



## ***INDUSTRIAL TOOLS FOR FABRICATION AND MAINTENANCE***

Atlas Copco power tools are an excellent choice for fabrication and maintenance operations in power generation, oil & gas, foundries & metalworking, shipbuilding, and mining.

***Atlas Copco***

# Sustainable productivity for heavy industry worldwide

Atlas Copco power tools are frequently used for fabrication and maintenance operations in industrial sectors, such as power generation, oil & gas, foundries & metal fabrication, shipbuilding, and mining.

We are leading the way within tool technology. Our tools offer outstanding power-to-weight ratios designed for maximum performance without sacrificing operator comfort and safety.

Most important of all, they are designed to help you achieve sustainable productivity with lowest possible operating costs.

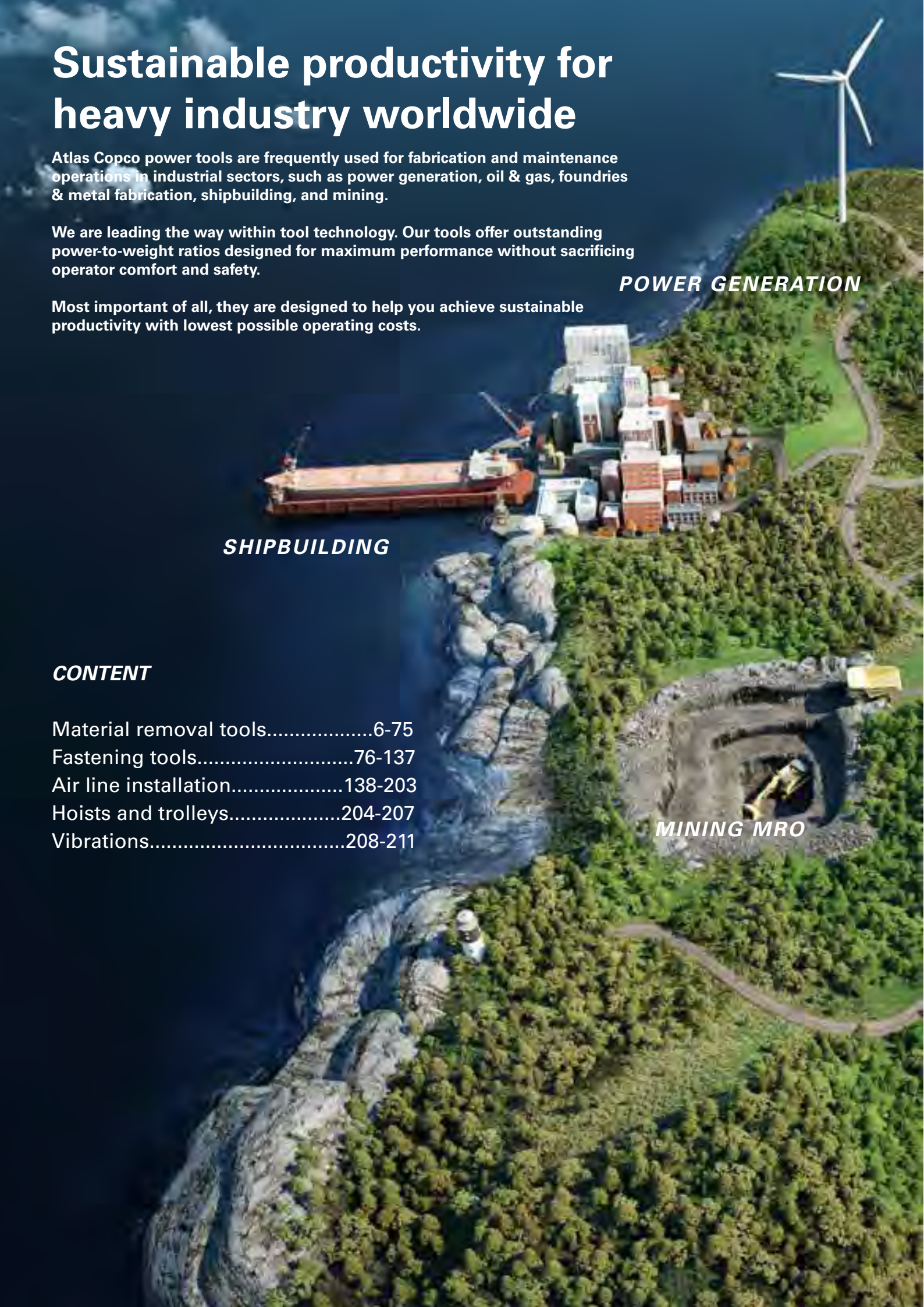
**POWER GENERATION**

**SHIPBUILDING**

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**MINING MRO**





***OIL & GAS***

***FOUNDRIES &  
METAL FABRICATION***



## **POWER GENERATION**

Atlas Copco power tools are used on a daily basis for equipment maintenance, repair and overhaul tasks. Our high load hydraulic equipment is an efficient solution for projects requiring high torque bolting tools.

Atlas Copco high productivity grinders are used in the production of turbine housings and our sanders and polishing tools are used to put a perfect aerodynamic finish on the blades of a wind turbine.



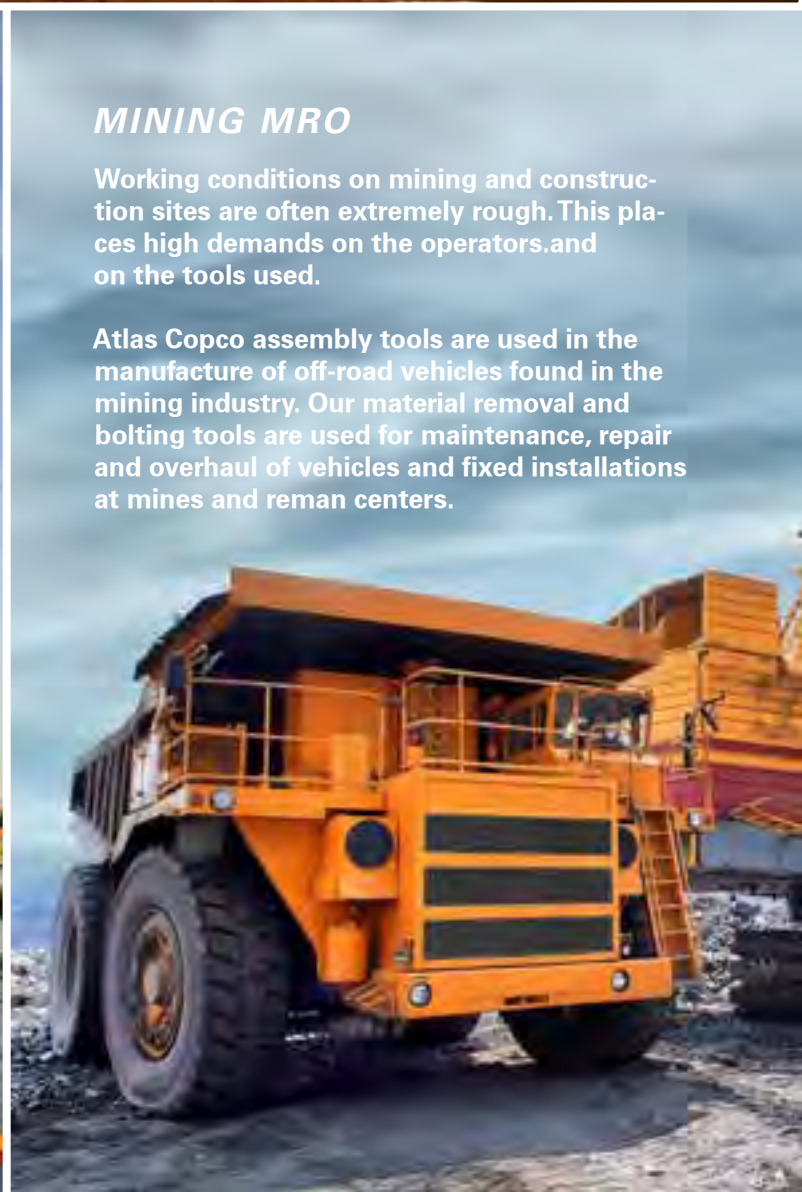
## **SHIPBUILDING**

Atlas Copco material removal and percussive tools make a significant contribution to productivity at shipyards, in particular for heavy tasks such as rough grinding and cutting off. Our bolting and assembly tools are used on a daily basis for heavy assembly, equipment maintenance, repair and overhaul.

## **MINING MRO**

Working conditions on mining and construction sites are often extremely rough. This places high demands on the operators, and on the tools used.

Atlas Copco assembly tools are used in the manufacture of off-road vehicles found in the mining industry. Our material removal and bolting tools are used for maintenance, repair and overhaul of vehicles and fixed installations at mines and reman centers.



## ***OIL & GAS***

Atlas Copco bolting, assembly, and material removal tools are used for production and maintenance in the oil and gas industry, both onshore and offshore.

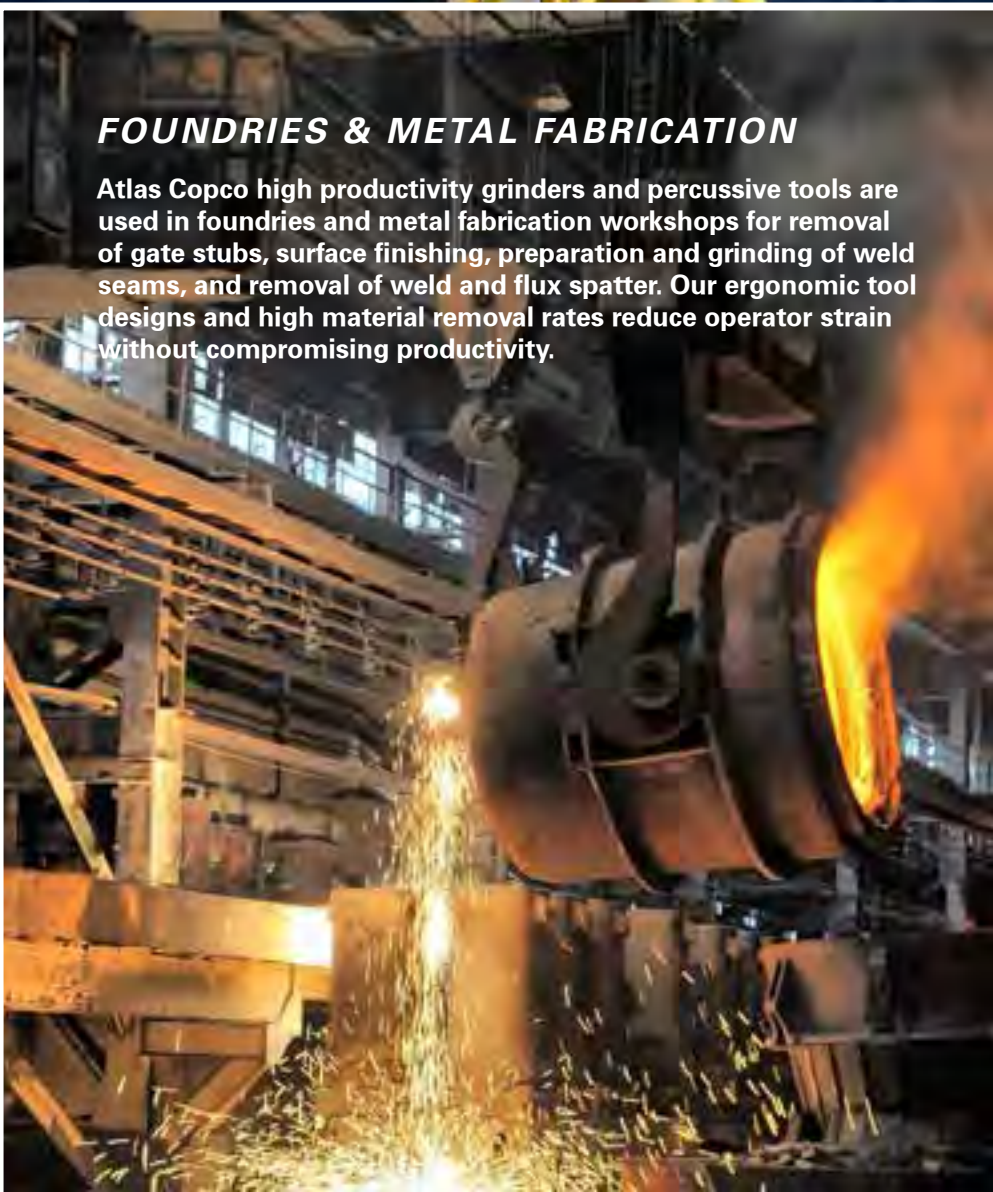
Our hydraulic tools are typically used for production and maintenance of ROV's (remote operated vehicles), top drives, derricks, and BOP's (blow out preventers).

Our assembly tools can be found at petrochemical plants, where they are used for turbines, compressors and heat exchangers. Atlas Copco high productivity grinders are used in cutting off applications for piping and in the production of pressure vessels.



## ***FOUNDRIES & METAL FABRICATION***

Atlas Copco high productivity grinders and percussive tools are used in foundries and metal fabrication workshops for removal of gate stubs, surface finishing, preparation and grinding of weld seams, and removal of weld and flux spatter. Our ergonomic tool designs and high material removal rates reduce operator strain without compromising productivity.





# ***MATERIAL REMOVAL TOOLS***

## ***CONTENT***

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# Rough Grinding and Cutting off



Working in a tough environment places high demands on the tools used and on the operator.

The high power-to-weight ratios of our tools make them comfortable to work with and gives you a superior material removal rate with minimum effort. They are powerful and built to last.

Our tools are available in all sizes and power outputs. Whether it's a small, one-handed angle grinder or a 4.5 kW machine, both offer you superior productivity.

Our range of grinders includes both vertical and straight versions to cover all needs in a rough grinding environment.



# Grinders

*Extreme productivity  
for cut-off and depressed center wheels*



GTG25

Extreme productivity grinders are suitable for all rough and heavy grinding tasks.

Our **GTG** models are powered by a motor with the latest turbine technology which gives extremely high power-to-weight ratios compared to normal vane motors. This means that you can select a lighter, more compact tool without sacrificing the material removal rate.

Compared to a vane motor, a turbine motor provides up to 40 percent more efficiency for the same specific job and at the same time reduces the total energy consumption.

**LSV** grinders have been optimized to get the highest power-to-weight ratio available for conventional vane motors.

They are developed to be durable with low service requirements.

**LSS** vertical grinders have a robust design and are suitable for rough grinding on open surfaces and cutting off operations.

All the tools are fitted with a speed governor as standard to ensure optimum process speed at all time.

Selected models offer an Autobalancer as standard that reduces unbalanced forces and, in turn, vibrations.



GTG40



LSV48



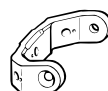
LSS64/84

Model	Max free speed r/min	Max output kW	Max wheel dia mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
GTG25 F120-13	12000	2.5	125	-	-	2.1	59	32	9	16	3/8"	8423 2525 01
GTG25 F085-18	8500	2.5	180	-	-	2.2	59	32	9	16	3/8"	8423 2525 02
GTG40 F085-18	8500	4.5	180	-	-	3.8	128	60	20	16	1/2"	8423 2900 10
GTG40 F066-23	6600	4.5	230	-	-	4.0	128	60	20	16	1/2"	8423 2910 10
LSV48 SA085-18	8500	1.9	180	M14	9	2.7	88	36	17	16	1/2"	8423 0132 06
LSV48 SA066-23	6600	1.9	230	UNC 5/8"	10	2.9	88	36	17	16	1/2"	8423 0132 08
LSS64 S085-18	8500	2.6	180	UNC 5/8"	32	4.7	201	50	13	16	1/2"	8423 2641 38
LSS64 S060-23	6000	2.2	230	UNC 5/8"	32	5.1	201	40	9	16	1/2"	8423 2641 46
LSS84 S060-23	6000	3.8	230	UNC 5/8"	32	6.0	217	65	17	19	1/2"	8423 2840 26

## Accessories

Accessories Extreme Productivity Grinders	GTG25	GTG40	LSV48	LSS64	LSS84
Flange depressed center wheel	4175 0777 90	4175 0194 90	4150 1160 02	-	-
Flange cut-off wheel	4175 0777 92	4175 0193 90	4150 1160 05	-	-
Flange nut	-	-	-	4170 0220 01	4170 0220 01
Flange nut kit	-	-	-	4170 0219 87	-
Flange nut, quick change Fixtec - M14	-	-	4150 1929 00	-	-
Adapter kit fiber disc	-	4175 0238 90	-	-	-
Support handle	4175 0705 90	4110 1355 88	4175 0868 82	4170 0619 00	-
Vibration damped handle	4150 1521 80	4150 1521 80	-	-	-
Positioner for support handle	-	4175 0164 90	-	-	-
MultiFlex	8202 1350 22	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60
Diamond cutting wheels					
Ø 125 mm	3780 5074 61	-	3780 5074 61	-	-
Ø 180 mm	3780 5074 62	3780 5074 62	3780 5074 62	3780 5074 62	-
Spot suction for diamond cutting blade					
Kit Ø 180 mm	-	-	3780 4093 42	-	-
Flange set (incl. in kit)	-	-	3780 2799 50	-	-
Spot suction kit for depressed center wheel					
Kit Ø 180 mm	-	-	3780 4093 41	-	-

### GTG40



Positioner for support handle

## Productivity Kits

Model	Air inlet BSP	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
MAXI F/R C-T16	1/2"	43 l/s	Turbo 16 mm	Claw	No	8202 0850 05
MAXI F/RD C-T20	1/2"	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Grinders

for cut-off and depressed center wheels, dia. 75-180 mm



LSV38

These grinders are used for general purpose grinding and cutting off in applications with high demands on productivity and ergonomics.

**LSV 19/28/38** grinders are ergonomically designed tools with high power-to-weight ratios. They can be used as one-handed angle grinders. Low vibrations and low noise levels mean that you can work with them all day without strain.

**LSS 53** vertical grinders have a robust design and are suitable for rough grinding on open surfaces and cutting off operations.

All tools are fitted with a speed governor as standard to ensure optimum process speed at all times. LSV38 models also include a version with an Autobalancer.



LSV19



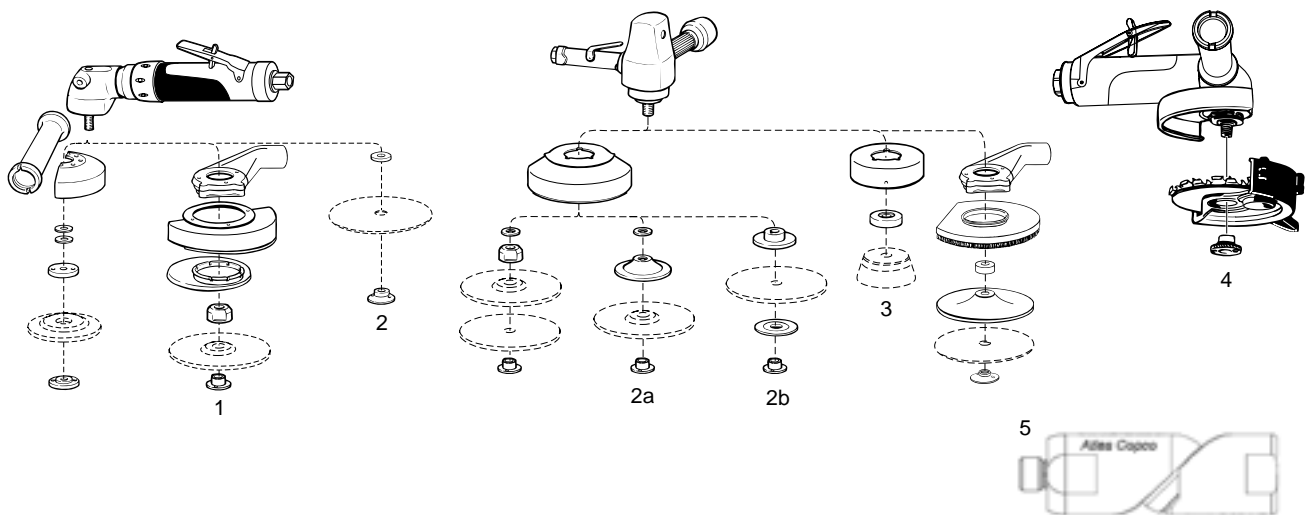
LSV28

Model	Max free speed r/min	Max output kW	Max wheel diameter mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
LSV19 S170-08	17000	0.45	80	UNF 3/8"	17	0.7	71	11.2	6.6	10	1/4"	8423 0111 40
LSV28 S060-18	6000	0.73	180	UNC 5/8"	32	2.5	87	16.0	7.3	10	3/8"	8423 0135 53
LSV28 ST12-10	12000	0.75	100	UNF 3/8"	17	1.7	80	17.4	7.5	10	3/8"	8423 0125 14
LSV28 ST12-12	12000	0.75	115	UNF 3/8"	17	1.7	80	17.4	7.5	10	3/8"	8423 0125 16
LSV28 ST12-13	12000	0.75	125	UNF 3/8"	17	1.7	80	17.4	7.5	10	3/8"	8423 0125 17
LSV28 ST13-10E	13000	0.75	100	UNF 3/8"	17	1.5	70	21.5	14.5	10	3/8"	8423 0125 29
LSV38 S12-125	12000	1.30	125	M14	12	1.6	89	28.0	15.0	13	3/8"	8423 0131 08
LSV38 ST12-125	12000	1.30	125	M14	12	1.8	89	28.0	15.0	13	3/8"	8423 0131 09
LSV38 SA12-125	12000	1.30	125	M14	10	2.0	89	28.0	15.0	13	3/8"	8423 0131 13
LSS53 S085-18	8500	1.4	180	UNC 5/8"	30	2.9	180	27.0	10.0	13	1/2"	8423 2530 72

## Accessories

Accessories Grinders	LSV19	LSV28	LSV38	LSS53	See illustration
Flange depressed center wheel kit	-	-	-	4170 0219 87	2a
Flange cut-off wheel kit	-	-	-	4170 1133 87	2b
Flange cup wheel kit (dia 125mm, incl. wheel guard)	-	-	-	4170 0664 80	3
Flange nut	-	-	4150 1160 02	4170 0758 01	-
Flange nut kit	4150 1158 80	4150 1160 80	-	-	-
Flange nut, quick change Fixtec - M14	-	-	4150 1929 00	-	-
Adapter for fitting flexible depressed center wheel (for LSV28 S060-18)	-	4170 0759 00	-	-	2
Support handle	-	4175 0868 80	4175 0868 80	-	-
Vibration damped handle	4150 1521 80	4150 1521 80	4150 1521 80	-	-
<b>Alu-Cut</b>					
Alu-Cut guard kit	-	-	4112 1161 90	-	4
Ø 125 mm carbide tipped cutter 2 mm thick (for cutting)	-	-	4112 1164 00	-	-
Ø 125 mm carbide tipped cutter 4 mm thick (for milling)	-	-	4112 1162 00	-	-
<b>Diamond cutting wheels</b>					
Ø 100 mm	-	3780 5074 00	-	-	-
Ø 125 mm	-	-	3780 5074 61	-	-
Ø 180 mm	-	-	-	3780 5074 62	-
<b>Spot suction for Diamond cutting wheel</b>					
Ø 125 mm (cutting depth 30 mm)	-	-	3780 4008 74	-	-
<b>Spot suction kit for depressed center wheel</b>					
Ø 125 mm wheel kit	-	3780 4008 70	3780 4008 73*	-	1
Adapter UNF 3/8" UNC 5/8" (incl. in kit)	-	4021 0457 00	-	-	-
Nut 5/8" (incl. in kit)	-	3780 2722 00	-	-	-
MultiFlex	8202 1350 20	8202 1350 22	8202 1350 24	8202 1350 60	5

\*Only for LSV38 D120



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12

# Grinders

for cut-off and depressed center wheels



G2511

**PRO** grinders are a popular choice for surface preparation in general industry. They are lightweight tools that deliver all the power you need, yet easy to handle.

For additional comfort they are equipped with a rubber handle grip and adjustable wheel guard. All grinders except the G2408-series are equipped with a speed governor to ensure the grinding wheel operates at optimum speed.

The vertical grinders are suitable for rough grinding and cutting off operations on open surfaces.



G2408-125



G2588

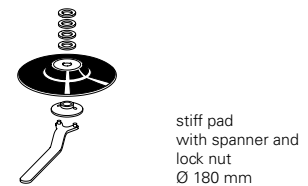
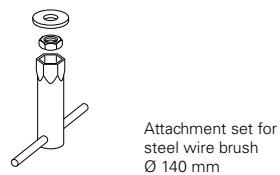
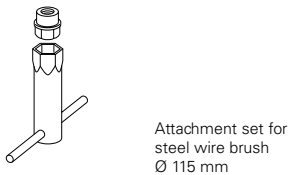
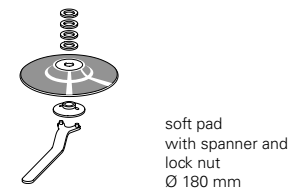
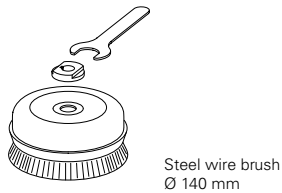


G2415

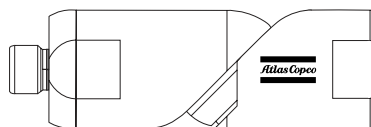
Model	Max free speed r/min	Max output kW	Max wheel dia mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
G2408-100	12000	0.35	100	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 60
G2408-115	12000	0.35	115	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 78
G2408-125	12000	0.35	125	UNF 3/8"	17	0.9	61	9	13	10	1/4"	8423 0314 80
G2511-125	12000	0.9	125	M14	18	1.8	61	20	17	13	3/8"	8423 0317 00
G2511-115	12000	0.9	115	M14	18	1.8	61	20	17	13	3/8"	8423 0317 01
G2511-100	13300	0.9	100	UNF 3/8"	17	1.8	61	20	17	13	3/8"	8423 0317 02
G2588-230-M14	6600	1.9	230	M14	17	2.4	88	36	17	16	1/2"	8423 0132 82
G2588-180-M14	8500	1.9	180	M14	14	2.4	88	36	17	16	1/2"	8423 0132 88
G2415	8500	1.1	180	UNC 5/8"	30	2.7	198	23	21	13	1/2"	8423 2522 49
G2416	6000	0.9	180	UNC 5/8"	30	2.7	198	30	18	13	1/2"	8423 2522 56
G2515	8400	1.3	180	UNC 5/8"	30	3.2	198	33	19	13	3/8"	8423 0316 05

# Accessories

Accessories Grinders	G2408	G2511	G2515	G2415	G2416	G2588
Flange depressed center wheel (incl. with tool)	-	-	-	4170 0219 87	4170 0219 87	-
Flange cut-off wheel (incl. with tool)	-	-	-	4170 1133 87	4170 1133 87	-
Flange nut	4150 1160 00	4150 1160 02	4112 3002 11	-	-	4150 1160 02
Flange nut, quick change Fixtec - M14		4150 1929 00				4150 1929 00
Support handle	4110 1355 85	4110 1355 85	4111 3002 97	4110 1355 87	4110 1355 87	4110 1355 85
Vibration damped handle	4150 1521 80	4150 1521 80	-	-	-	4150 1521 80
Cut-off kit	-	-	4112 1553 90	-	-	-
Soft pad Ø 180 mm	-	-	-	4170 0756 80	4171 0756 80	-
Stiff pad Ø 180 mm	-	-	-	4170 0757 80	4171 0757 80	-
Steel wire brush Ø 115 mm for 5/8" spindle	-	-	-	-	4170 0491 00	-
Steel wire brush Ø 140 mm for 5/8" spindle	-	-	-	-	4170 0685 00	-
Attachment set for Ø 115 mm wire brush	-	-	-	-	4170 0459 81	-
Attachment set for Ø 140 mm wire brush	-	-	-	-	4170 0550 80	-
MultiFlex	8202 1350 20	8202 1350 22	8202 1350 22	8202 1350 24	8202 1350 24	8202 1350 24



MultiFlex



# Grinders

for cup wheels & wire brushes



GTG40

For rough grinding on open surfaces with cup wheels or wire brushes. Applications of this type call for tools with high power outputs.

**GTG40** is powered by a turbine motor, which gives an extremely high power-to-weight ratio compared to a vane motor. In addition, the efficiency of a turbine motor is much higher and reduces energy consumption for the same specific job by up to 40% compared to a conventional vane grinder.

**LSS** vertical grinders have a rigid design that gives reliability and long service intervals.



LSS64



LSS64

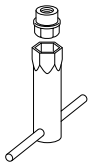
Model	Max free speed r/min	Max output kW	Max cup wheel diameter mm	Max brush diameter mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
GTG40 S060	6000	4.5	-	140	UNC 5/8"	23	3.6	132	60	20	16	1/2"	8423 2930 00
GTG40 S060-C15	6000	4.5	150	-	UNC 5/8"	16	4.3	126	60	20	16	1/2"	8423 2930 10
LSS53 S060	6000	1.2	-	115	UNC 5/8"	30	2.3	180	24	7	13	1/2"	8423 2530 23
LSS53 S060-M14	6000	1.2	-	115	M14	31	2.3	180	24	7	13	1/2"	8423 2530 27
LSS53 S072-C13	7200	1.3	125	-	UNC 5/8"	30	3.1	180	26	8	13	1/2"	8423 2534 12
LSS64 S060-C15	6000	2.2	150	140	UNC 5/8"	31	5.0	201	40	9	16	1/2"	8423 2641 04

## Accessories

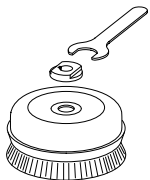
Accessories Grinders	GTG40	LSS53	LSS64	See illustration
Support handle	4110 1355 88	-	4170 0619 00	1
Vibration damped handle	4150 1521 80	-	-	-
Adapter kit for fiber disc	4175 0238 90	-	-	-
Steel wire brush Ø115 mm for 5/8" spindle	-	4170 0491 00	4170 0491 00	-
Steel wire brush Ø140 mm for 5/8" spindle	-	4170 0685 00	4170 0685 00	-
Attachment set for Ø115 mm wire brush	-	4170 0459 81	4170 0459 81	-
Attachment set for Ø140 mm wire brush	-	4170 0550 80	4170 0550 80	-
Attachment set for cup wheel with plane hole	4175 0178 90	-	-	-
Wheel friction plate	4175 0186 90	-	-	-
Flange kit for depressed center wheel	-	4170 0219 87	4171 0219 87	2a
Flange kit for cut off wheel	-	4170 1133 87	-	2b
Flange kit for cup wheel (Ø125mm, incl. wheel guard)	-	4170 0664 80	-	3
Flange kit for cup wheel (Ø150mm, incl. wheel guard)	-	-	4170 0652 80	3
MultiFlex	8202 1350 60	8202 1350 60	8202 1350 60	4



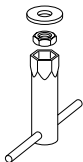
Steel wire brush  
Ø 115 mm



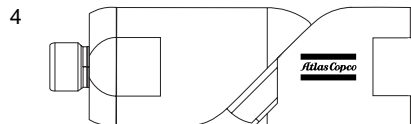
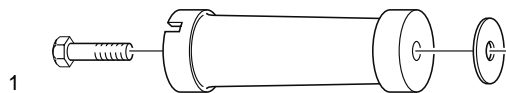
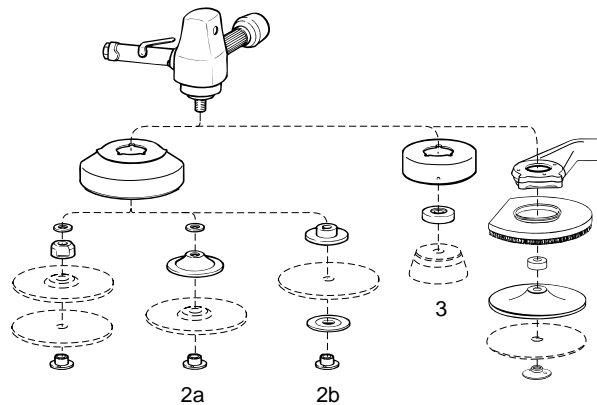
Attachment set for  
steel wire brush  
Ø 115 mm



Steel wire brush  
Ø 140 mm



Attachment set for  
steel wire brush  
Ø 140 mm



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12
MAXI F/R C-T16	1/2"	43 l/s	Turbo 16 mm	Claw	No	8202 0850 05
MAXI F/RD C-T20	1/2"	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Straight Grinders

## for straight wheels

Straight grinders are normally used when grinding inside larger cavities or on open surfaces.

**GTR 40** is the most powerful straight grinder in our range. The power of the turbine makes it one of the best in its class.

**LSR 43/48/64** tools are durable and ideal for tougher applications. The LSR 48 has an Autobalancer as standard to minimize vibrations.

**LSR 28** is for lighter applications where accessibility is the first priority. A highly efficient dampening system minimizes vibration.



GTR40



LSR28



LSR43



LSR48

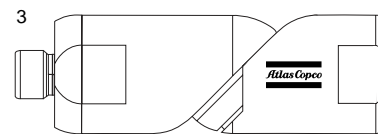
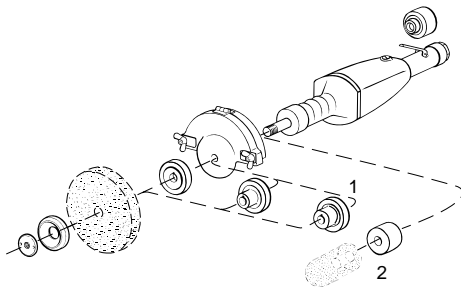


LSR64

Model	Max free speed r/min	Max output kW	Max wheel diameter mm	Max brush dia mm	Length mm	Weight kg	Spindle thread	Spindle length mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
GTR40 S060-15	6000	4.5	150	-	563	5.8	UNC 5/8"	22	60.0	20.0	16	1/2"	8423 2952 00
GTR40 S060-20	6000	4.5	200	-	563	5.8	UNC 5/8"	22	60.0	20.0	16	1/2"	8423 2954 00
GTR40 S072-13	7200	4.5	125	-	563	5.6	UNC 5/8"	22	60.0	20.0	16	1/2"	8423 2951 00
GTR40 S085-15	8500	4.5	150	-	563	5.6	UNC 5/8"	22	60.0	20.0	16	1/2"	8423 2950 00
LSR28 S110-08	11000	0.62	80	-	340	1.9	UNF 3/8"	42	15.8	3.6	13	1/2"	8423 1325 03
LSR28 S150-10	15000	0.70	100	-	340	2.2	UNC 1/2"	42	18.0	5.8	13	1/2"	8423 1325 02
LSR28 S180-05	18000	0.82	50	-	340	1.9	UNF 3/8"	42	19.8	7.3	13	1/2"	8423 1325 04
LSR43 S090-10	9000	0.8	100	-	460	2.4	UNC 1/2"	49	18.0	5.0	13	1/2"	8423 1430 18
LSR43 S120-08	12000	0.9	80	-	460	2.5	UNC 1/2"	49	20.0	7.0	13	1/2"	8423 1430 26
LSR43 S150-10	15000	1.0	100	-	460	2.8	UNC 1/2"	49	23.0	10.0	13	1/2"	8423 1430 34
LSR48 S090-10	9000	1.5	100	-	495	3.2	UNC 1/2"	37	28.0	11.0	16	1/2"	8423 1430 02
LSR48 S120-08	12000	1.8	80	-	498	3.0	UNC 1/2"	37	30.0	13.0	16	1/2"	8423 1430 04
LSR48 S120-10	12000	1.8	100	-	495	3.5	UNC 5/8"	49	30.0	13.0	16	1/2"	8423 1430 09
LSR48 S120-13	12000	1.8	125	-	487	3.6	UNC 5/8"	42	30.0	13.0	16	1/2"	8423 1430 06
LSR48 S150-10	15000	2.0	100	-	499	3.5	UNC 5/8"	42	35.0	19.0	16	1/2"	8423 1430 07
LSR64 S060-15	6000	2.3	150	-	535	5.4	UNC 5/8"	55	41.0	11.0	16	1/2"	8423 1640 22
LSR64 S072-13	7200	2.5	125	-	535	5.4	UNC 5/8"	55	45.0	14.0	16	1/2"	8423 1640 30
LSR64 S100-15	10000	2.9	150	-	535	5.8	UNC 5/8"	55	53.0	26.0	16	1/2"	8423 1640 55
<b>For wire brushes</b>													
LSR64 S041	4100	1.6	-	140	535	5.4	UNC 5/8"	55	29.0	7.0	16	1/2"	8423 1640 14

## Accessories

Model	GTR40	LSR28	LSR43	LSR64	See illustration
Rear flange for 125-150x25x32 mm wheel	-	-	-	4150 0620 00	1
Rear flange for 50-100x13x20 mm wheel	-	4150 1271 01	-	-	1
Rear flange for 50-100x25x20 mm wheel	-	4150 1271 02	-	-	1
Rear flange for 50-100x13x25 mm wheel	-	4150 1271 03	-	-	1
Rear flange for 50-100x25x25 mm wheel	-	4150 1271 04	-	-	1
Rear flange for 50-100x20x20 mm wheel	-	4150 1271 05	-	-	1
Rear flange for 20-25x16 mm wheel	4150 0619 00	-	-	-	1
Rear flange for 20-25x20 mm wheel	4150 1650 00	-	-	-	1
Rear flange for 20-25x32 mm wheel	4150 0620 00	-	-	-	1
Spacer for cone wheel	4150 0787 00	-	-	4150 0787 00	2
Steel wire brush Ø115 mm for 5/8" spindle	-	-	-	4170 0491 00	-
Steel wire brush Ø140 mm for 5/8" spindle	-	-	-	4170 0685 00	-
Attachment set for Ø115 mm wire brush	-	-	-	4170 0459 81	-
Attachment set for Ø140 mm wire brush	-	-	-	4170 0550 80	-
MultiFlex	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60	3



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12
MAXI F/R C-T16	1/2"	43 l/s	Turbo 16 mm	Claw	No	8202 0850 05
MAXI F/RD C-T20	1/2"	75 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Straight Grinders

for cone wheels



LSR38 CW

Straight grinders with cone wheels or collets are suitable for grinding or smoothing of edges, welds, holes and cavities.

**LSR 43/48** tools are durable and ideal for tougher applications. The LSR 48 has an Autobalancer as standard to minimize vibrations.

**LSR 28/38** is for lighter applications where accessibility and finish are first priority.



LSR28 CW



LSR48 CW



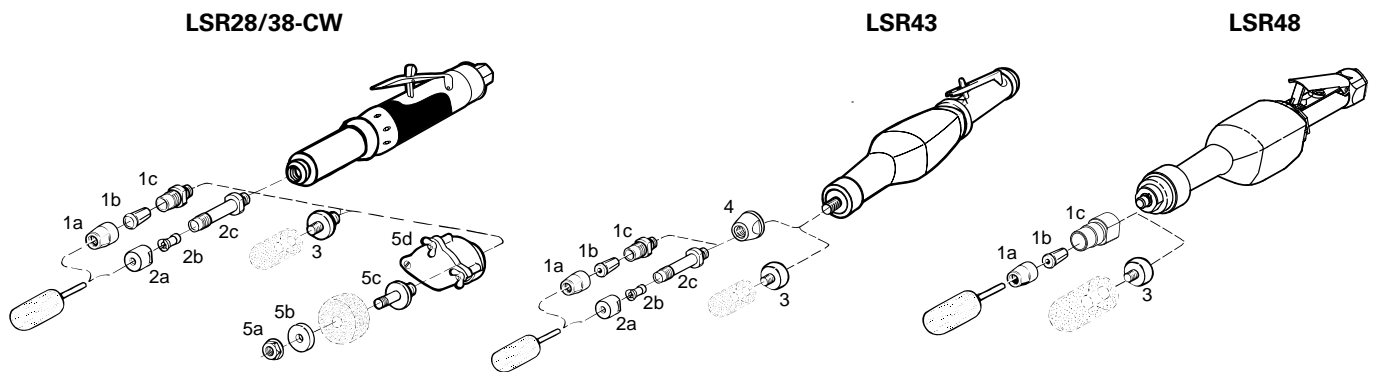
LSR43 CW

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
LSR28 S120-CW	12000	0.7	304	1.2	16	4	13	3/8"	8423 1325 05
LSR28 S150-CW	15000	0.7	304	1.2	18	6	13	3/8"	8423 1325 06
LSR38 S150-CW	15000	1.25	323	1.5	24	13	13	3/8"	8423 1232 31
LSR38 S180-CW	18000	1.35	323	1.5	28	15	13	3/8"	8423 1232 30
LSR43 S120-30	12000	0.9	438	2.0	20	7	13	1/2"	8423 1432 24
LSR43 S150-30C	15000	1.0	503	2.1	23	10	13	1/2"	8423 1432 33
LSR48 S090-CW	9000	1.5	450	2.3	28	11	16	1/2"	8423 1430 03
LSR48 S120-CW	12000	1.8	450	2.3	30	13	16	1/2"	8423 1430 05
LSR48 S150-CW	15000	2.0	450	2.3	35	19	16	1/2"	8423 1430 08

# Accessories

Model	LSR28	LSR38	LSR43	LSR48	See illustration
<b>Adapter for cone with with thread</b>					
UNC/W 3/8"	4150 0318 00	4150 0318 00	4150 0943 00	-	3
UNF 3/8"	4150 0318 01	4150 0318 01	4150 0943 01	-	3
UNC 1/2"	4150 1357 00	4150 1357 00	4150 0944 00	-	3
UNC/W 5/8"	4150 0767 00	4150 0767 00	4150 0945 00	4150 0945 01	3
<b>Collet type short</b>					
Nut	4150 0849 00	4150 0849 00	4150 0849 00	4150 0849 00	1a
Collet Ø 6 mm	4150 1453 00	4150 1453 00	4150 1453 00	4150 1453 00	1b
Collet Ø 8 mm	4150 0706 00	4150 0706 00	4150 0706 00	4150 0706 00	1b
Collet Ø 9 mm	4150 0765 00	4150 0765 00	4150 0765 00	4150 0765 00	1b
Collet Ø 10 mm	4150 0681 00	4150 0681 00	4150 0681 00	4150 0681 00	1b
Collet Ø 1/4"	4150 1754 00	4150 1754 00	4150 1754 00	4150 1754 00	1b
Collet holder short	4150 0680 00	4150 0680 00	4150 0680 00	4150 0680 00	1c
<b>Collet type long</b>					
Nut	4150 0221 00	4150 0221 00	4150 0221 00	-	2a
Collet Ø 6 mm	4150 0222 00	4150 0222 00	4150 0222 00	-	2b
Collet Ø 8 mm	4150 0325 00	4150 0325 00	4150 0325 00	-	2b
Collet Ø 1/4"	4150 0223 00	4150 0223 00	4150 0223 00	-	2b
Collet holder long 90 mm	4150 0441 00	4150 0441 00	4150 0441 00	-	2c
Collet holder long 45 mm	4150 0211 00	4150 0211 00	-	-	2c
Adapter to mount collet holder on tool			4150 0861 00	-	4
<b>For use with Straight wheels</b>					
Nut	0266 2111 00	0266 2111 01	-	-	5a
Flange	4106 5938 00	4106 5938 00	-	-	5b
Rear flange for 50-100x25x20 mm wheel	-	-	4150 0881 00	-	-
Holder for 50x19x10 mm wheels	4150 0212 00	4150 0212 00	-	-	5c
Holder for 50x13x10 mm wheels	4150 1145 00	4150 1145 00	-	-	5c
Wheel guard	4150 1299 81	4150 1299 81	-	-	5d
MultiFlex	8202 1350 22	8202 1350 22	8202 1350 24	8202 1350 60	-

NOTE: Adapters are not included with the tool, and need to be ordered to attach a cone wheel.



# Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12

# Die Grinding



Atlas Copco die grinders are available in straight or angle versions in a wide range of sizes and power outputs.

All the tools fulfil the highest standards and requirements in terms of ergonomics, accessibility and productivity.

Like all Atlas Copco tools, they are easy to work with and built to last.



# Die Grinders

up to 510 watt



LSF19

Die grinders are an excellent choice for high quality finishing and surface preparation in applications where accessibility is your first priority.

Atlas Copco die grinders are high quality tools with compact, ergonomic designs that offer excellent accessibility.

**LSF12/19** are straight models, ergonomically designed for operator comfort and equipped with a speed governor for optimum process speed. LSF 19 models are available in scatter damping versions, which give improved life length of burrs and reduce vibrations for the operator.

**LSV12/19** are angle versions with the same features as the straight models.

**LSF07** is a high-speed pencil-type tool for precision grinding and polishing.



LSV12



LSV19



LSF07



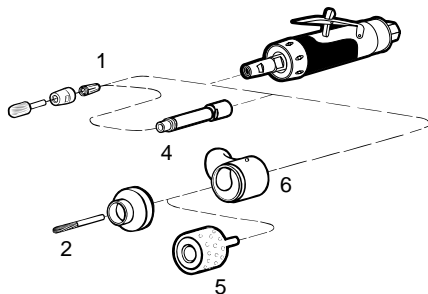
LSF12

Model	Max free speed r/min	Max output kW	Collet size mm	Length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Scatter damped	Ordering No.
<b>Straight die grinders</b>											
LSF12 S200-1	20000	0.24	6	170	0.36	8.1	2.6	8	1/4"	-	8423 1124 01
LSF12 S250-1	25000	0.29	6	170	0.36	8.5	3.4	8	1/4"	-	8423 1124 02
LSF12 S310-1	31000	0.32	6	170	0.36	9.2	4.2	8	1/4"	-	8423 1124 03
LSF12 S400-1	40000	0.36	6	170	0.36	9.8	7.0	8	1/4"	-	8423 1124 04
LSF19 S200-1	20000	0.5	6	193	0.5	9.6	3.5	10	1/4"	●	8423 1224 80
LSF19 S200-2	20000	0.5	1/4"	193	0.5	9.6	3.5	10	1/4"	●	8423 1224 83
LSF19 S300-1	30000	0.5	6	193	0.5	11.3	6.6	10	1/4"	●	8423 1224 81
LSF19 S300-2	30000	0.5	1/4"	193	0.5	11.3	6.6	10	1/4"	●	8423 1224 84
LSF19 S300-1/R	30000	0.5	6	193	0.5	11.3	6.6	10	1/4"	-	8423 1224 89
LSF19 S460-1	46000	0.5	6	193	0.5	11.4	15	10	1/4"	●	8423 1224 82
<b>Straight extended die grinders</b>											
LSF19 S200E-1	20000	0.5	6	293	0.7	9.6	3.5	10	1/4"	●	8423 1224 85
LSF19 S300E-1	30000	0.5	6	293	0.7	11.3	6.6	10	1/4"	●	8423 1224 86
LSF19 S300E-1/R	30000	0.5	6	293	0.7	11.3	6.6	10	1/4"	-	8423 1224 88
LSF19 S460E-1	46000	0.5	6	293	0.7	11.4	15	10	1/4"	●	8423 1224 87
LSF19 S460E-1/R	46000	0.5	6	293	0.7	11.4	15	10	1/4"	-	8423 1224 90
<b>Angle die grinders</b>											
LSV12 S120-1	12000	0.24	6	166	0.54	8.3	3.0	8	1/4"	-	8423 1124 05
LSV12 S200-1	20000	0.29	6	166	0.54	9.5	6.4	8	1/4"	-	8423 1124 06
LSV19 S080-1	8000	0.37	6	185	0.6	11.3	6.5	10	1/4"	-	8423 0111 46
LSV19 S120-1	12000	0.46	6	185	0.6	11.3	7.5	10	1/4"	-	8423 0111 43
LSV19 S200-1	20000	0.46	6	185	0.6	11.3	7.5	10	1/4"	-	8423 0111 41
<b>High speed pen</b>											
LSF07 S850	88000	0.10	3	173	0.4	2.2	2.3	4.5	-	-	8423 1222 03

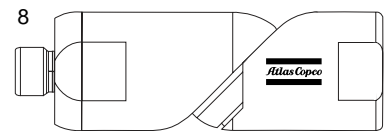
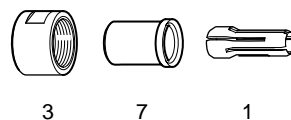
R=Rigid mount

## Accessories

Model	LSF07	LSF/LSV12	LSF/LSV19	See illustration
<b>Collets</b>				
Collet Ø 1/8"	4150 1822 00	4150 2226 46	4150 0082 00	1
Collet Ø 1/4"	-	4150 2226 03	415 0076 00	1
Collet Ø 3/16"	-	4150 2226 48	4150 0649 00	1
Collet Ø 5/16"	-	-	4150 0074 00	1
Collet Ø 3 mm	-	-	4150 0081 00	1
Collet Ø 5 mm	-	-	4150 0075 01	1
Collet Ø 6 mm	-	4150 2226 03	4150 0075 00	1
Collet Ø 8 mm	-	-	4150 0074 00	1
Collar	-	4150 2226 02	-	7
Collet nut	-	4150 2226 04	4150 0760 00	3
Extension 75 mm (3"). Only for rigid (-R) models	-	-	4150 0674 00	4
<b>For machining of plastic and glass fibre</b>				
Spot suction kit burr (burr not included)	-	3780 3015 23	3780 3015 22	6
Diamond burr Ø 6 mm	-	3780 5013 70	3780 5013 70	2
Spot suction kit drum (drum not included). For use with 6 mm collet	-	-	3780 4011 61	6
Diamond drum Ø 27 mm	-	-	3780 5033 00	5
MultiFlex	-	8202 1350 20	8202 1350 20	8



Only for LSF07 and LSF/LSV12



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

# Die Grinders

up to 510 watt



LSF28

In applications where you want more power but still need accessibility, these die grinders will be your first choice.

**LSF 28/38** die grinders are designed with focus on power and productivity. The tools are equipped with a speed governor for optimum process speed. They are available in scatter damping versions, which give improved life length of burrs and reduced vibrations for the operator.



LSF28 E



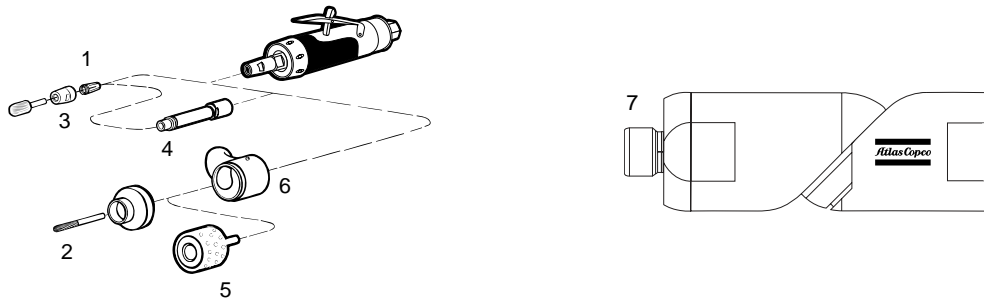
LSF38

Model	Max free speed r/min	Max output kW	Collet size mm	Length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Scatter damped	Ordering No.
<b>Straight die grinders</b>											
LSF28 ST030	3000	0.67	6	257	1.2	18.0	8.6	10	3/8"	●	8423 1235 63
LSF28 ST070	7000	0.76	6	257	1.2	18.9	12.4	10	3/8"	●	8423 1235 66
LSF28 S120	12000	0.66	6	213	0.8	13.8	4.0	10	3/8"	●	8423 1235 67
LSF28 S150	15000	0.70	6	213	0.8	15.0	5.5	10	3/8"	●	8423 1235 64
LSF28 S180	18000	0.82	6	213	0.8	17.4	11.0	10	3/8"	●	8423 1235 04
LSF28 S180-1R	18000	0.82	6	213	0.8	17.4	7.0	10	3/8"	-	8423 1235 41
LSF28 S250	25000	0.86	6	213	0.8	18.5	11.0	10	3/8"	●	8423 1235 11
LSF28 S250-R	25000	0.86	6	213	0.8	18.5	11.0	10	3/8"	-	8423 1235 48
<b>Straight extended die grinders</b>											
LSF28 ST030E	3000	0.67	6	383	1.8	18.0	8.6	10	3/8"	●	8423 1235 62
LSF28 ST070E	7000	0.76	6	383	1.8	18.9	12.4	10	3/8"	●	8423 1235 65
LSF28 S150E	15000	0.70	6	338	1.3	15.0	4.3	10	3/8"	●	8423 1235 61
LSF28 S180E	18000	0.82	6	338	1.3	17.4	7.0	10	3/8"	●	8423 1235 05
LSF28 S180E-1R	18000	0.82	6	338	1.3	17.4	7.0	10	3/8"	-	8423 1235 42
LSF28 S250E-R	25000	0.86	6	338	1.3	18.5	11.0	10	3/8"	-	8423 1235 49
LSF28 S250E	25000	0.86	6	338	1.3	18.5	11.0	10	3/8"	●	8423 1235 60
LSF38 S150E-01/R	15000	1.25	6	356	1.5	24.0	13.0	13	3/8"	-	8423 1231 14
LSF38 S180E-01/R	18000	1.35	6	356	1.5	28.0	15.0	13	3/8"	-	8423 1231 15
LSF38 S180E-01	18000	1.35	6	356	1.5	28.0	15.0	13	3/8"	●	8423 1231 16
LSF38 S250E-01	25000	1.35	6	356	1.5	28.0	25.0	13	3/8"	●	8423 1231 17
<b>Angle die grinders</b>											
LSV28 S150	15000	0.68	6	250	1.2	17.0	8.3	10	3/8"	-	8423 0125 54

R=Rigid mount

## Accessories

Model	LSF/LSV28	LSF38	See illustration
<b>Collets</b>			
Collet Ø 1/4"	4150 0076 00	4150 1754 00	1
Collet Ø 3 mm	4150 0081 00	-	1
Collet Ø 6 mm	4150 0075 00	4150 1453 00	1
Collet Ø 8 mm	4150 0074 00	4150 0706 00	1
Collet Ø 9 mm	-	4150 0765 00	1
Collet Ø 10 mm	-	4150 0681 00	1
Collet nut	4150 0760 00	4150 0849 00	3
Extension 75 mm (3"). Only for rigid (-R) models	4150 0674 00	-	4
<b>For machining of plastic and glass fiber</b>			
Spot suction kit burr (burr not included)	3780 4007 42	-	6
Diamond burr Ø 6 mm	3780 5013 70	-	2
Spot suction kit drum (drum not included). For use with 6 mm collet	3780 4011 73	-	6
Diamond drum Ø 52 mm	3780 5035 00	-	5
MultiFlex	8202 1350 22	8202 1350 24	7



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12

# Die Grinders



G2414

PRO die grinders are robust tools for grinding and finishing work in general industry.

**G2414/G2424** are available in scatter damping versions for improved life length of burrs and to reduce vibrations and scatter. They are also equipped with speed governors for optimal process speed.

Extreme working conditions place high demands on tools being used. We offer G2417/G2427 with a heavy duty, all-steel body that will fulfil these requirements.

**G2451** is a lightweight, high-speed die grinder for light grinding and precision work.



G2412-1



G2422-1



G2424

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Collet size		Ordering No.	
									6 mm	1/4"		
<b>Straight die grinders</b>												
G2412-1	20000	0.35	178	0.5	10.3	13.0	10	1/4"	•	•	8423 0312 21	
G2414-S085	8500	0.50	215	0.8	13.0	4.2	10	3/8"	•	•	8423 0312 58	
G2414 S120	12000	0.75	215	0.8	16.0	5.3	10	3/8"	•	•	8423 0312 57	
G2414 S150	15000	0.85	215	0.8	18.0	7.2	10	3/8"	•	•	8423 0312 56	
G2414 S200	20000	0.90	215	0.8	19.0	9.0	10	3/8"	•	•	8423 0312 30	
G2414 S250	25000	0.95	215	0.8	21.0	14.5	10	3/8"	•	•	8423 0312 29	
G2417-S120	12000	0.66	213	1.2	13.8	4.0	10	3/8"	•	-	8423 0312 84	
G2417-S180	18000	0.82	213	1.2	17.4	7.0	10	3/8"	•	-	8423 0312 83	
G2417-S250	25000	0.86	213	1.2	18.5	11.0	10	3/8"	•	-	8423 0312 82	
<b>Straight extended die grinders</b>												
G2422-1	20000	0.35	277	0.7	10.3	13.0	10	1/4"	•	•	8423 0312 47	
G2424-S085	8500	0.44	315	1.0	13.0	4.2	10	3/8"	•	•	8423 0312 61	
G2424 S120	12000	0.70	315	1.0	16.0	5.3	10	3/8"	•	•	8423 0312 60	
G2424 S150	15000	0.75	315	1.0	18.0	7.2	10	3/8"	•	•	8423 0312 59	
G2424 S200	20000	0.85	315	1.0	19.0	9.0	10	3/8"	•	•	8423 0312 55	
G2424 S250	25000	0.90	315	1.0	21.0	14.5	10	3/8"	•	•	8423 0312 62	
G2427-S250	25000	0.86	338	1.6	18.5	11.0	10	3/8"	•	-	8423 0312 86	
G2427-S180	18000	0.86	338	1.6	18.5	11.0	10	3/8"	•	-	8423 0312 87	
G2427-S120	12000	0.86	338	1.6	18.5	11.0	10	3/8"	•	-	8423 0312 88	
<b>Straight low speed die grinder</b>												
G2440	4300	0.55	216	0.9	5.7	7.0	10	1/4"	•	•	8423 0312 20	
<b>Angled die grinder</b>												
G2445	15000	0.26	188	0.7	6.7	8.3	10	1/4"	•	•	8423 0312 80	



G2451

**G2451** is a lightweight, high-speed die grinder for light grinding and precision work. It has a robust aluminum housing with a plastic cover and comes with an exhaust air hose.

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air consumption at free speed l/s	Collet size mm	Rec hose size mm	Air inlet thread BSP	Collet size		Ordering No.
									3 mm	1/8"	
G2451	80000	0.080	140	0.48	2.7	3	5	1/4"	•	•	8423 0313 01

Hose included

## Accessories

### Collet complete

For model G2412, G2414, G2422, G2424	Ordering No.	For model G2451	Ordering No.
3 mm	4150 1049 81	3 mm	4112 1380 00*
6 mm	4150 1049 83*	1/8"	4112 1381 00*
8 mm	4150 1049 84	1/12"	4112 1381 01
1/8"	4150 1049 85	*Collet included with tool	
1/4"	4150 1049 88*		

\*Collet included with tool

## Productivity Kits

### For screwdrivers, drills and grinders

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15
<b>For grinders and nutrunners with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
<b>For grinders and nutrunners with 1/2" BSP air inlet</b>					
MIDI Optimizer F/R EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

# Sanding and Polishing



Atlas Copco handheld sanders are available in a range of different versions for all type of jobs. From extreme productivity sanding to fine grit sanding for the finest possible surface finish.

Our sanders are suitable for use with all types of abrasives, from dry sanding to wet sanding, from paper to wire brushes, and polishing with velcro pads or lambswool. We also offer belt sanders in our range. Our tools have user-friendly ergonomic designs with high power-to-weight ratios, an autobalancer that reduces vibrations, and good accessibility to the workpiece.

The range includes sanders equipped with dust extraction to lower the operator's exposure to dust.



# Angle Sanders

for fiber discs, 50–75 mm



LSV19

These sanders are suitable for applications with high demands on surface finish and requiring tools offering good accessibility.

**LSV12/19** sanders are a good choice for this type of finer work. For operator comfort the tools are ergonomically designed with the option of dust extraction. All tools are available with either a collet or a threaded spindle and a speed governor for optimal process speed.



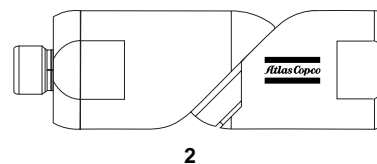
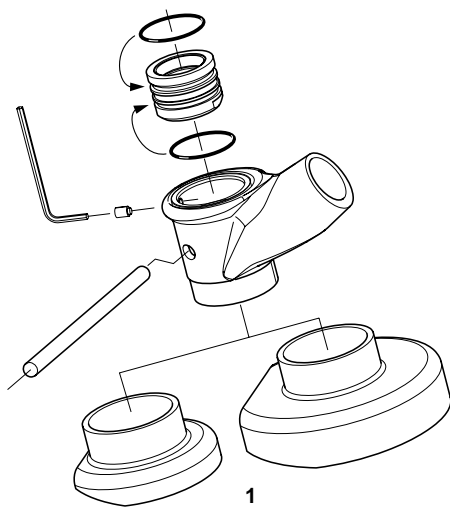
LSV12

Model	Max free speed r/min	Max output kW	Rec pad size dia mm	Collet size mm	Spindle thread	Spindle length mm	Length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
<b>With collet</b>														
LSV12 S120-1	12000	0.24	75	6	-	-	166	0.5	76	8.3	3.0	8	1/4"	8423 1124 05
LSV12 S200-1	20000	0.29	50	6	-	-	166	0.5	76	9.5	6.4	8	1/4"	8423 1124 06
LSV19 S080-1	8000	0.37	75	6	-	-	185	0.6	79	11.3	6.5	10	1/4"	8423 0111 46
LSV19 S120-1	12000	0.46	75	6	-	-	185	0.6	79	11.3	7.5	10	1/4"	8423 0111 43
LSV19 S200-1	20000	0.46	50	6	-	-	185	0.6	79	11.3	7.5	10	1/4"	8423 0111 41
<b>With threaded spindle</b>														
LSV12 S120	12000	0.24	75	-	UNC 1/4"	8	166	0.5	58	8.3	3.0	8	1/4"	8423 1124 07
LSV12 S200	20000	0.24	50	-	UNC 1/4"	8	166	0.5	58	8.3	3.0	8	1/4"	8423 1124 08
LSV19 S080	8000	0.37	75	-	UNC 1/4"	8	185	0.6	58	11.3	6.5	10	1/4"	8423 0111 45
LSV19 S120	12000	0.46	75	-	UNC 1/4"	8	185	0.6	58	11.3	7.5	10	1/4"	8423 0111 44
LSV19 S200	20000	0.46	50	-	UNC 1/4"	8	185	0.6	58	11.3	7.5	10	1/4"	8423 0111 42

Backing pad not included

## Accessories

Model	LSV12	LSV19	See illustration
<b>Collets</b>			
Collet Ø 1/8"	4150 2226 46	4150 0082 00	-
Collet Ø 1/4"	4150 2226 03	4150 0076 00	-
Collet Ø 3/16"	4150 2226 48	4150 0649 00	-
Collet Ø 5/16"	-	4150 0074 00	-
Collet Ø 3 mm	-	4150 0081 00	-
Collet Ø 5 mm	-	4150 0075 01	-
Collet Ø 6 mm	4150 2226 03	4150 0075 00	-
Collet Ø 8 mm	-	4150 0074 00	-
Collar	4150 2226 02	-	-
Collet nut	4150 2226 04	4150 0760 00	-
Extension 75 mm (3"). Only for rigid (-R) models	-	4150 0674 00	-
<b>Spot suction kit for fibre disc</b>			
Ø 50-75 mm pad (for model with collet)	3780 4092 64	3780 4092 62	1
Ø 50-75 mm pad (for model with threaded spindle)	-	3780 4092 65	1
MultiFlex	8202 1350 20	8202 1350 20	2



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

# Sanders

*Extreme productivity  
for fiber discs, dia. 180-230 mm*



GTG40

Atlas Copco extreme productivity sanders are durable with all-aluminum housings that make them suitable for the toughest working environments.

**GTG** sanders are powered by turbine technology which gives extremely short process times due to high power-to-weight ratios.

**LSV48** is our most powerful angle vane sander with 1.9 kW of power for extreme productivity.

All the tools have a speed governor to ensure optimum process speed and an Autobalancer to reduce vibrations.



LSV48



GTG25

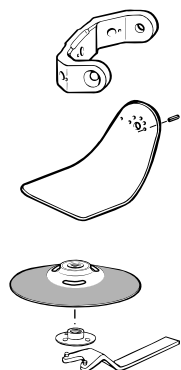
Model	Max free speed r/min	Max output kW	Max pad dia mm	Weight kg	Spindle thread	Spindle length mm	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
GTG25-S085	8500	2.5	180	2.0	UNC 5/8"	23	59	32	9	16	3/8"	8423 2525 03
GTG25-S085-M14	8500	2.5	180	2.0	M14	23	59	32	9	16	3/8"	8423 2525 04
GTG40 S060	6000	4.5	140	3.6	UNC 5/8"	23	132	60	20	16	1/2"	8423 2930 00
LSV48 SA066	6600	1.9	180	2.3	UNC 5/8"	21	78	36	17	16	1/2"	8423 0132 00
LSV48 SA066-M14	6600	1.9	180	2.3	M14	18	78	36	17	16	1/2"	8423 0132 01
LSV48 SA085	8500	1.9	180	2.3	UNC 5/8"	21	78	36	17	16	1/2"	8423 0132 02
LSV48 SA085-M14	8500	1.9	180	2.3	M14	18	78	36	17	16	1/2"	8423 0132 03

Backing pad not included

## Accessories

Model	GTG 25	GTG40	LSV48	See illustration
<b>Backing set, standard type</b>				
Ø 125mm - 5/8" - soft			4170 0768 80	
Ø 180mm - 5/8" - soft			4171 0756 80	
Ø 180mm - 5/8" - stiff			4172 0757 80	
<b>Backing set with cooling ribs</b>				
Ø 125mm - 5/8" and M14, medium			4150196280	
Ø 180 mm - 5/8" and M14, stiff	4150196283	4150196283	4150196283	
Ø 180 mm - 5/8" and M14, medium	4150196281	4150196281	4150196281	
<b>Backing set, heavy duty type</b>				
Ø 120 mm - M14			4175088393	
Ø 162 mm -M14			4175088391	
Ø180 mm - M14	4170 1192 91	4170 1192 91	4170 1192 91	
Ø 120 mm - 5/8"			4175 0883 92	
Ø 162 mm - 5/8"			4175 0883 90	
Ø180 mm - 5/8"	4170 1192 90	4170 1192 90	4170 1192 90	
Ø 230 mm - 5/8"		4170 1193 90		
<b>Adapter kit for fiber disc</b>				
		4175 0238 90	-	-
Flange washer for 5/8"		-	4175 0893 00	5
Flange washer for M14		-	4175 0893 01	5
Wheel friction plate		4175 0186 90	-	-
Hand shield		4175 0165 90	-	-
Support handle	4175 0705 90	4110 1355 88	4175 0868 80	-
Vibration damped handle		4150 1521 80	4150 1521 80	-
Positioner for support handle		4175 0164 90	-	-
<b>Spot suction kit for sanding with fibre disc</b>				
Ø180 mm kit	3780 4090 27	3780 4011 00	3780 4093 40	-
Suction cap Ø180 mm with brush (incl. in kit)		3780 2675 31	3781 2675 00	2
Backing pad Ø180 mm (incl. in kit)		3780 2710 60	3781 2710 60	3
Distance washer 12 mm (incl. in kit)		3780 2721 40	3781 2721 50	6
Nut 5/8" (incl. in kit)		3780 2722 00	3781 2726 70	5
MultiFlex	8202 1350 22	8202 1350 60	8202 1350 24	7

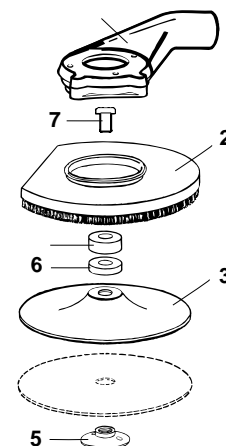
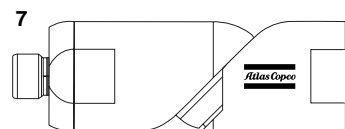
### GTG40



Positioner for support handle

Hand shield

Back-up pad



## Productivity Kits

Model	Air inlet BSP	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
MAXI F/R C-T16	1/2"	43 l/s	Turbo 16 mm	Claw	No	8202 0850 05
MAXI F/RD C-T20	1/2"	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Sanders

for fiber discs, dia. 180-230 mm



LSV38

**LSV28** tools are small yet powerful, one-handed sanders. They are available in various speeds and also in a wet sanding version.

**LSV38** is suitable for medium rough to rough sanding. A speed governor ensures optimum process speed.

**LSS** tools are robust vertical sanders with aluminum housings for long working life-times.



LSV28



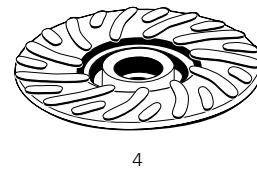
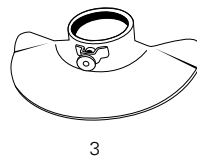
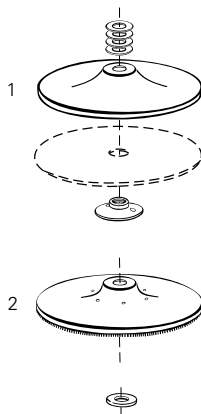
LSS53

Model	Max free speed r/min	Max output kW	Max pad dia mm	Weight kg	Spindle thread	Spindle length mm	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
LSV28 S040	4000	0.62	180	1.5	UNC 5/8"	32	87	15.0	4.0	10	3/8"	8423 0126 22
LSV28 S060	6000	0.73	180	1.5	UNC 5/8"	32	87	16.0	7.3	10	3/8"	8423 0125 30
LSV28 S060-M14	6000	0.73	180	1.5	M14	16	87	16.0	7.3	10	3/8"	8423 0125 64
LSV38 S066	6600	1.20	180	1.5	UNC 5/8"	22	96	24.0	13.0	13	3/8"	8423 0130 73
LSV38 S066-M14	6600	1.20	180	1.5	M14	12	96	24.0	13.0	13	3/8"	8423 0130 77
LSV38 S085	8500	1.30	180	1.5	UNC 5/8"	22	96	28.0	15.0	13	3/8"	8423 0130 69
LSV38 S085-M14	8500	1.30	180	1.5	M14	12	96	28.0	15.0	13	3/8"	8423 0130 72
LSS53 S060	6000	1.2	180	2.3	UNC 5/8"	30	180	24.0	7.0	13	1/2"	8423 2530 23
LSS53 S060-M14	6000	1.2	180	2.3	M14	31	180	24.0	7.0	13	1/2"	8423 2530 27

Backing pad not included

## Accessories

	LSV28	LSV38	LSS53	See illustraion
<b>Backing set, standard type</b>				
ø 125mm - 5/8" - soft	4170 0768 80	4170 0768 80	4170 0768 80	1
ø 180mm - 5/8" - soft	4170 0756 80	4170 0756 80	4170 0756 80	1
ø 180mm - 5/8" - stiff	4170 0757 80	4170 0757 80	4170 0757 80	1
<b>Backing set with cooling ribs</b>				
ø 125mm - 5/8" and M14, medium	4150 1962 80	4150 1962 80	4150 1962 80	2
ø 180 mm - 5/8" and M14, stiff	-	4150 1962 83	4150 1962 83	2
ø 180 mm - 5/8" and M14, medium	4150 1962 81	4150 1962 81	4150 1962 81	2
<b>Backing set, heavy duty type</b>				
ø 120 mm - M14	-	4175 0883 93	4175 0883 93	4
ø 162 mm - M14	-	4175 0883 91	4175 0883 91	4
ø 120 mm - 5/8"	-	4175 0883 92	4175 0883 92	4
ø 162 mm - 5/8"	-	4175 0883 90	4175 0883 90	4
Hand shield for 125-180 mm	-	4150 1936 80	-	3



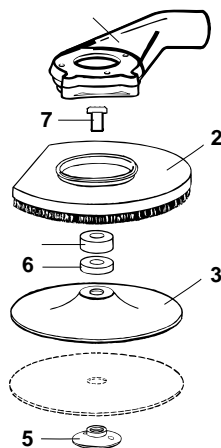
## Productivity Kits

Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer F/RD EQ10-T13	3/8"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2"	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
MIDI Optimizer F/RD EQ10-T16	1/2"	31 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12

# Sanders

dust extraction  
for fiber discs, dia. 125-230 mm

	LSV28	LSV38	LSS53	See illustration
<b>Spot suction kits for sanding with fiber disc. Sanders with UNC 5/8" spindle</b>				
<b>LSV28 S040/S060 125 mm - kit</b>	3780 4007 80	-	-	-
Suction cap 125 mm with brush (incl. in kit)	3780 2650 20	-	-	2
Backing pad 125 mm (incl. in kit)	3780 2710 30	-	-	3
Distance washer 12 mm (incl. in kit)	3780 2721 60	-	-	4
Nut 5/8" (incl. in kit)	3780 2722 00	-	-	5
<b>LSV28 ST12-13 125 mm - kit</b>	3780 4008 60	-	-	-
Suction cap 125 mm with brush (incl. in kit)	3780 2650 20	-	-	2
Backing pad 125 mm (incl. in kit)	3780 2710 30	-	-	3
Distance washer 9 mm (incl. in kit)	3780 2721 50	-	-	6
Adapter UNF 3/8" UNC 5/8" (incl. in kit)	4021 0457 00	-	-	7
Nut 5/8" (incl. in kit)	3780 2722 00	-	-	5
<b>LSV28 S040/S060 180 mm - kit</b>	3780 4007 90	-	-	-
Suction cap 180 mm with brush (incl. in kit)	3780 2675 00	-	-	2
Backing pad 180 mm (incl. in kit)	3780 2710 60	-	-	3
Distance washer 9 mm (incl. in kit)	3780 2721 50	-	-	6
Nut 5/8" (incl. in kit)	3780 2726 70	-	-	5
<b>LSV28 S021 180 mm - kit</b>	3780 4031 60	-	-	-
Suction cap 180 mm with brush (incl. in kit)	3780 2675 00	-	-	2
Backing pad (incl. in kit)	3780 2710 60	-	-	3
Distance washer 12 mm (incl. in kit)	3780 2721 60	-	-	6
Nut 5/8" (incl. in kit)	3780 2726 70	-	-	5
<b>LSV38 D066/D085 180 mm - kit</b>	-	3780 4008 84	-	-
Suction cap 180 mm with brush (incl. in kit)	-	3780 2675 00	-	2
Backing pad 180 mm (incl. in kit)	-	3780 2710 60	-	3
Nut 5/8" (incl. in kit)	-	3780 2726 70	-	5
Distance washer 9 mm (incl. in kit)	-	3780 2721 50	-	6
<b>LSV38 D085/D120 125 mm - kit</b>	-	3780 4008 85	-	-
Suction cap 125 mm with brush (incl. in kit)	-	3780 2650 20	-	2
Backing pad 125 mm (incl. in kit)	-	3780 2710 30	-	3
Nut 5/8" (incl. in kit)	-	3780 2726 70	-	5
Distance washer 9 mm (incl. in kit)	-	3780 2721 50	-	6
<b>SVS53 S060 180mm - kit</b>	-	-	3780 4011 00	-
Suction cap 180 mm with brush	-	-	3780 2675 00	2
Backing pad 180 mm (incl. in kit)	-	-	3780 2710 60	3
Nut 5/8" (incl. in kit)	-	-	3780 2726 70	5
Distance washer 12 mm (incl. in kit)	-	-	3780 2721 60	6



# Sanders

*belt sanders*

**G2403/G2404** are suitable for precision sanding where access is difficult with conventional sanders.

The head rotation provides a versatile solution for many applications.



G2410



G2403



G2404

Model	Max free speed r/min	Max output kW	Belt speed m/min	Belt dimension mm	Weight kg	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
G2403	18000	250	1300	10x330	0,8	11	10	1/4"	8423 0304 33
G2404	16500	400	2540	20x520	1,4	11	10	1/4"	8423 0304 44
G2410	25000	275	1400	13x305	0,9	10	10	1/4"	8423 0304 10

# Sanders

*pistol grip*



G2302



G2502



G2302-KIT

Pistol grip sanders for pad size 75 to 125 mm.

**G2502** is a powerful sander for heavy sanding,

**G2302** is a small sander for lighter sanding jobs.

Both models are reliable, durable and easy to work with.

Model	Max free speed r/min	Max output kW	Max pad dia mm	Weight kg	Spindle thread	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
G2302	17000	0.175	75	0.6	UNC 1/4"	9	10	1/4"	8423 0312 14
G2302 KIT	17000	0.175	75	0.6	UNC 1/4"	9	10	1/4"	8423 0312 15
G2502	12000	0.270	125	1	UNF 7/16"	12	10	1/4"	8423 0312 05

# Sanders

for wet sanding



LSV28 ST008

Wet sanding is a cleaner alternative than sanding in certain applications.

**LSV28 ST008** wet sanders have a central water supply through the angle head for optimal water distribution on the work surface.

Model	Max free speed r/min	Max output kW	Max pad dia mm	Weight kg	Spindle thread	Spindle length mm	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
LSV28 ST008-01 LF	800	0.68	200	2.0	UNC 5/8"	32	87	16	5.6	10	3/8"	8423 0125 51
LSV28 S040-01-M14	4000	0.62	180	1.5	M14	16	87	15	5.0	10	3/8"	8423 0125 12

## Accessories

Model	Ordering No.
Backing set for wet sanding	
Ø 180 mm - 5/8" - foam rubber (max 2500 rpm)	4170 0428 83

# Sanders

*orbital and random orbital  
for coated abrasives*



LST30

**LST/LSO** orbital and random orbital sanders are designed to give you the best surface result in the shortest possible time before painting and coating. They are also suitable for polishing with wax and surface conditioner.

All models are lubrication and silicone free to avoid contamination of the workpiece.

They are available in standard versions, self-suction, or central suction.



LST20



LST21



LST22



LSO30

Model	Max free speed r/min	Max output W	Max pad size mm	Orbit dia mm	Weight kg	Height over spindle mm	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Handle		Ordering No.
										With	Without	
<b>Random orbital - Standard</b>												
LST30 H090-11	9000	300	110	8	1.2	120	7.5	8	1/4"	●	-	8423 0361 64
LST30 H090-15	9000	300	150	8	1.2	120	7.5	8	1/4"	●	-	8423 0361 72
LST30 S090-15	9000	300	150	8	1.1	120	7.5	8	1/4"	-	●	8423 0361 98
<b>Self suction<sup>a</sup></b>												
LST31 H090-15	9000	300	150	8	1.4	120	7.5	8	1/4"	●	-	8423 0363 19
<b>Central suction<sup>b</sup></b>												
LST32 H090-15	9000	300	150	8	1.4	120	7.5	8	1/4"	●	-	8423 0362 55
LST32 S090-15	9000	300	150	8	1.3	120	7.5	8	1/4"	-	●	8423 0362 71
<b>Orbital - Standard</b>												
LSO30 S070-3	7000	300	93x170	5	1.6	125	7.5	8	1/4"	-	●	8423 0360 16
LSO30 H070-3	7000	300	93x170	5	1.7	125	7.5	8	1/4"	●	-	8423 0360 24
<b>Central suction<sup>c</sup></b>												
LSO32 H070-3	7000	300	93x170	5	1.8	125	7.5	8	1/4"	●	-	8423 0361 07
<b>Standard model</b>												
LST20 R350	12000	200	90	5	0.85	95	8	8	1/4"	-	●	8423 0361 65
LST20 R550	12000	200	125	5	0.85	83	8	8	1/4"	-	●	8423 0361 69
LST20 R650	12000	200	150	5	0.85	83	8	8	1/4"	-	●	8423 0361 73
LST20 R525	12000	200	125	2.4	0.85	83	8	8	1/4"	-	●	8423 0361 81
LST20 R625	12000	200	150	2.4	0.85	83	8	8	1/4"	-	●	8423 0361 84
<b>Extraction model - Self suction</b>												
LST21 R550 <sup>d</sup>	12000	200	125	5	0.85	83	8	8	1/4"	-	●	8423 0361 70
LST21 R650 <sup>d</sup>	12000	200	150	5	0.85	83	8	8	1/4"	-	●	8423 0361 74
<b>Extraction model - Central suction</b>												
LST22 R550 <sup>d</sup>	12000	200	125	5	0.85	83	8	8	1/4"	-	●	8423 0361 71
LST22 R650 <sup>d</sup>	12000	200	150	5	0.85	83	8	8	1/4"	-	●	8423 0361 75

<sup>a</sup> Includes dust collecting bag.

<sup>b</sup> Required air flow 150 m<sup>3</sup>/h or 88 cfm.

<sup>c</sup> Required air flow 60 m<sup>3</sup>/h or 35 cfm.

<sup>d</sup> 186 mm (7.3") suction hose connector included.

# Accessories

## LSO

For LSO	Ordering No.
Base pad, vinyl for -3F-type	4112 0787 01

## LST20/21/22, pad for self stick paper

	Ordering No.		
	Dia 89 mm	Dia 125 mm	Dia 150 mm
For LST20	4112 1231 00	4112 1233 00	4112 1235 00
For LST21/22	-	4112 1232 00	4112 1234 00

## LST20/21/22, pad for velcro back paper

	Ordering No.		
	Dia 89 mm	Dia 125 mm	Dia 150 mm
For LST 20	4112 1218 00	4112 1216 00	4112 1214 00
For LST 21/22	-	4112 1217 00	4112 1215 00

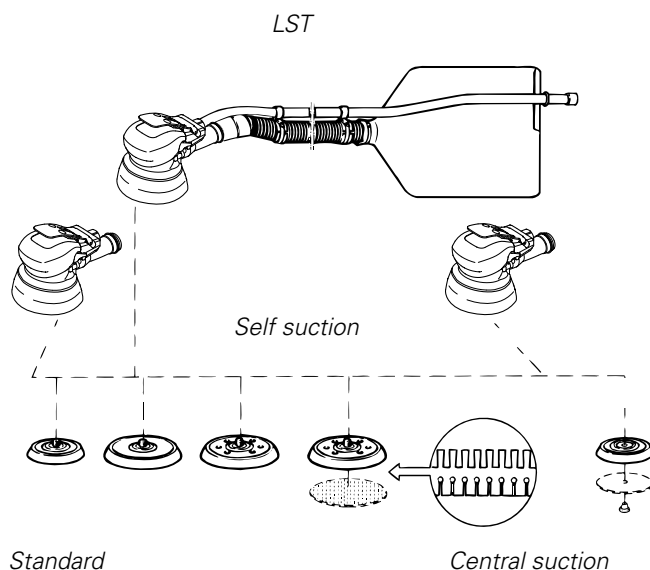
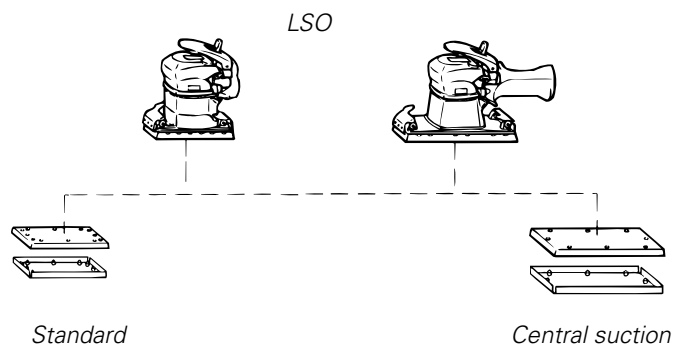
## LST30/31/32

	Dia 150 mm
Pad velcro, Ø 150 mm	4112 0795 02 <sup>a</sup>
Pad velcro, Ø 110 mm	4112 0792 02 <sup>b</sup>
Pad velcro, Ø 150 mm, 6 holes	4112 0796 01 <sup>c</sup>

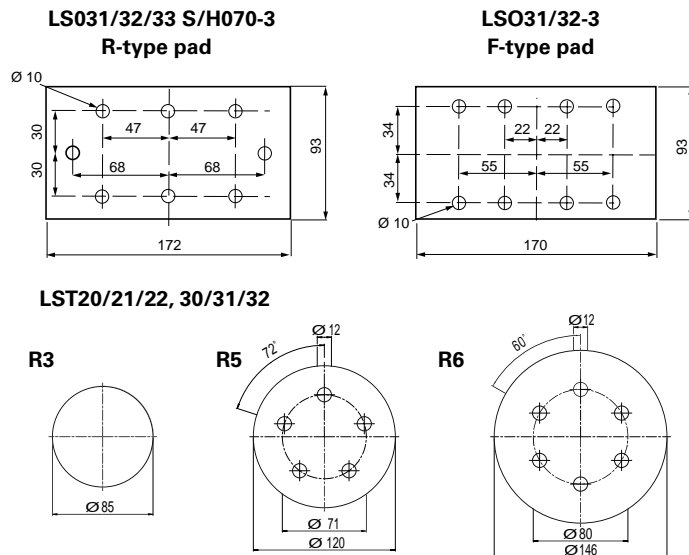
<sup>a</sup> LST30-15    <sup>b</sup> LST30/32-11    <sup>c</sup> LST31/32-15    <sup>d</sup> LST32

## Productivity Kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15



## Hole pattern dimensions for sanding paper, dust extraction models



# Sanders

*orbital and random orbital  
for coated abrasives*



G2438-N - No suction

**G2438** orbital sanders are ideal for precise and efficient sanding for fine surfaces.

The tools are compact with a composite housing. With three different orbital diameters as well as different dust suction solutions, the range covers virtually every need.



G2438-C - Central suction



G2438-I - Self suction

Model	Max free speed r/min	Max output W	Max pad dia mm	Orbit dia mm	Weight kg	Spindle thread	Air consumption at free speed l/s	Rec hose size mm	Air inlet th-read BSP	Extraction			Ordering No.
										No suction	Central suction	Self suction	
G2428-10	9000	180	150	10	1.5	UNF 5/16"	9	10	1/4"	●	-	-	8423 2810 16
G2438-6.3N	12000	160	150	2.5	0.9	UNF 5/16"	9	10	1/4"	●	-	-	8423 0313 10
G2438-6.5N	12000	160	150	5	0.9	UNF 5/16"	9	10	1/4"	●	-	-	8423 0313 05
G2438-6.10N	12000	160	150	10	0.9	UNF 5/16"	9	10	1/4"	●	-	-	8423 0313 12
G2438-6.3I	12000	160	150	2.5	1	UNF 5/16"	9	10	1/4"	-	-	●	8423 0313 20
G2438-6.5I	12000	160	150	5	1	UNF 5/16"	9	10	1/4"	-	-	●	8423 0313 15
G2438-6.10I	12000	160	150	10	1	UNF 5/16"	9	10	1/4"	-	-	●	8423 0313 17
G2438-6.3C	12000	160	150	2.5	0.9	UNF 5/16"	9	10	1/4"	-	●	-	8423 0313 30
G2438-6.5C	12000	160	150	5	0.9	UNF 5/16"	9	10	1/4"	-	●	-	8423 0313 25
G2438-6.10C	12000	160	150	10	0.9	UNF 5/16"	9	10	1/4"	-	●	-	8423 0313 27

Velcro pad included with tool

## Accessories

### Pads for G2438

Model	Ordering No.
125 mm Velcro 5 hole	4112 6106 04
125 mm Vinyl no hole	4112 6106 01
125 mm Velcro no hole	4112 6106 03
150 mm Velcro 5 hole	4112 1369 00
150 mm Velcro no hole	4112 1363 00
150 mm Velcro 6 hole	4112 6103 16
150 mm Vinyl 6 hole	4112 6105 06
150 mm Velcro no hole	4112 6102 10
150 mm Vinyl no hole	4112 6104 00

# Polishing



LSV28

Polishing is often used to enhance the look of a surface, remove oxidation and create a protective surface.

We offer **LSV28** in various speeds to meet your specific needs.

Model	Max free speed r/min	Max output kW	Max pad size dia mm	Spindle thread	Spindle length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
LSV28 S021	2100	0.68	180	UNC 5/8"	32	1.9	16	5.6	10	3/8"	8423 0125 19
LSV28 S021-M14	2100	0.68	180	M14	16	1.9	16	5.6	10	3/8"	8423 0125 72
LSV28 ST034	3400	0.71	180	UNC 5/8"	32	1.7	18	7.7	10	3/8"	8423 0135 80
LSV28 S040	4000	0.62	180	UNC 5/8"	32	1.5	15	4.0	10	3/8"	8423 0126 22

## Accessories

Backing set for polishing	Ordering No.
<b>Velcro pads</b>	
150 mm Velcro pad, thread UNC 5/8". Maximum speed 2 500 r/min. To be used together with Velcro sponge heads or Velcro lambswool bonnet.	4112 6092 15
Lambswool bonnet 150 mm with Velcro fitting. Maximum speed 2 500 r/min.	4112 6093 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, White, Dense, firm sponge head for compounding 2-pack paint systems. Excellent result with all leading makes of compound and polish.	4112 6094 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Blue Softer sponge, more open cell, for polishing and compounding of cellulose, acrylics etc.	4112 6096 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Yellow coarse sponge, open cell, for aggressive compounding including oxidized paintwork.	4112 6099 15
<b>Threaded pads</b>	
150 mm white sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6100 15
150 mm blue sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6101 15
180 mm soft plastic UNC 5/8" and spanner. Maximum speed 8 000 r/min.	4170 0756 80



## Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Polishing



G2406

**G2406/7** polishers are designed to be powerful and robust.

These tools can be used with lambswool pads and various sponges for an optimal surface finish.



G2407

Model	Max free speed r/min	Max output kW	Max pad dia mm	Spindle thread	Spindle length mm	Weight kg	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
G2406	2000	350	200	UNF 3/8"	17	1.4	10	10	1/4"	8423 0304 88
G2407M14	3400	350	150	M14	12	1.4	10	10	1/4"	8423 0304 55
G2407	3400	350	200	UNF 3/8"	17	1.4	10	10	1/4"	8423 0304 77

## Accessories

Velcro pads	Ordering No.
150 mm Velcro pad, thread UNC 5/8". Maximum speed 2 500 r/min. To be used together with Velcro sponge heads or Velcro lambswool bonnet.	4112 6092 15
Lambswool bonnet 150 mm with Velcro fitting. Maximum speed 2 500 r/min.	4112 6093 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, White, Dense, firm sponge head for compounding 2-pack paint systems. Excellent result with all leading makes of compound and polish.	4112 6094 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Blue Softer sponge, more open cell, for polishing and compounding of cellulose, acrylics etc.	4112 6096 15
150 mm Velcro sponge head, maximum speed 2 500 r/min, Yellow coarse sponge, open cell, for aggressive compounding including oxidized paintwork.	4112 6099 15
Threaded pads	
150 mm white sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6100 15
150 mm blue sponge head pad, thread UNC 5/8". Maximum speed 4 000 r/min.	4112 6101 15
180 mm soft plastic UNC 5/8" and spanner. Maximum speed 8 000 r/min.	4170 0756 80
UNF 3/8"-24 x M14 Spindle thread adaptor. (To be used with M14 threaded pads.)	4021 0435 00
UNF 3/8" x UNC 5/8" Spindle thread adaptor. (To be used with 5/8" threaded pads. Included with tool.)	4021 0434 00
Exhaust air hose	4150 1077 80



## Productivity Kits

Model	Economical airflow	Hose 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Fine Cutting and Engraving



Atlas Copco routers and circular cutters are designed for operator comfort and a first-class result when engraving or fine cutting in aluminum and composite materials.



# Engraving Pen



P2505



C1050

**P2505** engraving pen will give a precise result on any hard material, such as aluminum, steel or glass. The needle is easy to change and the tool is small yet durable.

**C1050** allows you to cut through material with ease. Due to its geared mechanism the tool will not stall as a conventional air saws commonly do.

Model	Max free speed r/min	Length mm	Weight kg	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
P2505	190	175	0.12	0.6	3.2	1/8"	8425 0102 72

Model	Stroke per minute	Stroke length mm	Blade shank opening mm	Length mm	Weight kg	Air consump- tion l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
C1050	10500	5	5	148	0.52	2.2	6.3	1/4"	8424 1110 50

## Accessories

Model	Ordering No.
P2505 Needle and small parts kit	4081 0068 90

# Fine Cutting

*circular cutters*



LCS38

Get a top quality result with Atlas Copco circular cutters. The **LCS10** cuts to a depth of 10 mm and the **LCS38** to 26 mm.

Choose the tool and blade that fit your requirements and you can cut with ease through steel, aluminum, wood and fiber glass.

The **LCS38** is equipped with a dust extraction hood, just connect a suction hose.



LCS10

Model	Max free speed r/min	Max cutter wheel dia mm	Max cutting depth mm	Max output kW	Weight kg	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Dust extraction hood	Ordering No.
LCS10	3000	50	10	0.3	1.4	7.6	6.3	1/4"	-	8424 1161 38
LCS38 S150D	15000	100	26	1.3	1.7	28.0	13.0	3/8"	•*	8424 1125 06

\* Suction requirement: 200 m<sup>3</sup>/h.

## Accessories

### Cutter blades

	Application	Max thickness of material mm	No. of teeth mm	Dia mm	Hole mm	Ordering No.
LCS10	Steel sheet	1.0	92	50	10	4190 0394 00
	Steel sheet (std)	1.0	62	50	10	4190 0395 00
	Aluminum	2.5	34	50	10	4190 0396 00
	Wood	10.0	34	50	10	4190 0396 00
LCS38	Glass fiber	18.0	44/60 (Grain)	75	12	3780 5073 00
	Glass fiber	25.0	44/60 (Grain)	100	12	3780 5074 00
LCS38	Suction hose set (L= 150 mm)	-	-	-	-	3780 2724 31

## Productivity Kits

Model	Air inlet BSP	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-T13	3/8	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
MIDI Optimizer F/R EQ10-T13	1/2	21 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	1/2	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

# Weld flux, paint and rust removal



Atlas Copco scalers are ideal for all weld flux, paint and rust removal tasks in foundries, shipyards, weld shops and construction sites. Our range includes vibration damped models, which reduce the operator's exposure to vibrations.

## Selection Guide

		Vibration damped	Blowing device	Weld flux removal	Paint & rust removal
Scalers	<b>RVM 07B</b>	•		•	
	<b>RRC 13</b>			•	
	<b>RRC 13B</b>		•	•	
	<b>RRC 13N</b>				•
PRO scalers	<b>P2520</b>			•	
	<b>P2550</b>	•		•	
	<b>P2551</b>	•		•	
	<b>P2540</b>	•			•
	<b>P2541</b>	•			•

# Scalers

Atlas Copco robust, all-steel scalers are designed to work in the toughest environments.

The tools are ideal for removal of weld flux, paint and rust, and for light concrete trimming. The **RRC13N** needle scaler can handle even the toughest paint and rust removal tasks.

**RVM07B** and **RRC13B** scalers feature a clean blowing device.



RRC13B

RVM07B

RRC13N

Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
RVM07B	100	-	-	273	1.7	3.8	6.3	1/4"	8425 0105 25
RRC13	73	35	1.4	221	1.4	4.0	10	3/8"	8425 0101 30
RRC13B	73	35	1.4	231	1.6	4.0	10	3/8"	8425 0101 33
RRC13N	73	35	1.4	352	1.9	4.0	10	3/8"	8425 0101 36

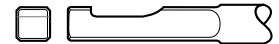
# Accessories

## For RRC13, 13B

RRC13 / RRC13B	Ordering No.
Hand guard	3510 0246 90
Silencer	3510 0366 80

## For RRC13N Needle-set of 19 needles, length 100 mm

Material	Ordering No.
Steel, standard	3510 0221 90
Steel flat ends	3510 0227 90
Stainless steel flat ends	3510 0228 90
Beryllium copper flat ends (spark resistant)	3510 0229 90



## Chisels for RRC13/13B, square shank 13.0 mm

Chisel type	Designation	Width		Length		Square 13 mm (1/2") Ordering No.
		mm	in	mm	in	
	Chisel blank	15	0.59	155	6.1	3085 0020 00
		15	0.59	200	7.9	3085 0020 01
		15	0.59	300	11.8	3085 0020 02
	Flat chisel	15	0.59	165	6.1	3085 0227 00
		15	0.59	200	7.9	3085 0227 01
	Wide flat chisel	35	1.38	165	6.5	3085 0032 00
		35	1.38	200	7.9	3085 0032 01
		35	1.38	300	11.8	3085 0032 02
		55	2.17	165	6.5	3085 0332 00
	Angle scraper chisel	35	1.38	165	6.5	3085 0176 00
		35	1.38	200	7.9	3085 0176 01
		55	2.17	165	6.5	3085 0333 00
	Scaling chisel	15	0.59	155	6.1	3085 0018 00
		15	0.59	200	7.9	3085 0018 02
		15	0.59	300	11.8	3085 0018 01

## Chisels for RVM07B, special shank

Chisel type	Designation	Material	Width		Length		Ordering No.
			mm	in	mm	in	
	Flat chisel	Tungsten carbide	10	0.39	120	4.7	3085 0321 00
		Through hardened steel	10	0.39	120	4.7	3085 0325 00
		Tungsten carbide	10	0.39	200	7.9	3085 0321 01
		Tungsten carbide	10	0.39	300	11.8	3085 0321 02
		Tungsten carbide	20	0.79	120	4.7	3085 0345 00
		Through hardened steel	20	0.79	120	4.9	3085 0346 00
	Wide chisel	Tungsten carbide	35	1.38	120	4.7	3085 0322 00
		Through hardened steel	35	1.38	120	4.7	3085 0327 00

# Productivity Kits

Model	Economical air flow	Hose	Coupling	Lubrication	Ordering No.
<b>For percussive tools with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools incl whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Scalers

weld flux removal tools and scalers

**PRO** weld flux removal tools and scalers are perfect for tough applications involving removal of weld flux or paint and rust. The all-steel construction of the tools ensures durability.

The **P2540**, **P2541**, **P2550** and **P2551** tools are all vibration damped and available in in-line and pistol grip configurations.

The compact **P2520** is a good choice for weld flux removal.



P2520



P2540



P2541



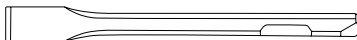
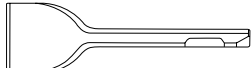


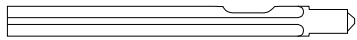
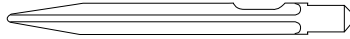
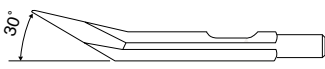
P2550



P2551

Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Bushing mm	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Bushing square type	Ordering No.
P2520	90	16	1.6	182	1	12.7	2.4	6.3	1/4"	●	8425 0103 15
P2540	40	11	-	340	2.7	-	8	10	1/4"	-	8425 0103 40
P2541	40	11	-	370	2.35	-	8	10	1/4"	-	8425 0103 41
P2550	40	11	3	395	3.2	12.7	8	10	1/4"	●	8425 0103 50
P2551	40	11	3	435	2.95	12.7	8	10	1/4"	●	8425 0103 51

# Accessories

	Designation	Blade width	Chisel length	For tool	Ordering No.
	Flat chisel	19 mm	178 mm	P2550/51	3085 0400 47
	Wide flat chisel	64 mm	178 mm	P2550/51	3085 0400 48
	Flat chisel	19 mm	254 mm	P2550/51	3085 0400 49
	Weld flux chisel	35 mm	178 mm	P2550/51	3085 0400 50
	Thin chisel	6 mm	203 mm	P2550/51	3085 0400 51
	Chisel blank	12.7 mm	155 mm	P2520	3085 0400 00
		12.7 mm	200 mm	P2520	3085 0400 01
		12.7 mm	250 mm	P2520	3085 0400 02
	Flat chisel	14.8 mm	155 mm	P2520	3085 0400 03
		14.8 mm	200 mm	P2520	3085 0400 04
		14.8 mm	250 mm	P2520	3085 0400 05
	Flux chisel	25 mm	155 mm	P2520	3085 0400 06
		25 mm	200 mm	P2520	3085 0400 07

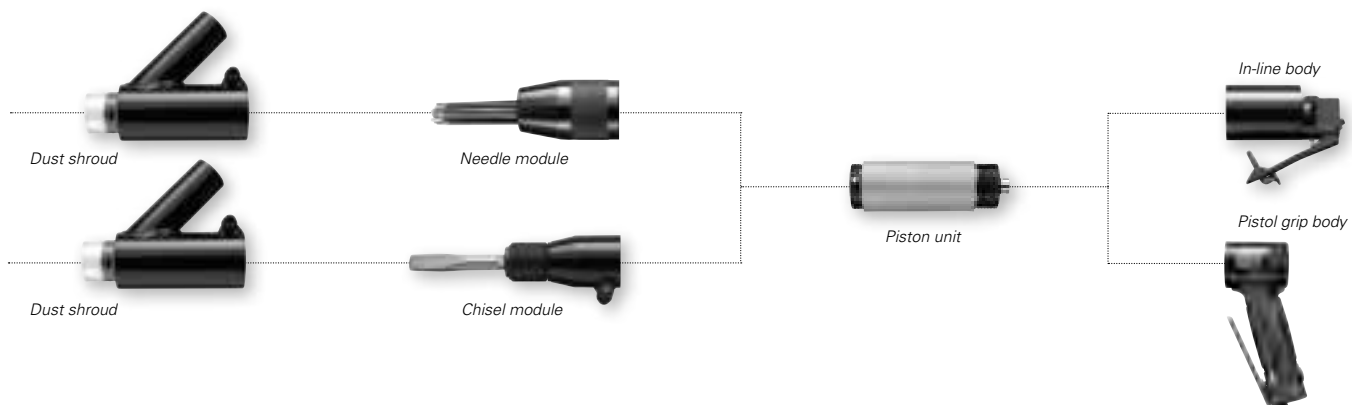
## Needles

Designation Set of 19 needles	Length mm	Ordering No.
Steel standard	180	3512 0071 90
Stainless steel, flat ends	180	3512 0072 90
Beryllium copper flat ends	180	3512 0073 90

## Modules\*

Designation	Ordering No.
Dust shroud	4112 1546 04
Inline body	4112 3009 93
Pistol grip body	4112 3009 94
Chisel module	4112 1554 90
Needle module	4112 1555 90

\* See illustrations below



# Productivity Kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Rough Chiseling



Atlas Copco robust, all-metal chipping hammers are designed to stand up to the roughest handling and cope with the toughest jobs in foundries, shipyards, offshore installations and other heavy industries. Built-in ergonomic features such as vibration dampening help reduce operator fatigue and protect the operator against long-term exposure to vibration and noise.

## Selection Guide

		Vibration damped	D-handle design	Extreme blow energy	Heavy duty	Pistol grip
Chipping hammers	<b>RRF 21-01</b>	•	•		•	
	<b>RRF 31-01</b>	•	•		•	
	<b>RRD 37-11</b>	•	•		•	
	<b>RRD 57-01</b>	•	•	•	•	
	<b>RRD 57-12</b>	•	•	•	•	
	<b>RRC 22F-01</b>				•	
	<b>RRC 22F-02</b>				•	
	<b>RRC 34B-01</b>				•	
	<b>RRC 65B-01</b>			•	•	
	<b>RRC 75B-01</b>			•	•	
PRO Chipping hammers	<b>P2530-H</b>					•
	<b>P2531-H</b>					•
	<b>P2535-H</b>				•	
	<b>P2536-H</b>				•	
	<b>P2539-H</b>			•	•	

# Chipping hammers



RRD57

Atlas Copco's robust chipping hammers are protected against rough handling by their light metal alloy casings.

**RRD** and **RRF** versions are vibration damped for operator comfort. For increased protection a steel cover is available as an optional accessory for the RRF versions.

**RRC** chipping hammers have a sturdy construction that make them highly dependable.



RRF21



RRC22F



RRC75B



RRC34B

Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Bush- ing mm	Air con- sumption l/s	Rec hose size mm	Air inlet thread BSP	Bush- ing type		Inte- grated hose barb	Vibra- tion damped	Ordering No.
										Hex	Round			
RRF21-01	57	33	2.0	245	1.75	12.7	6.5	10.0	3/8"	•	-	-	•	8425 1104 05
RRF31-01	38	43	4.4	265	2.5	12.7	7.5	10.0	3/8"	•	-	-	•	8425 1104 15
RRF31-02	38	43	4.4	265	2.5	12.7	7.5	10.0	3/8"	-	•	-	•	8425 1104 16
RRD37-11	35	70	6.8	418	3.0	17.3	7.2	12.5	-	•	-	•	•	8425 1101 22
RRD57-11	31	92	9.3	458	3.4	17.3	9.5	12.5	-	•	-	•	•	8425 1103 20
RRD57-12	31	92	9.3	458	3.4	17.3	9.5	12.5	-	-	•	•	•	8425 1103 38
RRC22F-01	62	52	2.7	260	2.2	12.7	6.2	10.0	3/8"	•	-	-	-	8425 0202 22
RRC22F-02	62	52	2.7	260	2.2	12.7	6.2	10.0	3/8"	-	•	-	-	8425 0202 30
RRC34B-01	45	67	5.5	330	4.5	17.3	8.0	12.5	-	•	-	•	-	8425 0212 53
RRC34B-02	45	67	5.5	330	4.5	17.3	8.0	12.5	-	-	•	•	-	8425 0212 61
RRC65B-01	40	50	10.0	335	5.9	17.3	10.8	12.5	-	•	-	•	-	8425 0225 33
RRC75B-01	30	75	16.0	390	6.5	17.3	14.0	12.5	-	•	-	•	-	8425 0225 58

<sup>a</sup> Effective piston dia 19 mm, 0.75 in.

<sup>b</sup> Effective piston dia 21.5 mm, 0.85 in.

-01 and -11: Guided models,

-02 and -12: Non guided models.

## Accessories

Model	Ordering No.
<b>Power regulator</b>	
RRF21 and -31	3512 0273 80
<b>Retainer, open type</b>	
RRF21	3512 0290 90
RRF31	3512 0305 90
<b>Protective handle kit</b>	
RRF21	3512 0349 81
RRF31	3512 0349 82

Protective cover



Retainer, open type



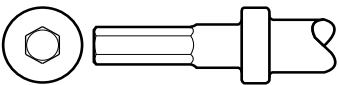
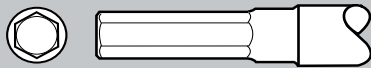
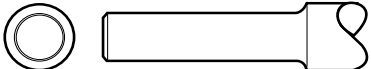
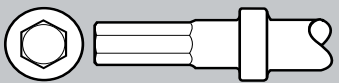

## Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools incl whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Chisels



**Chisels for Chipping hammers.** All chisels are normally through hardened. Otherwise, see tables.

Figure	Shank type	Tools	Table
	Hexagon and round shank ISO, round collar 12.7 mm	RRC22F-01, RRC22F-02 RRF21, RRF31	1
	Hexagon shank ISO without round collar 17.3 mm	RRC34-01, RRC65-01, RRC75-01	2
	Round shank ISO, without collar 17.3 mm	RRC34-02, RRC65-02, RRC75-02	2
	Hexagon shank ISO round collar 17.3 mm	RRC34B-01, RRC65B-01, RRC75B-01	3
	Round shank ISO, with splines 17.3 mm	RRD37, RRD57	3

**1 A. Chisels with square shank 13.0 mm**  
**B. Chisels with square shank ISO 12.7 mm**



Chisel type	Designation	Width		Length		A Hex ISO 12.7 mm (1/2") Ordering No.	B Round ISO 12.7 mm (1/2") Ordering No.
		mm	in	mm	in		
	Chisel blank	13	0.51	200	7.9	3085 0182 00	
		13	0.51	350	13.8	3085 0182 01	
		13	0.51	400	15.7	3085 0182 04	
		13	0.51	500	19.7	3085 0182 05	
	Flat chisel	13	0.51	200	7.9	3085 0183 00	3085 0184 00
		35	1.38	300	11.8	3085 0376 00	
	Sharp chisel	15	0.59	200	7.9	3085 0170 00	
		15	0.59	300	11.8	3085 0170 01	
	Spot weld chisel	17	0.69	200	7.9	3085 0301 00	
	Angle scraper chisel	30	1.18	200	7.9	3085 0262 00	
	Pipe cutting chisel	20	0.78	200	7.9	3085 0302 00	
		35	1.38	200	7.9	3085 0303 00	
	Plate cutting chisel	14.5	0.57	200	7.9	3085 0263 00	
	Plate cutting chisel	16	0.62	200	7.9	3085 0173 00	
	Moil point chisel	13	0.51	200	7.9	3085 0297 00	
		13	0.51	305	12.0	3085 0297 01	

**A. Chisels with ISO shank without collar, round**  
**B. Chisels with ISO shank without collar, hexagon**

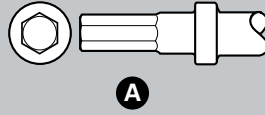


Chisel type	Designation	Width		Length		A Round 17.3 mm (0.68") ISO Ordering No.	B Hexagon 17.3 mm (0.68") ISO Ordering No.
		mm	in	mm	in		
	Chisel blank	23	0.91	200	7.9	3085 0150 00	3085 0140 00
		23	0.91	560	22.0		3085 0140 01
	Flat chisel	23	0.91	225	8.9	3085 0225 00	3085 0224 00

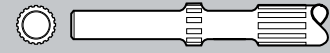
# Chisels

## A. Chisels with hexagon shank ISO, round collar 17.3 mm

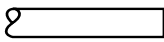

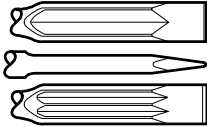
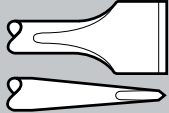
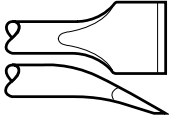

## B. Chisels with round ISO shank with splines 17.3 mm



**A**



**B**

Chisel type	Designation	Width		Length		Hex ISO 17.3 mm (0.68") Ordering No.	Width		Length		Round ISO with splines 17.3 mm (0.68") Ordering No.
		mm	in	mm	in		mm	in	mm	in	
	Chisel blank	22	0.86	335	13.1	3085 0220 00	22	0.86	250	9.8	3085 0242 00
		22	0.86	560	22.0	3085 0220 01	22	0.86	340	13.4	3085 0242 01
		22	0.86	1060	41.7	3085 0220 02	22	0.86	550	21.7	3085 0242 02
	Flat chisel	22	0.86	260	10.2	3085 0221 00	22	0.86	215	8.5	3085 0236 00
		22	0.86	335	13.1	3085 0221 01	22	0.86	250	9.8	3085 0236 01
		22	0.86	560	41.9	3085 0221 02	22	0.86	340	13.4	3085 0236 02
		22	0.86				22	0.86	800	31.5	3085 0242 03
		22	0.86				22	0.86	1200	47.2	3085 0242 04
	Flat chisel	32	1.26	335	13.1	3085 0989 00	32	1.26	340	13.4	3085 0252 00
	Wide flat chisel	50	1.97	335	13.1	3085 0235 00	50	1.97	340	13.4	3085 0250 00
	Extra wide flat chisel	130	5.12	400	15.7	3085 0342 00	130	5.12	400	15.7	3085 0998 00
	Angle scraper chisel	50	1.97	335	13.1	3085 0349 00	50	1.97	335	13.2	3085 0350 00
	Moil point chisel	22	0.86	335	13.1	3085 0223 00	22	0.86	340	13.4	3085 0249 00
		22	0.86	560	15.7	3085 0223 01					

# Chipping

hammers



P2535-H

PRO chipping hammers are available as pistol grip versions for lighter applications.

The bigger D-handle models are suitable for heavy duty applications.



P2530-H



P2531-H



P2536-H



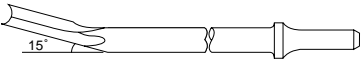
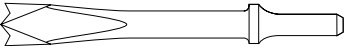
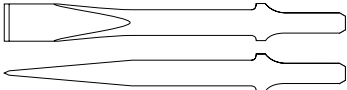

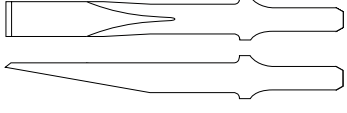
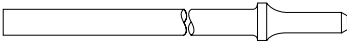
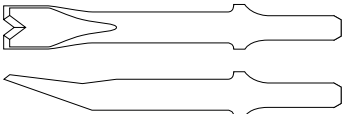
P2539-H

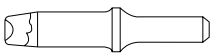

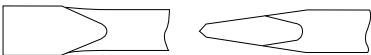

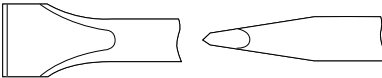
Model	Blows Hz	Stroke mm	Energy per blow J	Length mm	Weight kg	Bushing mm	Air consumption l/s	Rec hose size mm	Air inlet thread BSP	Bushing type		Ordering No
										Hex	Round	
P2530-H	60	38	1.3	140	1.1	10.2	5.8	10	1/4"	●	-	8425 0206 15
P2530-R	60	38	1.3	140	1.1	10.2	5.8	10	1/4"	-	●	8425 0206 16
P2531-H	50	45	4.5	193	1.5	10.2	6.7	10	1/4"	●	-	8425 0206 20
P2531-R	50	45	4.5	193	1.5	10.2	6.7	10	1/4"	-	●	8425 0206 21
P2535-H	50	45	4.5	273	2.5	12	7	10	1/4"	●	-	8425 0206 30
P2535-R	50	45	4.5	273	2.5	14	7	10	1/4"	-	●	8425 0206 31
P2536-H	50	25	8.1	301	5	17.5	10	13	3/8"	●	-	8425 0206 35
P2539-H	28	102	21.2	425	6.8	17.5	11	13	3/8"	-	●	8425 0206 50

## Productivity kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Rubber 13 mm	ErgoQIC 10	Yes	8202 0850 15

# Chisels

	Designation	Width	Length	For tool	Ordering No.
		25 mm	250 mm	P2520, P2521, P2522	3085 0400 08
	Plate cutting chisel	13 mm	208 mm	P2530-R, P2531-R	3085 0400 09
		13 mm	208 mm	P2530-H, P2531-H	3085 0400 10
	Double edge plate cutting chisel	19 mm	155 mm	P2530-R, P2531-R	3085 0400 11
		19 mm	155 mm	P2530-H, P2531-H	3085 0400 12
	Flat chisel	20 mm	178 mm	P2530-R, P2531-R	3085 0400 13
		20 mm	178 mm	P2530-H, P2531-H	3085 0400 14
	Point chisel	3.2 mm	178 mm	P2530-R, P2531-R	3085 0400 15
		3.2 mm	178 mm	P2530-H, P2531-H	3085 0400 16
	Rivet cutter	15 mm	150 mm	P2530-R, P2531-R	3085 0400 17
		15 mm	150 mm	P2530-H, P2531-H	3085 0400 18
	Chisel blank	12.7 mm	182 mm	P2530-R, P2531-R	3085 0400 19
		12.7 mm	182 mm	P2530-H, P2531-H	3085 0400 20
	Spot weld chisel	19 mm	145 mm	P2530-R, P2531-R	3085 0400 21
		19 mm	145 mm	P2530-H, P2531-H	3085 0400 22

	Designation	Width	Length	For tool	Ordering No.
	Rivet snap 3 Rivet size 3 mm		90 mm	P2530-R, P2531-R	3085 0400 23
	Rivet snap 4 Rivet size 4 mm		90 mm	P2530-R, P2531-R	3085 0400 24
	Rivet snap 5 Rivet size 5 mm		90 mm	P2530-R, P2531-R	3085 0400 25
	Rivet snap 6 Rivet size 6 mm		90 mm	P2530-R, P2531-R	3085 0400 26
	Chisel blank	16 mm	250 mm	P2535-R	3085 0400 27
		16 mm	300 mm	P2535-R	3085 0400 28
		16 mm	250 mm	P2535-H	3085 0400 29
		16 mm	300 mm	P2535-H	3085 0400 30
		20 mm	250 mm	P2536-R	3085 0400 31
		20 mm	300 mm	P2536-R	3085 0400 32
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 33
		20 mm	300 mm	P2536-H, P2539-H	3085 0400 34
	Flat chisel	16 mm	200 mm	P2535-R	3085 0400 35
		16 mm	200 mm	P2535-H	3085 0400 36
		20 mm	250 mm	P2536-R	3085 0400 37
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 38
	Point chisel	16 mm	200 mm	P2535-R	3085 0400 39
		16 mm	200 mm	P2535-H	3085 0400 40
		20 mm	250 mm	P2536-R	3085 0400 41
		20 mm	250 mm	P2536-H, P2539-H	3085 0400 42
	Wide flat chisel	25 mm	200 mm	P2535-R	3085 0400 43
		25 mm	200 mm	P2535-H	3085 0400 44
		32 mm	250 mm	P2536-R	3085 0400 45
		32 mm	250 mm	P2536-H, P2539-H	3085 0400 46

# Drilling



Atlas Copco handheld drills are built to provide consistent reliability and performance in a wide range of applications, such as drilling in steel, composites and other materials. The advanced ergonomic designs of the tools makes your job easier, safer and more efficient.

## Selection Guide

### Drilling

The speed for a specific drilling operation should be chosen on the basis of; the material, the workpiece and the diameter of the hole.

Drills	Mild steel 20–30 m/min	Alloy steel 5–15 m/min	Cast iron 15–20 m/min	Aluminum & bronze 50–80 m/min	Wood & board 80–150 m/min	Composite 50–100 m/min
r/min	Drill dia. mm	Drill dia. mm	Drill dia. mm	Drill dia. mm	Drill dia. mm	Drill dia. mm
20000				1.0	1.0 - 2.0	1.0 - 2.0
6000	1.0 - 2.0		1.0	2.0 - 4.0	4.0 - 8.0	3.0 - 5.0
5400	1.0 - 2.0		1.0	3.0 - 5.0	4.0 - 8.0	3.0 - 6.0
4500	1.0 - 2.0	1.0	1.0	4.0 - 6.0	6.0 - 10.0	4.0 - 7.0
3300	2.0 - 3.0	1.0	1.0 - 2.0	5.0 - 8.0	8.0 - 12.0	5.0 - 9.0
2400	2.5 - 6.0	1.0 - 2.0	2.0 - 3.0	6.0 - 8.0	8.0 - 13.0	
2000	2.5 - 6.0	1.0 - 2.0	2.0 - 4.0	7.0 - 10.0	8.0 - 13.0	
1000	6.0 - 10	2.0 - 5.0	5.0 - 6.0			
750	8.0 - 13.0	2.0 - 7.0	7.0 - 9.0			
500	8.0 - 13.0	3.0 - 10.0	10.0 - 13.0			

# Drills



LBB16EPX

Atlas Copco **LBB16** drills are ergonomically designed and equipped with rubber pistol grip handles to reduce vibration and temperature differences. The tools are quiet and lubrication free for a clean working environment and operator comfort.

Model	Max free speed r/min	Max output kW	Chuck capacity mm	Weight kg	Air consumption at max output l/s	Rec hose size mm	Air inlet thread BSP	Including chuck guard	Including support handle	With chuck		Without chuck	
										Ordering No.	Model	Ordering No.	
LBB16 EPX-005	500	340	10	0.7	9.5	6.3	1/4"	-	●	8421 0108 08	005-U	8421 0108 09	
LBB16 EPX-010	1000	340	10	0.7	9.5	6.3	1/4"	-	●	8421 0108 12	010-U	8421 0108 03	
LBB16 EPX-024	2400	340	6.5	0.6	9.5	6.3	1/4"	●	-	8421 0108 22	024-U	8421 0108 23	
LBB16 EPX-033	3300	340	6.5	0.6	9.5	6.3	1/4"	●	-	8421 0108 32	033-U	8421 0108 33	
LBB16 EPX-045	4500	340	6.5	0.6	9.5	6.3	1/4"	●	-	8421 0108 42	045-U	8421 0108 43	
LBB16 EPX-060	6000	340	6.5	0.6	9.5	6.3	1/4"	●	-	8421 0108 52	060-U	8421 0108 53	
LBB16 EPX-200	20000	340	6.5	0.6	9.5	6.3	1/4"	●	-	8421 0108 82	200-U	8421 0108 63	

## Accessories

### Quick chucks

Mount	Chuck dia mm	Chuck capacity mm	Ordering No.
UNF 3/8"-24	34	0.0- 6.5	4021 0400 00
UNF 3/8"-24	34	0.0- 8.0	4021 0401 00
UNF 3/8"-24	36	0.0-10.0	4021 0402 00
UNF 3/8"-24	36	2.0-13.0	4021 0403 00



Quick chuck

### Support handle

For model	Ordering No.
LBB16	4110 1355 92



Support handle

### Chuck guard

For model	Max chuck dia mm	Ordering No.
LBB16 <sup>a</sup>	30	4110 1619 04

<sup>a</sup> The guards do not fit 1000 r/min models and 500 r/min.



Chuck guard

### Key chucks

Mount	Body diameter mm	Chuck capacity mm	Ordering No.		
			Chuck (key incl)	Key only	Key designation
UNF 3/8"-24	30	0.0- 6.5	4021 0283 00	4021 0293 00	S1
UNF 3/8"-24	30	0.5- 8.0	4021 0495 00	4021 0293 00	S1
UNF 3/8"-24	36	2.0-10.0	4021 0416 00	4021 0449 00	S8
UNF 3/8"-24	46	2.0-13.0	4021 0289 00	4021 0465 00	S2



Key chuck

## Productivity Kits

Model	Economical air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For drills with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13-1/4"	21 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11

# Drills



D2121/D2121Q

PRO drills are all-metal and designed with operator comfort in mind. They come in three different versions, pistol grip, straight grip and angle grip. They are available with key chuck or quick change chuck.



D2163



D2112/D2116



D2112Q/D2116Q



D2160Q

Model	Max free speed r/min	Max output kW	Chuck capacity mm	Weight kg	Air consumption at max output l/s	Rec hose size mm	Air inlet thread BSP	Drill type handle			Chuck type		Ordering No.	
								Pistol	Straight	Angle	Reversible	Key		Quick
D2112	5400	350	0-6.5	1	10	10	1/4"	●	-	-	-	●	-	8421 0405 05
D2112Q	5400	350	1.5-10	1	10	10	1/4"	●	-	-	●	-	●	8421 0405 10
D2116	2400	350	1.5-10	1	10	10	1/4"	●	-	-	-	●	-	8421 0405 13
D2116Q	2400	350	1.5-10	1	10	10	1/4"	●	-	-	-	-	●	8421 0405 15
D2116-R	2400	350	1.5-10	1	10	10	1/4"	●	-	-	●	●	-	8421 0405 16
D2116-RQ	2400	350	1.5-10	1	10	10	1/4"	●	-	-	●	-	●	8421 0405 17
D2121	750	350	2-13	1.4	10	10	1/4"	●	-	-	-	●	-	8421 0405 21
D2121Q	750	350	1.5-13	1.4	10	10	1/4"	●	-	-	-	-	●	8421 0405 25
D2148-R	750	250	2-13	1.5	10	10	1/4"	●	-	-	●	●	-	8421 0407 03
D2148-RQ	750	250	1.5-13	1.5	10	10	1/4"	●	-	-	●	-	●	8421 0407 05
D2160	2400	460	1.5-10	0.9	11	10	1/4"	-	●	-	-	●	-	8421 0410 16
D2160-Q	2400	460	1.5-10	0.9	11	10	1/4"	-	●	-	-	-	●	8421 0410 20
D2163	2000	330	1.5-10	1.1	9.3	10	1/4"	-	-	●	-	●	-	8421 0410 08
D2163-Q	2000	330	1.5-10	1.1	9.2	10	1/4"	-	-	●	-	-	●	8421 0410 15

## Accessories

	<b>Ordering No.</b>
1–6.5 mm chuck capacity (standard with D2112)	4021 0444 00
1.5–10 mm chuck capacity (standard with D2116, D2163)	4021 0446 00
2–13 mm chuck capacity (standard with D2121, D2148-R)	4021 0447 00
1–10 mm keyless chuck (standard with D2112Q, D2116Q)	4021 0497 00
1.5–13 mm keyless chuck (standard with D2121Q, D2148-RQ)	4021 0496 00
Quick-change chuck for 1/4" bits mount 3/8"-24 UNF	4021 0443 00
Exhaust air hose ( D2112, D2116, D2121)	4210 2053 00
Exhaust air hose (2148-R)	4210 2929 00
Exhaust air hose (D2163, D2163)	4150 1077 80
Support handle (D2163)	4110 1355 85
Support handle (D2160)	4110 1355 81

## Productivity kits

<b>Model</b>	<b>Economical air flow</b>	<b>Hose, 5 m</b>	<b>Coupling</b>	<b>Lubrication</b>	<b>Ordering No.</b>
<b>For drills and nutrunners with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11

# Product safety

## This is your responsibility

Always read and understand the safety information supplied with the tool and on [www.atlascopco.com](http://www.atlascopco.com)  
All locally legislated safety rules regarding installation, operation and maintenance shall be respected at all times.

### 1. Check the free speed

- The measured speed at a pressure of 6.3 bars must not exceed the rated speed, which is marked on the grinder.
- Remove the grinding wheel and outer flange before checking the free speed.
- Carry out checks daily.
- Make sure the speed marking on the tool is legible.
- Return the machine for repair in the event of overspeeding.



### 2. Check the wheel guard

The wheel guard protects your health and safety.

- Always use the recommended wheel guard.
- Check that it is not damaged.
- Never use a grinder without the wheel guard.
- Position the wheel guard between yourself and the grinding wheel.

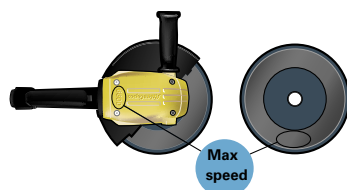
Check that the trigger is working correctly.

- The trigger must never be removed or fixed by tape for example.
- If the trigger is not working properly, make sure that it is replaced.



### 3. Maximum speed

Make sure that the stated maximum speed of the grinding wheel is greater than or equal to the speed specified on the grinder.



### 4. Check the grinding wheel

Make sure that the grinding wheel is not cracked or damaged in any way.

- The grinding wheel should have the correct hole dimensions and be fitted correctly on the spindle to avoid unbalanced vibrations.
- Damaged grinding wheels must be removed and replaced immediately.
- Do not use dropped or damaged wheels, as these can cause serious injuries.



### 5. Check the flange and wheel

Make sure that flange and wheel combinations correspond to national regulations.

- Check that the flanges are undamaged and clean.
- Attach the wheel with the recommended torque.
- Always disconnect the air supply when changing the wheel or adjusting the tool.
- Test-run your grinder in a protected area after assembling the wheel.
- Check that the grinder is working correctly.



## 6. Personal protection equipment

Make sure that operators wear:

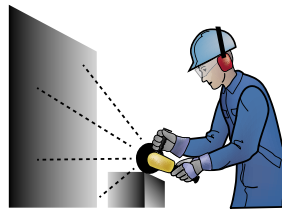
- Eye protection, goggles or a visor.
- Ear protection.
- Gloves.
- Steel toe-capped shoes.
- Protective clothing, such as a leather apron.
- A helmet (for heavier applications).
- Avoid loosely hanging clothing, hair, jewellery (risk of getting caught).



## 7. Working area

Ensure that the area in which you are working is kept free from other people so that no one can get injured.

- People nearby must also wear hearing and eye protection.
- Check that there is good ventilation and dust extraction from the premises.
- There should be a stand or a place available, on which the machine can be safely placed.
- Work within a sealed-off area, if possible with protecting walls, since there is a risk that broken discs could fly off.



## During work

Stop using the grinder if abnormally loud noises and vibrations occur during use. The grinder and its accessories must not be modified in any way.

## After the work is finished

Make sure the machine is switched off and has come to a complete stop before it is put down. Put down the tool carefully, so that there is no risk of the tool starting by itself.



## Maintenance

Make sure you follow the service instructions provided and the recommended service intervals. Do not dismantle safety-related parts such as the speed governor and overspeed shut off. These parts should be completely replaced when damaged.

Grinding wheel dia mm	Peripheral speed in meters per second														
	10	15	20	25	28	30	33	35	40	45	48	50	60	72	80
25	7640	11460	15280	19100	21390	22920	25210	26740	30560	34380	36670	38200	45840	55030	61120
40	4770	7160	9550	11930	13370	14320	15750	16710	19100	21480	22920	23870	28650	34390	38200
50	3820	5730	7640	9550	10690	11460	12600	13370	15280	17190	18330	19100	22920	27520	30560
63	3303	4540	6060	7560	8480	9090	10000	10610	12120	13640	14550	15150	18190	21840	24250
80	2380	3580	4770	5960	6680	7160	7870	8350	9550	10740	11460	11930	14320	17200	19100
100	1910	2860	3820	4770	5340	5730	6300	6680	7640	8590	9160	9550	11460	13760	15280
115	1660	2490	3320	4150	4650	4980	5480	5810	6640	7470	7970	8300	9960	11960	13400
125	1520	2290	3050	3820	4270	4580	5040	5340	6110	6870	7330	7640	9160	11000	12280
150	1270	1910	2540	3180	3560	3820	4200	4450	5090	5730	6110	6360	7640	9170	10180
180	1060	1590	2120	2650	2970	3180	3500	3710	4240	4770	5090	5300	6360	7640	8480
200	950	1430	1910	2380	2670	2860	3150	3340	3820	4290	4580	4770	5730	6880	7640
230	830	1240	1660	2070	2320	2490	2740	2900	3320	3730	3980	4150	4980	5980	6640
250	760	1140	1520	1910	2130	2290	2520	2670	3050	3430	3660	3820	4580	5500	6110
300	630	950	1270	1590	1780	1910	2100	2220	2540	2860	3050	3180	3820	4590	5090

# ***FASTENING TOOLS***

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[www.atlascopco.com/fasteningtools](http://www.atlascopco.com/fasteningtools)



[www.atlascopco.com/boltingsolutions](http://www.atlascopco.com/boltingsolutions)

# Impact Wrenches



Atlas Copco's powerful impact wrenches are designed to cut production times by providing rapid rundown and fast tightening. They offer high reliability and are designed to give trouble-free operation in the toughest conditions. Few tools can match Atlas Copco impact wrenches when it comes to capacity-to-weight ratio and simplicity in use and maintenance.

## Selection Guide

Square drive size in	Recommended Torque range	Bolt size	Max torque
3/8	7 - 90	6 - 10	150
1/2	10 - 375	10 - 16	850
3/4	100 - 800	16 - 20	1900
1	300 - 1800	20 - 30	4450
1 1/2	1000 - 5500	30 - 42	10000

Impact and ratchet wrenches recommended torque range							
Nm	S2480 S2481 W2610 W2611	LMS08 W2110 W2111 W2620 W2621	LMS18 W2210 W2211 W2810 W2811 W2630 W2631	LMS28 W2216 W2815	LMS38 W2219 W2820 W2820LA	W2220 W2225C W2226 W2227 W2227 W2228 W2227LA W2228LA	LMS48 LMS58 LMS68 LMS88
3640							M42
2280							M36
1310							M30
961							M27
665							M24
518							M22
385							M20
275							M18
197							M16
128							M14
81							M12
47							M10
24							M8
5,7/9,8							M5/M6

# Impact wrenches



LMS58 HR25

LMS pistol grip impact wrenches have a wide operating range. Equipped with an advanced impact mechanism, LMS will give you powerful tightening and disassembly with negligible reaction force.

The high capacity-to-weight ratio and state-of-the-art impact mechanism also help to minimize operator strain and vibration.

The tools have a Grease Retaining System ensuring optimum tool performance with long service intervals.



LMS18 HR13



LMS38 HR13

Model	Bolt size mm	Square drive size in	Torque range Nm	Max torque Nm	Free speed r/min	Weight kg	Length excl anvil mm	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Retainer			Ordering No.
											Pin	Ring	Through hole	
LMS08 HR10	M6-8	3/8"	7-45	65	14000	0.90	185	2.5	6.3	1/4"	●	-	-	8434 1080 00
LMS08 HR42	M6-8	1/4" <sup>a</sup>	7-35	60	14000	0.9	186	2.5	6.3	1/4"	-	-	-	8434 1080 05
LMS18 HR13	M10	1/2"	10-110	150	8100	1.45	144	8.5	10	1/4"	●	-	-	8434 1180 00
LMS18 HR10	M10	3/8"	10-90	120	8100	1.45	148	6.5	10	1/4"	●	-	-	8434 1180 01
LMS18 HR13/F	M10	1/2"	10-110	150	8100	1.45	144	8.5	10	1/4"	-	●	-	8434 1180 02
LMS18 HR10/F	M10	3/8"	10-90	120	8100	1.45	148	6.5	10	1/4"	-	●	-	8434 1180 03
LMS28 HR13	M12	1/2"	30-210	390	9500	1.85	146	8.5	10	3/8"	●	-	-	8434 1280 00
LMS28 HR13/F	M12	1/2"	30-210	390	9500	1.85	146	8.5	10	3/8"	-	●	-	8434 1280 01
LMS38 HR13	M14-16	1/2"	40-375	850	8000	2.6	167	10	10	3/8"	●	-	-	8434 1380 00
LMS38 HR13/F	M14-16	1/2"	40-375	850	8000	2.6	167	10	10	3/8"	-	●	-	8434 1380 01
LMS48 HR20	M16-18	3/4"	100-550	1375	6500	3.3	173	12	12.5	3/8"	-	-	●	8434 1480 00
LMS58 HR25	M20-22	1"	300-800	1900	5500	4.8	210	14.5	12.5	3/8"	-	-	●	8434 1580 00
LMS58 HR20	M18-20	3/4"	300-800	1900	5500	4.8	210	14.5	12.5	3/8"	-	-	●	8434 1580 01
LMS68 HR25	M22-30	1"	600-1800	4450	5000	9.8	252	28	16	1/2"	-	-	●	8434 1680 01
LMS68 HR S5	M22-30	1 5/8" <sup>b</sup>	600-1800	4450	5000	9.8	252	28	16	1/2"	-	-	-	8434 1680 03

<sup>a</sup> Female hex quick change chuck

<sup>b</sup> Spline drive No. 5

Torque measured from Skidmore with fixed sensors



LMS68 GIR25

LMS straight versions offer superior performance with a maximum torque of 10,000 reaction-free Nm.

The high capacity-to-weight ratio and advanced impact mechanism also help to minimize operator strain and vibration.

The tools have a Grease Retaining System ensuring optimum tool performance with long service intervals.



LMS08 SR10

Model	Bolt size mm	Square drive size in	Torque range Nm	Max torque Nm	Free speed r/min	Weight kg	Length excl anvil mm	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Retainer			Ordering No.
											Pin	Ring	Through hole	
LMS08 SR42	M22-30	1/4" <sup>a</sup>	7-35	60	12500	0.85	185	5,5	6.3	1/4"	-	-	-	8434 1081 06
LMS08 SR10	M22-30	3/8"	7-45	65	12500	0.85	184	5,5	6.3	1/4"	●	-	-	8434 1081 11
LMS68 GIR25	M22-30	1"	600-1800	4450	5000	9.6	339	28	16	1/2"	-	-	●	8434 1680 00
LMS68 GOR25	M22-30	1"	600-1800	4450	5000	9.6	339	28	16	1/2"	-	-	●	8434 1680 02
LMS68 GIR S5	M30-42	1 5/8" <sup>b</sup>	600-1800	4450	5000	9.6	339	28	16	1/2"	-	-	-	8434 1680 05
LMS68 GOR S5	M30-42	1 5/8" <sup>b</sup>	600-1800	4450	5000	9.6	339	28	16	1/2"	-	-	-	8434 1680 10
LMS88 GIR38	M30-42	1 1/2"	1000-5500	10000	3800	15.0	381	33	16	1/2"	-	-	●	8434 1880 00
LMS88 GOR38	M30-42	1 1/2"	1000-5500	10000	3800	15.0	381	33	16	1/2"	-	-	●	8434 1880 01
LMS88 GIR S5	M14-16	1 5/8" <sup>b</sup>	1000-5500	10000	3800	15.0	381	33	16	1/2"	-	-	-	8434 1880 05
LMS88 GOR S5	M14-16	1 5/8" <sup>b</sup>	1000-5500	10000	3800	15.0	381	33	16	1/2"	-	-	-	8434 1880 10

<sup>a</sup> Female hex. quick change chuck.

<sup>b</sup> Spline drive No. 5.

GOR = Outside trigger.

GIR = Inside trigger.

Torque measured from Skidmore with fixed sensors

## Accessories

Suspension yoke	Ordering No.
LMS68 GIR25/GOR25/GIRS5/GORS5/HRS5/HR25	4250 0677 81
LMS88 GIR38/GOR38 GIRS5/GORS5	0371 1102 00

Suspension yoke included LMS08-58

## Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small impacts with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EP EQ08-C08	7.5 l/s	Cablair 8 mm	ErgoQIC 08	Yes	8202 0850 35
<b>For 1/2" impact wrenches and pulse tools with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ08-C10	13 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 37
MIDI Optimizer F/RD EQ10-R10	13 l/s	Rubber 10 mm	ErgoQIC 10	Yes	8202 0850 38
<b>For impact wrenches and pulse tools with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13	21 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 39
<b>For impact wrenches and pulse tools with 1/2" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 41
MAXI F/RD C-T20	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Impact wrenches



W2815

PRO compact impact wrenches are lightweight tools with composite housings. They are an excellent choice for tackling the toughest industrial jobs in any application requiring high torque output.



W2810



W2820 / W2820A

Model	Bolt size mm	Square drive size in	Torque range Nm	Max torque Nm	Free speed r/min	Weight kg	Length incl. anvil mm	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
W2810	M14	3/8" <sup>b</sup>	200-360	470	10000	1.3	160	10	10	1/4"	8434 1248 10
W2811	M14	1/2" <sup>b</sup>	200-360	470	10000	1.3	160	10	10	1/4"	8434 1248 11
W2811 Pin retainer	M14	1/2"	200-360	470	10000	1.3	160	10	10	1/4"	8434 1248 12
W2815	M16	1/2" <sup>b</sup>	300-680	1085	7400	2.0	191	16	10	1/4"	8434 1248 15
W2815 Pin retainer	M16	1/2"	300-680	1085	7400	2.0	191	16	10	1/4"	8434 1248 16
W2820	M22	3/4" <sup>b</sup>	350-920	1490	4500	3.8	240	20	13	3/8"	8434 1248 20
W2820 LA	M22	3/4" <sup>b</sup>	350-920	1490	4500	3.8	240	20	13	3/8"	8434 1248 21
W2810 XP	M14	3/8" <sup>b</sup>	200-360	470	10000	1.8	160	10	10	1/4"	8434 1248 30
W2811 XP	M14	1/2" <sup>b</sup>	200-360	470	10000	1.8	160	10	10	1/4"	8434 1248 31
W2815 XP	M16	1/2" <sup>b</sup>	300-680	1085	7400	2.7	191	16	10	1/4"	8434 1248 35
W2820 XP	M22	3/4" <sup>b</sup>	350-920	1490	4500	4.5	240	20	13	3/8"	8434 1248 40

Torque capacity from Skidmore test to calculated value

<sup>b</sup> Ring retainer

XP - ATEX directive I M2 II 2G IIB T4 II2D 135°



W2216

These classic impact wrenches are a good choice for heavy equipment maintenance, general assembly, or other applications requiring high torque output. They get the job done easily and quickly.



W2225C



W2228



W2110 / W2111



W2219













W2220 / W2226C

Model	Bolt size mm	Square drive size in	Torque range Nm	Max torque Nm	Free speed r/min	Weight kg	Length incl. anvil mm	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
W2110	M12	1/4" <sup>a</sup>	13-70	94	8000	1.0	160	8.7	10	1/4"	8434 1244 20
W2111	M12	3/8" <sup>b</sup>	13-70	94	8000	1.0	154	8.7	10	1/4"	8434 1244 23
W2210A	M14	3/8" <sup>b</sup>	70-180	270	9000	1.7	160	8.7	10	1/4"	8434 1244 31
W2211	M14	1/2" <sup>b</sup>	70-180	270	9000	1.7	160	8.7	10	1/4"	8434 1244 33
W2216	M16	1/2" <sup>b</sup>	150-640	720	7000	2.5	195	11.6	10	1/4"	8434 1244 75
W2216 KIT*	M16	1/2" <sup>b</sup>	150-640	720	7000	2.5	195	11.6	10	1/4"	8434 1244 75
W2219	M22	3/4" <sup>b</sup>	450-700	1030	3800	5.1	255	12.0	10	1/4"	8434 1244 37
W2220	M30	3/4" <sup>b</sup>	670-1200	1300	3800	6.3	270	18.0	13	1/2"	8434 1244 39
W2225C	M36	1" <sup>c</sup>	810-1500	2710	4000	10.1	290	36.0	13	1/2"	8434 1244 54
W2226C	M30	1" <sup>c</sup>	670-1200	1300	3800	6.8	270	18.0	13	1/2"	8434 1244 56
W2227	M30	1" <sup>c</sup>	670-1200	1300	5000	6.8	355	18.0	13	1/2"	8434 1244 58
W2227LA	M30	1" <sup>c</sup>	670-1200	1300	5000	7.1	507	18.0	13	3/8"	8434 1244 59
W2228	M36	1" <sup>c</sup>	810-1500	2710	3800	11.6	410	36.0	13	1/2"	8434 1244 62
W2228LA	M36	1" <sup>c</sup>	810-1500	2710	4000	11.8	560	36.0	13	1/2"	8434 1244 63

Torque capacity from Skidmore test to calculated value  
\*Sockets 13, 15, 17, 19, 24 mm included

<sup>a</sup> Female hex quick change chuck  
<sup>b</sup> Ring retainer  
<sup>c</sup> Through hole and ring retainer








# Accessories

		W2810	W2811	W2815	W2815 Pin retainer	W2820	W2820LA	W2219
Suspension yoke		4112 3001 45	4112 3001 45	4112 3001 35	4112 3001 35	4112 3001 54	4112 3001 54	
Protective cover		4112 1500 11	4112 1500 11	4112 1500 15	4112 1500 15			4112 0396 00
Anvils		4112 3006 91*	4112 3006 97*	4112 3005 91*	4112 3005 91	4112 3006 99	4112 3006 99	4112 0375 90 *
Standard length	Ring retainer							
		4112 1500 27	4112 1500 30	4112 1500 33	4112 1500 33	4112 1500 34*	4112 1500 34	
		4112 1500 28	4112 1500 31	4112 3005 99	4112 3005 99*			
	Pin retainer							
		4112 1500 29	4112 1500 29					
	Quick change 7/16"							
						4112 1500 32	4112 1500 32	
6"	Ring retainer							
						4112 1500 35	4112 1500 35*	
6"	Through hole and ring retainer							

\* Included with tool



Model		Ordering No.
W2811 KIT	Tool kit with sockets WS 1002 and protective cover	8499 8434 81
W2815 KIT	Tool kit with sockets WS 1002 and protective cover	8499 8434 80

		W2220	W2226	W2227	W2225C	W2228
Anvils						
		4114 1430 00*				
Standard	Ring retainer					
		4112 1500 23	4112 1432 00*	4112 1432 00*	4112 0824 80*	4112 0824 80*
	Through hole and ring retainer					
		4112 1431 00	4112 1433 00	4112 1433 00	4112 0830 80**	4112 0830 80**
6"	Pin retainer					
			4112 1434 00	4112 1434 00		
8"	Through hole and ring retainer					

\*Included with tool

\*\*Length 5 5/8"

## Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small impacts with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EP EQ08-C08	7.5 l/s	Cablaire 8 mm	ErgoQIC 08	Yes	8202 0850 35
<b>For 1/2" impact wrenches and pulse tools with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ08-C10	13 l/s	Cablaire 10 mm	ErgoQIC 08	Yes	8202 0850 37
MIDI Optimizer F/RD EQ10-R10	13 l/s	Rubber 10 mm	ErgoQIC 10	Yes	8202 0850 38
<b>For impact wrenches and pulse tools with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13	21 l/s	Cablaire 13 mm	ErgoQIC 10	Yes	8202 0850 39
<b>For impact wrenches and pulse tools with 1/2" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-T13	21 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 41
MAXI F/RD C-T20	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

# Ratchet Wrenches



# Ratchet

wrenches



W2620 / W2621

PRO ratchet wrenches are powerful, reversible and designed for easy access in confined spaces. The tools are light, comfortable and easy to work with, due to their robust composite housing and high power-to-weight ratios.



W2610 / W2611



W2630 / W2631

Model	Bolt size mm	Square drive size in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air con- sumption l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
W2611	M8	1/4"	4-40	280	0.55	192	9	10	1/4"	8431 0350 11
W2610	M8	3/8"	4-40	280	0.55	192	9	10	1/4"	8431 0350 10
W2621	M12	3/8"	5-68	170	1.1	271	10	10	1/4"	8431 0350 21
W2620	M12	1/2"	5-68	170	1.1	271	10	10	1/4"	8431 0350 20
W2631	M14	3/8"	25-80	200	1.2	307	11	10	1/4"	8431 0350 31
W2630	M14	1/2"	25-80	200	1.2	307	11	10	1/4"	8431 0350 30

# Low Torque Applications



PRO screwdrivers are designed for precision fastening. These versatile, highly engineered fastening tools meet today's demands for industrial performance, accuracy and durability.

Different clutch types are available: direct drive, slip-clutch and shut-off coupling. There is also an impact drive version. Well-balanced for good ergonomics, PRO screwdrivers take productivity to a new level.

## Selection Guide

	Machine screw 4.8	Machine screw 8.8	Thread forming screw-M	Thread forming screw-ST	Thread forming screw-ST plastic	Self drilling screw-S	Wood screw
<b>Impact clutch grinders</b>	•	•	•	•		•	•
<b>Direct drive grinders</b>	◇	◇	◇	◇		•	•
<b>Slip clutch grinders</b>	◇	◇	◇	•	◇	•	•
<b>Shut-off clutch grinders</b>	•	•	•	◇	•	◇	

- Recommended
- ◇ Usable

# Screwdrivers

*impact drive and direct drive*



S2305

PRO Direct Drive Screwdrivers are suitable for self-drilling and wood screws. The tools are well balanced and quiet. A soft-start trigger ensures smooth operation and the air exhaust is adjustable through 360 degrees.

PRO Impact Drive Screwdrivers are lightweight tools offering a productive blend of operator comfort and exceptional performance. There are two models – both are reversible with a simple flip-off lever on the side of the tool handle.



S2480

Model	Bolt size mm	Quick change chuck in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air consumption l/s	Rec. hose size mm	Air inlet thread BSP	Ordering No.
<b>Impact drive</b>										
S2480	M5	1/4"	6-13	6500	0.8	132	10	6.3	1/4"	8431 0257 90
S2481	M6	1/4"	11-20	5000	0.9	143	8	6.3	1/4"	8431 0257 92
<b>Direct drive</b>										
S2305	M8	1/4"	0-12	750	0.9	198	5.6	6.3	1/4"	8431 0257 28
S2326	M6	1/4"	0-4.5	2400	0.8	178	5.6	6.3	1/4"	8431 0257 36

# Screwdrivers

*shut-off and slip clutch*



S2308-C / S2309-C / S2310-C

PRO Shut-off Screwdrivers offer impressively high torque accuracy. Our fast shut-off models deliver smooth performance and high quality tightening.

PRO Slip-Clutch Screwdrivers provide an implied pulsating force, or slip, once you reach the desired torque.

Both versions feature adjustable torque settings, trigger and push start for pistol grips, and lever and push start for straight models.



S2450-P / S2451-P / S2452-P



S2340-C / S2360-C / S2370-C



S2416-L / S2426-L / S2428-L

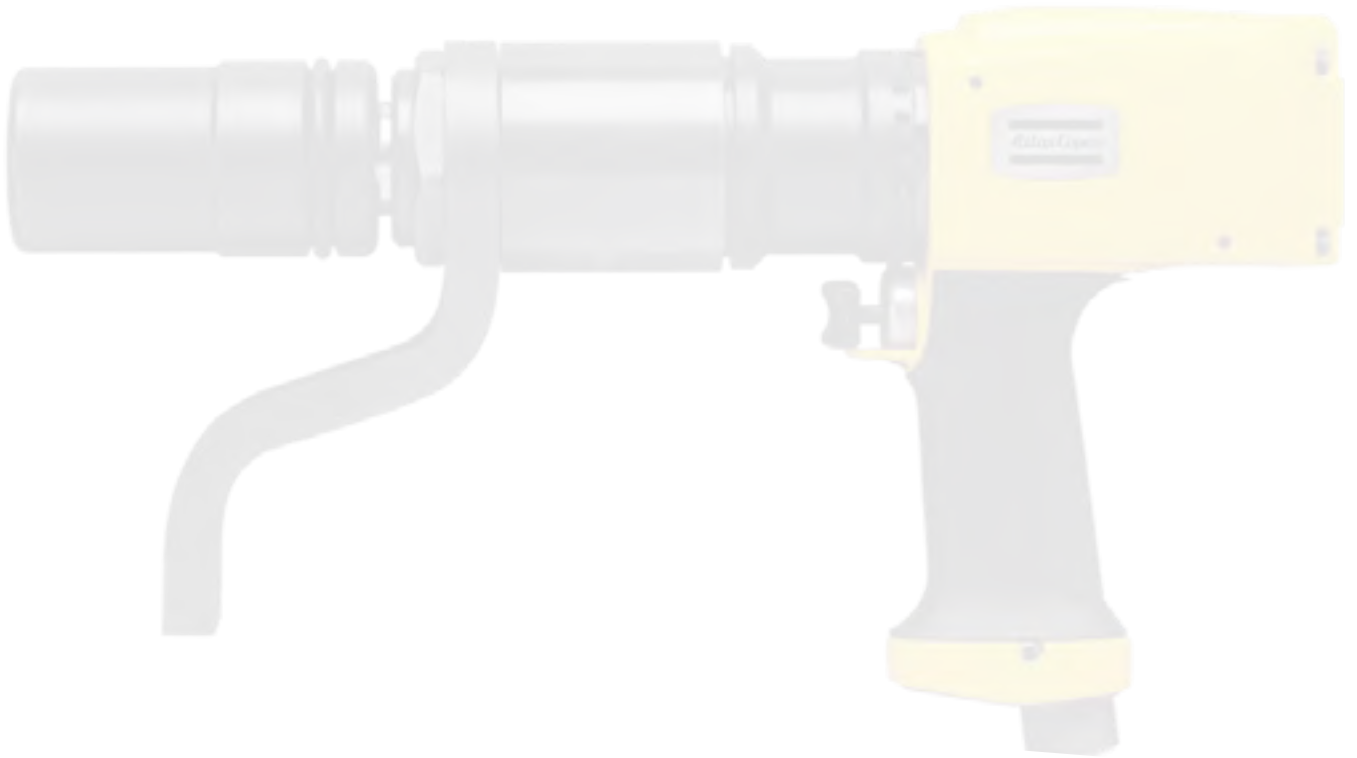
Model	Screw capacity mm	Quick change chuck in	Torque range Nm	Free speed r/min	Weight kg	Length mm	Air consumption at free speed l/s	Recommended hose size mm	Air inlet thread BSP	Starting method			Ordering No.
										Push	Push and trigger/lever	Trigger/lever	
<b>Slip clutch</b>													
S2308-C	M6	1/4"	2.5-11	950	1.1	225	8.4	10.0	1/4"	-	●	-	8431 0257 20
S2309-C	M5	1/4"	1.5-7.5	1200	1.0	245	7.0	10.0	1/4"	-	●	-	8431 0257 22
S2310-C	M5-8	1/4"	2-15	800	1.1	225	8.5	6.3	1/4"	-	●	-	8431 0257 24
S2307-CE	M6	1/4"	2.5-10	900	1.2	245	8.4	10.0	1/4"	-	-	●	8431 0257 26
S2340-C	M3	1/4"	0.5-2	1300	0.9	250	4.0	6.3	1/4"	-	●	-	8431 0257 40
S2360-C	M4-5	1/4"	1.3-7	700	0.9	260	4.0	6.3	1/4"	-	●	-	8431 0257 60
S2370-C	M5	1/4"	2-6	1300	0.9	250	4.0	6.3	1/4"	-	●	-	8431 0257 70
<b>Shut off</b>													
S2426-L	M4	1/4"	1.2-2.6	1500	0.9	230	6.0	10.0	1/4"	-	●	-	8431 0257 80
S2428-L	M4-5	1/4"	3.5-7	700	1.0	242	6.0	6.3	1/4"	●	-	-	8431 0257 81
S2416-L	M3	1/4"	0.5-1.6	1500	0.9	230	6.0	10.0	1/4"	-	●	-	8431 0257 82
S2450-P	M5	1/4"	2.4-5	1100	1.1	225	6.0	10.0	1/4"	-	-	●	8431 0257 84
S2451-P	M5	1/4"	3.5-7.5	800	1.1	250	7.0	10.0	1/4"	-	●	-	8431 0257 86
S2452-P	M6	1/4"	3.5-12	580	1.1	250	7.0	10.0	1/4"	-	●	-	8431 0257 87

S2307-CE external adjustable clutch

# High Torque Nutrunners



With the Atlas Copco LMP/LTP61 range of twin-motor pistol grip nutrunners you get the highest possible torque and speed in relation to the weight of the tool. Fast, accurate and highly user-friendly, the tools are available in reversible versions for maximum flexibility.



# High torque

*nutrunners*



LMP61 H900-25

The twin motors in the **LMP61** pistol grip nutrunner gives extremely fast rundown and high accuracy with minimum air consumption. The torque level on **LMP** models depends on the pressure of the air fed to the tool – higher pressure creates higher torque. A swiveling function makes tool positioning easy and they are available in reversible and non-reversible versions.

Model	Bolt size mm	Square drive in	Max torque at 6.3 bar Nm	Min torque at 3 bar Nm	Free speed r/min	Weight <sup>a</sup> kg	Length mm	Air consumption at free speed l/s	Recommended hose size mm	Air inlet thread BSP	Spline type	Ordering No.
<b>Non-reversible</b>												
LMP24 H005-10	M8	3/8"	30	14	500	1.0	210	11	10	1/4"	1	8431 0245 49
LMP24 H003-13	M8	1/2"	40	14	330	1.2	210	11	10	1/4"	1	8431 0245 64
LMP24 H002-13	M10	1/2"	58	27	240	1.3	230	11	10	1/4"	2	8431 0245 31
LMP61 H100-13	M12	1/2"	100	60	2200	3.0	223	20	13	3/8"	3	8431 0803 05
LMP61 H170-13	M14	1/2"	170	100	1400	3.0	223	20	13	3/8"	3	8431 0803 12
LMP61 H230-19	M16	3/4"	230	130	1000	3.0	223	20	13	3/8"	3	8431 0803 19
LMP61 H350-20	M18	3/4"	350	200	650	3.9	260	20	13	3/8"	4	8431 0803 26
LMP61 H500-20	M20	3/4"	500	300	450	3.9	260	20	13	3/8"	4	8431 0803 33
LMP61 H700-25	M22	1"	700	400	350	4.5	305	20	13	3/8"	5	8431 0803 40
LMP61 H900-25	M24	1"	900	500	260	4.5	282	20	13	3/8"	5	8431 0803 47
<b>Reversible</b>												
LMP24 HR011-10	M6	3/8"	10	5	860	1.0	210	11	10	1/4"	1	8431 0245 85
LMP24 HR005-10	M8	3/8"	22	10	380	1.0	210	11	10	1/4"	1	8431 0245 77
LMP24 HR003-13	M8	1/2"	30	14	250	1.2	210	11	10	1/4"	1	8431 0245 91
LMP24 HR002-13	M10	1/2"	40	20	180	1.3	230	11	10	1/4"	2	8431 0245 70
LMP61 HR100-13	M12	1/2"	100	60	2200	3.0	235	20	13	3/8"	3	8431 0804 04
LMP61 HR170-13	M14	1/2"	170	100	1400	3.0	238	20	13	3/8"	3	8431 0804 11
LMP61 HR230-19	M16	3/4"	230	130	1000	3.0	275	20	13	3/8"	3	8431 0804 18
LMP61 HR350-20	M18	3/4"	350	200	650	3.9	275	20	13	3/8"	4	8431 0804 25
LMP61 HR500-20	M20	3/4"	500	300	450	3.9	320	21	13	3/8"	4	8431 0804 32
LMP61 HR700-25	M22	1"	700	400	350	4.5	305	20	13	3/8"	5	8431 0804 39
LMP61 HR900-25	M24	1"	900	500	260	4.5	305	20	13	3/8"	5	8431 0804 46
LMP61 HR1500-25	M30	1"	1600	900	140	6.8	345	20	13	3/8"	9	8431 0804 53

<sup>a</sup> Weight excluding reaction bar.



LTP61 HR900-25-MT

**LTP61** pistol grip nutrunners are equipped with twin motors and a shut-off valve that ensures that the tool shuts down when the preset torque level is reached.


The torque-to-weight ratio is extremely high, and the tool is reversible. On the **LTP61 HR900-25-MT** a Multi Torque Selector makes it possible to preset up to four different shut-off levels. This is an efficient solution where various assembly operations take place, multistage tightening operations are required, or many torque settings are needed.

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar Nm	Min torque at 3 bar Nm	Free speed r/min	Weight <sup>a</sup> kg	Length mm	Air consumption at free speed l/s	Recommended hose size mm	Air inlet thread BSP	Spline type	Ordering No.
<b>Non reversible</b>												
LTP61 H100-13	M12	1/2"	55-100	45	1800	3.0	223	20	13	3/8"	3	8431 0800 07
LTP61 H170-13	M14	1/2"	95-170	70	1100	3.0	223	20	13	3/8"	3	8431 0800 14
LTP61 H230-19	M16	3/4"	125-230	85	820	3.0	223	20	13	3/8"	3	8431 0800 21
LTP61 H350-20	M18	3/4"	190-350	145	520	3.9	260	20	13	3/8"	4	8431 0800 28
LTP61 H500-20	M20	3/4"	275-500	220	360	3.9	260	20	13	3/8"	4	8431 0800 35
LTP61 H700-25	M22	1"	360-650	280	280	4.5	305	20	13	3/8"	5	8431 0800 42
LTP61 H900-25	M24	1"	480-870	300	210	4.5	282	20	13	3/8"	5	8431 0800 49
LTP61 H1500-25	M30	1"	850-1500	700	115	6.8	323	20	13	3/8"	9	8431 0800 56
<b>Reversible</b>												
LTP61 HR100-13	M12	1/2"	55-100	45	1800	3.0	235	20	13	3/8"	3	8431 0801 08
LTP61 HR170-13	M14	1/2"	95-170	70	1100	3.0	238	20	13	3/8"	3	8431 0801 15
LTP61 HR230-19	M16	3/4"	125-230	85	820	3.0	275	20	13	3/8"	3	8431 0801 22
LTP61 HR350-20	M18	3/4"	190-350	145	520	3.9	275	20	13	3/8"	4	8431 0801 29
LTP61 HR500-20	M20	3/4"	275-500	220	360	3.9	275	20	13	3/8"	4	8431 0801 36
LTP61 HR700-25	M22	1"	360-650	280	280	4.5	305	20	13	3/8"	5	8431 0801 43
LTP61 HR900-25	M24	1"	480-870	300	210	4.5	305	20	13	3/8"	5	8431 0801 50
LTP61 HR1500-25	M30	1"	850-1500	700	115	6.8	345	20	13	3/8"	9	8431 0801 57
LTP61 HR1900-38	M30	1 1/2"	1050-1900	800	90	14.1	380	20	13	3/8"	8	8431 0801 64
LTP61 HR2800-38	M36	1 1/2"	1550-2800	1200	65	14.1	380	20	13	3/8"	8	8431 0801 71
LTP61 HR3800-38	M42	1 1/2"	2100-3800	1600	50	14.1	380	20	13	3/8"	8	8431 0801 78
<b>Prevailing applications</b>												
<b>Non reversible</b>												
LTP61 PH100-13	M12	1/2"	60-110	45	700	3.0	223	20	13	3/8"	3	8431 0807 04
LTP61 PH170-13	M14	1/2"	100-180	70	440	3.0	223	20	13	3/8"	3	8431 0807 12
LTP61 PH230-19	M16	3/4"	130-240	90	320	3.0	223	20	13	3/8"	3	8431 0807 17
LTP61 PH350-20	M18	3/4"	210-370	150	200	3.9	260	20	13	3/8"	4	8431 0807 24
LTP61 PH500-20	M20	3/4"	300-520	200	140	3.9	260	20	13	3/8"	4	8431 0807 31
LTP61 PH700-25	M22	1"	400-680	280	100	4.5	305	20	13	3/8"	5	8431 0807 38
LTP61 PH900-25	M24	1"	500-900	350	80	4.5	282	20	13	3/8"	5	8431 0807 41
LTP61 PH1500-25	M30	1"	900-1600	650	45	6.8	323	20	13	3/8"	9	8431 0807 52
<b>Prevailing applications - reversible</b>												
LTP61 PHR1500-25	M30	1"	900-1600	650	45	6.8	345	20	13	3/8"	9	8431 0807 68
<b>Multi torque selector</b>												
LTP61 HR500-20-MT	M20	3/4"	275-500	220	360	4.2	325	20	13	3/8"	4	8431 0806 30
LTP61 HR700-25-MT	M22	1"	360-650	280	280	4.8	355	20	13	3/8"	5	8431 0806 33
LTP61 HR900-25-MT	M24	1"	480-870	300	210	4.8	355	20	13	3/8"	5	8431 0806 37
LTP61 HR1500-25-MT	M30	1"	850-1500	700	115	7.1	395	20	13	3/8"	9	8431 0806 44

<sup>a</sup> Weight excluding reaction bar.

# Bolting Solutions



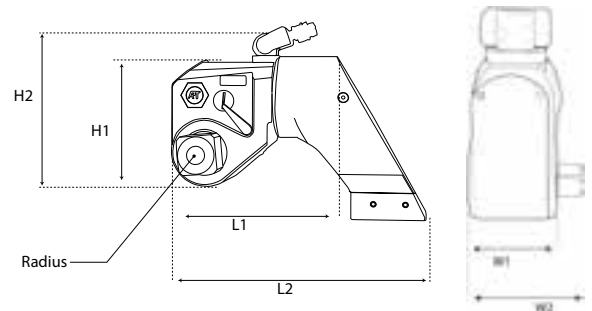


When designing Atlas Copco Rapid-Torc® hydraulic wrenches for very high torque applications, such as torquing flanges, the vision was to build tools that could be relied upon to achieve safe connections in some of the world's most critical applications. From design to manufacturing and calibration, Atlas Copco Rapid-Torc hydraulic wrenches are dedicated to this vision.

# Hydraulic wrenches



Rapid-Torc Hydraulic wrenches in the RT series offer extremely high torquing power. There are 9 models to choose from and output accuracy is at +/-3%.



Square Drive hydraulic torque wrench dimensions

Model	Dimensions													
	L1		L2		H1		H2		Radius		W1		W2	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
RT-0.5	3.15	81	4.87	125	2.35	60.5	3.62	93	0.52	13.5	1.3	33.5	1.97	50.5
RT-1	4.68	120	7.13	183	3.52	90.5	4.75	122	0.9	23	1.95	50	2.76	71
RT-3	6.04	155	9.24	237	4.68	120	6.08	156	1.28	33	2.59	66.5	3.72	95.5
RT-5	7.21	185	11.23	288	5.63	144.5	7.05	181	1.44	37	3.12	80	4.9	126
RT-8	7.85	202	12.49	321	6.42	164.6	8.4	213.36	1.62	41	3.48	88	4.95	126
RT-10	9	232	13.9	357	7.2	186	9.3	239	1.87	48	3.9	100	5.5	142.5
RT-20	10.2	259	16.55	420	8.5	216	9.9	251	2.17	55.1	4.7	119	6.7	170
RT-25	12	310	18.4	473	9.1	234	11	282	2.37	61	5.2	134	7.4	191
RT-50	15.2	390	23.9	615	11.4	294	13.4	344	30.8	79	6.5	167	8.9	228

Model	Torque						Weight		Ordering No.	
	Square drive	ft lb				Nm		lbs		kg
		in	min	max	min	max				
RT-0.5	1/2"	55	397	75	538	0.8	0.4	8434 2010 00		
RT-1	3/4"	200	1340	271	1817	3.8	1.9	8434 2010 02		
RT-3	1"	480	3230	651	4379	7.8	3.9	8434 2010 05		
RT-5	1-1/2"	835	5590	1132	7578	15	7.5	8434 2010 09		
RT-8	1-1/2"	1200	8000	1627	10845	23	11.5	8434 2010 13		
RT-10	1-1/2"	1755	11520	2379	15617	26.8	13.4	8434 2010 16		
RT-20	2-1/2"	2960	19760	4013	26787	36	18	8434 2010 20		
RT-25	2-1/2"	3960	25890	5368	35096	62	31	8434 2010 25		
RT-50	2-1/2"	7875	52500	10675	71169	96	48	8434 2010 29		

## RT Square drives

Model	Hex size	Ordering No.
RT0.5-HX-10MM	10 mm	8434 2138 44
RT0.5-HX-12MM	12 mm	8434 2138 47
RT0.5-HX-14MM	14 mm	8434 2138 50
RT0.5-HX-16MM	16 mm	8434 2138 53
RT0.5-HX-17MM	17 mm	8434 2138 56
RT0.5-HX-19MM	19 mm	8434 2138 62
RT0.5-HX-22MM	22 mm	8434 2138 68
RT0.5-HX-24MM	24 mm	8434 2101 71
RT01-HX-010	5/8"	8434 2138 71
RT01-HX-012	3/4"	8434 2138 74
RT01-HX-014	7/8"	8434 2138 77
RT01-HX-17MM	17 mm	8434 2056 96
RT01-HX-19MM	19 mm	8434 2056 98
RT01-HX-22MM	22 mm	8434 2057 02
RT01-HX-24MM	24 mm	8434 2057 04
RT01-HX-27MM	27 mm	8434 2057 06
RT03-HX-010	5/8"	8434 2057 14
RT03-HX-012	3/4"	8434 2057 16
RT03-HX-014	7/8"	8434 2057 18
RT03-HX-19MM	19 mm	8434 2057 22
RT03-HX-19MM-EXT	19 mm	8434 2139 40
RT03-HX-22MM	22 mm	8434 2057 24
RT03-HX-22MM-EXT	22 mm	8434 2116 22
RT03-HX-24MM	24 mm	8434 2057 26
RT03-HX-24MM-EXT	24 mm	8434 2116 25
RT03-HX-27MM	27 mm	8434 2057 28
RT03-HX-30MM	30 mm	8434 2139 46
RT03-HX-32MM	32mm	8434 2057 30
RT03-HX-36MM	36 mm	8434 2139 49
RT03-HX-36MM-EXT	36 mm	8434 2139 52
RT03-HX-38MM	38 mm	8434 2139 55
RT05-HX-24MM	24 mm	8434 2140 03
RT05-HX-27MM	27 mm	8434 2057 36
RT05-HX-27MM-EXT	27 mm	8434 2140 09
RT05-HX-32MM	32 mm	8434 2140 12
RT05-HX-32MM-EXT	32 mm	8434 2140 15
RT05-HX-36MM	36 mm	8434 2057 38
RT05-HX-41MM	41 mm	8434 2057 40
RT05-HX-41MM-EXT	41 mm	8434 2140 18
RT05-HX-46MM	46 mm	8434 2057 42
RT05-HX-55MM	55 mm	8434 2140 21
RT08-HX-24MM	24 mm	8434 2140 45
RT08-HX-27MM	27 mm	8434 2140 48
RT10-HX-32MM	32 mm	8434 2140 75
RT10-HX-36MM	36 mm	8434 2057 46
RT10-HX-41MM	41 mm	8434 2057 48
RT10-HX-46MM	46 mm	8434 2057 50
RT10-HX-46MM-EXT	46 mm	8434 2140 78
RT10-HX-50MM	50 mm	8434 2057 52

## Insert bit hex holder adapter

Model	Description	Ordering No.
H2-7/8	Hex holder Sq Dr 3/4"-7/8"	8434 2129 59
H4-1/2	Hex holder Sq Dr 1/2"-1/2"	8434 2056 58
H4-7/8	Hex holder Sq Dr 1/2"-7/8"	8434 2056 60
H5-1 3/4	Hex holder Sq Dr 1 1/2"-1 3/4"	8434 2129 62
H5-1-1/4	Hex holder Sq Dr 1 1/2"-1 1/4"	8434 2129 65
H9-1 1/4	Hex holder Sq Dr 1"-1 1/4"	8434 2129 68
H9-7/8	Hex holder Sq Dr 1"-7/8"	8434 2056 62

Model	Description	Ordering No.
7/8-10	Hex size 10 mm	8434 2054 24
7/8-12	Hex size 12 mm	8434 2054 26
7/8-14	Hex size 14 mm	8434 2054 30
7/8-17	Hex size 17 mm	8434 2054 32
7/8-19	Hex size 19 mm	8434 2054 34
7/8-22	Hex size 22 mm	8434 2054 36
7/8-24	Hex size 24 mm	8434 2054 38
7/8-27	Hex size 27 mm	8434 2123 32
1 1/4-24	Hex size 24 mm	8434 2050 18
1 1/4-27	Hex size 27 mm	8434 2050 20
1 1/4-28	Hex size 28 mm	8434 2050 22
1 1/4-29	Hex size 29 mm	8434 2050 24
1 1/4-30	Hex size 30 mm	8434 2050 26
1 1/4-32	Hex size 32 mm	8434 2050 28
1 1/4-33	Hex size 33 mm	8434 2050 30
1 1/4-36	Hex size 36 mm	8434 2124 13
1 3/4-36	Hex size 36 mm	8434 2050 40
1 3/4-40	Hex size 40 mm	8434 2124 16
1 3/4-41	Hex size 41 mm	8434 2050 42
1 3/4-46	Hex size 46 mm	8434 2050 44
1 3/4-50	Hex size 50 mm	8434 2050 46
7/8-1	Hex size 1"	8434 2054 20
1 1/4-1	Hex size 1"	8434 2050 12
1 1/4-1 1/16	Hex size 1 1/16"	8434 2124 10
1 1/4-1 1/4	Hex size 1 1/4"	8434 2050 14
1 1/4-1 1/8	Hex size 1 1/8"	8434 2050 16
1 3/4-1 1/2	Hex size 1 1/2"	8434 2050 32
1 3/4-1 3/4	Hex size 1 3/4"	8434 2050 34
1 3/4-1 3/8	Hex size 1 3/8"	8434 2050 36
1 3/4-1 5/8	Hex size 1 5/8"	8434 2050 38
7/8-1 12 PT	Hex size 1"-12pt	8434 2126 86
7/8-1/2	Hex size 1/2"	8434 2054 22
7/8-13/16	Hex size 13/16"	8434 2054 28
7/8-3/4	Hex size 3/4"	8434 2054 40
7/8-5/8	Hex size 5/8"	8434 2054 42
7/8-7/8	Hex size 7/8"	8434 2054 44
7/8-9/16	Hex size 9/16"	8434 2054 46

# Reaction arms

## Reaction arms

Model	Description	Ordering No.
RT0.5-ALC	Alco arm	4222 2126 76
RT0.5-EXT	Extended reaction arm	4222 2126 82
RT0.5-SSLV	Reaction sleeve	4222 2126 88
RT01-ALC	Alco arm	4222 2102 64
RT01-EXT	Extended reaction arm	8434 2056 92
RT01-SSLV	Reaction Sleeve	8434 2057 08
RT01-SSLVF	Reaction Sleeve w/Foot	8434 2057 09
RT03-ALC	Alco arm	8434 2057 10
RT03-CAM ARM	Reaction arm cameron style	4222 2130 12
RT03-EXT	Extended reaction arm	8434 2057 12
RT03-SLVF	Reaction sleeve W/Foot	4222 2130 21
RT03-SSLV	Steel reaction sleeve	8434 2057 32
RT05-03-CAM	Cam style reaction arm	4222 2130 48
RT05-3 CAM	Reaction arm cameron style	4222 2130 57
RT05-ALC	Alco arm	8434 2139 88
RT05-EXT	Extended reaction arm	8434 2057 34
RT05-SSLV	Steel reaction sleeve	8434 2140 30
RT08-ALC	Alco arm	8434 2140 36
RT08-EXT	Extended reaction arm	8434 2140 42
RT08-SSLV	Steel reaction sleeve	8434 2140 51
RT10-ALC	Alco arm	8434 2140 60
RT10-EXT	Extended reaction arm	8434 2140 66
RT10-SSLV	Steel reaction sleeve	8434 2140 90



Standard Reaction Arm



Extended Reaction Arm



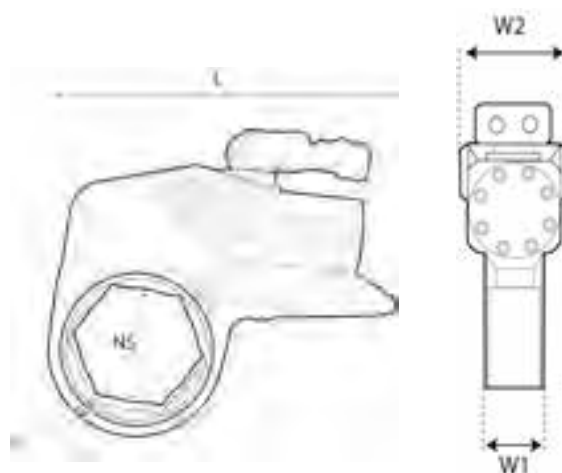
ALCO Reaction Arm

# Low profile

hydraulic torque wrench



Rapid-Torc hydraulic wrenches in the RTX Series eliminate problems with tight clearances. There are 6 models to choose from. Repeatability is +/-1% and output accuracy is at +/-3%.



RTX Direct fit low profile dimensions

Model	Dimensions									
	L		NS (based on ratchet link size)		R		W1		W2	
	in	mm	in	mm	in	mm	in	mm	in	mm
RTX-2	7.2	183	$\frac{3}{4} - 2^{9/16}$	19-65	0.35	9	1.26	32	1.92	49
RTX-4	9.7	248	$1 \frac{5}{16} - 3^{1/8}$	32-80	0.47	12	1.65	42	2.56	65
RTX-8	12.1	308	$1 \frac{13}{16} - 3^{7/8}$	46-100	0.59	15	2.08	53	3.22	82
RTX-14	14.6	372	$2 - 4^{5/8}$	50-120	0.72	18.5	2.48	63	3.89	99
RTX-18	15.5	393	$3 - 5^{1/2}$	75-140	0.87	22.2	2.75	70	4.37	111
RTX-30	18	457	$3 \frac{9}{16} - 6^{1/8}$	90-155	1	25.4	3.26	83	5.28	132

Model	Ratchet link hex size*		Torque range		Weight		Ordering No.
	in	mm	ft lb	Nm	lbs	kg	
RTX-2	$\frac{3}{4} - 2 \frac{3}{4}$	19-65	255-1710	346-2318	4.5	2	8434 2021 90
RTX-4	$1 - 3^{1/8}$	25-85	580-3855	786-5226	9.7	4.4	8434 2021 95
RTX-8	$1^{5/8} - 4^{1/8}$	46-105	1143-8151	1549-11049	19.5	9	8434 2022 00
RTX-14	$2 \frac{1}{2} - 5^{3/8}$	60-135	2010-13400	2725-18165	33	15	8434 2116 58
RTX-18	$3 \frac{1}{2} - 5 \frac{1}{2}$	75-140	2676-17845	3628-24191	51	23	8434 2022 05
RTX-30	$3 \frac{1}{2} - 6 \frac{1}{2}$	90-165	4770-31800	6466-43108	78	35.5	8434 2022 10

\*RTX Hydraulic Torque Wrench is designed to have consistent torque output, regardless of hex size link. That means that you don't have to worry about different torque charts when changing direct hex link size.  
 #Reduced Radius Ratchets (RR) are .062" (1.57 mm) reduction compared to the standard size links.

# Ratchet links

## RTX-02 Direct fit ratchet link sizes

The following is a standard list of ratchet link sizes for use with RTX Powerheads.

Whatever the link size, you still only need one torque chart per Powerhead model.

Use the following link sizes with RTX-02, which has a torque range of 255 to 1,710 ft. lb.

### Links for RTX-02

Model	Description	Ordering No.
RL02-17MM	Ratchet link 17 mm	8434 2132 41
RL02-19MM	Ratchet link 19 mm	8434 2132 44
RL02-19MM RR	Ratchet link 19 mm-RR	8434 2132 47
RL02-22MM	Ratchet link 22 mm	8434 2132 74
RL02-24MM	Ratchet link 24 mm	8434 2020 54
RL02-27MM	Ratchet link 27 mm	8434 2020 57
RL02-30MM	Ratchet link 30 mm	8434 2132 77
RL02-104/32MM	Ratchet link 1 1/4"-32 mm	8434 2132 08
RL02-36MM	Ratchet link 36 mm	8434 2132 80
RL02-41MM	Ratchet link 41 mm	8434 2132 83
RL02-113/46MM	Ratchet link 1 13/16"-46	8434 2132 32
RL02-113/46MM RR	Ratchet link 1 13/16"RR	8434 2132 35
RL02-50MM	Ratchet link 50 mm	8434 2021 86
RL02-55MM	Ratchet link 55 mm	8434 2132 86
RL02-60MM	Ratchet link 60 mm	8434 2059 28
RL02-209/65MM	Ratchet link 2 9/16"-65	8434 2021 50
RL02-70MM	Ratchet link 70 mm	8434 2059 29
RL02-75MM	Ratchet link 75 mm	8434 2132 92

## RTX-04 Direct fit ratchet link sizes

Use the following link sizes with RTX-04, which has a torque range of 580 to 3,855 ft. lb.

### Links for RTX-04

Model	Description	Ordering No.
RL04-22MM	Ratchet link 22 mm	8434 2133 94
RL04-24MM	Ratchet link 24 mm	8434 2133 93
RL04-27MM	Ratchet link 27 mm	8434 2020 63
RL04-30MM	Ratchet link 30 mm	8434 2134 12
RL04-32MM	Ratchet link 32 mm	8434 2020 15
RL04-32MM 12pt	Ratchet link 32 mm-12pt	8434 2134 15
RL04-36MM	Ratchet link 36 mm	8434 2134 18
RL04-41MM	Ratchet link 41 mm	8434 2134 21
RL04-113/46MM	Ratchet link 1 13/16"-46	8434 2021 53
RL04-113/46MM RR	Ratchet link 1 13/16"-46-RR	8434 2116 01
RL04-50MM	Ratchet link 50 mm	8434 2134 30
RL04-55MM	Ratchet link 55 mm	8434 2134 36
RL04-55MM-RR	Ratchet link 55 mm-RR	8434 2134 39
RL04-60MM	Ratchet link 60 mm	8434 2134 45
RL04-209/65MM	Ratchet link 2 9/16"	8434 2133 70
RL04-70MM	Ratchet link 70 mm	8434 2021 62
RL04-75MM	Ratchet link 75 mm	8434 2020 21
RL04-80MM	Ratchet link 80 mm	8434 2134 51
RL04-85MM	Ratchet link 85 mm	8434 2134 54
RL04-90MM	Ratchet link 90 mm	8434 2059 30
RL04-95MM	Ratchet link 95 mm	8434 2059 31
RL04-100MM	Ratchet link 100 mm	8434 2059 32

Model	Description	Ordering No.
RL02-012	Ratchet link 3/4"	8434 2131 84
RL02-014	Ratchet link 7/8	8434 2020 00
RL02-100	Ratchet link 1"	8434 2020 03
RL02-100-12pt	Ratchet link 1"-12pt	8434 2131 93
RL02-101/27MM	Ratchet link 1 1/16"-27	8434 2131 96
RL02-102	Ratchet link 1 1/8"	8434 2131 99
RL02-102 12pt	Ratchet link 1 1/8"-12pt	8434 2132 02
RL02-103	Ratchet link 1 3/16"	8434 2132 05
RL02-104	Ratchet link 1 1/4"	8434 2021 69
RL02-104-12pt	Ratchet link 1 1/4"-32-12pt	8434 2132 11
RL02-107	Ratchet link 1 7/16"	8434 2021 68
RL02-107 RR	Ratchet link 1 7/16" RR	8434 2021 83
RL02-110	Ratchet link 1 5/8"	8434 2021 07
RL02-110 RR	Ratchet link 1 5/8" RR	8434 2021 08
RL02-113/46MM	Ratchet link 1 13/16"-46	8434 2132 32
RL02-113/46MM RR	Ratchet link 1 13/16"RR	8434 2132 35
RL02-200	Ratchet link 2"	8434 2132 50
RL02-200 RR	Ratchet link 2" RR	8434 2021 74
RL02-203	Ratchet link 2 3/16"	8434 2132 59
RL02-206	Ratchet link 2 3/8"	8434 2021 47
RL02-209/65MM	Ratchet link 2 9/16"-65	8434 2021 50
RL02-212	Ratchet link 2 3/4"	8434 2021 59
RL02-215	Ratchet link 2 15/16"	8434 2021 77

Model	Description	Ordering No.
RL04-100	Ratchet link 1"	8434 2133 22
RL04-101	Ratchet link 1 1/16"	8434 2059 33
RL04-104	Ratchet link 1 1/4"	8434 2133 28
RL04-104-12pt	Ratchet link 1 1/4"-12pt	8434 2133 31
RL04-107	Ratchet link 1 7/16"	8434 2020 09
RL04-110	Ratchet link 1 5/8"	8434 2021 35
RL04-113/46MM	Ratchet link 1 13/16"-46	8434 2021 53
RL04-113/46MM RR	Ratchet link 1 13/16"-46-RR	8434 2116 01
RL04-200	Ratchet link 2"	8434 2133 49
RL04-203	Ratchet link 2 3/16"	8434 2021 71
RL04-206	Ratchet link 2 3/8"	8434 2133 64
RL04-209/65MM	Ratchet link 2 9/16"	8434 2133 70
RL04-212	Ratchet link 2 3/4"	8434 2133 79
RL04-212-RR	Ratchet link 2 3/4"-RR	8434 2133 82
RL04-215	Ratchet link 2 15/16"	8434 2133 91
RL04-302	Ratchet link 3 1/8"	8434 2134 06
RL04-308	Ratchet link 3 1/2"	8434 2134 09

# Ratchet links

## RTX-08 Ratchet link sizes

Use the following link sizes with RTX-08, which has a torque range of 1.143 to 8.151 ft lb

### Links for RTX-08

Model	Description	Ordering No.
RL08-36MM	Ratchet link 36 mm	8434 2059 34
RL08-41MM	Ratchet link 41 mm	8434 2020 30
RL08-46MM	Ratchet link 1 13/16"-46 mm	8434 2020 66
RL08-50MM	Ratchet link 50 mm	8434 2135 47
RL08-55MM	Ratchet link 55 mm	8434 2135 53
RL08-60MM	Ratchet link 60 mm	8434 2135 56
RL08-65MM	Ratchet link 2 9/16"-65 mm	8434 2116 04
RL08-70MM	Ratchet link 70 mm	8434 2135 59
RL08-75MM	Ratchet link 75 mm	8434 2135 65
RL08-80MM	Ratchet link 80 mm	8434 2135 74
RL08-85MM	Ratchet link 85 mm	8434 2021 11
RL08-90MM	Ratchet link 90 mm	8434 2020 81
RL08-95MM	Ratchet link 95 mm	8434 2020 82
RL08-100MM	Ratchet link 100 mm	8434 2020 24

Model	Description	Ordering No.
RL08-113/46MM	Ratchet link 1 13/16"-46 mm	8434 2020 66
RL08-200	Ratchet link 2"	8434 2020 68
RL08-203	Ratchet link 2 3/16"	8434 2020 69
RL08-206	Ratchet link 2 3/8"	8434 2020 70
RL08-209/65MM	Ratchet link 2 9/16"-65 mm	8434 2116 04
RL08-212	Ratchet link 2 3/4"	8434 2021 44
RL08-215	Ratchet link 2 15/16"	8434 2020 71
RL08-300	Ratchet link 3"	8434 2059 35
RL08-302	Ratchet link 3 1/8"	8434 2020 72
RL08-308	Ratchet link 3 1/2"	8434 2020 74
RL08-314	Ratchet link 3 7/8"	8434 2021 65
RL08-401	Ratchet link 4 1/16"	8434 2020 75

## RTX-14 Ratchet link sizes

Use the following link sizes with RTX-14, which has a torque range of 2.010 to 13.400 ft lb

### Links for RTX-14

Model	Description	Ordering No.
RL14-50MM	Ratchet link 50 mm	8434 2059 36
RL14-55MM	Ratchet link 55 mm	8434 2059 37
RL14-60MM	Ratchet link 60 mm	8434 2136 61
RL14-65MM	Ratchet link 2 9/16"-65 mm	8434 2020 39
RL14-70MM	Ratchet link 70 mm	8434 2136 66
RL14-75MM	Ratchet link 75 mm	8434 2021 29
RL14-80MM	Ratchet link 80 mm	8434 2021 20
RL14-85MM	Ratchet link 85 mm	8434 2021 32
RL14-90MM	Ratchet link 90 mm	8434 2021 38
RL14-95MM	Ratchet link 95 mm	8434 2021 39
RL14-100MM	Ratchet link 100 mm	8434 2059 38
RL14-105MM	Ratchet link 105 mm	8434 2059 39
RL14-110MM	Ratchet link 110 mm	8434 2059 40
RL14-115MM	Ratchet link 115 mm	8434 2059 41
RL14-120MM	Ratchet link 120 mm	8434 2059 42

Model	Description	Ordering No.
RL14-200	Ratchet Link 2"	8434 2020 33
RL14-203	Ratchet Link 2 3/16"	8434 2020 36
RL14-206	Ratchet Link 2 3/8"	8434 2136 13
RL14-209/65MM	Ratchet Link 2 9/16"-65 mm	8434 2020 39
RL14-212/70MM	Ratchet Link 2 3/4"-70 mm	8434 2021 17
RL14-215	Ratchet Link 2 15/16"	8434 2021 05
RL14-300	Ratchet Link 3"	8434 2136 25
RL14-302	Ratchet Link 3 1/8"	8434 2136 31
RL14-308	Ratchet Link 3 1/2"	8434 2136 34
RL14-314	Ratchet Link 3 7/8"	8434 2020 45
RL14-401	Ratchet Link 4 1/16"	8434 2021 26
RL14-404	Ratchet Link 4 1/4"	8434 2020 84
RL14-410	Ratchet Link 4 5/8"	8434 2136 55

## RTX-18 Ratchet link sizes

Use the following link sizes with RTX-18, which has a torque range of 2.676 to 17.845 ft lb

### Links for RTX-18

Model	Description	Ordering No.
RL18-209/65MM	Ratchet link 2 9/16"-65 mm	8434 2137 12
RL18-70MM	Ratchet link 70 mm	8434 2059 43
RL18-75MM	Ratchet link 75 mm	8434 2137 16
RL18-80MM	Ratchet link 80 mm	8434 2137 18
RL18-85MM	Ratchet link 85 mm	8434 2137 21
RL18-90MM	Ratchet link 90 mm	8434 2137 24
RL18-100MM	Ratchet link 100 mm	8434 2020 88
RL18-110MM	Ratchet link 110 mm	8434 2136 94
RL18-115MM	Ratchet link 115 mm	8434 2136 97
RL18-120MM	Ratchet link 120 mm	8434 2137 00
RL18-130MM	Ratchet link 130 mm	8434 2137 03
RL18-135MM	Ratchet link 135 mm	8434 2137 06
RL18-140MM	Ratchet link 140 mm	8434 2020 89
RL18-145MM	Ratchet link 145 mm	8434 2020 94
RL18-150MM	Ratchet link 150 mm	8434 2059 44
RL18-155MM	Ratchet link 155 mm	8434 2059 45

Model	Description	Ordering No.
RL18-209/65MM	Ratchet link 2 9/16"-65 mm	8434 2137 12
RL18-212	Ratchet link 2 3/4"	8434 2059 47
RL18-215	Ratchet link 2 15/16"	8434 2059 48
RL18-300	Ratchet link 3"	8434 2137 13
RL18-302	Ratchet link 3 1/8"	8434 2137 08
RL18-308	Ratchet link 3 1/2"	8434 2020 87
RL18-314	Ratchet link 3 7/8"	8434 2137 15
RL18-401	Ratchet link 4 1/16"	8434 2020 47
RL18-404	Ratchet link 4 1/4"	8434 2020 48
RL18-410	Ratchet link 4 5/8"	8434 2020 93
RL18-500	Ratchet link 5"	8434 2021 56
RL18-506	Ratchet link 5 3/8"	8434 2021 23
RL18-512	Ratchet link 5 3/4"	8434 2020 96
RL18-515	Ratchet link 5 15/16"	8434 2021 24
RL18-602	Ratchet link 6 1/8"	8434 2021 25

## RTX-30 Ratchet link sizes

Use the following link sizes with RTX-30, which has a torque range of 4.770 to 31.800 ft lb

### Links for RTX-30

Model	Description	Ordering No.
RL30-312/95MM	Ratchet link 3 3/4"-95 mm	8434 2137 84
RL30-100MM	Ratchet link 100 mm	8434 2137 33
RL30-105MM	Ratchet link 105 mm	8434 2137 36
RL30-110MM	Ratchet link 110 mm	8434 2137 39
RL30-115MM	Ratchet link 115 mm	8434 2137 42
RL30-120MM	Ratchet link 120 mm	8434 2137 45
RL30-125MM	Ratchet link 125 mm	8434 2137 51
RL30-130MM	Ratchet link 130 mm	8434 2020 53
RL30-135MM	Ratchet link 135 mm	8434 2137 54
RL30-140MM	Ratchet link 140 mm	8434 2138 21
RL30-145MM	Ratchet link 145 mm	8434 2137 57
RL30-150MM	Ratchet link 150 mm	8434 2137 60
RL30-155MM	Ratchet link 155 mm	8434 2137 63
RL30-160MM	Ratchet link 160 mm	8434 2137 66
RL30-170MM	Ratchet link 170 mm	8434 2137 69
RL30-175MM	Ratchet link 175 mm	8434 2138 22

Model	Description	Ordering No.
RL30-314	Ratchet link 3 7/8"	8434 2137 87
RL30-401	Ratchet link 4 1/16"	8434 2137 88
RL30-404	Ratchet link 4 1/4"	8434 2137 90
RL30-410	Ratchet link 4 5/8"	8434 2021 00
RL30-500	Ratchet link 5"	8434 2020 99
RL30-506	Ratchet link 5 3/8"	8434 2020 51
RL30-512	Ratchet link 5 3/4"	8434 2137 93
RL30-515	Ratchet link 5 15/16"	8434 2137 96
RL30-602	Ratchet link 6 1/8"	8434 2020 59
RL30-614	Ratchet link 6 7/8"	8434 2059 49
RL30-710	Ratchet link 7 5/8"	8434 2059 50

# Ratchet

links



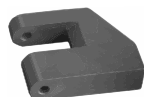
## Insert hex reducer

Model	Starting size	Reduces to	Ordering No.
RL02-INS-108/105	1 1/2	1 5/16	4222 2133 93
RL02-INS-204/105	2 1/4	1 5/16	4222 2133 96
RL02-INS-204/108	2 1/4	1 1/2	4222 2133 99
RL02-INS-204/114	2 1/4	1 7/8	4222 2134 02
RL02-INS-212/103	2 3/4	1 3/16	4222 2134 05
RL02-INS-212/107	2 3/4	1 7/16	4222 2134 08
RL02-INS-212/108	2 3/4	1 1/2	4222 2134 11
RL02-INS-212/109	2 3/4	1 9/16	4222 2134 14
RL02-INS-212/110	2 3/4	1 5/8	4222 2134 17
RL02-INS-212/113	2 3/4	1 13/16	4222 2134 20
RL02-INS-212/114	2 3/4	1 7/8	4222 2134 23
RL02-INS-46/36	46 mm	36 mm	4222 2134 26
RL02-INS-50/41	50 mm	41 mm	4222 2134 29
RL02-INS-50/46	50 mm	46 mm	4222 2134 32
RL04-INS-113/30MM	1 13/16	30 mm	4222 2119 58
RL04-INS-113/36MM	1 13/16	36 mm	4222 2119 62
RL04-INS-113/42MM	1 13/16	42 mm	4222 2119 66
RL04-INS-200/112	2	1 3/4	4222 2137 74
RL04-INS-200/113	2	1 13/16	4222 2137 77
RL04-INS-204/105	2 1/4	1 5/16	4222 2137 80
RL04-INS-204/108	2 1/4	1 1/2	4222 2137 83
RL04-INS-204/114	2 1/4	1 7/8	4222 2137 86
RL04-INS-208/114	2 1/2	1 7/8	4222 2119 70
RL04-INS-212/ 208	2 3/4	2 1/2	4222 2137 89
RL04-INS-212/201	2 3/4	2 1/16	4222 2137 92
RL04-INS-212/202	2 3/4	2 1/8	4222 2137 95
RL04-INS-212/203	2 3/4	2 3/16	4222 2137 98
RL04-INS-212/204	2 3/4	2 1/4	4222 2138 01
RL04-INS-212/206	2 3/4	2 3/8	4222 2138 04
RL04-INS-215/209	2 15/16	2 9/16	4222 2138 07
RL04-INS-302/100	3 1/8	1	4222 2138 10
RL04-INS-302/108	3 1/8	1 1/2	4222 2138 13
RL04-INS-302/110	3 1/8	1 5/8	4222 2138 16
RL04-INS-302/112	3 1/8	1 3/4	4222 2138 19
RL04-INS-302/200	3 1/8	2	4222 2138 22

Model	Starting size	Reduces to	Ordering No.
RL04-INS-302/206	3 1/8	2 3/8	4222 2138 25
RL04-INS-50/19	50 mm	19 mm	4222 2138 28
RL04-INS-50/32	50 mm	32 mm	4222 2138 31
RL04-INS-50/41	50 mm	41 mm	4222 2138 34
RL04-INS-50/42	50 mm	42 mm	4222 2138 37
RL04-INS-50/46	50 mm	46 mm	4222 2138 40
RL04-INS-55/50	55 mm	50 mm	4222 2138 43
RL04-INS-65/55	65 mm	55 mm	4222 2119 74
RL04-INS-70/60	70 mm	60 mm	4222 2119 78
RL04-INS-70/65	70 mm	65 mm	4222 2119 82
RL08-INS-100MM/80MM	100 mm	80 mm	4222 2140 62
RL08-INS-203/200	2 3/16	2	4222 2140 65
RL08-INS-302/215	3 1/8	2 15/16	4222 2140 68
RL08-INS-302/50MM	3 1/8	50 mm	4222 2140 71
RL08-INS-302/55MM	3 1/8	55 mm	4222 2140 74
RL08-INS-302/60MM	3 1/8	60 mm	4222 2140 77
RL08-INS-314/308	3 7/8	3 1/2	4222 2140 80
RL08-INS-60/50	60 mm	50 mm	4222 2122 07
RL08-INS-60/55	60 mm	55 mm	4222 2122 11
RL08-INS-70/46	70 mm	46 mm	4222 2140 83
RL08-INS-70/55	70 mm	55 mm	4222 2140 86
RL08-INS-70/65	70 mm	65 mm	4222 2140 89
RL08-INS-80/50	80 mm	50 mm	4222 2140 92
RL08-INS-80/55	80 mm	55 mm	4222 2140 95
RL08-INS-80/65	80 mm	65 mm	4222 2140 98
RL08-INS-80/75	80 mm	75 mm	4222 2141 01
RL08-INS-95/80	95 mm	80 mm	4222 2141 04
RL14-INS-314/308	3 7/8	3 1/2	4222 2143 38
RL14-INS-410/314	4 5/8	3 7/8	4222 2143 41
RL14-INS-410/404	4 5/8	4 1/4	4222 2143 44
RL18-INS-135/123	135 mm	123 mm	4222 2144 13
RL18-INS-151/143	151 mm	143 mm	4222 2144 16
RL18-INS-410/308	4 5/8	3 1/2	4222 2144 19
RL18-INS-410/312	4 5/8	3 3/4	4222 2144 22
RL30-INS-602/600	6 1/8	6	4222 2145 48

# Reaction arms

ALCO Reaction Arm



On Side Reaction Arm

## ALCO reaction arm

Model	Description	Ordering No.
RTX02-ALC	Alco Arm	8434 2057 58
RTX04-ALC	Alco Arm	8434 2057 60
RTX08-ALC	Alco Arm	8434 2057 62
RTX14-ALC	Alco Arm	8434 2057 64
RTX18-ALC	Alco Arm	8434 2057 66
RTX30-ALC	Alco Arm	8434 2057 67

## On side reaction arm

Model	Description	Ordering No.
RTX02-14	On Side Reaction Arm	4222 2107 14
RTX04-14	On Side Reaction Arm	4222 2109 27
RTX08-14	On Side Reaction Arm	4222 2110 44
RTX14-14	On Side Reaction Arm	4222 2141 22
RTX18-14	On Side Reaction Arm	4222 2141 23
RTX30-14	On Side Reaction Arm	4222 2144 43

# Backup wrenches



## Backup wrenches

The Rapid-Torc backup wrench works in conjunction with any Rapid-Torc bolting tool and prevents the nut from rotating. The wrench is made of high strength steel and has a minimum of moving parts. This gives the tool a very long working lifetime without significant wear. Available in any nut size.

Model	Hex size	Ordering No.
BK-30MM	30 mm	8434 2129 26
BK-36MM	36 mm	8434 2129 32
BK-41MM	41 mm	8434 2056 28
BK-46	46 mm	8434 2056 30
BK-50	50 mm	8434 2056 32
BK-55	55 mm	8434 2056 34
BK-60	60 mm	8434 2056 36
BK-65	65 mm	8434 2056 38
BK-70MM	70 mm	8434 2129 41
BK-75MM	75 mm	8434 2056 55
BK-80MM	80 mm	8434 2056 53
BK-85MM	85 mm	8434 2129 44
BK-90MM	90 mm	8434 2056 51
BK-95MM	95 mm	8434 2129 29
BK-100MM	100 mm	8434 2056 24
BK-110MM	110 mm	8434 2128 99
BK-120MM	120 mm	8434 2129 08

Model	Hex size	Ordering No.
BK-104	1 1/4"	8434 2128 90
BK-105	1 5/16"	8434 2128 93
BK-107	1 7/16"	8434 2056 26
BK-108	1 1/2"	8434 2128 96
BK-110	1 5/8"	8434 2056 28
BK-112	1 3/4"	8434 2129 02
BK-113	1 13/16"	8434 2056 30
BK-114	1 7/8"	8434 2129 05
BK-200	2"	8434 2056 32
BK-201	2 1/16"	8434 2129 11
BK-202	2 1/8"	8434 2129 14
BK-203	2 3/16"	8434 2056 34
BK-204	2 1/4"	8434 2129 17
BK-206	2 3/8"	8434 2056 36
BK-209	2 9/16"	8434 2056 38
BK-210	2 5/8"	8434 2056 40
BK-212	2 3/4"	8434 2056 42
BK-215	2 15/16"	8434 2056 44
BK-300	3"	8434 2129 23
BK-302	3 1/8"	8434 2056 46
BK-308	3 1/2"	8434 2056 48
BK-312	3 3/4"	8434 2129 29
BK-314	3 7/8"	8434 2056 50
BK-402	4 1/8"	8434 2129 35
BK-404	4 1/4"	8434 2129 38

# Pumps



## Panther

Pumps in the Panther series are designed for all hydraulic torque wrench applications. Panther pumps are variable piston models with the smallest ratio weight/oil flow on the market.

The pumps are available in two versions: air driven (explosion-proof), or electric driven, 110V or 220V. They come in three sizes: small, medium and large.

Model	Dimensions (LxWxH)		Weight		Oil capacity			Oil flow 1,250 psi/86 bar		Oil flow 3,600 psi/250 bar		Oil flow 10,000 psi/700 bar		Ports	Ordering No.
	inches	mm	lb	kg	Gal-lons	Li-ters	Inter-cooler system	cu.in/ min	l/min	cu.in/ min	l/min	cu.in/ min	l/min		
Panther A110 Small frame	13.4 x 13.7 x 16.5	340.3 x 347.9 x 419.1	33	15	0.5	1.89	yes	275	4.5	67	1.1	24	0.4	1	8434 2040 19
Panther A110 Full frame	13.4 x 13.7 x 16.5	340.3 x 347.9 x 419.1	33	15	0.5	1.89	yes	275	4.5	67	1.1	24	0.4	1	8434 2040 17
Panther A380	15.7 x 14.9 x 18.1	398.7 x 378.4 x 459.7	48	22	1.5	5.67	yes	701	11.5	213	3.5	79	1.3	4	8434 2056 22
TigAir	18 x 10.5 x 18.5	457.2 x 266.7 x 439.9	75	34	2.5	9.5	yes	-	-	-	-	72	1.1	4	8434 2040 43
Cougar	15.7 x 14.9 x 18.1	398.7 x 378.4 x 459.7	72	33	1.5	5.67	yes	734	12	196	3.2	86	1.4	4	8434 2040 29

Model	Oil flow 1,250 psi/86 bar		Oil flow 3600 psi/250 bar		Oil flow 10000 psi/700 bar		Ports	Ordering No.
	cu.in/min	l/min	cu.in/min	l/min	cu.in/min	l/min		
Panther 025 with Handle 110V	195	3.2 l/min	54	0.9	21	0.35	1	8434 2040 31
Panther 025 with Full frame 110V	195	3.2 l/min	54	0.9	21	0.35	1	8434 2040 33
Panther 025 with Handle 220V	195	3.2 l/min	54	0.9	21	0.35	1	8434 2130 22
Panther 025 with Full frame 220V	195	3.2 l/min	54	0.9	21	0.35	1	8434 2059 54
Panther 055 110V	391	6.4 l/min	110	1.8	42	0.7	4	8434 2040 35
Panther 055 220V	391	6.4 l/min	110	1.8	42	0.7	4	8434 2040 37
Lynx 110V	-	-	-	-	56	0.9	4	8434 2059 51
Lynx 220V	-	-	-	-	56	0.9	4	8434 2059 52
Panther 150 110V	641	10.5 l/min	153	2.5	92	1.5	4	8434 2040 39
Panther 150 220V	641	10.5 l/min	153	2.5	92	1.5	4	8434 2040 41

# Hoses

and gauges



## 10,000 psi/700 bar

Non-conductive, twin-line hoses are extremely safe, featuring a 4:1 safety ratio and safety hose burst guards. Batch numbers are printed directly on the hose for traceability. This is the one of the best 10,000 psi/700 bar hoses on the market. Couplers and nipples included.



## Calibrated gauges

Our gauges are calibrated and have class 1 accuracy. An accurate pressure reading contributes to accurate torquing values.

## 10,000 psi/700 bar

Model	Description	Ordering No.
90172	4.5M / 15 ft	8434 2050 08
090172-7	7M / 22.9 ft	8434 2123 95
090172-10	10M / 32 ft	8434 2123 74
090172-15	15M / 49.2 ft	8434 2050 10
090172-20	20M / 65.6 ft	8434 2123 83

## Calibrated gauges

Model	Description	Ordering No.
090233-2	Gauge 70Mpa back mounted	8434 2124 07
090233-1	Gauge 700 bar-10,000 psi	8434 2124 04

# Couplings

*and hydraulic oil*



## Couplings

Couplings are available in standard or quick connect versions.



## Hydraulic Oil

Hydraulic oil for use in our high quality pumps. Comes in 5L (1.32G) container.

### Couplings


Model	Description	Ordering No.
090156-1	1/8" Coupler female	8434 2050 06
90156	1/4" Female coupler	8434 2123 41
90157	3/8" Female coupler	8434 2123 44
090155-1	1/8" Male coupler	8434 2123 65
QC-COUPERS	Quick connect coupler set	8434 2131 36
90101	Nipple male-male 1/4INx1/4IN	8434 2050 00
90103	Nipple male 1/4INx1/8IN	8434 2050 02
90135	Nipple NPT 1/4INx1/4IN	8434 2050 04
90155	1/4" Male female nipple	8434 2123 38
090155-M	1/4" Male nipple	8434 2123 68

### Hydraulic Oil

Model	Description	Ordering No.
Tellus 46	5L / 1.32G Container	8434 2040 45

# Tensioners





Part of the Atlas Copco Group, Tentec designs, manufactures and markets bolt tightening equipment. Our bolt tensioners are suitable for a wide range of applications in different work environments throughout the industrial world. For more information please contact your local Tentec distributor.

Please visit [www.tentec.net](http://www.tentec.net)

# Topside

*bolt tensioners*



## CTST 9000 Series

The CTST range of topside bolt tensioning tools comprises 6 base tools covering bolt sizes from 3/4" to 4" (M20 to M100). The tools are designed to fit on to most ANSI B16.5, ANSI B16.47 Series 1, MSS-SP44, API-6A and API-17D flanges. Each base tool can be converted for use with different bolt sizes using a conversion kit.

By using tensioners, bolt load is applied axially to the bolt. Therefore tightening is not affected by factors such as friction, bending and lubricants.

Multiple bolt tensioners offer a rapid and accurate method of tightening a bolt.

### How bolt tensioners work



The stud and nut are assembled onto the bolted joint. The two halves of the joint are pulled together.



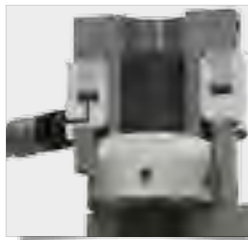
The nut rotating socket is assembled over the hexagon nut.



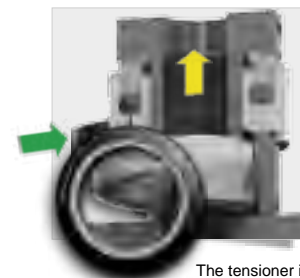
The tensioner is assembled over the hexagon nut.



The thread insert (puller) is screwed onto the bolt protrusion.



The tensioner is connected to a hydraulic pump unit through high pressure flexible hose.



The tensioner is pressurised to the pre calculated value. Bolt load is directly proportional to hydraulic pressure. The bolt stretches and a gap is formed below the hexagon nut. Once the target pressure is reached, the pressure is held.



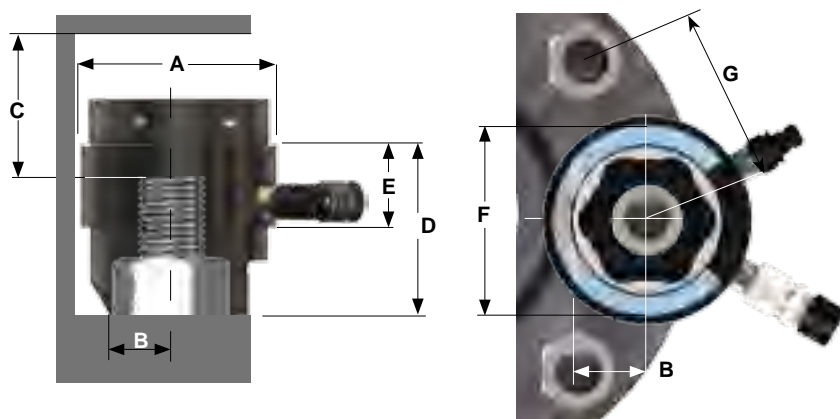
While the tool pressure is held, the hexagon nut is rotated down to the joint face and locked down tightly.



The pressure is released, the bolt is tensioned.



The tensioner can be removed.



Maximum Working Pressure =  
21,750 psi : 1,500 bar

## Technical specifications

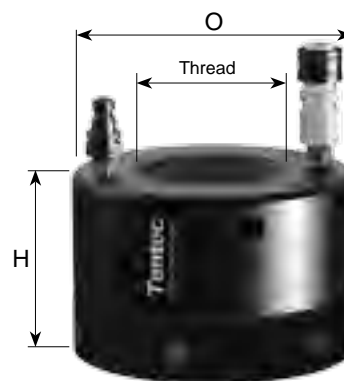
Tool Ident	Part No. Imperial	Thread size		Part No. metric	Bolt load		Ram area		Stroke mm	Weight kg	A	B	C	D	E	F	G
		inch	mm		Kn	Ton	in <sup>2</sup>	mm <sup>2</sup>									
1	HTT.9551:034	3/4"-10UNC	M20x2.5	HTT.9551:020	227.81	22.86	2.354	1518.76	10	2.0	73.50	21.0	67.00	71.0	45	62	49.5
	HTT.9551:078	7/8"-9UNC	M22x2.5	HTT.9551:022						1.9		24.0	64.00	71.0		63	53
	HTT.9551:100	1"-8UN	M24x3	HTT.9551:024						1.9		24.0	69.00	78.0		69	58.5
	HTT.9551:118	1.1/8"-8UN	M27x3	HTT.9551:027						1.9		24.0	66.00	79.0		74	63.5
2	HTT.9552:118	1.1/8"-8UN	M27x3	HTT.9552:027	443.00	44.46	4.578	2953.69	15	4.8	102	27.0	85.50	92.0	54	82	67.5
			M30x3.5	HTT.9552:030						4.9		32.0	85.00	93.0		85	69
	HTT.9552:114	1.1/4"-8UN	M33x3.5	HTT.9552:033						4.6		31.0	84.00	95.0		85	72
	HTT.9552:138	1.3/8"-8UN	M36x4	HTT.9552:036						4.6		34.0	84.00	98.0		91	78
	HTT.9552:112	1.1/2"-8UN	M39x4	HTT.9552:039						4.7		36.5	82.00	100.0		90	80
3	HTT.9553:112	1.1/2"-8UN	M39x4	HTT.9553:039	810.85	81.38	8.379	5405.70	15	9.5	133	36.5	98.00	109.0	56	97	83.5
	HTT.9553:158	1.5/8"-8UN	M42x4.5	HTT.9553:042						9.0		37.5	93.00	107.0		110	92.5
	HTT.9553:134	1.3/4"-8UN	M45x4.5	HTT.9553:045						9.3		40.5	98.50	116.0		115	98
	HTT.9553:178	1.7/8"-8UN	M48x5	HTT.9553:048						9.0		42.5	95.00	116.0		116	101
	HTT.9553:200	2"-8UN	M52x5	HTT.9553:052						8.6		50.0	93.50	117.0		120	106
4	HTT.9554:178	1.7/8"-8UN	M48x5	HTT.9554:048	1273.16	127.78	13.159	8489.96	15	16.1	163	43.5	106.00	118.0	57	130	108
	HTT.9554:200	2"-8UN	M52x5	HTT.9554:052						15.17		46.0	102.50	117.0		124	108
	HTT.9554:214	2.1/4"-8UN	M56x5.5	HTT.9554:056						15.8		55.0	103.00	123.0		134	118.5
			M60x5.5	HTT.9554:060						18.3		54.0	121.50	145.5		150	127
HTT.9554:212	2.1/2"-8UN	M64x6	HTT.9554:064						15.1		58.0	102.50	130.0		147	130.5	
5	HTT.9555:212	2.1/2"-8UN	M64x6	HTT.9555:064	1828.99	183.56	19.905	12196.45	15	22.7	193	64.0	107.50	133.0	60	147	130.5
			M68x6	HTT.9555:068						23.6		80.0	111.00	141.0		160	138
	HTT.9555:234	2.3/4"-8UN	M72x6	HTT.9555:072						24.7		72.0	115.00	147.0		161	143
	HTT.9555:300	3"-8UN	M76x6	HTT.9555:075						22.2		77.0	108.00	146.0		170	153
6	HTT.9556:300	3"-8UN	M76x6	HTT.9556:076	2643.43	265.30	27.323	17627.48	15	38.5	233	77.0	120.00	153.0	64	170	153
			M80x6	HTT.9556:080						38.3		78.0	117.00	154.0		178	155.5
	HTT.9556:314	3.1/4"-8UN	M85x6	HTT.9556:085						38.1		78.0	114.00	154.0		182	165.5
	HTT.9556:312	3.1/2"-8UN	M90x6	HTT.9556:090						37.0		86.0	114.00	160.0		191	174.5
	HTT.9556:334	3.3/4"-8UN	M95x6	HTT.9556:095						37.0		99.0	116.00	168.0		210	189.5
	HTT.9556:400	4"-8UN	M100x6	HTT.9556:100						36.4		105.0	116.00	174.0		220	200

# Hydraulic nuts



## Hydraulic Nuts - Bottom Collar

Hydraulic pressure is applied simultaneously to each Tentec Nut. All frictional factors connected with conventional bolt tightening methods are alleviated since Tentec Nuts apply a direct axial force to the bolt which generates a bolt elongation. This elongation/tension is permanently retained by means of the load retaining collar. Tentec Nuts have been designed to be as compact as possible, in order to allow adjacent fitment on as many applications as possible.



Maximum Working Pressure  
33,000 psi : 2,275 bar

Part No. inch	Thread inches	Thread metric	Part No. metric	Bolt load kN	Tons	O mm	H mm	S mm
BCHN:0875	7/8	M22	BCHN:0022	190	19.1	54	48	5
BCHN:1000	1"	M24	BCHN:0024	205	20.6	57	44	5
BCHN:1125	1 1/8	M27	BCHN:0027	220	22.1	60	48	5
BCHN:1250	1 1/4	M33	BCHN:0033	265	26.6	67	51	5
BCHN:1375	1 3/8	M36	BCHN:0036	325	32.6	73	54	6
BCHN:1500	1 1/2	M39	BCHN:0039	373	37.5	78	56	6
BCHN:1625	1 5/8	M42	BCHN:0042	424	42.6	83	58	6
BCHN:1750	1 3/4	M45	BCHN:0045	445	44.6	86	60	6
BCHN:1875	1 7/8	M48	BCHN:0048	523	52.5	93	70	8
BCHN:2000	2	M52	BCHN:0052	629	63.1	102	71	8
BCHN:2250	2 1/4	M56	BCHN:0056	781	78.3	112	75	8
BCHN:2500	2 1/2	M64	BCHN:0064	941	94.4	124	86	8
BCHN:2750	2 3/4	M68	BCHN:0068	1042	104.5	131	90	8
BCHN:3000	3	M72	BCHN:0072	1246	125.1	144	94	10
BCHN:3250	3 1/4	M80	BCHN:0080	1607	161.3	159	104	10
BCHN:3500	3 1/2	M90	BCHN:0090	2027	203.4	176	114	10
BCHN:3750	3 3/4	M95	BCHN:0095	2160	216.7	182	118	10
BCHN:4000	4	M100	BCHN:0100	2466	247.5	200	124	15
BCHN:4500	4 1/2	M110	BCHN:0110	2814	282.4	215	136	15
BCHN:5000	5	M125	BCHN:0125	3820	383.4	244	148	15
BCHN:5500	5 1/2	M140	BCHN:0140	4954	497.1	272	164	15
BCHN:6000	6	M150	BCHN:0150	5655	567.5	290	176	15

## Hydraulic Nuts - Top Collar

Top Collar Hydraulic Nuts feature the same benefits as the Bottom Collar type Hydraulic Nuts. The Top Collar derivative is ideally used where the nut is sunk into a pocket or spot face. The load retaining collar is situated at the top of the hydraulic nut allowing for easy access by the user.

Hydraulic Nuts offer an extremely rapid and simple method of simultaneously accurately tensioning every bolt on a bolted joint.

Hydraulic Nuts become a permanent part of the bolted joint and remain on the joint after the bolt load has been generated.



Maximum Working Pressure  
33,000 psi : 2,275 bar

If the standard Hydraulic Nuts are not suitable, Tentec offers special designs on request.

Various Hydraulic Connection configurations are available.

Part No. Inch	Thread inches	Thread metric	Part No. metric	Load kN	Load tons	O mm	H mm	Ram stroke mm
TCHN:0875	7/8	M22	TCHN:0022	190	19.1	54	40	5
TCHN:1000	1	M24	TCHN:0024	205	20.6	57	44	5
TCHN:1125	1 1/8	M27	TCHN:0027	220	22.1	60	46	5
TCHN:1250	1 1/4	M33	TCHN:0033	265	26.6	67	48	5
TCHN:1375	1 3/8	M36	TCHN:0036	325	32.6	73	52	6
TCHN:1500	1 1/2	M39	TCHN:0039	373	37.5	78	56	6
TCHN:1625	1 5/8	M42	TCHN:0042	424	42.6	83	58	6
TCHN:1750	1 3/4	M45	TCHN:0045	445	44.6	86	60	6
TCHN:1875	1 7/8	M48	TCHN:0048	523	52.5	93	64	8
TCHN:2000	2	M52	TCHN:0052	629	63.1	102	72	8
TCHN:2250	2 1/4	M56	TCHN:0056	781	78.3	112	75	8
TCHN:2500	2 1/2	M64	TCHN:0064	941	94.4	124	81	8
TCHN:2750	2 3/4	M68	TCHN:0068	1042	104.5	131	89	8
TCHN:3000	3	M72	TCHN:0072	1246	125.1	144	96	10
TCHN:3250	3 1/4	M80	TCHN:0080	1607	161.3	159	104	10
TCHN:3500	3 1/2	M90	TCHN:0090	2027	203.4	176	114	10
TCHN:3750	3 3/4	M95	TCHN:0095	2160	216.7	182	117	10
TCHN:4000	4	M100	TCHN:0100	2466	247.5	200	126	15
TCHN:4500	4 1/2	M110	TCHN:0110	2814	282.4	215	138	15
TCHN:5000	5	M125	TCHN:0125	3820	383.4	244	150	15
TCHN:5500	5 1/2	M140	TCHN:0140	4954	497.1	272	168	15
TCHN:6000	6	M150	TCHN:0150	5655	567.5	290	174	15

# Wind

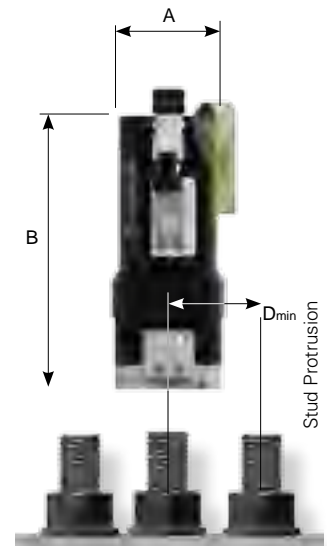
turbine bolting



## WTB

In light of the difficulties associated with wind turbine blade tensioning, the new Tentec Aero WTB is a purpose designed range of hydraulic bolt tensioning tools to suit most wind turbine bolting applications. All WTB Tensioning tools have the capacity to achieve the specified proof load requirements as detailed in EN ISO 898-1:1999 and ASTM A490M for grade 10.9 Bolts.

These feature packed tensioners have been designed with rapid tensioning in mind and offer a safe, reliable and consistent method of simultaneously tensioning many bolts.



## WTB

Ident	Bolt diameter	Stud protrusion mm		Max stroke	Maximum Load		Hydraulic pressure area		Dia A	Height B	D	Weight
		Min	Max		kN	lbs	mm <sup>2</sup>	In <sup>2</sup>				
WTB30	M30	59	69	8	465.38	104622	3447.21	5.343	72	205	64	6.16
WTB33	M33	64	73	10	575.80	129444	4265.09	6.611	79	217.5	71	7.24
WTB36	M36	71	81	10	678.26	152478	5024.05	7.787	84.5	229.5	77	8.75
WTB39	M39	76	86	10	810.58	182225	6004.20	9.307	92	263	83	11.12
WTB42	M42	83	93	10	929.67	208999	6886.37	10.674	97	262.5	95	12.75
WTB45	M45	88	98	10	1079.48	242682	7996.12	12.394	105	275.5	94.5	15.86
WTB48	M48	94	104	10	1221.57	274620	9048.67	14.025	111	286.5	100.5	17.84
WTB56	M56	110	120	10	1686.19	379070	12490.29	19.359	132	314	115	26.5
WTB64	M64	124	134	10	2221.00	499300	16461.30	25.515	150	352	124	35

## WTB Low height

Ident	Bolt diameter metric	Stud protrusion mm		Max stroke	Maximum Load		Hydraulic pressure area		Dia A	Height B	D	Weight
		Min	Max		kN	lbs	mm <sup>2</sup>	In <sup>2</sup>				
WTBLH36	M36	71	91	10	678.14	152452	5023.4	7.79	123	167.5	-	9.97
WTBLH42	M42	83	103	10	930.15	209106	6889.96	10.68	142.5	181.3	-	13.94

# Wind

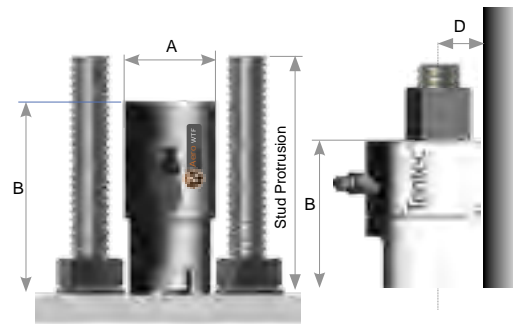
foundation bolting



## WTF

The new Aero WTF is a purpose designed range of hydraulic bolt tensioning tools developed by Tentec and designed to suit most wind turbine foundation bolting applications. The Aero WTF tensioning tools can be supplied to suit many different All Thread Bars and the more conventionally ISO metric and Imperial Unified thread forms.

These feature packed tensioners have been designed with rapid tensioning in mind and offer a safe, reliable and consistent method of simultaneously tensioning many foundation bolts. The Tentec Aero WTF range of tensioning tools have been fully site evaluated in the wind energy industry.



### 75 KSI - All thread bar - WTF

Tool ident	Foundation bolt type	Gear box	Stud protrusion mm		Max stroke mm	Maximum load		Hydraulic pressure area		Dia A mm	Height B mm	D mm	Weight kg
			#10	#11		kN	lbs	mm <sup>2</sup>	in <sup>2</sup>				
WTF-8041	Grade 75ksi All Thread	Y	260	257	25	472.6	106244.7	3500.72	5.426	110	231	56	10.84
WTF-8148	Grade 75ksi All Thread	N	260	257	25	472.6	106244.7	3500.72	5.426	110	231	56	10.47
WTF-8040	Grade 75ksi All Thread	Y	200	197	10	472.6	106244.7	3500.72	5.426	108	158	55	7.06
WTF-8147	Grade 75ksi All Thread	N		197	10	472.6	106244.7	3500.72	5.426	108	158	55	6.69
WTF-7566 Elliptical	Grade 75ksi All Thread	N	205	198	10	469.3	105502.8	3128.83	4.85	142	144	41	10

### 150 KSI - All thread bar - WTF

Tool ident	Foundation bolt type	Gear box	Stud protrusion mm		Max stroke mm	Maximum load		Hydraulic pressure area		Dia A mm	Height B mm	D mm	Weight kg
			1.3/8"	1.1/4"		kN	lbs	mm <sup>2</sup>	in <sup>2</sup>				
WTF-8342	Grade 150ksi All Thread	Y	270	275	25	762.45	171404.8	5647.79	8.754	125	245	63.5	14.34
WTF-8343	Grade 150ksi All Thread	N	270	275	25	762.45	171404.8	5647.79	8.754	125	245	63.5	14.34
WTF-8340	Grade 150ksi All Thread	Y	215	223	10	762.45	171404.8	5647.79	8.754	123	175	62.5	9.72
WTF-8341	Grade 150ksi All Thread	N	215	223	10	762.45	171404.8	5647.79	8.754	123	175	62.5	9.72

### Metric coarse threads - WTF

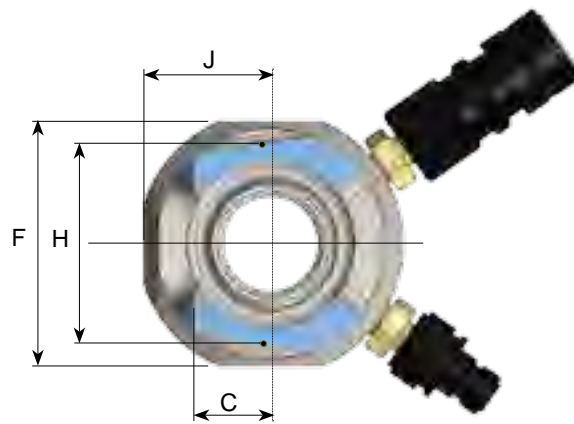
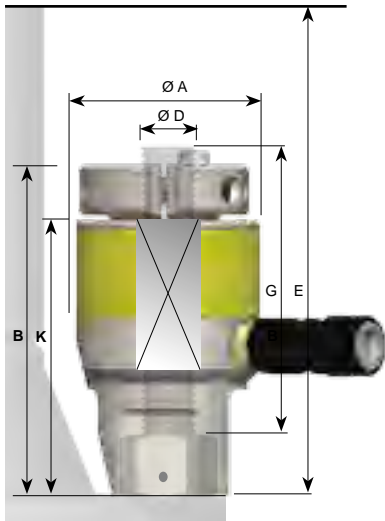
Tool ident	Foundation bolt type	Gear box	Stud protrusion mm		Max stroke mm	Maximum load		Hydraulic pressure area		Dia A mm	Height B mm	D mm	Weight kg
			Max	Min		kN	lbs	mm <sup>2</sup>	in <sup>2</sup>				
WTF-9753	M36x4	Y	250	190	15	579.8	130344	3866	5.992	108	210	50.6	10.27
WTF-9426	M42x4.5	Y	250	199	15	788	177078	5251	8.139	124	210	62	13.25



## Subsea bolt tensioning tools

Comprising just 8 bolt tensioning tools, the COMPACT-8 series is capable of tensioning most standard flanges including most of the newer Vector SPO\* Compact flanges. The COMPACT-8 series is made from high strength stainless steel which reduces maintenance work to a minimum after subsea use. They also have a non-slip tool surface and are fitted with lifting straps, for easy diver handling.

	Bolt dia	Thread	Tool dia	Effective side dia	Tool height	Radial dim'n	Max initial bolt load	Hydraulic area	Ram stroke	Extra Stud Length (Including 3xPitches extra)	Headroom dimension	Across flats	Radial dim'n	Dim'n
	D		A	F	B	C	kN	mm <sup>2</sup>	mm	G	E	H	J	K
	metric	pitch	mm	mm	mm	mm				mm	mm	mm	mm	mm
C8-00	0.75	UNC	66.0	66.0	123	20	190.21	1268.420	20	113.5	214.5	50.2	31.6	97.00
	0.875	UNC	66.0	66.0	123	20	190.21	1268.420	20	110.3	214.5	50.2	31.6	97.00
C8-01	1	8-UN	87.0	87.0	153	25	328.87	2193.020	30	137.1	270.5	65	41.5	127.00
	1.125	8-UN	87.0	87.0	153	25	328.87	2193.020	30	134.0	270.5	65	41.5	127.00
C8-02	1.25	8-UN	104.5	104.5	165	28	514.84	3433.170	30	142.8	286.5	82.5	50.15	135.00
	1.375	8-UN	104.5	104.5	165	28	514.84	3433.170	30	139.6	286.5	82.5	50.15	135.00
C8-03	1.5	8-UN	123.1	118.3	184.5	35	746.70	4979.300	30	155.9	321.5	90	59.1	150.50
	1.625	8-UN	123.1	118.3	184.5	35	746.70	4979.300	30	152.8	321.5	90	59.1	150.50
C8-04	1.75	8-UN	150.0	143.5	210.75	48	1177.31	7850.800	30	175.8	365.0	110	71.7	169.75
	1.875	8-UN	150.0	143.5	210.75	48	1177.31	7850.800	30	172.7	365.0	110	71.7	169.75
	2	8-UN	150.0	143.5	210.75	48	1177.31	7850.800	30	169.5	365.0	110	71.7	169.75
C8-05	2.25	8-UN	182.5	174.3	235.75	59	1904.04	12696.940	30	188.1	393.0	136	87.1	179.75
	2.5	8-UN	182.5	174.3	235.75	59	1904.04	12696.940	30	181.8	393.0	136	87.1	179.75
C8-06	2.75	8-UN	210.0	210.0	259.75	65	2542.11	16951.840	30	199.4	432.0	163.5	105	199.75
	3	8-UN	210.0	210.0	259.75	65	2542.11	16951.840	30	193.1	432.0	163.5	105	199.75
C8-07	3.25	8-UN	258.1	258.1	302.8	85	4059.32	27069.190	30	229.8	492.6	204	129	232.25
	3.5	8-UN	258.1	258.1	302.8	85	4059.32	27069.190	30	223.4	492.6	204	129	232.25
	3.75	8-UN	258.1	258.1	302.8	85	4059.32	27069.190	30	217.1	492.6	204	129	232.25



**Technical specification**

Maximum working pressure = 1,500 bar : 21,750 psi  
 Maximum ram stroke= (Tools 01 to 07): 30 mm : 1.181"  
 Maximum ram stroke= (Tool 00): 20 mm : 0.787"

	Bolt dia D metric	Thread pitch	Tool dia A mm	Effective side dia F mm	Tool height B mm	Radial dim'n C mm	Max Initial bolt load kN	Hydraulic area mm <sup>2</sup>	Ram stroke mm	Extra stud length (Including 3xPitches extra) G mm	Head- room dimen- sion E mm	Across flats H mm	Radial dim'n J mm	Dim'n K mm
C8-00	20	2.5	66.0	66.0	123	20	190.21	1268.420	20	110.5	212.5	50.2	31.6	97.00
	22	2.5	66.0	66.0	123	20	190.21	1268.420	20	108.5	212.5	50.2	31.6	97.00
C8-01	24	3	87.0	87.0	153	25	328.87	2193.020	30	138	270	65	41.5	127.00
	27	3	87.0	87.0	153	25	328.87	2193.020	30	135	270	65	41.5	127.00
C8-02	30	3.5	87.0	87.0	153	25	328.87	2193.020	30	133.5	271.5	65	41.5	127.00
	33	3.5	104.5	104.5	165	28	514.84	3433.170	30	142.5	287.5	82.5	50.15	135.00
C8-03	36	4	104.5	104.5	165	28	514.84	3433.170	30	141	289	82.5	50.15	135.00
	39	4	123.1	118.3	185	35	746.70	4979.300	30	158	324.5	90	59.1	150.50
C8-04	42	4.5	123.1	118.3	185	35	746.70	4979.300	30	156.5	326	90	59.1	150.50
	45	4.5	150.0	143.5	211	48	1177.31	7850.800	30	179.5	369.25	110	71.7	169.75
C8-05	48	5	150.0	143.5	211	48	1177.31	7850.800	30	178	370.75	110	71.7	169.75
	52	5	150.0	143.5	211	48	1177.31	7850.800	30	174	370.75	110	71.7	169.75
C8-06	56	5.5	182.5	174.3	236	59	1904.04	12696.940	30	196.5	400.25	136	87.1	179.75
	60	5.5	182.5	174.3	236	59	1904.04	12696.940	30	192.5	400.25	136	87.1	179.75
C8-07	64	6	182.5	174.3	236	59	1904.04	12696.940	30	190	401.75	136	87.1	179.75
	68	6	210.0	210.0	260	65	2542.11	16951.840	30	210	440.75	163.5	105	199.75
C8-08	72	6	210.0	210.0	260	65	2542.11	16951.840	30	206	440.75	163.5	105	199.75
	76	6	210.0	210.0	260	65	2542.11	16951.840	30	202	440.75	163.5	105	199.75
C8-09	80	6	258.1	258.1	303	85	4059.32	27069.190	30	241	501.25	204	129	232.25
	85	6	258.1	258.1	303	85	4059.32	27069.190	30	236	501.25	204	129	232.25
C8-10	90	6	258.1	258.1	303	85	4059.32	27069.190	30	231	501.25	204	129	232.25
	95	6	258.1	258.1	303	85	4059.32	27069.190	30	226	501.25	204	129	232.25

# Bolt

*tightening software*



## **BTS - Bolt tightening software**

Takes the complexity out of bolt tightening calculations.

The use of Tentec's Bolt Load Software package alongside the COMPACT-8 range of subsea bolt tensioning tools completely removes the complexity of calculating at what pressure to operate the tensioning tools. A complete bolt tensioning project can be defined and rapid joint specific technical data sheets can be produced.

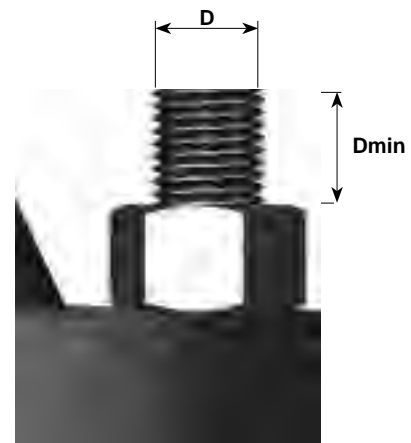
# Compact

*flange tensioners*



## Compact flange tensioners

These tensioners are specifically designed for use on SPO Compact flanges. The range consists of 11 powerful bolt tensioning tools covering bolt sizes from 3/4" to 4".




V-Series tensioners need a minimum of 1 x bolt diameter protruding above the hexagon or round nut.

Tool	Part No.	Thread size		Part No.	Bolt load		Ram area		Stroke	Weight kg
		Inch	mm		Kn	Ton	In <sup>2</sup>	mm <sup>2</sup>		
V-1	HTT.10101.034	3/4"-10UNC	M20x2.5	HTT.10101.020	135.5	13.599	1.401	903.87	10	1.67
V-2	HTT.10102.034	3/4"-10UNC	M20x2.5	HTT.10102.020	189.39	19.007	1.958	1263.22	10	2.17
	HTT.10102.078	7/8"-9UNC	M22x2.5	HTT.10102.022						
V-3	HTT.10103.078	7/8"-9UNC	M22x2.5	HTT.10103.022	245.92	24.681	2.542	1640.00	15	3.33
	HTT.10103.100	1"-8UN	M24x3	HTT.10103.024						
V-4	HTT.10104.118	1.1/8"-8UN	M27x3	HTT.10104.027	415.52	41.702	4.295	2770.96	15	6.2
	HTT.10104.114	1.1/4"-8UN	M30x3.5	HTT.10104.030						
			M33x3.5	HTT.10104.033						
V-5	HTT.10105.138	1.3/8"-8UN	M36x4	HTT.10105.036	628.64	63.091	6.498	4192.25	15	8.65
	HTT.10105.112	1.1/2"-8UN	M39x4	HTT.10105.039						
V-6	HTT.10106.158	1.5/8"-8UN	M42x4.5	HTT.10106.042	878.45	88.162	9.08	5858.05	15	12.08
	HTT.10106.134	1.3/4"-8UN	M45x4.5	HTT.10106.045						
V-7	HTT.10107.178	1.7/8"-8UN	M48x5	HTT.10107.048	1184.49	118.877	12.243	7898.69	15	16.34
	HTT.10107.200	2"-8UN	M52x5	HTT.10107.052						
V-8	HTT.10108.214	2.1/4"-8UN	M56x5.5	HTT.10108.056	1905.46	191.234	19.695	12706.43	15	28.27
	HTT.10108.212	2.1/2"-8UN	M60x5.5	HTT.10108.060						
			M64x6	HTT.10108.064						
V-9	HTT.10109.234	2.3/4"-8UN	M68x6	HTT.10109.068	2544.02	255.321	26.295	16964.48	15	40.13
	HTT.10109.300	3"-8UN	M72x6	HTT.10109.072						
			M76x6	HTT.10109.076						
V-10	HTT.10110.314	3.1/4"-8UN	M80x6	HTT.10110.080	3521.35	353.407	36.397	23481.89	15	64.76
	HTT.10110.312	3.1/2"-8UN	M85X6	HTT.10110.085						
			M90X6	HTT.10110.090						
V-11	HTT.10111.334	3.3/4"-8UN	M95X6	HTT.10111.095	4653.38	467.018	48.098	31030.91	15	88.36
	HTT.10111.400	4"-8UN	M100X6	HTT.10111.100						

# Sockets





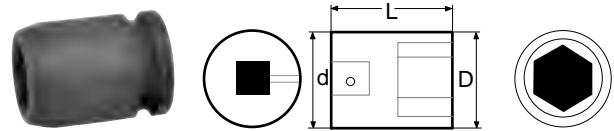
Atlas Copco offers a wide range of standard and special power sockets that will fulfill your needs and help ensure that your tools reach their full potential. Contact your local Atlas Copco representative to find out more about our special socket offer.

# Power sockets

## Power sockets

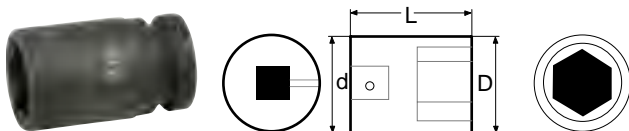
To achieve the right tightening torque it is important to use the correct socket size and socket length. Extension pieces and worn sockets will reduce the effective tightening torque and service life of the tool.

## Power socket 3/8" square drive



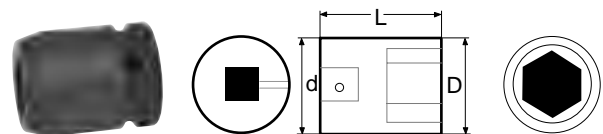
3/8"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.
mm	7	12.5	19	30	4026 0907 00
	8	14	19	30	4026 0908 00
	9	15	19	30	4026 0909 00
	10	16	19	30	4026 0910 00
	11	17.5	19	30	4026 0911 00
	12	19	19	30	4026 0912 00
	13	20	22	30	4026 0913 00
	14	21	22	30	4026 0914 00
	16	24	22	30	4026 0916 00
	17	25	22	30	4026 0917 00
	18	26	22	30	4026 0918 00
	19	27.5	22	30	4026 0919 00
in	5/16	12.5	19	30	4026 0908 00
	3/8	14.5	19	30	4026 1012 00
	13/32	15	19	30	4026 0910 00
	7/16	17	19	30	4026 0911 00
	15/32	18	19	30	4026 0912 00
	1/2	19	19	30	4026 1016 00
	9/16	20	20	30	4026 1018 00
	3/4	26	26	34	4026 0919 00

## Power socket 1/4" square drive



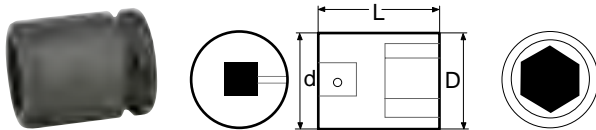
1/4"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.
mm	4	7.5	13	25	4026 0604 00
	5	8.5	13	25	4026 0605 00
	5.5	9	13	25	4026 0605 50
	6	9.5	13	25	4026 0606 00
	7	11	13	25	4026 0607 00
	8	12	13	25	4026 0608 00
	9	13	13	25	4026 0609 00
	10	14.5	13	25	4026 0610 00
	11	16	13	25	4026 0611 00
	12	17	13	25	4026 0612 00
	13	18	13	25	4026 0613 00
	14	19	13	25	4026 0614 00
in	7/32	9	13	25	4026 0605 50
	1/4	9.5	13	25	4026 0708 00
	9/32	11	13	25	4026 0607 00
	5/16	12	13	25	4026 0608 00
	3/8	14.5	13	25	4026 0712 00
	13/32	14.5	13	25	4026 0610 00
	7/16	16	13	25	4026 0611 00
	15/32	17	13	25	4026 0612 00
	1/2	18	13	25	4026 0716 00
	9/16	19	13	25	4026 0614 00

## Power socket 1/2" square drive



1/2"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.
mm	10	17	25	38	4026 1210 00
	11	19	25	38	4026 1211 00
	12	20	25	38	4026 1212 00
	13	21	25	38	4026 1213 00
	14	22	25	38	4026 1214 00
	16	25	30	38	4026 1216 00
	17	26	30	38	4026 1217 00
	18	27.5	30	38	4026 1218 00
	19	29	30	38	4026 1219 00
	21	32	30	38	4026 1221 00
	22	32	30	38	4026 1222 00
	24	35	30	45	4026 1224 00
	27	39	30	50	4026 1227 00
in	3/8	16	22	38	4026 1312 00
	7/16	18	22	38	4026 1211 00
	1/2	20	22	38	4026 1316 00
	9/16	22	24	38	4026 1318 00
	3/4	28	28	38	4026 1219 00
	15/16	35	30	45	4026 1224 00
	1 1/8	40	38	40	4026 1336 00

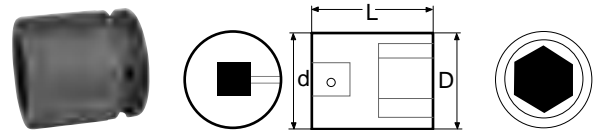
### Power socket 3/4" square drive



3/4"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
mm	18	32	44	50	4026 1918 00	A
	19	33	44	50	4026 1919 00	A
	21	36	44	50	4026 1921 00	A
	22	37	44	50	4026 1922 00	A
	24	40	44	52	4026 1924 00	A
	27	43	44	54	4026 1927 00	A
	30	47	44	54	4026 1930 00	A
	32	49	44	56	4026 1932 00	A
	34	52	44	56	4026 1934 00	A
	36	54	44	55	4026 1936 00	A
in	3/4	33	44	50	4026 1919 00	A
	15/16	40	44	52	4026 1924 00	A
	1 1/8	42	44	52	4026 2036 00	A
	1 5/16	47	44	56	4026 2042 00	A
	1 1/2	53	44	56	4026 2048 00	A

<sup>a</sup> See table for pin and o-ring.

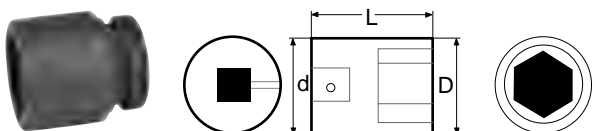
### Power socket 1 1/2" square drive



1 1/2"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
mm	50	81.5	86	87	4026 3850 00	F
	55	87.5	86	90	4026 3855 00	F
	60	94	86	95	4026 3860 00	F
	65	100	86	100	4026 3865 00	F
	70	106	86	105	4026 3870 00	F
	75	112	86	110	4026 3875 00	F
	80	119	86	116	4026 3880 00	F

<sup>a</sup> See table for pin and o-ring.

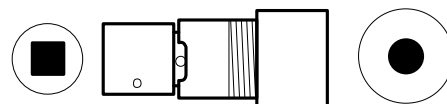
### Power socket 1" square drive



1"	Width across flats	D mm	d mm	Overall length L mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
mm	24	42	54	58	4026 2524 00	C
	27	46	54	58	4026 2527 00	C
	30	50	54	60	4026 2530 00	C
	32	52	54	60	4026 2532 00	C
	34	55	54	60	4026 2534 00	C
	36	57	54	65	4026 2536 00	C
	41	64	54	67	4026 2541 00	C
	46	69.5	54	74	4026 2546 00	C
	50	75	54	80	4026 2550 00	C
	55	81	54	84	4026 2555 00	C
	60	87	54	87	4026 2560 00	C
	65	93	54	90	4026 2565 00	C
in	15/16	42	54	58	4026 2524 00	C
	1 1/8	46	54	58	4026 2636 00	
	1 5/16	53	51	62	4026 2642 00	
	1 11/16	65	52	64	4026 2654 00	
	1 7/8	70	58	66	4026 2660 00	

<sup>a</sup> See table for pin and o-ring.

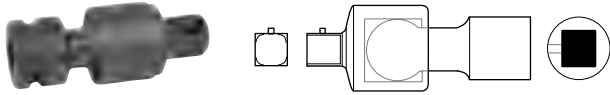
### Stud setter



Square drive in	Ordering No.	Holder drive nut	Ordering No.
1/2	4023 0752 80	M6	4023 0761 00
		M8	4023 0762 00
		M10	4023 0756 00
		M12	4023 0757 00

# Power sockets

## Universal joints



Male square in	Square drive in	Diameter mm	Length mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
3/8	3/8	23	60	4023 1182 00	
1/2	1/2	29	76	4023 0745 00	
5/8	5/8	38	69	4023 0875 00	
3/4	3/4	46	89	4023 0857 00	B
1	1	60	112	4023 1060 00	C
1 1/2	1 1/2	84	162	4023 1316 00	F

<sup>a</sup> See table for pin and o-ring.

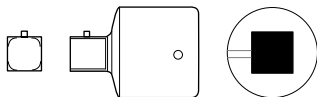
## Locking pins and O-rings



Ref. letter	Locking pin		O-ring		Pin and O-ring Ordering No.
	Diameter mm	Length mm	Diameter mm	Inner diameter mm	
A <sup>b</sup>	4	35	5	33	4026 5000 90
B	4	45	5	33	4026 5000 91
C	5	45	6	44	4026 5000 92
D	5	60	6	59	4026 5000 93
E	5	70	6	65	4026 5000 94
F	6	75	6	65	4026 5000 95
G	6	75	6	79	4026 5000 96
H	6	95	6	94	4026 5000 97

<sup>b</sup> B type pin also included.

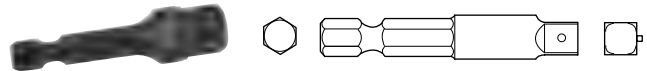
## Socket adapters



Male square in	Square drive in	Diameter mm	Length mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
1/2	3/8	23	35	4023 1153 00	
3/8	1/2	24	39	4023 1154 00	
5/8	1/2	29	43	4023 1155 00	
1/2	5/8	32	49	4023 0733 00	
3/4	5/8	38	54	4023 1156 00	
1/2	3/4	38	57	4023 0909 00	A
1	3/4	44	65	4023 1157 00	B
3/4	1	54	75	4023 0868 00	C
1	1 1/2	83	100	4023 1314 00	F

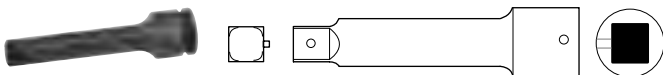
<sup>a</sup> See table for pin and o-ring.

## Power socket holders



Hex in	Square in	Length mm	Ordering No.
1/4	1/4	50.8	4023 0686 00
1/4	1/4	76.2	9721 4234 00
1/4	1/4	101.6	4023 0687 00
1/4	1/4	152.4	4023 1203 00
1/4	3/8	50.8	4023 0907 00
1/4	3/8	76.2	9721 4235 00
1/4	3/8	101.6	4023 1204 00
7/16	3/8	76.2	4023 1210 03
7/16	1/2	70.0	4023 1211 03

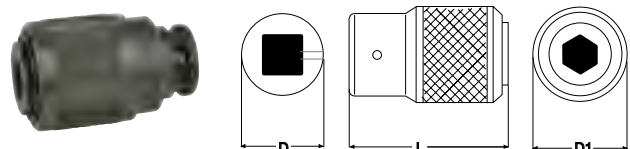
## Extensions



Male square in	Square drive in	Diameter mm	Length mm	Ordering No.	Pin <sup>a</sup> and O-ring ref. letter
3/8	3/8	21	152	4023 1164 06	
1/2	1/2	27	127	4023 0734 00	
1/2	1/2	27	254	4023 0735 00	
5/8	5/8	33	152	4023 0749 00	
3/4	3/4	38.5	178	4023 0854 00	A
3/4	3/4	38.5	330	4023 0855 00	A
1	1	54	178	4023 0751 00	C
1	1	54	330	4023 0867 00	C
1 1/2	1 1/2	88	330	4023 1315 00	G

<sup>a</sup> See table for pin and o-ring.

## Quick change chuck for power bits



Square drive in	Female hex in	Diameter		Length	Ordering No.
		D mm	D1 mm	L mm	
3/8	1/4	22	20	45	4023 1380 00
3/8	5/16	22	33	55	4023 1382 00
3/8	7/16	22	33	55	4023 1317 80
1/2	7/16	29	33	55	4023 0737 00

## Socket kits



WS1020



WS1021



WS1030



WS1031

Model	Square drive in	Socket type	Number of sockets	Sockets included	Ordering No.
WS1020	3/4"	Metric impact socket	8	26, 27, 29, 30, 32, 35, 36, 38 mm	4112 0607 95
WS1021	3/4" Deep	Metric deep impact socket	8	26, 27, 29, 30, 32, 35, 36, 38 mm	4112 0607 96
WS1030	1"	Metric impact socket	8	27, 30, 32, 33, 35, 36, 38, 41 mm	4112 0607 97
WS1031	1" Deep	Metric deep impact socket	4	27, 32, 33, 36 mm	4112 0607 98



WS1002



WS1003

Model	Square drive	Socket type	Number of sockets	Sockets included	Ordering No.
WS1001	3/8	Metric impact socket	13	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm	4112 0607 91
WS1011	3/8	Metric deep impact socket	13	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm	4112 0607 94
WS1002	1/2	Metric impact socket	14	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 26, 27 mm	4112 0607 92
WS1003	1/2	Metric deep impact socket	14	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 26, 27 mm	4112 0607 93

# Impacts

sockets



## 3/4" Drive sockets Standard, 12 point, and long socket metric

Model	Across flat	Ordering No.
2-012/19MM	3/4"=19 mm	8434 2050 58
2-012/19MM 12pt	3/4"=19 mm-12pt	8434 2050 60
2-16MM	16 mm	8434 2051 12
2-17MM	17 mm	8434 2051 14
2-18MM	18 mm	8434 2051 16
2-20MM	20 mm	8434 2051 38
2-21MM	21 mm	8434 2051 42
2-22MM	22 mm	8434 2051 44
2-22MM 12pt	22 mm-12 pt	8434 2124 85
2-22MM L	22 mm-L	8434 2124 88
2-23MM	23 mm	8434 2124 91
2-24MM	24 mm	8434 2051 46
2-26MM	26 mm	8434 2051 48
2-28MM	28 mm	8434 2124 94
2-29MM	29 mm	8434 2124 97
2-32MM	32 mm	8434 2051 50
2-32MM 12pt	32 mm-12pt	8434 2051 52
2-33MM	33 mm	8434 2125 00
2-34MM	34 mm	8434 2125 03
2-36MM	36 mm	8434 2125 06
2-36MM L	36 mm-L	8434 2051 54
2-37MM	37 mm	8434 2125 09
2-41MM	41 mm	8434 2051 56
2-41MM L	41 mm-L	8434 2051 58
2-42MM	42 mm	8434 2125 12
2-47MM	47 mm	8434 2125 15
2-50MM	50 mm	8434 2051 60
2-50MM 12pt	50 mm-12pt	8434 2125 18
2-50MM L	50 mm-L	8434 2125 21
2-52MM	52 mm	8434 2125 24
2-55MM	55 mm	8434 2051 62
2-55MM Long	55 mm-L	8434 2051 63
2-60MM	60 mm	8434 2051 66
2-212=70MM	2 3/4"-70 mm	8434 2051 40



## 3/4" Drive (continued) Standard, 12 point, and long socket imperial

Model	Across flat	Ordering No.
2-010	5/8" AF	8434 2059 01
2-011	11/16" AF	8434 2050 54
2-011 12pt	11/16" AF-12 pt	8434 2050 56
2-012 L	3/4" Sq Dr	8434 2124 37
2-013	13/16" AF	8434 2050 62
2-013 12pt	13/16"-12 pt	8434 2050 64
2-014	7/8"	8434 2124 40
2-015	15/16"	8434 2050 66
2-015 12pt	15/16"-12pt	8434 2050 68
2-100	1"	8434 2050 70
2-100 12pt	1"-12pt	8434 2050 72
2-101	1 1/16"-27	8434 2050 74
2-101 12pt	1 1/16"-27-12pt	8434 2050 76
2-102	1 1/8"	8434 2050 78
2-102 12 PT	1 1/8"-12pt	8434 2124 43
2-103	1 3/16"-30"	8434 2050 80
2-103 12pt	1 3/16"-30-12pt	8434 2050 82
2-103 L	1 3/16"-30-L	8434 2050 84
2-104	1 1/4"	8434 2124 46
2-104 12pt	1 1/4"-12pt	8434 2050 86
2-105	1 5/16"	8434 2124 49
2-106	1 3/8"-35	8434 2124 52
2-106 12pt	1 3/8"-35-12pt	8434 2050 88
2-107	1 7/16"	8434 2124 55
2-107 12pt	1 7/16"-12pt	8434 2050 90
2-107 L	1 7/16" L	8434 2124 58
2-108	1 1/2"-38	8434 2124 61
2-108 12pt	1 1/2"-38-12pt	8434 2050 92
2-109	1 9/16"	8434 2050 94
2-109 12pt	1 9/16"-12pt	8434 2050 96
2-110	1 5/8"	8434 2050 98
2-110 L	1 5/8" L	8434 2124 64
2-111	1 11/16"-43	8434 2051 00
2-111 12pt	1 11/16"-43-12pt	8434 2051 02
2-112	1 3/4"	8434 2124 67
2-112 12pt	1 3/4"-12pt	8434 2051 04
2-113	1 13/16"-46	8434 2051 06
2-113 12pt	1 13/16"-46-12pt	8434 2051 08
2-113 L	1 13/16"-46L	8434 2124 70
2-114	1 7/8"	8434 2124 73
2-114 12pt	1 7/8" 12pt	8434 2051 10
2-200	2"	8434 2124 76
2-200 12pt	2"-12pt	8434 2051 18
2-200-L	2"-L	8434 2051 20



**1" Drive sockets  
Standard, 12 point,  
and long socket metric**

Model	Across flat	Ordering No.
9-19MM	3/4"-19	8434 2054 48
9-19MM 12pt	3/4"-19-12pt	8434 2126 89
9-19MM L	3/4"-19-L	8434 2054 49
9-21MM	21 mm	8434 2055 58
9-22MM	22 mm	8434 2055 60
9-22MM Long	22 mm-L	8434 2055 62
9-24MM	24 mm	8434 2127 85
9-24MM 12pt	24 mm-L	8434 2127 88
9-27MM	1 1/16"-27	8434 2054 64
9-27MM 12pt	1 1/16"-27-12pt	8434 2054 66
9-30MM	1 3/16"-30	8434 2054 72
9-30MM 12pt	1 3/16"-30-12pt	8434 2054 74
9-30MM L	1 3/16"-30-L	8434 2126 98
9-32MM	32 mm	8434 2055 88
9-32MM 12pt	32 mm-12pt	8434 2128 18
9-36MM	36 mm	8434 2055 90
9-36MM 12pt	36 mm-12pt	8434 2128 30
9-41MM	41 mm	8434 2056 00
9-41MM 12pt	41 mm-12pt	8434 2128 45
9-46MM	1 13/16"-46	8434 2055 00
9-46MM 12pt	46 mm-12pt	8434 2128 57
9-46MM L	1 13/16"-46-L	8434 2055 04
9-46MM-12pt	1 13/16"-46-12pt	8434 2054 95
9-46MM-L*	1 13/16"-46-L	8434 2054 93
9-50MM	50 mm	8434 2056 02
9-50MM 12pt	50 mm-12pt	8434 2128 66
9-55MM	55 mm	8434 2056 04
9-55MM 12pt	55 mm-12pt	8434 2128 72
9-55MM L	55 mm-L	8434 2056 06
9-60MM	60 mm	8434 2056 08
9-60MM 12pt	60 mm-12pt	8434 2128 78
9-65MM	2 9/16"-65	8434 2055 36
9-65MM 12 PT	2 9/16"-65-12pt	8434 2055 37
9-65MM L	2 9/16"-65-L	8434 2055 38
9-70MM	2 3/4"-70	8434 2055 48
9-70MM 12pt	2 3/4"-70-12pt	8434 2055 50
9-70MM L	2 3/4"-70-L	8434 2055 52
9-75MM	75 mm	8434 2056 10
9-80MM	80 mm	8434 2056 12
9-85MM	85 mm	8434 2056 14
9-85MM L	85 mm-L	8434 2056 16
9-90MM	90 mm	8434 2056 18
9-95MM	3 3/4"-95	8434 2055 86
9-95MM 12pt	3 3/4"-95-12pt	8434 2128 12
9-100MM	100 mm	8434 2054 62



**1" Drive (continued)  
Standard, 12 point,  
and long socket imperial**

Model	Across flat	Ordering No.
9-012	3/4"-19	8434 2054 48
9-012 12pt	3/4"-19-12pt	8434 2126 89
9-012 L	3/4"-19-L	8434 2054 49
9-014	7/8"	8434 2054 50
9-014 12pt	7/8"-12pt	8434 2054 52
9-100	1"	8434 2054 58
9-100 12pt	1"-12pt	8434 2054 60
9-100 L	1"-L	8434 2126 92
9-100 L 12pt	1"-12pt-L	8434 2126 95
9-104	1 1/14"	8434 2127 01
9-104 12 PT	1 1/4"-12pt	8434 2127 04
9-104 L 12pt	1 1/4"-12pt-L	8434 2054 76
9-107	1 7/16"	8434 2054 82
9-107 12pt	1 7/16"-12pt	8434 2127 13
9-107 L	1 7/16"-L	8434 2054 84
9-107 L 12pt	1 7/16"-12pt-L	8434 2054 86
9-108	1 1/12"-38	8434 2127 16
9-108 12pt	1 1/2"-38-12pt	8434 2127 19
9-108-L-12pt	1 1/2"-38-L-12pt	8434 2054 87
9-110	1 5/8"	8434 2054 92
9-110 12pt	1 5/8"-12pt	8434 2054 94
9-110 L	1 5/8"-L	8434 2127 22
9-113	1 13/16"-46	8434 2055 00
9-113 L	1 13/16"-46-L	8434 2055 04
9-113-12pt	1 13/16"-46-12pt	8434 2054 95
9-113-L	1 13/16"-46-L	8434 2054 93
9-200	2"	8434 2127 34
9-200 12pt	2"-12pt	8434 2055 14
9-200 L	2"-L	8434 2055 16
9-200 L 12pt	2"-12pt-L	8434 2055 18
9-200 TW	2"-TW	8434 2127 37
9-203	2 3/16"	8434 2127 46
9-203 12pt	2 3/16"-12pt	8434 2127 49
9-203 L	2 3/16"-L	8434 2127 52
9-206	2 3/8"	8434 2127 55
9-206 12pt	2 3/8"-12pt	8434 2127 58
9-206 L	2 3/8"-L	8434 2127 61
9-209	2 9/16"-65	8434 2055 36
9-209 12 PT	2 9/16"-65-12pt	8434 2055 37
9-209 L	2 9/16"-65-L	8434 2055 38
9-209=65M 12 PT	2 9/16"-65-12pt	8434 2055 34
9-212	2 3/4"-70	8434 2055 48
9-212 12pt	2 3/4"-70-12pt	8434 2055 50
9-212 L	2 3/4"-70-L	8434 2055 52
9-215	2 15/16"	8434 2127 82
9-215 12pt	2 15/16"-12pt	8434 2055 56
9-300	3"	8434 2128 00
9-300 12pt	3"-12pt	8434 2055 64
9-302	3 1/8"	8434 2055 70
9-302 12pt	3 1/8"-12pt	8434 2055 72
9-308	3 1/2"	8434 2055 84
9-314	3 7/8"	8434 2128 15

# Impacts

sockets



## 1 1/2" Drive sockets. Standard, 12 point, and long socket metric

Model	Across flat	Ordering No.
5-27MM	1 1/16"-27	8434 2051 78
5-27MM 12pt	1 1/16"-27-12pt	8434 2125 42
5-30MM	1 3/16"-30	8434 2051 84
5-30MM 12pt	1 3/16"-30-12pt	8434 2125 48
5-32MM	32 mm	8434 2053 28
5-36MM	36 mm	8434 2053 30
5-41MM	41 mm	8434 2125 93
5-46MM	1 1/16"-46	8434 2052 24
5-46MM 12pt	1 13/16"-46-12pt	8434 2052 26
5-50MM	50 mm	8434 2053 56
5-50MM 12pt	50 mm-12pt	8434 2126 11
5-50MM L	50 mm-L	8434 2126 14
5-55MM	55 mm	8434 2053 62
5-60MM	60 mm	8434 2053 64
5-60MM L	60 mm-L	8434 2126 23
5-65MM	65 mm	8434 2126 29
5-65MM	2 9/16"-65	8434 2052 76
5-65MM-12pt	2 9/16"-65-12pt	8434 2052 78
5-70MM	70 mm	8434 2126 32
5-70MM	2 3/4"-70	8434 2052 86
5-70MM 12pt	2 3/4"-70-12pt	8434 2052 88
5-75MM	75 mm	8434 2126 35
5-75MM L	75 mm-L	8434 2126 38
5-80MM	80 mm	8434 2053 66
5-85MM	85 mm	8434 2053 68
5-90MM	90 mm	8434 2053 70
5-95MM	95 mm	8434 2126 44
5-95MM	3 3/4"-95	8434 2053 24
5-100MM	100 mm	8434 2051 76
5-105MM	4 1/8"-105	8434 2053 36
5-110MM	110 mm	8434 2052 14
5-115MM	115 mm	8434 2052 36
5-120MM	120 mm	8434 2052 38
5-125MM	125 mm	8434 2052 40
5-130MM	130 mm	8434 2059 02
5-135MM	135 mm	8434 2125 54
5-145MM	145 mm	8434 2125 57
5-150MM	150 mm	8434 2059 03
5-155MM	155 mm	8434 2059 04



## 1 1/2" Drive (continued) Standard, 12 point, and long socket imperial

Model	Across flat	Ordering No.
5-104	1 1/4"	8434 2051 86
5-104 12pt	1 1/4"-12pt	8434 2051 88
5-107	1 7/16"	8434 2051 98
5-107 12pt	1 7/16"-12pt	8434 2052 00
5-107 L	1 7/16"L	8434 2052 02
5-108	1 1/2"-38	8434 2052 04
5-108 12pt	1 1/2"-38-12pt	8434 2052 06
5-110	1 5/8"	8434 2052 10
5-110 12pt	1 5/8"-12pt	8434 2052 12
5-113	1 1/16"-46	8434 2052 24
5-113 12pt	1 13/16"-46-12pt	8434 2052 26
5-200	2"	8434 2052 42
5-200 12pt	2"-12pt	8434 2052 44
5-203	2 3/16"	8434 2052 54
5-203 12pt	2 3/16"-12pt	8434 2052 56
5-206	2 3/8"	8434 2125 60
5-206 12pt	2 3/8"-12pt	8434 2052 66
5-206 L	2 3/8"L	8434 2052 68
5-209	2 9/16"-65	8434 2052 76
5-209-12pt	2 9/16"-65-12pt	8434 2052 78
5-212	2 3/4"-70	8434 2052 86
5-212 12pt	2 3/4"-70-12pt	8434 2052 88
5-212-SP	2 3/4" special	8434 2125 69
5-215	2 15/16"	8434 2052 96
5-215 12pt	2 15/16"-12pt	8434 2052 98
5-300	3"	8434 2053 00
5-300 12pt	3"-12pt	8434 2053 02
5-302	3 1/8"	8434 2125 72
5-302 12pt	3 1/8"-12pt	8434 2053 08
5-302-TW	3 1/8"-TW	8434 2125 75
5-308	3 1/2"	8434 2053 18
5-308 12pt	3 1/2"-12pt	8434 2053 20
5-314	3 7/8"	8434 2053 26
5-401	4 1/16"	8434 2053 35
5-404	4 1/4"	8434 2053 38
5-404 12pt	4 1/4"-12pt	8434 2053 40
5-410	4 5/8"	8434 2053 44
5-500	5"	8434 2053 48
5-506	5 3/8"	8434 2053 54
5-512	5 3/4"	8434 2053 58
5-514	5 7/8"	8434 2053 60
5-602	6 1/8"	8434 2059 05



**2 1/2" Drive sockets  
Standard, 12 point,  
and long socket metric**

Model	Across flat	Ordering No.
6-55MM	55 mm	8434 2054 08
6-60MM	60 mm	8434 2059 06
6-75MM	75 mm	8434 2059 07
6-80MM	80 mm	8434 2054 12
6-85MM	85 mm	8434 2054 16
6-90MM	90 mm	8434 2054 18
6-65MM	2 9/16"-65	8434 2053 86
6-70MM	2 3/4"-70	8434 2053 88
6-95MM	3 3/4"-95	8434 2053 94
6-100MM	100 mm	8434 2053 72
6-105MM	105 mm	8434 2126 47
6-110MM	110 mm	8434 2053 74
6-115MM	115 mm	8434 2053 76
6-120MM	120 mm	8434 2053 78
6-125MM	125 mm	8434 2053 80
6-130MM	130 mm	8434 2053 82
6-135MM	135 mm	8434 2053 84
6-140MM	140 mm	8434 2126 50
6-145MM	145 mm	8434 2059 08
6-150MM	150 mm	8434 2059 09
6-155MM	155 mm	8434 2059 10
6-160MM	160 mm	8434 2059 11
6-165MM	165 mm	8434 2059 12
6-170MM	170 mm	8434 2059 13
6-175MM	175 mm	8434 2059 14
6-180MM	180 mm	8434 2059 15
6-185MM	185 mm	8434 2059 16
6-190MM	190 mm	8434 2059 17
6-200MM	200 mm	8434 2059 18
6-210MM	210 mm	8434 2059 19
6-215MM	215 mm	8434 2059 20
6-235MM	235 mm	8434 2059 21
6-255MM	255 mm	8434 2059 22



**2 1/2" Drive sockets (continued)  
Standard, 12 point,  
and long socket imperial**

Model	Across flat	Ordering No.
6-209	2 9/16"-65	8434 2053 86
6-212	2 3/4"-70	8434 2053 88
6-312	3 3/4"-95	8434 2053 94
6-402	4 1/8"-105	8434 2054 00
6-200	2"	8434 2053 85
6-203	2 3/16"	8434 2126 53
6-206	2 3/8"	8434 2126 56
6-207	2 7/16"	8434 2126 59
6-215	2 15/16"	8434 2053 90
6-300	3"	8434 2126 62
6-302	3 1/8"	8434 2126 65
6-308	3 1/2"	8434 2053 92
6-310	3 5/8"	8434 2126 68
6-314	3 7/8"	8434 2053 96
6-400	4"	8434 2053 98
6-401	4 1/16"	8434 2053 99
6-404	4 1/4"	8434 2054 02
6-406	4 3/8"	8434 2126 71
6-410	4 5/8"	8434 2054 04
6-500	5"	8434 2126 74
6-503	5 3/16"	8434 2054 06
6-506	5 3/8"	8434 2126 77
6-512	5 3/4"	8434 2126 80
6-602	6 1/8"	8434 2126 83
6-608	6 1/2"	8434 2054 10
6-814	8 7/8"	8434 2054 14
6-206	2 3/8"	8434 2126 56
6-215	2 15/16IN	8434 2053 90
6-300	3"	8434 2126 62
6-302	3 1/8"	8434 2126 65
6-308	3 1/2IN	8434 2053 92
6-314	3 7/8IN	8434 2053 96
6-700	7" AF	8434 2059 23
6-705	7-5/16" AF	8434 2059 24
6-713	7-13/16" AF	8434 2059 25
6-902	9 1/8" AF	8434 2059 26
6-1000	10" AF	8434 2059 27

# Bits

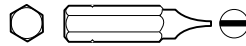
## Screwdriver bits – Hexagon drive

**DRIVE SYSTEM: 1/4" HEXAGON, STYLE C 6.3**

**SCREW PROFILE:**



### Slotted bits



Application: For slotted screws  
Drive: 1/4" Hexagon, Style C 6.3

Blade thickness mm	Blade width mm	Length mm	Ordering No.
0.55	3.5	25	4023 1400 21
0.6	4	25	4023 1400 22
0.8	5.5	25	4023 1400 26

### Phillips bits



Application: For Phillips screws  
Drive: 1/4" Hexagon, Style C 6.3

Point	Length mm	Ordering No.
PH0	25	4023 1326 00
PH1	25	4023 0696 01
PH2	25	4023 0697 01
PH3	25	4023 0698 01

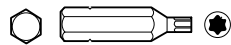
### Hex bits



Application: For Hex-socket screws  
Drive: 1/4" Hexagon, Style C 6.3

Point	Length mm	Ordering No.
2	25	4023 1318 00
2.5	25	4023 1319 00
3	25	4023 0819 00
4	25	4023 1320 00
5	25	4023 0820 00
6	25	4023 0821 00
7	25	4023 1430 00
8	25	4023 0905 00

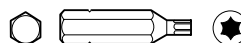
### TorxPlus bits



Application: For TorxPlus screws  
Drive: 1/4" Hexagon, Style C 6.3

Point	Length mm	Ordering No.
IP6	25	4023 0001 70
IP8	25	4023 0001 74
IP10	25	4023 0001 78

### Torx bits



Application: For Torx screws  
Drive: 1/4" Hexagon, Style C 6.3

Point	Length mm	Ordering No.
TX6	25	4023 0001 60
TX8	25	4023 1329 00
TX9	25	4023 1330 00
TX10	25	4023 1321 00
TX15	25	4023 1331 00
TX20	25	4023 1322 00
TX25	25	4023 1332 00
TX27	25	4023 1333 00
TX30	25	4023 1323 00
TX40	25	4023 1334 00

## Pozidriv bits



Application: For Pozidriv screws  
Drive: 1/4" Hexagon, Style C 6.3

Point	Length mm	Ordering No.
PZ1	25	4023 1101 11
PZ2	25	4023 1101 12
PZ3	25	4023 1101 13

**DRIVE SYSTEM: 5/16" HEXAGON, STYLE C 8**

**SCREW PROFILE:**



## Hex bits



Application: For Hex-socket screws  
Drive: 5/16" Hexagon, Style C 8

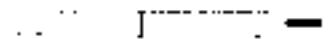
Point mm	Length mm	Ordering No.
5	34	4023 1215 00
6	25	4023 1216 00
7	25	4023 1219 00
8	25	4023 1217 00
10	25	4023 1218 00

**DRIVE SYSTEM: 3 MM HEXAGON**

**SCREW PROFILE:**



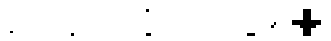
## Slotted bits



Application: For slotted screws  
Drive: 3 mm Hexagon

Blade thickness mm	Blade width mm	Length mm	Ordering No.
0.3	1.8	50	4023 0004 03
0.4	2	50	4023 0004 04
0.4	2.5	50	4023 0004 05
0.5	3	50	4023 0004 06
0.5	4	50	4023 0004 07
0.5	3.5	50	4023 0004 08
0.5	4.5	50	4023 0004 09
0.8	4	50	4023 0004 10
0.8	5.5	50	4023 0004 11

## Phillips bits

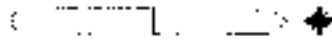


Application: For Phillips screws  
Drive: 3 mm Hexagon

Point	Length mm	Ordering No.
0	50	4023 0004 00
1	50	4023 0004 01
1	50	4023 0004 02

### Torx bits

Application: For Torx screws  
Drive: 3 mm Hexagon



Point	Length mm	Ordering No.
T6	50	4023 0004 14
T7	50	4023 0004 15
T8	50	4023 0004 16
T10	50	4023 0004 17

### Pozidriv bits

Application: For Pozidriv screws  
Drive: 3 mm Hexagon



Point	Length mm	Ordering No.
PZ0	50	4023 0004 12
PZ1	50	4023 0004 13

### DRIVE SYSTEM: 1/4" HEXAGON, STYLE E 6.3

#### SCREW PROFILE:



### Slotted bits

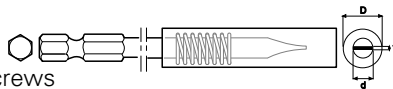
Application: For slotted screws  
Drive: 1/4" Hexagon, Style E 6.3



Blade thickness mm	Blade width mm	Length mm	Ordering No.
3.2	0.7	49	4023 2020 21
3.9	0.8	49	4023 2020 23
4.7	0.9	49	4023 2020 24
6.3	1	49	4023 2020 26
7	1.1	49	4023 2020 27
7.9	1.2	49	4023 2020 28
9.1	1.3	49	4023 2020 29
3.2	0.7	76	4023 2030 21
3.9	0.8	76	4023 2030 23
4.7	0.9	76	4023 2030 24

### Slotted bits with finder

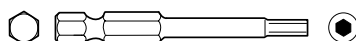
Application: For slotted screws  
Drive: 1/4" Hexagon, Style E 6.3



Outside dia (D) mm	Blade thickness (t) mm	Blade width (d) mm	Length mm	Ordering No.
9.5	0.9	4.9	95	4023 0683 00
11.1	1	6.1	93	4023 1313 00
12.7	1.1	7.4	93	4023 0684 00
14.3	1.2	8.9	96	4023 0949 00
15.9	1.3	10.0	95	4023 0685 00

### Hex bits

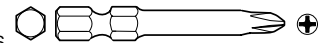
Application: For Hex-socket screws  
Drive: 1/4" Hexagon, Style E 6.3



Point mm	Length mm	Ordering No.
2	49	4023 1311 00
2.5	49	4023 1312 00
3	49	4023 0710 00
4	49	4023 0711 00
5	49	4023 0712 00
6.35	49	4023 0906 00
8	49	4023 1369 00
10	49	4023 1370 00

### Phillips bits

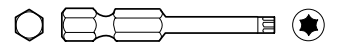
Application: For Phillips screws  
Drive: 1/4" Hexagon, Style E 6.3



Point	Length mm	Ordering No.
PH00	50	4023 0001 51
PH00	70	4023 0001 52
PH00	90	4023 0001 53
PH0	50	4023 1325 00
PH1	50	4023 2320 21
PH1	70	4023 2327 21
PH1	89	4023 2335 21
PH1	152	4023 2360 21
PH2	50	4023 2320 22
PH2	70	4023 2327 22
PH2	89	4023 2335 22
PH2	152	4023 2360 22
PH3	50	4023 2320 23
PH3	70	4023 2327 23
PH3	89	4023 2335 23
PH3	152	4023 2360 23

### Torx bits

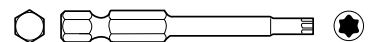
Application: For Torx screws  
Drive: 1/4" Hexagon, Style E 6.3



Point	Length mm	Ordering No.
TX5	49	4023 0002 16
TX5	70	4023 0002 17
TX6	49	4023 0001 61
TX6	70	4023 0001 62
TX6	90	4023 0001 63
TX7	49	4023 0002 18
TX7	70	4023 0002 19
TX8	49	4023 2220 21
TX8	90	4023 2235 21
TX9	49	4023 2220 22
TX9	90	4023 2235 22
TX10	49	4023 2220 23
TX10	90	4023 2235 23
TX15	49	4023 2220 24
TX15	90	4023 2235 24
TX20	49	4023 2220 25
TX20	90	4023 2235 25
TX25	49	4023 2220 26
TX25	90	4023 2235 26
TX27	49	4023 2220 27
TX27	90	4023 2235 27
TX30	49	4023 2220 28
TX30	90	4023 2235 28
TX40	90	4023 2235 29

### TorxPlus bits

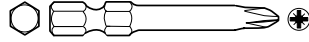
Application: For TorxPlus screws  
Drive: 1/4" Hexagon, Style E 6.3



Point	Length mm	Ordering No.
IP5	50	4023 0002 20
IP5	70	4023 0002 21
IP6	50	4023 0001 71
IP6	70	4023 0001 72
IP6	90	4023 0001 73
IP7	50	4023 0002 23
IP7	70	4023 0002 24
IP7	90	4023 0002 25
IP8	50	4023 0001 75
IP8	70	4023 0001 76
IP8	90	4023 0001 77
IP10	50	4023 0001 79
IP10	70	4023 0001 80
IP10	90	4023 0001 81

# Bits

## Pozidriv bits



Application: For Pozidriv screws  
Drive: 1/4" Hexagon, Style E 6.3

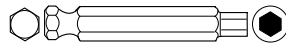
Point	Length mm	Ordering No.
PZ0	50	4023 0001 41
PZ0	70	4023 0001 42
PZ1	50	4023 2420 21
PZ1	70	4023 2427 21
PZ1	89	4023 2435 21
PZ2	50	4023 2420 22
PZ2	70	4023 2427 22
PZ2	70	4023 2435 22
PZ3	50	4023 2420 23
PZ3	89	4023 2435 23

**DRIVE SYSTEM: 7/16" HEXAGON, STYLE E 11.2**

**SCREW PROFILE:**



## Hex bits



Application: For Hex-socket screws  
Drive: 7/16" Hexagon, Style E 11.2

Point mm	Length mm	Ordering No.
5	70	4023 0800 00
6	70	4023 0801 00
8	70	4023 0802 00
10	70	4023 0760 00

## Bit holders

**DRIVE SYSTEM: 1/4" HEXAGON, STYLE E 6.3**

**APPLICATION: SUITABLE FOR BITS WITH 1/4" HEXAGON DRIVE**



## Standard type

Hex-drive	Hex-female	Dia-meter (D) mm	Length L mm	Length L1 mm	Magnetic	Ordering No.
1/4"	1/4"	11.1	46.5	28.5	Yes	4023 1208 01
1/4"	1/4"	11.1	46.5	55.5	Yes	4023 1208 02
1/4"	1/4"	11.1	46.5	103.7	Yes	4023 1209 00



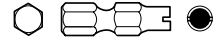
## Quick release type

Hex-drive	Hex-female	Dia-meter (D) mm	Length L mm	Length L1 mm	Magnetic	Ordering No.
1/4"	1/4"	9.4	35.7	25.4	Yes	4023 1353 00
1/4"	1/4"	9.4	50	25.4	Yes	4023 0707 00

## Adapters

**DRIVE SYSTEM: 1/4" HEXAGON, STYLE E 6.3**

**APPLICATION: FOR BITS WITH WING-SHANK 4 MM DRIVE**



## Adapters

Adapter	Ordering No.
Adapter	4220 0105 00

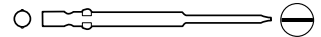
## Screwdriver Bits – Wing-shank Drive

**DRIVE SYSTEM: 4 MM WING-SHANK**

**SCREW PROFILE:**



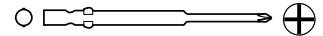
## Slotted bits



Application: For Slotted screws  
Drive: Wing-shank 4 mm

Blade thickness mm	Blade width mm	Length mm	Ordering No.
0.28	1.3	60	4023 1327 01
0.30	1.7	60	4023 1327 02
0.3	2.0	60	4023 1327 03
0.3	2.5	60	4023 1327 04

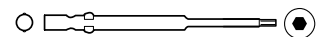
## Phillips bits



Application: For Phillips screws  
Drive: Wing-shank 4 mm

Point	Length mm	Ordering No.
PH00	40	4023 0002 56
PH0	40	4023 0002 57
PH0	60	4023 0002 03
PH1	40	4023 0002 58
PH2	40	4023 0002 59

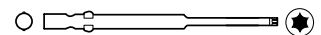
## Hex bits



Application: For Hex screws  
Drive: Wing-shank 4 mm

Point	Length mm	Ordering No.
1.5	60	4023 0002 60
2	60	4023 0002 61
2.5	60	4023 0002 62
3	60	4023 0002 63

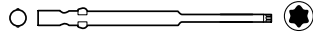
## Torx bits



Application: For Torx screws  
Drive: Wing-shank 4 mm

Point	Length mm	Ordering No.
TX1	40	4023 0002 52
TX2	60	4023 0002 53
TX3	60	4023 0002 54
TX4	60	4023 0001 90
TX5	60	4023 0001 91
TX6	60	4023 0001 92
TX8	60	4023 0001 93
TX10	60	4023 0001 94

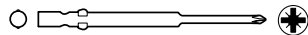
### TorxPlus bits



Application: For TorxPlus screws  
Drive: Wing-shank 4 mm

Point	Length mm	Ordering No.
IP4	60	4023 0002 10
IP5	60	4023 0002 11
IP6	60	4023 0002 12
IP8	60	4023 0002 13
IP10	60	4023 0002 14

### Pozidriv bits



Application: For Pozidriv screws  
Drive: Wing-shank 4 mm

Point	Length mm	Ordering No.
PZ0	60	4023 0002 03
PZ1	60	4023 0002 04
PZ2	60	4023 0002 55

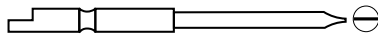
### Screwdriver bits – Halfmoon drive

#### DRIVE SYSTEM: 4 MM HALFMOON

#### SCREW PROFILE:



### Slotted bits



Application: For slotted screws  
Drive: Halfmoon 4 mm

Blade width mm	Blade thickness mm	Length mm	Ordering No.
2	0.3	44	4023 0002 37
2.5	0.3	44	4023 0002 38
3	0.4	44	4023 0002 39
4	0.5	44	4023 0002 40

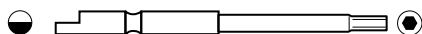
### Phillips bits



Application: For Phillips screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
PH000	44	4023 0001 10
PH000	64	4023 0001 11
PH00	44	4023 0001 12
PH00	64	4023 0001 13
PH0	44	4023 0001 14
PH0	64	4023 0001 15
PH1	44	4023 0001 16
PH1	64	4023 0001 17
PH1	90	4023 0001 18
PH2	44	4023 0002 30
PH2	64	4023 0002 31

### Hex bits



Application: For Hex-socket screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
1.5	44	4023 0002 41
2	44	4023 0002 42
2.5	44	4023 0002 43
3	44	4023 0002 44

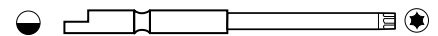
### Hex-socket bits



Nutsetter. Application: For nuts and thread-headed screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
2.3	44	4023 0002 45
2.5	44	4023 0002 46
3	44	4023 0002 47
4	44	4023 0002 48
4.5	44	4023 0002 49
5	44	4023 0002 50
5.5	44	4023 0002 51

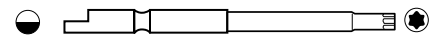
### Torx bits



Application: For Torx screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
TX1	44	4023 0002 32
TX2	44	4023 0001 06
TX3	44	4023 0001 08
TX3	64	4023 0001 09
TX4	44	4023 0001 20
TX4	64	4023 0001 21
TX5	44	4023 0001 22
TX5	64	4023 0001 23
TX6	44	4023 0001 24
TX6	64	4023 0001 25
TX8	44	4023 0001 26
TX8	64	4023 0001 27
TX10	44	4023 0001 28
TX10	64	4023 0001 29

### TorxPlus bits



Application: For TorxPlus screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
IP2	44	4023 0002 35
IP3	44	4023 0002 36
IP4	44	4023 0001 30
IP4	64	4023 0001 31
IP5	44	4023 0001 32
IP5	64	4023 0001 33
IP6	44	4023 0001 34
IP6	64	4023 0001 35
IP8	44	4023 0001 36
IP8	64	4023 0001 37
IP10	44	4023 0001 38
IP10	64	4023 0001 39

### Pozidriv bits



Application: For Pozidriv screws  
Drive: Halfmoon 4 mm

Point	Length mm	Ordering No.
PZ0	44	4023 0002 26
PZ0	64	4023 0002 27
PZ1	44	4023 0002 28
PZ1	64	4023 0002 29

# AIR LINE INSTALLATION

## CONTENT

AIRnet.....	140
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# AIRnet - Quality Piping Solution



AIRnet is a compressed air piping system that delivers quality air exactly where you need it, from compressor to the point of use.

It's fast. Thanks to a smart design and low weight materials, AIRnet can be installed 70 % faster than conventional systems.

It's easy to install. AIRnet pipes and fittings are assembled in just a few steps by a single installer, without the need for heavy machinery.

Best of all, it's reliable. AIRnet's low friction, seamless connections minimize pressure drop, thus reducing the cost of ownership of your piping system.

Please contact your Atlas Copco Tools representative to find out more.















The complete AIRnet product range, including part numbers, can be found in the separate AIRnet catalogue.

# Air Preparation Units



Atlas Copco air preparation units are designed to help you get maximum productivity from your tools. They ensure minimal pressure drop and therefore minimize energy losses in the air distribution system and cut operating costs. The lifetimes of your tools can be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation ensures productivity and good total economy.

## Selection Guide

Mini	Midi	Maxi
		
 <p>Small impact wrenches</p>  <p>Percussive tools</p>  <p>Small vane grinders</p>  <p>Small screwdrivers</p>  <p>Medium vane grinders</p>	 <p>Medium impact wrenches</p>  <p>Drills</p>	 <p>Large impact wrenches</p>  <p>Turbine grinders</p>  <p>Large vane grinders</p>  <p>Large turbine grinders</p>
0-9 l/s	9-31 l/s	31-82 l/s

# AIR

preparation units



MINI K

Air preparation unit **MINI-K**'s main application is to prepare the air for pneumatic components. **MINI-K** units have a 1/4" BSP connection thread, a composite housing made of polyamide 66 and the bowls are made of polycarbonate.

- **Working temperature**  
0°C to +50°C at 10 bar
- **Operating pressure**  
Inlet pressure 0-10 bar  
Outlet pressure 0.5-8 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/8" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MINI FIL 08K-B	12	30	Polycarbonate	Manual	12	-	0.1	9092 0000 01
<b>Regulators</b>								
MINI REG 08K	10	20	-	-	-	-	0.11	9092 0000 61
<b>Lubricators</b>								
MINI DIM 08K	9	23	Polycarbonate	-	-	35	0.09	9092 0000 91
<b>Filter/regulator</b>								
MINI F/R 08K	12	17	Polycarbonate	Manual	12	-	0.12	9092 0001 21
<b>Filter/regulator+lubricator</b>								
MINI F/RD 08K	9	14	Polycarbonate	Manual	12	35	0.32	9092 0001 51

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI K F/RD unit is delivered complete with mounting bracket, assembly kit and pressure gauge.



MINI B

Air preparation unit **MINI-B**'s main application is to prepare the air for pneumatic components and tools with low air consumption. **MINI-B** has a 1/4" BSP connection thread and the housing is made of diecast zinc. The bowls are made of polycarbonate or zinc.

- **Working temperature**  
0°C to +50°C at 10 bar
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/8" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MINI FIL 08B-B	12	24	Polycarbonate	Semi/automatic	22	-	0.25	9093 0032 11
MINI FIL 08B-C	12	24	Polycarbonate	Manual	22	-	0.25	9093 0032 41
MINI FIL 08B-D	13	24	Metal	Manual	22	-	0.25	9093 0032 71
<b>Regulators</b>								
MINI REG 08B	9	47.5	-	-	-	-	0.30	9093 0033 01
MINI REG 08B-LP	9	47.5	-	-	-	-	0.30	9093 0073 21
MINI REG 08P	8	47.5	-	-	-	-	0.30	9093 0000 31
<b>Lubricators</b>								
MINI DIM 08B	12	23	Polycarbonate	-	-	45	0.25	9093 0033 31
MINI DIM 08B-D	12	23	Metal	-	-	45	0.25	9093 0033 61
<b>Filter/regulator</b>								
MINI F/R 08B-B	9	38	Polycarbonate	Semi/automatic	22	-	0.35	9093 0033 91
MINI F/R 08B-C	9	38	Polycarbonate	Manual	22	-	0.35	9093 0034 21
<b>Filter/regulator+lubricator</b>								
MINI F/RD 08B-B	9	14.8	Polycarbonate	Semi/automatic	22	45	0.75	9093 0034 51
MINI F/RD 08B-C	9	14.8	Polycarbonate	Manual	22	45	0.75	9093 0034 81
<b>Filter+regulator+lubricator</b>								
MINI FRD 08B-B	9	13.8	Polycarbonate	Semi/automatic	22	45	0.95	9093 0062 11
MINI FRD 08B-C	9	13.8	Polycarbonate	Manual	22	45	0.95	9093 0062 41

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

# AIR

preparation units



MIDI Optimizer - 1/2"

The **MIDI Optimizer** is a self-regulating nanolubricator that automatically adjusts to the flow demand and ensures that the right amount of oil is supplied to the motor at all flow rates.

It is suitable for more than 90% of the Atlas Copco tool range. The unit has a 1/2" BSP connection thread and a housing and bowl of high-tech polymer. The bowl has a highly chemical resistant polypropylene insert.

- **Working temperature**  
-40°C to +60°C at 10 bar  
+2°C to +60°C at 10 bar for filters
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar  
Outlet pressure, HP versions 0.5-16 bar

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MIDI Optimizer FIL A	-	117	Polymer, plastic insert	Automatic	60	-	0.3	9093 0021 01
MIDI Optimizer FIL M/S	-	117	Polymer, plastic insert	Manual/semi auto	60	-	0.3	9093 0021 02
<b>Regulators</b>								
MIDI Optimizer REG	-	97	-	-	-	-	0.35	9093 0021 05
MIDI Optimizer REG LP	-	97	-	-	-	-	0.35	9093 0021 06
MIDI Optimizer REG HP	-	97	-	-	-	-	0.35	9093 0021 30
<b>Lubricators</b>								
MIDI Optimizer DIM	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 10
MIDI Optimizer DIM EP	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 33
<b>Filter/regulator</b>								
MIDI Optimizer F/R A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 12
MIDI Optimizer F/R M/S	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 13
MIDI Optimizer F/R M/S HP	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 31
MIDI Optimizer F/R HP A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 32
<b>Filter/regulator+lubricator</b>								
MIDI Optimizer F/RD A	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 16
MIDI Optimizer F/RD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 17
MIDI Optimizer F/RD A EP	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 35
MIDI Optimizer F/RD M/S EP	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 36
<b>Filter+regulator+lubricator</b>								
MIDI Optimizer FRD A	31	55	Polymer, plastic insert	Automatic	60	90	1.1	9093 0021 24
MIDI Optimizer FRD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.1	9093 0021 25

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MIDI Optimizer F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

**EP** For impact and pulse tools  
**A** Automatic  
**M/S** Manual/semi automatic  
**HP** High pressure regulator  
**LP** Lockable regulator



MIDI Optimizer - 3/4"

The **MIDI Optimizer** is a self-regulating nanolubricator that automatically adjusts to the flow demand and ensures that the right amount of oil is supplied to the motor at all flow rates.

It is suitable for more than 90% of the Atlas Copco tool range. The unit has a 3/4" BSP connection thread and a housing and bowl of high-tech polymer. The bowl has a highly chemical resistant polypropylene insert.

- **Working temperature**  
-40°C to +60°C at 10 bar  
+2°C to +60°C at 10 bar for filters
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP
- **Operating pressure**  
Inlet pressure 0-16 bar  
Outlet pressure 0.5-8 bar  
Outlet pressure, HP versions 0.5-16 bar

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MIDI Optimizer 3/4" FIL A	-	117	Polymer, plastic insert	Automatic	60	-	0.3	9093 0021 40
MIDI Optimizer 3/4" FIL M/S	-	117	Polymer, plastic insert	Manual/semi auto	60	-	0.3	9093 0021 41
<b>Regulators</b>								
MIDI Optimizer 3/4" REG	-	97	-	-	-	-	0.35	9093 0021 42
MIDI Optimizer 3/4" REG LP	-	97	-	-	-	-	0.35	9093 0021 43
MIDI Optimizer 3/4" REG HP	-	97	-	-	-	-	0.35	9093 0021 44
<b>Lubricators</b>								
MIDI Optimizer 3/4" DIM	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 45
MIDI Optimizer 3/4" DIM EP	31	120	Polymer, plastic insert	-	-	90	0.3	9093 0021 54
<b>Filter/regulator</b>								
MIDI Optimizer 3/4" F/R A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 46
MIDI Optimizer 3/4" F/R M/S	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 47
MIDI Optimizer 3/4" F/R M/S HP	-	90	Polymer, plastic insert	Manual/semi auto	60	-	0.5	9093 0021 48
MIDI Optimizer F/R 3/4" HP A	-	90	Polymer, plastic insert	Automatic	60	-	0.5	9093 0021 49
<b>Filter/regulator+lubricator</b>								
MIDI Optimizer 3/4" F/RD A	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 50
MIDI Optimizer 3/4" F/RD A EP	31	55	Polymer, plastic insert	Automatic	60	90	1.0	9093 0021 55
MIDI Optimizer 3/4" F/RD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 56
MIDI Optimizer 3/4" F/RD M/S EP	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.0	9093 0021 51
<b>Filter+regulator+lubricator</b>								
MIDI Optimizer 3/4" FRD A	31	55	Polymer, plastic insert	Automatic	60	90	1.1	9093 0021 52
MIDI Optimizer 3/4" FRD M/S	31	55	Polymer, plastic insert	Manual/semi auto	60	90	1.1	9093 0021 53

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MIDI Optimizer F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

**EP** For impact and pulse tools  
**A** Automatic  
**M/S** Manual/semi automatic  
**HP** High pressure regulator  
**LP** Lockable regulator

# AIR

preparation units



MAXI B

The main application of this high flow air preparation unit is to prepare the air for pneumatic tools which are large air consumers and when long distribution hoses are being used. A good example is Atlas Copco turbine grinders. The **MAXI-B** has a diecast zinc housing and aluminum bowls with polypropylene inserts. The bowl is mounted directly on the housing for easy handling.

- **Working temperature**  
-10°C to +50°C at 10 bar  
NOTE: For dry compressed air, ice formation must be avoided.
- **Operating pressure**  
Inlet pressure 0-17.5 bar  
Outlet pressure 0.5-12 bar
- **Standard filter**  
30 µm
- **Pressure gauge**  
1/4" BSP

Model	Economical air flow l/s	Maximum air flow l/s	Bowl	Filter condensate drainage	Max condensate capacity cm <sup>3</sup>	Max oil capacity cm <sup>3</sup>	Weight kg	Ordering No.
<b>Filters</b>								
MAXI FIL 25B-B	106	190 <sup>a</sup>	Metal	Semi/automatic	130	-	0.9	9093 0074 21
<b>Regulators</b>								
MAXI REG 25B	85	333	-	-	-	-	1.2	9093 0074 61
MAXI REG 25B-LP	85	333	-	-	-	-	1.2	9093 0074 81
<b>Lubricators</b>								
MAXI DIM 25B	87	295	Metal	-	-	500	0.8	9093 0075 21
<b>Filter/regulator</b>								
MAXI F/R 25B-B	84	316	Metal	Semi/automatic	130	-	1.5	9093 0075 51
<b>Filter/regulator+lubricator</b>								
MAXI F/RD 25B-B	82	244	Metal	Semi/automatic	130	500	2.8	9093 0075 81
MAXI FRD 25B-B	81	209	Metal	Semi/automatic	130	500	3.3	9093 0076 01

<sup>a</sup>8 bar inlet pressure, 1 bar pressure drop.

**NOTE: Economical air flow:** 8 bar inlet pressure, 6.3 bar outlet pressure, 0.2 bar pressure drop.

**Maximum air flow:** 10 bar inlet pressure, 6.3 bar outlet pressure, 1 bar pressure drop.

All separate units, mounting brackets, assembly kits and pressure gauges need to be ordered separately. The MINI F/RD and FRD units are delivered complete with mounting bracket, assembly kit and pressure gauge.

# Accessories

Model	MINI-K	MINI-B	MIDI OPTIMIZER 1/2"	MIDI OPTIMIZER 3/4"	MAXI-B
Mounting bracket kit <sup>a</sup>	9090 1902 00	9092 0063 01	9093 0022 01	9093 0022 01	9093 0076 15
Assembly kit <sup>a</sup>	9090 1901 90	9092 0062 71	9093 0022 02	9093 0022 02	9093 0076 31
Filter (FIL) accessories (30 µm filter element is included with all filters)					
30 µm filter element	9090 1898 00	9092 0063 31	9093 0023 04	9093 0023 04	9093 0076 61
5 µm filter element		9092 0063 61	9093 0023 05	9093 0023 05	9093 0076 71
Bowl guard		9092 0063 91			
Regulator (REG) accessories <sup>b</sup>					
Pressure gauge, 0-10 bar, Ø 40 mm	9090 1907 00	9090 1907 00			
Pressure gauge, 0-10 bar, Ø 50 mm		9090 1172 00	9090 2052 00	9090 2052 00	
Pressure gauge, 0-10 bar, Metal housing			9090 2052 01	9090 2052 01	
Pressure gauge, 0-16 bar, Ø 49 mm			9090 0239 00	9090 0239 00	9090 0239 00
Pressure gauge, 0-16 bar, Ø 50 mm		9090 1657 00			
Panel mounting pressure gauge, 0-10 bar, Ø 50 mm		9090 1173 00	9090 1173 00	9090 1173 00	
Panel mounting pressure gauge, 0-16 bar, Ø 63 mm					9093 0076 43
Key lock for regulator -LP		9092 0074 11	9092 0074 11	9092 0074 11	9092 0074 11
Lubricator (DIM) accessories					
Air distribution block kit	9090 1900 90	9092 0064 51	9093 0022 03	9093 0022 04	9093 0076 41
Bowl guard		9092 0063 91			
Glass sight dome		9090 1121 00			

<sup>a</sup> Are included in combination units (FD, FTD, F/RD and FRD). Mounting bracket kits and assembly kits have to be ordered separately for separate units.

<sup>b</sup> Pressure gauge 0-10 bar is included in the combination units (F/RD and FRD). Pressure gauge has to be ordered separately for separate units.

## Optimizer air tool oil

Atlas Copco Optimizer air tool oil is a white, oil based lubricant for pneumatic tools. It has excellent antiwear properties and contains additives preventing oxidation and foaming. Optimizer air tool oil provides a better working environment, compared to conventional mist lubrication oils and is recommended when stringent demands are placed on the working environment.

- **Temperature range**  
-25°C to +70°C
- **Density at 15°C**  
869 kg/m<sup>3</sup>
- **Viscosity at 40°C**  
22 mm<sup>2</sup>/s
- **Pour point**  
-48°C
- **Flash point COC**  
>170°C

Model	Ordering No.
Optimizer 0.5 liter	9090 0000 02
Optimizer 1 liter	9090 0000 04
Optimizer 4 liter	9090 0000 06

## FRL-stand

Model	Ordering No.
FRL-stand that suit all models	9090 2101 00
FRL-stand kit <sup>c</sup>	9090 3030 02

<sup>c</sup> For impact wrenches and pulse tools up to 1/2" BSP air inlet and 32 l/s air flow requirements.

Includes: Metal stand, large metal gauge up to 10 bar, ErgoQIC 10 coupling, 0.5 liter of optimizer oil, Turbo 13 hose with length 5 meters. The FRL-stand has BSP connection.



FRL-stand that suit all models



FRL-stand kit



Optimizer air tool oil

# AIR

preparation units

## Single point lubricator DOSOL

Accurate lubrication for tools in intermittent service. The Atlas Copco **DOSOL** system for direct lubrication is based on an injector pump which meters out the oil in exact doses, actuated by pulses of compressed air. The oil dosage can be regulated from a fraction of a drop to a full drop.

- **Exact amount** – Precision injector, adjustable for exact amount of oil.
- **Oil directly at the tool** – The oil is conveyed through a capillary tube directly to the lubrication point.

A single-point lubricator (SPL) consists of an injector pump fitted to a valve body, converting interruptions in compressed air flow into pulses. In the majority of cases, an oil bowl is fitted on each lubricator.

Every **DOSOL** SPL unit can be finely tuned to inject from 1 to 1/10 of a drop of oil in 40 steps (30 to 3 mm<sup>3</sup>). Every **DOSOL** SPL unit includes as standard a counter with a switch that allows the lubricator to operate every first, fifth or tenth tool cycle.

The adjusting knob features a positive stop at both maximum and minimum settings, which means that a zero setting is not possible.

The preset quantity of oil is supplied to the tool through a small-bore nylon tube inside the air hose. 7.5 m of oil-filled nylon tubing is included as standard.

## Multiple-point lubricator DOSOL

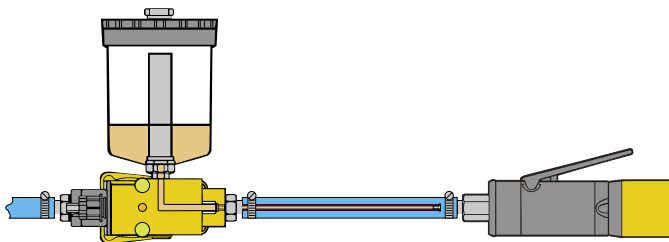
For supplying lubricant to an unlimited number of lubrication points on a machine or in a pneumatic system.

The **DOSOL** multiple-point lubricator (MPL) consists of a number of JECT 01 oil metering pumps assembled into a "package" with a common BASE baseplate. A stack may contain up to ten JECT 01 units. Several such assemblies may be used together.



- All oil pumps are supplied with oil via the BASE from an oil container or central oil reservoir. A line for pneumatic signals from the equipment to be lubricated is also connected to the BASE.
- The lubricant is conveyed through small-bore nylon tubing which should be ended with check valves.
- With the TEN counter the lubricator can be actuated every first, fifth or tenth tool cycle.

Every **DOSOL** MPL unit can be finely tuned to inject from 1 to 1/10 drop of oil in 40 steps (30 to 3 mm<sup>3</sup>). This helps to minimize the oil dose. The adjusting knob features a positive stop at both maximum and minimum settings, which means that zero setting is not possible.



## Single-point lubricator, DOS

Model	Connection thread BSP in	Air flow l/s		Working pressure bar		Temperature range °C		Ordering No.
		min	max <sup>a</sup>	min	max	min	max	
DOS 15B-C <sup>b</sup>	1/2	2.3	45	3.2	10	-30°	+60°	8202 4201 73
DOS 15B-CR <sup>c</sup>	1/2	2.3	45	3.2	10	-30°	+60°	8202 4202 72
DOS 20B-C <sup>b</sup>	3/4	2.3	53	3.2	10	-30°	+60°	8202 4201 81
DOS 20B-CR <sup>c</sup>	3/4	2.3	53	3.2	10	-30°	+60°	8202 4202 80

<sup>a</sup> At 6 bar and DP = 0.2 bar.

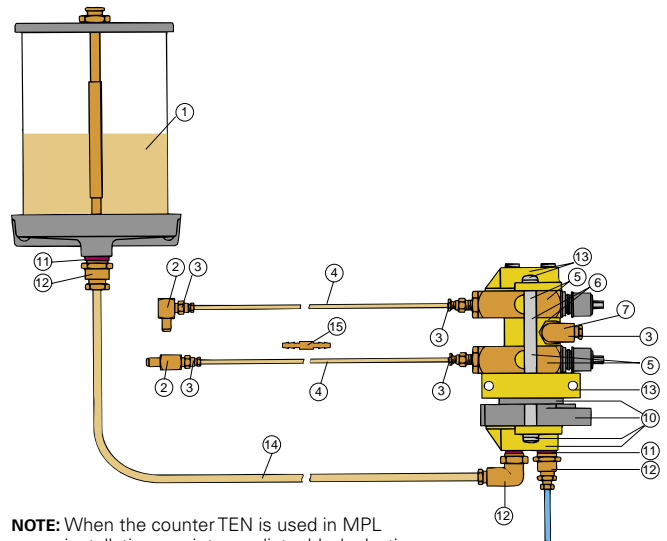
<sup>b</sup> With counter and 7.5 m oil-filled nylon tubing.

<sup>c</sup> With 0.3 l oil container counter and 7.5 m oil-filled nylon tubing.

## Accessories

### FOR SINGLE POINT LUBRICATOR DOSOL

Designation	Ordering No.
Nylon tubing 3.2 mm outside diameter	
7.5 m, oil-filled	9090 1418 00
7.5 m, without oil	9090 1419 00
100 m, with oil	9090 1420 00
Barbed nipple for joining of 3.2 mm tubes	9090 1423 00
Check valve for outer end of nylon tubing, dia ext. 3.2 mm	9090 2050 00



**NOTE:** When the counter TEN is used in MPL installations an intermediate, black plastic part is used (supplied with all TEN counters) between BASE and TEN.

### FOR MULTI POINT LUBRICATOR DOSOL

#### Multiple-point lubricator, BASE, JECT 01

Designation	BSP in	Ordering No.
BASE baseplate	Plate	8202 4205 04
	Oil port	1/4
	Air port	1/4
	Clamp	
	Oil port	1/4
	Air port	1/4
JECT 01 oil pump	Oil delivery port	1/8
		8202 4203 10

#### TEN-counter

When lubricating equipment with very low air consumption or very short time in operation it may be difficult to set a sufficiently small dose of oil. In such cases a counter is connected underneath the base plate BASE. The oil pumps will then be actuated only on each, every fifth or every tenth air pulse. The air signal is connected to the clamp underneath the counter.

Ordering No. 8202 4206 03

#### Side-ported air block kit

If all pumps are not to be actuated simultaneously, a signal block is installed between the oil pumps in the stack. The pumps below the signal block will then be actuated via the base plate BASE and those above it from a separate signal via the signal block.


Ordering No. 8202 4206 03

Ref No. in figure	Designation	Ordering No.
1	Oil container 0.3 l for direct mounting 0.95 l for wall mounting (1/4" BSP female) 1.9 l for wall mounting (1/4" BSP female)	9090 1415 00 9090 1416 00 9090 1417 00
2	Check valve 1/8" BSPT 90° elbow male x 1/8" BSP female 1/8" BSPT, straight male x 1/8" BSP female	9090 1427 00 9090 1426 00
3	Male adapter 1/8" BSPT, straight for tube outer diameter 3.2 mm	9090 1425 00
4	Capillary tubing 7.5 m, outer dia. 3.2 mm prefilled with oil 7.5 m, outer dia. 3.2 mm without oil 100 m, outer dia. 3.2 mm with oil	9090 1418 00 9090 1419 00 9090 1420 00
5	JECT 01 kit <sup>a</sup>	8202 4203 10
6	Side-ported air block kit	9090 1424 00
7	Fiber packing for 1/8" BSP	0657 5742 00
10	Counter TEN kit	8202 4206 03
11	Fiber packing for 1/4" BSP	0657 5764 00
12	Male adapter 1/4" BSP, straight for tube outer diameter 8 mm	9090 0715 00
13	BASE kit	8202 4205 04
14	Nylon tube, outer diameter 8 mm (sold by the meter)	9030 0060 00
15	Barbed nipple for joining of nylon tubes outer diameter 3.2 mm	9090 1423 00
16	Nylon tube outer diameter 5 mm (sold by the meter)	9030 0059 00

<sup>a</sup> With high temperature Viton seals 8202 4203 15.

# Connectors and Couplings





Whenever tools or pneumatic equipment need to be changed, or you need to make quick connections of hoses to an air outlet, Atlas Copco couplings are the energy efficient, high productivity choice.

All Atlas Copco couplings are designed to ensure minimum pressure and thus reduce energy consumption. The exceptionally high air flow ensures full power to your tools.

The couplings are light and compact and the bodies are made of hardened steel, which provides long life in the toughest applications.

# Selection guide

## QIC

The QIC coupling is a standard one-hand operation coupling with high air flow performance. It is suitable for screwdrivers, assembly tools, drills and grinders. The coupling is strong and durable and is made of hardened steel.



## QIC S

The QIC S coupling is a safety coupling with a two-step disconnection. It is suitable for applications where it is important that the potential danger of an uncontrolled pressurized air hose is minimized. The safety features are according to EN 983 and ISO 4414. The QIC S safety coupling is easy to handle and suitable for assembly tools and drills. The QIC safety couplings are made of hardened steel.



## Claw

CLAW couplings are made from dropforged, hardened steel which can withstand rough treatment and ensures a long life even under difficult conditions. The coupling head is the same for all hose sizes, which can therefore be freely combined. The recommended maximum working pressure is 10 bar.



## ErgoQIC

The ErgoQIC coupling is a ball valve coupling with a safety feature offering a higher flow than ordinary coupling systems. The ErgoQIC is a strong and durable full flow quick coupling with no air restriction inside the coupling. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC will give the benefits of productivity and energy efficiency. ErgoQIC is designed to minimize the risk of sudden component separation and sound bang. The safety features are according to EN 983 and ISO 4414. It is made of hardened steel.



The ErgoQIC disconnects in two steps; first you push in and bend slowly – the pressurized air hose will then vent, and as a second step you can disconnect without risk of harming the operator.

## MultiFlex Swivel

MultiFlex Swivel is a multi-directional connector. Once the tool is connected the hose will stay in the ideal position however much the operator and the tool move around. The MultiFlex bends and rotates 360° in all directions while the hose stays straight.





Start here:  
 1. Choose your application  
 2. Look for the tick for your application

✓ Recommended by Atlas Copco for your application

ErgoQIC 08US ErgoQIC 08AR	ErgoQIC 08 ErgoQIC 10AC	ErgoQIC 10 ASIA	ErgoQIC 08E	ErgoQIC 10US	ErgoQIC 10	ErgoQIC 15E	ErgoQIC 15US
Air flow capacity 0-11 l/s	Air flow capacity 0-16 l/s	Air flow capacity 0-22 l/s	Air flow capacity 0-24 l/s	Air flow capacity 0-27 l/s	Air flow capacity 0-40 l/s	Air flow capacity 0-49 l/s	Air flow capacity 0-52 l/s

YOUR APPLICATION		Bolt size	Air flow requirements												
				ErgoQIC 08US	ErgoQIC 08AR	ErgoQIC 08	ErgoQIC 10AC	ErgoQIC 10	ASIA	ErgoQIC 08E	ErgoQIC 10US	ErgoQIC 10	ErgoQIC 15E	ErgoQIC 15US	
	Screwdrivers	M2-M6	2-8 l/s	✓	✓	✓	✓								
		Bolt size													
		1/4" HEX and 3/8"	2-9 l/s	✓	✓	✓	✓								
	Impact wrenches	3/8" and 1/2"	10-20 l/s			✓	✓	✓	✓						
		1" and 1 1/2"	28-37 l/s							✓	✓	✓			
		Bolt size													
	Pulse tools	M4-M5	9 l/s	✓	✓	✓	✓								
		M6-M12	15-25 l/s		✓	✓	✓	✓	✓	✓					
		M14-M20	32-49 l/s							✓	✓	✓			
	Drills	Power													
		<820 W	8-21 l/s	✓	✓	✓	✓	✓							
		Size													
	Chipping hammers	<7 kg	6.5-14 l/s	✓	✓	✓	✓	✓							
		Power													
		<500 W	3-10 l/s	✓	✓	✓	✓								
	Die grinders	500-900 W	7-19 l/s			✓	✓	✓	✓						
		0.9-2 kW	20-35 l/s			✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Power													
	Turbine grinders	<2.5 kW	32 l/s							✓	✓	✓	✓	✓	
		Power													
		Size													
	Blow guns	Power													
		4-7.5 l/s		✓	✓	✓	✓								
		Size													

### Interchangeability Guide

Standard Type Market	Global		EU standard		ISO 6150-B (former US)			ARO 210	EU	EU	ASIA
	08	10	7.6 (7.4)	10.4	1/4"	3/8"	1/2"	Benelux, US	Australia		Italy, SA
					Benelux, France, US, Norway, Switzerland			Benelux, US	Australia		Italy, SA
Atlas Copco ErgoQIC	08	10	08E	15E	08US	10US	15US	08AR	10AC		10 ASIA
Atlas Copco QIC			10E	15E	08	10US	15US		10	15	10 ASIA
Atlas Copco QIC Safety			10SE	15SE	08S				10S	15S	
CEJN			320	410	310	430	550	300			315
Oetiker			SC C		SC B1	SC E	SC H	SC A1			SC D
Tema			1600	1700	1400				1650	1750	
Rectus			25/26	27	23/24	30	37	14/22	33	34	13
Prevost			ESC/ERC07		IRC/ISC06	IRC/ISC08	ISG 11	ARM06			ORG
Nitto Kohki											20/30/40
ARO					102	103/203	104/204	210			
Amflo					C20B	C26	C10	C38			
Bosch			7.2								
Parker				55	30 / B23	25F	17	50 / B53			
Foster					3003	4404	5205	210			
Camozzi			508/5180								
Dynaquip					1/4"	3/8"					
EVO			x								
Festo			KD								
Gromelle					600	900		GD16600			
Hansen					22/3000	400/4000	500/5000	20/4 RO			
Ingersoll Rand			7S7		A2/MS/102	A3/103/203	A4/104/204	210/AN6/AS6			
Kaeser			x								
Legris			25/26	27	23/24	30		14/22			13
Tomco					180	4000	5000	100			



Nipple profile



## Atlas Copco Global standard



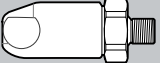
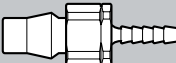



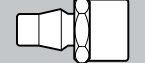
The ErgoQIC 08 is a full flow quick coupling with no air restriction inside. It is suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 08 can improve productivity and energy efficiency.

- Full flow coupling.
- Ergonomic design, small size and low weight.
- Strong and durable.
- Safety feature according to EN 983 / ISO 4414.
- Main market: Global.

## Technical Data

Max flow capacity 29 l/s (0.5 bar  $\Delta P$ )  
 Economical air flow 18 l/s (0.2 bar  $\Delta P$ )  
 Max working pressure 16 bar  
 Temperature range -10°C to +70°C

### ErgoQIC 08 and ErgoNIP 08, 18 l/s (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08	Ordering No.	Size		Connection type	Nipple ErgoNIP 08	Ordering No.	Size	
			mm	in				mm	in
 H – Hose	H06	8202 1110 04	6.3	1/4	 H – Hose	H05	8202 1210 33	5	3/16
	H08	8202 1110 12	8	5/16		H06	8202 1210 37	6.3	1/4
	H10	8202 1110 38	10	3/8		H08	8202 1210 45	8	5/16
	H13	8202 1110 40	12.5	1/2		H10	8202 1210 52	10	3/8
 M – Male	M08	8202 1110 61	1/4 BSP	 SH – Safety Hose <sup>a</sup>	SH06	8202 1210 39	6.3	1/4	
	M10	8202 1110 79	3/8 BSP		SH08	8202 1210 47	8	5/16	
	M15	8202 1110 87	1/2 BSP		SH10	8202 1210 50	10	3/8	
						SH13	8202 1210 55	12.5	1/2
 F – Female	F08	8202 1110 90	1/4 BSP	 M – Male	M06	8202 1210 03	1/8 BSP		
	F10	8202 1110 95	3/8 BSP		M08	8202 1210 11	1/4 BSP		
	F15	8202 1110 96	1/2 BSP		M10	8202 1210 29	3/8 BSP		
					M15	8202 1210 31	1/2 BSP		
 Protective cover		9090 1940 00		 F – Female	F08	8202 1210 60	1/4 BSP		
					F10	8202 1210 62	3/8 BSP		

<sup>a</sup> For joining hoses longer than 3 meters.



Nipple profile



### Atlas Copco Global standard

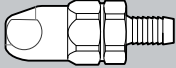

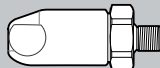
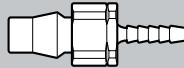

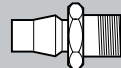

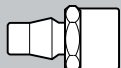
The ErgoQIC 10 is a full flow coupling with no air restriction inside. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 10 can improve productivity and energy efficiency.

- Extreme full flow coupling.
- Strong and durable.
- Minimized connection force.
- Safety feature according to EN 983 / ISO 4414.
- Main market: Global

## Technical Data

Max flow capacity 60 l/s (0.5 bar  $\Delta P$ )  
 Economical air flow 40 l/s (0.2 bar  $\Delta P$ )  
 Max working pressure 16 bar  
 Temperature range -10°C to +70°C

### ErgoQIC 10 and ErgoNIP 10, 40 l/s (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10	Ordering No.	Size		Connection type	Nipple ErgoNIP 10	Ordering No.	Size	
			mm	in				mm	in
 H – Hose	H06	8202 1120 30	6.3	1/4	 H – Hose	H06	8202 1220 35	6.3	1/4
	H08	8202 1120 40	8	5/16		H08	8202 1220 43	8	5/16
	H10	8202 1120 02	10	3/8		H10	8202 1220 50	10	3/8
	H13	8202 1120 10	12.5	1/2		H13	8202 1220 68	12.5	1/2
	H16	8202 1120 50	16	5/8		H16	8202 1220 76	16	5/8
	H20	8202 1120 60	19	3/4		H20	8202 1220 77	19	3/4
 M – Male	M08	8202 1120 85	1/4	BSP	 SH – Safety Hose <sup>a</sup>	SH06	8202 1220 37	6.3	1/4
	M10	8202 1120 93	3/8	BSP		SH08	8202 1220 45	8	5/16
	M15	8202 1120 97	1/2	BSP		SH10	8202 1220 52	10	3/8
	M20	8202 1120 98	3/4	BSP		SH13	8202 1220 70	12.5	1/2
	M25	8202 1120 99	1	BSP		SH16	8202 1220 74	16	5/8
 F – Female	F08	8202 1121 00	1/4	BSP	 M – Male	M08	8202 1220 01	1/4	BSP
	F10	8202 1121 05	3/8	BSP		M10	8202 1220 19	3/8	BSP
	F15	8202 1121 10	1/2	BSP		M15	8202 1220 27	1/2	BSP
 Protective cover		9090 1931 00			 F – Female	F08	8202 1220 84	1/4	BSP
						F10	8202 1220 86	3/8	BSP
						F15	8202 1220 88	1/2	BSP

<sup>a</sup> For joining hoses longer than 3 meters.

## Eurostandard 7.6 (7.4)



*Nipple profile*



### ErgoQIC 08E

The ErgoQIC 08E is a full flow quick coupling. Suitable for assembly tools, drills and small grinders. Upgrading any air system using Eurostandard nipples with ErgoQIC 08E couplings can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### Technical Data

Max flow capacity	38 l/s (0.5 bar $\Delta P$ )
Economical air flow	24 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-10°C to +70°C



### QIC 10E

The QIC 10E coupling is easy to handle and suitable for assembly tools and drills. The QIC 10E is compatible with Eurostandard nipples. QIC 10E has a wide range of connections available.

### Technical Data

Max flow capacity	32 l/s (0.5 bar $\Delta P$ )
Economical air flow	20 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +80°C





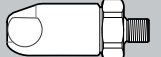
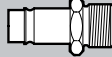
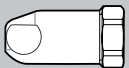
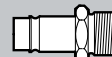


### QIC 10SE

The QIC 10SE safety coupling is easy to handle and suitable for assembly tools and drills. The QIC 10SE is compatible with Eurostandard nipples. QIC 10SE has a wide range of connections available. Safety feature according to EN 983 / ISO 4414.




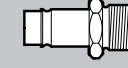

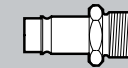
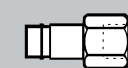
### Technical Data

Max flow capacity	34 l/s (0.5 bar $\Delta P$ )
Economical air flow	22 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +80°C

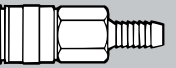
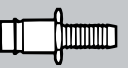

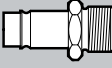
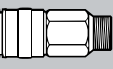
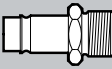
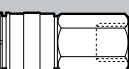
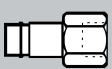
**ErgoQIC 08E and NIP EU 7.6, 24 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08E		Size		Connection type	Nipple NIP EU 7.6		Size	
	Ordering No.		mm	in		Ordering No.		mm	in
H – Hose 	H06 H08 H10 H13	8202 1106 00 8202 1106 01 8202 1106 02 8202 1106 03	6.3 8 10 12.5	1/4 5/16 3/8 1/2	H – Hose 	H05 H06 H08 H10 H13	8202 1204 00 8202 1204 05 8202 1204 10 8202 1204 15 8202 1204 20	5 6.3 8 10 12.5	3/16 1/4 5/16 3/8 1/2
M – Male thread 	M08 M10 M15	8202 1106 04 8202 1106 05 8202 1106 06	1/4 3/8 1/2	BSP BSP BSP	M – Male thread 	M06 M08 M10	8202 1204 25 8202 1204 30 8202 1204 35	1/8 1/4 3/8	BSP BSP BSP
F – Female 	F08 F10 F15	8202 1106 07 8202 1106 08 8202 1106 09	1/4 3/8 1/2	BSP BSP BSP	MT – Male taper thread 	MT08 MT10 MT15	8202 1204 40 8202 1204 45 8202 1204 50	1/4 3/8 1/2	BSPT BSPT BSPT
Protective cover 		9090 1940 01			F – Female 	F08 F10	8202 1204 55 8202 1204 60	1/4 3/8	BSP BSP

**QIC 10E and NIP EU 7.6, 20 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10E		Size		Connection type	Nipple NIP EU 7.6		Size	
	Ordering No.		mm	in		Ordering No.		mm	in
H – Hose 	H06 H08 H10 H13	8202 1303 80 8202 1303 81 8202 1303 82 8202 1303 83	6.3 8 10 13	1/4 5/16 3/8 1/2	H – Hose 	H05 H06 H08 H10 H13	8202 1204 00 8202 1204 05 8202 1204 10 8202 1204 15 8202 1204 20	5 6.3 8 10 12.5	3/16 1/4 5/16 3/8 1/2
MT – Male taper thread 	MT08 MT10 MT15	8202 1303 84 8202 1303 85 8202 1303 86	1/4 3/8 1/2	BSPT BSPT BSPT	M – Male thread 	M06 M08 M10	8202 1204 25 8202 1204 30 8202 1204 35	1/8 1/4 3/8	BSP BSP BSP
F – Female 	F08 F10	8202 1303 87 8202 1303 88	1/4 3/8	BSP BSP	MT – Male taper thread 	MT08 MT10 MT15	8202 1204 40 8202 1204 45 8202 1204 50	1/4 3/8 1/2	BSPT BSPT BSPT
					F – Female 	F08 F10	8202 1204 55 8202 1204 60	1/4 3/8	BSP BSP

**QIC 10SE and NIP EU 7.6, 22 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10SE		Size		Connection type	Nipple NIP EU 7.6		Size	
	Ordering No.		mm	in		Ordering No.		mm	in
H – Hose 	H06 H08 H10 H13	8202 1303 60 8202 1303 61 8202 1303 62 8202 1303 63	6.3 8 10 12.5	1/4 5/16 3/8 1/2	H – Hose 	H05 H06 H08 H10 H13	8202 1204 00 8202 1204 05 8202 1204 10 8202 1204 15 8202 1204 20	5 6.3 8 10 12.5	3/16 1/4 5/16 3/8 1/2
M – Male thread 	M08 M10 M15	8202 1303 64 8202 1303 65 8202 1303 66	1/4 3/8 1/2	BSP BSP BSP	M – Male thread 	M06 M08 M10	8202 1204 25 8202 1204 30 8202 1204 35	1/8 1/4 3/8	BSP BSP BSP
MT – Male taper thread 	MT15	8202 1303 67	1/2	BSPT	MT – Male taper thread 	MT08 MT10 MT15	8202 1204 40 8202 1204 45 8202 1204 50	1/4 3/8 1/2	BSPT BSPT BSPT
F – Female 	F08 F10 F15	8202 1303 68 8202 1303 69 8202 1303 70	1/4 3/8 1/2	BSP BSP BSP	F – Female 	F08 F10	8202 1204 55 8202 1204 60	1/4 3/8	BSP BSP

## Eurostandard 10.4



*Nipple profile*



### Ergo QIC 15E

The ErgoQIC 15E is a full flow coupling suitable for large air consuming assembly tools, drills and grinders. Upgrading any air system using Eurostandard nipples with ErgoQIC 15E can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### Technical Data

Max flow capacity	76 l/s (0.5 bar $\Delta$ P)
Economical air flow	49 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C



### QIC 15E

The QIC 15E quick coupling is suitable for assembly tools, grinders and drills. The QIC 15E has a wide range of connections available and it is interchangeable with Eurostandard nipples.

### Technical Data

Max flow capacity	62 l/s (0.5 bar $\Delta$ P)
Economical air flow	40 l/s (0.2 bar $\Delta$ P)
Max working pressure	10 bar
Temperature range	-20°C to +80°C



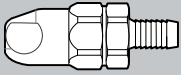

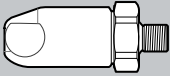
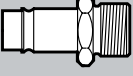
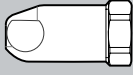
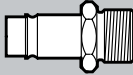
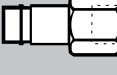
### QIC 15SE

The QIC 15SE safety coupling is suitable for assembly tools, grinders and drills. The QIC 15SE is interchangeable with Eurostandard nipples and can withstand rough handling. Safety feature according to EN 983 / ISO 4414.

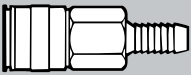

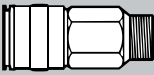
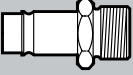
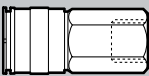
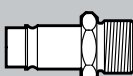
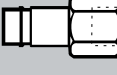
### Technical Data

Max flow capacity	63 l/s (0.5 bar $\Delta$ P)
Economical air flow	41 l/s (0.2 bar $\Delta$ P)
Max working pressure	10 bar
Temperature range	-20°C to +80°C

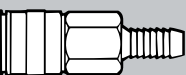


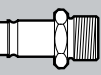
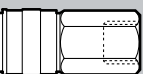
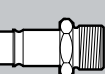
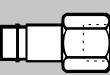
**ErgoQIC 15E and NIP EU 10.4, 49 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 15E	Ordering No.	Size		Connection type	Nipple NIP EU 10.4	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H10	8202 1106 50	10	3/8	H – Hose 	H06	8202 1253 00	6.3	1/4
	H13	8202 1106 51	12.5	1/2		H08	8202 1253 05	8	5/16
	H16	8202 1106 52	16	5/8		H10	8202 1253 10	10	3/8
	H20	8202 1106 53	19	3/4		H13	8202 1253 15	12.5	1/2
M – Male 	M10	8202 1106 60	3/8 BSP		M – Male 	M10	8202 1253 25	3/8 BSP	
	M15	8202 1106 61	1/2 BSP			M15	8202 1253 30	1/2 BSP	
	M20	8202 1106 62	3/4 BSP			M20	8202 1253 34	3/4 BSP	
	M25	8202 1106 63	1 BSP						
F – Female 	F10	8202 1106 70	3/8 BSP		MT – Male taper thread 	MT08	8202 1253 35	1/4 BSPT	
	F15	8202 1106 71	1/2 BSP			MT10	8202 1253 40	3/8 BSPT	
					F – Female 	F08	8202 1253 50	1/4 BSP	
						F10	8202 1253 55	3/8 BSP	
						F15	8202 1253 60	1/2 BSP	
						F20	8202 1253 63	3/4 BSP	

**QIC 15E and NIP EU 10.4, 40 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 15E	Ordering No.	Size		Connection type	Nipple NIP EU 10.4	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H10	8202 1304 81	10	3/8	H – Hose 	H06	8202 1253 00	6.3	1/4
	H13	8202 1304 82	12.5	1/2		H08	8202 1253 05	8	5/16
	H16	8202 1304 90	16	5/8		H10	8202 1253 10	10	3/8
	H20	8202 1304 83	19	3/4		H13	8202 1253 15	12.5	1/2
MT – Male taper thread 	MT10	8202 1304 84	3/8 BSPT		M – Male 	M10	8202 1253 25	3/8 BSP	
	MT15	8202 1304 85	1/2 BSPT			M15	8202 1253 30	1/2 BSP	
	MT20	8202 1304 86	3/4 BSPT			M20	8202 1253 34	3/4 BSP	
F – Female 	F10	8202 1304 87	3/8 BSP		MT – Male taper thread 	MT08	8202 1253 35	1/4 BSPT	
	F15	8202 1304 88	1/2 BSP			MT10	8202 1253 40	3/8 BSPT	
	F20	8202 1304 89	3/4 BSP			MT15	8202 1253 45	1/2 BSPT	
					F – Female 	F08	8202 1253 50	1/4 BSP	
						F10	8202 1253 55	3/8 BSP	
						F15	8202 1253 60	1/2 BSP	
						F20	8202 1253 63	3/4 BSP	

**QIC 15SE and NIP EU 10.4, 41 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 15SE	Ordering No.	Size		Connection type	Nipple NIP EU 10.4	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H10	8202 1305 30	10	3/8	H – Hose 	H06	8202 1253 00	6.3	1/4
	H13	8202 1305 31	12.5	1/2		H08	8202 1253 05	8	5/16
	H16	8202 1305 32	16	5/8		H10	8202 1253 10	10	3/8
M – Male thread 	M08	8202 1305 33	1/4 BSP		M – Male thread 	M10	8202 1253 25	3/8 BSP	
	M10	8202 1305 34	3/8 BSP			M15	8202 1253 30	1/2 BSP	
	M15	8202 1305 35	1/2 BSP			M20	8202 1253 34	3/4 BSP	
F – Female thread 	F15	8202 1305 36	1/2 BSP		MT – Male taper thread 	MT08	8202 1253 35	1/4 BSPT	
						MT10	8202 1253 40	3/8 BSPT	
						MT15	8202 1253 45	1/2 BSPT	
					F – Female thread 	F08	8202 1253 50	1/4 BSP	
						F10	8202 1253 55	3/8 BSP	
						F15	8202 1253 60	1/2 BSP	
						F20	8202 1253 63	3/4 BSP	

## ISO 6150-B / US standard



*Nipple profile*



### ErgoQIC 08US

The ErgoQIC 08US is a full flow quick coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 08US can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### Technical Data

Max flow capacity	17 l/s (0.5 bar $\Delta$ P)
Economical air flow	11 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to 80°C



### QIC 08

The QIC 08 coupling is suitable for small screwdrivers and drills. Its lightweight, compact design makes the QIC 08 coupling easy to work with.

### Technical Data

Max flow capacity	12 l/s (0.5 bar $\Delta$ P)
Economical air flow	8 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C



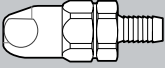


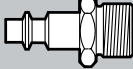
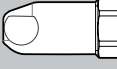
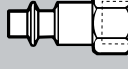
### QIC 08S

The QIC 08S is a compact safety coupling suitable for small screwdrivers and drills. The light, compact design of QIC 08S couplings makes them easy to work with. Safety feature according to EN 983 / ISO 4414.


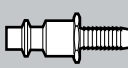

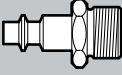

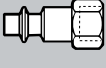
### Technical Data

Max flow capacity	12 l/s (0.5 bar $\Delta$ P)
Economical air flow	8 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C

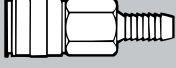


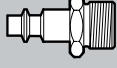

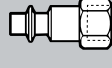
**ErgoQIC 08US and NIP 08, 11 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08US	Ordering No.	Size		Connection type	Nipple NIP 08	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1103 00	6.3	1/4	H – Hose 	H06	8202 1205 18	6.3	1/4
	H08	8202 1103 01	8	5/16		H08	8202 1205 26	8	5/16
	H10	8202 1103 02	10	3/8		H10	8202 1205 34	10	3/8
	H13	8202 1103 03	12.5	1/2		H13	8202 1208 03	12.5	1/2
M – Male 	M08	8202 1103 05	1/4 BSP		M – Male 	M06	8202 1205 42	1/8 BSP	
	M10	8202 1103 07	3/8 BSP			M08	8202 1205 59	1/4 BSP	
	M15	8202 1103 09	1/2 BSP			M10	8202 1205 67	3/8 BSP	
F – Female 	F08	8202 1103 11	1/4 BSP		F – Female 	F06	8202 1208 10	1/8 BSP	
	F10	8202 1103 13	3/8 BSP			F08	8202 1205 83	1/4 BSP	
						F10	8202 1205 91	3/8 BSP	

**QIC 08 and NIP 08, 8 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 08	Ordering No.	Size		Connection type	Nipple NIP 08	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1300 04	6.3	1/4	H – Hose 	H06	8202 1205 18	6.3	1/4
	H08	8202 1300 12	8	5/16		H08	8202 1205 26	8	5/16
	H10	8202 1300 20	10	3/8		H10	8202 1205 34	10	3/8
M – Male thread 	M08	8202 1300 38	1/4 BSP		M – Male thread 	M06	8202 1205 42	1/8 BSP	
	M10	8202 1300 46	3/8 BSP			M08	8202 1205 59	1/4 BSP	
F – Female thread 	F08	8202 1300 53	1/4 BSP		F – Female thread 	F08	8202 1205 83	1/4 BSP	
	F10	8202 1300 61	3/8 BSP			F10	8202 1205 91	3/8 BSP	

**QIC 08S and NIP 08, 8 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 08S	Ordering No.	Size		Connection type	Nipple NIP 08	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1300 09	6.3	1/4	H – Hose 	H06	8202 1205 18	6.3	1/4
	H08	8202 1300 18	8	5/16		H08	8202 1205 26	8	5/16
	H10	8202 1300 28	10	3/8		H10	8202 1205 34	10	3/8
M – Male thread 	M08	8202 1300 43	1/4 BSP		M – Male thread 	M06	8202 1205 42	1/8 BSP	
	M10	8202 1300 45	3/8 BSP			M08	8202 1205 59	1/4 BSP	
F – Female thread 	F08	8202 1300 58	1/4 BSP		F – Female thread 	F08	8202 1205 83	1/4 BSP	
	F10	8202 1300 68	3/8 BSP			F10	8202 1205 91	3/8 BSP	

## ISO 6150-B / US standard



*Nipple profile*



### ErgoQIC 10US

The ErgoQIC 10US is a full flow quick coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 10US couplings can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### QIC 10US

The QIC 10US quick coupling is suitable for assembly tools, drills and small grinders. The QIC 10US has a wide range of connections available and it is interchangeable with US 3/8" standard nipples.

## Technical Data

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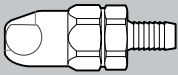

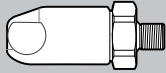
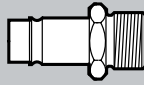
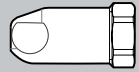
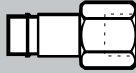
Max flow capacity	43 l/s (0.5 bar $\Delta P$ )
Economical air flow	27 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to 80°C

## Technical Data

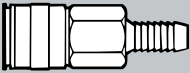


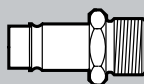

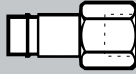
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Max flow capacity	19 l/s (0.5 bar $\Delta P$ )
Economical air flow	12 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to 80°C

**ErgoQIC 10US and NIP 10US, 27 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10US	Ordering No.	Size		Connection type	Nipple NIP 10US	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H08	8202 1107 01	8	5/16	H – Hose 	H08	8202 1210 70	8	5/16
	H10	8202 1107 02	10	3/8		H10	8202 1210 71	10	3/8
	H13	8202 1107 03	12.5	1/2		H13	8202 1210 72	12.5	1/2
	H16	8202 1107 04	16	5/8		H16	8202 1210 73	16	5/8
	H20	8202 1107 05	19	3/4		H20	8202 1210 74	19	3/4
M – Male 	M08	8202 1107 07	1/4 BSP		M – Male 	M08	8202 1210 75	1/4 BSP	
	M10	8202 1107 09	3/8 BSP			M10	8202 1210 76	3/8 BSP	
	M15	8202 1107 11	1/2 BSP			M15	8202 1210 77	1/2 BSP	
F – Female 	F08	8202 1107 13	1/4 BSP		F – Female 	F08	8202 1210 81	1/4 BSP	
	F10	8202 1107 15	3/8 BSP			F10	8202 1210 82	3/8 BSP	
	F15	8202 1107 17	1/2 BSP			F15	8202 1210 83	1/2 BSP	

**QIC 10US and NIP 10US, 12 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10US	Ordering No.	Size		Connection type	Nipple NIP 10US	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H08	8202 1307 01	8	5/16	H – Hose 	H08	8202 1210 70	8	5/16
	H10	8202 1307 02	10	3/8		H10	8202 1210 71	10	3/8
	H13	8202 1307 03	12.5	1/2		H13	8202 1210 72	12.5	1/2
							H16	8202 1210 73	16
M – Male 	M08	8202 1307 10	1/4 BSP		M – Male 	M08	8202 1210 75	1/4 BSP	
	M10	8202 1307 11	3/8 BSP			M10	8202 1210 76	3/8 BSP	
	M15	8202 1307 12	1/2 BSP			M15	8202 1210 77	1/2 BSP	
F – Female 	F08	8202 1307 13	1/4 BSP		F – Female 	F08	8202 1210 81	1/4 BSP	
	F10	8202 1307 14	3/8 BSP			F10	8202 1210 82	3/8 BSP	
	F15	8202 1307 15	1/2 BSP			F15	8202 1210 83	1/2 BSP	

## ISO 6150-B / US standard



*Nipple profile*



### ErgoQIC 15US

The ErgoQIC 15US is a full flow coupling suitable for large air consuming assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 15US can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### QIC 15US

The QIC 15US quick coupling is suitable for assembly tools, drills and grinders. The QIC 15US has a wide range of connections available and it is interchangeable with US 1/2" standard nipples.

## Technical Data

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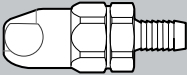


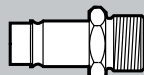
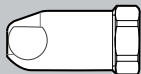
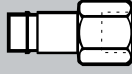
Max flow capacity	77 l/s (0.5 bar $\Delta P$ )
Economical air flow	52 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +80°C

## Technical Data




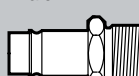

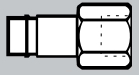
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Max flow capacity	40 l/s (0.5 bar $\Delta P$ )
Economical air flow	22 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C

**ErgoQIC 15US and NIP 15US, 52 l/s (recommended air flow at 6.3 bar pressure)**

Connection type	Coupling ErgoQIC 15US	Ordering No.	Size		Connection type	Nipple NIP 15US	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H10	8202 1108 02	10	3/8	H – Hose 	H10	8202 1215 40	10	3/8
	H13	8202 1108 03	12.5	1/2		H13	8202 1215 41	12.5	1/2
	H16	8202 1108 04	16	5/8		H16	8202 1215 42	16	5/8
	H20	8202 1108 05	19	3/4		H20	8202 1215 43	19	3/4
M – Male 	M10	8202 1108 09	3/8 BSP		M – Male 	M08	8202 1215 44	1/4 BSP	
	M15	8202 1108 11	1/2 BSP			M10	8202 1215 45	3/8 BSP	
	M20	8202 1108 18	3/4 BSP			M15	8202 1215 46	1/2 BSP	
	M25	8202 1108 20	1 BSP			M20	8202 1215 47	3/4 BSP	
F – Female 	F10	8202 1108 15	3/8 BSP		F – Female 	F10	8202 1215 52	3/8 BSP	
	F15	8202 1108 17	1/2 BSP			F15	8202 1215 53	1/2 BSP	

**QIC 15US and NIP 15US, 22 l/s (recommended air flow at 6.3 bar pressure)**

Connection type	Coupling QIC 15US	Ordering No.	Size		Connection type	Nipple NIP 15US	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H13	8202 1308 02	12.5	1/2	H – Hose 	H10	8202 1215 40	10	3/8
	H16	8202 1308 20	16	5/8		H13	8202 1215 41	12.5	1/2
	H20	8202 1308 03	19	3/4		H16	8202 1215 42	16	5/8
M – Male 	M10	8202 1308 10	3/8 BSP		M – Male 	M08	8202 1215 44	1/4 BSP	
	M15	8202 1308 11	1/2 BSP			M10	8202 1215 45	3/8 BSP	
	M20	8202 1308 12	3/4 BSP			M15	8202 1215 46	1/2 BSP	
F – Female 	F10	8202 1308 13	3/8 BSP		F – Female 	F10	8202 1215 52	3/8 BSP	
	F15	8202 1308 14	1/2 BSP			F15	8202 1215 53	1/2 BSP	
	F20	8202 1308 15	3/4 BSP						

## Atlas Copco standard EU NIP 10



*Nipple profile*



### ErgoQIC 10AC

The ErgoQIC 10AC is a full flow quick coupling suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 10AC can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### Technical Data

Max flow capacity	26 l/s (0.5 bar $\Delta$ P)
Economical air flow	17 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-10°C to +70°C



### QIC 10

The QIC 10 is a small quick coupling suitable for assembly tools and drills. The QIC 10 can withstand extremely rough handling in tough applications.

### Technical Data

Max flow capacity	24 l/s (0.5 bar $\Delta$ P)
Economical air flow	15 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C



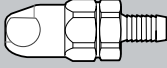

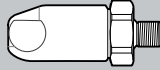
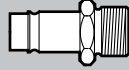

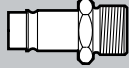
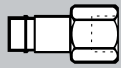
### QIC 10S

QIC 10S safety coupling is suitable for assembly tools and drills. The QIC 10S is strong and durable and interchangeable with the QIC 10 coupling. Safety feature according to EN 983 / ISO 4414.

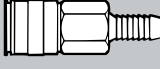


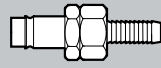

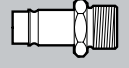

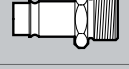

### Technical Data

Max flow capacity	23 l/s (0.5 bar $\Delta$ P)
Economical air flow	14 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C

**ErgoQIC 10AC and NIP 10, 17 l/s** (recommended air flow at 6.3 bar pressure)








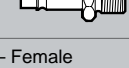

Connection type	Coupling ErgoQIC 10AC	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H08	8202 1109 01	8	5/16	H – Hose 	H06	8202 1202 11	6.3	3/8
	H10	8202 1109 02	10	3/8		H08	8202 1202 94	8	1/2
	H13	8202 1109 03	12.5	1/2		H10	8202 1202 29	10	5/8
						H13	8202 1202 34	12.5	3/4
M – Male thread 	M08	8202 1109 05	1/4	BSP	M – Male thread 	M06	8202 1202 37	1/8	BSP
	M10	8202 1109 06	3/8	BSP		M08	8202 1202 45	1/4	BSP
	M15	8202 1109 07	1/2	BSP		M10	8202 1202 52	3/8	BSP
F – Female 	F08	8202 1109 09	1/4	BSP	MT – Male taper thread 	MT08	8202 1202 60	1/4	BSPT
	F10	8202 1109 10	3/8	BSP		MT10	8202 1202 78	3/8	BSPT
	F15	8202 1109 11	1/2	BSP		MT15	8202 1203 02	1/2	BSPT
					F – Female 	F08	8202 1202 86	1/4	BSP
						F10	8202 1202 87	3/8	BSP

**QIC 10 and NIP 10, 15 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1302 02	6.3	1/4	H – Hose 	H06	8202 1202 11	6.3	1/4
	H08	8202 1302 10	8	5/16		H08	8202 1202 94	8	5/16
	H10	8202 1302 28	10	3/8		H10	8202 1202 29	10	3/8
	H13	8202 1302 34	12.5	1/2		H13	8202 1202 34	12.5	1/2
M – Male thread 	M08	8202 1302 36	1/4	BSP	SH – Safety Hose <sup>a</sup> 	SH06	8202 1203 10	6.3	1/4
	M10	8202 1302 44	3/8	BSP		SH08	8202 1203 36	8	5/16
						SH10	8202 1203 28	10	3/8
MT – Male taper thread 	MT15	8202 1302 51	1/2	BSPT	M – Male thread 	M06	8202 1202 37	1/8	BSP
						M08	8202 1202 45	1/4	BSP
						M10	8202 1202 52	3/8	BSP
F – Female 	F08	8202 1302 69	1/4	BSP	MT – Male taper thread 	MT08	8202 1202 60	1/4	BSPT
						MT10	8202 1202 78	3/8	BSPT
							MT15	8202 1203 02	1/2
					F – Female 	F08	8202 1202 86	1/4	BSP
						F10	8202 1202 87	3/8	BSP

<sup>a</sup>For hoses longer than 3 meters.

**QIC 10S and NIP 10, 14 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10S	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1302 08	6.3	1/4	H – Hose 	H06	8202 1202 11	6.3	1/4
	H08	8202 1302 18	8	5/16		H08	8202 1202 94	8	5/16
	H10	8202 1302 33	10	3/8		H10	8202 1202 29	10	3/8
	H13	8202 1302 39	12.5	1/2		H13	8202 1202 34	12.5	1/2
M – Male thread 	M08	8202 1302 43	1/4	BSP	SH – Safety hose <sup>a</sup> 	SH06	8202 1203 10	6.3	1/4
	M10	8202 1302 54	3/8	BSP		SH08	8202 1203 36	8	5/16
	M15	8202 1302 81	1/2	BSP		SH10	8202 1203 28	10	3/8
MT – Male taper thread 	MT15	8202 1302 58	1/2	BSPT	M – Male thread 	M06	8202 1202 37	1/8	BSP
						M08	8202 1202 45	1/4	BSP
						M10	8202 1202 52	3/8	BSP
F – Female 	F08	8202 1302 73	1/4	BSP	MT – Male taper thread 	MT08	8202 1202 60	1/4	BSPT
	F10	8202 1302 74	3/8	BSP		MT10	8202 1202 78	3/8	BSPT
							MT15	8202 1203 02	1/2
					F – Female 	F08	8202 1202 86	1/4	BSP
						F10	8202 1202 87	3/8	BSP

<sup>a</sup>For hoses longer than 3 meters.

## Atlas Copco standard EU NIP 15



*Nipple profile*



### QIC 15

The QIC 15 quick coupling is suitable for assembly tools, grinders and drills. The QIC 15 can withstand extremely rough handling in tough applications.

### Technical Data

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Max flow capacity	48 l/s (0.5 bar $\Delta P$ )
Economical air flow	30 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C



### QIC 15S

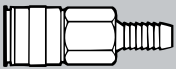


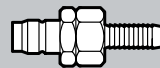




The QIC 15S safety coupling is suitable for assembly tools, grinders and drills. The QIC 15S is easy to handle, durable and interchangeable with the QIC 15 coupling. Safety feature according to EN 983 / ISO 4414.

### Technical Data

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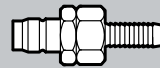



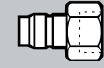
Max flow capacity	52 l/s (0.5 bar $\Delta P$ )
Economical air flow	33 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C

**QIC 15 and NIP 15, 30 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 15	Ordering No.	Size		Connection type	Nipple NIP 15	Ordering No.	Size				
			mm	in				mm	in			
H – Hose 	H10	8202 1304 00	10	3/8	H – Hose 	H06	8202 1251 03	6.3	1/4			
	H13	8202 1304 18	12.5	1/2		H08	8202 1252 28	8	5/16			
	H16	8202 1304 26	16	5/8		H10	8202 1251 11	10	3/8			
M – Male thread 	M08	8202 1304 34	1/4 BSP	SH – Safety Hose <sup>a</sup> 		H13	8202 1251 29	12.5	1/2			
	M10	8202 1304 42	3/8 BSP			H16	8202 1251 37	16	5/8			
	M15	8202 1304 59	1/2 BSP			M – Male thread 	M10	8202 1251 45	3/8 BSP	MT – Male taper thread 		
F – Female thread 	F15	8202 1304 67	1/2 BSP		M15		8202 1251 52	1/2 BSP	MT08		8202 1251 60	1/4 BSPT
	F – Female thread 	F15 8202 1304 67 1/2 BSP	1/2 BSP		MT10		8202 1251 78	3/8 BSPT				
					MT15	8202 1251 86	1/2 BSPT					
F08				8202 1251 94	1/4 BSP							
				F10	8202 1252 02	3/8 BSP						
				F15	8202 1252 10	1/2 BSP						

<sup>a</sup> For hoses longer than 3 meters.

**QIC 15S and NIP 15, 33 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 15S	Ordering No.	Size		Connection type	Nipple NIP 15	Ordering No.	Size				
			mm	in				mm	in			
H – Hose 	H10	8202 1304 08	10	3/8	H – Hose 	H06	8202 1251 03	6.3	1/4			
	H13	8202 1304 23	12.5	1/2		H08	8202 1252 28	8	5/16			
	H16	8202 1304 33	16	5/8		H10	8202 1251 11	10	3/8			
M – Male thread 	M08	8202 1304 38	1/4 BSP	SH – Safety Hose <sup>a</sup> 		H13	8202 1251 29	12.5	1/2			
	M10	8202 1304 48	3/8 BSP			H16	8202 1251 37	16	5/8			
	M15	8202 1304 73	1/2 BSP			M – Male thread 	M10	8202 1251 45	3/8 BSP	MT – Male taper thread 		
F – Female thread 	F15	8202 1304 74	1/2 BSP		M15		8202 1251 52	1/2 BSP	MT08		8202 1251 60	1/4 BSPT
	F – Female thread 	F15 8202 1304 74 1/2 BSP	1/2 BSP		MT10		8202 1251 78	3/8 BSPT				
					MT15	8202 1251 86	1/2 BSPT					
F08				8202 1251 94	1/4 BSP							
				F10	8202 1252 02	3/8 BSP						
				F15	8202 1252 10	1/2 BSP						

<sup>a</sup> For hoses longer than 3 meters.

## Asia standard



*Nipple profile*



### ErgoQIC 10 ASIA

The ErgoQIC 10 ASIA is a full flow coupling suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 10 ASIA can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

### Technical Data

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Max flow capacity	35 l/s (0.5 bar $\Delta P$ )
Economical air flow	22 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-10°C to +70°C



### QIC 10 ASIA

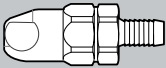

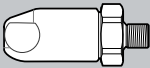
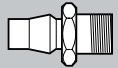
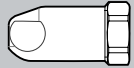
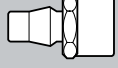
The QIC 10 ASIA quick coupling is suitable for assembly tools, drills and small grinders. The QIC 10 ASIA has a wide range of connections available and it is interchangeable with asia standard nipples.

### Technical Data

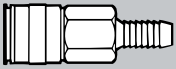


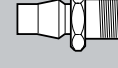

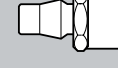
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Max flow capacity	20 l/s (0.5 bar $\Delta P$ )
Economical air flow	13 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C

**ErgoQIC 10 ASIA and NIP 10 ASIA, 22 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 10 ASIA	Ordering No.	Size		Connection type	Nipple NIP 10 ASIA	Ordering No.	Size	
			mm	in				mm	in
 H – Hose	H06	8202 1104 00	6.3	1/4	 H – Hose	H06	8202 1202 15	6.3	1/4
	H08	8202 1104 01	8	5/16		H08	8202 1202 16	8	5/16
	H10	8202 1104 02	10	3/8		H10	8202 1202 17	10	3/8
	H13	8202 1104 03	12.5	1/2		H13	8202 1202 18	12.5	1/2
 MT – Male taper thread	MT08	8202 1104 05	1/4 BSPT		 MT – Male taper thread	MT06	8202 1202 19	1/8 BSPT	
	MT10	8202 1104 06	3/8 BSPT			MT08	8202 1202 20	1/4 BSPT	
	MT15	8202 1104 07	1/2 BSPT			MT10	8202 1202 21	3/8 BSPT	
 FT – Female taper thread	FT08	8202 1104 09	1/4 BSPT		 FT – Female taper thread	FT08	8202 1202 23	1/4 BSPT	
	FT10	8202 1104 10	3/8 BSPT			FT10	8202 1202 24	3/8 BSPT	
	FT15	8202 1104 11	1/2 BSPT			FT15	8202 1202 25	1/2 BSPT	

**QIC 10 ASIA and NIP 10 ASIA, 13 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling QIC 10 ASIA	Ordering No.	Size		Connection type	Nipple NIP 10 ASIA	Ordering No.	Size	
			mm	in				mm	in
 H – Hose	H06	8202 1302 85	6.3	1/4	 H – Hose	H06	8202 1202 15	6.3	1/4
	H08	8202 1302 86	8	5/16		H08	8202 1202 16	8	5/16
	H10	8202 1302 87	10	3/8		H10	8202 1202 17	10	3/8
	H13	8202 1302 88	12.5	1/2		H13	8202 1202 18	12.5	1/2
 MT – Male taper thread	MT08	8202 1302 89	1/4 BSPT		 MT – Male taper thread	MT06	8202 1202 19	1/8 BSPT	
	MT10	8202 1302 90	3/8 BSPT			MT08	8202 1202 20	1/4 BSPT	
	MT15	8202 1302 91	1/2 BSPT			MT10	8202 1202 21	3/8 BSPT	
 FT – Female taper thread	FT08	8202 1302 92	1/4 BSPT		 FT – Female taper thread	FT08	8202 1202 23	1/4 BSPT	
	FT10	8202 1302 93	3/8 BSPT			FT10	8202 1202 24	3/8 BSPT	
	FT15	8202 1302 94	1/2 BSPT			FT15	8202 1202 25	1/2 BSPT	

# Quick couplings



Nipple profile






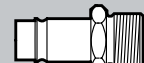
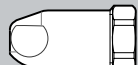
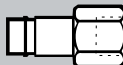
## ARO standard

The ErgoQIC 08AR is a full flow quick coupling suitable for assembly tools and small drills. Upgrading any air system with ErgoQIC 08AR can improve productivity and energy efficiency. Safety feature according to EN 983 / ISO 4414.

## Technical Data

Max flow capacity 19 l/s (0.5 bar  $\Delta P$ )  
 Economical air flow 12 l/s (0.2 bar  $\Delta P$ )  
 Max working pressure 16 bar  
 Temperature range -10°C to +70°C

### ErgoQIC 08AR and NIP 08AR, 12 l/s (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 08AR	Ordering No.	Size		Connection type	Nipple NIP 08AR	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H06	8202 1106 40	6.3	1/4	H – Hose 	H06	8202 1206 00	6.3	3/8
	H08	8202 1106 41	8	5/16		H08	8202 1206 01	8	1/2
	H10	8202 1106 42	10	3/8		H10	8202 1206 02	10	5/8
	H13	8202 1106 43	12.5	1/2		H13	8202 1206 03	12.5	3/4
M – Male 	M08	8202 1106 44	1/4 BSP		MT – Male taper thread 	MT08	8202 1206 04	1/4 BSPT	
	M10	8202 1106 45	3/8 BSP			MT10	8202 1206 05	3/8 BSPT	
	M15	8202 1106 46	1/2 BSP			MT15	8202 1206 06	1/2 BSPT	
F – Female 	F08	8202 1106 47	1/4 BSP		F – Female 	F08	8202 1206 07	1/4 BSP	
	F10	8202 1106 48	3/8 BSP			F10	8202 1206 08	3/8 BSP	
						F15	8202 1206 09	1/2 BSP	

# Claw

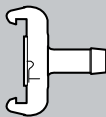
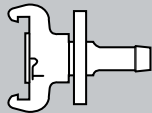
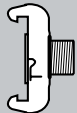
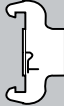



couplings



CLAW couplings are made from zinc-plated, dropforged, hardened steel, ensuring long life even under difficult conditions. The coupling head is the same for all hose sizes and can therefore be freely combined. The recommended maximum working pressure is 10 bar.

## Technical Data

Economical air flow 280 l/s (0.2 bar  $\Delta P$ )  
 Max working pressure 16 bar  
 Temperature range -10°C to +80°C

Connection type	Coupling CLAW	Ordering No.	Size		Bore B, mm	
			mm	in		
H – Hose		H06	9000 0308 00	6.3	1/4	5.0
		H10	9000 0309 00	10	3/8	8.0
		H13	9000 0310 00	12.5	1/2	10.5
		H16	9000 0311 00	16	5/8	13.5
		H20	9000 0312 00	19	3/4	17.0
		H25	9000 0313 00	25	1	22.0
LNH – Lock nut, Hose		LNH10	9000 0260 00	10	3/8	8.0
		LNH13	9000 0261 00	12.5	1/2	10.5
		LNH16	9000 0262 00	16	5/8	13.5
		LNH20	9000 0263 00	19	3/4	17.2
		LNH25	9000 0264 00	25	1	22.0
M – Male thread		M10	9000 0300 00		3/8 BSP	11.2
		M15	9000 0301 00		1/2 BSP	14.8
		M20	9000 0302 00		3/4 BSP	19.0
		M25	9000 0303 00		1 BSP	25.5
F – Female thread		F10	9000 0304 00		3/8 BSP	15.0
		F15	9000 0305 00		1/2 BSP	18.6
		F20	9000 0306 00		3/4 BSP	24.0
		F25	9000 0307 00		1 BSP	25.0
Protection cover for CLAW couplings			9000 0314 00			
Extra packing for CLAW couplings		For type H, M and F	9000 0000 00 (+80°C), 9000 0000 01 (+200°C) <sup>a</sup>			
		For LNH10, -13 and -16	9000 0015 00			
		For LNH20 and -25	9000 0268 00 (+80°C), 9000 0319 00 (+200°C) <sup>a</sup>			
Safety lock spring			3176 8640 90		25 pieces	

<sup>a</sup> Viton-green.



Suitable for air, water and many other liquids and gases due to the choice of material.

### BAL – with nitrile rubber seals

Can be used in all settings between fully open and fully closed. The balls and the seals can be replaced without the body being removed from the piping.

### BAL-1A – with teflon seals

Intended for operating either fully open or fully closed.

## Technical Data

### BAL

Maximum working pressure: 16 bar.

Working temperature range: -20°C to +90°C.

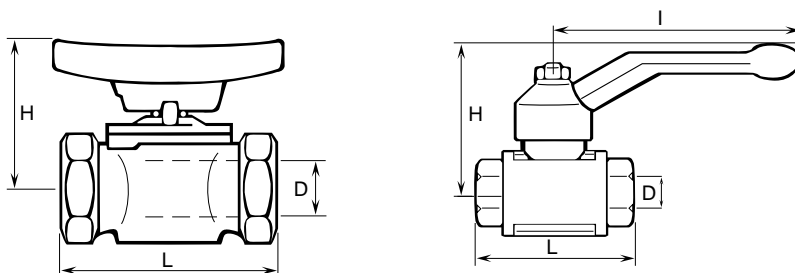
### BAL-1A

Maximum working pressure: 16 bar (BAL-1A 40 and 50: max. 16 bar up to +100°C).

Working temperature range: -30°C to +200°C. (BAL-1A 40 and 50: at +200°C max. working pressure is reduced to 8 bar).

Model	Connection thread in BSP	Bore D mm	L mm	H mm	I mm	Ordering No.
BAL 08	1/4	9.5	50	41	-	8202 0301 05
BAL 10	3/8	9.5	50	41	-	8202 0302 04
BAL 15	1/2	12.5	60	43	-	8202 0303 03
BAL 20	3/4	19	75	55	-	8202 0304 02
BAL 25	1	24.5	90	64	-	8202 0305 01
BAL-1A 08	1/4	8	43	44	73	8202 0306 03
BAL-1A 10	3/8	10	50	47	73	8202 0306 11
BAL-1A 15	1/2	15	61	53	94	8202 0306 29
BAL-1A 20	3/4	20	70	57	94	8202 0306 37
BAL-1A 25	1	25	83	67.5	122	8202 0306 45
BAL-1A 32	1 1/4	32	100	83	150	8202 0306 52
BAL-1A 40	1 1/2	38	107	87	150	8202 0306 60
BAL-1A 50	2	50	129	103	193	8202 0306 78

## Dimensions



# Swivel

connectors



## MultiFlex swivel Multi-directional connector

The MultiFlex swivel is an ingenious multi-directional connector. Connect your tool and the hose will stay in the ideal position however much you and the tool move around. The MultiFlex bends and rotates 360° in all directions while the hose stays straight. The hose feels almost weightless and hose wear is reduced.

Model	Max rec. air flow <sup>a</sup>		Thread		Weight g	Length mm	Dia mm	Ordering No.
	l/s	cfm	Inlet female in	Outlet male in				
MultiFlex 1/8" BSP	12	25	1/8	1/8	73	66.2	24	8202 1350 18
MultiFlex 1/4" BSP	12	25	1/4	1/4	73	66.2	24	8202 1350 20
MultiFlex 3/8" BSP	32	68	3/8	3/8	130	80.6	29.5	8202 1350 22
MultiFlex 1/2" BSP	32	68	1/2	1/2	125	80.6	29.5	8202 1350 24
MultiFlex 1/8" BSP <sup>b</sup>	12	25	1/8	1/8	76	66.2	27	8202 1350 40
MultiFlex 1/4" BSP <sup>b</sup>	12	25	1/4	1/4	76	66.2	27	8202 1350 41
MultiFlex 1/2" BSP <sup>c</sup>	54	114	1/2	1/2	326	98.3	39	8202 1350 60

<sup>a</sup>The pressure drop will be 0.2 bar at an inlet pressure of 6 bar.

<sup>b</sup> With cover.

<sup>c</sup> HIGH FLOW.

# Fittings

## Hose connection Male thread – hose nipple



Thread in	Hose size		Ordering No.
	mm	in	
1/8 BSP	3.2	1/8	9000 0523 00
1/8 BSPT	5	3/16	4010 0031 00
1/8 BSPT	6.3	1/4	9000 0240 00
1/4 BSP	3.2	1/8	9000 0524 00
1/4 BSPT	6.3	1/4	9000 0241 00
1/4 BSPT	8	5/16	9090 1715 00
1/4 BSPT	10	3/8	9000 0247 00
3/8 BSPT	10	3/8	9000 0242 00
3/8 BSPT	12.5	1/2	9000 0248 00
1/2 BSPT	12.5	1/2	9000 0243 00
1/2 BSPT	16	5/8	9000 0244 00
1/2 BSP	20	3/4	4150 0429 00
3/4 BSPT	20	3/4	9000 0245 00
1 BSPT	25	1	9000 0246 00

## Simple pressure clamps for PVC HOSES



For CABLAIR	For PVC	One-lugged steel clamp mm	Ordering No.
–	–	5.2- 6.2	0347 0122 18
–	–	5.9- 7.0	0347 0122 19
–	03	7.0- 8.5	0347 0122 05
06	05	8.5-10.0	0347 0122 06
08	06	9.8-11.8	0347 0122 07
–	08	11.3-13.3	0347 0122 08
10	–	12.8-14.8	0347 0122 09
–	10	14.6-16.8	0347 0122 10
13	–	16.5-18.8	0347 0122 11
–	13	18.0-20.3	0347 0122 12
16	–	20.2-22.8	0347 0122 13
–	–	22.0-24.8	0347 0122 14
20	–	23.3-26.3	0347 0122 15
–	–	26.5-30.0	0347 0122 16
25	–	29.8-33.1	0347 0122 22

## Gaskets



For couplings with male parallel thread	Fiber gasket between material and nipple Ordering No.
M5	0657 5710 00
1/8 BSP	0657 5742 00
1/4 BSP	0657 5764 00
3/8 BSP	0657 5785 00
1/2 BSP	0653 0500 01
3/4 BSP	0657 5823 00
1 BSP	0657 5830 00

## Medium pressure clamps for PVC HOSES



For CABLAIR	For PVC, POLUR	Medium clamp worm drive mm	Ordering No.
–	–	8.0-14.0	0347 6102 00
–	08	11.0-17.0	0347 6103 00
–	10	11.0-17.0	0347 6103 00
–	–	13.0-20.0	0347 6104 00
16	13	15.0-24.0	0347 6105 00
20	16	19.0-28.0	0347 6106 00
–	20	22.0-32.0	0347 6107 00
25	25	26.0-38.0	0347 6109 00
–	–	32.0-44.0	0347 6111 00
–	–	38.0-50.0	0347 6112 00
–	–	50.0-65.0	0347 6113 00

## Reducing nipple in brass



Female thread in	Male thread in	Ordering No.
1/4 BSP	1/8 BSP	9721 4000 94
3/8 BSP	1/4 BSP	9721 4000 92
1/2 BSP	3/8 BSP	9721 4000 93

## Swivels



Air inlet	Air outlet Male BSP	Max Swivel bend from centre line	Ordering No.
5/16" hose	1/4	30°	4210 3134 80

Recommended flow max 10 l/s

## Medium pressure clamps for RUBBER HOSES



For TURBO	For RUBAIR	Medium clamp worm drive mm	Ordering No.
–	06	11.0-17.0	0347 6103 00
13	10	13.0-20.0	0347 6104 00
16	13	15.0-24.0	0347 6105 00
–	16	19.0-28.0	0347 6106 00
20	–	22.0-32.0	0347 6107 00
–	20	26.0-38.0	0347 6109 00

### Heavy-duty pressure clamps for RUBBER HOSES



For TURBO	For RUBAIR	Heavy-duty clamp mm	Ordering No.
–	–	22.0-25.0	9000 0194 00
20	16	25.0-28.0	9000 0195 00
–	20	29.0-32.0	9000 0196 00
–	25	34.0-38.0	9000 0197 00

### Bushing Male thread – female thread



Male thread in	Female thread in	Ordering No.
1/4 BSP	1/8 BSP	9090 0799 00
3/8 BSP	1/4 BSP	9090 0798 00
1/2 BSP	1/4 BSP	9090 1469 00
1/2 BSP	3/8 BSP	9090 0797 00
3/4 BSP	1/2 BSP	9090 0796 00
1 BSPT	3/4 BSP	9090 0795 00

### Double connection Male taper thread – male taper thread



From thread in	To thread in	Ordering No.
1/8 BSPT	1/8 BSPT	9090 0100 00
1/8 BSPT	1/4 BSPT	9090 0110 00
1/4 BSPT	1/4 BSPT	9090 0120 00
1/4 BSPT	3/8 BSPT	9090 0130 00
3/8 BSPT	3/8 BSPT	9090 0140 00
3/8 BSPT	1/2 BSPT	9090 0150 00
1/2 BSPT	1/2 BSPT	9090 0160 00
1/2 BSPT	3/4 BSPT	9090 0170 00
3/4 BSPT	3/4 BSPT	9090 0180 00
3/4 BSPT	1 BSPT	9090 0190 00
1 BSPT	1 BSPT	9090 0200 00

### Double adjustable connection Male thread – male thread



From thread in	To thread in	Ordering No.
1/2 BSP	1/2 BSP	9090 0806 00

### Sealing rings for double adjustable connection



For coupling with male thread in	Spare rubber sealing ring for adjustable connections Ordering No.
1/2 BSP	9090 0884 00
1 BSP	9090 0886 00

### Hose connection with clamp nut and spring guard



#### 1 Clamp nut, brass

Hose diameter Outside/Inside mm	Male thread in	Ordering No.
10/8 <sup>a</sup>	1/4 BSP	9721 4002 89
10/8 <sup>a</sup>	3/8 BSP	9721 4002 90
12/9	1/4 BSP	9721 4000 86
12/10 <sup>b</sup>	3/8 BSP	9721 4000 88
15/12.5 <sup>c</sup>	1/2 BSP	9721 4000 89

Male threaded hose nipple with clamp nut should be used with female threaded quick couplings.

#### 2 Spring guard in steel

Hose diameter Outside/Inside mm	Ordering No.
10/8 <sup>a</sup>	9721 4002 88
12/10 <sup>b</sup>	9721 4000 91
15/12 <sup>c</sup>	9721 4002 85

The spring guard should be used with the clamp nut above.

<sup>a</sup> CABLAIR 08

<sup>b</sup> CABLAIR 10

<sup>c</sup> CABLAIR 13

### Manifolds 3/8 inlet on each side, 1/4 outlets for couplings



Inlet in	Thread		Number of outlets	Ordering No.
	Inlet in	Outlet in		
3/8 BSP	1/4 BSP	1/4 BSP	4	9090 0201 00
3/8 BSP	1/4 BSP	1/4 BSP	5	9090 0201 01
3/8 BSP	1/4 BSP	1/4 BSP	6	9090 0201 02

### Manifolds 3/8 inlet on each side, 1/4 outlet on both sides for couplings



Inlet in	Thread		Number of outlets	Ordering No.
	Inlet in	Outlet in		
3/8 BSP	1/4 BSP	1/4 BSP	4	9090 0201 10
3/8 BSP	1/4 BSP	1/4 BSP	6	9090 0201 11
3/8 BSP	1/4 BSP	1/4 BSP	8	9090 0201 12
3/8 BSP	1/4 BSP	1/4 BSP	10	9090 0201 13

# Fittings



**Y-connections**  
2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
F/F/M08	1/4 BSP	1/4 BSP	9090 0201 86
F/F/M10	3/8 BSP	3/8 BSP	9090 0201 87
F/F/M15	1/2 BSP	1/2 BSP	9090 0201 85



**Pipe tee**

Model	Female threads in	Ordering No.
F08	1/4 BSP	9090 0201 51
F10	3/8 BSP	9090 0201 53
F15	1/2 BSP	9090 0201 50
F20	3/4 BSP	9090 0201 52
F25	1 BSP	9090 0201 54



**Pipe cross**

Model	Female thread in	Ordering No.
F08	1/4 BSP	9090 0201 21
F10	3/8 BSP	9090 0201 22
F15	1/2 BSP	9090 0201 20



**Branch tee**  
2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
2xF08 1xM08	1/4 BSP	1/4 BSP	9090 0201 61
2xF10 1xM10	3/8 BSP	3/8 BSP	9090 0201 63
2xF15 1xM15	1/2 BSP	1/2 BSP	9090 0201 60
2xF20 1xM20	3/4 BSP	3/4 BSP	9090 0201 62
2xF25 1xM25	1 BSP	1 BSP	9090 0201 64



**Cross**  
3 female threads and 1 male thread

Model	Female thread in	Male thread in	Ordering No.
3xF08 1xM08	1/4 BSP	1/4 BSP	9090 0201 31
3xF10 1xM10	3/8 BSP	3/8 BSP	9090 0201 32
3xF15 1xM15	1/2 BSP	1/2 BSP	9090 0201 30



**Run tee**  
2 female outlets and 1 male inlet

Model	Female thread in	Male thread in	Ordering No.
F08/M08/F08	1/4 BSP	1/4 BSP	9090 0201 71
F10/M10/F10	3/8 BSP	3/8 BSP	9090 0201 72
F15/M15/F15	1/2 BSP	1/2 BSP	9090 0201 70



**Pipe elbow**

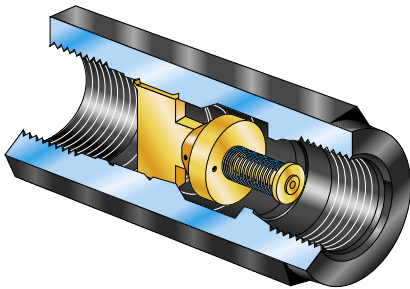
Model	Female thread in	Ordering No.
F08	1/4 BSP	9090 0201 40
F10	3/8 BSP	9090 0201 43
F15	1/2 BSP	9090 0201 41
F20	3/4 BSP	9090 0201 42
F25	1 BSP	9090 0201 44



**Hex head plug**

Model	Male thread in	Ordering No.
M08	1/4 BSP	9090 0201 81
M10	3/8 BSP	9090 0201 84
M15	1/2 BSP	9090 0201 80
M20	3/4 BSP	9090 0201 83
M25	1 BSP	9090 0201 82

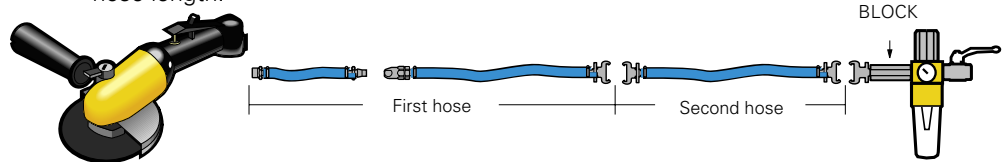
# Blow protector



When a fitting comes loose from a pressurized hose, the hose starts blowing compressed air in an uncontrolled way. The BLOCK blow protector shuts off the airflow, thus minimizing the risk of injuries to personnel and damage to the workpiece or the surroundings.

The selection parameters are the air pressure and the air flow. For proper function the air pressure should be set at 7 bar in order to reach 6 bar at the air tool. The air flow is determined by the air consumption of the tool and the hose length.

When working with impact wrenches and pulse tools care must be taken in the choice of blow protector. The value of air flow under full load must be increased by 50% when selecting a blow protector for impact wrenches and pulse tools as there will otherwise be a risk of shut-off when free running. BLOCK has automatic reset. When the air is switched on again the valve in BLOCK opens and is automatically reset.

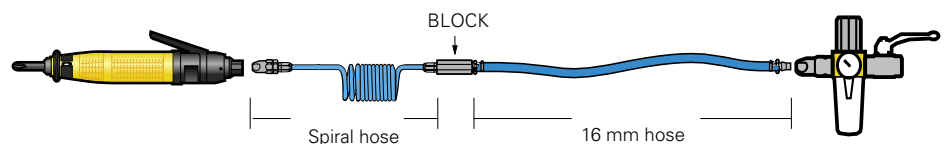


## Selection table using standard hoses

The air flow, hose length and hose sizes must all be within the recommended range in order to choose the correct blow protector. The second hose is only used when hoses longer than 20 m are used. The second hose will always be 20 m and the first hose will be cut to the right length.

Max working pressure = 16 bar.

Air flow air tool l/s	First hose		Second hose		Shut off air flow l/s	Product	Female thread BSP in	Ordering No.
	length m	size mm	length m	size mm				
0- 5	1- 5	6.3	0	-	7.8	BLOCK 08L	1/4	8202 0100 50
0- 5	6-10	8	0	-	13	BLOCK 08H	1/4	8202 0100 52
0- 8	1- 5	8	0	-	13	BLOCK 08H	1/4	8202 0100 52
0- 8	6-10	10	0	-	13	BLOCK 08H	1/4	8202 0100 52
0-10	1-10	10	0	-	13	BLOCK 08H	1/4	8202 0100 52
0-10	11-20	12.5	0	-	13	BLOCK 08H	1/4	8202 0100 52
0-14	1- 5	10	0	-	18	BLOCK 10L	3/8	8202 0100 54
0-14	6-10	13	0	-	18	BLOCK 10L	3/8	8202 0100 54
0-15	11-20	16	0	-	32	BLOCK 10H	3/8	8202 0100 56
0-25	1- 5	12.5	0	-	32	BLOCK 10H	3/8	8202 0100 56
0-25	6-10	16	0	-	32	BLOCK 10H	3/8	8202 0100 56
0-35	1- 5	12.5	0	-	45	BLOCK 15H	1/2	8202 0100 58
0-35	6-10	16	0	-	45	BLOCK 15H	1/2	8202 0100 58
0-35	11-20	19	0	-	45	BLOCK 15H	1/2	8202 0100 58
0-60	1-10	19	0	-	75	BLOCK 20H	3/4	8202 0100 60
0-60	1-10	19	20	25	75	BLOCK 20H	3/4	8202 0100 60
0-70	1- 7	19	0	25	86	BLOCK 25H	1	8202 0100 62
0-70	8-20	25	0	25	86	BLOCK 25H	1	8202 0100 62
0-70	1-20	25	20	25	86	BLOCK 25H	1	8202 0100 62



## Selection table when using spiral hoses and hose balancers

The airflow, spiral hose and hose balancer must all be within recommended range in order to choose the correct BLOCK blow protector.

The second hose, only used when needed, is a 16 mm normal hose with a maximum length of 5 meter. The second hose should be placed between the BLOCK and the FRL unit.

Air flow air tool l/s	Spiral hose or balancer			Shut off air flow l/s	Product	Female thread BSP in	Ordering No.
	Model	Hose length m	Hose size mm				
0- 4	SPI 06-3	2.5	6	8.3	BLOCK 08L	1/4	8202 0100 50
0- 6	HRIL 3	1.4	-	8.3	BLOCK 08L	1/4	8202 0100 50
0- 6	SPI 1S	2.0	6	8.3	BLOCK 08L	1/4	8202 0100 50
0- 6	SPI 2L	6.0	8	8.3	BLOCK 08L	1/4	8202 0100 50
0- 8	HRIL 4	1.1	-	14	BLOCK 08H	1/4	8202 0100 52
0- 8	SPI 09-3	2.5	9	14	BLOCK 08H	1/4	8202 0100 52
0- 8	SPI 2M	4.0	8	14	BLOCK 08H	1/4	8202 0100 52
0-11	SPI 2S	3.0	8	14	BLOCK 08H	1/4	8202 0100 52
0-11	SPI 2L	6.0	11	14	BLOCK 08H	1/4	8202 0100 52
0-15	SPI 3M	4.0	11	19	BLOCK 10L	3/8	8202 0100 54
0-20	SPI 3S	3.0	11	32	BLOCK 10H	3/8	8202 0100 56

# Hoses



Atlas Copco Tools has seven different hoses covering all types of needs for pneumatic hand tools.

The diagram helps you to choose the right hose according to the air consumption of the tool and the length of the hose. The purpose of the diagram is to ensure that the pressure drop in the hoses does not exceed 0.2 bar.

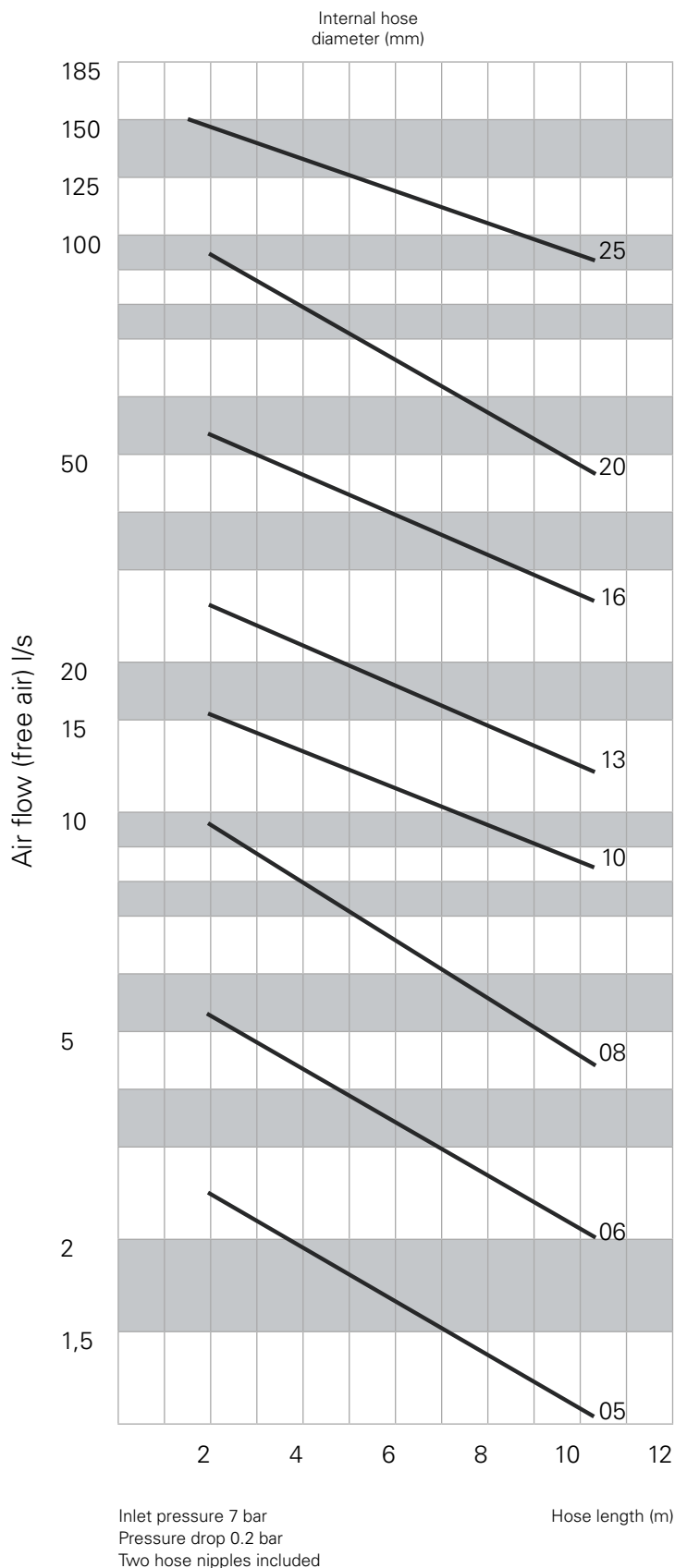
**How to find correct internal hose diameter:**

1. Find the required air consumption for the tool at 6 bar and the required hose length.
2. Use the required hose length and air flow to find required hose size.

**Example**

The tool has an air consumption of 10 l/s and the application requires a hose length of 7 m. These two values have a cross point slightly under the 10 mm size hose (7 m of 10 mm hose gives a value of approximately 11 l/s). Therefore a 10 mm hose will be suitable.

**Pressure drop diagram for hoses**



# Rubber hoses



## TURBO

### Super-light flexible rubber hose

The Turbo hose has been developed for both indoor and outdoor use. The hose weighs 30–40% less than conventional rubber hoses. Turbo hose is oil resistant.

- Extremely low weight.
- Soft and flexible.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -30°C to +70°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per		Ordering No.
	mm	in				20 m coil kg	30 m coil kg	
TURBO 13	13	1/2	19	20	21	3.9	–	9093 0057 91
TURBO 13	13	1/2	19	20	21	–	5.9	9093 0057 93
TURBO 16	16.8	2/3	22.8	20	43	4.8	–	9093 0057 31
TURBO 16	16.8	2/3	22.8	20	43	–	7.2	9093 0057 33
TURBO 20	21	5/6	27	20	75	5.4	–	9093 0057 61

<sup>a</sup> With a safety factor of 4 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



## RUBBER

### Durable, reinforced, extra thick, heavy duty rubber hose

Withstands rough handling and is suitable for the most demanding industrial tasks. The inner lining is black EPDM rubber and the hose is conductive to dissipate static electricity. Reinforced with synthetic textile yarns that provide high tensile strength.

- Durable.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -25°C to +70°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per		Ordering No.
	mm	in				20 m coil kg	30 m coil kg	
RUBBER	6.3	1/4	12	16	4	30	3.5	9030 2036 00
RUBBER	10	3/8	17	16	13	30	6.9	9030 2037 00
RUBBER	12.5	1/2	22	16	21	30	12.3	9030 2038 00
RUBBER	16	5/8	25	16	43	30	13.9	9030 2039 00
RUBBER	20	3/4	30	16	75	30	19.3	9030 2040 00
RUBBER	20	3/4	30	16	75	20	12.9	9030 2040 03
RUBBER	25	1	36	16	125	30	24.0	9030 2041 00
RUBBER	25	1	36	16	125	20	16.0	9030 2041 03

<sup>a</sup> With a safety factor of 5 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.



**RUBAIR**  
**Durable reinforced heavy**  
**duty rubber hose**

Rubair hose is double reinforced to fulfil all general heavy duty demands and is recommended for indoor and outdoor use. Rubair hose is oil resistant.

- Durable.
- Antistatic.
- Grinding and welding spatter resistant.
- Working temperature -20°C to +80°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 20 m coli kg	Ordering No.
	mm	in					
RUBAIR 10	10	3/8	16.0	16	13	3.6	8202 0402 10
RUBAIR 13	12.5	1/2	19.1	16	21	4.7	8202 0403 13
RUBAIR 16	16	5/8	23.0	16	43	6.1	8202 0404 16
RUBAIR 20	20	3/4	26.6	16	75	7.8	8202 0405 20
RUBAIR 25	25	1	34.0	16	125	11.8	8202 0406 25

<sup>a</sup> With a safety factor of 5 at 20°C.

<sup>b</sup> The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

# Hoses



## CABLAIR Super-light flexible PVC-hose

Cablaire is made of high-strength and high performance PVC compound. The Cablaire hose weighs 30–50% less, is much softer and more flexible than conventional PVC hoses.

- Low weight.
- Extremely soft and flexible.
- Silicone free.
- Ergonomic.
- Working temperature -15°C to +60°C.
- Applicable standards BS EN ISO 6224:2011, BS EN ISO 5774:2008.

Model	Hose inside dia		Hose outside dia		Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in	mm	in				
CABLAIR 06	6	1/4	8.5		14	4	1.2	9093 0035 11
CABLAIR 08	8	1/3	11		14	7.5	1.7	9093 0035 41
CABLAIR 10	10	2/5	13		12	13	2.1	9093 0035 71
CABLAIR 13	12.5	1/2	16		11	21	3.0	9093 0036 01
CABLAIR 16	16	5/8	21		8	43	5.4	9093 0036 31
CABLAIR 20	19	3/4	24		8	75	5.8	9093 0036 61
CABLAIR 25	25	1	31.5		7	125	10.4	9093 0036 91

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.

## CABLAIR ESD Extra flexible antistatic air hose

Cablaire ESD is designed specifically for the computer manufacturing industry. The hose possesses properties which enable ESDS (electrostatic sensitive devices) to be handled in a protected area with a low risk level, as a result of electrostatic discharge. The connection device must be earthed/grounded.

- Extra flexible.
- Antistatic.
- Silicone free.
- Testing in accordance with BS2050:1978 (1998) 4.12.
- Working temperature -15°C to +60°C.
- Applicable Standards BS EN ISO 6224:2011, BS EN ISO 5774:2008, BS EN ISO 8031:2009



Model	Hose inside dia		Hose outside dia		Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coli kg	Ordering No.
	mm	in	mm	in				
CABLAIR ESD 06	6	1/4	11	7/16	10	4	2.34	8202 0501 06
CABLAIR ESD 08	8	5/16	12	1/2	9	7.5	2.56	8202 0501 08
CABLAIR ESD 10	10	3/8	14	9/16	8	13	2.71	8202 0501 10
CABLAIR ESD 13	13	1/2	18	23/32	7	21	4.41	8202 0501 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).



## PVC Hose for heavy-duty applications

PVC hose has high resistance to abrasion, which makes it the ideal hose for tough working environments. It is mainly recommended for indoor use.

- Long service life.
- Pliable.
- Transparent.
- Working temperature -15°C to +60°C.
- Applicable Standards BS EN ISO 6224:2011, BS EN ISO 5774:2008

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 30 m coil kg	Ordering No.
	mm	in					
PVC 03	3.2	1/8	7	20	0.7	1.4	9093 0037 21
PVC 05	5	3/16	9	10	2.1	1.9	9093 0037 51
PVC 06	6.3	1/4	11	10	4	2.5	9093 0037 81
PVC 08	8	5/16	12	10	7.5	2.9	9093 0038 11
PVC 10	10	3/8	14	14	13	3.7	9093 0038 41
PVC 13	12.5	1/2	18	13	21	5.9	9093 0038 71
PVC 16	16	5/8	22	12	43	7.2	9093 0039 01
PVC 20	19	3/4	25	10	75	8.3	9093 0039 31
PVC 25	25	1	32	10	125	12.5	9093 0039 61

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m.



## POLUR High resistance polyurethane hose

Polur hose is the most environmentally friendly solution. It has high resistance to abrasion and it is oil resistant. Polur hose has a much longer lifetime than PVC hoses. Polur is ideal in tough working conditions due to its flexibility, even at minus degrees. Polur is recommended for indoor and outdoor use.

- Oil resistant.
- Flexible.
- Long service life.
- Working temperature -30°C to +60°C.

Model	Hose inside dia		Hose outside dia mm	Max working pressure <sup>a</sup> bar	Max rec. air flow <sup>b</sup> l/s	Weight per 25 m coil kg	Ordering No.
	mm	in					
POLUR 08	8	5/16	12	20	7.5	2.2	8202 0601 08
POLUR 10	10	3/8	14	16	13	2.5	8202 0602 10
POLUR 13	13	1/2	18	13	21	4.0	8202 0603 13

<sup>a</sup>With a safety factor of 3 at 20°C (at the max temp of +60°C the working pressure should be reduced by 50%).

<sup>b</sup>The pressure drop will be 0.2 bar on a hose length of 5 m, including 2 nipples and at an inlet pressure of 7 bar.

# Spiral hoses



## SPI Elastic hose for vertical and horizontal applications

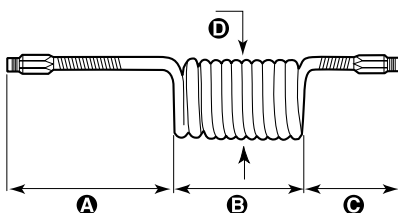
SPI elastic spiral hose is ideal for air tools used at varying distances from a fixed air outlet. It is easily stretched and retracts immediately when released. When used with hand tools, its self-storage principle ensures that the hose is kept off the floor and out of the way of the operator. The SPI 1 and SPI 2 have ball bearing swivels fitted on the long hose side to allow 360° rotation. All spiral hoses, except the SPI4, are fitted with plastic spring guard. SPI is the ideal hose in combination with a balancer.

- Self-retractable.
- Light and flexible.
- Strong and durable.
- Tubing material: Polyurethane (100% PUR).
- Hardness: Shore A 98 +2.
- Colour: Blue.
- Working pressure: 8 bar at 23°C.
- Burst pressure: 25 bar at 23°C.
- Temperature range: -40°C to +70°C.

Model	Hose inside dia mm	Hose outside dia mm	Max. rec. air flow <sup>a</sup> l/s	Working range m	Length			Max spiral dia (D) mm	Male threads in BSP	Ordering No.
					(A) mm	(B) mm	(C) mm			
SPI 1SPSW-S	6.5	10	7	2	500	165	150	55	1/4	8202 0508 71
SPI 1SPSW-M	6.5	10	5	4	500	330	150	55	1/4	8202 0508 73
SPI 2SPSW-S	8	12	13	2	500	130	150	70	3/8	8202 0508 75
SPI 2SPSW-M	8	12	10	4	500	270	150	70	3/8	8202 0508 77
SPI 2SPSW-L	8	12	9	6	500	435	150	70	3/8	8202 0508 79
SPI 2SPSW-XL	8	12	6	8	500	600	150	70	3/8	8202 0508 81
SPI 3SP-S	11	16	25	2	500	185	150	98	3/8	8202 0508 82
SPI 3SP-M	11	16	22	4	500	250	150	98	3/8	8202 0508 84
SPI 3SP-L	11	16	17	6	500	390	150	98	3/8	8202 0508 86
SPI 3SP-XL	11	16	13	8	500	550	150	98	3/8	8202 0508 88
SPI 4SP-XXL	13	19	21	10	500	850	500	115	3/8	8202 0508 90

<sup>a</sup> At inlet pressure 6 bar and pressure drop 0.5 bar.

## Dimensions



# Productivity kits



Productivity kits boost productivity, extend tool lifetime and ensure minimum pressure drop. Each productivity kit includes a ball valve, air preparation unit, and the couplings, hose and nipples needed for correct and safe installation of the tool. Just choose the correct productivity kit based on the air flow requirement of the tool and whether the tool needs lubrication or not. You'll be surprised how much the productivity kit improves the performance of the tool.

## Productivity kits for screwdrivers, drills and grinders

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small screwdrivers and small drills with 1/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C06-1/8	4 l/s	6 l/s	Cabclair 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	4 l/s	6 l/s	Cabclair 6 mm	ErgoQIC 08	No	8202 0850 19
<b>For small screwdrivers and small drills with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C06	4 l/s	6 l/s	Cabclair 6 mm	ErgoQIC 08	Yes	8202 0850 06
<b>For screwdrivers and drills with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	No	8202 0850 01
<b>For 1/2" drills and small nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 07
<b>For 1/2" small nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
<b>For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
<b>For percussive tools and grinders, incl. whip hose, no tool nipple included</b>						
MIDI Optimizer F/RD EQ10-R13-W	21 l/s	23 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
<b>For drills and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 02
<b>For drills and nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13-1/4	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 11
<b>For grinders and nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
<b>For grinders and nutrunners with 1/2" BSP air inlet</b>						
MIDI Optimizer F/R EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13
<b>For grinders with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T16	31 l/s	40 l/s	Turbo 16 mm	ErgoQIC 10	Yes	8202 0850 12
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/R C-T16	43 l/s	60 l/s	Turbo 16 mm	Claw	No	8202 0850 05
<b>For large Turbo grinders with 1/2" BSP air inlet</b>						
MAXI F/RD C-T20	65 l/s	65 l/s	Turbo 20 mm	Claw	Yes	8202 0850 20

## Productivity kits for impact wrenches and pulse tools

Model	Economical air flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small impacts and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EP EQ08-C08	7.5 l/s	9 l/s	Cabclair 8 mm	ErgoQIC 08	Yes	8202 0850 35
<b>For 1/2" impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 36
<b>For 1/2" impact wrenches and pulse tools with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cabclair 10 mm	ErgoQIC 08	Yes	8202 0850 37
MIDI Optimizer F/RD EQ10-R10	13 l/s	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 38
<b>For impact wrenches and pulse tools with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cabclair 13 mm	ErgoQIC 10	Yes	8202 0850 39
<b>For impact wrenches and pulse tools with 1/2" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 41

# Hose kits



## Pre-mounted hose kits

Atlas Copco hose kits give you the correct combination of hose and coupling so that you don't need to spend time choosing and mounting.

- Correct combination hose – coupling.
- Immediate use.

Hose	Dia mm	Length m	Nipple	Coupling	Air inlet thread nipple	Ordering No.
Cablair	6	5	ErgoNIP 08	ErgoQIC 08	-	8202 1182 01
Cablair	6	5	NIP 08	ErgoQIC 08US	-	8202 1182 16
Cablair	6	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 67
Cablair	6	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1182 01
Cablair	8	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 02
Cablair	8	5	NIP 08	ErgoQIC 08US	-	8202 1182 21
Cablair	8	5	ErgoNIP 10	ErgoQIC 08	1/4" BSP	8202 1180 77
Cablair	10	1.5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 25
Cablair	10	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 03
Cablair	10	5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 05
Cablair	10	5	NIP 10US	ErgoQIC 10US	-	8202 1182 17
Cablair	10	5	ErgoNIP 10	ErgoQIC 10	1/8" BSP	8202 1180 30
Cablair	13	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 79
Cablair	13	5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 10
Cablair	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 18
Cablair	13	8.5	ErgoNIP 10	ErgoQIC 10	-	8202 1182 20
Cablair	13	10	ErgoNIP 10	ErgoQIC 10	-	8202 1182 15
PVC	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 18
PVC	10	5	ErgoNIP 10	ErgoQIC 08	3/8" BSP	8202 1180 31
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	3/8" BSP	8202 1180 20
Rubair	10	5	NIP 10US	ErgoQIC 10US	-	8202 1182 23
Rubair	10	5	ErgoNIP 10	ErgoQIC 10	1/4" BSP	8202 1180 43
Rubair	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 24
Rubair	20	5	CLAW	ErgoQIC 10	-	8202 1180 24
Rubair	20	5	CLAW	CLAW	-	8202 1180 29
Turbo	13	5	ErgoNIP 10	ErgoQIC 10	1/2" BSP	8202 1180 22
Turbo	13	5	NIP 10US	ErgoQIC 10US	-	8202 1182 19
Turbo	16	5	ErgoNIP 10	ErgoQIC 10	-	8202 1180 34
Turbo	16	5	CLAW	ErgoQIC 10	1/2" BSP	8202 1181 80
Turbo	16	5	NIP 15US	ErgoQIC 15US	-	8202 1182 22
Turbo	16	10	ErgoNIP 10	ErgoQIC 10	-	8202 1180 46
Turbo	20	20	CLAW	ErgoQIC 10	-	8202 1181 75



### Pre-mounted whip hoses

If a quick coupling is used together with a vibrating tool, such as a percussive tool, impact wrench, grinder or impulse tool, we recommend it should be separated from the tool by a whip hose (length 0.5 m).





Hose	Dia mm	Length m	Nipple	Male thread	Ordering No.
Cablair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 19
Cablair	10	1.5	ErgoNIP 10	1/4" BSPT	8202 1182 30
Cablair	10	1.5	ErgoNIP 10	3/8" BSPT	8202 1182 35
Cablair	10	0.7	ErgoNIP 08	1/4" BSPT	8202 1180 47
PVC	10	0.7	ErgoNIP 08	3/8" BSPT	8202 1180 50
Rubair	10	0.7	ErgoNIP 10	1/4" BSPT	8202 1180 42
Rubair	10	0.7	ErgoNIP 10	3/8" BSPT	8202 1180 44
Rubair	13	0.7	ErgoNIP 10	1/2" BSPT	8202 1180 23
Rubair	16	0.5	ErgoNIP 10	1/2" BSPT	8202 1180 28
Rubair	16	0.5	CLAW	1/2" BSPT	8202 1180 37
Turbo	16	5	CLAW	1/2" BSPT	8202 1181 95

# Hose reels



Imagine your work area free from hoses so you no longer need to worry about tripping over them! Atlas Copco hose reels are the optimal solution. Your tools will always benefit from a high air flow with a small pressure drop when using Atlas Copco hose reels – and you will have all the benefits of a tidy workplace.

## Selection Guide

HM Light	HM Open	HM Flex L	HH Open XL
			
 Small screwdrivers  Small vane grinders  Small impact wrenches	 Percussive tools  Drills  Medium vane grinders  Medium impact wrenches	 Large vane grinders  Large turbine grinders  Large impact wrenches	
0–10 l/s	10–22 l/s		22–95 l/s

# Hose reels



## HM LIGHT

Hose reels from the HM Light series have a robust design with a durable, high impact composite casing. The outlet slot is optimized to provide an ideal pull-out angle for the hose. It is recommended to be used together with low air consuming tools such as small and medium screwdrivers, pulse tools, drills, impact wrenches, riveting and chipping hammers.

- Snap-on, pivoting wall bracket.
- PVC/PUR hose.
- Hose end provided with pressed fitting and steel spiral hose protector.
- Hose easily replaced when needed.
- Drum with ball bearings on both sides.
- Working temperature: 0°C - +50°C.
- Inlet hose length: 1 m

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) ls	Max air flow capacity (at 0.5 bar pressure drop) ls	Weight kg	Ordering No.
			mm	in						
HM LIGHT 8-8	8	PVC/PUR	8	5/16	10	1/4	4	7	3	8202 1183 30 <sup>a</sup>
HM LIGHT 8-12	12	PVC/PUR	8	5/16	10	1/4	3	5	5	8202 1183 31 <sup>b</sup>
HM LIGHT 10-10	10	PVC/PUR	10	3/8	10	3/8	6	10	5	8202 1183 32 <sup>b</sup>

<sup>a</sup> Working pressure: 12 bar

<sup>b</sup> Working pressure: 15 bar



## HM FLEX L

The HM FLEX L, with a steel casing and high quality rubber hose, handles both air and water. The HM FLEX L is recommended for all screwdrivers, pulse tools, impact wrenches, drills, chipping and riveting hammers and grinders up to 1,000 W.

- NBR rubber hose.
- Movable brackets for floor, wall and ceiling mounting.
- High flow capacity.
- Working temperature: -30°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Length m	Hose	Hose inside dia		Connection inlet BSP male	Connection distribution hose BSP male	Air flow l/s	Weight kg	Ordering No.
			mm	in					
HM FLEX L	10	Rubber	12.5	1/2	1/2	1/2	22	16	8202 1181 56



## HM OPEN

The HM Open has an open composite casing, a steel frame with a 10 or 13 mm hose. It is a reliable, medium sized hose reel recommended for screwdrivers, impact wrenches, pulse tools, drills, chipping and riveting hammers and grinders up 1,000 W.

- Spatter resistant rubber hose.
- Outlet roller position can be adjusted through 120 degrees for optimal pull-out angle.
- Hose end provided with steel spiral hose protector.
- Latch function is easily disengaged.
- Spring tension is easily adjusted.
- Floor, wall or ceiling mounting.
- Working temperature: -10°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) l/s	Max air flow capacity (at 0.5 bar pressure drop) l/s	Weight kg	Ordering No.
			mm	in						
HM OPEN 10-15	15	Rubber	10	3/8	12.5	3/8	5	9	11	8202 1183 33
HM OPEN 10-20	20	Rubber	10	3/8	12.5	3/8	5	7	14	8202 1183 34
HM OPEN 12-10	10	Rubber	12.5	1/2	12.5	1/2	13	22	12	8202 1183 35
HM OPEN 12-15	15	Rubber	12.5	1/2	12.5	1/2	11	17	13	8202 1183 36

Pivoting wall brackets needs to be ordered separately 4390 2080 10.



## HM OPEN XL

Hose reels in the HM Open XL series have an open die cast aluminum casing with a 3/8" or 1/2" hose. HM Open XL hose reels are recommended for screwdrivers, impact wrenches, pulse tools, drills, chipping and riveting hammers and high powered grinders.

- Spatter resistant rubber hose.
- Floor, wall or ceiling mounting.
- Revolving hinge for flexible use.
- Working temperature: -10°C - +60°C.
- Max. working pressure: 15 bar.
- Inlet hose length: 1 m.

Model	Hose length m	Hose type	Hose inside dia		Connection inlet hose inside dia (cut of hose) mm	Connection distribution hose BSP	Economical air flow (at 0.2 bar pressure drop) l/s	Max air flow capacity (at 0.5 bar pressure drop) l/s	Weight kg	Ordering No.
			mm	in						
HM OPEN XL 12-20	20	Rubber	12.5	1/2	12.5	1/2	8	14	27	8202 1183 37
HM OPEN XL 12-30	30	Rubber	12.5	1/2	12.5	1/2	8	12	28	8202 1183 38
HM OPEN XL 19-15	15	Rubber	19	3/4	19	3/4	27	44	28	8202 1183 39
HM OPEN XL 25-10	10	Rubber	25	1	25	1	60	95	30	8202 1183 40

Pivoting wall brackets needs to be ordered separately 4390 2080 11.

# Balancers



For easy access to the tools at your workstation, increased productivity and good ergonomics, choose Atlas Copco balancers. They are designed to reduce stress levels in the operator's muscles and minimize fatigue.

# Balancers



## WP balancer

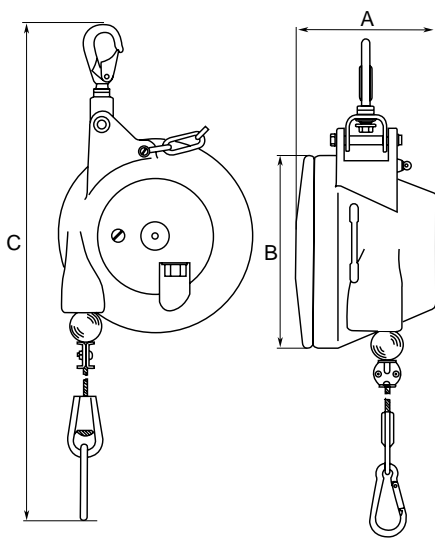
Weightless positioning balancers with a cone-shaped drum that holds the load in the correct position and keeps it weightless throughout the entire cable length. It minimizes worker fatigue.

## Safety

The load is not pulled back when released and the environment is protected from accidental hoisting of the load.

- Steel cable with cable stop buffer.
- Safety chain.
- Quick and easy cable replacement.

## Dimensions



Model	Capacity range		Cable length m	Weight		Dimension			Ordering No.
	kg	lb		kg	lb	A mm	B mm	C mm	
WP 05-1	0.4-1.2	0.9-2.6	1.6	1.3	2.9	71	141	460	8202 0778 00
WP 05-3	1.2-2.6	2.6-5.7	1.6	1.4	3.1	71	141	460	8202 0778 01
WP 05-4	2.6-3.8	5.7-8.4	1.6	1.5	3.3	71	141	460	8202 0778 02
WP 05-5	3.8-5.2	8.4-11.5	1.6	1.5	3.3	71	141	460	8202 0778 03
WP 05-6	5.2-6.5	11.5-14.3	1.6	1.5	3.3	71	141	460	8202 0778 04
WP 10-3	3-5	6.6-11	2	2.9	6.4	130	188	521	8202 0779 00
WP 10-4.5	4.5-7	10-15.4	2	3.1	6.8	130	188	521	8202 0779 01
WP 10-6	6-10	13-22	2	3.2	7.0	130	188	521	8202 0779 02
WP 10-9	9-14	20-31	2	3.4	7.5	130	188	521	8202 0779 03
WP 10-13	13-17	29-37	2	3.6	8.0	130	188	521	8202 0779 04
WP 10-16	16-21	35-46	2	3.8	8.4	130	188	521	8202 0779 05
WP 20-15	15-25	33-55	2	7.8	17.2	152	218	521	8202 0780 00
WP 20-25	25-35	55-77	2	8.9	19.6	152	218	521	8202 0780 01
WP 20-35	35-45	77-99	2	9.5	21.0	152	218	521	8202 0780 02
WP 20-45	45-55	99-121	2	9.8	21.5	152	218	521	8202 0780 03
WP 30-12	12-20	26-44	2	14.8	32.6	203	285	749	8202 0781 00
WP 30-20	20-30	44-66	2	15.2	33.5	203	285	749	8202 0781 01
WP 30-30	30-45	66-99	2	16.9	37.3	203	285	749	8202 0781 02
WP 30-45	45-60	99-132	2	17.3	38.1	203	285	749	8202 0781 03
WP 30-60	60-75	132-165	2	18.7	41.2	203	285	749	8202 0781 04
WP 30-75	75-90	165-198	2	19.7	43.4	203	285	749	8202 0781 05
WP 30-90	90-100	198-220	2	19.9	43.4	203	285	749	8202 0781 06
WP 40-100	100-115	220-254	3	42.0	43.9	348	320	800	8202 0782 00
WP 40-115	115-130	254-287	3	44.0	97.0	348	320	800	8202 0782 01
WP 40-130	130-140	287-309	3	46.0	101	348	320	800	8202 0782 02
WP 40-140	140-150	309-331	3	48.0	106	348	320	800	8202 0782 03



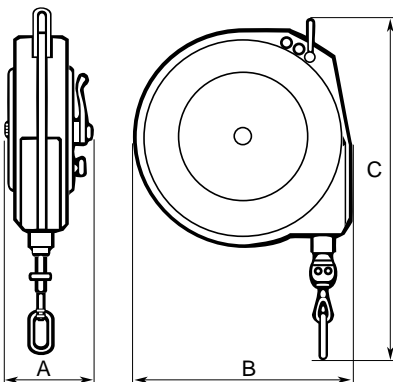
### RIL balancer

RIL balancers always keep the tool in place, and easily accessible. RIL balancers are available as retractors or weightless positioning balancers.

### RIL Retractors

- Adjustable wire stop.
- High quality spring and construction.
- Load range 0 to 10 kg.

## Dimensions



Model	Capacity range		Cable length m	Weight		Dimensions			Ordering No.
	kg	lb		kg	lb	A mm	B mm	C mm	
<b>Retractors</b>									
RIL 1C	0.0-0.5	0.0-1.7	1.5	0.6	1.3	51	106	238	8202 0700 02
RIL 2C	0.4-1.0	0.9-2.2	1.5	0.6	1.3	51	106	238	8202 0701 19
RIL 4C	1.0-2.0	2.2-4.4	1.5	0.6	1.3	51	106	238	8202 0702 18
RIL 5C	1.4-2.3	3.1-5.1	1.5	0.6	1.3	51	106	238	8202 0703 25
RIL 5	0.4-2.3	0.9-5.1	2.4	2.0	4.4	70	157	308	8202 0703 09
RIL 5LR <sup>b</sup>	0.4-2.3	0.9-5.1	2.4	2.0	4.4	70	157	308	8202 0703 15
RIL 10C	2.0-5.0	4.4-11.0	2.4	2.7	6.0	84	190	369	8202 0704 16
RIL 10CS <sup>a</sup>	2.0-5.0	4.4-11.0	2.4	2.7	6.0	84	190	369	8202 0704 20
RIL 15C	5.0-7.0	11.0-15.4	2.4	3.2	7.1	84	190	369	8202 0705 15
RIL 15CS <sup>a</sup>	5.0-7.0	11.0-15.4	2.4	3.2	7.1	84	190	369	8202 0705 20
RIL 22C	6.0-10.0	13.2-22.0	2.4	3.2	7.1	84	190	369	8202 0706 14
RIL 22CS <sup>a</sup>	6.0-10.0	13.2-22.0	2.4	3.2	7.1	84	190	369	8202 0706 20

<sup>a</sup> Balancer equipped with automatic safety drum lock in case of spring failure. Safety chain included.

<sup>b</sup> Contains a lock ratchet to lock the cable in increments along its entire length.

**NOTE:** RIL 1C, 2C, 4C and 5C come with nylon cable. All other models are equipped with steel wire.

## Accessories

### Safety chain

	Ordering No.
1C, 2C, 4C and 5C	4391 4045 90
10C <sup>a</sup> , 15C <sup>a</sup> and 22C <sup>a</sup>	4391 4156 00
5	4391 4046 90

<sup>a</sup> Safety chain included.

# Balancers



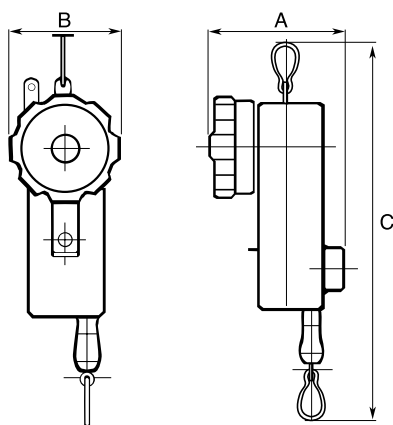
## COLIBRI – COL

Balancers in the unique COL range hold the load in the correct position and keep it weightless throughout the entire cable length. COL balancers reduce the stress level in the operator's muscles.

## Safety

The load is not pulled back when released and the surroundings are protected from accidental hoisting of the load. The cable locks in the event of spring failure (downward braking power). In all models the braking function can be activated upwards by using the "bow and arrow" principle if you need to slacken the cable to change the tool.

## Dimensions



Model	Capacity range		Cable length m	Weight		Dimensions			Ordering No.
	kg	lb		kg	lb	A mm	B mm	C mm	
COL 1 01	0.7-1.3	1.5-2.9	1.7	0.5	1.1	108	72	245	8202 0750 01
COL 1 02	1.0-2.0	2.2-4.4	1.7	0.5	1.1	108	72	245	8202 0750 19
COL 2 03	1.7-3.5	3.7-7.7	2.4	2.3	5.1	155	116	427	8202 0750 27
COL 2 04	3.0-6.0	6.6-13.2	2.4	2.3	5.1	155	116	427	8202 0750 35
COL 2 05	4.7-7.0	10.4-15.4	2.4	2.5	5.5	155	116	427	8202 0750 43
COL 3 07	5.5-9.0	12.1-19.8	2.4	3.3	7.3	196	116	427	8202 0750 50
COL 3 10	8.0-13.0	17.6-28.7	2.4	3.4	7.5	196	116	427	8202 0750 68
COL 3 15	12.5-17.0	27.6-37.5	2.4	3.8	8.4	196	116	427	8202 0750 76

**NOTE:** COL 1 01 and COL 1 02 comes with nylon cable. All other models are equipped with steel wire.

## Accessories

### Safety chain

	Ordering No.
COL 1	4391 4045 90
COL 2 and 3	4391 4046 90

# Hose

reels balancers



## Hose reel balancer – HRIL

Hose reel balancers are specifically designed for use with small pneumatic hand tools. The integrated air hose and support cable ensure the work area is kept tidy and the tool is easy to control.

- Ergonomics – The retraction force remains almost constant during hose travel. It minimizes load on the operator and ensures smooth operation.
- An easily adjusted rubber stop is mounted on the hose which allows the tool to be set at the optimum position.
- The retraction force is easily adjustable.
- Long service life – The design features a rugged casing, self lubricating spindle bearing bushes and a 360 degrees rotary inlet connector.
- The hose end is provided with a spiral hose protector to prevent excessive bending.
- Due to a low pressure drop HRIL balancers have very good flow characteristics.

Model	Capacity range		Max rec. air flow <sup>a</sup> l/s	Hose travel m	Weight		Max working pressure bar	Dimensions			Ordering No.
	kg	lb			kg	lb		A mm	B mm	C mm	
HRIL 1	0.2-0.5	0.4-1.1	3.5	1.2	1.2	2.6	10	92	132	173	8202 0600 03
HRIL 3	0.5-1.4	1.1-3.1	5.5	1.0	1.2	2.6	10	92	132	173	8202 0600 11
HRIL 4	0.7-2.0	1.5-4.4	6.5	1.0	1.4	3.1	10	92	132	173	8202 0600 29

<sup>a</sup> At inlet pressure of 6 bar pressure drop is 0.4 bar.

### Air line fittings

All models have a BSP 1/4" inlet fitting.

HRIL 1 supplied with M5 and BSP 1/8" outlet fittings.

HRIL 3 supplied with BSP 1/8" and BSP 1/4" outlet fittings.

HRIL 4 supplied with BSP 1/4" outlet fitting.

## Accessories

Designation	Ordering No.
Safety chain	4391 4045 90

# Blow guns

and test equipment



## Blow Gun BG-series

Blow guns in the BG Series are a robust, user friendly solution for all cleaning applications. The plastic body offers flexibility in handling for both left and right handed users. It insulates against cold and reduces the risk of scratches to worksurfaces. The blow gun has excellent throttling properties allowing easy regulation of the air flow.

- High flow capacity
- Suspension
- Plastic body to avoid scratches
- Air inlet thread in brass
- Star tip availability for improved safety

Model	Version	Working pressure bar	Air flow l/s	Weight		Air inlet thread BSP	Ordering No.
				kg	lb		
BG 2603-HF	Long tube, high flow	6.3	7.5	0.13	0.29	1/4	8202 1006 04
BG 2604-SHF	Short tube	6.3	4.3	0.12	0.26	1/4	8202 1006 05
BG 2605-STSS	Short tube, star tip	6.3	6.6	0.12	0.26	1/4	8202 1006 06
BG 2606-STSS	Long tube, star tip, silencer	6.3	6.3	0.14	0.31	1/4	8202 1006 07

## Test Equipment

### Air tool simulator

In order to check whether the pressure or the flow is sufficient the air tool simulator can be connected instead of the tool. The simulator is delivered with different connections.

**Ordering No. 4145 0698 81.**

### Pressure control unit

The unit consists of a high quality pressure gauge and the necessary couplings for checking the air pressure at the air inlet of the machine.

**Ordering No. 4145 0699 81.**

### Air leakage detector

The air leakage detector is used to find leaks (e.g. in compressed air installations, vacuum installations, etc.). It works by "listening" on a frequency band normally containing no interference and non-audible for humans (>20kHz). Leaking compressed air or electrical flashover (sparks) generate, e.g., ultrasonic sound.

The equipment is delivered in a suitcase and consists of: Detecting device, headphone set and directional probe.

**Ordering No. 8202 9002 00.**



# Product *safety*

All local safety regulations with respect to installation, operation and overhaul must always be followed. Please read the separate instructions regarding safety which are supplied with all products in order to improve your own safety!

## Ball valve

- Switch off the compressed air with the ball valve when you are not working (see fig. 1).
- Open all ball valves gently in order to discover improperly tightened devices (see fig. 5).

## Air preparation units

- Please check for solvents which change the structure of polycarbonate<sup>a</sup> bowls.

These solvents make the polycarbonate brittle so it can break. Normally polycarbonate is not easy to break. If you need to use aggressive solvents, please contact us and we will help you choose the right equipment.

- Use bowl guard.

An easy way to eliminate this type of accident is to use a bowl guard on MINI and MIDI units. The MAXI unit has an aluminum bowl with a new, more chemical resistant plastic on the inside as standard.

Check that the bowls are properly tightened and that all units are fitted together before switching on the compressed air with the ball valve.

## Quick safety couplings

To increase safety and reduce the risk of operator injuries we recommend you to always buy couplings with a safety function. Couplings with a safety function are disconnected in two stages in order to vent the coupling and minimize the risk of sudden component separation, which has the potential to cause operator injury.

## Follow this order when working with claw couplings.

### How to open a claw coupling:

- 1 Close the ball valve.



- 2 Run the tool so the air ventilates out.



- 3 Release the claw coupling.



### How to close a claw coupling:

Make sure that the two claw couplings are mounted together. Use claw couplings with lock nut (LNH) or use a lock spring for safer locking.



Never open a quick coupling with a screwdriver in order to ventilate the air.

## Claw couplings

- Be very careful (see fig. 1+2+3).

They are always open and must be used very carefully. To increase safety when using claw couplings, we recommend the claw LNH claw coupling with a lock nut.

## Clamps and connections

- Avoid screwdrivers when tightening.

Check that they are properly tightened. Avoid screwdrivers when tightening, they can easily slip and damage your hand. Use a wrench. If you need to use a screwdriver, mount the clamp in a vice.

## Hoses

When mounting hoses on hose connections, use water and soap in order to make the hose slip on to the connection. Do not use oil. Water and soap will dry up. Remove leaking hoses. A small leakage can quickly become a large hole.

## Blow protector (see fig. 6+7).

A dangerous situation can arise with a hose that is accidentally blowing compressed air in an uncontrolled way, causing it to whip.

## Blow guns

- Use the safety version. It eliminates the risk of air at high pressure coming into direct contact with skin.

<sup>a</sup> Polycarbonate has good chemical resistance to all solvents except chemicals containing acetone, benzol, glycerine, some hydraulic and synthetic oils, chloroform, methyl alcohol, carbon tetrachloride (and similar solvents), carbon disulphide, perchloroethylene, toluene, trichloroethylene, xylene (nitrocellulose, thinner), acetic acid.

- 5 Open the ball valve gently.



## 6 Use of blow protector:

This dangerous situation can be avoided by using a blow protector.

A BLOCK blow protector shuts off the air flow so the risk of personal injuries is minimized.



- 7 We strongly recommend the use of blow protector BLOCK when using claw couplings.

When a broken hose has been replaced and the compressed air is switched on again, the BLOCK is automatically reset.

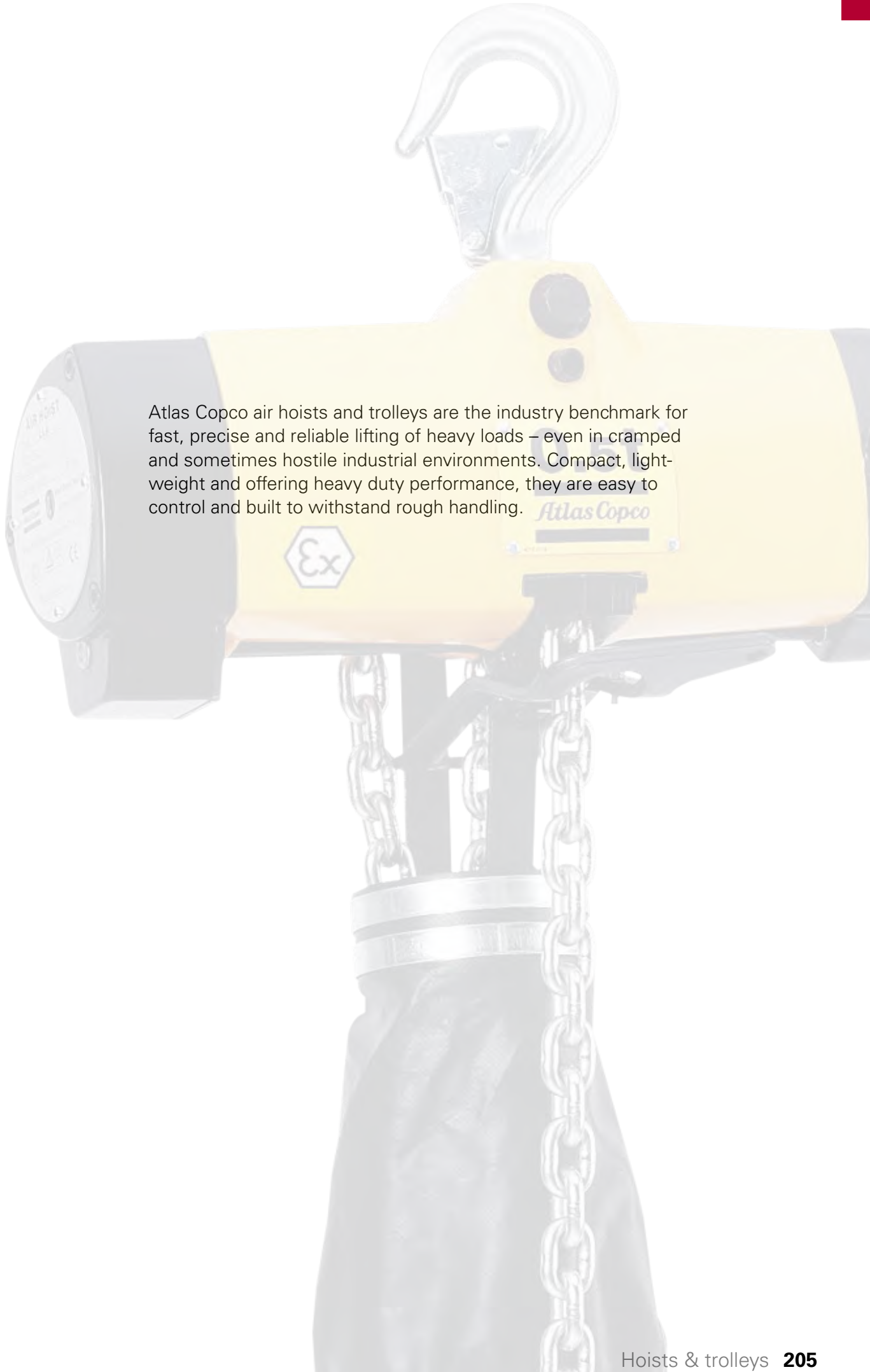


# Hoists and Trolleys

MAX LIFT 500KG



<http://www.atlascopco.com/hoistsandtrolleys>

A yellow Atlas Copco air hoist and trolley is shown against a white background. The hoist has a large metal hook at the top and a control panel on the left side. The body is yellow with black accents. A silver chain is attached to the bottom of the hoist, and a black bag is hanging from it. The text "Atlas Copco" is visible on the side of the hoist, along with a hexagonal "Ex" symbol.

Atlas Copco air hoists and trolleys are the industry benchmark for fast, precise and reliable lifting of heavy loads – even in cramped and sometimes hostile industrial environments. Compact, light-weight and offering heavy duty performance, they are easy to control and built to withstand rough handling.



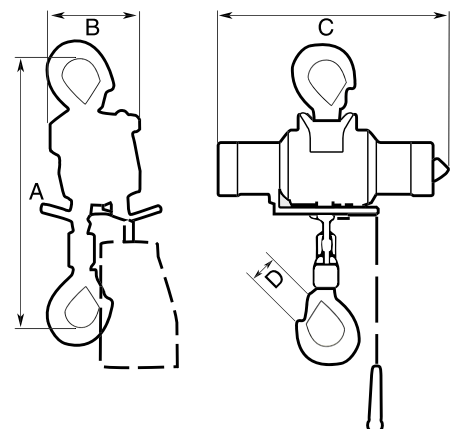
LLA air hoists offer precise, stepless speed control with excellent creep characteristics. They can operate continuously at maximum load with frequent start and stop cycles without risk of damage. The patented brake mechanism eliminates loadsink when starting lifting, and automatically holds the load if the air supply fails.

Small dimensions make LLA hoists easy to install and their low weight means they can easily be moved for maintenance or relocation purposes. The range is also available in lubrication free versions.

Model	Max lifting capacity kg	Lifting speed at full load		Chain drops qty	Weight excl chain		Chain weight		Required chain-length metre	Air consumption		Hose size		Air inlet thread BSP	Ordering No.
		m/min	ft/min		kg	lb	kg/m	lb/ft		l/s	cfm	mm	in		
LLA250 ATEX <sup>a</sup>	250	18.6	61.0	1	12.7	28.0	0.9	0.6	Lifting height + 0.5	37	78	12.5	1/2	1/2	8451 1540 10
LLA500 ATEX <sup>a</sup>	500	12.6	41.3	1	12.7	28.0	0.9	0.6	Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1540 28
LLA980 ATEX <sup>a</sup>	980	6.3	20.7	2	15.0	33.0	0.9	0.6	2 x Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1560 07
LLA1000 ATEX <sup>b</sup>	1000	6.3	20.7	2	15.0	33.0	0.9	0.6	2 x Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1540 36
LLA2500 ATEX <sup>b</sup>	2500	3.2	10.5	1	42.5	93.7	2.9	1.9	Lifting height + 0.6	40	85	12.5	1/2	1/2	8451 1540 44
LLA5000 ATEX <sup>b</sup>	5000	1.6	5.2	2	65.5	144.4	2.9	1.9	2 x Lifting height + 0.9	40	85	12.5	1/2	1/2	8451 1540 51
Lubrication free															
LLA250-L ATEX <sup>a</sup>	250	18.6	61.0	1	12.7	28.0	0.9	0.6	Lifting height + 0.5	37	78	12.5	1/2	1/2	8451 1550 17
LLA500-L ATEX <sup>a</sup>	500	12.6	41.3	1	12.7	28.0	0.9	0.6	Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1550 25
LLA500-L-W ATEX <sup>c</sup>	1100	12.6	41.3	1	12.7	28.0	0.9	0.6	Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1540 93
LLA980-L ATEX <sup>a</sup>	980	6.3	20.7	2	14.5	32.0	0.9	0.6	2 x Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1560 15
LLA1000-L ATEX <sup>b</sup>	1000	6.3	20.7	2	15.0	33.0	0.9	0.6	2 x Lifting height + 0.5	38	81	12.5	1/2	1/2	8451 1550 32
LLA2500-L ATEX <sup>b</sup>	2500	3.2	10.5	1	42.5	93.7	2.9	1.9	Lifting height + 0.6	40	85	12.5	1/2	1/2	8451 1550 41
LLA5000-L ATEX <sup>b</sup>	5000	1.6	5.2	2	65.5	144.4	2.9	1.9	2 x Lifting height + 0.9	40	85	12.5	1/2	1/2	8451 1550 58

## Dimensions

Model	A		B		C		D	
	mm	in	mm	in	mm	in	mm	in
LLA250 ATEX	377	14.8	122	4.8	390	15.4	29	1.1
LLA500 ATEX	377	14.8	122	4.8	390	15.4	29	1.1
LLA980 ATEX	445	17.5	122	4.8	390	15.4	29	1.1
LLA1000 ATEX	495	19.4	122	4.8	390	15.4	29	1.1
LLA2500 ATEX	575	22.6	212	8.3	546	21.5	50	2.0
LLA5000 ATEX	785	30.9	249	9.8	546	21.5	60	2.4



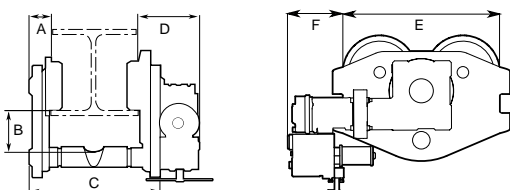


Atlas Copco trolleys are available in 3 sizes, for maximum loads of 1, 3 and 5 tonnes. All models can be supplied with air motor drive. The 1 tonne trolley includes a motor without pendant control. The 3 and 5 tonne models include a handle for the control chain (the control chain must be ordered separately). The 1 and 3 tonne trolleys are also available in manual versions.

Model	Max capacity	Max speed with full load		Air consumption		Beam width		Curve radius min		Weight		Ordering No.
	kg	m/min	ft/min	l/s	cfm	mm	in	mm	in	kg	lb	
<b>Manual</b>												
TLT1000-H-N	1000	-	-	-	-	50-160	2-6.3	1250	50	9.4	21	8451 1520 06
TLT1000-H-W	1000	-	-	-	-	161-280	6.3-11	1250	50	10.7	23.6	8451 1520 63
TLT3000-H-N	3000	-	-	-	-	74-180	2.9-7.1	2200	86.6	31.5	69.5	8451 1520 55
TLT3000-H-W	3000	-	-	-	-	181-300	7.1-11.8	2200	86.6	34	75	8451 1520 89
<b>Motor driven</b>												
TLT1000-M-N <sup>a</sup>	1000	14	45.9	4	8.5	50-160	2-6.3	1250	50	11	24	8451 1520 14
TLT1000-M-W <sup>a</sup>	1000	14	45.9	4	8.5	161-280	6.3-11	1250	50	12.3	27.1	8451 1520 71
TLT3000-M-N <sup>b</sup>	3000	17.8	58.4	42	89	74-180	2.9-7.1	2200	86.6	48	105.8	8451 1520 30
TLT3000-M-W <sup>b</sup>	3000	17.8	58.4	42	89	181-300	7.1-11.8	2200	86.6	51.5	113.5	8451 1520 97
TLT5000-M <sup>b</sup>	5000	16.2	53.1	42	89	181-300	7.1-11.8	2500	98.4	74	163.2	8451 1520 48

Model	A		B		C		D		E		F	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
<b>Manual</b>												
TLT1000-H-N	26	1.1	52	2.0	212	8.3	-	-	264	10.4	-	-
TLT1000-H-W	26	1.1	52	2.0	Beam width + 57	Beam width + 2.3	-	-	264	10.4	-	-
TLT3000-H-N	35	1.4	78	3.1	262	10.3	-	-	384	15.2	-	-
TLT3000-H-W	35	1.4	78	3.1	Beam width + 89	Beam width + 3.5	-	-	384	15.2	-	-
<b>Motor driven</b>												
TLT1000-M-N	24	1.0	52	2.0	212	8.3	225	8.9	264	10.4	-	-
TLT1000-M-W	24	1.0	52	2.0	Beam width + 57	Beam width + 2.3	225	8.9	264	10.4	-	-
TLT3000-M-N	37	1.5	78	3.1	262	10.3	148	5.9	380	15.0	94	3.7
TLT3000-M-W	37	1.5	78	3.1	Beam width + 89	Beam width + 3.5	148	5.9	380	15.0	94	3.7
TLT5000-M	41	1.6	93	3.7	Beam width + 97	Beam width + 3.8	166	6.6	437	17.2	59	2.4

## Dimensions



# Vibration and Noise Emission Values

## Impact Wrenches

Model	Vibration total value (3 axes value) according to ISO 28927-2 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Impact Wrenches</b>				
<b>Pistol grip</b>				
<b>Non shut-off</b>				
LMS08 HR	<2.5	-	85	96
LMS18 HR	5.3	-	90	101
LMS28 HR	5.2		92	103
LMS38 HR	3.5	1.5	88	99
LMS48 HR	5.0	1.4	89	100
LMS58 HR	5.5	1.6	92	103
LMS68 HR	8.1	2.8	98	109
<b>Straight</b>				
<b>Non shut-off</b>				
LMS08 SR	5.6	-	85	96
LMS68 GIR/GOR	8.1	2.8	98	109
LMS88 GIR/GOR	4.8	2	100	111

## Material removal tools

Model	Vibration total value (3 axes value) according to ISO 28927-1 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Grinders</b>				
<b>Turbo grinder</b>				
<b>Angle</b>				
GTG25 F120-13	3.8	0.9	74	-
GTG25 F085-18	3	0.8	74	-
GTG40 F085-18	3.5	0.8	84	95
GTG40 F066-23	<2.5	-	84	95
GTG40 S060-C15	3.4	0.8	84	95
<b>Turbo grinder</b>				
<b>Straight</b>				
GTR40 S085-15	<2.5	-	85	96
GTR40 S072-13	<2.5	-	85	96
GTR40 S060-15	<2.5	-	85	96
GTR40 S060-20	3.3	0.8	85	96
<b>Grinders</b>				
<b>Turbo sander</b>				
GTG25 D120	<2.5	-	77	-
GTG25 D085	<2.5	-	76	-
GTG25 S085	<2.5	-	72	-
GTG40 S060	<2.5	-	84	95
<b>Grinders</b>				
<b>Die grinder</b>				
<b>Straight</b>				
LSF12 S200-1	3.1	1.9	74	85
LSF12 S250-1	3.0	1.4	78	89
LSF12 S310-1	3.4	1.5	77	88
LSF12 S400-1	3.9	1.8	77	88
LSF19 S200-1	3.4	0.9	<70	-
LSF19 S200-2	3.4	0.9	<70	-
LSF19 S300-1	<2.5	-	70	-
LSF19 S300-2	<2.5	-	73	-

# Vibration and Noise Emission Values

## Material removal tools

Model	Vibration total value (3 axes value) according to ISO 28927-12 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744		Model	Vibration total value (3 axes value) according to ISO 28927-4 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744																																																																																																																			
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)		Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)																																																																																																																		
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<b>Straight</b>					LSR48 S120-CW																																																																																																																						
LSF19 S460-1	4.7	2	79	-	LSR48 S090-CW	<2.5	-	80	-																																																																																																																		
LSF19 S200E-1	3.1	1.8	70	-	LSR28 S180-05	6.5	1.8	76	-																																																																																																																		
LSF19 S300E-1	3.4	1.8	73	-	LSR28 S180-05	<2.5	-	85	96																																																																																																																		
LSF19 S300E-1/R	3.3	1	73	-	LSR28 S150-10	<2.5	-	85	96																																																																																																																		
LSF19 S460E-1	3.6	1.3	82	93	LSR28 S110-08	<2.5	-	70	-																																																																																																																		
LSF19 S460E-1/R	2.9	1.5	82	93	LSR43 S150-10	<2.5	-	<70	-																																																																																																																		
LSF19 S300-1/R	3.2	2.2	73	-	LSR43 S120-08	2.9	1	86	97																																																																																																																		
LSF38 S150E-01/R	<2.5	-	81	92	LSR43 S120-08	<2.5	-	84	95																																																																																																																		
LSF38 S180E-01/R	<2.5	-	85	96	LSR43 S090-10	<2.5	-	82	93																																																																																																																		
LSF38 S180E-01	<2.5	-	86	97	LSR48 S150-10	3.1	1.2	85	96																																																																																																																		
LSF38 S250E-01	2.8	1.3	90	101	LSR48 S120-08	<2.5	-	78	-																																																																																																																		
LSF28 S180	2.8	1.1	74	-	LSR48 S120-08R	<2.5	-	78	-																																																																																																																		
LSF28 S180E	<2.5	-	74	-	LSR48 S120-13	2.9	1.2	83	94																																																																																																																		
LSF28 S250	2.7	0.7	81	92	LSR48 S120-10	<2.5	-	80	-																																																																																																																		
LSF28 S180-1R	3.4	0.9	74	-	LSR48 S090-10R	<2.5	-	78	-																																																																																																																		
LSF28 S180E-1R	2.8	1	74	-	LSR64 S100-15	<2.5	-	88	99																																																																																																																		
LSF28 S250-R	3.1	1.8	81	92	LSR64 S072-13	<2.5	-	82	93																																																																																																																		
LSF28 S250E-R	3	0.7	81	92	LSR64 S060-15	<2.5	-	83	94																																																																																																																		
LSF28 S250E	<2.5	-	81	92	LSR28 ST070E-CW	3.1	1.1	81	92																																																																																																																		
LSF28 S150E	<2.5	-	<70	-	LSR43 S072	<2.5	-	83	94																																																																																																																		
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# Vibration and Noise Emission Values

## Material removal tools

Model	Vibration total value (3 axes value) according to ISO 28927-5 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Drills</b>				
<b>Pistol grip</b>				
LBB16 EP	<2.5	-	80	-
LBB16 EPX	<2.5	-	82	93

## Assembly tools

Model	Vibration total value (3 axes value) according to ISO 28927-2 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Pistol grip</b>				
LTP61 PH	<2.5	-	80	-
LTP61 H	<2.5	-	80	-
LTP61 HR	<2.5	-	80	-
LMP61 H	<2.5	-	80	-
LMP61 HR	<2.5	-	80	-
LMP24 H	<2.5	-	78	-
LMP24 HR	<2.5	-	79	-



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