



***Industrial tools for  
Fabrication and maintenance***

***Atlas Copco***

# ***SUSTAINABLE PRODUCTIVITY FOR HEAVY INDUSTRY WORLDWIDE***

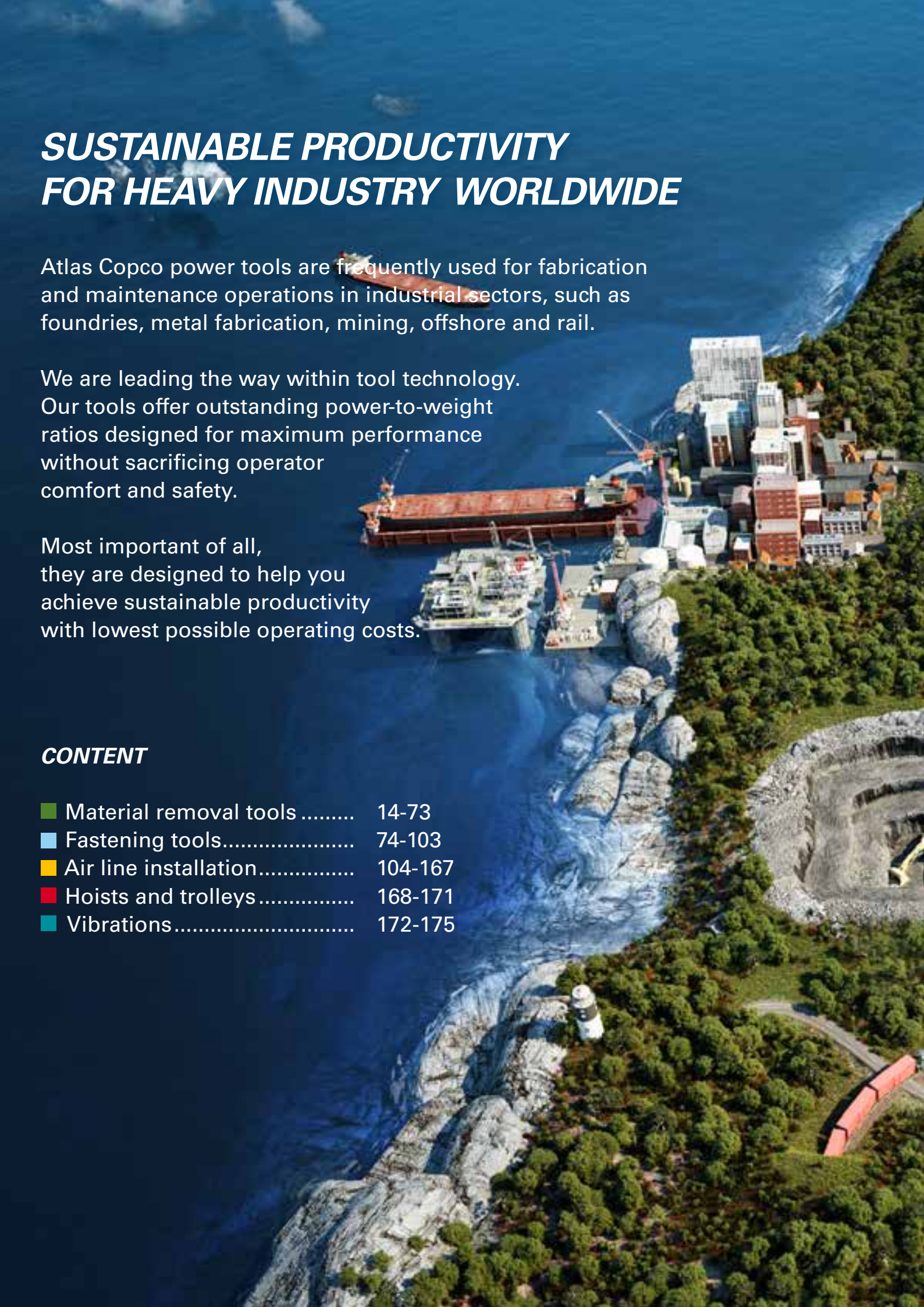
Atlas Copco power tools are frequently used for fabrication and maintenance operations in industrial sectors, such as foundries, metal fabrication, mining, offshore and rail.

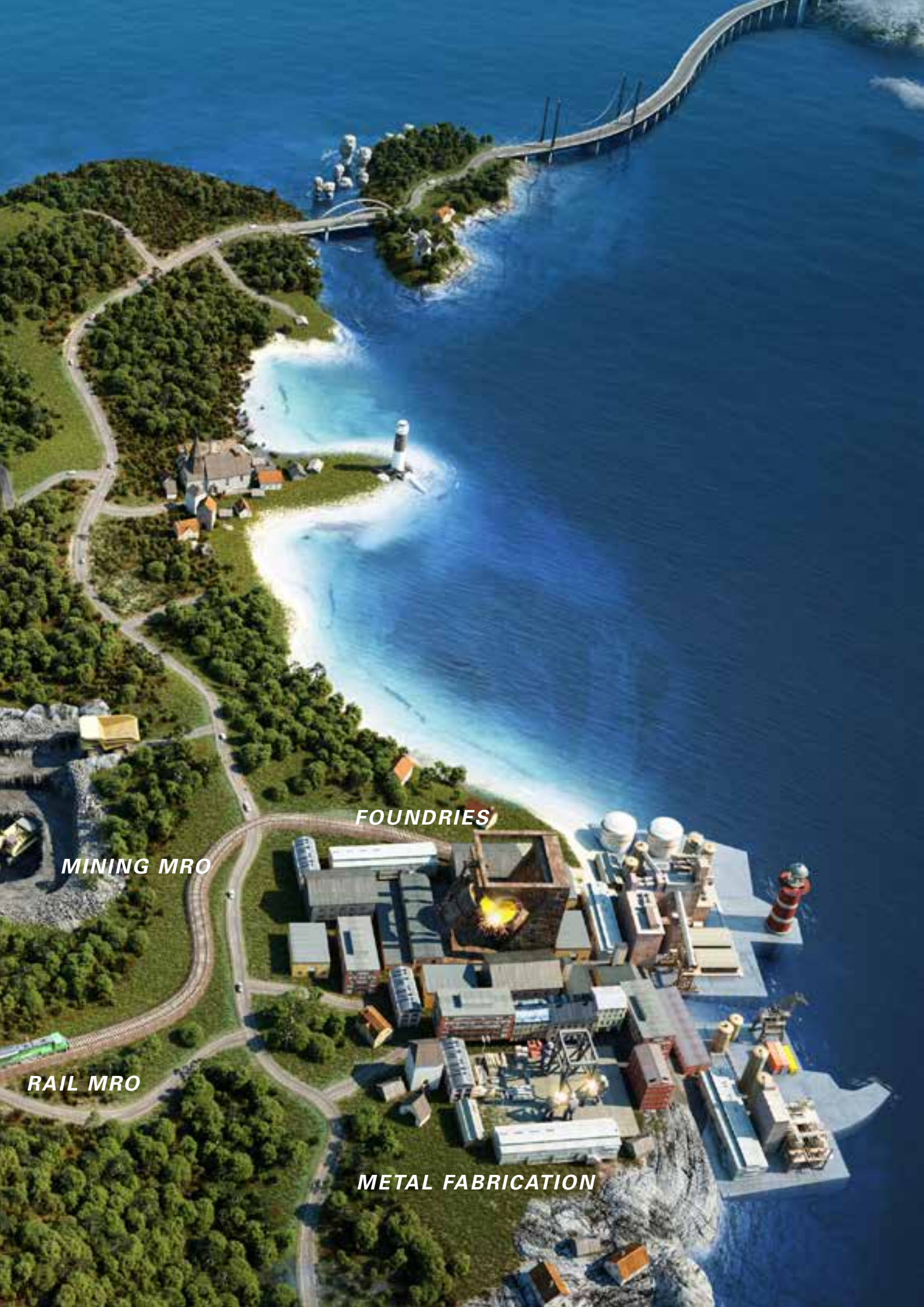
We are leading the way within tool technology. Our tools offer outstanding power-to-weight ratios designed for maximum performance without sacrificing operator comfort and safety.

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

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**MINING MRO**

**RAIL MRO**

**FOUNDRIES**

**METAL FABRICATION**





# ***METAL FABRICATION***

## **SHAPING THE FUTURE**

Cutting, bending, and assembling. Shaping metals to perfection includes an extensive range of different techniques. The steady growing business with increasing demand for quality and shorter delivery times require processes and tools that keep delivering, with repeatable quality. From blacksmiths in the days, in today's aerospace and automotive industry to whatever the future brings. From the small details to the big picture.



A large industrial ladle is shown pouring molten metal, which glows with a bright orange and yellow light. The ladle is positioned in the upper left quadrant of the frame. Below it, a cutting process is taking place, resulting in a shower of bright yellow sparks that fall towards the bottom left. The background is a dark, industrial setting with various metal structures and walkways.

# ***FOUNDRIES***

## **TAMING FIRE**

The art of molding, casting and controlling liquid metal has given us benefits since thousands of years BC. Modern day foundries build upon the same principles. And just as in any other business there is an increasing demand to produce more, bigger and better. Not an easy task in rough conditions as in a foundry. Taming fire, or plainly getting the job done.





# ***MINING MRO***

## **BREAKING GROUND**

From prehistoric times, no matter what earth has had to offer – stone, salt, gold – we have been mining. And we will keep on mining. Extracting valuables from the ground, using better tools and techniques as we move forward. Working conditions on a mining site are often extremely rough. This places high demands on vehicles, operators and tools. And if you want to be a part of this fascinating business – you really need to be groundbreaking.





A large red offshore vessel is being lifted by a yellow crane in a dry dock. The vessel is suspended by thick cables and is being moved along a set of rails. The scene is illuminated by warm, golden light, suggesting a sunset or sunrise. The water in the foreground is dark and reflects the light from the vessel and the crane. The crane's structure is visible on the right side of the frame, with a yellow tower and various mechanical components. The vessel's hull is a vibrant red, and its upper structure is partially visible. The overall atmosphere is one of industrial scale and engineering precision.

# ***OFFSHORE***

## **WHEN THE GOING GETS TOUGH**

Man has always wanted to explore, trade and expand – we started by foot and then found courage, and the means to conquer the sea. This curiosity had us building ships ever since the end of the ice age. Many things have changed since then, but the innovative strive remains. Constructed near tidal rivers and by the sea – dockyards are full of history, very much in the present and aiming for the future, whether you are building an oil platform or a LNG carrier.





# ***RAIL MRO***

## **TAKING IT FURTHER**

Ever since the first railway system appeared in 1820, progress has brought us reliable speed and endurance. From traditional horse power to pure machine power – taking it further than ever. The increasing focus on rail-bound transportation has resulted in higher production levels and new demands for everyone in the business. This is where a trail becomes a track, and a vision becomes a rail.

# ***MATERIAL REMOVAL TOOLS***

## ***CONTENT***

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# Rough Grinding and Cutting off













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

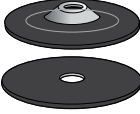

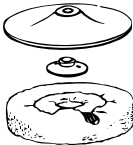

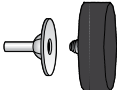
**DIE GRINDING AND DEBURRING**

- 1 Carbide burrs 
- 2 Mounted points 

**ROUGH GRINDING AND CUTTING OFF**

- 3 Depressed center wheels 
- 4 Cut off wheels 
- 5 Cup wheels 
- 6 Flap wheels 
- 7 Straight wheels 
- 8 Cone wheels 

**SANDING AND POLISHING**

- 9 Fibre discs 
- 10 Wire brushes 
- 11 Polishing bonnets 
- 12 Radial flap wheels 
- 13 Scotch-Brite 

# Grinders

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



GTG25



LSV48



GTG40



LSS64/84

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 times.

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

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 F120-M14	12000	2.5	125	M14	20	2.1	59	32	9	16	3/8"	8423 2525 10
GTG25 F120-5/8	12000	2.5	125	UNC 5/8"	20	2.1	59	32	9	16	3/8"	8423 2525 11
GTG25 F085-18	8500	2.5	180	-	-	2.2	59	32	9	16	3/8"	8423 2525 02
GTG25 F085-M14	8500	2.5	180	M14	20	2.2	59	32	9	16	3/8"	8423 2525 12
GTG25 F085-5/8	8500	2.5	180	UNC 5/8"	20	2.2	59	32	9	16	3/8"	8423 2525 13
GTG25 F085-18	8500	2.5	125	-	-	2.2	59	32	9	16	3/8"	8423 2525 15
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
<b>Vertical Grinders</b>												
LSS64 S085-18	8500	2.6	180	UNC 5/8"	29	4.7	201	50	13	16	1/2"	8423 2641 38
LSS64 S060-23	6000	2.2	230	UNC 5/8"	29	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
<b>Diamond cutting wheels</b>					
Ø 125 mm	3780 5074 61	-	3780 5074 61	-	-
Ø 180 mm	3780 5074 62	3780 5074 62	3780 5074 62	3780 5074 62	-
<b>Spot suction for diamond cutting wheel</b>					
Kit Ø 180 mm	3780 4090 35	-	3780 4093 42*	-	-
Flange set (incl. in kit)	-	-	3780 2799 50	-	-
<b>Spot suction kit for depressed center wheel</b>					
Kit Ø 180 mm	3780 4090 30	-	3780 4093 41*	-	-
<b>Add on spot suction</b>					
Ø 125 mm	3780 4032 14	-	-	-	-
Ø 180-230 mm	3780 4032 12	3780 4032 12	3780 4032 12	3780 4032 12	3780 4032 12

\*For LSV48 SA 085, 8423 0132 02, see Sanders pages

\*\*M14



Spot suction depressed center wheel



Add on spot suction

**NEED BETTER  
AIR FLOW?**

Check out our full range of Air Line accessories in chapter Air Line Installation.

# 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	13	3/8"	8423 0135 53
LSV28 ST12-10	12000	0.75	100	UNF 3/8"	17	1.7	75	17.4	7.5	13	3/8"	8423 0125 14
LSV28 ST12-12	12000	0.75	115	UNF 3/8"	17	1.7	75	17.4	7.5	13	3/8"	8423 0125 16
LSV28 ST12-13	12000	0.75	125	UNF 3/8"	17	1.7	75	17.4	7.5	13	3/8"	8423 0125 17
LSV28 ST13-10E	13000	0.75	100	UNF 3/8"	17	1.5	70	21.5	14.5	13	3/8"	8423 0125 29
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
<b>Prepared for spot suction</b>												
LSV38 D120	12000	1.30	125	M14	10	2.0	89	28	15.0	13	3/8"	8423 0800 02
<b>Vertical grinder</b>												
LSS53 S085-18	8500	1.40	180	UNC 5/8"	30	2.9	180	27.0	10.0	13	1/2"	8423 2530 72

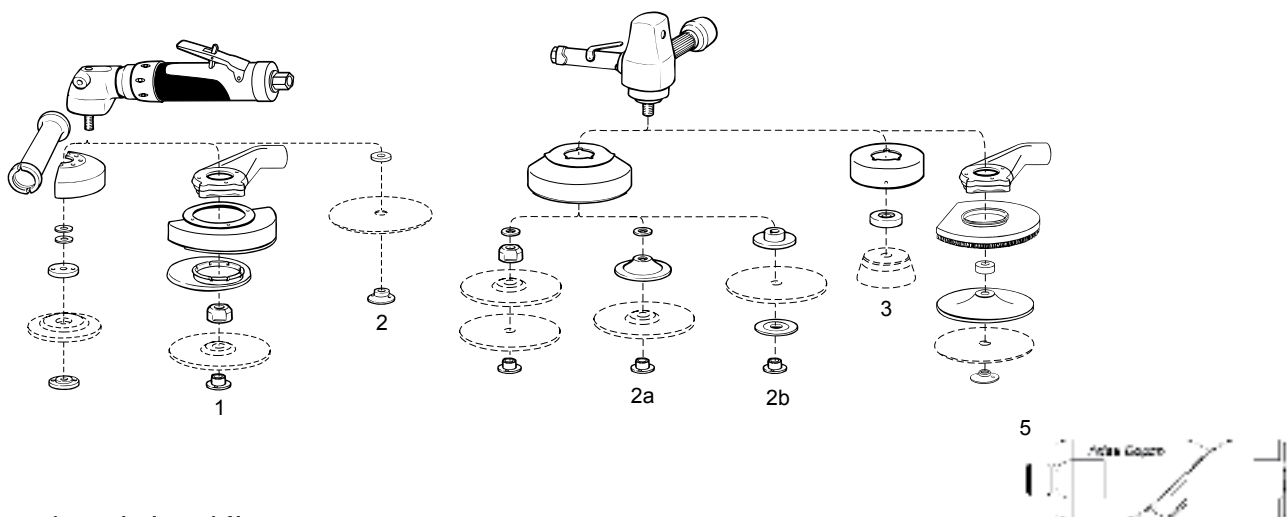
\*Includes Autobalancer

\*\*Flexible depressed centre wheel

# 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	-	-
<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 kit 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	-	-	-
<b>Add on spot suction</b>					
Ø 115-125 mm	-	3780 4032 14	3780 4032 14	-	-
Ø 180-230 mm	-	-	-	3780 4032 12	-
<b>Alu-cut guard kit</b>					
Saw blade, Ø 125 mm for cutting applications, 30 teeth, 2 mm thick	-	-	4112 1166 90	-	-
Saw blade, Ø 125 mm for milling applications, 6 teeth, 4 mm thick	-	-	4112 1164 00	-	-
Saw blade, Ø 125 mm for milling applications, 6 teeth, 4 mm thick	-	-	4112 1162 00	-	-
MultiFlex	8202 1350 20	8202 1350 22	8202 1350 24	8202 1350 60	5

\*Only for LSV38 D120, 8423 0800 02



# 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 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.

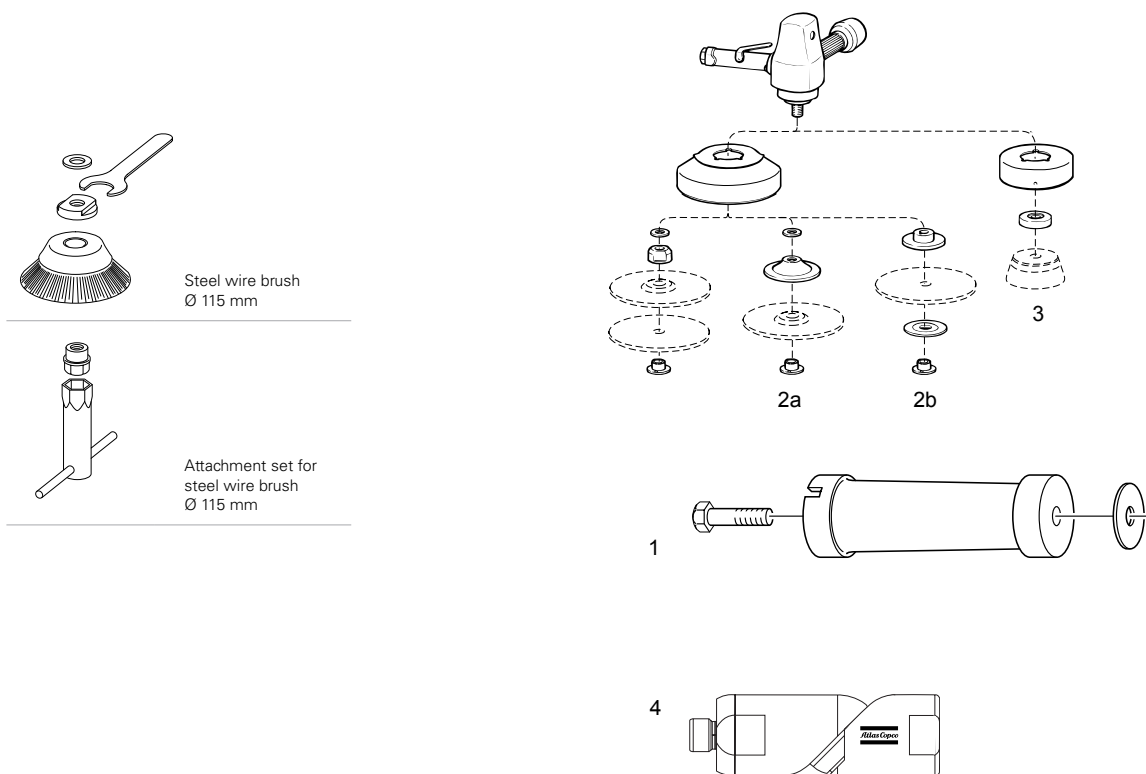


LSS64

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 F072-C13	7200	4.5	125	-	UNC 5/8"	16	4.1	100	60	20	16	1/2"	8423 2930 30
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"	29	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	-
Attachment set for Ø115 mm wire brush	-	4170 0459 81	4170 0459 81	-
Attachment set for cup wheel with plane hole	4175 0178 90	-	-	-
Wheel friction plate	4175 0186 90	-	-	-
Flange kit 5/8" for depressed center wheel	-	4170 0219 87	4171 0219 87	2a
Flange kit 5/8" 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



## 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



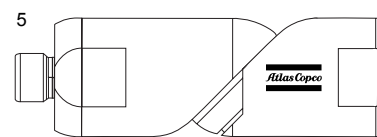
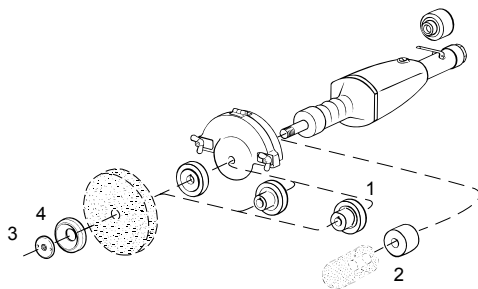
LSR64

Model	Max free speed r/min	Max output kW	Max wheel dia 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	Auto balancer	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 S120-10	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
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

Accessories Straight Grinders	GTR 40	LSR 28 UNF 3/8"	LSR 28 UNC 1/2"	LSR 43	LSR 48 UNC 1/2"	LSR 48 UNC 5/8"	LSR 64	See illustration
Flange nut	4150 0670 00	4150 1269 01	4150 1269 02	4150 0776 00	4150 0776 00	4150 0670 00	4150 0670 00	3
Front washer	4150 0671 00	4150 1270 01	4150 1270 02	4150 0731 00	4150 0731 00	4150 0671 00	4150 0671 00	4
Locking kit	4170 1188 90	-	-	-	-	-	-	
Rear flange for 0-25x13 mm wheel (WxH)	-	-	-	4150 0732 00	-	-	-	1
Rear flange for 0-25x16 mm wheel (WxH)	-	-	-	-	4150 0732 01	-	-	1
Rear flange for 25x16 mm wheel (WxH)	-	-	-	-	4150 0732 02	-	-	1
Rear flange for 25x20 mm wheel (WxH)	-	-	-	4150 0881 00	4150 0732 03	-	-	1
Rear flange for 25x25 mm wheel (WxH)	-	-	-	-	4150 0732 04	-	-	1
Rear flange for 13x10 mm wheel (WxH)	-	4150 1268 01	-	-	-	-	-	1
Rear flange for 13x20 mm wheel (WxH)	-	-	4150 1271 01	-	-	-	-	1
Rear flange for 20-25x16 mm wheel (WxH)	4150 0619 00	-	-	-	-	4150 0619 00	4150 0619 00	1
Rear flange for 20-25x20 mm wheel (WxH)	4150 1650 00	-	-	-	-	4150 1650 00	-	1
Rear flange for 20-25x25 mm wheel (WxH)	4150 0713 00	-	-	-	-	4150 0713 00	-	1
Rear flange for 20-25x32 mm wheel (WxH)	4150 0620 00	-	-	-	-	4150 0620 00	4150 0620 00	1
Spacer for cone wheel	4150 0787 00	-	-	-	-	4150 0787 00	4150 0787 00	2
Steel wire brush Ø115 mm for 5/8" spindle	-	-	-	-	-	-	4170 0491 00	
Attachment set for Ø115 mm wire brush	-	-	-	-	-	-	4170 0459 81	
MultiFlex	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60	8202 1350 60	5



## 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	Auto balancer	Scatter damped	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

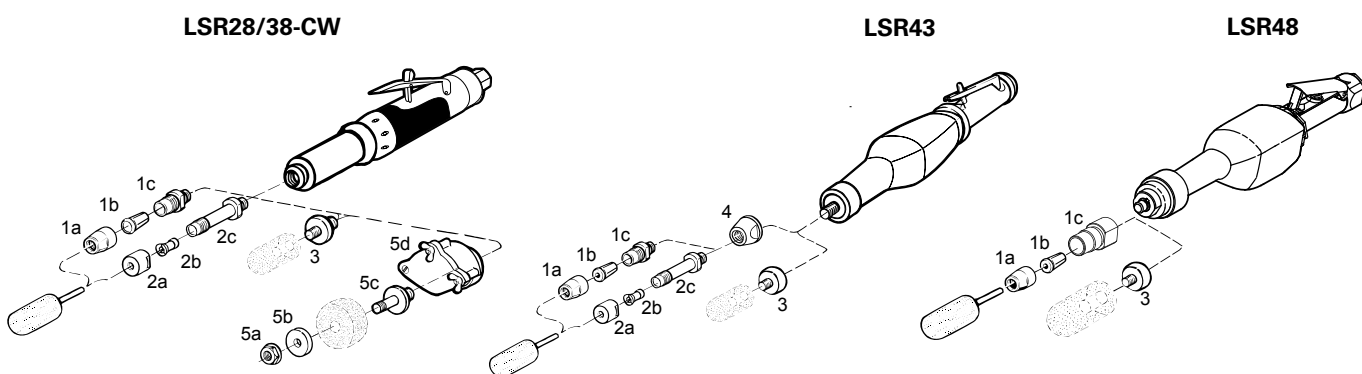
\*With collet attachment

# Accessories

Model	LSR28	LSR38	LSR43	LSR48	See illustration
<b>Adapter for cone 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</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	4150 0680 00	4150 0680 00	4150 0680 00	4150 0680 01	1c
Adapter to mount collet holder on tool			4150 0861 00		4
<b>Collet type</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 90 mm	4150 0441 00	4150 0441 00	4150 0441 00	-	2c
Collet holder 45 mm	4150 0211 00	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.

\*LSR48 has UNC 1/2" spindle for direct attachment of a cone wheel. For UNC 5/8" spindle or collet use an adapter (not included).




# 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 0.51 kw



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

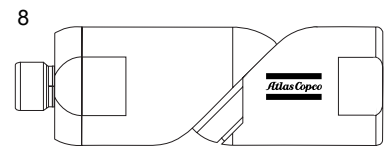
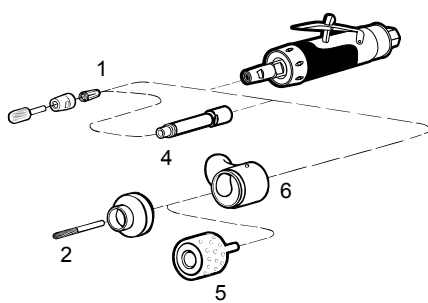
Model	Max free speed r/min	Max output kW	Collet size mm	Length mm	Weight kg	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Scatter damped	Ordering No.
<b>Straight die grinders</b>											
LSF12 S200-1	20000	0.24	6	170	0.36	8.1	2.6	8	1/4"	-	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	4150 0076 00	1
Collet Ø 3/16"	-	4150 2226 48	4150 0649 00	1
Collet Ø 5/32"	-	-	4150 0648 00	-
Collet Ø 5/16"	-	-	4150 0074 00	1
Collet Ø 3 mm	4150 1800 00	-	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
Collet holder	-	4150 2226 21	4150 1262 00	-
Extension 75 mm (3"). Only for rigid (-R) models	-	-	4150 0674 00	4
<b>For machining of plastic and fibreglass*</b>				
Spot suction kit burr (diamond 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 (diamond drum not incl). For use with 6 mm collet	-	-	3780 4011 61*	6
Diamond drum Ø 27 mm	-	-	3780 5033 00	5
Shaft Ø 6 mm (included in spot suction kit)	-	-	3780 5090 30	-
Locking screw for drum (included in spot suction kit)	-	-	3780 5090 60	-
MultiFlex	-	8202 1350 20	8202 1350 20	8

\*For LSF models only.



**NEED BETTER  
AIR FLOW?**

Check out our full range of Air Line accessories in chapter Air Line Installation.

# Die Grinders

up to 0.66–1.35 kw

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



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	13	3/8"	-	8423 1235 63
LSF28 ST070	7000	0.76	6	257	1.2	18.9	12.4	13	3/8"	-	8423 1235 66
LSF28 S120	12000	0.66	6	213	0.8	13.8	4.0	13	3/8"	●	8423 1235 67
LSF28 S150	15000	0.70	6	213	0.8	15.0	5.5	13	3/8"	●	8423 1235 64
LSF28 S180	18000	0.82	6	213	0.8	17.4	7.0	13	3/8"	●	8423 1235 04
LSF28 S180-1R	18000	0.82	6	213	0.8	17.4	7.0	13	3/8"	-	8423 1235 41
LSF28 S250	25000	0.86	6	213	0.8	18.5	11.0	13	3/8"	●	8423 1235 11
LSF28 S250-R	25000	0.86	6	213	0.8	18.5	11.0	13	3/8"	-	8423 1235 48
<b>Straight extended die grinders</b>											
LSF28 ST030E	3000	0.67	6	383	1.8	18.0	8.6	13	3/8"	-	8423 1235 62
LSF28 ST070E	7000	0.76	6	383	1.8	18.9	12.4	13	3/8"	-	8423 1235 65
LSF28 S150E	15000	0.70	6	338	1.3	15.0	5.5	13	3/8"	●	8423 1235 61
LSF28 S180E	18000	0.82	6	338	1.3	17.4	7.0	13	3/8"	●	8423 1235 05
LSF28 S180E-1R	18000	0.82	6	338	1.3	17.4	7.0	13	3/8"	-	8423 1235 42
LSF28 S250E-R	25000	0.86	6	338	1.3	18.5	11.0	13	3/8"	-	8423 1235 49
LSF28 S250E	25000	0.86	6	338	1.3	18.5	11.0	13	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

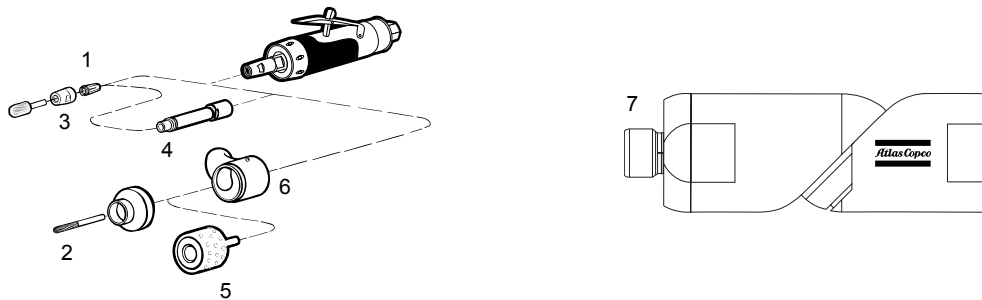
R=Rigid mount



## Accessories

Model	LSF/LSV28	LSF38	See illustration
<b>Collets</b>			
Collet Ø 1/4"	4150 0076 00	4150 1754 00	1
Collet Ø 3/16"	4150 0649 00	-	
Collet Ø 5/16"	4150 0074 00	-	
Collet Ø 3 mm	4150 0081 00	-	1
Collet Ø 5 mm	4150 0075 01	-	
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
Collet holder (LSF)	-	4150 1587 00	-
Collet holder and collet nut (LSF)	4110 0844 90	-	-
Extension 75 mm (3"). Only for rigid (-R) models	4150 0674 00	-	4
<b>For machining of plastic and fiberglass*</b>			
Spot suction kit burr (diamond burr not included)	3780 4007 42*	-	6
Diamond burr Ø 6 mm	3780 5013 70	-	2
Spot suction kit drum (diamond drum not incl.). For use with 8 mm collet	3780 4011 73*	-	6
Diamond drum Ø 52 mm	3780 5035 00	-	5
Shaft Ø 8 mm (included in spot suction kit)	3780 5091 00	-	-
Locking nut (included in spot suction kit)	3780 5092 00	-	-
Distance nut (included in spot suction kit)	3780 5091 50	-	-
MultiFlex	8202 1350 22	8202 1350 24	7

\*For LSF model only.



## 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

# Beveling tools



LSB

## Cutting Edge Technology

Beveling gives you a sound welded joint with a good amount of weld in place for maximum strength. And it is safer, more resistant and easier on the eye. Rounded edges of metal surfaces gives you proper thickness of coatings to avoid corrosion due to moisture, air, dust and even chipping. The LSB38 is an excellent combination of power, design, durability and ergonomics for chamfering, deburring and giving radius edges to metal plates in stainless steel, mild steel and aluminium.



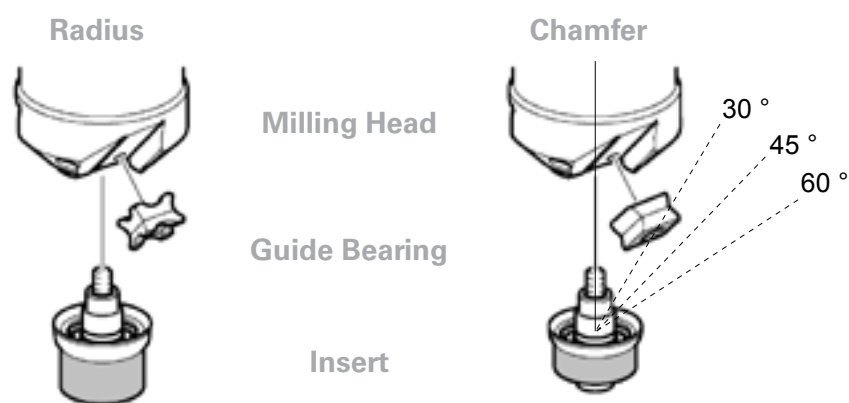
GTB

Model	Max free Speed r/min	Max Bevel Width mm	Max Radius mm	Max. Power Kw	Weight Kg	Max Height over guide plate mm	Air Consumption Max Output l/s	Air Consumption Free speed l/s	Rec. Hose Size mm	Air Inlet thread BSP	Ordering No
LSB 38 S085	8500	8	4	1.3	2.5	111	28	15	13	3/8"	8423 0131 30
GTB25-S085	8500	15	4	2.5	3.7	137	34	9	16	3/8"	8423 2525 50

## Beveling Matrix

	Radius 2 mm	Radius 3 mm	Radius 4 mm	Chamfer 30 °	Chamfer 35 °	Chamfer 40 °	Chamfer 45°	Chamfer 50°	Chamfer 55°	Chamfer 60°
<b>LSB 38</b>										
Milling Head	4150 2240 90	4150 2240 90	4150 2240 90	4150 2240 94	4150 2240 98		4150 2240 90		4150 2240 96	4150 2241 04
Guide bearing	4150 2240 80	4150 2240 91	4150 2240 92	4150 2240 95	4150 2240 99		4150 2240 93		4150 2240 97	4150 2241 05
Insert	4150 2241 93	4150 2241 90	4150 2241 91	4150 2241 92	4150 2241 92		4150 2241 92		4150 2241 92	4150 2241 92
<b>GTB 25</b>										
Milling Head	4175 0680 87	4175 0680 87	4175 0680 87	4175 0680 88	4175 0680 93	4175 0680 94	4175 0680 87	4175 0680 90		4175 0680 89
Guide bearing	4175 0682 85	4175 0682 82	4175 0682 83	4175 0682 80	4175 0682 86	4175 0682 87	4175 0680 82	4175 0682 84		4175 0682 81
Insert	4150 2241 93	4150 2241 90	4150 2241 91	4150 2241 92	4150 2241 92	4150 2241 92	4150 2241 92	4150 2241 92		4150 2241 92

NOTE: Each type of inserts work with respective Guide bearing only



## Productivity Kits

Model	Economical air flow	Max air flow	Hose, 5 mm	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-T13	21 l/s	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17

NOTE: Tool nipple is not included in the Productivity kit and needs to be ordered separately together with the tool.

# 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.

# 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

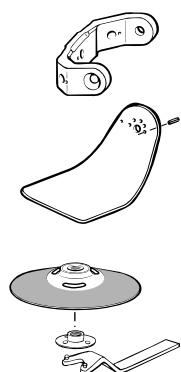
Model	Max free speed r/min	Max output kW	Max pad dia mm	Spindle thread	Spindle length mm	Weight kg	Height over spindle mm	Air consumption at max output l/s	Air consumption at free speed l/s	Rec hose size mm	Air inlet thread BSP	Ordering No.
GTG25-S060	6000	2.5	230	UNC 5/8"	23	2.0	84	32	9	16	3/8"	8423 2525 20
GTG25-S060-M14	6000	2.5	230	M14	23	2.0	84	32	9	16	3/8"	8423 2525 21
GTG25-S085	8500	2.5	180	UNC 5/8"	23	2.0	59	32	9	16	3/8"	8423 2525 03
GTG25-S085-M14	8500	2.5	180	M14	23	2.0	59	32	9	16	3/8"	8423 2525 04
GTG40 S060	6000	4.5	230	UNC 5/8"	23	3.6	132	60	20	16	1/2"	8423 2930 00
LSV48 SA066	6600	1.9	180	UNC 5/8"	21	2.3	78	36	17	16	1/2"	8423 0132 00
LSV48 SA085	8500	1.9	180	UNC 5/8"	21	2.3	78	36	17	16	1/2"	8423 0132 02
LSV48 SA085-M14	8500	1.9	180	M14	18	2.3	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	-	-	4170 0756 80	-
Ø 180mm - 5/8" - stiff	-	-	4170 0757 80	-
<b>Backing set with cooling ribs</b>				
Ø 125mm - 5/8" and M14, medium	-	-	4150 1962 80	-
Ø 180 mm - 5/8" and M14, stiff	4150 1962 83	4150 1962 83	4150 1962 83	-
Ø 180 mm - 5/8" and M14, medium	4150 1962 81	4150 1962 81	4150 1962 81	-
<b>Backing set, heavy duty type</b>				
Ø 120 mm - M14	-	-	4175 0883 93	-
Ø 162 mm -M14	-	-	4175 0883 91	-
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>				
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	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	3780 2675 00	2
Backing pad Ø180 mm (incl. in kit)	-	3780 2710 60	3780 2710 60	3
Distance washer 12 mm (incl. in kit)	-	3780 2721 40	3780 2721 50	6
Nut 5/8" (incl. in kit)	-	3780 2722 00	3780 2726 70	5
Brush for suction cap, 20 mm Ø 180 mm	3780 2677 50	3780 2677 50	3780 2677 50	-
Brush for suction cap, 30 mm Ø 180 mm	3780 2677 30	3780 2677 30	3780 2677 30	-
MultiFlex	8202 1350 22	8202 1350 60	8202 1350 24	7

## GTG40

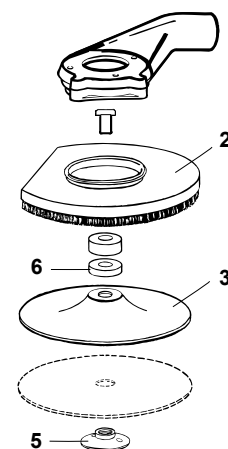
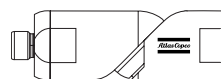


Positioner for support handle

Hand shield

Back-up pad

7



## 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	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.
LSV28 S040	4000	0.62	180	UNC 5/8"	32	1.5	86	15.0	4.0	13	3/8"	8423 0126 22
LSV28 S060	6000	0.73	180	UNC 5/8"	32	1.5	86	16.0	7.3	13	3/8"	8423 0125 30
LSV28 S060-M14	6000	0.73	180	M14	16	1.5	86	16.0	7.3	13	3/8"	8423 0125 64
LSV38 S066	6600	1.20	180	UNC 5/8"	22	1.5	96	24.0	13.0	13	3/8"	8423 0130 73
LSV38 S066-M14	6600	1.20	180	M14	12	1.5	96	24.0	13.0	13	3/8"	8423 0130 77
LSV38 S085	8500	1.30	180	UNC 5/8"	22	1.5	96	28.0	15.0	13	3/8"	8423 0130 69
LSV38 S085-M14	8500	1.30	180	M14	12	1.5	96	28.0	15.0	13	3/8"	8423 0130 72
<b>Dust extraction included</b>												
LSV38 S085 D	8500	1.30	180	UNC 5/8"	22	1.5	96	28.0	15.0	13	3/8"	8423 0130 76
LSV38 S066 D	6600	1.20	180	UNC 5/8"	22	1.5	96	24.0	13.0	13	3/8"	8423 0130 75
<b>Prepared for dust extraction</b>												
LSV38 D085	8500	1.30	180	UNC 5/8"	22	1.5	96	28.0	15.0	13	3/8"	8423 0800 03
LSV38 D120	12000	1.30	125	M14	10	2.0	89	28.0	15.0	13	3/8"	8423 0800 02
LSS53 S060	6000	1.2	180	UNC 5/8"	30	2.3	180	24.0	7.0	13	1/2"	8423 2530 23
LSS53 S060-M14	6000	1.2	180	M14	31	2.3	180	24.0	7.0	13	1/2"	8423 2530 27

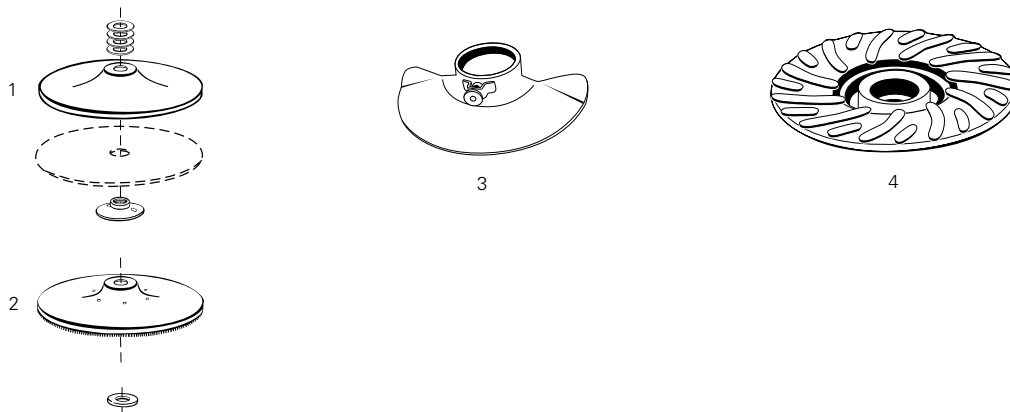
Backing pad not included



## 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
Hand shield for 125-180 mm (robust)	-	4150 1941 80	-	-

Dust extraction, see next page



## Productivity Kits

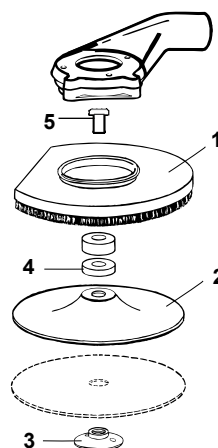
Model	Air inlet BSP	Economical air flow	Max hose, 5 m	Coupling	Lubrication	Ordering No.
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	3/8"	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 14
MIDI Optimizer F/RD EQ10-R13-W, incl. whip hose	-	21 l/s	Rubair 13 mm	ErgoQIC 10	Yes	8202 0850 15
MIDI Optimizer 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. 125-180 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	-	-	1
Backing pad 125 mm (incl. in kit)	3780 2710 30	-	-	2
Distance washer 12 mm (incl. in kit)	3780 2721 60	-	-	4
Nut 5/8" (incl. in kit)	3780 2722 00	-	-	3
<b>LSV28 ST12-13 125 mm - kit</b>	3780 4008 60	-	-	-
Suction cap 125 mm with brush (incl. in kit)	3780 2650 20	-	-	1
Backing pad 125 mm (incl. in kit)	3780 2710 30	-	-	2
Distance washer 9 mm (incl. in kit)	3780 2721 50	-	-	4
Adapter UNF 3/8" UNC 5/8" (incl. in kit)	4021 0457 00	-	-	5
Nut 5/8" (incl. in kit)	3780 2722 00	-	-	3
<b>LSV28 S040/S060 180 mm - kit</b>	3780 4007 90	-	-	-
Suction cap 180 mm with brush (incl. in kit)	3780 2675 00	-	-	1
Backing pad 180 mm (incl. in kit)	3780 2710 60	-	-	2
Distance washer 9 mm (incl. in kit)	3780 2721 50	-	-	4
Nut 5/8" (incl. in kit)	3780 2726 70	-	-	3
<b>LSV28 S021 180 mm - kit</b>	3780 4031 60	-	-	-
Suction cap 180 mm with brush (incl. in kit)	3780 2675 00	-	-	1
Backing pad (incl. in kit)	3780 2710 60	-	-	2
Distance washer 12 mm (incl. in kit)	3780 2721 60	-	-	4
Nut 5/8" (incl. in kit)	3780 2726 70	-	-	3
<b>LSV38 D066/D085 180 mm - kit</b>	-	3780 4008 84	-	-
Suction cap 180 mm with brush (incl. in kit)	-	3780 2675 00	-	1
Backing pad 180 mm (incl. in kit)	-	3780 2710 60	-	2
Nut 5/8" (incl. in kit)	-	3780 2726 70	-	3
Distance washer 9 mm (incl. in kit)	-	3780 2721 50	-	4
<b>LSV38 D085/D120 125 mm - kit</b>	-	3780 4008 85	-	-
Suction cap 125 mm with brush (incl. in kit)	-	3780 2650 20	-	1
Backing pad 125 mm (incl. in kit)	-	3780 2710 30	-	2
Nut 5/8" (incl. in kit)	-	3780 2726 70	-	3
Distance washer 9 mm (incl. in kit)	-	3780 2721 50	-	4
<b>LSS53 S060 180mm - kit</b>	-	-	3780 4011 00	-
Suction cap 180 mm with brush	-	-	3780 2675 00	1
Backing pad 180 mm (incl. in kit)	-	-	3780 2710 60	2
Nut 5/8" (incl. in kit)	-	-	3780 2726 70	3
Distance washer 12 mm (incl. in kit)	-	-	3780 2721 60	4

	Ordering No.
<b>Vacuum Hose, 1.8 m</b>	
Ø 25 mm for 125 m³/h suction requirement	3780 2724 20
Ø 32 mm for 200 m³/h suction requirement	3780 2724 31
Ø 38 mm for 250 m³/h suction requirement	3780 2724 40
<b>Brush for suction cap</b>	
Separate brush for cap Ø 125 mm (20 mm high)	3780 2678 00
Separate brush for cap Ø 180 mm (20 mm high)	3780 2677 50
Separate brush for cap Ø 180 mm (30 mm high)	3780 2677 30



# 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.
<b>Backing set for wet sanding</b>	
Ø 180 mm - 5/8" - foam rubber (max 2500 rpm)	4170 0428 83

# 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.



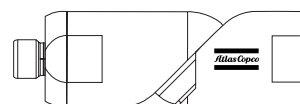
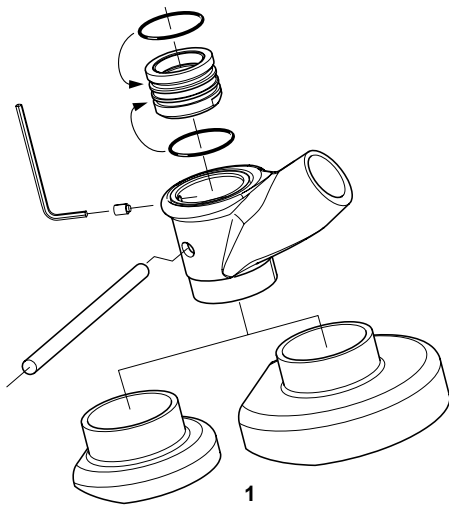
LSV12

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")	-	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



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# 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

	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

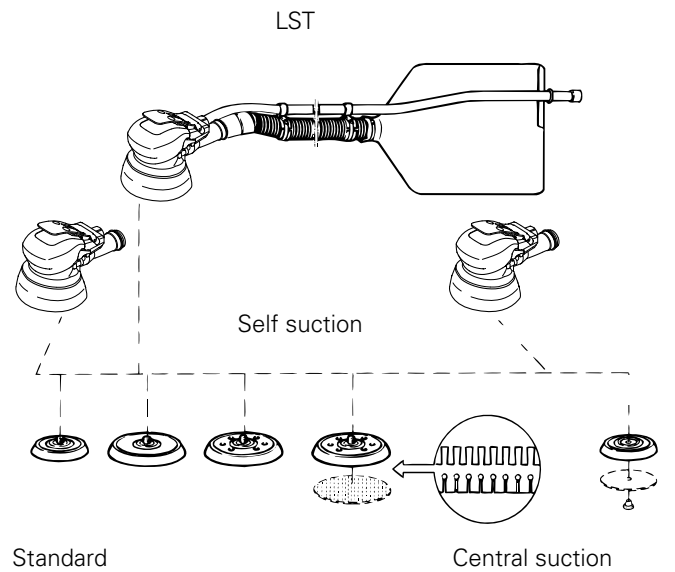
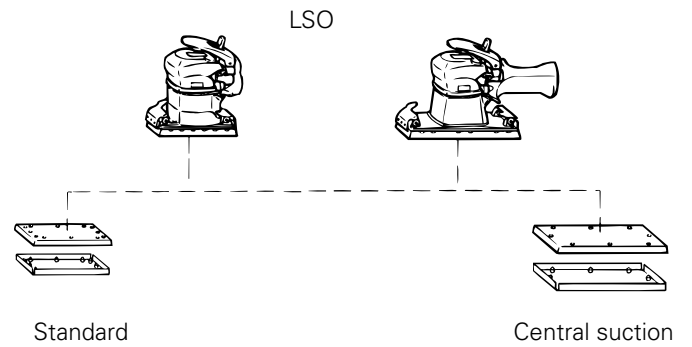
## LST30/31/32

	Ordering No.
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>

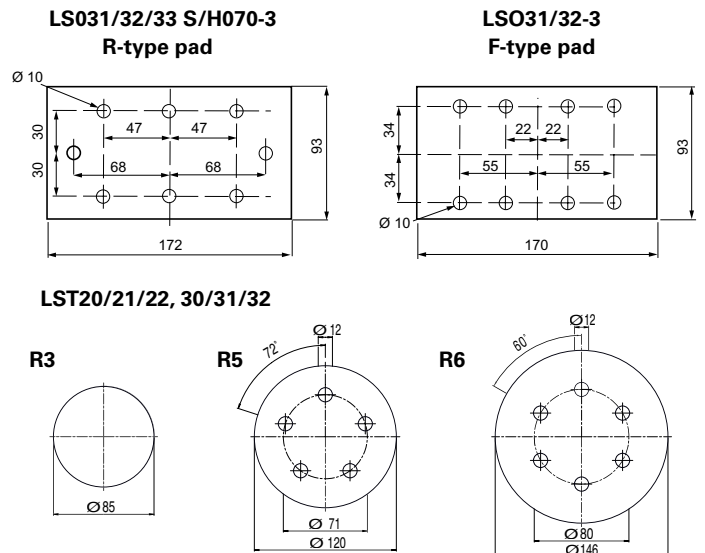
<sup>a</sup>LST30-15    <sup>b</sup>LST30    <sup>c</sup>LST31/32-150

## Productivity Kit

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



# 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 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 ST013	1300	0.68	180	UNC 5/8"	32	1.7	20	9.0	10	3/8"	8423 0126 26
LSV28 ST013-M14	1300	0.68	180	M14	32	1.7	20	9.0	10	3/8"	8423 0125 28
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 Kit

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





# Fine Cutting



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.

# 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	Diamond disc for fiber glass	18.0	44/60 (Grain)	75	12	3780 5073 00
	Diamond disc for fiber glass	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>				•

# 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.

**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.



RRC13B

RVM07B

RRC13N



P2505

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
P2505	190	-	-	175	0.12	0.6	3.2	1/8"	8425 0102 72

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



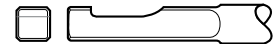
# Accessories

## For RRC13, 13B, P2505

RRC13 / RRC13B	Ordering No.
RRC13 / RRC13B	
Hand guard	3510 0246 90
<b>P2505</b>	
Needle and small parts kit	4081 0068 90

## 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

# 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>			•	•	

# 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	Bushing 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
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

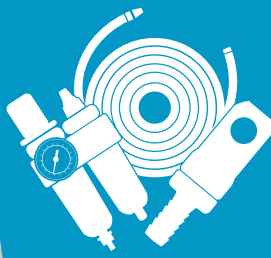
Model	Ordering No.
<b>Power regulator</b>	
RRF21 and -31	3512 0273 80
<b>Retainer, open type</b>	
RRF21	3512 0290 90
RRF31	3512 0305 90
<b>Retainer closed type</b>	
RRF 21	3512 0289 90
RRF 31	3512 0304 90
<b>Protective cover</b>	
RRF21	3512 0349 81
RRF31	3512 0349 82

Protective cover



Retainer, open type





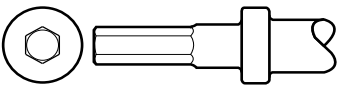
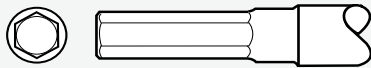
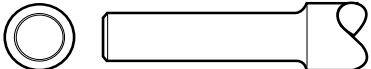
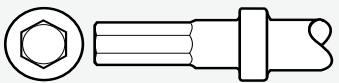

### NEED BETTER AIR FLOW?

Check out our full range of Air Line accessories in chapter Air Line Installation.

# 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

**Table 1**

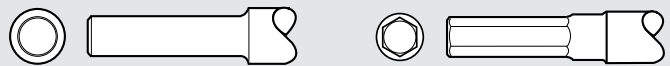
**A. Chisels with square shank 13.0 mm**  
**B. Chisels with square shank ISO 12.7 mm**



Chisel type	Designation	Width		Length		Hex ISO 12.7 mm (1/2") Ordering No.	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	

**Table 2**

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



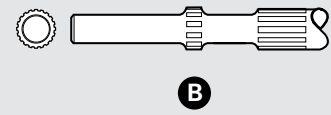
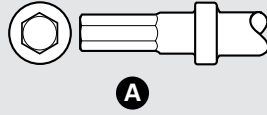
Chisel type	Designation	Width		Length		Round 17.3 mm (0.68") ISO Ordering No.	Hexagon 17.3 mm (0.68") ISO Ordering No.
		mm	in	mm	in		
	Chisel blank	23	0.91	200	7.9	3085 0150 00	
		23	0.91	560	22.0		3085 0140 01
	Flat chisel	23	0.91	225	8.9	3085 0225 00	3085 0224 00

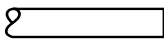
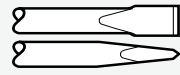
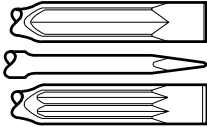

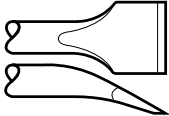

# Chisels

**Table 3**

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

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



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					





# 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.

## LBB features



## 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



LBB45



LBB37



LBB26



LBB36

Atlas Copco **LBB drills** are ergonomically designed and equipped with rubber pistol grip handles to reduce vibration and temperature differences.

Regardless of which model you choose, you'll get a product with superior ergonomics and productivity.

- Quiet – Very low noise level.
- Comfortable grip – For high precision.
- Two-hand grip available – Gives even greater flexibility.
- Lubrication-free – For clean working environment and operator comfort.

## Accessories

Model	Free speed r/min	Chuck capacity mm	Weight with chuck		Air consumption at free speed		Hose size		Air inlet thread		Stall torque			Without chuck	
			kg	lb	l/s	cfm	mm	in	BSP	W	hp	Nm	With chuck Ordering No.	Model	Ordering No.
LBB26 EPX-003 b	300	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	53.5	8421 0500 00	003-U	8421 0500 01
LBB26 EPX-005 b	500	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	31.6	8421 0500 02	005-U	8421 0500 03
LBB26 EPX-007 b	700	13	0.82	1.8	14.5	31.8	10.0	3/8	1/4	500	0.7	24.6	8421 0500 04	007-U	8421 0500 05
LBB26 EPX-013 ab	1300	10	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	14.7	8421 0500 06	013-U	8421 0500 07
LBB26 EPX-019 a	1900	10	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	9.9	8421 0500 24	019-U	8421 0500 25
LBB26 EPX-026 a	2600	8	0.79	1.7	14.5	31.8	10.0	3/8	1/4	500	0.7	7.7	8421 0500 08	026-U	8421 0500 09
LBB26 EPX-033 a	3300	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	5.7	8421 0500 10	033-U	8421 0500 11
LBB26 EPX-045 a	4500	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	4.1	8421 0500 12	045-U	8421 0500 13
LBB26 EPX-060 a	6000	8	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	3.3	8421 0500 14	060-U	8421 0500 15
LBB26 EPX-200 a	22000	6.5	0.69	1.5	14.5	31.8	10.0	3/8	1/4	500	0.7	0.8	8421 0500 28	200-U	8421 0500 29
LBB36 H005 b	500	–	1.2	3.3	16.5	34.9	10	3/8	3/8	700	0.9	43.8	–	-H005U	8421 0408 03
LBB36 H007 b	700	13	1.6	3.5	16.5	34.9	10	3/8	3/8	700	0.9	37.2	8421 0408 07	-H007U	8421 0408 05
LBB36 H013 a	1300	10	1.5	3.3	16.5	34.9	10.0	3/8	3/8	700	0.9	19.5	8421 0408 15	-H013U	8421 0408 13
LBB36 H026 a	2600	10	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	10.3	8421 0408 33	-H026U	8421 0408 31
LBB36 H033 a	3300	10	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	8.6	8421 0408 41	-H033U	8421 0408 39
LBB36 H060 a	6000	6.5	1.2	2.5	16.5	34.9	10.0	3/8	3/8	700	0.9	5.0	8421 0408 49	-H060U	8421 0408 47
LBB36 H200 a	22000	6.5	1.0	2.2	16.5	34.9	10.0	3/8	3/8	700	0.9	1.3	8421 0408 55	-H200U	8421 0408 53
LBB37 H006	600	13	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	48.0	8421 0608 06	-H006U	8421 0608 14
LBB37 H015	1500	10	1.5	3.3	20.5	44.0	10.0	3/8	3/8	820	1.1	22.5	8421 0608 05	-H015U	8421 0608 15
LBB37 H037	3700	10	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	9.2	8421 0608 13	-H037U	8421 0608 16
LBB37 H065	6500	6.5	1.2	2.5	20.5	44.0	10.0	3/8	3/8	820	1.1	5.0	8421 0608 11	-H065U	8421 0608 17
LBB37 H230	23000	6.5	1.0	2.2	20.5	44.0	10.0	3/8	3/8	820	1.1	1.3	8421 0608 03	-H230U	8421 0608 18
LBB45 H004 b	400	16	4.3	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	–	8421 0501 16	–	–
LBB45 H006 b	600	16	4.3	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	–	8421 0501 24	-H006U	8421 0501 40
LBB45 H017 b	1700	16	4.2	9.3	10.0	21.0	10.0	3/8	1/4	700	0.9	–	8421 0501 32	–	–

# Accessories

## Key chucks

Mount	Check clic mm	Chuck capacity mm	Ordering No.		
			Chuck (key incl)	Key only	Key designation
1/2-20UNF	4	2.0-13.0	4021 0289 01	4021 0465 00	S2
3/8-24UNF	30	0.0- 6.5	4021 0283 00	4021 0293 00	S1
3/8-24UNF	30	0.5- 8.0	4021 0495 00	4021 0293 00	S1
3/8-24UNF	36	2.0-10.0	4021 0416 00	4021 0449 00	S8
3/8-24UNF	46	2.0-13.0	4021 0289 00	4021 0465 00	S2
JT3	59	3.0-16.0	4021 0423 00	4021 0301 00	S3



Key chuck

## 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

## Power feed arm for extra feed force - LBB36 H005 AND LBB37 H006

Model	Ordering No.
Adapter piece (SR295), lever arm (SR201), chain (SR202) and NO. 2 Morse socket (SR206)	4110 1416 80
Two extension pieces (SR204-1 and SR204-2), 370 and 750 mm long	4110 1417 80
No. 2 Morse socket	4110 1416 01



Power feed arm

## Chuck guards

For model	Max chuck dia mm	Ordering No.
LBB26	36	4110 1728 02
LBB26	30	4110 1728 03
LBB36 a	36	4110 1415 00
LBB37 a	36	4110 1415 00

\*The chuck guards do not fit the 500 r/min, 600 r/min or 700 r/min models.



Chuck guard

## Support handles

For model	Ordering No.
LBB26	4110 1355 95
LBB36/37	4110 1355 82
LBB45	4110 1355 84



Support handle

# Productivity Kit

Model	Max air flow	Hose 5 m	Coupling	Lubrication	Ordering No.
<b>For drills with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ08-C08	9 l/s	Cablair 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	9 l/s	Cablair 8 mm	ErgoQIC 08	No	8202 0850 01
<b>For drills with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
<b>For drills with 3/8" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
<b>For drills with 1/4" BSP air inlet</b>					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11

# Drills

## tappers



Atlas Copco **TAPPERS** are designed for tapping and thread-cleaning operations with thread taps. The tools are fitted with a tap chuck as standard.

- Comfortable and effective – The ergonomically designed handle gives a comfortable grip and maximum performance.
- Higher productivity – Double speed when you withdraw the machine.
- Low noise level – Rear-directed exhaust gives a lower noise level.
- Lubrication-free – For a clean working environment and operator comfort.
- Quick change system – Upgrade your old tool, or order a new one with this system. Various tap holders can be used to change a broken tap or to change to a different tap size.
- Lower cost – The efficient air motor, together with interchangeable components from our standard drills, cut your costs.

Model	Free speed		Tapping capacity mm	Weight		Hose dimension		Air inlet thread BSP	Air consumption		With chuck Ordering No.
	Forward r/min	Reverse r/min		kg	lb	mm	in		l/s	cfm	
<b>Pistol-grip tappers with air supply through handle</b>											
LGB34 H007	700	1400	10	1.8	4.0	10.0	3/8	1/4	7.5	15.9	8421 0311 66
LGB34 H007Q <sup>a</sup>	700	1400	10	1.8	4.0	10.0	3/8	1/4	7.5	15.9	8421 0311 76
LGB36 H007Q <sup>a</sup>	700	1400	12	2.0	4.4	10.0	3/8	3/8	16.5	34.9	8421 0411 00
<b>Straight tappers</b>											
LGB34 S007	700	1400	10	1.8	4.0	10.0	3/8	1/4	7.5	15.9	8421 0311 72

<sup>a</sup> Quick change system.

Taper: Jacob 1

## Accessories Included

### Non Quick change system

LGB34 Chuck complete with collet 6.4-10 mm 4021 0469 00

### Quick change system

Chuck plus one tap holder with collet for M6 shank Ø 6.3 mm.

## Optional Accessories

### Collets for non Quick change system

Model	Capacity		Ordering No.
	mm	inch	
LGB34	3.5 - 6.5	0.139 - 0.257	4021 0337 00
	4.5 - 8.1	0.176 - 0.320	4021 0336 00
	6.4 - 9.7	0.253 - 0.383	4021 0456 00

### Completing existing equipment with Quick change system

Accessories	Length mm	Ordering No.
Quick change chuck	47	4021 0406 90
Tap holder	58	4021 0408 00

### Collets for Quick change system

Collets for tap size mm	Shank dia		Ordering No.
	mm	in	
M2.2/M2.5	2.8		4021 0414 01
M3	3.15	1/8	4021 0414 02
M3.5	3.5		4021 0414 03
M4	4.0		4021 0414 04
M4.5	4.5		4021 0414 05
M5	5.0	3/16	4021 0414 06
M5.5	5.6	7/32	4021 0414 07
M6	6.4	1/4	4021 0414 08
M6 (DIN)	6.0		4021 0414 13
M7	7.1	9/32	4021 0414 09
M8/M11	8.0	5/16 & 7/16	4021 0414 10
M9/M12	9.0	1/2	4021 0414 11
M10	10.0	3/8	4021 0414 12

# Drills

## screw-feed drills

Atlas Copco **SCREW-FEED DRILLS** are ideal for heavy-duty drilling operations requiring high feed forces. They can also be used for reaming and tube-rolling.

- Reliable – Simple, reliable design.
- Constant speed – The speed governor keeps the drilling speed constant and reduces air consumption as power is reduced.
- Safer – The safety catch prevents accidental starting. The throttle is also self-closing.



Model	Forward	Reverse
RAB9	0.85 kW (1.14 hp)	0.55 kW (0.74 hp)
RAB12	1.5 kW (2.0 hp)	1.1 kW (1.5 hp)

Model	Free speed r/min	Capacity			Morse taper No.	Length feed mm	Height		Weight		Hose dimension		Air consumption max output		Distance centre to side mm	Air inlet thread BSP	Ordering No.
		Drill- ing mm	Ream- ing mm	Tapp- ing mm			mm	in	kg	lb	mm	in	l/s	cfm			
RAB9 VR003	300	23	23	16	2	75	265	10.4	9.5	20.9	13	1/2	22	47	40	1/2	8421 5109 37
RAB9 VR006	600	23	23	12	2	75	265	10.4	9.5	20.9	13	1/2	23	49	40	1/2	8421 5109 45
RAB12 L150	140	51	40	32	4	90	385	15.2	14.9	32.8	16	5/8	30	64	50	1/2	8421 5112 08
RAB12 L250	240	51	40	30	4	90	385	13.2	14.9	32.8	16	5/8	33	70	50	1/2	8421 5112 16
RAB12 L450	475	32	32	24	3	90	340	13.4	12.9	28.4	16	5/8	32	68	50	1/2	8421 5112 24

## Accessories Included

Hose fitting/air chuck

## Optional Accessories

### Square drive adapter

Morse taper No.	Square drive in	Ordering No.
3	1	4021 0394 00
4	1	4021 0395 00



Square drive adapter

# 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.

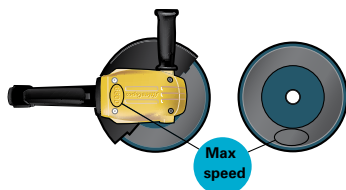
Check that the trigger is working correctly.

- 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.

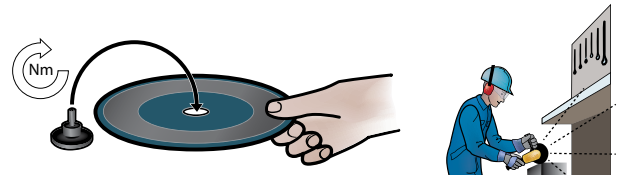
- The grinding wheel should have the correct hole dimensions and be fitted correctly on the spindle to avoid unbalanced vibrations.
- Damaged grinding wheels must be removed and replaced immediately.
- Do not use dropped or damaged wheels, as these can cause serious injuries.



### 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:

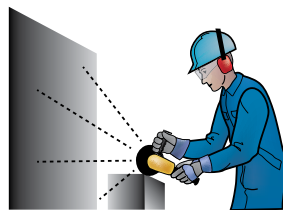
- Eye protection, goggles or a visor.
- Ear protection.
- Gloves.
- Steel toe-capped shoes.
- Protective clothing, such as a leather apron.
- A helmet (for heavier applications).
- Avoid loosely hanging clothing, hair, jewellery (risk of getting caught).



## 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***

## ***CONTENT***

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# 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's 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 wrenches



LMS58 HR25



LMS18 HR13



LMS38 HR13

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.

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

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

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
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

<sup>a</sup> Female hex. quick change chuck.  
GOR = Outside trigger.

GIR = Inside trigger.  
Torque measured from Skidmore with fixed sensors

## Accessories

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

Suspension yoke included LMS08-58

## Service Kits

	Ordering No.
LMS08	4081 0465 90
LMS18	4081 0466 90
LMS28	4081 0467 90
LMS38	4081 0468 90
LMS48	4081 0461 90
LMS58	4081 0445 90
LMS68	4081 0442 90
LMS88	4081 0443 90



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# 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 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 H900-25	M24	1"	900	500	260	4.5	282	20	13	3/8"	5	8431 0803 47
<b>Reversible</b>												
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 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.

## Accessories Included

FOR LMP24	FOR LMP61/LTP61	FOR LTP61 HR1900/2800/3800
Suspension yoke	Suspension yoke	Suspension yoke
Reaction bar	Protective cover	Protective cover
		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	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>												
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
<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.

# Productivity Kits

Model	Economical flow	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
<b>For small nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
<b>For small nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ08-C10	13 l/s	16 l/s	Cablair 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 nutrunners with 3/8" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13	21 l/s	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
<b>For nutrunners with 1/4" BSP air inlet</b>						
MIDI Optimizer F/RD EQ10-C13-1/4	27 l/s	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11
<b>For 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 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

# Accessories

## For LMP24

Model	Ordering No.
Hose nipple	9000 0247 00
Swivel attachment	4210 2249 80
Exhaust hose	4210 2053 00
Support handle	4110 1355 82
(for H/HR002 only)	
Spindle extension	
115 mm x 1/2"	4210 2154 80
(for H/HR002 only)	
50 mm x 3/8"	4210 2158 80
(for H/HR011/005 only)	
1/4" hex bit holder	4021 0443 00
(for H/HR011/005 only)	
1/2" square adapter	4210 2157 80
(for H/HR011/005 only)	

## For LMP/LTP61

Model	Ordering No.
Hose nipple	9000 0242 00
Exhaust hose	4210 2201 00
Protective cover	
Standard LTP61	4210 4672 00
LTP 61 with MT unit	4210 4672 01
Multi torque selector LTP61	4210 4636 95
Quick change retainer	
– 1/2" square models	4250 1190 00
– 3/4" square models	4210 3476 80
– 1" square models	4210 3524 80
Shut-off override for LTP61	4210 3545 80
Swivelling type MultiFlex connector 3/8" (BSP)	8202 1350 22
Swivelling type MultiFlex connector 3/8" (NPT)	8202 1350 28

## Swivelling suspension yoke LMP/LTP61

Model	Ordering No.
<b>Mounting dia Ø 54 mm</b>	
PH/H 100-13	4210 3088 80
PH/H 170-13	
PH/H 230-19	
PH/H 350-20	
PH/H 500-20	
PH/H 700-25	
PH/H 900-25	
<b>Mounting dia Ø 60 mm</b>	
HR 100-13	4210 3088 84
HR 170-13	
HR 230-19	
<b>Mounting dia Ø 63.5 mm</b>	
H 1900-38	4210 3088 83
H 2800-38	
H 3800-38	
<b>Mounting dia Ø 67 mm</b>	
HR 350-20	4210 3088 82
HR 500-20	
PHR/HR 700-25	
PHR/HR 900-25	
HR 1900-38	4210 3088 85
HR 2800-38	
HR 3800-38	
<b>Mounting dia Ø 83.5</b>	
PH/H 1500-25	4210 3088 81
PHR/HR 1500-25	

## Reaction bars LMP/LTP61

Spline dia mm	Square drive size mm/in	CC distance mm	Ordering No.
<b>Steel bar</b>			
Spline 1	268/36/18		4210 1798 01
Spline 2	270/35/10		4220 1903 00
Spline 3	400/56/12		4210 2219 80
Spline 4	500/62/15		4210 2183 80
Spline 5	500/62/15		4210 2726 80
Spline 6	560/80/15		4220 1200 01
Spline 8	500/150/20		4210 3899 03
Spline 9	500/85/20		4210 3899 80
<b>Square steel bracket</b>			
Spline 3	100/50/12		4210 2219 03
Spline 4	125/65/16		4210 2183 01
Spline 5	125/65/16		4210 2726 01
Spline 6	200/100/15		4220 1200 00
Spline 7	250/150/20		4220 1445 00
Spline 8	250/160/20		4220 1972 91
Spline 9	150/85/20		4210 3899 01
<b>Triangular steel bracket</b>			
Spline 2	73/72/14		4220 2137 02
Spline 3	82/80/15		4220 2137 03
Spline 6	112/109/15		4220 2137 06
Spline 6	150/145/20		4220 2137 16
<b>Sliding drive reaction bar</b>			
Spline 3	1/2	70-120	4210 4481 83
Spline 3	3/4	70-120	4210 4481 63
Spline 3	1/2	82-218	4210 4616 83
Spline 3	3/4	82-218	4210 4616 63
Spline 4	3/4	76-126	4210 4481 84
Spline 4	3/4	82-218	4210 4616 84
Spline 5	1	80-125	4210 4481 85
Spline 5	1	82-218	4210 4616 85
Spline 9	1	80-130	4210 4481 89
Spline 9	1	80-280	4210 4616 89
<b>S-Type reaction bar</b>			
Spline 3	110/18/12		4210 4480 03
Spline 4	120/22/15		4210 4480 04
Spline 5	130/25/15		4210 4480 05
Spline 6	125/25/15		4210 4480 06
Spline 8	200/65/20		4210 4480 08
Spline 9	160/40/20		4210 4480 09
<b>L-Type aluminum bar</b>			
Spline 3	266x300/29/15		4210 2219 08
Spline 4	144x150/42/15		4210 2183 08
<b>Straight aluminum bar</b>			
Spline 3	L = 400		4210 2219 01
<b>Extended sliding drive reaction bar</b>			
Spline 5	1	68-112	4210 4498 80
<b>Extended sliding tube reaction bar</b>			
Spline 5	1	68-112	4210 4498 82
<b>Bracket stepped</b>			
Spline 1	70/36/13		4210 1798 02
Spline 2	70/41/14		4210 2134 02

## Service Kits

Model	Trigger kit	General service kit
LMP24	4210 1934 91	4081 0105 90
LMP/LTP61	4210 2190 91	4081 0397 90

# RTP

pneumatic nutrunners



The light weight of the **RTP NUTRUNNER** will surprise you, yet its high speed motor has the power you need to tighten big bolts. A robust, lightweight reaction bar absorbs the torque. Noise and vibration levels are lower than in traditional impact wrenches.

Among the smallest on the market, the RTP's slim gearpack gives you effortless access to bolts in cramped spaces. Tightening accuracy and repeatability are high.

Plug & play! Simply connect the RTP to your air line and start working with it. The torque output of the RTP is adjusted with an Atlas Copco FRL air pressure unit, helping to prolong the lifetime and torque accuracy of the tool. The tool's exchangeable drive simplifies maintenance and cuts repair costs.

## RTP nutrunner Kit

Model	Bolt size mm	Square drive in	Min torque at 1,5 bar Nm	Max torque at 6.3 bar Nm	Free speed r/min	Weight <sup>a</sup> kg	Length mm	CS distance mm	Air consumption at free speed l/s	Rec. hose size mm	Air inlet thread in	Ordering No.
RTP1300-HR20	20-27	3/4	320	1300	20	3.7	248	32	23	13	3/8	8431 1013 10
RTP2600-HR25	20-36	1	700	2600	10	5	300	34	23	13	3/8	8431 1026 10
RTP4100-HR25	30-45	1	1000	4100	10	8.7	335	41	31	13	3/8	8431 1040 10
RTP8100-GIR38	33-52	1 1/2	2200	8100	10	13.5	444	51	50	13	1/2	8431 1081 10

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

**NOTE:** For all models in the table declared noise and vibration emissions according to ISO 28927-2 and ISO 15744. Sound pressure level for RTP1300 HR20 is 90 dB(A), RTP2600-HR25 90 dB(A), RTP4100-HR25 90 dB(A), RTP8100-GIR38 99 dB(A) and vibration value for all models are <2.5 m/s<sup>2</sup>.

## Accessories Included

Model	Description	Ordering No.
RTP1300	Reaction bar, S-type	4210 4480 90
RTP2600	Reaction bar, S-type	4210 4480 94
RTP4100	Reaction bar, S-type	4210 4480 93
RTP8100	Reaction bar, S-type	4210 4480 92
RTP1300 / 2600 / 4100	Nipple, ErgoNIP 10. M10, BSP	8202 1220 19
RTP8100	Nipple, ErgoNIP 10. M15, BSP	8002 1220 27
RTP1300 / 2600 / 4100	Productivity kit FRL stand, BSP <sup>o</sup>	9090 3030 02
RTP8100	Productivity kit FRL stand, BSP <sup>o</sup>	9090 3030 04

<sup>o</sup> Hose included



## Optional Accessories

Model	Description	Ordering No.
RTP1300 / 2600 / 4100	MultiFlex swivel 3/8 BSP	8202 1350 22
RTP8100	MultiFlex swivel 1/2 BSP	8202 1350 24
RTP1300 / 2600 / 4100	Trigger guard	4210 4759 90
RTP1300	Suspension yoke	4210 3088 83
RTP2600	Suspension yoke	4210 3088 82
RTP4100	Suspension yoke	4210 3088 81
RTP8100	Suspension yoke	4210 4780 90
RTP1300	Reaction bar, sliding-drive	4210 4752 90
RTP1300	Reaction bar, steel bar	4210 4757 90
RTP1300	Reaction bar, square bracket	4210 4758 90
RTP2600	Reaction bar, sliding-drive	4210 4752 93
RTP2600	Reaction bar, steel bar	4210 4757 93
RTP2600	Reaction bar, square bracket	4210 4758 93
RTP4100	Reaction bar, sliding-drive	4210 4752 91
RTP4100	Reaction bar, steel bar	4210 4757 91
RTP4100	Reaction bar, square bracket	4210 4758 91
RTP8100	Reaction bar, sliding-drive	4210 4752 92
RTP8100	Reaction bar, steel bar	4210 4757 92
RTP8100	Reaction bar, square bracket	4210 4758 92

**NOTE:** All reaction bars includes a snap ring



## Service Kits

Model	Description	Ordering No.
RTP1300	Small parts kit	4082 0125 90
RTP2600	Small parts kit	4082 0148 90
RTP4100	Small parts kit	4082 0116 91
RTP8100	Small parts kit	4082 0126 90
RTP1300	Service kit	4081 0510 90
RTP2600	Service kit	4081 0510 90
RTP4100	Service kit	4081 0504 90
RTP8100	Service kit	4081 0511 90



# Hydraulic Wrenches



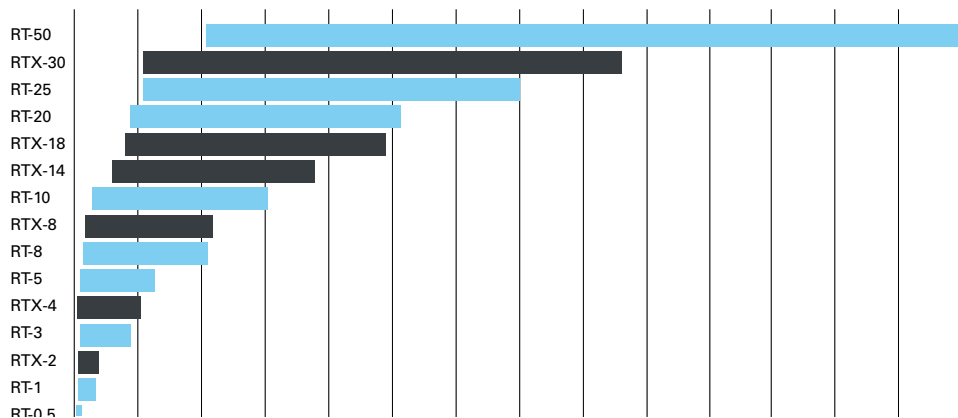


When designing Atlas Copco Rapid-Torc® hydraulic wrenches for very high torque applications, such as torquing flanges, the vision was to build tools that could be relied upon to achieve safe connections in some of the world's most critical applications. From design to manufacturing and calibration, Atlas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

### TORQUE CHART

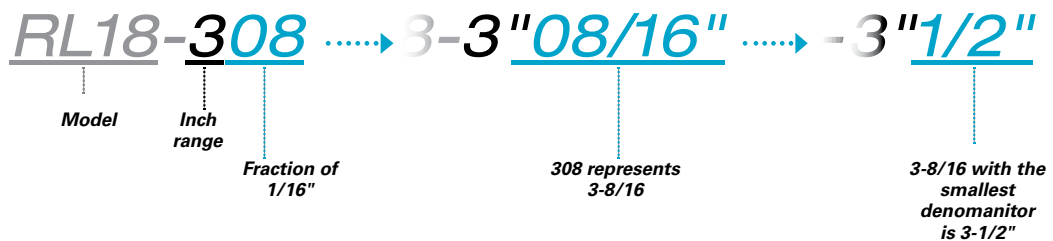
The torque is important to ensure the required clamping force is applied. The chart shows the tightening torque range for the different models in the hydraulic torque wrench product portfolio.

### Selection Guide



### HOW TO SELECT THE LINK SIZE

Sizes are expressed as MM for metric while imperial have a 3 digit designation.

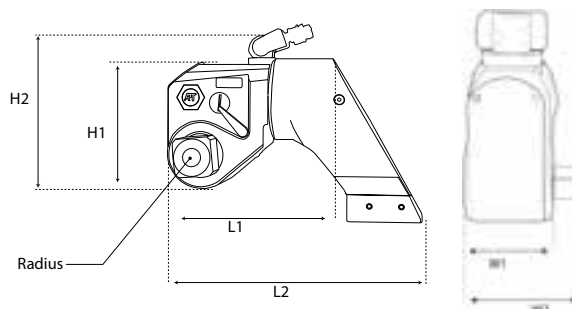


First number indicates inch, and the following two numbers indicate an increment of 1/16". For example: RL 18-308 would be a link that is 3-8/16, with 8/16 being 1/2. Another example, RL04-105 would be a 1-5/16" link. When the link size in metric and imperial are the same size, it is listed together. For example: RL 14-104/32MM would be a link for a nut that is 1-1/4 (4/16 being 1/4) but would also be used for a 32MM nut.

# 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  $\pm 3\%$  (as per NIST standards).



Square Drive hydraulic torque wrench dimensions

Model	Dimensions						
	L1	L2	H1	H2	Radius	W1	W2
	mm	mm	mm	mm	mm	mm	mm
RT-0.5	81	125	60.5	93	13.5	33.5	50.5
RT-1	120	183	90.5	122	23	50	71
RT-3	155	237	120	156	33	66.5	95.5
RT-5	185	288	144.5	181	37	80	126
RT-8	202	321	164.6	213.36	41	88	126
RT-10	232	357	186	239	48	100	142.5
RT-20	259	420	216	251	55.1	119	170
RT-25	310	473	234	282	61	134	191
RT-50	390	615	294	344	79	167	228

Model	Torque		Weight	Ordering No.
	min	max		
	Nm	Nm	kg	
RT-0.5	75	538	0.4	8434 2010 00
RT-1	271	1817	1.9	8434 2010 02
RT-3	651	4379	3.9	8434 2010 05
RT-5	1132	7578	7.5	8434 2010 09
RT-8	1627	10845	11.5	8434 2010 13
RT-10	2379	15617	13.4	8434 2010 16
RT-20	4013	26787	18	8434 2010 20
RT-25	5368	35096	31	8434 2010 25
RT-50	10675	71169	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-18MM	18 mm	8434 2138 59
RT0.5-HX-19MM	19 mm	8434 2138 62
RT0.5-HX-20MM	20 mm	8434 2138 65
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-20MM	20 mm	8434 2057 00
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
RT03HX-100	1"	8434 2057 20
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

EXT - Extended

## 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

## Insert Bits

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

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

## Sliding Reaction Arm

Description	Ordering No.
RT-01 SLIDING EXT	8434 2057 33
RT-01 SLIDING STD	8434 2150 95
RT-03 SLIDING EXT	8434 2150 37
RT-03 SLIDING STD	8434 2150 30
RT-05 SLIDING EXT	8434 2150 36
RT-05 SLIDING STD	8434 2150 35
RT-08 SLIDING EXT	8434 2150 32
RT-08 SLIDING STD	8434 2150 31
RT-10 SLIDING EXT	8434 2150 34
RT-10 SLIDING STD	8434 2150 33

STD= Standard EXT=Extended

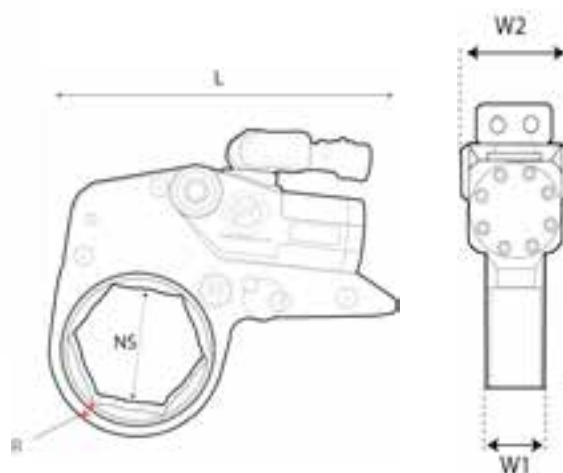


Sliding Reaction Arm

# 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% (as per NIST standards).



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	3/4 – 2 9/16	19-65	0.35	9	1.26	32	1.92	49
RTX-4	9.7	248	1 5/16 – 3 1/8	32-80	0.47	12	1.65	42	2.56	65
RTX-8	12.1	308	1 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 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	3/4 – 2 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 1/2 – 5 3/8	60-135	2010-13400	2725-18165	33	15	8434 2116 58
RTX-18	3 1/2 – 5 1/2	75-140	2676-17845	3628-24191	51	23	8434 2022 05
RTX-30	3 1/2 – 6 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.  
#Please contact local sales office for appropriate selection of tools and application fit.

## RTX-02 Direct fit ratchet link sizes, torque range of 346 – 2318 Nm

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

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
	17	RL02-17MM	8434 2132 41		34	RL02-34	8434 2132 81	2"	50.799	RL02-200 RR	8434 2021 74
3/4"	19.05	RL02-012/19MMRR	8434 2132 47	1 3/8"	34.924	RL02-106	8434 2132 17	2 1/16"	52.386	RL02-201	8434 2132 53
3/4"	19.05	RL02-012/19MM	8434 2131 84	1 7/16"	36.511	RL02-107/36MM	8434 2021 68	2 1/8"	53.974	RL02-202	8434 2132 56
13/16"	20.637	RL02-013	8434 2131 87	1 7/16"	36.511	RL02-107/36MMRR	8434 2021 83	2 3/16"	55.561	RL02-203/55MM	8434 2132 59
	22	RL02-22MM	8434 2132 74	1 1/2"	38	RL02-108/38MM	8434 2132 20	2 1/4"	57.149	RL02-204	8434 2132 62
7/8"	22.224	RL02-014	8434 2020 00	1 9/16"	39.686	RL02-109	8434 2132 23		58	RL02-58MM	8434 2132 89
15/16"	23.812	RL02-015	8434 2131 90	1 5/8"	41.274	RL02-110/41MM	8434 2021 07	2 5/16"	58.736	RL02-205	8434 2132 65
	24	RL02-24MM	8434 2020 54	1 5/8"	41.274	RL02-110/41MMRR	8434 2021 08	2 3/8"	60.324	RL02-206/60MM	8434 2021 47
1"	25.339	RL02-100/25MM	8434 2020 03	1 11/16"	43	RL02-111/43MM	8434 2132 26	2 7/16"	61.911	RL02-207	8434 2132 68
1"	25.339	RL02-100/25MM12PT	8434 2131 93	1 3/4"	44.449	RL02-112	8434 2132 29	2 1/2"	63.498	RL02-208	8434 2132 71
1 1/16"	27	RL02-101/27MM	8434 2131 96	1 13/16"	46	RL02-113/46MM	8434 2132 32	2 9/16"	65	RL02-209/65MM	8434 2021 50
1 1/8"	28.574	RL02-102	8434 2131 99	1 13/16"	46	RL02-113/46MMRR	8434 2132 35	2 5/8"	66.673	RL02-210	8434 2021 51
1 1/8"	28.574	RL02-102 12PT	8434 2132 02	1 7/8"	47.624	RL02-114	8434 2020 06	2 3/4"	69.848	RL02-212	8434 2021 59
1 3/16"	30.162	RL02-103/30MM	8434 2132 05	1 15/16"	49.211	RL02-115	8434 2132 38		70	RL02-212/70MM	8434 2059 29
1 1/4"	31.74	RL02-104/32MM12PT	8434 2132 11		50	RL02-50MM	8434 2021 86	2 13/16"	71.436	RL02-213 13/16	8434 2021 60
	32	RL02-104/32MM	8434 2132 08	2"	50.799	RL02-200	8434 2132 50	2 15/16"	75	RL02-215/75MM	8434 2132 92
1 5/16"	33.336	RL02-105	8434 2132 14								

## RTX-04 Direct fit ratchet link sizes, torque range of 786 – 5226 Nm

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

### Links for RTX-04

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
	15	RL04-15MM	8434 2133 47	1 13/16"	46	RL04-113/46MM	8434 2021 53	2 9/16"	65	RL04-209/65MM	8434 2133 70
	17	RL04-17MM	8434 2133 48	1 13/16"	46	RL04-113/46MMRR	8434 2116 01	2 5/8"	66.673	RL04-210	8434 2133 73
7/8"	22.224	RL04-014/22MM	8434 2133 19	1 7/8"	47.624	RL04-114	8434 2133 43	2 11/16"	68.261	RL04-211	8434 2133 76
	24	RL04-24MM	8434 2133 93		48	RL04-48MM	8434 2134 27	2 3/4"	69.848	RL04-212/70MMRR	8434 2133 82
1"	25.339	RL04-100/25MM	8434 2133 22	1 15/16"	49.211	RL04-115	8434 2133 46		70	RL04-212/70MM	8434 2021 62
	27	RL04-101/27MM	8434 2020 63		50	RL04-50MM	8434 2134 30		71	RL04-71MM	8434 2021 63
1 1/8"	28.574	RL04-102	8434 2133 23	2"	50.799	RL04-200	8434 2133 49	2 13/16"	71.436	RL04-213	8434 2133 85
1 3/16"	30.162	RL04-103/30MM	8434 2133 25	2 1/16"	52.386	RL04-201	8434 2133 52	2 7/8"	73.024	RL04-214	8434 2133 88
	32	RL04-104/32MM	8434 2020 15	2 1/8"	53.974	RL04-202	8434 2133 55	2 15/16"	75	RL04-215/75MM	8434 2020 21
	32	RL04-104/32MM12PT	8434 2134 15		54	RL04-54MM	8434 2134 33	3"	76.199	RL04-300	8434 2134 00
1 5/16"	33.336	RL04-105	8434 2133 32		55	RL04-55MM RR	8434 2134 39		77	RL04-77MM	8434 2020 22
1 3/8"	34.924	RL04-106	8434 2133 34	2 3/16"	55.561	RL04-203/55MM	8434 2021 71	3 1/16"	77.788	RL04-301	8434 2134 03
1 7/16"	36.511	RL04-107/36MM	8434 2020 09	2 1/4"	57.149	RL04-204	8434 2133 58	3 1/8"	79.373	RL04-302/79MM	8434 2134 06
1 1/2"	38	RL04-108/38MM12PT	8434 2133 37		58	RL04-58MM	8434 2134 42		80	RL04-80MM	8434 2134 51
1 1/2"	38	RL04-108/38MM	8434 2133 40	2 5/16"	58.736	RL04-205	8434 2133 61	3 3/16"	80.96	RL04-303	8434 2134 07
1 9/16"	39.686	RL04-109	8434 2133 41	2 3/8"	60.324	RL04-206/60MM	8434 2133 64		85	RL04-85MM	8434 2134 54
1 5/8"	41.274	RL04-110/41MM	8434 2021 35	2 7/16"	61.911	RL04-207	8434 2133 65	3 3/8"	85.725	RL04-306	8434 2134 08
	42	RL04-42MM	8434 2134 24	2 1/2"	63.498	RL04-208	8434 2133 67	3 1/2"	88.9	RL04-308	8434 2134 09
1 11/16"	43	RL04-111/43MM	8434 2020 12		64	RL04-64MM	8434 2134 46	3 3/4"	95	RL04-312/95MM	8434 2059 31
1 3/4"	44.449	RL04-112	8434 2020 60								

## RTX-08 Direct fit ratchet link sizes, torque range of 1549 – 11049 Nm

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

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
1 1/8"	28.574	RL08-102	8434 2134 93		63	RL08-63MM	8434 2020 31	3 5/16"	84.138	RL08-305	8434 2020 77
	36	RL08-36mm	8434 2059 34	2 1/2"	63.498	RL08-208	8434 2135 26		85	RL08-85MM	8434 2021 11
1 1/2"	38	RL08-108/38MM 12PT	8434 2134 99	2 9/16"	65	RL08-209/65MM	8434 2116 04	3 3/8"	85.723	RL08-306	8434 2021 02
1 5/8"	41.274	RL08-110/41MM	8434 2135 02	2 5/8"	66.673	RL08-210	8434 2135 29	3 1/2"	88.898	RL08-308	8434 2020 74
1 11/16"	43	RL08-111/43MM	8434 2135 08		67	RL08-67MM	8434 2020 32	3 9/16"	90.485	RL08-309/90MM	8434 2135 38
1 13/16"	46	RL08-113/46MM	8434 2020 66		70	RL08-212/70MM	8434 2135 59	3 5/8"	92.075	RL08-310	8434 2020 27
1 7/8"	47.624	RL08-114	8434 2135 11		71	RL08-71MM	8434 2135 62	3 3/4"	95	RL08-312/95MM	8434 2135 41
	50	RL08-50MM	8434 2135 47	2 13/16"	71.436	RL08-213	8434 2135 32	3 7/8"	98.423	RL08-314	8434 2021 65
2"	50.799	RL08-200	8434 2020 68		75	RL08-215/75MM	8434 2135 65	1"	100	RL08-15/100MM	8434 2020 24
2"	50.799	RL08-200 12PT	8434 2020 67	3"	76.199	RL08-300	8434 2135 35	4"	101.6	RL08-400	8434 2135 44
2 1/16"	52.386	RL08-201	8434 2135 17		77	RL08-77MM	8434 2135 68	4 1/16"	103.18	RL08-401	8434 2020 75
	54	RL08-54MM	8434 2135 50		78	RL08-78MM	8434 2135 71		105	RL08-105MM	8434 2134 96
2 3/16"	55.561	RL08-203/55MM	8434 2020 69	3 1/8"	79.373	RL08-302	8434 2020 72	4 1/4"	107.95	RL08-404	8434 2020 78
2 1/4"	57.149	RL08-204	8434 2135 20		80	RL08-80MM	8434 2135 74		110	RL08-110MM	8434 2135 05
2 3/8"	60.324	RL08-206/60MM	8434 2020 70	3 1/4"	82.548	RL08-304	8434 2020 73		115	RL08-115MM	8434 2135 14
2 7/16"	61.911	RL08-207	8434 2135 23								

## RTX-14 Direct fit ratchet link sizes, torque range of 2725 – 18165 Nm

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

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
1 1/4"	31.74	RL14-104/32MM	8434 2135 99		77	RL14-77MM	8434 2021 30	4"	101.6	RL14-400	8434 2136 43
1 1/2"	38	RL14-108/38MM	8434 2136 02	3 1/16"	77.788	RL14-301	8434 2136 28	4 1/16"	103.18	RL14-401	8434 2021 26
2"	50.799	RL14-200	8434 2020 33	3 1/8"	79.373	RL14-302	8434 2136 31	4 1/8"	104.78	RL14-402	8434 2136 46
2 3/16"	55.561	RL14-203/55MM	8434 2020 36		80	RL14-80MM	8434 2021 20		105	RL14-105MM	8434 2135 98
	57	RL14-57MM	8434 2136 60	3 3/16"	80.96	RL14-303	8434 2136 32	4 3/16"	106.36	RL14-403	8434 2136 47
2 1/4"	57.149	RL14-204	8434 2020 37	3 1/4"	82.548	RL14-304	8434 2136 30	4 1/4"	107.95	RL14-404	8434 2020 84
2 3/8"	60.324	RL14-206/60MM	8434 2136 13		85	RL14-85MM	8434 2021 32	4 5/16"	109.54	RL14-405	8434 2020 83
2 1/2"	63.498	RL14-208	8434 2136 16	3 3/8"	85.723	RL14-306	8434 2136 33		110	RL14-110MM	8434 2136 01
2 9/16"	65	RL14-209/65MM	8434 2020 39	3 1/2"	88.898	RL14-308	8434 2136 34	4 1/2"	114.3	RL14-408	8434 2136 49
2 5/8"	66.673	RL14-210	8434 2136 19	3 9/16"	90.485	RL14-309/90MM	8434 2136 37		115	RL14-115MM	8434 2136 04
	67	RL14-67MM	8434 2136 64	3 5/8"	92.075	RL14-310	8434 2136 38	4 9/16"	115.89	RL14-409	8434 2136 52
2 11/16"	68.261	RL14-211	8434 2136 20	3 11/16"	93.663	RL14-311	8434 2136 39	4 5/8"	117.48	RL14-410	8434 2136 55
	70	RL14-212/70MM	8434 2136 66	3 3/4"	95	RL14-312/95MM	8434 2020 42		120	RL14-120MM	8434 2136 07
	71	RL14-71MM	8434 2136 67		98	RL14-98MM	8434 2136 70	5"	127	RL14-500	8434 2021 41
2 13/16"	71.436	RL14-213	8434 2136 22	3 7/8"	98.423	RL14-314	8434 2020 45		130	RL14-130MM	8434 2136 10
	75	RL14-215/75MM	8434 2021 29		100	RL14-100MM	8434 2021 14	5 3/8"	136.53	RL14-506	8434 2136 58
3"	76.199	RL14-300	8434 2136 25								



### RTX-18 Direct fit ratchet link sizes, torque range of 3628 – 24191 Nm

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

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
1 5/16"	33.336	RL18-105	8434 2020 91	3 3/8"	85.723	RL18-306	8434 2020 85	4 5/8"	117.47	RL18-410	8434 2020 93
1 3/8"	34.924	RL18-106	8434 2020 92	3 1/2"	88.898	RL18-308	8434 2020 87		120	RL18-120MM	8434 2137 00
2 3/16"	55.561	RL18-203/55MM	8434 2137 10		90	RL18-90MM	8434 2137 24	5"	127	RL18-500	8434 2021 56
2 3/8"	60.324	RL18-206/60MM	8434 2137 11	3 9/16"	90.485	RL18-309/90MM	8434 2020 86		130	RL18-130MM	8434 2137 03
2 9/16"	65	RL18-209/65MM	8434 2137 12	3 3/4"	95	RL18-312/95MM	8434 2020 90		135	RL18-135MM	8434 2137 06
2 3/4"	69.85	RL18-212/70MM	8434 2059 47	3 7/8"	98.423	RL18-314	8434 2137 15	5 3/8"	136.52	RL18-506	8434 2021 23
	71	RL18-71MM	8434 2137 14		100	RL18-315/100MM	8434 2020 88		140	RL18-140MM	8434 2020 89
	75	RL18-215/75MM	8434 2137 16	4 1/16"	103.18	RL18-401	8434 2020 47	5 5/8"	142.88	RL18-510	8434 2021 22
3"	76.199	RL18-300	8434 2137 13		105	RL18-105MM	8434 2136 88		145	RL18-145MM	8434 2020 94
	77	RL18-77MM	8434 2137 17		106	RL18-106MM	8434 2136 91	5 3/4"	146.05	RL18-512	8434 2020 96
3 1/8"	79.373	RL18-302	8434 2137 08	4 1/4"	107.95	RL18-404	8434 2020 48	5 15/16"	150.81	RL18-515	8434 2021 24
	80	RL18-80MM	8434 2137 18		110	RL18-110MM	8434 2136 94		151	RL18-151MM	8434 2137 09
	85	RL18-85MM	8434 2137 21		115	RL18-115MM	8434 2136 97	6 1/8"	155.58	RL18-602	8434 2021 25

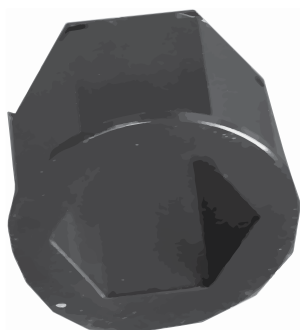
### RTX-30 Direct fit ratchet link sizes, torque range of 6466 – 43108 Nm

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

Across flat				Across flat				Across flat			
Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.	Imperial	Metric	Size	Ordering No.
2 9/16"	65	RL30-209/65MM	8434 2137 72	4 1/4"	107.948	RL30-404	8434 2137 90		140	RL30-140MM	8434 2138 21
2 15/16"	74.611	RL30-215/75MM	8434 2137 73		110	RL30-110MM	8434 2137 39		145	RL30-145MM	8434 2137 57
3 1/8"	79.373	RL30-302	8434 2137 75	4 1/2"	114.3	RL30-408	8434 2021 01	5 3/4"	146.05	RL30-512	8434 2137 93
	80	RL30-80MM	8434 2138 14		115	RL30-115MM	8434 2137 42		150	RL30-150MM	8434 2137 60
	85	RL30-85MM	8434 2138 17		117	RL30-117MM	8434 2020 56	5 15/16"	150.812	RL30-515	8434 2137 96
3 3/8"	85.723	RL30-306	8434 2137 78	4 5/8"	117.475	RL30-410	8434 2021 00		152	RL30-152MM	8434 2020 61
3 1/2"	88.898	RL30-308	8434 2137 81		120	RL30-120MM	8434 2137 45	6"	152.4	RL30-600	8434 2138 02
	90	RL30-90MM	8434 2138 18		123	RL30-123MM	8434 2137 48		155	RL30-155MM	8434 2137 63
3 3/4"	95	RL30-312/95MM	8434 2137 84		124	RL30-124MM	8434 2020 55	6 1/8"	155.575	RL30-602	8434 2020 59
	98	RL30-98MM	8434 2138 20		125	RL30-125MM	8434 2137 51		160	RL30-160MM	8434 2137 66
3 7/8"	98.423	RL30-314	8434 2137 87	5"	126.998	RL30-500	8434 2020 99	6 3/8"	161.925	RL30-606	8434 2138 05
	100	RL30-315/100MM	8434 2137 33		130	RL30-130MM	8434 2020 53	6 1/2"	165.1	RL30-608	8434 2138 08
4"	101.6	RL30-400	8434 2133 86		133	RL30-133MM	8434 2020 58		170	RL30-170MM	8434 2137 69
4 1/16"	103.18	RL30-401	8434 2137 88		135	RL30-135MM	8434 2137 54		175	RL30-175MM	8434 2138 22
4 1/8"	104.775	RL30-402	8434 2137 89	5 3/8"	136.522	RL30-506	8434 2020 51	7 1/16"	179.387	RL30-701	8434 2138 11
	105	RL30-105MM	8434 2137 36	5 1/2"	139.7	RL30-508	8434 2137 92				

# Insert Hex Reducers



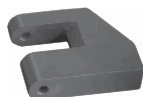
## Insert hex reducer

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-205		8434 2128 70
BK-206	2 3/8"	8434 2056 36
BK-208		8434 2128 71
BK-209	2 9/16"	8434 2056 38
BK-210	2 5/8"	8434 2056 40
BK-211		8434 2128 73
BK-212	2 3/4"	8434 2056 42
BK-215	2 15/16"	8434 2056 44
BK-300	3"	8434 2129 23
BK-301		8434 2128 74
BK-302	3 1/8"	8434 2056 46
BK-304		8434 2128 76
BK-306		8434 2128 77
BK-308	3 1/2"	8434 2056 48
BK-310		8434 2128 67
BK-312	3 3/4"	8434 2129 29
BK-314	3 7/8"	8434 2056 50
BK-400	4"	8434 2128 68
BK-402	4 1/8"	8434 2129 35
BK-404	4 1/4"	8434 2129 38

# Pumps

*air and electric*



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

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

## Air driven pumps

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	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	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	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	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	-	-	-	-	72	1.1	1	8434 2059 62

## Electric pumps

Model	Dimensions (LxWxH)	Weight	Intercooler system	Oil flow 1,250 psi/86 bar		Oil flow 3,600 psi/250 bar		Oil flow 10,000 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	320 x 210.8 x 388.6	15	no	195	3.2 l/min	54	0.9	21	0.35	1	8434 2040 31
Panther 025 with Full frame 110V	320 x 210.8 x 388.6	15	no	195	3.2 l/min	54	0.9	21	0.35	1	8434 2040 33
Panther 025 with Handle 220V	320 x 210.8 x 388.6	15	no	195	3.2 l/min	54	0.9	21	0.35	1	8434 2130 22
Panther 025 with Full frame 220V	320 x 210.8 x 388.6	15	no	195	3.2 l/min	54	0.9	21	0.35	1	8434 2059 54
Panther 055 110V	439.4 x 238.7 x 469.9	22	yes	391	6.4 l/min	110	1.8	42	0.7	4	8434 2040 35
Panther 055 220V	439.4 x 238.7 x 469.9	22	yes	391	6.4 l/min	110	1.8	42	0.7	4	8434 2040 37
Lynx 110V	541.3 x 435.3 x 460.2	34	Optional Accessory	-	-	-	-	56	0.9	1	8434 2059 61
Lynx 220V	541.3 x 435.3 x 460.2	34	Optional Accessory	-	-	-	-	56	0.9	1	8434 2059 59
Panther 150 110V	460 x 300 x 440	33	yes	641	10.5 l/min	153	2.5	92	1.5	4	8434 2040 39
Panther 150 220V	460 x 300 x 440	33	yes	641	10.5 l/min	153	2.5	92	1.5	4	8434 2040 41

# Hoses

and gauges



## 10,000 psi/700 bar hoses

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 hoses

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

## Manifold kit

Model	Description	Ordering No.
Lynx and TigAir	4-port	8434 2115 73

# Couplings

*and hydraulic oil*



## Couplings

Couplings are available in standard or quick connect versions.

## Couplings

Model	Description	Ordering No.
090156-1*	1/8" Male coupler	8434 2050 06
90156**	1/4" Male coupler	8434 2123 41
90157	3/8" Female coupler	8434 2123 44
090155-1*	Nipple 1/8" Male	8434 2123 65
QC-COUPPLERS	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*	Nipple 1/4" Male	8434 2123 68

\* For RT0.5, RT-01, RTX-02

\*\* For all other models than RT0.5, RT-01, RTX-02

## Hydraulic Oil

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

# AIR LINE INSTALLATION

## CONTENT

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# AlRnet - Quality Piping Solution



AIRnet technologies and innovations are based on technical expertise gained from more than 140 years of experience with pressurized air applications and equipment.

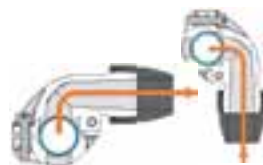
## **AIRNET IS FAST AND EASY TO INSTALL AND FLEXIBLE FOR THE FUTURE**

### **TIME AND TOOLING**

- Quick connections with no need to crimp, thread, solder or glue the pipe
- No heavy tooling or machinery required
- PF series can be connected to any existing network via simple use of adaptor unions and nipple sockets
- PF series is assembled by hand, a push of the pipe into the fitting is all it takes

### **MODULARITY**

- Easy to handle and easy to work with lightweight materials
- Modular design supports extensions and modifications to meet new demands
- Components are interchangeable and reusable after disassembly
- Quickdrops are easily mounted, both horizontally and vertically



Quickdrop design safeguards leaktight and condensate free droplines



White torque indicators (PF Series)

## **AIRNET IS RELIABLE, SAFE, AND MAINTENANCE FREE**

### **SUSTAINABILITY**

- Optimized inner body design minimizes flow resistance and pressure drop in the fittings
- Low friction factor and seamless connections minimize pressure drops in the pipe network
- Superior sealing technology ensures a leak free system and maintains performance over time
- Durable and corrosion resistant materials offers a maintenance free system

### **SAFETY**

- Safety factor of 4 for all diameters
- Camera control and automatic assembly guarantee zero defect manufacturing
- Plastic components and pipe clips comply to UL 94 HB and UL 94 V-2 for flammability
- Torque indicators ensure sufficient torquing















Please contact your Atlas Copco representative or go to <http://www.airnet-system.com> 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>Small vane grinders</p>  <p>Small screwdrivers</p>	 <p>Percussive tools</p>  <p>Medium vane grinders</p>  <p>Medium impact wrenches</p>	 <p>Large impact wrenches</p>  <p>Drills</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.



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



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

## MIDI Optimizer - 1/2"

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





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

## MIDI Optimizer - 3/4"

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 - 1"

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, and the unit has a 1" BSP connection thread. 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
<b>Filter (FIL) accessories (30 µm filter element is incl with all filters)</b>					
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			
<b>Regulator (REG) accessories <sup>b</sup></b>					
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
<b>Lubricator (DIM) accessories</b>					
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			
Oil reduction plate			9093 0022 06	9093 0022 06	

<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. Safety data sheets (MSDS/SDS) available online.

- **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 - suits 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 - suits 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

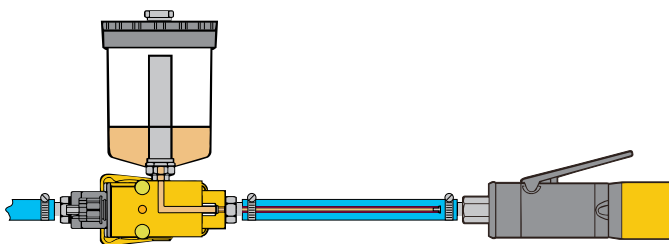
For supplying lubricant to an unlimited number of lubrication points on a machine or in a pneumatic system.

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.

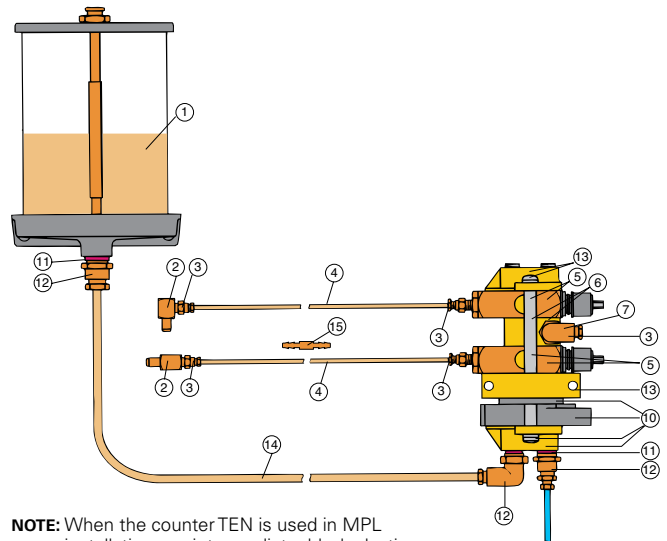
<sup>b</sup> With counter and 7.5 m oil-filled nylon tubing.

<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		8202 4205 04
Oil port	1/4	
Air port	1/4	
Clamp		
Oil port	1/4	
Air port	1/4	
JECT 01 oil pump	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 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 0-18 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 08 ErgoQIC 10AC	ErgoQIC 10 ASIA	ErgoQIC 08E	ErgoQIC 10US	ErgoQIC 10	ErgoQIC 15E	ErgoQIC 15US		
	Screwdrivers	M2-M6	2-8 l/s	✓	✓	✓	✓						
		<b>Bolt size</b>											
	Impact wrenches	1/4" HEX and 3/8"	2-9 l/s	✓	✓	✓	✓						
		3/8" and 1/2"	10-20 l/s			✓	✓	✓	✓				
		1" and 1 1/2"	28-37 l/s							✓	✓	✓	✓
<b>Bolt size</b>													
	Pulse tools	M4-M5	9 l/s	✓	✓	✓	✓						
		M6-M12	15-25 l/s		✓	✓	✓	✓	✓	✓	✓		
		M14-M20	32-49 l/s							✓	✓	✓	✓
<b>Power</b>													
	Drills	<820 W	8-21 l/s	✓	✓	✓	✓	✓					
		<b>Size</b>											
	Chipping hammers	<7 kg	6.5-14 l/s	✓	✓	✓	✓	✓					
		<b>Power</b>											
	Die grinders	<500 W	3-10 l/s	✓	✓	✓	✓						
		500-900 W	7-19 l/s			✓	✓	✓	✓	✓			
		0.9-2 kW	20-35 l/s			✓	✓	✓	✓	✓	✓	✓	✓
<b>Power</b>													
	Turbine grinders	<2.5 kW	32 l/s							✓	✓	✓	✓
		<b>Power</b>											
	Blow guns		4-7.5 l/s	✓	✓	✓	✓						

### Interchangeability Guide

Standard Type Market	Global		EU standard		ISO 6150-B (former US)			EU	EU	ASIA
			76 (7.4)	10.4	1/4"	3/8"	1/2"			
						Benelux, France, US, Norway, Switzerland			Australia	
Atlas Copco ErgoQIC	08	10	08E	15E	08US	10US	15US	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			315
Oetiker			SC C		SC B1	SC E	SC H			SC D
Tema			1600	1700	1400			1650	1750	
Rectus			25/26	27	23/24	30	37	33	34	13
Prevost			ESC/ERC07		IRC/ISC06	IRC/ISC08	ISG 11			ORG
Nitto Kohki										20/30/40
ARO					102	103/203	104/204			
Amflo					C20B	C26	C10			
Bosch			7.2							
Parker				55	30 / B23	25F	17			
Foster					3003	4404	5205			
Camozzi			508/5180							
Dynaquip					1/4"	3/8"				
EWO			x							
Festo			KD							
Gromelle					600	900				
Hansen					22/3000	400/4000	500/5000			
Ingersoll Rand			7S7		A2/MS/102	A3/103/203	A4/104/204			
Kaeser			x							
Legris			25/26	27	23/24	30				13
Tomco					180	4000	5000			



Nipple profile



## Atlas Copco Global standard

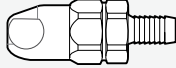

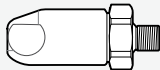
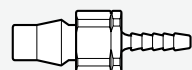

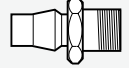

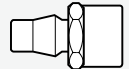
The ErgoQIC 08 is a full flow quick coupling with no air restriction inside. It is suitable for assembly tools, drills and small grinders. Upgrading any air system with ErgoQIC 08 can improve productivity and energy efficiency.

- 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
<b>H – Hose</b> 	H06	8202 1110 04	6.3	1/4	<b>H – Hose</b> 	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
<b>M – Male</b> 	M08	8202 1110 61	1/4 BSP	<b>SH – Safety Hose<sup>a</sup></b> 	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
<b>F – Female</b> 	F08	8202 1110 90	1/4 BSP	<b>M – Male</b> 	M06	8202 1210 03	1/8 BSP		
	F10	8202 1110 95	3/8 BSP		M08	8202 1210 11	1/4 BSP		
<b>Protective cover</b> 		9090 1940 00			M10	8202 1210 29	3/8 BSP		
					M15	8202 1210 31	1/2 BSP		
				<b>F – Female</b> 	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

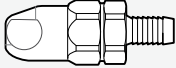

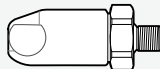
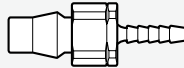
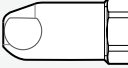
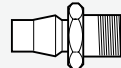

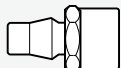
The ErgoQIC 10 is a full flow coupling with no air restriction inside. It is suitable for assembly tools, drills and grinders. Upgrading any air system with ErgoQIC 10 can improve productivity and energy efficiency.

- 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



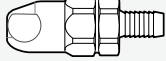

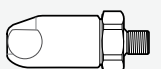
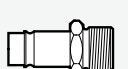
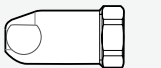
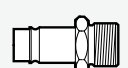
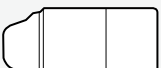
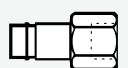
### QIC 10SE

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.



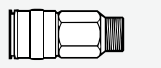
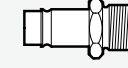
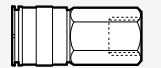
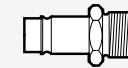
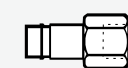
### Technical Data

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



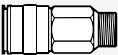
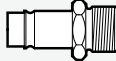
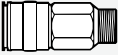
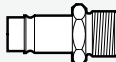
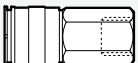
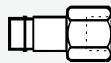
**ErgoQIC 08E and NIP EU 7.6, 24 l/s** (recommended air flow at 6.3 bar pressure)

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



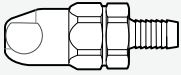

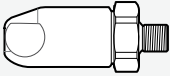
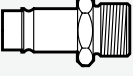
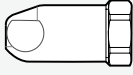
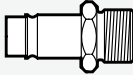
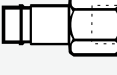
### QIC 15SE

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.

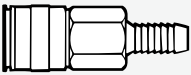

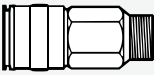
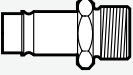
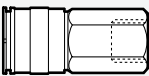
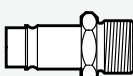
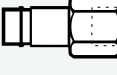
### Technical Data

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

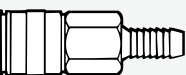

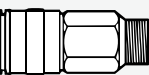
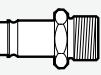
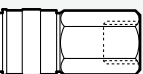
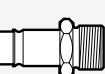
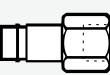
**ErgoQIC 15E and NIP EU 10.4, 49 l/s** (recommended air flow at 6.3 bar pressure)

Connection type	Coupling ErgoQIC 15E	Ordering No.	Size		Connection type	Nipple NIP EU 10.4	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H13	8202 1106 51	12.5	1/2	H – Hose 	H06	8202 1253 00	6.3	1/4
	H16	8202 1106 52	16	5/8		H08	8202 1253 05	8	5/16
	H20	8202 1106 53	19	3/4		H10	8202 1253 10	10	3/8
						H13	8202 1253 15	12.5	1/2
				H16		8202 1253 20	16	5/8	
				H20		8202 1253 23	19	3/4	
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	
F – Female 	F15	8202 1106 71	1/2 BSP		MT – Male taper thread 	MT08	8202 1253 35	1/4 BSPT	
								MT10	8202 1253 40
							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 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
				H16		8202 1253 20	16	5/8	
				H20		8202 1253 23	19	3/4	
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
				H13		8202 1253 15	12.5	1/2	
				H16		8202 1253 20	16	5/8	
				H20		8202 1253 23	19	3/4	
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
							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

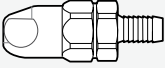

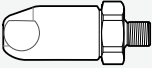
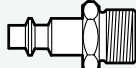
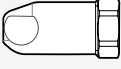
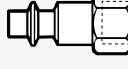
The QIC 08S is a compact safety coupling suitable for small screwdrivers and drills. The light, compact design of QIC 08S couplings makes them easy to work with. Safety feature according to EN 983 / ISO 4414.

### Technical Data


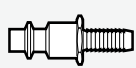

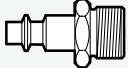
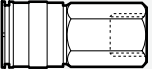
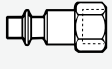
Max flow capacity	12 l/s (0.5 bar $\Delta$ P)
Economical air flow	8 l/s (0.2 bar $\Delta$ P)
Max working pressure	16 bar
Temperature range	-20°C to +80°C



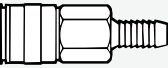


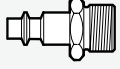

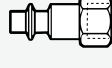
**ErgoQIC 08US and NIP 08, 11 l/s** (recommended air flow at 6.3 bar pressure)

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 1208 03	12.5
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 	F08	8202 1205 83	1/4 BSP	
	F10	8202 1103 13	3/8 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
							H13	8202 1208 03	12.5
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
							H13	8202 1208 03	12.5
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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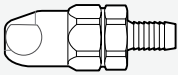

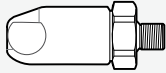
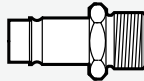
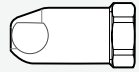
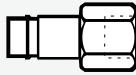
Max flow capacity	43 l/s (0.5 bar $\Delta P$ )
Economical air flow	27 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to 80°C

## Technical Data

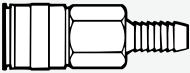

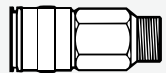
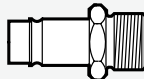
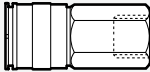
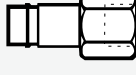
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Max flow capacity	19 l/s (0.5 bar $\Delta P$ )
Economical air flow	12 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to 80°C

**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	5/8
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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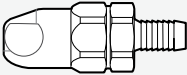


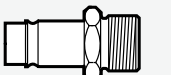
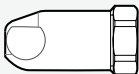
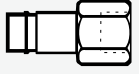
Max flow capacity	77 l/s (0.5 bar $\Delta P$ )
Economical air flow	52 l/s (0.2 bar $\Delta P$ )
Max working pressure	16 bar
Temperature range	-20°C to +80°C

## Technical Data

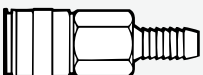


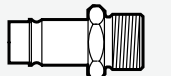
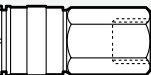
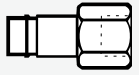
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Max flow capacity	40 l/s (0.5 bar $\Delta P$ )
Economical air flow	22 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C

**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		
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 	M20	8202 1215 43	19	3/4	
	M15	8202 1308 11	1/2 BSP		M08	8202 1215 44	1/4 BSP		
	M20	8202 1308 12	3/4 BSP		M10	8202 1215 45	3/8 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



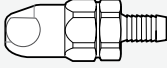

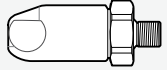
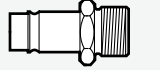
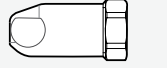
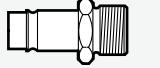
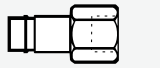
### QIC 10S

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.

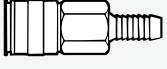

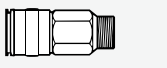
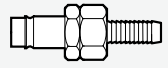
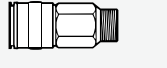
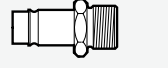

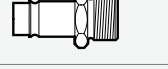

### Technical Data

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)








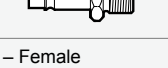
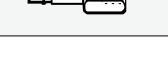
Connection type	Coupling ErgoQIC 10AC	Ordering No.	Size		Connection type	Nipple NIP 10	Ordering No.	Size	
			mm	in				mm	in
H – Hose 	H08	8202 1109 01	8	5/16	H – Hose 	H06	8202 1202 11	6.3	3/8
	H10	8202 1109 02	10	3/8		H08	8202 1202 94	8	1/2
	H13	8202 1109 03	12.5	1/2		H10	8202 1202 29	10	5/8
						H13	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.

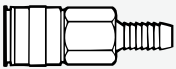


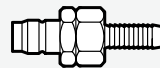
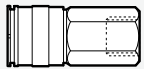


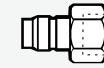
### Technical Data

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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

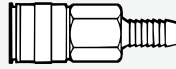


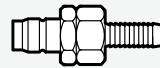



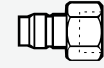


**QIC 15 and NIP 15, 30 l/s** (recommended air flow at 6.3 bar pressure)

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
						H13	8202 1251 29	12.5	1/2
						H16	8202 1251 37	16	5/8
M – Male thread 	M08	8202 1304 34	1/4 BSP		SH – Safety Hose <sup>a</sup> 	SH10	8202 1203 44	10	3/8
	M10	8202 1304 42	3/8 BSP			SH13	8202 1203 51	12.5	1/2
	M15	8202 1304 59	1/2 BSP			SH16	8202 1203 69	16	5/8
F – Female thread 	F15	8202 1304 67	1/2 BSP		M – Male thread 	M10	8202 1251 45	3/8 BSP	
				M15		8202 1251 52	1/2 BSP		
					MT – Male taper thread 	MT08	8202 1251 60	1/4 BSPT	
						MT10	8202 1251 78	3/8 BSPT	
						MT15	8202 1251 86	1/2 BSPT	
					F – Female thread 	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
						H13	8202 1251 29	12.5	1/2
						H16	8202 1251 37	16	5/8
M – Male thread 	M08	8202 1304 38	1/4 BSP		SH – Safety Hose <sup>a</sup> 	SH10	8202 1203 44	10	3/8
	M10	8202 1304 48	3/8 BSP			SH13	8202 1203 51	12.5	1/2
	M15	8202 1304 73	1/2 BSP			SH16	8202 1203 69	16	5/8
F – Female thread 	F15	8202 1304 74	1/2 BSP		M – Male thread 	M10	8202 1251 45	3/8 BSP	
				M15		8202 1251 52	1/2 BSP		
					MT – Male taper thread 	MT08	8202 1251 60	1/4 BSPT	
						MT10	8202 1251 78	3/8 BSPT	
						MT15	8202 1251 86	1/2 BSPT	
					F – Female thread 	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

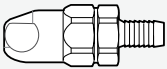
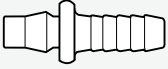
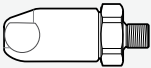
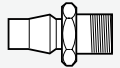
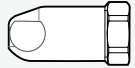
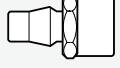
The QIC 10 ASIA quick coupling is suitable for assembly tools, drills and small grinders. The QIC 10 ASIA has a wide range of connections available and it is interchangeable with Asia standard nipples.

### Technical Data

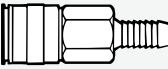



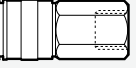
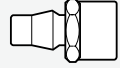
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Max flow capacity	20 l/s (0.5 bar $\Delta P$ )
Economical air flow	13 l/s (0.2 bar $\Delta P$ )
Max working pressure	10 bar
Temperature range	-20°C to +80°C

**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)

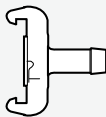
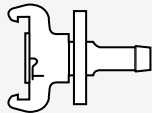
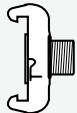

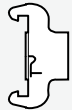

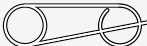
Connection type	Coupling QIC 10 ASIA	Ordering No.	Size		Connection type	Nipple NIP 10 ASIA	Ordering No.	Size	
			mm	in				mm	in
 H – Hose	H06	8202 1302 85	6.3	1/4	 H – Hose	H06	8202 1202 15	6.3	1/4
	H08	8202 1302 86	8	5/16		H08	8202 1202 16	8	5/16
	H10	8202 1302 87	10	3/8		H10	8202 1202 17	10	3/8
	H13	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	



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	
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	
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.



BAL-1A

BAL

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.

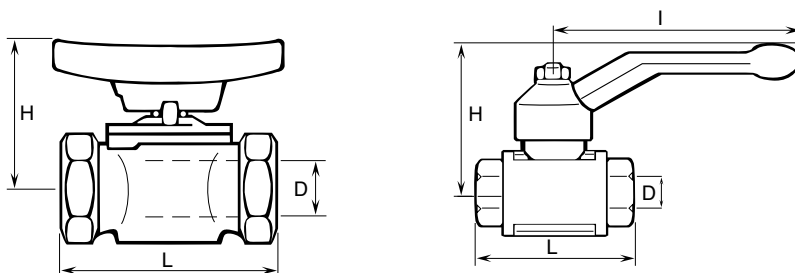
### BAL-1A

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. Safety factor 4 on MultiFlex couplings. Maximum recommended working pressure is 10 bar.

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



# Fittings

## 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	1/4 BSP	9721 4002 89
10/8	3/8 BSP	9721 4002 90
12/9	1/4 BSP	9721 4000 86
12/10	3/8 BSP	9721 4000 88
15/12.5	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	9721 4002 88
12/10	9721 4000 91
15/12	9721 4002 85

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

## 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





**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

# 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.

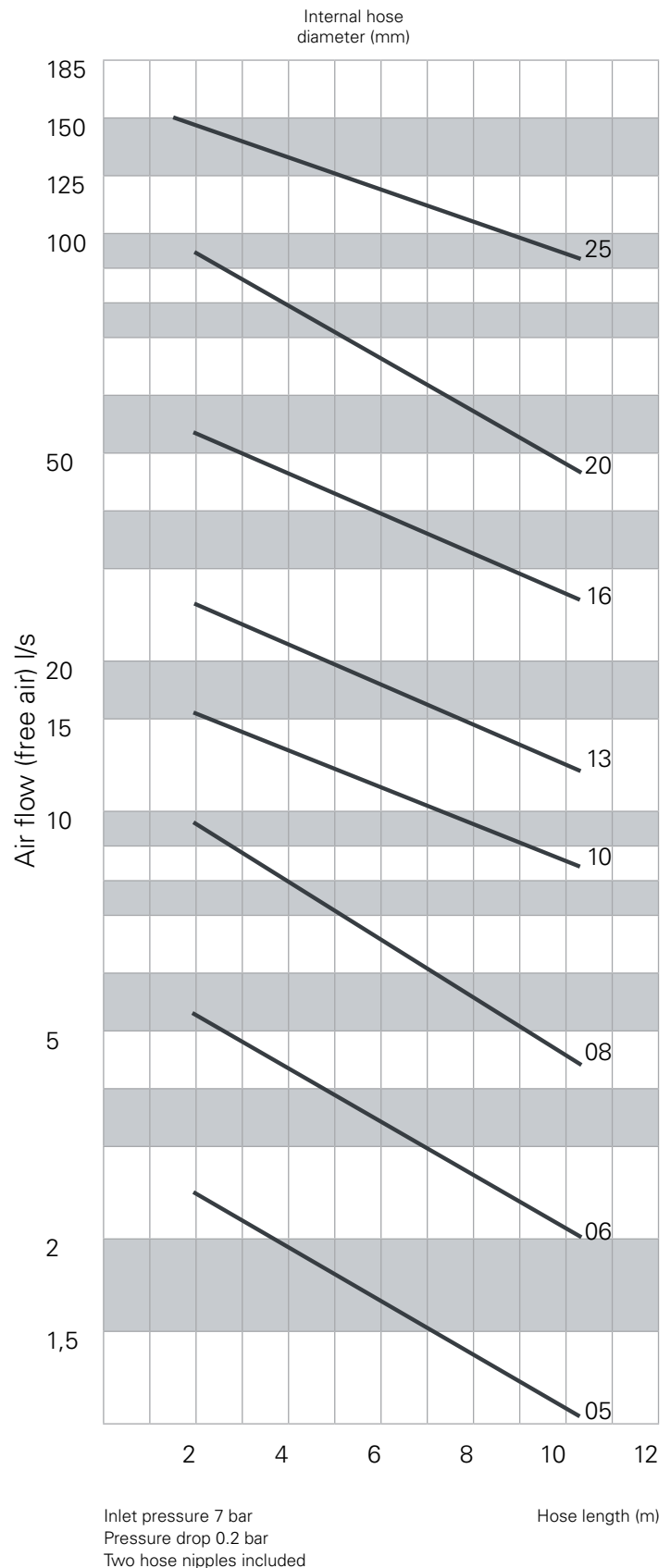
### How to find correct internal hose diameter:

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
TURBO 20	21	5/6	27	20	75	–	8.1	9093 0057 62

<sup>a</sup> With a safety factor of 3 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.
- 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	25	1	36	16	125	30	24.0	9030 2041 00

<sup>a</sup> With a safety factor of 3 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

<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.

# 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.

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 coli kg	Ordering No.
	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 BS ISO 2878:2005.
- Working temperature -15°C to +60°C.



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.

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

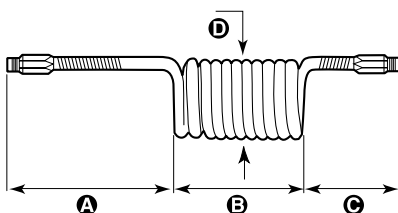
SPI elastic spiral hose is ideal for air tools used at varying distances from a fixed air outlet. It is easily stretched and retracts immediately when released. When used with hand tools, its self-storage principle ensures that the hose is kept off the floor and out of the way of the operator. The SPI 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 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	5	ErgoNIP 08	ErgoQIC 08	1/4" BSP	8202 1182 03
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	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
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

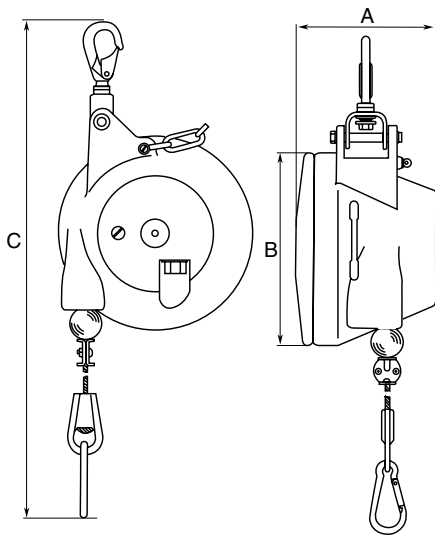
Weightless positioning balancers with a cone-shaped drum that holds the load in the correct position and keeps it weightless throughout the entire cable length. It minimizes worker fatigue.

## 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	
<b>WP 05 - Standard</b>									
WP 05-1	0.4-1.2	0.9-2.6	2	1.3	2.9	71	141	460	8202 0778 00
WP 05-3	1.2-2.6	2.6-5.7	2	1.4	3.1	71	141	460	8202 0778 01
WP 05-4	2.6-3.8	5.7-8.4	2	1.5	3.3	71	141	460	8202 0778 02
WP 05-5	3.8-5.2	8.4-11.5	2	1.5	3.3	71	141	460	8202 0778 03
WP 05-6	5.2-6.5	11.5-14.3	2	1.5	3.3	71	141	460	8202 0778 04
<b>WP 05 - Extended Cable - A</b>									
WP 05-1-A	0.4-1.2	0.9-2.6	5.5	1.3	2.9	71	141	460	8202 0778 05
WP 05-3-A	1.2-2.6	2.6-5.7	5.5	1.4	3.1	71	141	460	8202 0778 06
WP 05-4-A	2.6-3.8	5.7-8.4	5.5	1.5	3.3	71	141	460	8202 0778 07
WP 05-5-A	3.8-5.2	8.4-11.5	5.5	1.5	3.3	71	141	460	8202 0778 08
WP 05-6-A	5.2-6.5	11.5-14.3	5.5	1.5	3.3	71	141	460	8202 0778 09
<b>WP 10 - Standard</b>									
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
<b>WP 10 - Extended Cable - A</b>									
WP 10-3-A	3-5	6.6-11	5.5	2.9	6.4	130	188	521	8202 0779 06
WP 10-4.5-A	4.5-7	10-15.4	5.5	3.1	6.8	130	188	521	8202 0779 07
WP 10-6-A	6-10	13-22	5.5	3.2	7.0	130	188	521	8202 0779 08
WP 10-9-A	9-14	20-31	5.5	3.4	7.5	130	188	521	8202 0779 09
WP 10-13-A	13-17	29-37	5.5	3.6	8.0	130	188	521	8202 0779 10
WP 10-16-A	16-21	35-46	5.5	3.8	8.4	130	188	521	8202 0779 11
<b>WP 20 - Standard</b>									
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
<b>WP 30 - Standard</b>									
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
<b>WP 40 - Standard</b>									
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



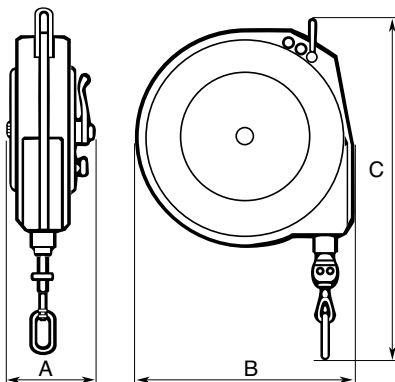
### RIL balancer

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 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.

**NOTE:** RIL 1C, 2C, 4C and 5C comes 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, 15C and 22C	4391 4156 00

# Balancers



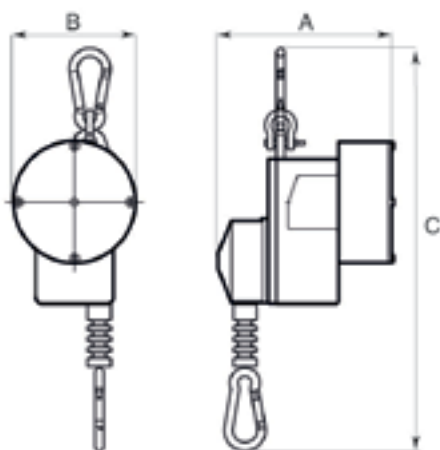
## COL balancer

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. The COL 1 products comes with a nylon cable.

## 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

## Accessory

### Safety chain

	Ordering No.
COL 1	4391 4045 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
- Applicable standards: OSHA STD1-13.1, OSHA 1910.95 (b).

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-STS	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.**



# 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.

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 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.

## Follow this order when working with claw couplings.

### 1 How to open a claw coupling:

Close the ball valve.



### 2 Run the tool so the air ventilates out.



### 3 Release the claw coupling.



### 4 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.



### 5 Open the ball valve gently.



# Hoists and Trolleys





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, lightweight 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. All models in the range are lubrication free.

Model	Max lifting capacity kg	Lifting speed at full load m/min	Chain drops qty	Weight excl chain kg	Chain weight kg/m	Required chain-length metre	Air consumption l/s	Hose size mm	Air inlet thread BSP	Ordering No.
LLA250-L ATEX <sup>a</sup>	250	18.6	1	12.7	0.9	Lifting height + 0.5	37	12.5	1/2	8451 1550 17
LLA500-L ATEX <sup>a</sup>	500	12.6	1	12.7	0.9	Lifting height + 0.5	38	12.5	1/2	8451 1550 25
LLA500-L-W ATEX <sup>a,c</sup>	500	12.6	1	12.7	0.9	Lifting height + 0.5	38	12.5	1/2	8451 1540 93
LLA980-L ATEX <sup>a</sup>	980	6.3	2	14.5	0.9	2 x Lifting height + 0.5	38	12.5	1/2	8451 1560 15
LLA1000-L ATEX <sup>b</sup>	1000	6.3	2	15.0	0.9	2 x Lifting height + 0.5	38	12.5	1/2	8451 1550 32
LLA2500-L ATEX <sup>b</sup>	2500	3.2	1	42.5	2.9	Lifting height + 0.6	40	12.5	1/2	8451 1550 41
LLA5000-L ATEX <sup>b</sup>	5000	1.6	2	65.5	2.9	2 x Lifting height + 0.9	40	12.5	1/2	8451 1550 58

a Without overload protection device.

b Overload protection device included.

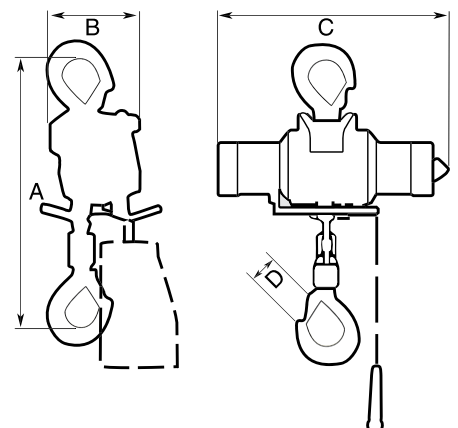
c Unpainted, corrosion resistant.

Performance figures are at 6.3 bar working pressure.

NOTE: Load chain and control chain must be ordered separately.

## Dimensions

Model	A mm	B mm	C mm	D mm
LLA250-L ATEX	377	122	390	29
LLA500-L ATEX	377	122	390	29
LLA500-L-W ATEX	377	122	390	29
LLA980-L ATEX	445	122	390	29
LLA1000-L ATEX	495	122	390	29
LLA2500-L ATEX	575	212	546	50
LLA5000-L ATEX	785	249	546	60





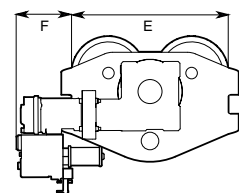
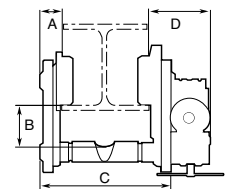
Atlas Copco trolleys are available in 3 sizes, for maximum loads of 1, 3 and 5 tonnes. All models can be supplied with air motor drive. The 1 tonne trolley includes a motor without pendant control. The 3 and 5 tonne models include a handle for the control chain (the control chain must be ordered separately). The 1 and 3 tonne trolleys are also available in manual versions.

Model	Max capacity kg	Max speed with full load m/min	Air consumption l/s	Beam width mm	Curve radius min mm	Weight kg	Ordering No.
<b>Manual</b>							
TLU1000-H-N	1000	-	-	50-160	1250	9.4	8451 1520 06
TLT1000-H-W	1000	-	-	161-280	1250	11	8451 1520 63
TLT3000-H-N	3000	-	-	74-180	2200	32	8451 1520 55
TLT3000-H-W	3000	-	-	181-300	2200	34	8451 1520 89
<b>Motor driven</b>							
TLU1000-M-N	1000	14	4	50-160	1250	11	8451 1520 14
TLT1000-M-W	1000	14	4	161-280	1250	12	8451 1520 71
TLT3000-M-N	3000	17.8	42	74-180	2200	48	8451 1520 30
TLT3000-M-W	3000	17.8	42	181-300	2200	52	8451 1520 97
TLT5000-M	5000	16.2	42	181-300	2500	74	8451 1520 48

Performance figures are at 6.3 bar working pressure.

## Dimensions

Model	A mm	B mm	C mm	D mm	E mm	F mm
<b>Manual</b>						
TLU1000-H-N	26	52	212	-	264	-
TLT1000-H-W	26	52	Beam width + 57	-	264	-
TLT3000-H-N	35	78	262	-	384	-
TLT3000-H-W	35	78	Beam width + 89	-	384	-
<b>Motor driven</b>						
TLU1000-M-N	24	52	212	225	264	-
TLT1000-M-W	24	52	Beam width + 57	225	264	-
TLT3000-M-N	37	78	262	148	380	94
TLT3000-M-W	37	78	Beam width + 89	148	380	94
TLT5000-M	41	93	Beam width + 97	166	437	59



# 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	1.5	90	101
LMS28 HR	5.2	1.3	92	103
LMS38 HR	3.5	1.5	88	99
LMS48 HR	5	1.4	89	100
LMS58 HR	5.5	1.6	92	103
LMS68 HR	7.4	2.6	98	109
<b>Straight</b>				
<b>Non shut-off</b>				
LMS08 SR	5.6	2.4	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>Turbine grinder</b>				
<b>Angle</b>				
GTG25 F120-13	4.1	1	78	-
GTG25 F085-18	3.1	1.3	78	-
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>Model</b>				
<b>Turbine 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>Model</b>				
<b>Turbine sander</b>				
GTG25 S085	<2.5	-	78	-
GTG25 S085-M14	<2.5	-	78	-
GTG40 S060	<2.5	-	84	95
<b>Model</b>				
<b>Grinders</b>				
<b>Die grinder</b>				
<b>Straight</b>				
LSF12 S200-1	3.1	1.9	74	-
LSF12 S250-1	3	1.4	78	-
LSF12 S310-1	3.4	1.5	77	-
LSF12 S400-1	3.9	1.8	77	-
LSF19 S200-1	3.4	0.9	<70	-
LSF19 S200-2	3.4	0.9	<70	-
LSF19 S300-1	<2.5	-	73	-
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)																																																																																																														
<b>Grinders</b>					<b>Grinders</b>																																																																																																																		
<b>Die grinder</b>					<b>Straight</b>																																																																																																																		
<b>Straight</b>					LSR48 S120-CW																																																																																																																		
LSF19 S460-1	4.7	2	81	92	LSR48 S090-CW	<2.5	-	80	-																																																																																																														
LSF19 S200E-1	3.1	1.8	<70	-	LSR28 S180-05	3.6	0.9	76	-																																																																																																														
LSF19 S300E-1	3.4	1.8	73	-	LSR28 S150-10	<2.5	-	85	96																																																																																																														
LSF19 S300E-1/R	3.3	1	73	-	LSR28 S110-08	<2.5	-	70	-																																																																																																														
LSF19 S460E-1	4.7	2	81	92	LSR28 S110-08	<2.5	-	<70	-																																																																																																														
LSF19 S460E-1/R	3.6	1.3	81	92	LSR43 S150-10	2.9	1	86	97																																																																																																														
LSF19 S300-1/R	3.2	2.2	73	-	LSR43 S120-08	<2.5	-	84	95																																																																																																														
LSF38 S150E-01/R	<2.5	-	81	92	LSR43 S090-10	<2.5	-	82	93																																																																																																														
LSF38 S180E-01/R	<2.5	-	86	97	LSR48 S120-08	<2.5	-	78	-																																																																																																														
LSF38 S180E-01	<2.5	-	86	97	LSR48 S120-08R	<2.5	-	78	-																																																																																																														
LSF38 S250E-01	2.8	1.3	90	101	LSR48 S120-13	2.9	1.2	83	94																																																																																																														
LSF28 S180	2.8	1.1	74	-	LSR48 S120-10	<2.5	-	80	-																																																																																																														
LSF28 S180E	<2.5	-	74	-	LSR48 S090-10R	<2.5	-	78	-																																																																																																														
LSF28 S250	2.7	0.7	81	92	LSR64 S100-15	<2.5	-	88	99																																																																																																														
LSF28 S180-1R	3.4	0.9	74	-	LSR64 S072-13	<2.5	-	82	93																																																																																																														
LSF28 S180E-1R	2.8	1	74	-	LSR64 S060-15	<2.5	-	83	94																																																																																																														
LSF28 S250-R	3.1	1.8	81	92	LSR28 ST070E-CW	3.1	1.1	81	92																																																																																																														
LSF28 S250E-R	3	0.7	81	92	LSR43 S072	<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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LSR48 S150-CW	<2.5	-	80	-																																																																																																																			
LSV18 S080	<2.5	-	73	-						<table border="1"> <thead> <tr> <th colspan="2">Vibration total value (3 axes value) according to ISO 28927-4 Valid from 2010</th> <th colspan="2">Sound pressure levels and sound power levels<sup>a</sup> according to ISO 15744</th> </tr> <tr> <th>Value 3-axes m/s<sup>2</sup></th> <th>Uncertainty m/s<sup>2</sup></th> <th>Sound pressure dB(A)</th> <th>Sound power dB(A)</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Grinders</b></td> </tr> <tr> <td colspan="4"><b>Straight</b></td> </tr> <tr> <td>LSR28 S150-CW</td> <td>2.8</td> <td>1.2</td> <td>70</td> <td>-</td> </tr> <tr> <td>LSR28 S120-CW</td> <td>&lt;2.5</td> <td>-</td> <td>&lt;70</td> <td>-</td> </tr> <tr> <td>LSR38 S180-CW</td> <td>4</td> <td>1.3</td> <td>83</td> <td>94</td> </tr> <tr> <td>LSR38 S150-CW</td> <td>2.6</td> <td>0.8</td> <td>85</td> <td>96</td> </tr> <tr> <td>LSR48 S150-CW</td> <td>&lt;2.5</td> <td>-</td> <td>80</td> <td>-</td> </tr> </tbody> </table>					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)	<b>Grinders</b>				<b>Straight</b>				LSR28 S150-CW	2.8	1.2	70	-	LSR28 S120-CW	<2.5	-	<70	-	LSR38 S180-CW	4	1.3	83	94	LSR38 S150-CW	2.6	0.8	85	96	LSR48 S150-CW	<2.5	-	80	-																																																																
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<sup>a</sup> The uncertainty in the sound levels is 3 dB(A).



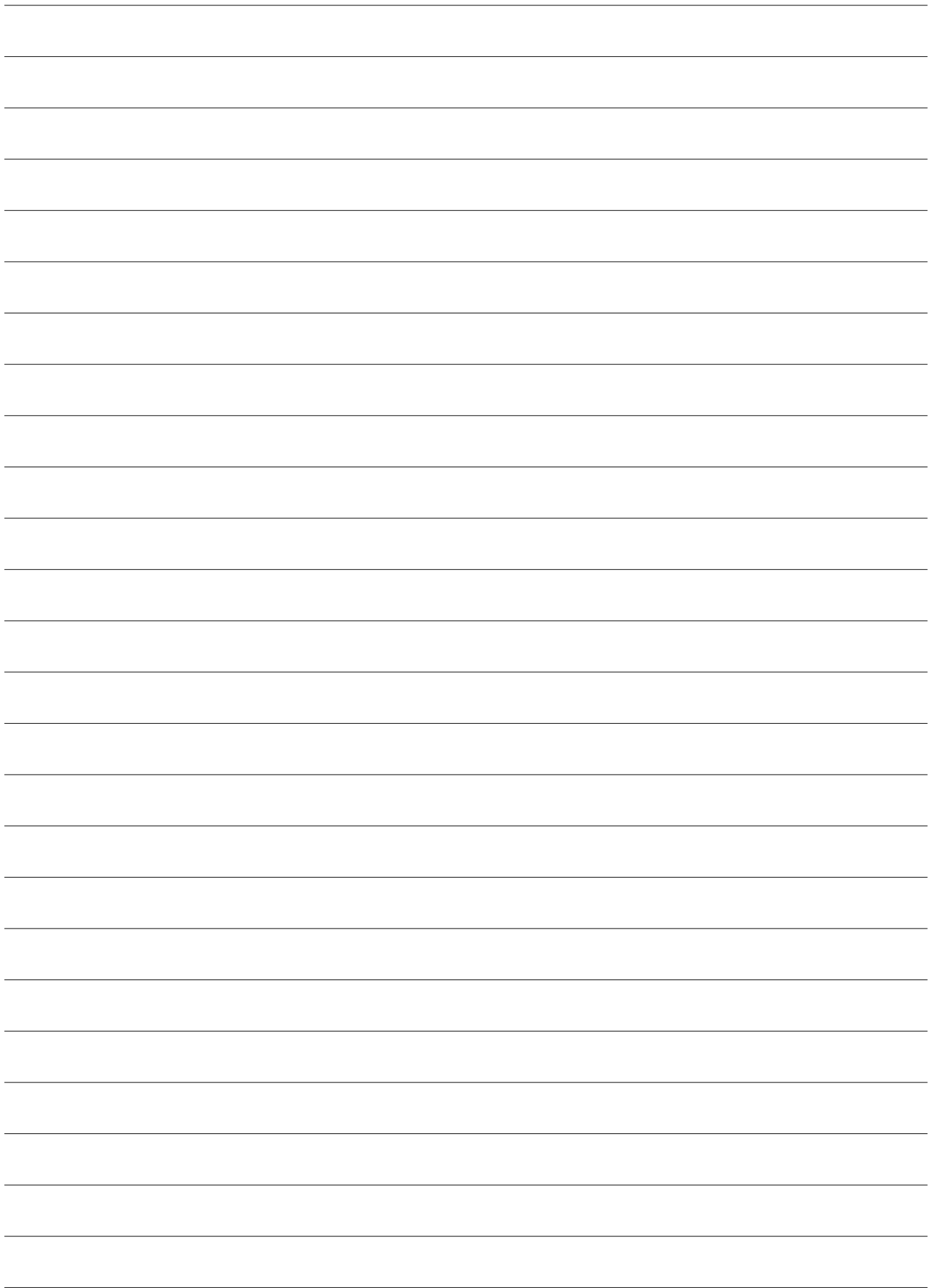
# Vibration and Noise Emission Values

## Material removal tools

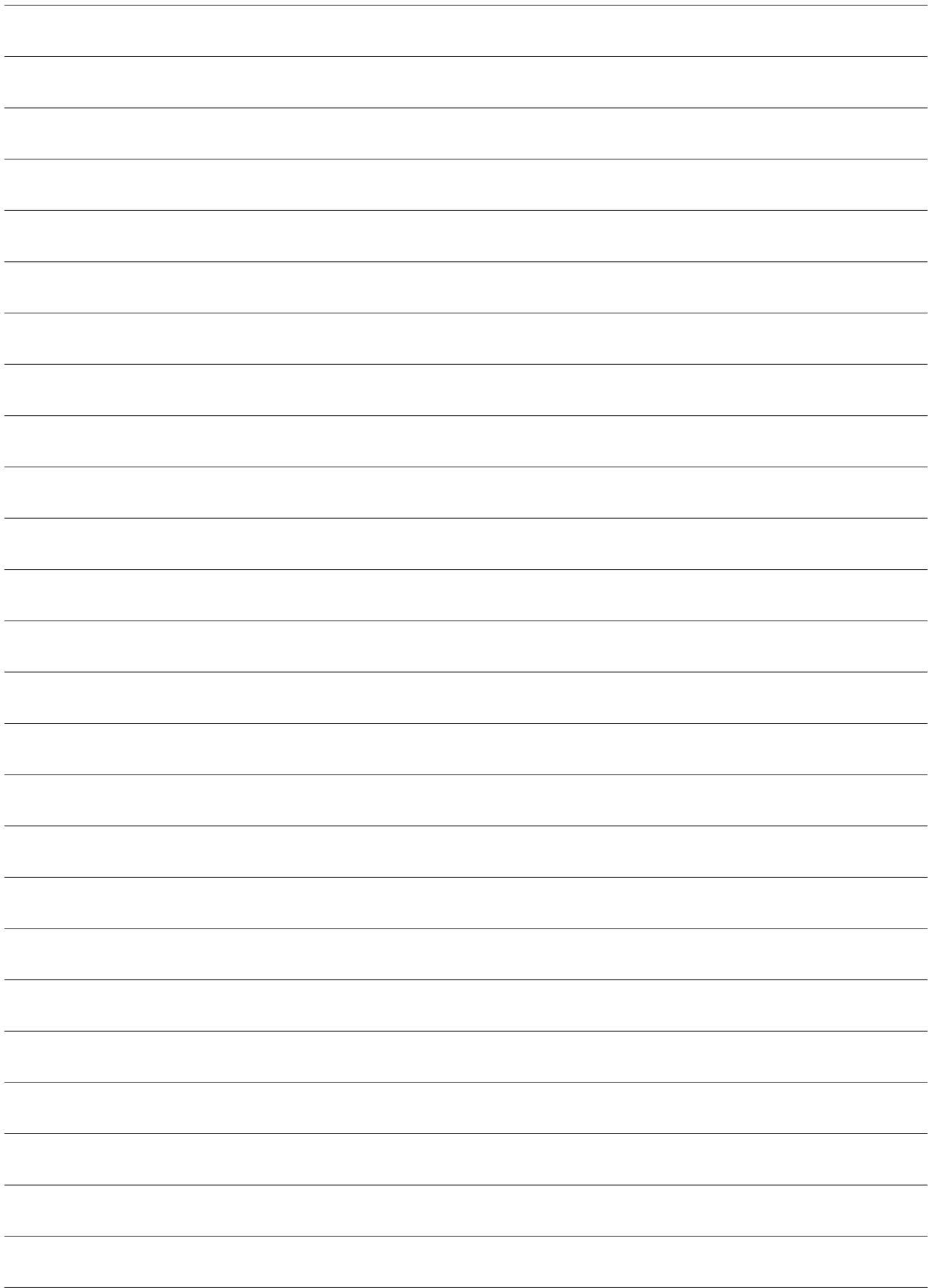
Model	Vibration total value (3 axes value) according to ISO 28927-5 Valid from 2010		Sound pressure levels and sound power levels <sup>a</sup> according to ISO 15744	
	Value 3-axes m/s <sup>2</sup>	Uncertainty m/s <sup>2</sup>	Sound pressure dB(A)	Sound power dB(A)
<b>Drills</b>				
<b>Pistol grip</b>				
LBB26 EPX	<2.5	-	82	93
LBB36	<2.5	-	83	94
LBB37	<2.5	-	86	97
LBB45 H017	<2.5	-	88	99
LBB45 H006	3.7	1.6	88	99
LBB45 H004	<2.5	-	88	99

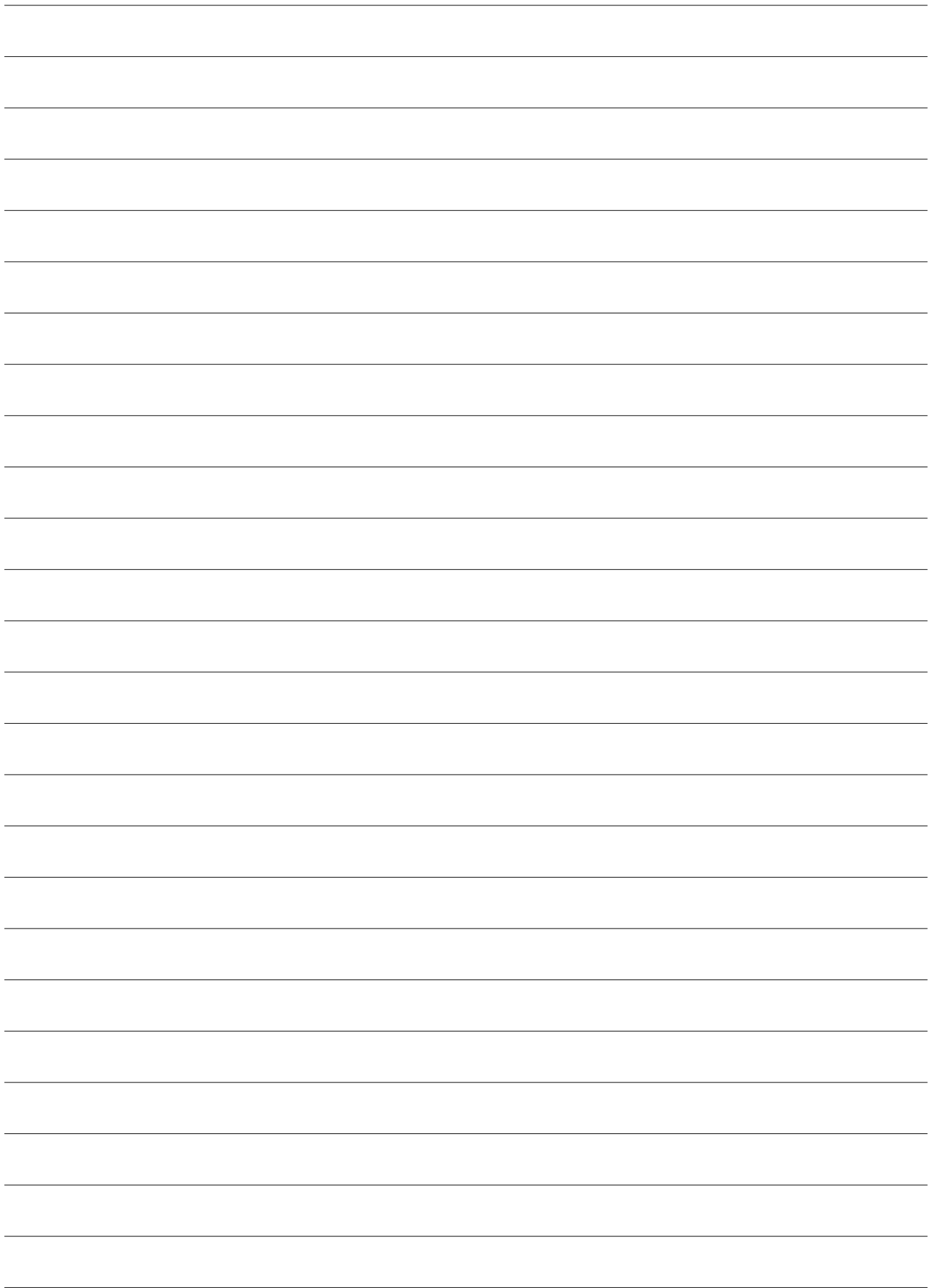
## Assembly tools

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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