Industrial Power Tools 2010

The world's premier productivity solutions

Sustainable Productivity

Atlas Copco

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Whatever your business, we can add value

The global technology leader, Atlas Copco is a true solutions provider to the manufacturing industries of the world. You will find the high-tech tools, assembly systems and process software of the future in our range today. From big bolt fastening technology for offroad vehicles, down to "micro" tools for tiny fasteners in the electronics industry, Atlas Copco has the solutions you need to stay ahead of the game.

You talk, we listen

For us, listening is crucial. Whether you build vehicles, aircraft, appliances or electronics, your ongoing feedback gives us valuable insights into your business and the challenges you face to remain competitive. Our response? A continuous stream of innovations that raise productivity in your operation.

We lead, others follow

Atlas Copco leads the world for high-tech operator-friendly tools supported by advanced process control and quality assurance software. We currently have more than 4,000 tools in our range and our dynamic product development program generates a large number of innovative new products every year.

Lean production

In the automotive and other industries our high-performance, hand-operated and fixtured assembly tools and extensive know-how make a major contribution to lean production. Every third car in the Western world was built using our cuttingedge fastening solutions.

Safety critical applications

On assembly lines in the manufacturing industries many joints are safety critical. Atlas Copco controlled fastening tools, fixtured solutions and market-leading assembly process software enable our customers to meet today's demands for joint validation, documentation and traceability.

Productivity starts with people

Atlas Copco continues to lead the field for ergonomically designed tools that minimize operator fatigue and increase individual productivity. Outstanding examples are our vibration-damped riveting systems, chosen by major aircraft manufacturers, and our turbo-powered grinders that have made heavy tasks lighter for tool operators in heavy metal fabrication operations.

Committed to sustainable productivity

Our brand promise embraces virtually all aspects of our operations. It means that Atlas Copco people do everything they can to ensure reliable, lasting results with responsible use of resources – human, natural and capital.

In our own operations worldwide we focus on maintaining a high competence level, and health and safety in the workplace. We constantly strive to reduce the impact of production on the environment.

A true innovator, Atlas Copco continuously develops new, energy efficient products with lowest cost of ownership. Safeguarding health and boosting productivity at our customers' plants through better ergonomics have long been part of our business philosophy.

All-in-all, we are acting for a better society around us.

Our commitment to your productivity is total

With resources in more than 90 countries, we can offer you a profitable partnership on a local or global basis. Atlas Copco product specialists, distributors and service engineers are on hand worldwide to share the responsibility for keeping your production on-line around the clock. We understand the challenges you face and our commitment to your productivity is total.

Customer Centers

Unique among competitors, Atlas Copco has Customer Centers throughout the world. Their common goal is to give you the best return on your investment. Once the tools are installed, our entire organization is dedicated to keeping your operation on-line.

Application centers

Our strategically located Application Centers configure complete assembly stations with process monitoring and control for the automotive, aerospace and other industries where joint quality is crucial. Using standard components we can deliver a complete tightening station for quality integrated fastening in just three weeks.

Whatever your language

We offer customer training and a wide range of training materials, including e-learning, interactive presentations and pocket guides in several languages. Operator and service instructions, supplied with all products, are available in 21 languages.

Order-driven production

At our tool plant, production is order driven and lead times are extremely short. Before leaving our factory every tool and system is rigorously tested. Quality control and test data are stored for each product.

Fast delivery

Place orders by phone or on-line. Orders received before 16:00 are packed and shipped the same day. European customers receive deliveries from our standard range within 24 to 48 hours from our worldwide distribution warehouse in Belgium. Deliveries to other continents take up to 72 hours.

Quality, every step of the way

Atlas Copco is a truly innovative company, continuously striving for excellence. Our dynamic product development program generates a large number of new products every year. We currently have more than 4,000 tools in our range and we own more than 400 patents. Covering all our operations, we have a quality target: To attain maximum quality at all stages from initial development to spare part deliveries.

Proof of company excellence

The ISO 9001 Certificate confirms that Atlas Copco Tools product company conforms to the Quality Standard ISO 9001. Our quality policy is:

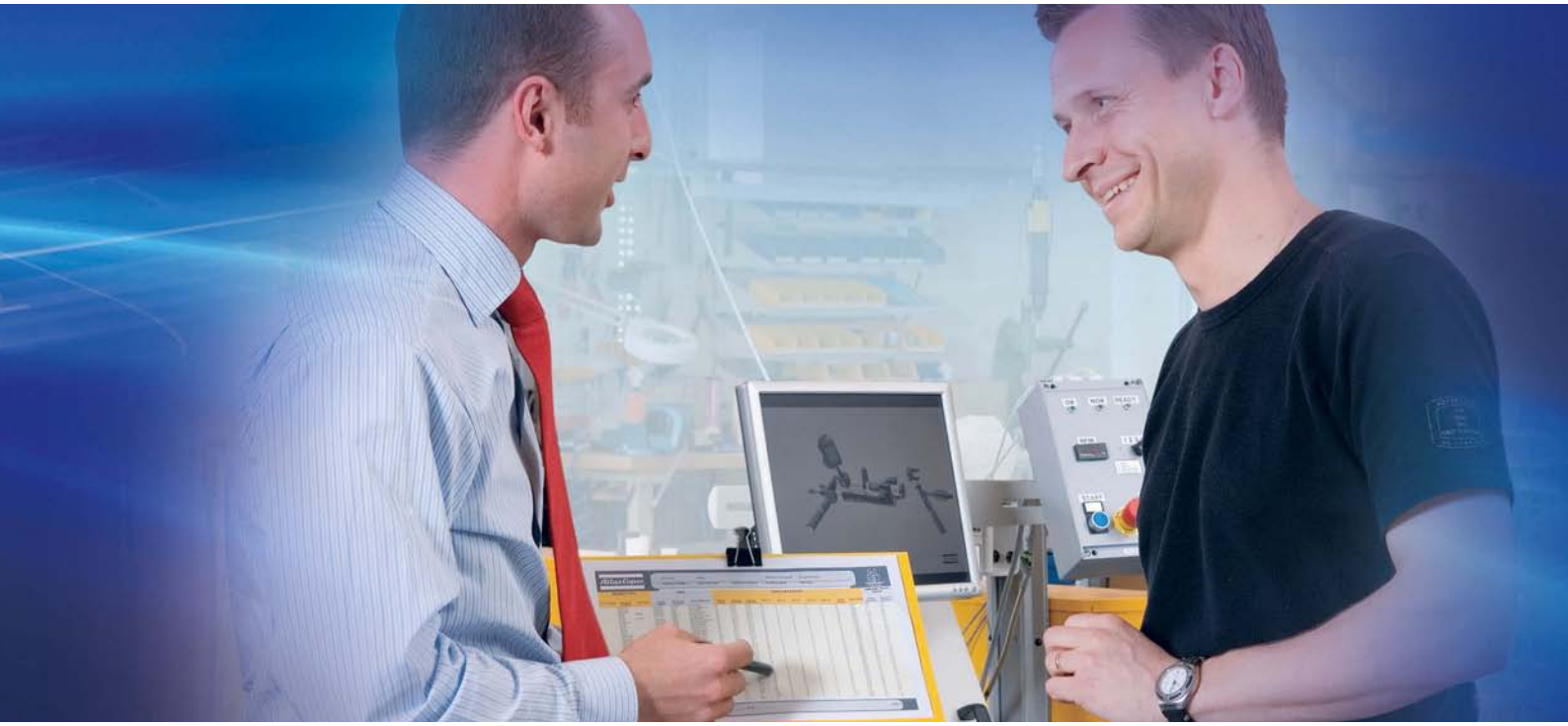
- To fulfill customers' expectations.
- To deliver problem-free products at the right time.
- To continuously improve our products, services and processes.
- To have motivated personnel with clearly defined goals.

In effect it means you know what you are getting. Carefully specified manufacturing processes guarantee that every product leaving our factory meets exactly the same standards of quality and performance.

EC declaration of conformity

From January 1, 1995, all machines produced by Atlas Copco conform with the EC Machine Directive which focuses on safety. From December 29, 2009 the directive is 2006/42/EC.

Each Atlas Copco tool bears the CE marking and is accompanied by detailed safety and operating instructions and a declaration of conformity.



Our obligations

- The manufacturer must ensure that the machine is designed in conformance with the standards laid down for the machine type in question.
- The machine must be accompanied by a declaration of conformity.
- The design project must be thoroughly documented.
- The sign affixed to the machine must carry:
  - Name and address of manufacturer.
  - Product designation and technical data, defined in the relevant standard.
  - The CE marking.
  - Country and year of manufacture.
- The machine must be accompanied by safety and operating instructions warning of possible hazards when the machine is in use. The instructions must also include a declaration of noise and vibration based on tests performed according to test codes such as EN standards or other recognized standards. The instructions must be written in all EC languages.

Ergonomics

Our goal is to supply the market with the most ergonomic and operator friendly tools available. For us ergonomics embraces all the factors involved in the interaction between the equipment and the operator. Important parameters are handle design, load on the operator, torque reaction from tightening tools, temperature, vibration emission, noise emission, dust and oil.

The vibration and noise values included in the instructions and in this catalogue are measured according to internationally accepted standards. For vibration we use the ISO 28927 series and for noise ISO 15744. The values are emission values primarily intended to compare tools.

Environment

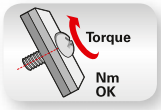
We continuously strive to reduce our environmental impact on nature and people. To achieve this we require our product companies to be certified according to ISO 14001. Our other major units are required to implement and become verified according the Atlas Copco Environmental Management System (EMS). EMS focus areas include:

- Design for Environment – including environmental criteria in our design process.
- Improving energy efficiency in our production and products.
- Reducing hazardous substances in our production and products.
- Promoting sustainability “best practice” in our supply chain.
- Supplying environmental information to our customers.
- Providing environmental awareness training for our employees.

Five steps to zero-fault fastening

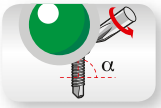
As joint fastening grows more complex, error-proofing becomes a key factor for the profitability of your operation. The later an assembly defect is identified, the more it costs to correct further down the line. At worst, it could reach the end customer and result in warranty claims and loss of goodwill. Leading the field for tightening process control, Atlas Copco has defined five steps towards zero-fault fastening.

Read more in the guide "Error proofed production – five steps to achieve zero fault fastening".



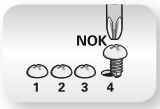
Step 1. To assure a correct tightening torque

The first step to zero fault production is obtained by using an assembly tool that delivers a precise and pre-determined torque. However, only the tightening torque is controlled at this first step, operators and work pieces are not yet involved in the monitoring process.



Step 2. To assure that all screws are tightened

One of the most common causes of a faulty assembly is the fact that the operator simply forgets to tighten a screw or makes a re-hit on an already tightened screw. The remedy against this possible error is to use an REcontroller. It monitors the tightening cycle and identifies a proper shut-off of a tool.



Step 3. To assure that the joint is correct

With step 1 and 2 the tool and the operator have been taken into consideration. However, the joint itself can also be a cause of the incorrect tightening. There can be several reasons for this. Missing parts like seals or washers will change the characteristics of the joint. Damaged threads or debris in the joint also lead to an improperly tightened joint.

The way to detect these types of faulty joints is to monitor the tightening angle during the tightening process.

Operator guidance and feedback is provided by signal lights on the tool and by using socket selectors etc.

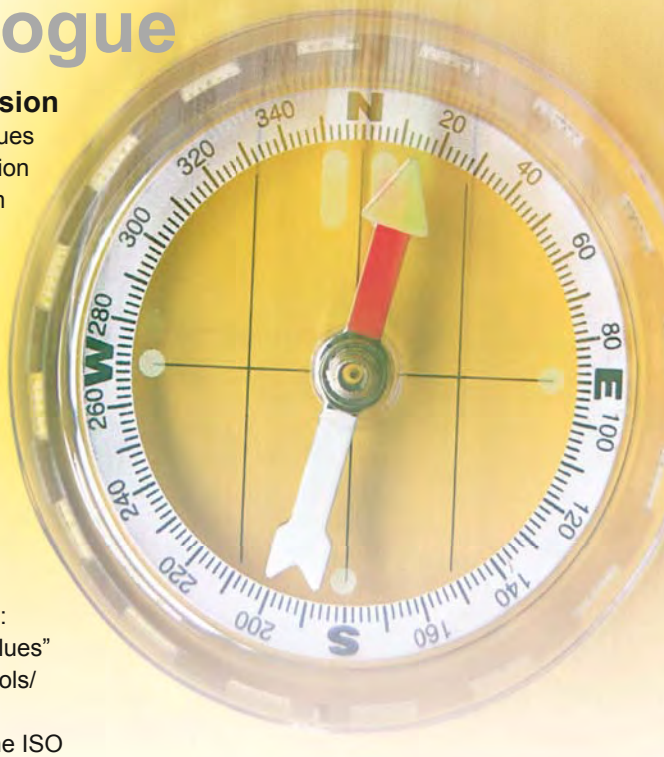
Step 4. To assure that safety critical joints are tightened properly

This is the level required for safety critical joints. All tightening data is documented and can be retrieved for error analyses. Documented tightening data for safety critical fasteners are essential in order to avoid or limit recalls and warranty claims.

Step 5. To assure zero fault production

Having reached step 4 in the advance to zero fault production still leaves room for mistakes. With step 5 two further elements are introduced for fault-free production. One element is the introduction of part identification, the other is reject management. With step five the tool controllers are not only networked – they are also connected to the factory network. Information about the components is sent over the factory network. By identifying the components that are to be assembled, relevant information is transferred to the tool controller via the network. This safeguards both that the correct component is being assembled and that corresponding tightening parameters are chosen.

Your guide to the catalogue



Accessories included

Under this heading a specification is given for each type of tool and of the parts (nipples, keys, guards, etc.) supplied with the tool. Instructions and a list of spare parts are always included in the package.

Optional accessories

Here you will find the specifications for most of the accessories. They are dependent on the job the tool is to be used for and have to be ordered separately.

Air consumption

The air consumption of the tools is stated in litres per second, l/s, and relates to free air, i.e., the compressed air expanded to atmospheric pressure. Unless otherwise stated, the figures are valid at a working pressure of 6.3 bar and indicate the maximum air consumption.

Maximum air consumption is valid for the tool without a speed governor when idling, i.e., when the tool is running at no load. A tool with a speed governor, has the maximum air consumption at the maximum power output.

Speed

The tool speeds are indicated in revolutions per minute, r/min, and indicate the idling speed, i.e., the speed at which the tool runs at no load and at a working pressure of 6.3 bar, if not otherwise specified. The speed at max. output is 50% of the idling speed for tools without a speed governor and 80 – 90% of the idling speed for tools with a speed governor.

Selected service kits to order

Under this heading, service kits for the most frequent service jobs done on the tool in question are listed.

Vibration and noise emission

Vibration and noise emission values are presented In a separate section at the end of the catalogue. From December 29, 2009 vibration emission shall be given as vibration total values (3-axes values). To avoid confusion both the old 1-axis vibration values, according to ISO 8662, and the new 3-axes values, according to ISO 28927, are given. At the time of publication values for all tools in the catalogue could not be given. For the most updated information use the pdf file: “Vibration and noise emission values” linked to www.atlascopco.com/tools/ergonomics.

Vibration values referring to the ISO 28927 are always given as a measured vibration value and an uncertainty. The uncertainty is an indication of the spread in the vibration when measured. The spread in the in-use vibration emitted in a real work situation is at least of the same magnitude, often considerably bigger.

Vibration values referring to ISO 28927 can in many cases also be used as rough estimates of the in-use vibration values when tools are used in typical applications.

In-use vibration is influenced by factors beyond our control such as poor maintenance, pirate parts, unbalanced grinding wheels, etc. For more information visit our website www.atlascopco.com/tools/ergonomics.

When measuring noise, Atlas Copco uses the standard ISO 15744. The figure given in this catalogue is the measured sound pressure level. If the measured value exceeds 80 dB(A), the sound power level is also given. The standards describe how to calculate this figure. The uncertainty in the figures from variations in the test method and production is 3 dB(A). In-use noise values close to the operator’s ear may differ considerably from the given values particularly since in many applications the sound from the process is higher than the unloaded tool noise.

We, Atlas Copco Tools AB, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a workplace situation over which we have no control. We recommend a program of health surveillance to detect early symptoms which may relate to noise or vibration exposure, so that management procedures can be modified to help prevent future impairment.

Length

1 in	=	0.0254 m
1 m	=	39.3701 in / 3.2808 ft
1 mm	=	0.0393701 in

Weight

1 lb	=	0.4536 kg
1 kg	=	2.2046 lb

Torque

1 kpm	=	9.8067 Nm
1 Ft lb	=	1.3558 Nm

Torque

1 In lb	=	0.1130 Nm
1 Nm	=	0.1020 kpm
		0.7376 ft lb

Pressure

1 bar	=	100 kPa
1 kp/cm^2 (at)	=	98.0665 kPa
1 psi	=	6.8948 kPa
1 kPa	=	0.0101972 kp/cm^2 (at)

Power

1 kpm/s	=	9.8067 W
1 hp	=	745.7 W
		101.972 kpm/s
1 kW	=	1.3410 hp

Flow

1 m^3/min	=	16.6667 l/s
1 cfm	=	0.4720 l/s
1 m^3/h	=	0.2778 l/s
1 l/s	=	2.1189 cfm

Pneumatic Assembly Tools

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Fast, accurate and operator friendly

Atlas Copco supplies a broad range of pneumatic assembly tools designed to give you highest possible productivity on your assembly line. The result of decades of development, the tools include ergonomically designed screwdrivers, pulse tools, nutrunners and impact wrenches, that offer superior productivity. High productive tools means less air consumption that translates into big energy savings since energy consumption and CO_2 emissions are reduced. Vibration and noise levels are minimized, power-to-weight ratios are high. It all adds up to maximum operator comfort and highest individual productivity.

Impact wrenches (LMS, LTS)

Impact wrenches have unmatched speed and power-to-weight characteristics, which makes them ideal e.g. for loosening applications. They productify raw power and cover a wide torque range including both non shut-off and shut-off models. They are also reaction free.

Impulse tools (ErgoPulse XS, PTS, PTX)

Impulse tools are the ideal choice for fast and reaction-free one-hand tightenings. They have the same advantages as impact wrenches but with higher accuracy. In addition you will get a tool with good ergonomics, which means lower sound levels and less vibrations. Pulse tools also have a longer service life. They come in non shut-off and shut-off version.

Controlled impulse tools (Pulsor C)

The Pulsor C is a further developed pulse tool with advanced error-proofing functionality. It is a multi torque pulse tool for quality critical tightenings offering complete control of the tightening process with result reporting.

Screwdrivers

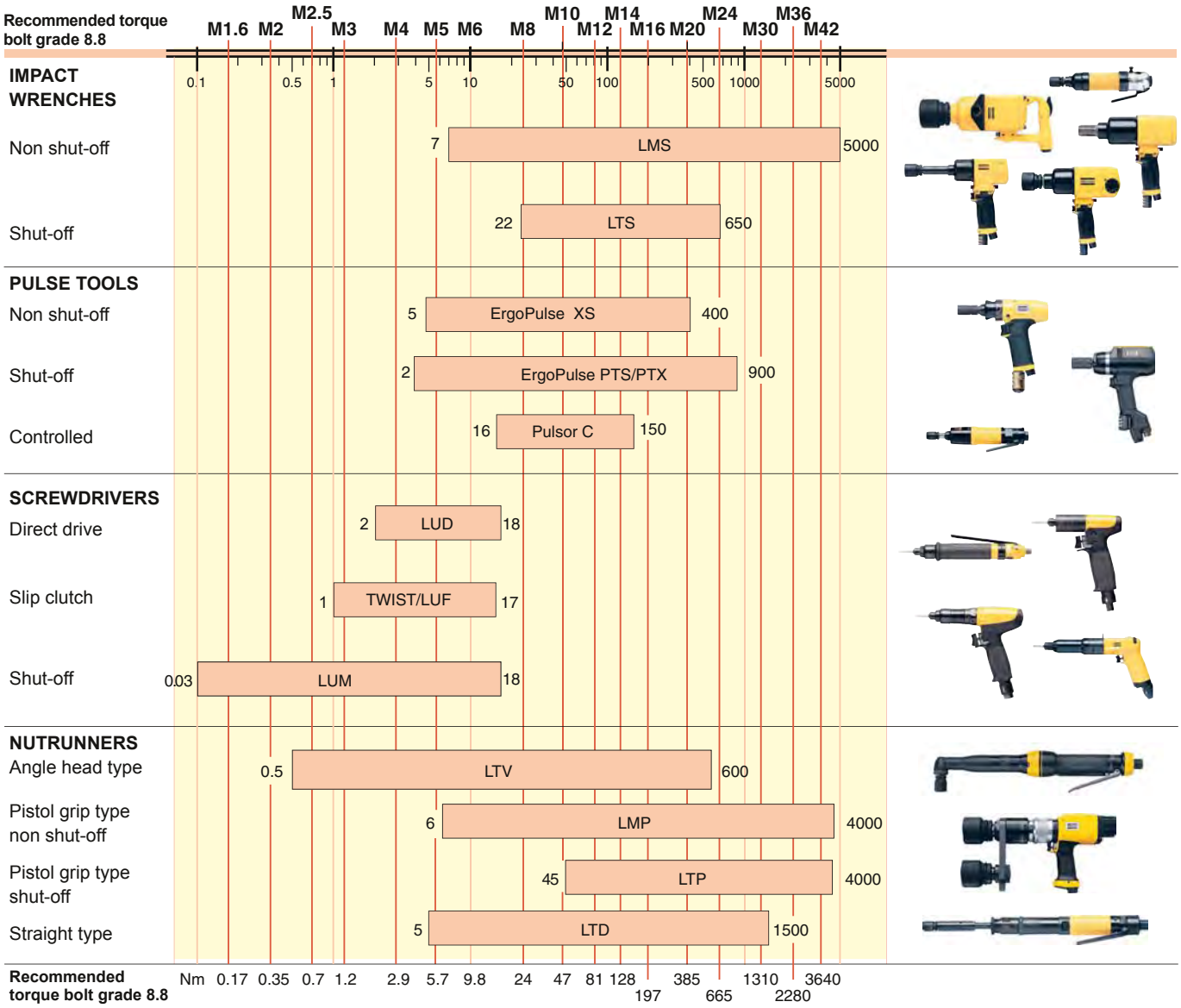
We offer a wide range of extremely accurate, ergonomically designed screwdrivers for all kinds of jobs involving smaller screw sizes, up to M6. All models are lubrication-free.

- **Direct drive** (LUD, LUF, HRD)
  The low cost alternative for wood and self-drilling screws.
- **Slip clutch** (TWIST, LUF)
  Best for sheet metal screws, wood screws or self-tapping screws.
- **Shut-off contro**l (LUM)
  Best practice in most cases, especially for machine screws and screws in plastic. Very good accuracy and lowest bit consumption.

Nutrunners

Suitable for all kinds of tightening tasks from 0.5 Nm, nutrunners in Atlas Copco's extensive range are extremely accurate. Due to their ergonomic designs they are also very comfortable to operate. All models are lubrication-free.

- **Angle and straight type** (LTV, LTD)
  Accurate workhorses for limited spaces suitable for high volume serial production. Very good accuracy, small angle head and possible to attach special heads. Low noise and vibration levels.
- **Pistol grip type** (LMP, LTP)
  High torque tools for super fast, accurate tightenings. Low noise, and low vibration tools for operator comfort.



Torque recommendations

The torque is important to ensure the required clamping force. The table shows the recommended max tightening torque for the most common types of screws and bolts: untreated, oil-smeared screws (friction coefficient = 0.125) with metric coarse thread. The torque corresponds to approximately 62% of tensile stress.

M-threaded screws/bolts Tightening torque Nm, according to ISO 898/1

	Bolt grade								Bolt grade						
Thread	3.6	4.6	4.8	5.8	8.8	10.9	12.9	Thread	4.6	4.8	5.8	8.8	10.9	12.9
M1.6	0.05	0.065	0.086	0.11	0.17	0.24	0.29	M14	48	58	80	128	181	217
M2	0.10	0.13	0.17	0.22	0.35	0.49	0.58	M16	74	88	123	197	277	333
M2.2	0.13	0.17	0.23	0.29	0.46	0.64	0.77	M18	103	121	172	275	386	463
M2.5	0.20	0.26	0.35	0.44	0.70	0.98	1.20	M20	144	170	240	385	541	649
M3	0.35	0.46	0.61	0.77	1.20	1.70	2.10	M22	194	230	324	518	728	874
M3.5	0.55	0.73	0.97	1.20	1.90	2.70	3.30	M24	249	295	416	665	935	1120
M4	0.81	1.10	1.40	1.80	2.90	4.00	4.90	M27	360	435	600	961	1350	1620
M5	0.60	2.20	2.95	3.60	5.70	8.10	9.70	M30	492	590	819	1310	1840	2210
M6	2.80	3.70	4.90	6.10	9.80	14.0	17.0	M36	855	1030	1420	2280	3210	3850
M8		8.90	10.50	15.0	24.0	33.0	40.0	M42	1360		2270	3640	5110	6140
M10		17.0	21.0	29.0	47.0	65.0	79.0	M45	1690		2820	4510	6340	7610
M12		30.0	36.0	51.0	81.0	114.0	136.0	M48	2040		3400	5450	7660	9190

High accuracy, good ergonomics

Atlas Copco pneumatic screwdrivers bring accuracy and good ergonomics into the production process, while offering robust, reliable designs. The range includes models to fit any low torque application. The tools are available in pistol grip, angle and straight configurations with drive types spanning a wide range of speeds and torques.

In this range of pneumatic screwdrivers, the proven and patented Atlas Copco clutch design gives high torque accuracy and repeatable results over time. All screwdrivers are lightweight, with optimum non-slip grip and handle design for operator comfort. A fast clutch shut-off gives minimum reaction impulse, thus reducing operator strain. All Atlas Copco screwdrivers are lubrication-free.

A complete range

Our pneumatic screwdrivers are available in pistol grip, angle and straight configurations. The LUM, TWIST, LUF and LUD models are pistol grip and straight tools, and the LTV and TWIST VR are angle tools.

Shut-off type screwdrivers

LUM and LTV models have a fast and accurate shut-off clutch for smooth performance and high quality tightening. They are suitable for joints with demands on torque accuracy, providing accurate tightening time-after-time, independent of variations in joint stiffness. Electro Static Discharge (ESD) approved models and RE models are available in this range. RE models enable a signal to be received from the tool, in order to control batch count. All RE models need to be combined with an external RE control system. Shut-off tools are the best choice for machine screws, thread-rolling screws and thread-forming screws for plastic.

Slip clutch type screwdrivers

TWIST and LUF HR screwdrivers have a slip clutch that applies a pulsating force when the torque level is reached. These tools are suitable where the torque level may temporarily rise during the rundown phase, for instance when using sheet metal screws, wood screws or self-tapping screws.

Direct drive type screwdrivers

LUD and LUF HRD are direct drive screwdrivers that stall when final torque is reached. The torque level is adjusted by regulating the air pressure. LUD and LUF HRD are mainly used for self-drilling and wood screws.

SCREW TYPE		SCREWDRIVER							
Machine screw 4.8 Property class 4.8 normal for cross recessed and slotted screws	Ø Screw size	**M1.6**	**M2**	**M2.5**	**M3**	**M3.5**	**M4**	**M5**	**M6**
	Torque Nm/in lb	0.09/0.8	0.2/1.8	0.4/3.5	0.6/5.3	1.0/8.8	1.4/12.4	2.9/25.7	4.9/43.4
	Recommended tool	LUM02 LUM10 LUM12 LUM22 LTV009 LTV18 LUM32							
Machine screw 8.8 Property class 8.8 normal for hexagon, Allen head and Torx® Locking nut with plastic insert, increase torque 10%, mechanical-lock nut, increase torque 20%	Ø Screw size	**M1.6**	**M2**	**M2.5**	**M3**	**M3.5**	**M4**	**M4.5**	**M5**	**M6**
	Torque Nm/in lb	0.2/1.8	0.4/3.5	0.7/6.2	1.2/10.6	1.9/16.8	2.9/25.7	4.3/38.1	5.7/50.4	9.8/86.7
	Recommended tool	LUM02 LUM10 LUM12 ☼ LUM22 LTV009 LTV18 LUM32								
Thread rolling screw-M Property class between 8.8 and 10.9 due to case hardening. Taptite® and Swageform are examples	Ø Screw size		**M2**		**M3**		**M4**	**M5**	**M6**
	Torque Nm/in lb		0.5/4.4		1.4/12.4		3.2/28.3	6.5/57.5	11.0/97.3
	Recommended tool	LUM02 LUM10 LUM12 ☼ LUM22 LTV009 LTV18 LUM32							
Thread forming screw-ST	Ø Screw size	**ST2.2**	**ST2.9**	**ST3.5**	**ST4.2**	**ST4.8**	**ST5.5**	**ST6.3**	
	Torque Nm/in lb	0.3/2.7	1.0/8.8	1.8/15.9	2.9/25.7	4.2/37.2	6.7/59.3	9.1/80.5	
	Recommended tool	✸ TWIST12/22 LUF34							
Thread forming screw-ST for plastic	Ø Screw size	**ST2.2**	**ST2.9**	**ST3.5**	**ST4.2**	**ST4.8**	**ST5.5**	**ST6.3**	
	Torque Nm/in lb	0.3/2.7	1.0/8.8	1.8/15.9	2.9/25.7	4.2/37.2	6.7/59.3	9.1/80.5	
	Recommended tool	LUM02 LUM10 LUM12 ☼ LUM22 LTV009 LTV18 LUM32							
Self drilling screw-ST	Ø Screw size	**ST2.2**	**ST2.9**	**ST3.5**	**ST4.2**	**ST4.8**	**ST5.5**	**ST6.3**	
	Torque Nm/in lb	0.3/2.7	1.0/8.8	1.8/15.9	2.9/25.7	4.2/37.2	6.7/59.3	9.1/80.5	
	Recommended tool	TWIST12 LUD LUF34							
Wood screw	Torque Nm/in lb	1.5/13.3	3/26.5	5/44.2	7.5/66.4	12/106.2			
	Recommended tool	LUD12/22 TWIST12/22 LUF34							

Shut-off clutch | Slip clutch | Direct drive

✸ With optional coupling-ring. Ordering No. 4210 2316 01

☼ With optional spring. Ordering No. 4210 1831 00

The LUM pistol grip range comes in several different configurations:

- HR: Model with non-balanced grip can be used with high grip when feed force is needed or with low grip for minimal reaction force.
- HRX: Model with balanced grip perfectly balanced for standard pistol grip applications.
- HRF: Balanced grip with multiple air inlets for flexible connection.

RE reporting models are available, designated with suffix –RE. Soft stop options are available, designated with the suffix SS.

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With trigger start												
LUM22 HR3	0.6 - 3	5.3 - 26.5	2200	0.85	1.9	186	18	7.5	16	8	1/4	8431 0269 00
LUM22 HR3-RE	0.6 - 3	5.3 - 26.5	2200	0.85	1.9	186	18	7.5	16	8	1/4	8431 0278 63
LUM22 HR4	0.6 - 4	5.3 - 35.4	1650	0.85	1.9	186	18	7.5	16	8	1/4	8431 0269 02
LUM22 HR4-RE	0.6 - 4	5.3 - 35.4	1650	0.85	1.9	186	18	7.5	16	8	1/4	8431 0278 65
LUM22 HR6	1.5 - 6.5	13.3 - 57.5	1150	0.85	1.9	186	18	7.5	16	8	1/4	8431 0269 01
LUM22 HR6-RE	1.5 - 6.5	13.3 - 57.5	1150	0.85	1.9	186	18	7.5	16	8	1/4	8431 0278 64
LUM22 HR10	3.5 - 10	31 - 88.5	750	1	2.2	218	18	7.5	16	10	1/4	8431 0269 03
LUM22 HR10-RE	3.5 - 10	31 - 88.5	750	1	2.2	218	18	7.5	16	10	1/4	8431 0278 66
LUM22 HR12	3.5 - 12.5	31 - 110.6	500	1	2.2	210	18	7.5	16	10	1/4	8431 0269 04
LUM22 HR12-370	3.5 - 12.5	31 - 110.6	370	1	2.2	210	18	7.5	16	10	1/4	8431 0269 05
LUM22 HR12-RE	3.5 - 12.5	31 - 110.6	500	1	2.2	210	18	7.5	16	10	1/4	8431 0278 67
LUM32 HR10	5 - 10	44.2 - 88.5	750	0.72	1.6	183	18.5	7.5	16	10	1/4	8431 0269 90
LUM32 HR15	7.5 - 15.5	66 - 137.2	450	0.72	1.6	183	18.5	7.5	16	10	1/4	8431 0269 91
With trigger and push start												
LUM22 HR3-P	0.6 - 3	5.3 - 26.5	2200	0.85	1.9	186	21	7.5	16	8	1/4	8431 0269 06
LUM22 HR4-P	0.6 - 4	5.3 - 35.4	1650	0.85	1.9	186	21	7.5	16	8	1/4	8431 0269 08
LUM22 HR6-P	1.5 - 6.5	13.3 - 57.5	1150	0.85	1.9	186	21	7.5	16	8	1/4	8431 0269 07
LUM22 HR10-P	3.5 - 10	31 - 88.5	750	1	2.2	218	21	7.5	16	10	1/4	8431 0269 09
LUM22 HR12-P	3.5 - 12.5	31 - 110.6	500	1	2.2	210	21	7.5	16	10	1/4	8431 0269 10
LUM22 HR12-370-P	3.5 - 12.5	31 - 110.6	370	1	2.2	210	21	7.5	16	10	1/4	8431 0269 11

Continued....

Pistol Grip Models

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Balanced grip models with trigger start												
LUM12 HRX1	0.6- 1.8	5.3- 15.9	2300	0.65	1.4	176	15	6	13	6	1/8	8431 0278 58
LUM12 HRX1-50	0.6- 1.8	5.3- 15.9	50	0.7	1.5	196	16	6	13	6	1/8	8431 0279 58
LUM12 HRX1-110	0.6- 1.8	5.3- 15.9	110	0.7	1.5	196	16	6	13	6	1/8	8431 0279 60
LUM12 HRX1-RE	0.6- 1.8	5.3- 15.9	2300	0.65	1.4	176	16	6	13	6	1/8	8431 0278 59
LUM12 HRX2	0.6- 2.5	5.3- 22.1	1650	0.65	1.4	176	16	6	13	6	1/8	8431 0278 56
LUM12 HRX2-RE	0.6- 2.5	5.3- 22.1	1650	0.65	1.4	176	16	6	13	6	1/8	8431 0278 57
LUM12 HRX3	0.4- 3.5	5.3- 31.9	1150	0.7	1.5	186	16	6	13	6	1/8	8431 0278 54
LUM12 HRX3-RE	0.4- 3.5	3.5- 31.9	1150	0.7	1.5	186	16	6	13	6	1/8	8431 0278 55
LUM12 HRX5	0.4- 5	3.5- 44.2	850	0.7	1.5	186	16	6	13	6	1/8	8431 0278 51
LUM12 HRX5-RE	0.4- 5	3.5- 44.2	850	0.7	1.5	186	16	6	13	6	1/8	8431 0278 53
LUM12 HRX5-170	0.4- 5	3.5- 44.2	170	0.7	1.5	196	16	6	13	6	1/8	8431 0278 47
LUM12 HRX5-350	0.4- 5	3.5- 44.2	350	0.7	1.5	186	16	6	13	6	1/8	8431 0278 48
LUM12 HRX5-350-RE	0.4- 5	3.5- 44.2	350	0.7	1.5	186	16	6	13	6	1/8	8431 0278 49
LUM12 HRX8	1.5- 8	13.3- 70.8	500	0.7	1.5	186	16	6	13	6	1/8	8431 0278 60
LUM12 HRX8-250	1.5- 8	13.3- 70.8	250	0.7	1.5	186	16	6	13	6	1/8	8431 0278 69
LUM12 HRX8-RE	1.5- 8	13.3- 70.8	500	0.7	1.5	186	16	6	13	6	1/8	8431 0278 61
LUM12 HRX8-50	1.5- 8	13.3- 70.8	50	0.7	1.5	196	16	6	13	6	1/8	8431 0280 25
LUM12 HRX8-110	1.5- 8	13.3- 70.8	110	0.7	1.5	196	16	6	13	6	1/8	8431 0280 27
LUM22 HRX2	1.2- 2[a]	10.6- 17.7	4500	0.9	2	187	18	9	19	8	1/4	8431 0269 29
LUM22 HRX2-3200	1.1- 2.6[a]	9.7- 23	3200	0.9	2	187	18	9	19	8	1/4	8431 0278 85
LUM22 HRX3	0.6- 3[a]	5.3- 26.5	2250	0.9	2	187	18	9	19	8	1/4	8431 0269 22
LUM22 HRX3.5	0.6- 3.5	5.3- 29.2	2250	0.9	2	187	18	9	19	8	1/4	8431 0269 99
LUM22 HRX3-RE	0.6- 3[a]	5.3- 26.5	2250	0.9	2	187	18	9	19	8	1/4	8431 0278 70
LUM22 HRX4	0.6- 4[a]	5.3- 35.4	1650	0.9	2	187	18	9	19	8	1/4	8431 0269 20
LUM22 HRX6	1.5- 6.5[a]	13.3- 57.5	1100	0.95	2.1	197	18	9	19	8	1/4	8431 0269 21
LUM22 HRX6-RE	1.5- 6.5[a]	13.3- 57.5	1100	0.95	2.1	197	18	9	19	8	1/4	8431 0278 71
LUM22 HRX10	3.5- 10[a]	31- 88.5	800	1.1	2.4	219	18	9	19	10	1/4	8431 0269 23
LUM22 HRX10-RE	3.5- 10[a]	31- 88.5	800	1.1	2.4	219	18	9	19	10	1/4	8431 0278 73
LUM22 HRX11-220	3.5-12.5[a]	31-110.6	220	1.15	2.5	229	18	9	19	10	1/4	8431 0282 20
LUM22 HRX12	3.5-12.5[a]	31-110.6	500	1.1	2.4	211	18	9	19	10	1/4	8431 0269 24
LUM22 HRX12-RE	3.5-12.5[a]	31-110.6	500	1.1	2.4	211	18	9	19	10	1/4	8431 0278 74
LUM22 HRX12-50	3.5-12.5[a]	31-110.6	50	1.15	2.5	229	18	9	19	10	1/4	8431 0280 26
LUM22 HRX12-120	3.5-12.5[a]	31-110.6	120	1.15	2.5	229	18	9	19	10	1/4	8431 0280 28
LUM22 HRX12-370	3.5-12.5[a]	31-110.6	370	1.1	2.4	211	18	9	19	10	1/4	8431 0269 25
LUM22 HRX12-370-RE	3.5-12.5[a]	31-110.6	370	1.1	2.4	211	18	9	19	10	1/4	8431 0278 75
LUM22 HRX26[b]	3- 26	26.6- 230	220	1.2	2.6	233	18	9	19	10	1/4	8431 0269 39
Balanced grip models with trigger start and soft stop function												
LUM10 HRX1-SS	0.2- 0.6	1.8- 5.3	800	0.65	1.4	176	16	6	13	6	1/8	8431 0280 02
LUM12 HRX1-SS	0.6- 1.3	5.3- 11.5	800	0.65	1.5	176	16	6	13	6	1/8	8431 0280 01
Multiple air inlet models and air-on-top models with trigger start												
LUM12 HRF2	0.6- 2.5	5.3- 22.1	1650	0.65	1.4	190	16	6	13	6	1/8	8431 0269 31
LUM12 HRF3	0.4- 3.6	3.5- 31.9	1150	0.7	1.5	200	16	6	13	6	1/8	8431 0269 32
LUM12 HRF5	0.4- 5	3.5- 44.2	850	0.7	1.5	200	16	6	13	6	1/8	8431 0269 33
LUM12 HRF8	1.5- 8	13.3- 70.8	500	0.7	1.5	200	16	6	13	6	1/8	8431 0269 34
LUM25 HRF11-U	3.5- 5.5[a]	31- 49	1100	1.2	2.6	226	26	6	13	8	1/4	8431 0249 09
LUM25 HRF08-U-RE	3.5- 7.5[a]	31- 66	800	1.2	2.6	226	26	6	13	8	1/4	8431 0264 98
LUM25 HRF08-U	3.5- 7.5[a]	31- 66	800	1.2	2.6	226	26	6	13	8	1/4	8431 0249 07
LUM25 HRF05-U-RE	3.5-12.0[a]	31- 110	500	1.2	2.6	226	26	6	13	8	1/4	8431 0264 96
LUM25 HRF05-U	3.5-12.0[a]	31- 110	500	1.2	2.6	226	26	6	13	8	1/4	8431 0249 05

[a] 1.4-4 Nm with spring, Ordering No. 4210 1831 00.
[b] 1/4" square drive.

All models: Are reversible and have quick change chuck.
All data at an air pressure of 6.3 bar.
For operator comfort a support handle is recommended for high torque, see Optional Accessories.

The LUD and LUF pistol grip range comes in several different configurations:

- HR/HRD: Model with non balanced grip can be used with high grip when feed force is needed or with low grip for minimal reaction force.
- HRX: Models with balanced grip are perfectly balanced for standard pistol grip applications.

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With trigger start												
LUD12 HRX2	1 - 2.5	8.8 - 22.1	1600	0.5	1.1	115	16	6.5	14	8	1/8	8431 0278 77
LUD12 HRX5	2 - 5	17.7 - 44.2	850	0.5	1.1	125	16	6.5	14	8	1/8	8431 0278 78
LUD12 HRX8	3.5 - 8	31.0 - 70.8	500	0.5	1.1	125	16	6.5	14	8	1/8	8431 0278 79
LUD22 HR3	1.5 - 2.8	13.3 - 24.8	3600	0.65	1.4	125	18	8	17	8	1/4	8431 0269 17
LUD22 HR5	2.8 - 5.5	24.8 - 48.7	1650	0.65	1.4	125	18	8	17	8	1/4	8431 0269 18
LUD22 HR12	5 - 12	44.2 - 106.2	750	0.75	1.7	143	18	8	17	8	1/4	8431 0269 19
LUF34 HRD04	8.0 - 18.0	71 - 160	440	1.2	2.6	212	20	9	19	10	1/4	8431 0311 22
LUF34 HRD08	8.0 - 11.0	71 - 97	750	1.2	2.6	212	20	9	19	10	1/4	8431 0311 24
LUF34 HRD16	4.0 - 8.0	35 - 71	1600	0.9	2.0	179	20	9	19	10	1/4	8431 0311 26
LUF34 HRD21	2.2 - 4.5	20 - 40	2000	0.9	2.0	179	20	9	19	10	1/4	8431 0311 28
Reversible drill, tapper and screwdriver												
COMBI22 HR10	5.0 - 10.0	44 - 89	800	1.1	2.4	240	20	7	15	8	1/4	8431 0255 62
COMBI22 HR5	2.7 - 5.7	24 - 50	1600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 80
COMBI22 HR2	2.0 - 2.7	18 - 24	3600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 89
COMBI34 HR04	8.0 - 18.0	71 - 160	400	1.5	3.3	228	20	9	19	10	1/4	8431 0311 32
COMBI34 HR08	8.0 - 11.0	71 - 97	750	1.3	2.9	218	20	9	19	10	1/4	8431 0311 34
COMBI34 HR16	4.0 - 8.0	35 - 71	1600	1.0	2.2	179	20	9	19	10	1/4	8431 0311 36

All models: Are reversible.
Female hexagon drive for bits: 1/4" on pistol grip models.
Combi-tools are delivered with drill chuck and 1/4" female hex drive for bits.
Torque at min 3 bar and max 6 bar.

Pistol Grip Models

The TWIST and LUF pistol grip range comes in several different configurations:

- HR: Model with non-balanced grip can be used with high grip when feed force is needed or with low grip for minimal reaction force.
- HRX: models with balanced grip are perfectly balanced for standard pistol grip applications.
- HRF: Balanced grip with multiple air inlets for flexible connection.

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With trigger and push start												
TWIST12 HRX2	0.6 - 2.4	5.3 - 21.2	1650	0.65	1.4	176	15	6.5	14	6	1/8	8431 0278 40
TWIST12 HRX3	0.6 - 3.5	5.3 - 31.0	1150	0.65	1.4	186	15	6.5	14	6	1/8	8431 0278 39
TWIST12 HRX4	0.5 - 4.4	4.4 - 38.9	800	0.65	1.4	186	15	6.5	14	6	1/8	8431 0278 38
TWIST22 HRX7	1.5 - 7.5	13.3 - 66.4	1100	1.05	2.3	205	15	9	19	8	1/4	8431 0269 26
TWIST22 HRX10	1.5 - 10	13.3 - 88.5	750	1.1	2.4	205	15	9	19	8	1/4	8431 0269 27
TWIST22 HRX12	5 - 12	44.2 -106.2	500	1.05	2.3	205	15	9	19	8	1/4	8431 0269 28
TWIST22 HR3	1.0 - 3.5	8.9 - 31	2100	0.95	2.1	195	15	8	17	8	1/4	8431 0278 86
TWIST22 HR6	2.2 - 6.5	19.5 - 57.5	1600	0.95	2.1	195	15	8	17	8	1/4	8431 0269 70
TWIST22 HR7	1.5 - 7.5	13.3 - 66.4	1150	0.95	2.1	195	15	8	17	8	1/4	8431 0269 14
TWIST22 HR10	1.5 -10.0	13.3 - 88.5	750	1	2.2	205	15	8	17	8	1/4	8431 0269 15
TWIST22 HR12	5.0 -12.0	44.2 -106.2	500	1	2.2	195	15	8	17	8	1/4	8431 0269 16
LUF34 HR04	3.0 -17.0	27.0 -150.0	440	1.4	3.1	265	21	9.5	19	8	1/4	8431 0311 05
LUF34 HR08	2.0 -15.0	18.0 -133.0	750	1.4	3.1	265	21	9.5	19	8	1/4	8431 0311 09
LUF34 HR16	3.0 -12.0	27.0 -107.0	1600	1.4	3.1	265	21	9.5	19	8	1/4	8431 0311 17
Multiple air inlet models (12) and air-on-top models with trigger start and push start												
TWIST12 HRF3	0.6 - 3.5	5.3 - 31	1150	0.7	1.5	200	15	6	2.8	6	1/8	8431 0269 41
TWIST12 HRF4	0.5 - 4.4	4.4 - 38.9	850	0.7	1.5	200	15	6	2.8	6	1/8	8431 0269 40
TWIST HRF08[a]	1.5 - 7.5	13.0 - 66.0	800	1.2	2.6	212	25	7	15	8	1/4	8431 0252 42
TWIST HRF16[a]	2.2 - 6.5	20.0 - 58.0	1600	1.2	2.6	212	25	7	15	8	1/4	8431 0252 44

[a] Only air-on-top models.

All models: Are reversible.
Female hexagon drive for bits: 1/4".
Have quick change chuck.

Straight screwdrivers should be used with a torque arm for best ergonomics.

LUM straight screwdrivers come in two different configurations:

- PR: Model with push-to-start function and reverse button.
- SR: Model with lever start function and reverse ring.

RE reporting conversion kits are available for SR models, see accessory page.

Soft stop options are available, designated with the suffix -SS.

LUM12 PR

LUM12 SR

LUM02 PR

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With push start and button reverse												
LUM02 PR04-1800	0.03 - 0.32	0.027 - 0.29	1800	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 02
LUM02 PR04-1200	0.03 - 0.32	0.027 - 0.29	1200	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 04
LUM02 PR07-500	0.025 - 0.6	0.023 - 0.54	500	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 06
LUM02 PR07-350	0.025 - 0.6	0.023 - 0.54	350	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 08
LUM02 PR04-1800-Q	0.03 - 0.32	0.027 - 0.29	1800	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 12
LUM02 PR04-1200-Q	0.03 - 0.32	0.027 - 0.29	1200	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 14
LUM02 PR07-500-Q	0.025 - 0.6	0.023 - 0.54	500	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 16
LUM02 PR07-350-Q	0.025 - 0.6	0.023 - 0.54	350	2.2	4.7	165	10	0.16	0.35	[c]	M5	8431 0146 18
LUM10 PR03	0.1 - 1.5	0.8 - 13	300	0.4	0.9	206	15	3	6	6	1/8	8431 0146 05
LUM10 PR05	0.1 - 1.5	0.8 - 13	460	0.4	0.9	206	15	3	6	6	1/8	8431 0146 09
LUM10 PR12	0.1 - 1.1	0.8 - 10	1200	0.4	0.9	196	15	3	6	6	1/8	8431 0146 17
LUM10 PR21	0.1 - 0.7	0.8 - 6	2000	0.4	0.9	196	15	3	6	6	1/8	8431 0146 25
LUM12 PR1	0.6 - 1.6	5.3 - 14.2	1900	0.55	1.2	195	17	4.5	10	6	1/8	8431 0278 29
LUM12 PR2	0.4 - 2.3	3.5 - 20.4	1450	0.55	1.2	195	17	4.5	10	6	1/8	8431 0278 27
LUM12 PR3	0.4 - 3.2	3.5 - 28.3	1000	0.55	1.2	195	17	4.5	10	6	1/8	8431 0278 26
LUM12 PR4	0.4 - 4.2	3.5 - 37.2	750	0.55	1.2	195	17	4.5	10	6	1/8	8431 0278 25
LUM12 PR5	0.4 - 5	3.5 - 44.2	450	0.55	1.2	195	20	4.5	10	6	1/8	8431 0278 30
LUM22 PR2-3500	1.1 - 2.5	9.7 - 22.1	3500	0.75	1.7	211	20	7	15	8	1/4	8431 0278 89
LUM22 PR3	0.6 - 3.2	5.3 - 28.3	2100	0.75	1.7	211	20	7	15	8	1/4	8431 0269 61
LUM22 PR4	0.5 - 4.0	4.4 - 35.4	1600	0.75	1.7	211	20	7	15	8	1/4	8431 0269 55
LUM22 PR4-2300	0.7 - 4.5	5.9 - 38.2	2300	0.75	1.7	211	20	7	15	8	1/4	8431 0278 81
LUM22 PR5-260	0.4 - 5.0	3.5 - 44.2	260	0.75	1.7	211	20	7	15	8	1/4	8431 0269 62
LUM22 PR5-350	0.4 - 5.0	3.5 - 44.2	350	0.75	1.7	211	20	7	15	8	1/4	8431 0269 60
LUM22 PR6	1.5 - 6.0	13.3 - 53.1	1000	0.75	1.7	211	20	7	15	8	1/4	8431 0269 56
LUM22 PR8-1100	1.5 - 8.0	13.3 - 70.8	1100	0.9	2.0	224	20	7	15	8	1/4	8431 0278 88
LUM22 PR10	3.5 - 10.0	31 - 88.5	700	0.95	2.1	232	22	7	15	8	1/4	8431 0269 58
LUM22 PR12	3.5 - 12.5	31 - 110.6	450	0.9	2.0	224	22	7	15	8	1/4	8431 0269 57
LUM22 PR12-260	3.5 - 12.5	31 - 110.6	260	0.9	2.0	224	22	7	15	8	1/4	8431 0269 63
LUM22 PR12-350	3.5 - 12.5	31 - 110.6	350	0.95	2.1	224	22	7	15	8	1/4	8431 0269 59
LUM22 PR12-850	3.5 - 12.0	31 - 106.2	850	1	2.2	246	22	8.5	15	8	1/4	8431 0278 80
With push start, button reverse and soft stop function												
LUM12 PR3-SS	1 - 1.8	8.8 - 15.9	900	0.55	1.2	195	15	4.5	10	6	1/8	8431 0280 07
LUM10 PR1-SS	0.2 - 0.6	1.8 - 5.3	460	0.4	0.9	206	15	3	6	6	1/8	8431 0280 06
LUM12 PR1-SS	0.6 - 1.3	5.3 - 11.5	800	0.55	1.2	195	20	4.5	10	6	1/8	8431 0280 05

Continued....

[a] Front end 12.5 mm (4210 3918 01) included.

[b] Optional front end 21 mm (4210 3918 02).

[c] Air inlet thread M5. Nipple and coupling included accessory for all LUM 02 models, hose size diameter 6 mm.

ESD approved: LUM10/12/22 SR/PR

All models: Are reversible and have quick change chuck.

SR-models have ring reverse control.

PR-models have push button reverse.

Shut-off

Straight Models

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With lever start and without push start												
LUM12 SR1	0.6 - 1.8	5.3 - 15.9	2200	0.6	1.3	217	17	6	13	6	1/8	8431 0278 35
LUM12 SR2	0.5 - 2.5	4.4 - 22.1	1700	0.6	1.3	217	17	6	13	6	1/8	8431 0278 34
LUM12 SR3	0.4 - 3.5	3.5 - 31	1200	0.6	1.3	217	17	6	13	6	1/8	8431 0278 33
LUM12 SR4	0.4 - 4.5	3.5 - 39.8	850	0.6	1.3	217	17	6	13	6	1/8	8431 0278 32
LUM22 SR3	0.6 - 3.2	5.3 - 28.3	1950	0.8	1.8	239	20	7	15	8	1/4	8431 0269 44
LUM22 SR4	0.6 - 4	5.3 - 35.4	1500	0.8	1.8	239	20	7	15	8	1/4	8431 0269 46
LUM22 SR5-300	0.4 - 5	3.5 - 44.2	300	0.8	1.8	239	20	7	15	8	1/4	8431 0269 51
LUM22 SR6	1.5 - 6	13.3 - 53.1	1000	0.85	1.9	239	20	7	15	8	1/4	8431 0269 47
LUM22 SR10	3.5 - 10	31 - 88.5	700	1	2.2	260	22	7	15	8	1/4	8431 0269 49
LUM22 SR12	3.5 -12.5	31 - 110.6	430	0.95	2.1	252	22	7	15	8	1/4	8431 0269 48
LUM22 SR12-300	3.5 -12.5	31 - 110.6	300	1	2.2	252	22	7	15	8	1/4	8431 0269 50

ESD approved: LUM10/12/22 SR/PR

All models: Are reversible and have quick change chuck.

Slip-clutch

Straight Models

Straight screwdrivers should be used with a torque arm for best ergonomics

The TWIST straight screwdrivers come in two different configurations:

- PR: Model with push to start function and reverse button
- SR: Model with lever start function and reverse ring.

TWIST12 SR

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With lever start												
TWIST12 SR3	0.7 - 3.3	6.2 - 29.2	1650	0.65	1.4	225	15	6	13	6	1/8	8431 0278 44
TWIST12 SR4	0.5 - 4.2	4.4 - 37.2	1100	0.65	1.4	225	15	6	13	6	1/8	8431 0278 43
TWIST22 SR6	1.5 - 6.0	13.3 - 53.1	1500	0.85	1.9	239	15	7	15	8	1/8	8431 0269 52
TWIST22 SR10	1.5 - 10.0	13.3 - 88.5	700	0.9	2.0	246	15	7	15	8	1/8	8431 0269 53
With push start												
TWIST22 PR2	1.1 - 2.6	9.7 - 23	3200	0.75	1.7	242	15	7	15	8	1/4	8431 0278 93
TWIST22 PR7	1.5 - 7.5	13.3 - 66.4	1100	0.75	1.7	211	15	7	15	8	1/4	8431 0278 90
TWIST22 PR6	2.2 - 6.5	19.5 - 57.5	1600	0.75	1.7	211	15	7	15	8	1/4	8431 0278 91
TWIST22 PR4-2300	1.0 - 4.0	8.9 - 35.4	2300	0.75	1.7	242	15	7	15	8	1/4	8431 0278 92

Angle Models

Shut-off

LTV angle screwdriver models have a fast, accurate shut-off clutch and are designed for durability.

- Slim design of the angle head allows good access in limited spaces and awkward positions.
- Spiral cut gears give high accuracy.

RE reporting conversion kits are available for LTV screwdriver models. For kit, see accessory page.

LTV009

LTV18 R07-6

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LTV009 R025-Q	0.6 - 2.5	5.3 - 22.1	1650	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 00
LTV009 R025-42	0.6 - 2.5	5.3 - 22.1	1650	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 01
LTV009 R025-6	0.6 - 2.5	5.3 - 22.1	1650	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 02
LTV009 R03-10	0.7 - 3	6.2 - 26.5	1400	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 23
LTV009 R035-Q	0.4 - 3.5	3.5 - 31	1100	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 03
LTV009 R035-42	0.4 - 3.5	3.5 - 31	1100	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 04
LTV009 R035-6	0.4 - 3.5	3.5 - 31	1100	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 05
LTV009 R05-Q	0.4 - 5	3.5 - 44.2	850	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 06
LTV009 R05-42	0.4 - 5	3.5 - 44.2	850	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 07
LTV009 R05-6	0.4 - 5	3.5 - 44.2	850	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 08
LTV009 R07-Q	1.1 - 7	9.7 - 61.9	500	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 09
LTV009 R07-42	1.1 - 7	9.7 - 61.9	500	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 10
LTV009 R07-6	1.1 - 7	9.7 - 61.9	500	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 11
LTV009 R07-6-230	0.3 - 7	0.3 - 7	230	0.8		266		11	6	13	6	1/8	8431 0279 18
LTV009 R08-FS-10	1.5 - 8	1.5 - 8	340	1.1		261		13.5	6	13	6	1/8	8431 0632 11
LTV009 R08-6-200	1.3 - 9	11.5 - 79.6	200	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 24
LTV009 R08-6-200-B	1.3 - 9	1.3 - 9	200	0.8		266		11	6	13	6	1/8	8431 0278 31
LTV009 R09-Q	1.3 - 9	11.5 - 79.6	430	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 12
LTV009 R09-10	1.3 - 9	11.5 - 79.6	430	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 13
LTV009 R09-42	1.3 - 9	11.5 - 79.6	430	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 15
LTV009 R09-42M	1.3 - 9	11.5 - 79.6	430	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 16
LTV009 R09-6	1.3 - 9	11.5 - 79.6	430	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 17
LTV009 R11-Q	1.3 - 11	11.5 - 97.3	320	0.8	1.8	266	28.5	11	6	13	6	1/8	8431 0278 19
LTV009 R11-10	1.3 - 11	11.5 - 97.3	320	0.8	1.8	266	28.5	11	6	13	6	1/8	8431 0278 20
LTV009 R11-42	1.3 - 11	11.5 - 97.3	320	0.8	1.8	266	28.5	11	6	13	6	1/8	8431 0278 21
LTV009 R11-6	1.3 - 11	11.5 - 97.3	320	0.8	1.8	266	28.5	11	6	13	6	1/8	8431 0278 22
LTV009 R13-FS-10	4 - 13	4 - 13	160	1.1		261		13.5	6	13	6	1/8	8431 0632 10
LTV18 R07-Q	3.5 - 7	31 - 61	700	1.2	2.6	290	28.5	10	6	13	6	1/4	8431 0326 76
LTV18 R07-42	3.5 - 7	31 - 61	700	1.2	2.6	290	28.5	10	6	13	6	1/4	8431 0326 61
LTV18 R07-6	3.5 - 7	31 - 61	700	1.2	2.6	290	28.5	10	6	13	6	1/4	8431 0326 72
LTV18 R15-Q	6.0 - 15	53 - 132	360	1.2	2.6	308	28	11	7	15	8	1/4	8431 0326 58
LTV18 R15-10	6.0 - 15	53 - 132	360	1.2	2.6	308	28	11	7	15	8	1/4	8431 0326 56
LTV18 R15-42	6.0 - 15	53 - 132	360	1.2	2.6	308	28	11	7	15	8	1/4	8431 0326 54
LTV18 R15-6	6.0 - 15	53 - 132	360	1.2	2.6	308	28	11	7	15	8	1/4	8431 0326 55

ESD approved: LTV009.

All models: Are reversible.

-42 = 1/4" female hexagon drive for bits.
-10 = 3/8" square drive.
-6 = 1/4" square drive for sockets.

-Q = 1/4" quick change chuck.
FS = Flush socket.

Angle Models

Slip-clutch

Model	Torque range soft joint Nm	Torque range soft joint in lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
With 1/4" square drive													
TWIST VR07-6	1.3 - 7.0	12 - 62	700	1.0	2.2	280	29	10	4	8	8	1/4	8431 0256 11
With 1/4" female hexagon drive													
TWIST VR07-I6	1.3 - 7.0	12 - 62	700	1.0	2.2	280	29	10	4	8	8	1/4	8431 0256 03
TWIST VR13-I6	2.0 - 6.0	18 - 53	1300	1.0	2.2	280	29	10	4	8	8	1/4	8431 0256 29

Accessories Included

Clutch adjustment key
Included with all shut-off and slip clutch tools

Exhaust hose
Included with straight and air-on-top models

Hose nipple
Included with all tools

Clutch adjustment key

Hose nipple

Optional Accessories

Model	Ordering No.
Threaded clutch houses	
LUM12 PR/SR 1, 2, 3, 4	4210 4386 04
LUM12 HRX/HRF 1, 3, 5, 8	4210 4386 04
LUM22 HRX/HR 2, 3, 4, 6	4210 4386 04
LUM22 HRX/HR 10, 12	4210 4392 03
LUM22 SR/PR 3, 4, 5, 6	4210 4383 04
LUM22 SR/PR 10, 12	4210 4383 03
Angle head covers	
LTV009 R025-R07	4210 4115 00
LTV009 R08-R11	4210 4116 00
Protective covers	
LUM22/32 HR	4210 3150 00
LUM22/25 HRX	4210 3151 00
LUM12 HRX	4210 3152 00
Threaded fronts	
LUM 32 HR10, 15	4210 4252 90
Suspension yoke for LTV009	4210 4461 80
Quick change chuck kit, extra wide diameter for easy handling	4210 2326 91
Angle-head for LTV009, 90° hex drive magnetic bit holder[a]	4210 3857 91
Extended lever for LTV18	4210 2306 02
Handle small size for LUM 25 HRF	4210 3139 00

[a] Substitute for 4210 3857 XX angle heads.

Suspension yoke

Quick change chuck kit

Angle-head for LTV009

Extended lever for LTV18

Vacuum screw pick-up for LUM02

RE-conversion kits

Model	Ordering No.
LUM12 HRF	4210 3624 99
LUM12 SR	4210 4137 90
LUM22 SR	4210 2057 80
LTV009	4210 4137 90
LTV18	4210 4023 90






Designation	Exhaust hose	Support handle	ESD hose	Torque arms adapters	Installation proposal	ESD approved pistol handle
LUM12 HRX/HRF	4210 2052 00	4110 1355 92	8202 0501 06	–	8202 1180 67	4210 3616 04
LUM22 HR 3, 4, 6	4210 2052 00	4110 1355 92	8202 0501 10	–	8202 1180 77	4210 4337 04
LUM22 HR 10, 12	4210 2052 00	4110 1355 93	8202 0501 10	–	8202 1180 77	4210 4337 04
LUM22 HRX 3, 4, 6	4210 2052 00	4110 1355 92	8202 0501 10	–	8202 1180 77	4210 3616 04
LUM12 SR	4210 2052 00	–	8202 0501 06	4390 1735 52	8202 1180 67	–
LUM12 PR	4210 2052 00	–	8202 0501 06	4390 1735 53	8202 1180 67	–
LUM22 SR	4210 2053 00	–	8202 0501 10	4390 1735 51	8202 1180 77	–
LUM22 PR	4210 2053 00	–	8202 0501 10	4390 1735 54	8202 1180 77	–
LTV009	4210 2052 00	–	8202 0501 06	–	8202 1180 67	–
LUM32 HR	4210 2052 00	4110 1355 94	8202 0501 10	–	8202 1180 77	4210 4337 04
LUF34	4210 2053 00	4110 1355 82	8202 0501 10	–	8202 1180 77	–

Installation Proposals

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For small screwdrivers with 1/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C06-1/8	6 l/s	Cablair 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	6 l/s	Cablair 6 mm	ErgoQIC 08	No	8202 0850 19
For small screwdrivers with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C06	6 l/s	Cablair 6 mm	ErgoQIC 08	Yes	8202 0850 06
For screwdrivers with 1/4" BSP air inlet					
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

Service Kits

The spare parts included in the service kits cover a normal overhaul of your tool. Always have them available for a fast and economical repair.

Main parts included:

- Vane kit
- Motor bearings
- Gaskets
- O-rings
- Circlips
- Pins etc.

Model	Ordering No.
LUM10 PR	4081 0070 90
LUM12 HRX, HRF	4081 0247 90
LUM12 SR	4081 0254 90
LUM12 PR	4081 0250 90
LUM22 HR/HRX 3, 4, 6, 12	4081 0281 90
LUM22 HR/HRX 10	4081 0282 90
LUM22 PR/SR 3, 4, 6, 12	4081 0284 90
LUM22 PR/SR 10	4081 0285 90
LUM25 HRF	4081 0075 90
LUM32 HR	4081 0316 90
LUF34 HR	4081 0086 90
TWIST HRF	4081 0079 90
TWIST VR	4081 0078 90
TWIST HR 3, 7, 12	4081 0291 90
TWIST HR 6	4081 0281 90
TWIST HR 10	4081 0292 90
TWIST12 HRX 2, 3, 4	4081 0247 90
TWIST22 HRX 2-3200, 7, 12	4081 0296 90
TWIST22 HRX 10	4081 0295 90
LTV009	4081 0248 90
LTV18	4081 0085 90

Power you can depend on

Atlas Copco impact wrenches are designed to provide dependability and a long, trouble-free service life in the toughest conditions. Few other tools can match the Atlas Copco impact wrench when it comes to flexibility, capacity-to-weight ratio and simplicity in use and maintenance.

Atlas Copco´s powerful, high-speed impact wrenches are designed to cut production times by providing rapid run-down and fast tightening. Impact wrenches build up torque in joints through a series of rotary impacts, where air pressure and tightening time affect the torque obtained. As a general rule, if a wrench impacts longer than 5 seconds on a fastener, a larger wrench should be used in order to achieve better durability.

The LMS models are non shut-off, which means they will shut off once the operator releases the trigger, whereas the LTS models are designed to shut off automatically when a preset torque is reached.

LMS

The LMS is a non shut-off impact wrench with extraordinary power to weight qualities and virtually no reaction force during tightening. The torque is applied to the joint, not to your wrist.

These tools are typically used where fast tightening or disassembly is needed and the range covers recommended torque levels between 7-5000 Nm.

LTS

The LTS models cover a recommended torque range of 22-650 Nm.

Place the tool on the joint to be fastened and press the trigger. The tool will shut-off automatically at a predetermined torque level, thus providing an operator independent tightening. This means correct tightening with less risk of over-tightening due to operator influence. It also means higher joint quality, improved operator confidence and reduced tightening time. There are two different shut-off principles for the LTS models.

Shut-off mechanism for LTS17 and LTS27

The purpose of the torsion bar principle is to increase the bounce angle of the impact mechanism. The tool shuts off once it has reached the pre-set bounce angle. The LTS27 HR43 has a female hexagon quick change chuck for separate torsion bars with a 1/2" square drive especially suitable for tightening different bolt sizes at the same workplace. The LTS17 and 27 HR13 have a built-in torsion bar to increase accuracy and reduce vibration levels. These models are designed for frequent tightening of the same bolt size.

Shut-off mechanism for LTS37 and LTS57

The purpose of the added bounce energy principle is that the energy content of each impact is added to the next and following impact until the preset level is reached and the tool shuts off.

Selection Guide

	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M36	M42	M45	M48
Nm	**9.8**	**24**	**47**	**81**	**128**	**197**	**275**	**385**	**518**	**665**	**961**	**1310**	**2280**	**3640**	**4510**	**5450**
LMS 8.8	LMS06	LMS17	LMS17	LMS27	LMS37	LMS37	LMS47	LMS57	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86
	LMS06	LMS17	LMS27	LMS37	LMS37	LMS47	LMS57	LMS57	LMS57	LMS67	LMS67	LMS67	LMS86			
LTS		LTS17	LTS17	LTS27	LTS27	LTS37	LTS57	LTS57	LTS57							
		LTS17	LTS17	LTS37	LTS37	LTS37	LTS57	LTS57								

	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M36	M42	M45
Nm	**14**	**33**	**65**	**114**	**181**	**277**	**386**	**541**	**728**	**935**	**1350**	**1840**	**3210**	**5110**	**6340**
LMS 10.9	LMS06	LMS17	LMS27	LMS27	LMS37	LMS37	LMS47	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86
	LMS17	LMS17	LMS27	LMS37	LMS47	LMS47	LMS57	LMS61	LMS67	LMS67	LMS86				
LTS		LTS17	LTS17	LTS27	LTS37	LTS57	LTS57	LTS57							
		LTS17	LTS27	LTS37	LTS37	LTS57	LTS57								

	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M36	M42
Nm	**17**	**40**	**79**	**136**	**217**	**333**	**463**	**649**	**874**	**1120**	**1620**	**2210**	**3850**	**6140**
LMS 12.9	LMS06	LMS17	LMS27	LMS27	LMS37	LMS47	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86
	LMS17	LMS17	LMS27	LMS37	LMS47	LMS57	LMS61	LMS67	LMS67	LMS86				
LTS		LTS17	LTS17	LTS27	LTS37	LTS57	LTS57							
		LTS17	LTS27	LTS37	LTS37	LTS57	LTS57							

■ = **HEAVY DUTY**

■ = **EXTRA HEAVY DUTY**

The torque figures are normal tightening torque for untreated oil-smeared and rust-protected bolts and nuts in the most common strength grades. The torque figures correspond to approximately 63% of tensile stress.

LTS models

- Recommended operating range 22-650 Nm.
- Fast tightening and disassembly.
- Negligible reaction force.
- Low weight.
- High power-to-weight ratio.
- Tightening time should not exceed 5 seconds, to avoid excess wear on the tool.
- Automatic shut-off shortens tightening time.
- Consistent torque accuracy.
- No over-torquing.
- Adjustable torque setting.
- LTS17 and LTS 27 are lubrication free.
- LTS17 and LTS27 – Torsion bar principle.
- LTS27 HR43 – Quick change chuck for separate torsion bars.
- LTS37 and LTS57 – Added bounce energy principle.

Model	Bolt size mm	Square drive in	Torque range Nm	Torque range ft lb	Impacts per min	Free speed r/min	Weight kg	Weight lb	Length excl anvil mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LTS17 HR10	8-10	3/8	22[b] - 45	16 - 33	960	10000	2.0	4.4	214	24	6	13	8	3/8	8434 1172 19
LTS17 HR13	8-10	1/2	34[b] - 66	25 - 49	1100	10000	2.0	4.4	214	24	6	13	8	3/8	8434 1172 01
LTS27 HR13-1	10-12	1/2	50[b] - 110	37 - 82	960	9300	2.6	5.7	226	29	6	13	10	3/8	8434 1272 00
LTS27 HR13-2	12-14	1/2	70[b] - 140	52 - 104	1100	9300	2.6	5.7	226	29	8	17	10	3/8	8434 1272 18
LTS27 HR43	10-14	7/16[a]	40[b] - 165	29 - 123	1200	11500	2.5	5.5	164	29	8	17	10	3/8	8434 1272 59
LTS37 HR13	12-14	1/2	80[c] - 340	59 - 250	1140	8800	3.7	8.1	200	33	10	21	10	3/8	8434 1372 41
LTS37 HR16	12-16	5/8	120[c] - 340	88 - 250	1140	8800	3.7	8.1	220	33	10	21	10	3/8	8434 1372 09
LTS57 HR20	18-20	3/4	200[c] - 500	147 - 369	960	4600	5.3	12.0	225	38	13	27	10	3/8	8434 1571 08
LTS57 HR25	18-22	1	200[c] - 650	147 - 479	960	4600	5.3	12.0	225	38	13	27	10	3/8	8434 1571 40

[a] Female hex. quick change chuck – 1/2" square drive on torsion bar.

[b] Min torque at 3 bar air pressure and min setting of torque control mechanism.

[c] Min torque at 4 bar air pressure and min setting of torque control mechanism.

LMS models

- Recommended operating range 7-1800 Nm.
- Fast tightening and disassembly.
- Negligible reaction force.
- Low weight.
- High power-to-weight ratio.
- Tightening time should not exceed 5 seconds, to avoid excess wear on the tool.
- Soft-start throttle.
- LMS06 – LMS27 are lubrication-free.

Model	Bolt size mm	Square drive in	Torque range Nm	Torque range ft lb	Max torque Nm	Max torque ft lb	Impacts per min	Free speed r/min	Weight kg	Weight lb	Length excl anvil mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LMS06 HR10	6-8	3/8	7 - 30	5 - 22	55	40	2100	13500	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 04
LMS06 HR10-HD	6-8	3/8	7 - 30	5 - 22	55	40	2100	10000	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 08
LMS06 HR42	6-8	1/4[a]	7 - 30	5 - 22	55	40	2100	13500	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 20
LMS06 HR42-HD	6-8	1/4[a]	7 - 30	5 - 22	55	40	2100	10000	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 16
LMS17 HR10	10	3/8	10 - 70	7 - 52	110	81	1260	10000	1.7	3.8	141	24	10	21	10.0	3/8	8434 1170 60
LMS17 HR13	10	1/2	10 - 70	7 - 52	110	81	1260	10000	1.7	3.8	141	24	10	21	10.0	3/8	8434 1170 29
LMS27 HR13	12	1/2	30 - 180	22 - 133	220	162	1200	8700	2.1	4.6	142	29	10	21	10.0	3/8	8434 1270 02
LMS27 HR43	12	7/16[a]	30 - 180	22 - 133	220	162	1200	8700	2.1	4.6	142	29	10	21	10.0	3/8	8434 1270 77
LMS37 HR13	14-16	1/2	40 - 340	30 - 251	480	354	1200	7800	2.7	6.0	165	33	13	27	10.0	3/8	8434 1360 41
LMS37 HR16	14-16	5/8	40 - 340	30 - 251	480	354	1200	7800	2.7	6.0	165	33	13	27	10.0	3/8	8434 1370 01
LMS47 HR20	16-19	3/4	70 - 460	52 - 339	550	405	900	4800	3.5	7.7	170	37	14	30	12.5	3/8	8434 1470 42
LMS57 HR20	18-20	3/4	100 - 500	74 - 369	900	664	960	4500	4.3	9.5	189	38	16	34	12.5	3/8	8434 1570 09
LMS57 HR25	18-22	1	100 - 650	74 - 479	900	664	960	4500	4.3	9.5	189	38	16	34	12.5	3/8	8434 1570 41
LMS61 HR20	20-24	3/4	300 - 1300	220 - 960	1800	1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1611 00
LMS61 HR25	20-24	1	300 - 1300	220 - 960	1800	1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1610 00
LMS61 HRS4	20-24	1 1/4[b]	300 - 1300	220 - 960	1800	1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1612 00
LMS67 HR25	24-32	1	600 - 1800	440 - 1320	2800	2065	600	3000	9.6	21.2	252	55	27	58	16	1/2	8434 1650 06
LMS67 HR S5	24-32	1 5/8[a]	600 - 1800	440 - 1320	2800	2065	600	3000	9.6	21.2	252	55	27	58	16	1/2	8434 1650 10

[a] Female hex. quick change chuck.

[b] Spline drive No. 4.

LMS models

- Recommended operating range 7-5000 Nm.
- Fast tightening and disassembly.
- Negligible reaction force.
- Low weight.
- High power-to-weight ratio.
- Soft-start throttle.
- Tightening time should not exceed 5 seconds, to avoid excess wear on the tool.

LMS86 GOR

LMS06 SR

LMS67 GR

Model	Bolt size mm	Square drive in	Torque range Nm	Torque range ft lb	Max torque Nm	Max torque ft lb	Impacts per min	Free speed r/min	Weight kg	Weight lb	Length excl anvil mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LMS06 SR10	6-8	3/8	7-30	5-22	55	40	2100	12500	0.9	2.0	182	20	4	8	6.3	1/4	8434 1060 12
LMS67 GIR25	24-32	1	600-1800	440-1320	2800	2065	600	3000	9.4	20.7	339	55	27	58	16	1/2	8434 1650 02
LMS67 GIR S5	24-32	1 5/8[a]	600-1800	440-1320	2800	2065	600	3000	9.8	21.6	339	55	27	58	16	1/2	8434 1650 14
LMS86 GOR38/B	32-45	1 1/2	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 12
LMS86 GIR38/B	32-45	1 1/2	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 20
LMS86 GORS5/B	32-45	1 5/8[a]	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 18
LMS86 GIRS5/B	32-45	1 5/8[a]	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 26

[a] Spline drive No. 5.

GOR = Outside trigger.

GR/GIR = Inside trigger.

Accessories Included

LTS
Silenced air exhaust through handle
Hose fitting
Torsion bar No. 06 LTS27 HR43
Adjusting key LTS17 and LTS27

LMS
Silenced air exhaust through handle (LMS47/57/61)
Hose fitting

Optional Accessories

Protective covers

Model	Ordering No.
LMS17	4250 1503 00
LMS27	4250 1273 00
LMS37	4250 1213 00
LMS47	4250 1338 00
LMS57	4250 1282 00
LMS61	4250 2464 00
LMS64	4250 0828 00
LTS17	4250 1410 00
LTS27 HR13	4250 1411 00
LTS27 HR43	4250 1340 00
LTS37	4250 1337 00
LTS57	4250 1339 00

Protective covers

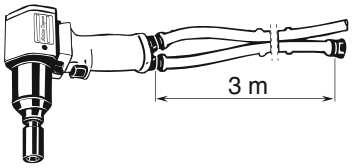
Power regulator valve

Model	Ordering No.
LMS17/LTS17	4250 1091 90
LMS27/LTS27	4250 1091 91
LMS37/LTS37	4250 1091 92
LMS47	4250 1091 93
LMS57/LTS57	4250 1091 94
LTS17	4250 1091 87
LTS27	4250 1091 86
LTS37	4250 1091 85
LTS57	4250 1091 88

Power regulators

Piped-away exhaust kit

Model	Ordering No.
LMS06 HR	4210 2052 00
LMS17, -27, -37, -47, -57, LTS17, -27, -37, -57	4250 1366 90



Exhaust kit

Tool holder with square drive, for 7/16" quick change chuck

Model	Drive size in	Length mm	Ordering No.
LMS17, -27	3/8	75	4023 1210 03
	1/2	75	4023 1211 03

Socket holders

Optional Accessories

Swivelling

Vertical

Horizontal

Extended anvils

Quick change chuck

Suspension yokes

Model	Horizontal Ordering No.	Vertical Ordering No.	Swivelling Ordering No.
LMS06 HR	–	–	4210 0243 00
LMS17	–	–	4250 1365 00
LMS27	4250 0872 00	4250 1159 00	–
LMS37	4250 0872 00	4250 1058 00	–
LMS47	4250 0872 00	4250 1327 00	–
LMS57	4250 0872 00	4250 1160 00	–
LMS61	4250 0872 00	4250 1620 90	–
LMS67	4250 0677 80	–	–
LMS86	0371 1102 00	–	–
LTS17	–	–	4250 1365 00
LTS27	4250 0872 00	–	4250 1365 00
LTS37	4250 0872 00	–	4250 1253 00
LTS57	4250 0872 00	–	4250 2229 00

Extended anvils

Model	Drive size in	Extension mm	Ordering No.
Extended square drive anvil			
LMS17	1/2	75	4250 1147 80[ab]
LMS27	1/2	75	4250 1085 80[ab]
LMS27	1/2	150	4250 1086 80[ab]
LMS37/LTS37	1/2	75	4250 1031 80[ab]
LMS37/LTS37	1/2	150	4250 1032 80[ab]
LMS37/LTS37	5/8	75	4250 1034 80[ab]
LMS37/LTS37	5/8	150	4250 1035 80[ab]
LMS47/LTS47	3/4	75	4250 1208 00
LMS47/LTS47	3/4	150	4250 1209 00
LMS57/LTS57	3/4	75	4250 1109 00
LMS57/LTS57	3/4	150	4250 1110 00
LMS57/LTS57	3/4	200	4250 1111 00
LMS57/LTS57	1	75	4250 1113 00
LMS57/LTS57	1	150	4250 1114 00
Spline type anvil			
LMS67	1 5/8-14	–	4250 2473 80
Heavy duty anvil (thru hole)			
LMS37/LTS37	1/2	80	4250 1041 01

Quick change chuck

Model	Drive size in	Extension mm	Ordering No.
Anvil with female hexagon quick change chuck			
LMS06	1/4	–	4250 1513 80
LMS17	7/16	–	4250 1154 80
LMS27	7/16	–	4250 1088 80
LMS37	7/16	–	4250 1050 80[c]

[a] Retainer pin – locking type 4250 0851 00

[b] Retainer pin – quick change type 4250 1190 00

[c] **NOTE**: To be used together with reversing valve 4250 1345 95 (marked “1”) only.

Torsion bars

Torsion bar No.	Torque Nm	Ordering No.	Colour of bar
02	60	4250 1230 82	orange
03	75	4250 1230 83	yellow
04	90	4250 1230 84	green
05	100	4250 1230 85	blue
06	115	4250 1230 86	red (standard)
07	125	4250 1230 87	orange
08	140	4250 1230 88	yellow
09	150	4250 1230 89	green
10	165	4250 1230 90	blue

Installation Proposals

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For small impact with 1/4" BSP air inlet					
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
For 1/2" impact wrenches with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
For 1/2" impact wrenches with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
For impact wrenches with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
For impact wrenches with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11

Service Kits

The spare parts included in the service kits cover a normal overhaul of your tool. Always have them available for a fast and economical repair.

Main parts included:

- Vane kit
- Gaskets
- Circlips
- Motor bearings
- O-rings
- Pins etc.

Model	Service kit
LMS06	4081 0008 90
LMS06 SR	4081 0168 90
LMS17/LTS17	4081 0204 90
LMS27/LTS27	4081 0205 90
LMS37/LTS37	4081 0206 90
LMS47	4081 0207 90
LMS57/LTS57	4081 0208 90
LMS61	4081 0257 90
LMS64	4081 0015 90
LMS67	4081 0394 90
LMS86	4081 0016 90

ErgoPulse impulse tools – fast, reliable and operator friendly

The speed, reliability, and accuracy of ErgoPulse hydraulic impulse nutrunners, combined with the fact that they are comfortable to operate, make them suitable for continuous heavy production. Since there is no metal-to-metal impact in a pulse tool, it provides a softer, more controlled pulse with considerably less vibration and noise than an impact wrench.

A complete range

ErgoPulse impulse tools are available in straight and pistol grip, shut-off and non shut-off versions. The range covers torque from 2–900 Nm.

The ErgoPulse principle – The heart of a pulse tool is the hydraulic pulse unit. Since the pulses are very short, there is almost no reaction force in the handle, only the much lower motor torque is transferred to the operator's hand. In addition, there are less vibrations and noise than with an impact wrench. Combined with good balance and low weight the result is a tool that is very comfortable to operate.

PTS and PTX shut-off pulse tools

Atlas Copco shut-off pulse tools shut off the air supply when the pre-set torque is been reached. Operator influence is minimized and the result is increased accuracy and faster tightening.

Torque sensing system – In ErgoPulse PTS and PTX nutrunners torque is "sensed" by means of a rotatable inertial mass acting against an adjustable spring. The result is a highly accurate and easily adjustable shut-off system.

Pulse mechanism – The pulse mechanism has pistons for minimum weight and long service life. The design is based on cam-guided pistons and rollers and the pulse cylinder is oil-filled. The moving parts are thus completely immersed in oil, which ensures a long service life.

Twin chamber vane motor – This is designed to give high torque at low speed, which gives the best characteristics for fast, accurate tightening.

TRIM valve – A patented adjustable valve at the air outlet is used to maximize tool accuracy on one type of joint, which could be hard, medium or soft.

AUTOTRIM valve – PTS/PTX-AT tools are equipped with an automatic two-stage trim valve. The tool runs down the screw with reduced free speed. After 1-2 pulses it shifts automatically to full power thus enabling both hard and soft joints to be tightened with excellent results without any adjustments. The PTS/PTX-AT tools can also be used for reporting applications. ErgoPulse PTS-HRF – These are Air-on-Top versions which offer full flexibility. You either use the air inlet on top to avoid the disturbing hose hook or you use the conventional air inlet at the bottom of the handle – a convenient tool for use in workstations.

ErgoPulse PTX – The new ErgoPulse PTX series is intended for applications where weight is critical. The tools are available in both Trim and AutoTrim versions.

ErgoPulse 25PTX

At the top of the PTX range, is the new ErgoPulse 25PTX, which gives you 900 Nm of tightening torque in a tool weighing only 10.3 kg.

ErgoPulse XS non shut-off tools

ErgoPulse XS is the correct choice when the operator needs to control the process. The tools provide high torque, fast, accurate tightening and long service lifetimes.

Twin chamber vane motor – This is designed to give high torque at low speed, which provides the best characteristics for fast, reliable and accurate tightening.

Double or triple bladed pulse mechanisms – The tools are equipped with pulse units with two or three blades. They employ the Atlas Copco patented cam-guided design to push out the blades, giving very high reliability. The pulse units have a high power-to-weight ratio, making the tools very powerful for their size. Torque is adjusted by regulating an artificial leak in the hydraulic circuit.

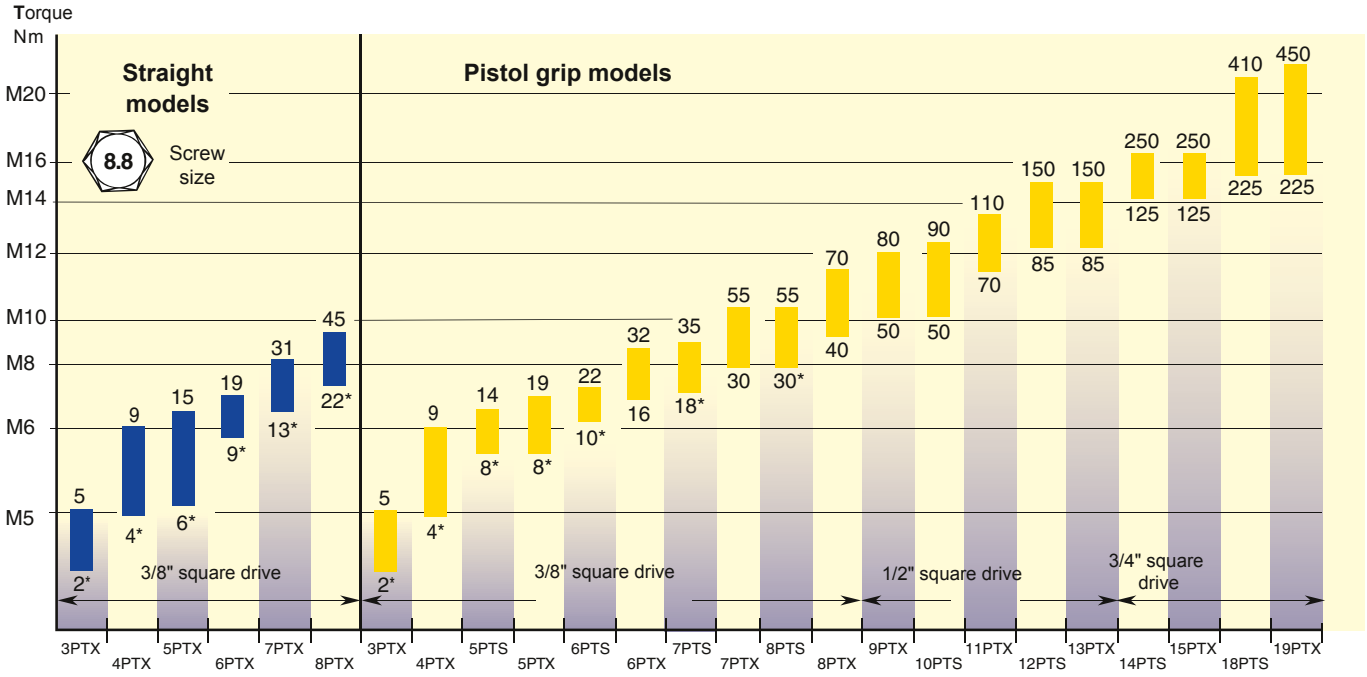
ErgoPulse 6PS

This model is a good choice for tightening self-tapping screws and when fast, powerful reversing is needed. Torque is adjusted by regulating the air pressure.

Selection Guide

EP PTS/PTX Shut-off models

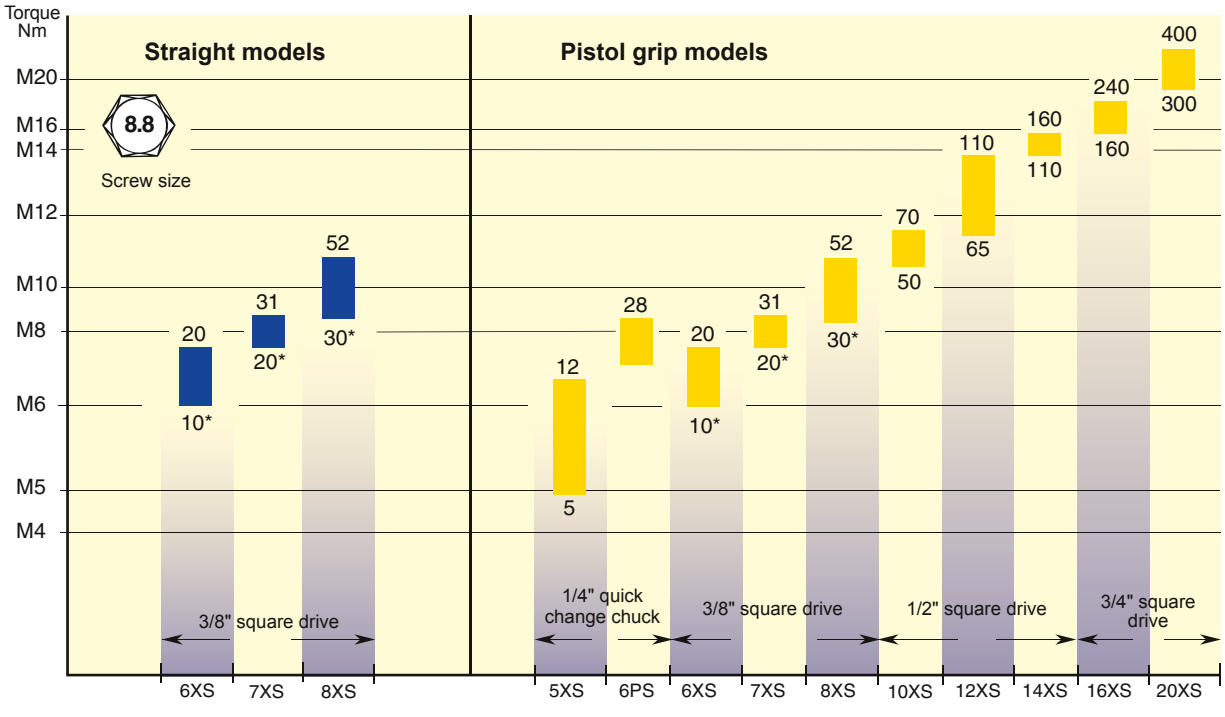
The ErgoPulse PTS and PTX tools can be adjusted within a wide torque range by simply setting the spring force that counteracts the inertia body. Torque should preferably be checked with a hand torque wrench. Electronic monitoring with an in-line transducer is possible but should be verified with a manual hand torque wrench to avoid measuring errors due to the extremely short pulse sequence.



* *For tools with quick change chuck, see technical data.*

EP XS/PS Non shut-off models

The size of tool is determined on the basis of torque and/or bolt dimension. Torque should preferably be checked with a hand torque wrench. Electronic monitoring with an in-line transducer is possible but should be verified with a manual hand torque wrench to avoid measuring errors due to the extremely short pulse sequence.



* *For tools with quick change chuck, see technical data.*

EP PTX models

In ErgoPulse shut-off tools the air supply is shut off as soon as the pre-set torque has been reached, minimizing operator influence. The result is increased accuracy and faster tightening.

- High reliability.
- Consistent torque over time, low mean-shift.
- High level of durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- No wear on key parts.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM-RE														
EP3PTX5 HR42-RE	M4-M5	1/4[b]	2 - 5	1.6 - 4	5000[c]	0.8	1.7	154	21	4	9	8	1/4	8431 0375 51
EP4PTX9 HR42-RE	M5	1/4[b]	4 - 9	3 - 7	3400[d]	0.9	1.9	164	22	4	9	8	1/4	8431 0375 50
EP4PTX9 HR10-RE	M5	3/8	4 - 9	3 - 7	3400[d]	0.9	1.9	164	22	4	9	8	1/4	8431 0375 54
EP5PTX17 HR42-RE	M6	1/4[b]	7 - 17	5 - 13	7000[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 00
EP5PTX19 HR10-RE	M6	3/8	8 - 19	6 - 14	7000[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 04
EP6PTX28 HR42-RE	M6-M8	1/4[b]	15 - 28	11 - 21	8500[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 10
EP6PTX32 HR10-RE	M6-M8	3/8	16 - 32	12 - 23	8500[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 20
EP7PTX55 HR10-RE	M8-M10	3/8	30 - 55	22 - 40	7200[d]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 30
EP8PTX70 HR10-RE	M10	3/8	40 - 70	29 - 51	6900[d]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 60
EP9PTX80 HR13-RE	M10	1/2	50 - 80	37 - 59	5200[d]	1.5	3.3	188	29	11	23	10	1/4	8431 0375 40
EP11PTX120 HR13-RE	M12	1/2	70 - 110	51 - 88	5100[d]	1.7	3.8	196	29	12	25	10	1/4	8431 0376 50
EP13PTX150 HR13-RE	M12-M14	1/2	85 - 150	63 - 110	5300[d]	2.3	5.1	197	33.5	15	32	13	3/8	8431 0376 60
EP15PTX250 HR20-RE	M12-M16	3/4	125 - 250	92 - 184	4300[d]	3.1	6.8	216	36.5	21	45	13	3/8	8431 0376 70
EP19PTX450 HR20-RE	M16-M20	3/4	225 - 450	166 - 332	3300[d]	4.2	9.2	221	44	23	49	13	3/8	8431 0376 80
Trim-RE Low pressure models														
EP5PTX HR42-RE-L	M4-M5	1/4[b]	6 - 13	1.6 - 4	5900[e]	0.8	1.8	154	21	4	9	8	1/4	8431 0379 00
EP5PTX HR10-RE-L	M5	3/8	7 - 15	3 - 7	5900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 04
EP6PTX HR42-RE-L	M5	1/4[b]	11 - 22	3 - 7	7900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 10
EP6PTX HR10-RE-L	M6	3/8	13 - 25	5 - 13	7900[e]	0.9	2.0	164	22	7	15	8	1/4	8431 0379 20
EP7PTX HR10-RE-L	M6	3/8	23 - 35	6 - 14	6200[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 30
EP8PTX HR10-RE-L	M6-M8	3/8	33 - 45	11 - 21	6300[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 60
AutoTrim[d]														
EP3PTX5 HR42-AT	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[c]	0.8	1.8	154	21	4	9	8	1/4	8431 0375 53
EP4PTX9 HR42-AT	M5	1/4[b]	4 - 9	3 - 7	3300[c]	0.9	2.0	164	22	4	9	8	1/4	8431 0375 52
EP4PTX9 HR10-AT	M5	3/8	4 - 9	3 - 7	3300[c]	0.9	2.0	164	22	4	9	8	1/4	8431 0375 56
EP5PTX17 HR42-AT	M6	1/4[b]	7 - 17	5 - 13	5400[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 02
EP5PTX19 HR10-AT	M6	3/8	8 - 19	6 - 14	5400[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 06
EP6PTX28 HR42-AT	M6-M8	1/4[b]	15 - 28	11 - 21	8500[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 12
EP6PTX32 HR10-AT	M6-M8	3/8	16 - 32	12 - 23	8500[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 22
EP7PTX55 HR10-AT	M8-M10	3/8	30 - 55	22 - 40	6900[c]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 32
EP8PTX70 HR10-AT	M10	3/8	40 - 70	29 - 51	6900[c]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 62
EP9PTX80 HR13-AT	M10	1/2	50 - 80	37 - 59	5100[c]	1.5	3.4	188	29	11	23	10	1/4	8431 0375 42
EP11PTX120 HR13-AT	M12	1/2	70 - 110	51 - 88	5100[c]	1.7	3.8	196	29	12	25	10	1/4	8431 0376 52
EP13PTX150 HR13-AT	M12-M14	1/2	85 - 150	63 - 110	5300[c]	2.3	5.0	197	33.5	15	32	13	3/8	8431 0376 62
EP15PTX250 HR20-AT	M12-M16	3/4	125 - 250	92 - 184	4200[c]	3.1	6.8	216	36.5	21	45	13	3/8	8431 0376 72
EP19PTX450 HR20-AT	M16-M20	3/4	225 - 450	166 - 332	3300[c]	4.2	9.2	221	44	23	49	13	3/8	8431 0376 82
AutoTrim Low pressure models														
EP5PTX HR42-AT-L	M4-M5	1/4[b]	6 - 13	1.6 - 4	5900[e]	0.8	1.8	154	21	4	9	8	1/4	8431 0379 02
EP5PTX HR10-AT-L	M5	3/8	7 - 15	3 - 7	5900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 06
EP6PTX HR42-AT-L	M5	1/4[b]	11 - 22	3 - 7	7900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 12
EP6PTX HR10-AT-L	M6	3/8	13 - 25	5 - 13	7900[e]	0.9	2.0	164	22	7	15	8	1/4	8431 0379 22
EP7PTX HR10-AT-L	M6	3/8	23 - 35	6 - 14	6200[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 32
EP8PTX HR10-AT-L	M6-M8	3/8	33 - 45	11 - 21	6300[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 62

[a] To be used as a guide only, final torque depends on type of joint, accessories used and air pressure.

[b] Female hexagon drive. Quick change chuck.

[c] In full speed mode.

[d] RE-reporting kit not included (Ordering No. 4250 1854 91).

[e] Measured at 5 bar air pressure.

EP PTS models

ErgoPulse PTS is the reliable and powerful workhorse and offers the same shut-off mechanism as the peak performer PTX. The PTS series has some air on top HRF models, making it possible to feed the air from above to the tool to make it easier to use in many applications. All PTS models can also be used as lubrication free, just like other ErgoPulse tools.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM-RE														
EP5PTS12 HR42-RE	M5-M6	1/4[b]	6 - 12	4 - 9	5400[c]	1.0	2.2	196	21	6.5	14	8	1/4	8431 0374 05
EP5PTS14 HR10-RE	M5-M6	3/8	8 - 14	6 - 10	5400[c]	1.0	2.2	191	21	6.5	14	8	1/4	8431 0374 00
EP6PTS20 HR42-RE	M6	1/4[b]	8 - 20	6 - 15	7300[c]	1.0	2.2	196	21	7	15	8	1/4	8431 0374 15
EP6PTS22 HR10-RE	M6	3/8	10 - 22	7 - 16	7300[c]	1.0	2.2	191	21	7	15	8	1/4	8431 0374 20
TRIM-RE														
EP7PTS30 HR42-RE	M8	1/4[b]	16 - 31	12 - 23	5700[c]	1.4	3.0	175	26	8	17	10	1/4	8431 0374 35
EP7PTS35 HR10-RE	M8	3/8	18 - 35	13 - 26	5700[c]	1.4	3.0	176	26	8	17	10	1/4	8431 0374 40
EP8PTS40 HR42-RE	M8	1/4[b]	22 - 40	16 - 29	7300[c]	1.4	3.0	175	26	9	19	10	1/4	8431 0374 55
EP8PTS55 HR10-RE	M8-M10	3/8	30 - 55	22 - 40	7300[c]	1.4	3.0	176	26	9	19	10	1/4	8431 0374 60
EP10PTS90 HR13-RE	M10-M12	1/2	50 - 90	37 - 66	5200[c]	1.8	4.0	193	29	11	23	10	1/4	8431 0374 80
EP12PTS150 HR13-RE	M12-M14	1/2	85 -150	63 -110	4200[c]	2.5	5.5	201	34	13	27	13	3/8	8431 0374 90
EP14PTS250 HR20-RE	M12-M16	3/4	125 -250	92 -185	4000[c]	3.3	7.2	216	37	20	42	13	3/8	8431 0374 95
EP18PTS410 HR20-RE	M16-M20	3/4	225 -410	166 -302	3000[c]	4.3	9.5	202	42	22	46	13	3/8	8431 0374 98
TRIM-RE with Air on top														
EP7PTS35 HRF10-RE	M8	3/8	18 - 35	13 - 26	5700[c]	1.4	3.0	176	31	8	17	10	1/4	8431 0374 41
EP8PTS55 HRF10-RE	M8-M10	3/8	30 - 55	22 - 40	7300[c]	1.4	3.0	176	31	9	19	10	1/4	8431 0374 61
EP10PTS90 HRF13-RE	M10-M12	1/2	50 - 90	37 - 66	5200[c]	1.8	4.0	193	34	11	23	10	1/4	8431 0374 81
AutoTrim with balanced grip[e]														
EP6PTS20 HR42-AT	M6	1/4[b]	8 - 20	6 - 15	6300[d]	1.0	2.2	196	21	7	15	8	1/4	8431 0374 16
EP6PTS22 HR10-AT	M6	3/8	10 - 22	7 - 16	6300[d]	1.0	2.2	191	21	7	15	8	1/4	8431 0374 21
AutoTrim balanced grip[e]														
EP7PTS30 HR42-AT	M8	1/4[b]	16 - 31	12 - 23	5400[d]	1.4	3.0	175	26	8	17	10	1/4	8431 0374 37
EP7PTS35 HR10-AT	M8	3/8	18 - 35	13 - 26	5400[d]	1.4	3.0	176	26	8	17	10	1/4	8431 0374 42
EP8PTS40 HR42-AT	M8	1/4[b]	22 - 40	16 - 29	6900[d]	1.4	3.0	175	26	9	19	10	1/4	8431 0374 57
EP8PTS55 HR10-AT	M8-10	3/8	30 - 55	22 - 40	6900[d]	1.4	3.0	176	26	9	19	10	1/4	8431 0374 62
EP10PTS90 HR13-AT	M10-12	1/2	50 - 90	37 - 66	4900[d]	1.8	4.0	193	29	11	23	10	1/4	8431 0374 82
EP12PTS150 HR13-AT	M12-14	1/2	85 -150	63 -110	4100[d]	2.5	5.5	201	34	13	27	13	3/8	8431 0374 92
EP14PTS250 HR20-AT	M12-16	3/4	125 -250	92 -185	3900[d]	3.3	7.2	216	37	20	42	13	3/8	8431 0374 97
EP18PTS410 HR20-AT	M16-20	3/4	225 -410	166 -332	2900[d]	4.3	9.5	202	42	22	46	13	3/8	8431 0374 99

[a] To be used as a guide only, final torque depends on type of joint, accessories used and air pressure.

[b] Female hexagon drive. Quick change chuck.

[c] With TRIM valve fully open.

[d] In full speed mode.

[e] RE-reporting kit not included (Ordering No. 4250 1854 91).

EP-XS models

In ErgoPulse non shut-off tools the tool produces pulses until the operator releases the trigger. Preferred in applications where it is an advantage for the operator to be able to control the process by shutting off the tool manually.

- High reliability and durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
EP5XS HR42	M5-M6	1/4[b]	5- 12	4- 9	8500	0.8	1.8	165	21	9	19	8	1/4	8431 0372 30
EP6XS HR42	M6	1/4[b]	9- 19	6- 14	8000	0.8	1.8	150	22	8	17	8	1/4	8431 0372 23
EP6XS HR10	M6	3/8	10- 20	7- 15	8000	0.8	1.8	152	22	8	17	8	1/4	8431 0372 20
EP6PS HR42	M8	1/4[b]	[c]- 28	[c]- 21	8000	0.8	1.8	148	21	9	19	10	1/4	8431 0368 22
EP6PS HR10	M8	3/8	[c]- 30	[c]- 22	8000	0.8	1.8	150	21	9	19	10	1/4	8431 0368 21
EP8PS HR10	M8-M10	3/8	[c]- 65	[c]- 48	8000	1.0	2.2	158	23	9	19	10	1/4	8431 0368 24
EP7XS HR42	M8	1/4[b]	17- 28	13- 21	9000	0.8	1.8	150	22	8	17	8	1/4	8431 0372 10
EP7XS HR10	M8	3/8	20- 31	15- 23	9000	0.8	1.8	152	22	8	17	8	1/4	8431 0372 00
EP8XS HRX42	M8	1/4[b]	22- 40	16- 29	7000	1.0	2.2	172	23	9	19	10	1/4	8431 0369 16
EP8XS HRX10	M8-M10	3/8	30- 52	22- 38	7000	1.0	2.2	174	23	9	19	10	1/4	8431 0369 09
EP10XS HR13	M10	1/2	50- 70	37- 52	6000	1.3	2.9	168	26	11	23	10	1/4	8431 0369 40
EP12XS HR13	M12	1/2	65- 110	48- 81	4500	1.6	3.5	178	29	12	25	10	1/4	8431 0371 00
EP14XS HR13	M14	1/2	110- 160	81- 118	3500	2.4	5.3	188	34	14	30	13	3/8	8431 0371 50
EP16XS HR20	M16	3/4	160- 240	118- 177	2800	3.3	7.3	205	37	15	32	13	3/8	8431 0371 55
EP20XS HR20	M20	3/4	300- 400	221- 295	3700	5.1	11.2	240	43	16	34	13	3/8	8431 0371 60

[a] To be used as a guide only, final torque depends on type of joint, accessories used and air pressure.

[b] Female hexagon drive. Quick change chuck.

[c] Torque is adjusted by regulating the air pressure.

EP PTX models

In ErgoPulse shut-off tools the air supply is shut off as soon as the pre-set torque has been reached, minimizing operator influence. The result is increased accuracy and faster tightening.

- High reliability.
- Consistent torque over time, low mean-shift.
- High level of durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- High precision components.
- No reaction forces.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM														
EP3PTX5 SR42	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[d]	0.7	1.6	202	21	4	9	8	1/4	8431 0376 01
EP4PTX9 SR42	M5	1/4[b]	4 - 9	3 - 7	3400[d]	0.9	2.0	207	21	4	9	8	1/4	8431 0376 00
EP4PTX9 SR10	M5	3/8	4 - 9	3 - 7	3400[d]	0.9	2.0	207	21	4	9	8	1/4	8431 0376 04
EP5PTX14 SR42	M6	1/4[b]	7 - 14	5 - 10	5300[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 10
EP5PTX15 SR10	M6	3/8	9 - 15	7 - 11	5300[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 14
EP6PTX18 SR42	M6	1/4[b]	9 - 18	7 - 13	6800[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 20
EP6PTX19 SR10	M6	3/8	10 - 19	7 - 14	6800[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 24
EP7PTX28 SR42	M6-M8	1/4[b]	17 - 28	13 - 21	4300[d]	1.2	2.5	235	25	8	17	10	1/4	8431 0376 30
EP7PTX31 SR10	M6-M8	3/8	18 - 31	13 - 23	4300[d]	1.2	2.5	235	25	8	17	10	1/4	8431 0376 34
EP8PTX38 SR42	M8	1/4[b]	22 - 38	16 - 28	5500[d]	1.2	2.5	235	25	9	19	10	1/4	8431 0376 44
EP8PTX45 SR10	M8	3/8	24 - 45	18 - 33	5500[d]	1.2	2.5	235	25	9	19	10	1/4	8431 0376 40
TRIM-RE														
EP25PTX900 GR25-RE	M24-M27	1	450 -900	330 -660	4500[d]	10.3	22.7	406	58.5	30	63	13	1/2	8431 0376 90
AutoTrim[e]														
EP3PTX5 SR42-AT	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[c]	0.8	1.7	262	21	4	9	8	1/4	8431 0376 03
EP4PTX9 SR42-AT	M5	1/4[b]	4 - 9	3 - 7	3300[c]	0.9	2.0	267	21	4	9	8	1/4	8431 0376 02
EP4PTX9 SR10-AT	M5	3/8	4 - 9	3 - 7	3300[c]	0.9	2.0	267	21	4	9	8	1/4	8431 0376 06
EP5PTX14 SR42-AT	M6	1/4[b]	7 - 14	5 - 10	4800[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 12
EP5PTX15 SR10-AT	M6	3/8	9 - 15	7 - 11	4800[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 16
EP6PTX18 SR42-AT	M6	1/4[b]	9 - 18	7 - 13	6700[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 22
EP6PTX19 SR10-AT	M6	3/8	10 - 19	7 - 14	6700[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 26
EP7PTX28 SR42-AT	M6-M8	1/4[b]	17 - 28	13 - 21	4300[c]	1.2	2.5	295	25	7	15	10	1/4	8431 0376 32
EP7PTX31 SR10-AT	M6-M8	3/8	18 - 31	13 - 23	4300[c]	1.2	2.5	295	25	7	15	10	1/4	8431 0376 36
EP8PTX38 SR42-AT	M8	1/4[b]	22 - 38	16 - 28	5900[c]	1.2	2.5	295	25	9	19	10	1/4	8431 0376 46
EP8PTX45 SR10-AT	M8	3/8	24 - 45	18 - 33	5900[c]	1.2	2.5	295	25	9	19	10	1/4	8431 0376 42
AutoTrim Low pressure models														
EP5PTX SR42-AT-L	M4-M5	1/4[b]	7 - 12	1.6 - 4	4800[f]	0.7	1.6	267	21	4	9	8	1/4	8431 0368 03
EP5PTX SR10-AT-L	M5	3/8	8 - 13	3 - 7	4800[f]	0.9	2.0	267	21	4	9	8	1/4	8431 0368 01
EP6PTX SR42-AT-L	M5	1/4[b]	9 - 16	3 - 7	6300[f]	0.9	2.0	267	21	4	9	8	1/4	8431 0368 15
EP6PTX SR10-AT-L	M6	3/8	10 - 17	5 - 10	6300[f]	0.9	2.0	267	21	7	15	8	1/4	8431 0368 09
EP7PTX SR42-AT-L	M6	1/4[b]	15 - 21	7 - 11	4000[f]	0.9	2.0	295	21	7	15	8	1/4	8431 0368 46
EP7PTX SR10-AT-L	M6	3/8	16 - 22	7 - 13	4000[f]	0.9	2.0	295	21	7	15	8	1/4	8431 0368 35
EP8PTX SR42-AT-L	M6	1/4[b]	20 - 28	7 - 14	5300[f]	0.9	2.0	295	21	8	15	10	1/4	8431 0367 81
EP8PTX SR10-AT-L	M6-M8	3/8	21 - 32	13 - 21	5300[f]	1.2	2.5	295	25	8	17	10	1/4	8431 0367 83

[a] To be used as a guide only, final torque depends on type of joint, accessories used and air pressure.
[b] Female hexagon drive. Quick change chuck.
[c] In full speed mode.
[d] With TRIM valve fully open.
[e] RE-reporting kit not included (Ordering No. 4250 1854 91).
[f] Measured at 5 bar air pressure.

XS models

In ErgoPulse non shut-off tools the tool produces pulses until the operator releases the trigger. Preferred in applications where it is an advantage for the operator to be able to control the process by shutting off the tool manually.

- High reliability and durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- No wear on key parts.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

EP6XS SR

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
EP6XS SR42	M6	1/4[b]	9 -19	6 - 14	8000	0.7	1.5	219	22	8	17	8	1/4	8431 0372 27
EP6XS SR10	M6	3/8	10 -20	7 - 15	8000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 25
EP7XS SR42	M8	1/4[b]	17 -28	13 - 21	10000	0.7	1.5	219	22	8	17	8	1/4	8431 0372 15
EP7XS SR10	M8	3/8	20 -31	15 - 23	10000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 05
EP8XS SR42	M8	1/4[b]	22 -40	16 - 29	8000	0.9	2.0	242	24	9	19	8	1/4	8431 0369 30
EP8XS SR10	M8-M10	3/8	30 -52	22 - 38	8000	0.9	2.0	244	24	9	19	8	1/4	8431 0369 20

[a] To be used as a guide only, final torque depends on type of joint, accessories used and air pressure.

[b] Female hexagon drive. Quick change chuck.

Optional Accessories

Guided extensions

Available for	Square drive in	Dia. of outgoing spindle mm	Length mm	Marking	Ordering No.
6-8XS,	3/8	13	100	EP10-13-100	4023 3600 00
5-8PT/PTS/PTX	3/8	13	150	EP10-13-150	4023 3601 00
	3/8	13	200	EP10-13-200	4023 3611 00
	3/8	13	250	EP10-13-250	4023 3612 00
	3/8	13	300	EP10-13-300	4023 3613 00
10C, 10-12XS	1/2	16	100	EP13-16-100	4023 3602 00
	1/2	16	150	EP13-16-150	4023 3603 00
	1/2	16	200	EP13-16-200	4023 3604 00
	1/2	16	250	EP13-16-250	4023 3614 00
	1/2	16	300	EP13-16-300	4023 3615 00
14XS, 9-13PTX,	1/2	18	100	EP13-18-100	4023 3605 00
10-12PT/PTS	1/2	18	150	EP13-18-150	4023 3606 00
	1/2	18	200	EP13-18-200	4023 3607 00
	1/2	18	250	EP13-18-250	4023 3616 00
	1/2	18	300	EP13-18-300	4023 3617 00
16XS/20XS,	3/4	25	100	EP20-25-100	4023 3608 00
14PTS/18PTS,	3/4	25	150	EP20-25-150	4023 3609 00
15PTX/19PTX	3/4	25	200	EP20-25-200	4023 3610 00
	3/4	25	250	EP20-25-250	4023 3618 00
	3/4	25	300	EP20-25-300	4023 3619 00

Guided extensions

Guided sockets

Available for	Square in	Width across mm/in	Diameter of outgoing mm	Marking	Ordering No.
Metric sockets					
6-8XS,	3/8	10	13	EP10-13	4026 4210 00
5-8PT/PTS/PTX	3/8	13	13	EP13-13	4026 4213 00
	3/8	16	13	EP16-13	4026 4216 00
	3/8	17	13	EP17-13	4026 4217 00
	3/8	18	13	EP18-13	4026 4218 00
	3/8	19	13	EP19-13	4026 4219 00
14XS, 9-13PTX,	1/2	13	18	EP13-18	4026 4313 00
10-12PT/PTS	1/2	16	18	EP16-18	4026 4316 00
	1/2	17	18	EP17-18	4026 4317 00
	1/2	18	18	EP18-18	4026 4318 00
	1/2	19	18	EP19-18	4026 4319 00
	1/2	24	18	EP24-18	4026 4324 00
16XS/20XS,	3/4	18	25	EP18-25	4026 4418 00
14PTS/18PTS,	3/4	24	25	EP24-25	4026 4424 00
15PTX/19PTX	3/4	30	25	EP30-25	4026 4430 00
UNC/UNF-sockets					
6-8XS,	3/8	7/16	13	EP7/16-13	4026 4211 00
5-8PT/PTS/PTX	3/8	1/2	13	EP1/2-13	4026 4212 00
	3/8	9/16	13	EP9/16-13	4026 4214 00
	3/8	3/4	13	EP3/4-13	4026 4219 00
14XS, 9-13PTX,	1/2	1/2	18	EP1/2-18	4026 4312 00
10-12PT/PTS	1/2	9/16	18	EP9/16-18	4026 4314 00
	1/2	3/4	18	EP3/4-18	4026 4319 00
	1/2	15/16	18	EP15/16-18	4026 4323 00
16XS/20XS,	3/4	3/4	25	EP3/4-25	4026 4419 00
14PTS/18PTS,	3/4	15/16	25	EP15/16-25	4026 4423 00
15PTX/19PTX	3/4	11/8	25	EP11/8-25	4026 4429 00

Guided sockets

Guided quick change chuck for power tools

Available for	Square drive in	Female hex in	Diameter of outgoing spindle mm	Marking	Ordering No.
6-8XS,	3/8	1/4	13	EP3/8-1/4-13	4026 4501 00
5-8PT/PTS/PTX	3/8	7/16	13	EP3/8-7/16-13	4026 4502 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	7/16	18	EP1/2-7/16-18	4026 4503 00

Guided quick change chuck

Optional Accessories

Pistol grip models	Protective cover	Support handle
EP6/7XS HR	4250 2089 00	
EP8XS HRX	4250 1895 00	
EP10XS HR	4250 1784 00	
EP12XS HR	4250 2459 00	
EP14XS HR	4250 2160 00	
EP16XS HR	4250 2282 00	4250 2396 91
EP20XS HR	4250 2288 00	Included
EP4/5/6PTX HR	4250 2465 00	
EP7/8PTX HR	4250 2466 00	
EP9PTX HR	4250 2467 00	
EP11PTX HR	4250 2551 00	
EP13PTX HR	4250 2718 00	4250 2396 81
EP15PTX HR	4250 2674 00	4250 2396 83
EP19PTX HR	4250 2719 00	4250 2396 82
EP5/6PT/PTS HR	4250 2393 00	
EP7/8PT/PTS HR	4250 1784 00	
EP10PT/PTS HR	4250 1743 00	
EP12PT/PTS HR	4250 1858 00	
EP14PTS HR	4250 2228 00	4250 2396 81
EP18PTS HR	4250 2319 00	4250 2396 80

For complete information, see spare parts list.

Support handle

Protective cover

Service Kits

The spare parts included in the service kits cover a normal overhaul of your tool. Always have them available for a fast and economical repair.

Main parts included:

- Vane kit
- Motor bearings
- Gaskets
- O-rings
- Circlips
- Pins etc.

Model	O-ring kit pulse unit	Service kit	Model	O-ring kit pulse unit	Service kit
EP5XS	4210 2532 93	4081 0264 90	EP7PTX HR	4250 2058 90	4081 0122 90
EP6/7XS HR	4250 2084 90	4081 0188 90	EP8PTX HR	4250 2267 91	4081 0279 90
EP6/7XS SR	4250 2084 90	4081 0189 90	EP9PTX HR	4250 2058 90	4081 0122 90
EP6PS HR	4250 2058 91	4081 0274 90	EP11PTX HR	4250 2267 95	4081 0310 90
EP8PS HR	4250 2059 90	4081 0120 90	EP13PTX HR	4250 2267 92	4081 0226 90
EP8XS HR	4250 2085 90	4081 0119 90	EP15PTX HR	4250 2267 93	4081 0242 90
EP8XS SR	4250 2085 90	4081 0190 90	EP19PTX HR	4250 2267 94	4081 0256 90
EP10XS HR	4250 2086 90	4081 0191 90	EP5/6PTS HR	4250 2058 90	4081 0122 90
EP12XS HR	4250 2087 90	4081 0192 90	EP7/8PTS HR	4250 2267 91	4081 0225 90
EP14XS HR	4250 2170 90	4081 0200 90	EP10PTS HR	4250 2267 90	4081 0222 90
EP16XS HR	4250 2281 90	4081 0223 90	EP12PTS HR	4250 2267 92	4081 0226 90
EP20XS HR	4250 2281 91	4081 0245 90	EP14PTS HR	4250 2267 93	4081 0242 90
EP4PTX HR	4250 2058 90	4081 0122 90	EP18PTS HR	4250 2267 94	4081 0256 90
EP5/6PTX HR	4250 2058 90	4081 0122 90			

Oil filling kit (150 ml oil, syringe) 4081 0121 90

For complete information, see spare parts list.

An impulse tool with fastening system intelligence

Atlas Copco's Pulsor C System gives you all the advantages of a controlled impulse tool, plus the intelligence of an electric fastening system. Like all Atlas Copco impulse tools, Pulsor C is fast, powerful, light and compact and generates virtually no reaction force. The controller remembers up to 4,000 tightenings that can be stored and analyzed. This enables you to fine-tune your process and ensure that every tightening in every shift is perfect. If they are not perfect, you can see why.

The Pulsor C, with its control system, is designed for quality critical applications. Pulsor C alerts you to mistakes as soon as they are made. Lights on the back of the tool indicate if screws are correctly tightened. They inform the user about torque, early shut-off or if parts have been forgotten. Pulsor C will control repeatability and can report results.

The system

The Pulsor C system comprises the tool, cable, controller and tool control box where the shut-off valve is located.

The tool

Pulsor C tools are an ergonomic, high-performance range of impulse nutrunners with signal lights to provide direct operator feedback. No mechanical torque setting in tool.

Cables

The strong, resistant electric tool cable is available in three versions: straight, coil and spiral.

Tool Control Box

Pressure adjustment and tool shut-off valves are located in this box.

Controller

The controller remembers up to 4,000 tightenings – everything from torque results and rundown time to identification number (see below for a full list of parameters). The results can easily be sent to a network and stored on a server. They can also be transferred directly to a PC and then analyzed in a program such as Excel. This means that you can easily fine-tune your process.

Pulsor monitors and records:

- Torque result
- Angle result
- Premature shut-off
- Number of pulses
- Tightening time
- Rundown time
- Barcode number

Software

The PC based ToolsTalk Pulsor C software is used for making all system settings.

- Tool settings
- Communication settings to factory networks

The Pulsor C tool is fast and powerful. It is also light, compact and generates virtually no reaction force, making it a very comfortable tool to work with.

- Fast rundown. Up to 9000 rpm for highest productivity.
- No need for reaction arm. Virtually no reaction force due to pulse tightening.
- Avoid downtime. Get an early warning with Tool drift alarm.
- Easy to service. Patented pulse technology with few parts.
- Plan service with service alarms.
- Illumination of working area with bright LED.
- Operator feedback after tightening with LED lights (OK/NOK).

Check with your local Atlas Copco Tools representative regarding availability on your market.

Model	Bolt size mm	Square drive in	Torque range Nm	Torque range ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Tools with ball retainer														
EPP6 C32 HR-B10	M6-M8	3/8	16-32	12-24	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 55
EPP8 C55 HR-B10	M8-M10	3/8	30-55	22-40	7000	1.5	3.4	172	26	8	17	10	1/4	8431 0380 59
EPP10 C90 HR-B13	M10	1/2	50-90	37-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 64
EPP11 C110 HR-B13	M12	1/2	70-110	51-88	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 68
Tools with pin retainer														
EPP6 C32 HR10	M6-M8	3/8	16-32	12-24	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 48
EPP8 C55 HR10	M8-M10	3/8	30-55	22-40	7000	1.5	3.4	172	26	8	17	10	1/4	8431 0380 57
EPP10 C90 HR13	M10	1/2	50-90	37-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 62
EPP11 C110 HR13	M12	1/2	70-110	51-88	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 66

Controller software

Pulsor's functionality is unlocked with the RBU (Rapid Backup Unit) key. This patented device gives you access to the functionality you need while providing a backup for the data you have programmed yourself.

Function	RBU Gold
Number of results in the result database	4000
Tool Setup	Yes
Tool Lock Box	Yes
Network/TCP/IP	Yes
I/O-bus (CAM-cabel)	Yes
Click wrench	Yes
ToolsNet	Yes
Number of Psets	up to 100
Number of jobs	up to 100
Statistics	Yes
Number of events	500
Barcode reader	Yes
Tool drift alarm	Yes

Optional Accessories

Tool accessories

Model	Ordering No.
Controllers	
Pulsor Focus 4000-C-HW	8433 6900 20
Pulsor Focus 4000-C-DN-HW	8433 6940 20
Pulsor Focus 4000-C-PB-HW	8433 6942 20
Pulsor Focus 4000-C-PN-HW	8433 6948 20
Pulsor Focus 4000-C-EIP-HW	8433 6949 20
Pulsor Focus 4000-C-IB-HW	8433 6945 20
Tool Control Box	
TCB-1E	8433 0606 40
RBU	
Pulsor C - Gold	8433 6020 20
TCB cables	
Cable PF - TCB, 1.2 m	4250 2901 01
Cable PF - TCB, 5 m	4250 2901 05
Cable PF - TCB, 10 m	4250 2901 10
Tool cables	
Straight 5 m	4250 2533 05
12 m	4250 2533 12
Spiral 5 m	4250 2533 06
12 m	4250 2533 13
Coil 3 m	4250 2533 53
5 m	4250 2533 55
7 m	4250 2533 57
Back plate (for attaching PF and TCB in one plate)	4250 2829 90
PCU - Pulsor Control Unit (Includes: controller, RBU, TCB, back plate, cable 1 m)	
PCU	8433 6990 30
ToolsTalk Pulsor C	
1-user license	8092 1281 01
5-user license	8092 1281 05
10-user license	8092 1281 10
Plant license	8092 1281 99
Suspension yoke (for upside down hanging, all models)	4250 2720 00

Tool Control Box (TCB)

Pulsor Focus

Spiral cable

Straight cable

Coil cable

Selector 4

Controller accessories

Model	Ordering No.
Rotary selector	8433 0606 15
I/O Expander	8433 0564 39
RE-Alarm	8433 0560 03
Selector 4	8433 0610 04
Selector 8	8433 0610 08
Operator panel basic	8433 0565 10
Operator panel advanced	8433 0565 00
Stacklights	
ESL-04 Standard	8433 0570 13
Rotating red	8433 0570 30
Rotating yellow	8433 0570 35
Siren	8433 0570 40
Compact	8433 0570 16
DSL-03 with push button	8433 0570 10
with blanking plugs	8433 0570 11

Stacklight DSL-03

Operator panel Basic

Tool hose kits

Model	Hose kit	Ordering No.
EPP6 - EPP10	Cablair 10, 5 m + Ergo couplings	8202 1180 78
EPP11	Cablair 13, 5 m + Ergo couplings	8202 1180 79

User-friendly tools offering power, speed and accuracy

The tools in Atlas Copco's broad range of pneumatic nutrunners offer a superior combination of power, speed and accuracy. With their advanced ergonomic designs, they are also extremely user-friendly and will contribute to raising productivity in a wide range of applications in your assembly plant.

Tools in Atlas Copco's range of pneumatic nutrunners are divided into three main categories: Angle, straight and pistol grip versions. These are also available in optional models, such as crowfoot, hold-and-drive, and flush socket.

The power to raise productivity

The high power output provided by Atlas Copco nutrunners is decisive for productivity, i.e., the combined performance of operator and tool. The tools are set at the optimal speed for every torque capacity rating. The balance between speed and clutch response gives high accuracy, ensuring torque repeatability, regardless of joint characteristics.

Comfortable to work with

Our pneumatic nutrunners live up to Atlas Copco's reputation for developing tools with good ergonomics. Low tool weights, thermally insulated grips and low noise and vibration levels all help to reduce operator fatigue and raise individual productivity in your plant.

Simplicity in selection and installation allow you to set the torque once and that is the torque you will get, joint after joint, without complicated analyses.

Choosing the right tool is easy

No joint is too complicated for a nutrunner. To set the torque, just adjust it to the required level, regardless of joint conditions.

A new angle on productivity

The LTV 9-2 and LTV 8 angle nutrunner range from Atlas Copco successfully combines two key performance factors – speed and accuracy. Consistently accurate, high-speed tightening is complemented by advanced ergonomic design, ensuring an unmatched level of productivity. All this is presented in a tool that is very easy to handle.

Angle nutrunners from Atlas Copco are certified for accuracy and durability by major car manufacturers. They are easy to choose, easy to set, and easy to operate.

Accurate every time

Hard or soft joint? You don't need to think about it. The tool gives the torque you install, independent of joint variations and variations in air pressure and lubrication. The clutch shuts off at the same torque, tightening after tightening.

Highest productivity

Instant disengagement of the clutch keeps torque over-shoot to a minimum even on the fastest tools. Our new models were developed to meet the most extreme requirements on operational speeds.

As always, we kept operator comfort in mind. The tools are well balanced, slim and comfortable to handle. Reaction forces are extremely low.

Job verification

For remote indication of clutch release function the tools can be equipped with air signal outlet – RE. This is often used for counting the number of fasteners in a tightening cycle.

LTV29-2 series

- Designed for high speed and small dimensions.
- Slim lightweight design.
- Soft, comfortable grip.
- Easy to reverse.
- Low reaction force.

LTV39-2 series

- The fastest nutrunners of this type.
- Powerful motor.
- Consistently high accuracy.
- Many operator-friendly features.

LTV FS flush socket tools

- Minimum angle head size gives good access.
- High torque accuracy.
- Integrated sockets give reduced angle head height.

LTV29-2

LTV39-2

Model	Bolt size mm	Square drive in	Socket size mm	Torque range soft joint Nm	Torque range soft joint ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Reversible																
LTV29-2 R12-Q	M6	1/4[a]	–	6 - 12	4.5 - 9	850	1.3	2.9	351	44	11	10	21	10	1/4	8431 0631 17
LTV29-2 R12-42	M6	1/4[b]	–	6 - 12	4.5 - 9	850	1.3	2.9	351	34	11	10	21	10	1/4	8431 0631 18
LTV29-2 R12-6	M6	1/4	–	6 - 12	4.5 - 9	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 15
LTV29-2 R12-B6	M6	1/4	–	6 - 12	4.5 - 9	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 00
LTV29-2 R12-10	M6	3/8	–	6 - 12	4.5 - 9	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 16
LTV29-2 R12-B10	M6	3/8	–	6 - 12	4.5 - 9	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 01
LTV29-2 R16-Q	M6	1/4[a]	–	9 - 16	7 - 12	850	1.3	2.9	351	44	11	10	21	10	1/4	8431 0631 24
LTV29-2 R16-42	M6	1/4[b]	–	9 - 16	7 - 12	850	1.3	2.9	351	34	11	10	21	10	1/4	8431 0631 23
LTV29-2 R16-6	M6	1/4	–	9 - 16	7 - 12	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 22
LTV29-2 R16-B6	M6	1/4	–	9 - 16	7 - 12	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 02
LTV29-2 R16-10	M6	3/8	–	9 - 16	7 - 12	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 21
LTV29-2 R16-B10	M6	3/8	–	9 - 16	7 - 12	850	1.3	2.9	351	27	11	10	21	10	1/4	8431 0631 03
LTV29-2 R24-10	M8	3/8	–	12 - 24	9 - 18	640	1.4	3.1	374	30	14	10	21	10	1/4	8431 0631 29
LTV29-2 R24-B10	M8	3/8	–	12 - 24	9 - 18	640	1.4	3.1	374	30	14	10	21	10	1/4	8431 0631 04
LTV29-2 R30-10	M8	3/8	–	15 - 30	11 - 22	500	1.4	3.1	374	30	14	10	21	10	1/4	8431 0631 37
LTV29-2 R30-B10	M8	3/8	–	15 - 30	11 - 22	500	1.4	3.1	374	30	14	10	21	10	1/4	8431 0631 36
LTV39-2 R16-10	M6	3/8	–	7 - 16	5 - 12	1200	1.5	3.3	375	27	11	16	34	10	1/4	8431 0633 09
LTV39-2 R16-B10	M6	3/8	–	7 - 16	5 - 12	1200	1.5	3.3	375	27	11	16	34	10	1/4	8431 0631 05
LTV39-2 R24-10	M8	3/8	–	12 - 24	9 - 18	870	1.6	3.5	385	30	14	16	34	10	1/4	8431 0633 14
LTV39-2 R24-B10	M8	3/8	–	12 - 24	9 - 18	870	1.6	3.5	385	30	14	16	34	10	1/4	8431 0631 06
LTV39-2 R30-10	M8	3/8	–	15 - 30	11 - 22	870	1.6	3.5	385	35	14	16	34	10	1/4	8431 0633 19
LTV39-2 R30-B10	M8	3/8	–	15 - 30	11 - 22	870	1.6	3.5	385	35	14	16	34	10	1/4	8431 0631 07
LTV39-2 R37-10	M8	3/8	–	22 - 37	16 - 27	708	1.7	3.7	405	35	18	16	34	10	1/4	8431 0633 24
LTV39-2 R37-B10	M8	3/8	–	22 - 37	16 - 27	708	1.7	3.7	405	35	18	16	34	10	1/4	8431 0631 08
LTV39-2 R48-10	M8	3/8	–	24 - 48	18 - 35	560	1.7	3.7	405	35	18	16	34	10	1/4	8431 0633 27
LTV39-2 R48-B10	M8	3/8	–	24 - 48	18 - 35	560	1.7	3.7	405	35	18	16	34	10	1/4	8431 0631 09
LTV39-2 R48-13	M8	1/2	–	24 - 48	18 - 35	560	2.0	4.4	425	41	20	16	34	10	1/4	8431 0633 43
LTV39-2 R48-B13	M8	1/2	–	24 - 48	18 - 35	560	2.0	4.4	425	41	20	16	34	10	1/4	8431 0631 10
LTV39-2 R56-10	M10	3/8	–	28 - 56	21 - 41	460	1.7	3.7	405	35	18	16	34	10	1/4	8431 0633 35
LTV39-2 R56-B10	M10	3/8	–	28 - 56	21 - 41	460	1.7	3.7	405	35	18	16	34	10	1/4	8431 0631 11
LTV39-2 R56-13	M10	1/2	–	28 - 56	21 - 41	460	2.0	4.4	425	41	20	16	34	10	1/4	8431 0633 51
LTV39-2 R56-B13	M10	1/2	–	28 - 56	21 - 41	460	2.0	4.4	425	41	20	16	34	10	1/4	8431 0631 12
LTV39-2 R70-13	M10	1/2	–	35 - 70	26 - 51	350	2.1	4.6	425	41	20	16	34	10	1/4	8431 0633 59
LTV39-2 R70-B13	M10	1/2	–	35 - 70	26 - 51	350	2.1	4.6	425	41	20	16	34	10	1/4	8431 0631 13
LTV39-2 R85-13	M10-12	1/2	–	43 - 85	32 - 63	305	2.5	5.5	500	52	25	16	34	10	1/4	8431 0633 67
LTV39-2 R85-B13	M10-12	1/2	–	43 - 85	32 - 63	305	2.5	5.5	500	52	25	16	34	10	1/4	8431 0631 14
Flush socket																
LTV29-2 R24 FS	M8	–	13	12 - 24	9 - 18	640	1.4	3.7	374	30	14	10	21	10	1/4	8431 0632 34
LTV29-2 R30 FS	M8	–	13	15 - 30	11 - 22	500	1.3	3.1	355	34	15	10	21	10	1/4	8431 0632 38
LTV39-2 R37 FS	M8	–	13	22 - 37	16 - 27	708	1.7	3.7	405	35	18	16	34	10	1/4	8431 0632 41
LTV39-2 R48 FS	M8	–	13	24 - 48	18 - 35	560	1.7	3.7	406	40	18	16	34	10	1/4	8431 0632 42
LTV39-2 R56 FS	M8	–	13	28 - 56	21 - 41	460	1.7	3.7	406	40	18	16	34	10	1/4	8431 0632 46
LTV39-2 R70 FS	M10	–	16	35 - 70	26 - 51	350	2.1	4.6	425	50	20	16	34	10	1/4	8431 0632 51
LTV39-2 R85 FS	M10-12	–	19	43 - 85	32 - 63	305	2.5	5.5	500	70	25	16	34	10	1/4	8431 0632 58

[a] Quick change chuck. [b] Female hex drive.

LTV28 and 38 series

- Highest reliability when tightening M5-M12 screws.
- Small, durable gears.
- Precise clutch.
- Reliable motor.

LTV48 series

- Robust, reliable tools.
- Reversible for torques up to 200 Nm.
- Comfortable to operate due to low weight and smooth handles.
- Reaction bars and other accessories available.

LTV FS flush socket tools

- Minimum angle head size gives good access.
- High torque accuracy.
- Integrated sockets give reduced angle head height.
- Same tightening characteristics as LTV tools.
- Same motor, clutch and gear parts as the LTV range.


LTV28


LTV38


LTV48

Model	Bolt size mm	Square drive in	Socket size mm	Torque range soft joint Nm	Torque range soft joint ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Reversible																
LTV28 R07-6	M5	1/4	–	2.5 - 7	1.8 - 5	1100	1.3	2.9	334	28.5	10	8	17	8	1/4	8431 0601 65
LTV28 R07-42	M5	1/4[a]	–	2.5 - 7	1.8 - 5	1100	1.3	2.9	334	28.5	10	8	17	8	1/4	8431 0601 73
LTV28 R07-Q	M6	1/4[b]	–	2.5 - 7	1.8 - 5	1100	1.3	2.9	334	28.5	10	8	17	8	1/4	8431 0601 68
LTV28 R15-6	M6	1/4	–	7 - 15	5 - 11	560	1.4	3.1	349	28	11	10	21	10	1/4	8431 0601 52
LTV28 R15-42	M6	1/4[a]	–	7 - 15	5 - 11	560	1.4	3.1	349	28	11	10	21	10	1/4	8431 0601 58
LTV28 R15-Q	M6	1/4[b]	–	7 - 15	5 - 11	560	1.4	3.1	349	28	11	10	21	10	1/4	8431 0601 53
LTV28 R15-10	M6	3/8	–	7 - 15	5 - 11	560	1.4	3.1	349	28	11	10	21	10	1/4	8431 0601 55
LTV28 R20-10	M6	3/8	–	10 - 19	7 - 15	530	1.4	3.1	355	34.5	13.5	10	21	10	1/4	8431 0601 50
LTV28 R20-42	M6	1/4[a]	–	10 - 20	7 - 15	420	1.4	3.1	350	34	13.5	10	21	10	1/4	8431 0601 48
LTV28 R28-10	M8	3/8	–	14 - 28	10 - 21	340	1.4	3.1	350	29.5	13.5	10	21	10	1/4	8431 0601 40
LTV28 R28-42	M8	3/8	–	14 - 28	10 - 21	340	1.4	3.1	350	29.5	13.5	10	21	10	1/4	8431 0601 40
LTV28 RL28-10	M8	3/8	–	14 - 28	10 - 21	80	1.4	3.1	350	29.5	13.5	10	21	10	1/4	8431 0601 33
LTV38 R42-10	M8	3/8	–	20 - 42	15 - 31	400	2.0	4.4	436	34.5	18	16	34	10	1/4	8431 0603 55
LTV38 R42-13	M8	1/2	–	20 - 42	15 - 31	400	2.2	4.8	453	41	20	16	34	10	1/4	8431 0603 69
LTV38 R50-10	M10	3/8	–	25 - 50	18 - 36	330	2.0	4.4	436	34.5	18	16	34	10	1/4	8431 0603 63
LTV38 R50-13	M10	1/2	–	25 - 50	18 - 36	330	2.2	4.8	453	41	20	16	34	10	1/4	8431 0603 71
LTV38 R57-13	M10	1/2	–	30 - 57	22 - 41	280	2.2	4.8	453	41	20	16	34	10	1/4	8431 0603 51
LTV38 R70-13	M10	1/2	–	34 - 70	24 - 50	225	2.4	5.3	487	41	20	16	34	10	1/4	8431 0603 46
LTV38 R85-13	M10-12	1/2	–	40 - 85	29 - 61	190	2.8	6.1	530	52	25	16	34	10	1/4	8431 0603 38
LTV48 R120-L13	M12	1/2	–	70 - 120	51 - 88	215	3.5	7.6	590	52	25	28	59	12.5	1/2	8431 0534 88
LTV48 R150-L13	M12	1/2	–	70 - 150	51-111	170	3.5	7.6	590	52	25	28	59	12.5	1/2	8431 0534 93
LTV48 R200-L13	M14	1/2	–	115 - 200	85-148	100	3.8	8.3	610	52	25	28	59	12.5	1/2	8431 0534 98
Reversible. Flush socket models																
LTV28 R20 FS	M6	–	13	8 - 20	6 - 15	500	1.4	3.1	352	34	13.5	10	21	10	1/4	8431 0608 02
LTV28 R28 FS	M8	–	13	14 - 28	10 - 21	340	1.4	3.1	350	34	13.5	10	21	10	1/4	8431 0608 00
LTV38 R50 FS	M10	–	15	25 - 50	18 - 37	360	2.2	4.8	454	53	20	18	38	10	1/4	8431 0609 85
LTV38 R65 FS	M12	–	16	34 - 65	25 - 48	280	2.6	5.7	515	53	20	18	38	10	1/4	8431 0609 87
LTV48 R120 FS	M12	–	19	70 - 120	37 - 88	220	3.5	7.6	590	70	25	28	59	12.6	1/2	8431 0610 12
LTV48 R150 FS	M12	–	19	70 - 150	44 - 111	180	3.5	7.6	590	70	25	28	59	12.7	1/2	8431 0610 17
LTV48 R200 FS	M14	–	19	115 - 200	85-148	100	3.8	8.3	610	70	25	28	59	12.8	1/2	8431 0610 21

[a] Female hex drive.
[b] Quick change chuck.

LTV69 series

- New twin motor – higher rundown speed, accurate tightening.
- High torques.
- Good access in cramped spaces.

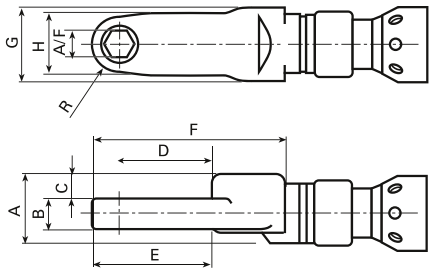
LTV69

Model	Bolt size mm	Square drive in	Min torque at 3 bar soft joint Nm	Min torque at 3 bar soft joint ft lb	Min torque at 6.3 bar soft joint Nm	Min torque at 6.3 bar soft joint ft lb	Max torque at 6.3 bar soft joint Nm	Max torque at 6.3 bar soft joint ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Reversible																			
LTV69 R180-13[a]	M16	1/2	70	52	100	74	170	125	840	5.1	11.1	592	50	25.3	20	42	13	1/2"	8431 0830 04
LTV69 R370-20[a]	M18	3/4	140	103	190	140	370	273	480	7.6	16.6	634	62	32.9	20	42	13	1/2"	8431 0830 15
LTV69 R600-25[a]	M22	1	230	170	400	295	600	443	280	10.2	22.6	676	77	54.0	20	42	13	1/2"	8431 0830 21
Non-reversible																			
LTV69 N180-13	M16	1/2	70	52	100	74	170	125	840	4.6	10.1	577	50	25.3	20	42	13	1/2"	8431 0830 35
LTV69 N370-20	M18	3/4	140	103	190	140	370	273	480	7.1	15.6	619	62	32.9	20	42	13	1/2"	8431 0830 46
LTV69 N600-25	M22	1	230	170	400	295	600	443	280	9.7	21.3	661	77	54.0	20	42	13	1/2"	8431 0830 52

[a] Fixed reverse.

In-Line crowfoot tools

Dimensions

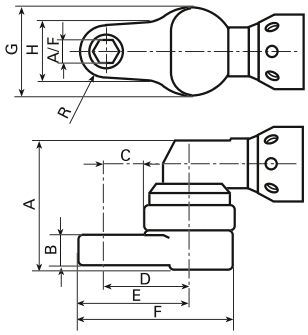


LTC

Model	Torque Nm	Torque ft lb	Speed r/min	Weight kg	Weight lb	Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	R mm	Ordering No.
LTC009 R08-10-LI4	4 - 8	3 - 6	210	1.3	2.9	330	10	34	10	13.5	37	41	65.6	35	22	10	8431 0613 72
LTC009 R12-10-LI5	6 -12	4 - 8	140	1.3	2.9	346	10	34	15	12.5	36.7	59	65.6	35	22	10	8432 0613 64
LTC009 R14-10-LI4	5 - 14	5 - 10	175	1.3	2.9	346	10	34	10	15	52	54	79.5	35	31	14.5	8431 0613 56
LTC28 R07-10-LI3	2.5 - 7	1.9 - 5.3	920	2.2	4.9	573	10	36	15	12.5	46.7	59.2	82.2	35	22	10	8431 0616 00
LTC28 R13-10-LI3	6 - 13	5 - 10	555	2.2	4.9	590	10	36	15	12.5	46.7	59.2	82.2	35	22	10	8431 0616 01
LTC28 R18-10-LI3	10 - 18	8 - 14	386	2.2	4.9	590	10	36	15	12.5	46.7	59.2	82.2	35	22	10	8431 0616 02
LTC28 R08-12-LI3	3 - 8	2.3 - 6	770	2.2	4.9	573	12	34	15	12.5	58.5	71	94	35	30	13	8431 0616 03
LTC28 R15-12-LI3	7 - 15	5 - 11	460	2.2	4.9	590	12	34	15	12.5	58.5	71	94	35	30	13	8431 0616 04
LTC28 R20-12-LI3	12 - 20	9 - 15	320	2.2	4.9	600	12	34	15	12.5	58.5	71	94	35	30	13	8431 0616 05
LTC28 R08-12-LI3	3 - 8	2.3 - 6	830	2.2	4.9	590	12	34	10	15	54.3	54.3	102	35	31	14.5	8431 0616 06
LTC28 R14-12-LI3	6 - 14	5 -11	500	2.2	4.9	590	12	34	10	15	54.3	54.3	102	35	31	14.5	8433 0616 07
LTC28 R22-12-LI3	11 - 22	8 - 17	345	2.2	4.9	600	12	34	10	15	54.3	54.3	102	35	31	14.5	8431 0616 08
LTC38 R28-12-LI3	14 - 28	11 - 22	470	2.9	6.4	560	12	34	10	15	54.3	54.3	102	35	31	14.5	8431 0616 09
LTC38 R34-21-LI3	16 - 34	12 - 26	390	3.4	7.6	560	21	47	20	16	95.1	44	158.8	64	40	20	8431 0616 10
LTC38 R57-21-LI3	28 - 57	21 - 43	490	4.0	8.9	647	21	47	20	16	95.1	44	158.8	64	40	20	8431 0616 12
LTC48 R150-22-LI3	103 - 150	78 - 113	605	5.1	11.3	780	22	48	33	14	84	84	161.5	64	40	20	8431 0616 15

Offset crowfoot tools

Dimensions

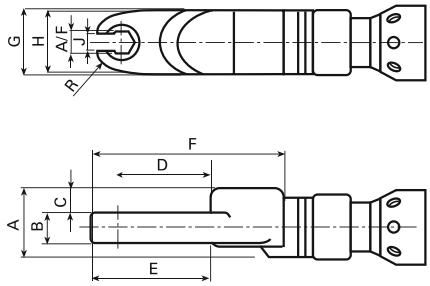


LTC

Model	Torque Nm	Torque ft lb	Speed r/min	Weight kg	Weight lb	Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	R mm	Ordering No.
LTC29-2 R08-13-LO5	4 - 8	3 - 6	850	1.4	3.1	400	13	57	10	71.6	93.6	108.1	128.6	44	31	14.5	8431 0615 00
LTC29-2 R10-10-LO3	5 - 10	4 - 7	850	1.4	3.1	374	10	60.3	15	14.55	32.8	42.8	57.8	36.5	22	10	8431 0615 01
LTC29-2 R18-10-LO3	10 - 18	7 - 13	640	1.4	3.1	435	10	60.3	15	14.55	32.8	42.8	57.8	36.5	22	10	8431 0615 02
LTC29-2 R21-13-LO5	11 - 21	8 - 15	500	1.7	3.8	457	13	57	10	71.6	93.6	108.1	128.6	44	31	14.5	8431 0615 04
LTC39-2 R28-12-LO5	17 - 28	13 - 21	560	2.5	5.6	484	12	69.5	15	62	84	97	117.5	44	30	13	8431 0615 08
LTC39-2 R40-14-LO3	22 - 40	16 - 29	460	2.4	5.3	466	14	69.5	18	24.8	46.8	61.3	81.8	44	31	14.5	8431 0615 11
LTC39-2 R60-16-LO3	34 - 60	25 - 44	305	3.0	6.7	471	16	77.8	24	27	51	66	88.5	48	30	15	8431 0615 14
LTC48 R80-17-LO3	56 - 80	41 - 59	215	4.0	8.9	638	17	81	27	31.8	55.8	72.3	94.8	48	33	16.5	8433 0615 17
LTC48 R90-21-LO5	49 - 90	48 - 66	170	4.7	10.4	717	21	89.4	20	24	132	152	178	62.5	40	20	8432 0615 19
LTC48 R96-18-LO3	56 - 96	41 - 71	210	4.7	10.4	620	18	96.6	32	32	63.2	82.2	108.2	62.5	38	19	8431 0615 21
LTC48 R140-18-LO3	92 - 140	68 - 103	100	5.0	11.1	645	18	96.6	32	32	63.2	82.2	108.2	62.5	38	19	8433 0615 23
LTC58 R200-21-LO3	120 - 200	88 - 147	240	9.7	21.6	723	21	148.8	40	46.2	70.4	91.4	125.4	77	42	21	8432 0615 28
Extra heavy duty attachments																	
LTC38 R33-13-AO3	16 - 33	16 - 29	430	2.6	5.7	508	13	60	19	33	53	69	86	40	35	16	8431 0611 01
LTC38 R40-17-AO3	23 - 40	17 - 29	360	3.0	6.6	540	17	66	19	45	68	87	109	45	43	19.5	8431 0611 08
LTC48 R56-17-AO3	24 - 56	18 - 41	400	3.9	8.6	600	17	66	19	45	68	87	109	45	43	19.5	8431 0611 06
LTC48 R96-19-AO3	40 - 96	30 - 71	220	4.3	9.5	640	19	87	25	62	68	88	113	51	50	20	8431 0611 11
LTC48 R120-19-AO3	48 - 120	36 - 89	180	4.3	9.5	640	19	87	25	62	68	88	113	51	50	20	8431 0611 15

In-Line tube nut tools

Dimensions

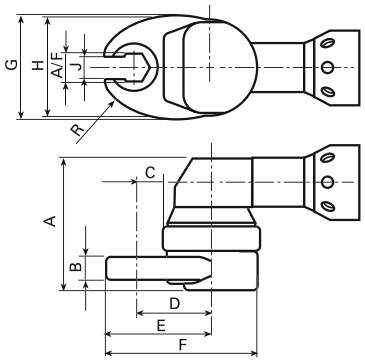


LTO

Model	Torque Nm	Torque ft lb	Speed r/min	Weight kg	Weight lb	Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	R mm	Ordering No.
LTO28 R06-8-LI3	4 - 6	3 - 4	1100	1.7	3.7	3.7	8	32	11	12.3	26.2	21.6	60	33.5	29	7.8	8431 0617 00
LTO28 R08-8-LI3	6 - 8	4 - 6	560	1.7	3.7	3.7	8	32	11	12.3	26.2	21.6	60	33.5	29	7.8	8431 0617 01
LTO28 R12-8-LI3	8 - 12	6 - 9	430	1.7	3.7	3.7	8	32	10	13	27.3	15.6	67.1	33.5	31	9.8	8431 0617 03
LTO28 R12-10-LI3	9 - 12	7 - 9	430	1.7	3.7	3.7	10	32	10	13	27.3	15.6	67.1	33.5	31	9.8	8431 0612 44
LTO28 R14-8-LI3	8 - 14	6 - 10	430	1.7	3.7	3.7	8	32	10	13	27.3	15.6	67.1	33.5	31	9.8	8431 0617 04
LTO28 R15-10-LI3	9 - 15	7 - 11	410	1.9	4.2	4.2	10	32	12	11	27.9	26.1	67.7	33.5	32	10.3	8431 0612 46
LTO28 R15-10-LI3	11 -15	8 - 11	340	2.0	4.4	4.4	10	32	12	11	27.9	26.1	67.7	33.5	32	10.3	8431 0617 05
LTO28 R17-13-LI3	11 - 17	8 - 13	340	2.0	4.4	4.4	13	36	12	14.5	36.3	19.9	84.2	38	38	12.4	8431 0612 48
LTO28 R17-10-LI3	11 - 17	8 - 13	340	2.0	4.4	4.4	10	32	12	11	27.9	26.1	67.7	33.5	32	10.3	8431 0617 06
LTO38 R20-10-LI3	13 - 20	10 - 15	215	2.3	5.0	5.0	10	34	14	13	43.4	29.7	78.6	38	38	20	8431 0617 07
LTO38 R20-10-LI3	13 - 20	10 - 15	215	2.8	6.1	6.1	10	43	11	17.5	43.7	29.6	96.5	50	50	15	8431 0617 08
LTO38 R26-13-LI3	13 - 26	10 -19	520	3.3	7.2	7.2	13	46	11	20.8	52	30.1	123	55	55	17.2	8431 0612 50
LTO38 R28-10-LI3	22 - 28	16 - 20	225	2.8	6.1	6.1	12	43	11	17.5	43.7	29.6	96.5	50	50	15	8431 0617 09
LTO38 R20-12-LI3	13 - 20	10 - 15	215	2.8	6.1	6.1	12	43	18	14	34.3	44	83	40	40	12.4	8431 0617 10
LTO38 R26-17-LI3	13 - 26	10 - 19	570	3.3	7.2	7.2	17	46	12	20	60.3	18.7	150	59	59	20.1	8431 0612 54
LTO38 R30-12-LI3	22 - 30	16 - 22	225	2.8	6.1	6.1	12	43	18	14	34.3	44	83	40	40	12.4	8431 0617 11

Offset tube nut tools

Dimensions



LTO

Model	Torque Nm	Torque ft lb	Speed r/min	Weight kg	Weight lb	Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	J mm	R mm	Ordering No.
LTO28 R05-10-LO3	3 - 5	2.3 - 3.8	1100	1.9	4.2	353	10	63.3	12	6.8	25.1	35.6	50.6	36.5	7	9.8	8431 0618 00
LTO28 R11-10-LO3	7 - 11	5 - 8	560	1.9	4.2	373	10	63.3	12	6.8	25.1	35.6	50.6	36.5	7	9.8	8431 0618 01
LTO28 R05-10-LO5	3 - 5	2.3 - 3.8	1100	2.0	4.4	381	10	61.8	10	42.7	60.9	71.4	86.4	36.5	7	9.8	8431 0618 02
LTO28 R09-10-LO5	6 - 9	5 - 7	560	2.1	4.7	381	10	61.8	10	42.7	60.9	71.4	86.4	36.5	7	9.8	8431 0618 03
LTO28 R11-12-LO5	8 - 11	6 - 8	470	2.1	4.7	409	12	62	11	22.6	72	84.9	105.4	44	8	11.9	8431 0618 04
LTO28 R17-12-LO5	11 - 17	8 - 13	300	2.1	4.7	418	12	62	11	22.6	72	84.9	105.4	44	8	11.9	8431 0618 05
LTO28 R13-12-LO3	9 - 13	7 - 10	470	2.0	4.4	379	12	64	11	9.4	31.4	47.4	64.3	44	8.5	11.9	8431 0618 06
LTO28 R18-12-LO3	13 - 18	10 - 14	300	2.0	4.4	379	12	64	11	9.4	31.4	47.4	64.3	44	8.5	11.9	8431 0618 07
LTO28 R13-12-LO3	9 - 13	7 - 10	470	2.0	4.4	377	12	64	14	7	29	40.2	60.7	44	8	14	8431 0618 08
LTO28 R18-12-LO3	13 - 18	10 - 14	300	2.0	4.4	377	12	64	14	7	29	40.2	60.7	44	8	14	8431 0618 09
LTO28 R18-13-LO3	13 - 18	10 - 14	300	2.0	4.4	379	13	65	11	12.8	36.8	51.8	74.3	48	10.4	15	8431 0618 10
LTO38 R25-13-LO3	18 - 25	14 - 19	184	2.0	4.4	485	13	65	11	12.8	36.8	51.8	74.3	48	10.4	15	8431 0618 11
LTO38 R22-13-LO5	16 - 22	12 - 17	184	2.3	5.1	520	13	72.5	18	52.4	74.4	87.7	108.2	44	10.4	12.4	8431 0618 12
LTO38 R32-13-LO5	22 - 32	17 - 24	190	2.3	5.1	520	13	72.5	18	52.4	74.4	87.7	108.2	44	10.4	12.4	8431 0618 13

Hold and Drive

Hold and drive bolts are being used increasingly by, for example, truck manufacturers on the frame assembly line, making what used to be a two-man operation, a one-man task. No reaction arms. The distinguishing feature of a hold and drive bolt is that one part is held and the other is tightened from the same side.

LTV HAD

- Especially suitable for shock absorber assembly.
- Special tools based on the standard LTV series are available for use on hold and drive bolts.
- Reaction torque is absorbed while the bolt is gripped during assembly.
- HAD sockets are available in three different lengths.
- Special sockets available upon request.
- Also suitable for break-away bolts, Hi Lok/Hi Shear.

NOTE: The screw must be strong enough to carry the final torque.

LTV38 HAD

Model	Bolt size mm	Torque range soft joint[a] Nm	Torque range soft joint[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LTV38 R40 LT HAD[b]	M8-10	15 - 40	11 - 30	210	3.0	6.5	530	52	25	10	16	10	1/4	8431 0609 52
LTV38 R42 HAD	M8	20 - 42	15 - 31	430	2.2	4.8	453	41	20	10	16	10	1/4	8431 0603 75
LTV38 R50 HAD	M10	25 - 50	18 - 36	360	2.2	4.8	453	41	20	10	16	10	1/4	8431 0603 82
LTV38 R85 HAD	M10-12	40 - 85	30 - 67	210	3.0	6.5	530	52	25	10	16	10	1/4	8431 0609 58
LTV48 R120 HAD	M12-14	70 - 120	52 - 89	220	3.3	7.3	590	70	25	28	59	12.5	1/2	8431 0610 26
LTV48 R150 HAD	M14	70 - 150	52 - 111	180	3.3	7.3	590	70	25	28	59	12.5	1/2	8431 0610 30
LTV48 R200 HAD	M14	115 - 200	85 - 150	100	3.3	7.3	610	70	25	28	59	12.5	1/2	8431 0610 32
LTV69 R370 HAD	M18	190 - 370	140 - 273	480	7.6	16.6	634	62	33	20	42	12.5	1/2	8431 0831 65

[a] At min 5 bar.
[b] For low torque applications.

NOTE: For sockets and holders see accessory pages.
Other types of Hold and Drive equipped tools are available on special request.

Stall type

- Low inertia design gives accurate torque independent of joint stiffness – in other words, low mean shift.
- Easy torque setting by adjusting the inlet air pressure.
- Reliable, well-proven design.
- Good accessibility due to small dimensioned angle head.

Model	Bolt size mm	Square drive in	Torque range soft joint at 6.3 bar Nm	at 6.3 bar ft lb	at 3 bar Nm	at 3 bar ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Reversible																	
LMV28 R11-10	M6	3/8	11	8	5	4	1200	1.1	2.4	264	28	11	10	21	10	1/4	8431 0591 07
LMV28 R14-10	M6	3/8	14	10	7	5	1000	1.1	2.4	264	29.5	13.5	10	21	10	1/4	8431 0591 09
Non reversible																	
LMV28 N16-10	M6	3/8	16	12	8	6	1000	1.0	2.2	239	29.5	13.5	11	23	10	1/4	8431 0590 17

Ratchet wrenches

- Unique accessibility, the ratchet wrench is a superior tool for limited space applications.
- To loosen, turn the tool upside down.

Model	Bolt size mm	Square drive in	Torque range soft joint at 6.3 bar Nm	at 6.3 bar ft lb	at 3 bar Nm	at 3 bar ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LBR33 S26/114-13	M8	13[a]	22	16	11	8	185	1.4	3.1	290	15	13	9.5	20	10	1/4	8431 0345 71
LBR33 S26/118-16	M8-10	16[a]	30	22	15	11	135	1.4	3.1	300	15	18	9.5	20	10	1/4	8431 0346 70
LBR33 S26/118-17	M8-10	17[a]	30	22	15	11	135	1.4	3.1	300	15	18	9.5	20	10	1/4	8431 0346 62

[a] Female hex drive.

Worm-drive nutrunners

- Teasing throttle characteristics give significantly reduced free speed.
- Suitable for:
  - Nutrunning
  - Light reaming
  - Tapping
  - Tube-rolling
- Can also be incorporated in rigs as air motors for intermittent operation.

Model	Bolt size mm	Square drive in	Torque range soft joint at 6.3 bar Nm	at 6.3 bar ft lb	at 3 bar Nm	at 3 bar ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
LMK22 S004	M8	7/16[a]	19	14	9	7	450	1.0	2.2	240	30	31	6	13	6	1/4	8431 0242 26
LMK22 S002	M10	7/16[a]	23	17	11	8	200	1.0	2.2	240	30	31	6	13	6	1/4	8431 0242 18
LMK33 S005	M10	7/16[a]	29	21	14	10	480	1.7	3.7	263	39	41	9.5	20	10	1/4	8431 0343 24
LMK33 S002	M10-12	7/16[a]	32	24	16	12	235	1.9	4.2	291	39	41	9.5	20	10	1/4	8431 0343 16
LMK33 S001	M10-12	7/16[a]	55	41	27	20	130	2.2	4.9	385	39	41	9.5	20	10	1/4	8431 0343 08

[a] Female hex drive.

Accessories Included

For LTV models
Clutch adjustment key

For LBR, LMV and LMK models
Socket adapter, 3/8" square drive LMK22,
1/2" square drive LMK33

Optional Accessories

Extensions for LTV

Suitable for tool	Length of extension –"L" mm	in	Ordering No.
LTV28	75	3	4210 3491 93
LTV28	150	6	4210 3491 95
LTV38 (not R70/R85)	75	3	4210 4301 80
LTV38 (not R70/R85)	150	6	4210 4302 80
LTV38 R70/R85/LTV48	75	3	4210 4303 80
LTV38 R70/R85/LTV48	150	6	4210 4304 80
LTV39-2 R48-10	75	3	4210 4472 81
LTV39-2 R48-10	150	6	4210 4472 83
LTV39-2 R48/56/70-13	75	3	4210 4472 80
LTV39-2 R48/56/70-13	150	6	4210 4473 80
LTV39-2 R56-10	75	3	4210 4472 82
LTV39-2 R56-10	150	6	4210 4472 84
LTV39-2 R85	75	3	4210 4474 80
LTV39-2 R85	150	6	4210 4475 80

Reaction bar kit

Protective cover (a)

Protective cover (b)

Signal connection kit (RE)

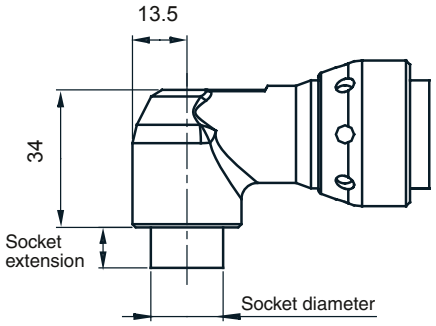
For LTV and LTC models

Model	Exhaust hose	Suspension yoke Fixed	Suspension yoke Swivelling	Protective cover (see picture)	Reaction bar kit	Signal connection kit (-RE)
LTV28 R07	4210 2053 00	4210 1631 82	4210 3931 80	4210 3990 00[a]		4210 4019 90
LTV28, all models except R07	4210 2053 00	4210 1631 82	4210 3931 80	4210 3990 00[a]		4210 4018 90
LTV29-2/39-2	4210 2053 00	4210 1631 82	4210 4408 80			4210 4017 90
LTV29-2/39-2 R12/R16				4220 2744 05[b]		
LTV29-2/39-2 R24/R30				4220 2744 03[b]		
LTV38 R42/R50/R57	4210 2053 00	4210 1631 82	4210 3931 81	4210 3992 90[a] (not LTC)		4210 4017 90
LTC38, LTV38 FS						
LTV38 R70	4210 2053 00	4210 1631 82	4210 3931 81	4210 4003 90[a]		4210 4017 90
LTV38 R85, LTV38 HAD	4210 2053 00	4210 1631 82	4210 3931 81	4210 4004 90[a]	4210 4020 80	4210 4017 90
LTV39-2 R48-10/R50-10				4220 2744 02[b]		
LTV39-2 R48-13/R50-13/R70				4220 2744 04[b]		
LTV48 R65	4210 4011 00	4210 4061 80	4210 4021 80	4210 4058 90[a]	4210 4020 80	4210 4057 90
LTV48 R120/R150/R200, LTC48, LTV48 FS, LTV48 HAD	4210 4011 00	4210 4061 80	4210 4021 80	4210 4059 90[a]	4210 4020 80	4210 4057 90
LTV69 N/R180	4210 4011 00		4210 3088 87	4210 4059 90[a]	4220 1128 80	
LTV69 N/R370	4210 4011 00		4210 3088 87		4220 1201 80	
LTV69 N/R600	4210 4011 00		4210 3088 87		4220 1746 80	

Optional Accessories

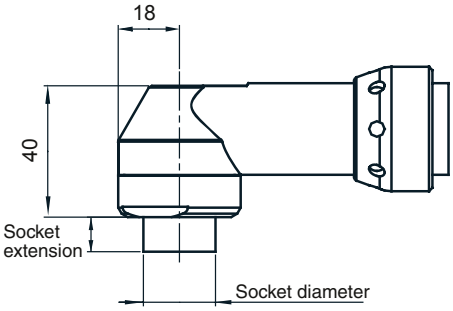
Integrated sockets – LTV28 R20 FS/R28 FS/XX R28 FS and LTV29 R30 FS

Width across flats mm/in	Socket extension mm	Socket diameter mm	Socket type	Bit lock principle	Ordering No.
10	0	17.9	HEX		4220 1589 10
10	15	17.9	HEX		4220 1589 20
13	0	17.9	HEX		4220 1589 13
13	2	17.9	HEX		4220 1589 33
13	5	17.9	HEX		4220 1589 23
13	15	17.9	HEX		4220 1589 34
6.35=1/4"	0	17.9	HEX, bit holder	magnet	4220 3354 14
8=5/16"	0	17.9	HEX, bit holder	magnet	4220 3354 08



Integrated sockets – LTV38 R50 FS/N55 FS, LTV39-2 R48 FS and LTV39-2 R56 FS

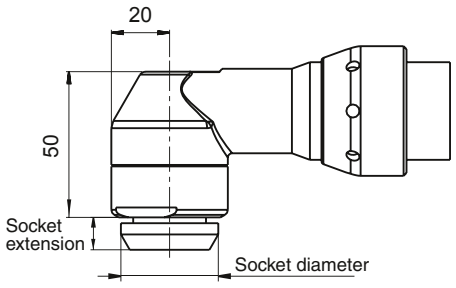
Width across flats mm/in	Socket extension mm	Socket diameter mm	Socket type	Bit lock principle	Ordering No.
12.7=1/2"	0.1	20.9	HEX		4220 1676 33
13	0.1	20.9	HEX		4220 1676 01
13	10.1	20.9	HEX		4220 1676 13
13	21.1	20.9	HEX		4220 1676 23
14	0.1	20.9	HEX		4220 1676 14
15	0.1	20.9	HEX		4220 1676 15
7.95=5/16"	0.1	20.9	HEX	special	4220 1676 04
8=5/16"	12.1	20.9	HEX	special	4220 1676 06



Integrated sockets – LTV38 R65/N85 FS, LTV39-2 R70 FS

Width across flats mm/in	Socket extension mm	Socket diameter mm	Socket type	Bit lock principle	Ordering No.
10	3.3	27.5	HEX		4220 1621 04
11	2.8	27.5	HEX	Side hole	4220 0815 01
12	3.3	27.5	HEX		4210 2749 03
13	3.3	27.5	HEX		4210 2749 01
14	3.3	27.5	HEX		4210 2749 04
15	1.3	27.5	HEX		4220 1621 01
15	3.3	27.5	HEX		4210 2749 02
15	8.3	27.5	HEX	Special	4210 2749 10
15	16.3	27.5	HEX		4220 1621 00
16	0.5	27.5	HEX		4220 1251 00
16	4.3	27.5	HEX		4210 2882 01
17	4.3	27.5	HEX		4210 2882 02
18	4.3	27.5	HEX		4210 2882 03
7/16"	3.3	27.5	HEX		4210 2749 06
9/16"	3.3	27.5	HEX		4210 2749 05

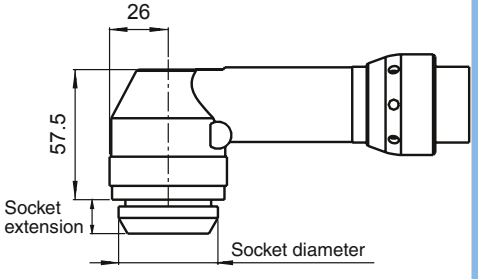
Other dimensions on request.



Integrated sockets – LTV39-2 R85 FS and LTV48 R120 FS/R150 FS/R200 FS

Width across flats mm	Socket extension mm	Socket diameter mm	Bit lock principle	Ordering No.
Hex				
15	6.5	37.5	SF	4210 3534 15
17	8.5	37.5	SF	4210 3534 17
18	2	37.5	SF	4210 3534 68
18	5.5	41.5	SF	4220 1595 02
18	8.5	37.5	SF	4210 3534 18
19	9.5	37.5	SF	4210 3534 19
21	10.5	37.5	SF	4210 3534 21
22	10.5	37.5	SF	4210 3534 22
24	10.5	37.5	SF	4210 3534 24
24	13.5	41.5	SF	4220 1595 01
27	13.8	40.5	SF	4210 3534 27
Female Torx				
E-10	5.5	37.5	Female TX	4210 3534 30
E-12	5.5	37.5	Female TX	4210 3534 32
E-14	5.5	37.5	Female TX	4210 3534 34
E-16	5.5	37.5	Female TX	4210 3534 36
E-18	5.5	37.5	Female TX	4210 3534 38
E-20	5.5	37.5	Female TX	4210 3534 40
E-20	8.5	40.5	Female TX	4220 2044 01

Other dimensions on request.



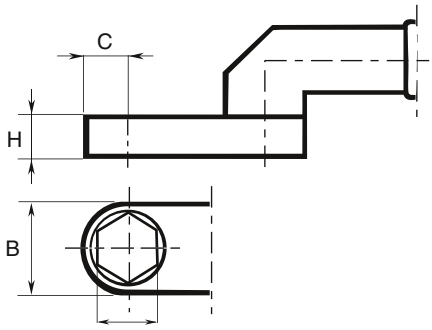
Optional Accessories for Crowfoot tools

Hex sockets

Width across flats mm	Width across flats in	Ordering No.
For LTC38 R33/N41-13-A-O-3[a]		
	7/16	4210 2625 03
12		4210 2625 04
	1/2	4210 2625 01
13		4210 2625 00
14		4210 2625 02
15		4210 2625 06
For LTC38 R40/N48-17-A-O-3[b], LTC48 R56-17-A-O-3[b]		
13		4210 2626 06
14		4210 2626 04
15		4210 2626 03
	1/2	4210 2626 05
	5/8	4210 2626 02
16		4210 2626 00
17		4210 2626 01
18		4210 2626 10
19		4210 2626 08
For LTC48 R96/R120-19-A-O-3[c]		
13		4210 2624 06
14		4210 2624 05
15		4210 2624 04
16		4210 2624 03
17		4210 2624 02
18		4210 2624 01
19	3/4	4210 2624 00

[a] 13 mm socket mounted on tool.
[b] 17 mm socket mounted on tool.
[c] 19 mm socket mounted on tool.

Model	H mm	B mm	C mm
LTC38 R33-13-A-O-3	19	32	16
LTC38 R40-17-A-O-3	19	39	20
LTC48 R56-17-A-O-3	19	39	20
LTC48 R96-19-A-O-3	25	39	20
LTC48 R120-19-A-O-3	25	39	20
LTC38 N41-13-A-O-3	19	32	16

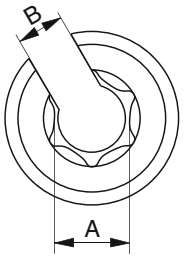


Optional Accessories for Open End Type

Sockets

A Socket size mm	B Open end mm	Ordering No.
LTO28 R12-10-L-I-3		
5/16"	7	4210 4288 54
8 mm	7	4210 4288 55
3/8"	7	4210 4288 53
9 mm	7	4210 4288 52
10 mm	7	4210 4288 51
LTO28 R15-10-L-I-3		
8 mm	8	4210 4289 56
9 mm	8	4210 4289 55
3/8"	8	4210 4289 54
10 mm	8	4210 4289 51
11 mm	8	4210 4289 57
7/16"	8	4210 4289 58
12 mm	8	4210 4289 53
LTO28 R17-13-L-I-3		
3/8"	8.5	4210 4290 52
10 mm	8.5	4210 4290 53
11 mm	8.5	4210 4290 59
7/16"	8.5	4210 4290 54
12 mm	8.5	4210 4290 57
1/2"	8.5	4210 4290 55
13 mm	8.5	4210 4290 51
14 mm	8.5	4210 4290 58
9/16"	8.5	4210 4290 56

A Socket size mm	B Open end mm	Ordering No.
LTO38 R26-13-L-I-3		
11 mm	12.5	4210 4291 63
13 mm	12.5	4210 4291 51
14 mm	12.5	4210 4291 58
9/16"	12.5	4210 4291 53
15 mm	12.5	4210 4291 55
5/8"	12.5	4210 4291 54
16 mm	12.5	4210 4291 52
17 mm	12.5	4210 4291 60
11/16"	12.5	4210 4291 56
18 mm	12.5	4210 4291 61
19 mm	12.5	4210 4291 62
3/4"	12.5	4210 4291 57
LTO38 R26-17-L-I-3		
14 mm	14	4210 4292 55
5/8"	14.6	4210 4292 54
17 mm	16	4210 4292 51
18 mm	16	4210 4292 53
19 mm	16	4210 4292 57
3/4"	16	4210 4292 52
20 mm	16	4210 4292 61
13/16"	16	4210 4292 63
21 mm	16	4210 4292 62
22 mm	16	4210 4292 56
7/8"	16	4210 4292 58
15/16"	16	4210 4292 60
24 mm	17.2	4210 4292 59



Optional Accessories for Stall type

Female hex sockets

Dimensions in	Ordering No. LBR33 S26/114	Ordering No. LBR33 S26/118	Dimensions in	Ordering No. LBR33 S26/114	Ordering No. LBR33 S26/118
1/4	4210 0360 05	–	10	4210 0414 10	–
5/16	4210 0360 02	–	12	4210 0414 12	4210 0418 12
3/8	4210 0360 03	4210 0389 02	13	4210 0414 13	4210 0418 13
7/16	4210 0360 04	4210 0389 03	14	4210 0414 14	4210 0418 14
1/2	4210 0360 01	4210 0389 04	15	4210 0414 15	4210 0418 15
9/16	–	4210 0389 06	16	–	4210 0418 16
5/8	–	4210 0389 01	17	–	4210 0418 17
3/4	–	4210 0389 05	18	–	4210 0418 18
			19	–	4210 0389 05

NOTE: That 1/2" female hex sockets must be used together with socket adapters.

Socket adapters

Dimensions	Ordering No. LBR33 S26/114	Ordering No. LBR33 S26/118
1/2" hex 3/8" square drive	4090 0163 00	4090 0163 00
1/2" hex 1/2" square drive	4090 0164 00	4090 0164 00

Optional Accessories for Hold and Drive tools

Nut socket, screw holder and bit holder for LTV38 R42-HAD/LTV38 R50-HAD

Nut socket (Fig. 1)

Width across flats W mm	Socket Ø D mm	Ordering No. A	B	C
10	22	4220 1769 16	4220 1769 31	4220 1769 51
11	22	4220 1769 15	4220 1769 32	4220 1769 52
12	22	4220 1769 13	4220 1769 33	4220 1769 53
13	22	4220 1769 09	4220 1769 12	4220 1769 54
14	22	4220 1769 05	4220 1769 35	4220 1769 08
15	22	4220 1769 14	4220 1769 36	4220 1769 56
16	25	4220 1888 71	4220 1888 81	4220 1888 91
17	25	4220 1888 72	4220 1888 82	4220 1888 92
18	26	4220 1888 73	4220 1888 83	4220 1888 93
19	27	4220 1888 74	4220 1888 84	4220 1888 94
20	31	4220 1888 75	4220 1888 85	4220 1888 95
21	31	4220 1888 76	4220 1888 86	4220 1888 96

Screw holder

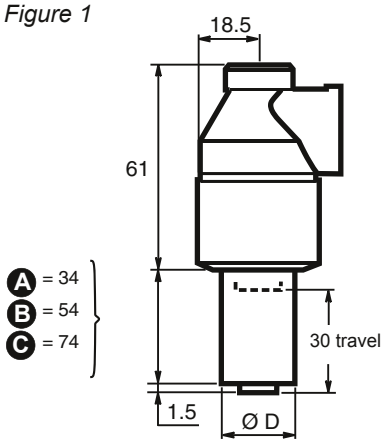
Dimension X x Y mm	Suitable socket size mm	Ordering No. A	B	C
6.6 x 5	10-21	4220 1770 19	–	–
7 x 5	10-21	–	4220 1770 17	–
5.1 x 8.2	10-21	4220 1770 01	–	4220 1770 16
8 x 6	10-21	4220 1770 02	–	–

Bit holder

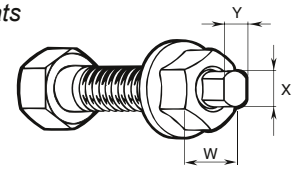
Bit holder 1/4" A	B	C	Width N, mm	Bits
4220 1959 01	4220 1959 04	4220 1959 03	10-21	1/4"

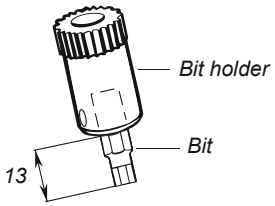
Measurements in mm

Figure 1



Two flats





Optional Accessories for Hold and Drive tools

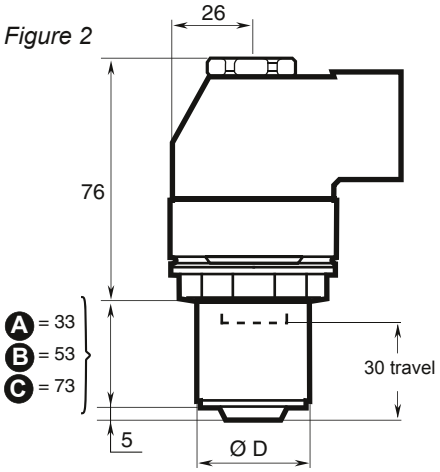
Nut socket, screw holder and bit holder for LTV38 R40 LT/R 85 HAD and LTV48 HAD

Nut socket (Fig. 2)

Width across flats W mm	Socket Ø D mm	Ordering No. Ⓐ	Ⓑ	Ⓒ
13	30	4210 3513 13	4210 3513 33	4210 3513 53
14	30	4210 3513 14	4210 3513 34	4210 3513 54
15	30	4210 3513 15	4210 3513 35	4210 3513 55
16	30	4210 3513 16	4210 3513 36	4210 3513 56
17	30	4210 3513 17	4210 3513 37	4210 3513 57
18	31	4210 3513 18	4210 3513 38	4210 3513 58
19	32	4210 3513 19	4210 3513 39	4210 3513 59
21	35	4210 3513 21	4210 3513 41	4210 3513 61
22	35	4210 3513 22	4210 3513 42	4210 3513 62
24	35	4210 3513 24	4210 3513 44	4210 3513 64

Measurements in mm

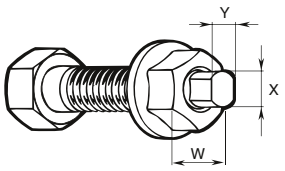
Figure 2



Screw holder – Two flats

Dimension X x Y mm	Suitable socket size mm	Ordering No. Ⓐ	Ⓑ	Ⓒ
8 x 6.3	15-24	4210 2694 17	4210 2694 18	4210 2694 19
8 x 6	15-24	4210 2694 05	4210 2694 10	4210 2694 15
9.55 x 7.6	18-24	4210 2694 01	4210 2694 06	4210 2694 11
11.20 x 8.9	19-24	4210 2694 02	4210 2694 07	4210 2694 12
13 x 9.8	19-24	4210 2694 03	4210 2694 08	4210 2694 13
13.20 x 10.5	19-24	4210 2694 04	4210 2694 09	4210 2694 14

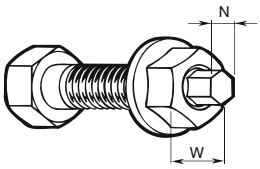
Two flats



Screw holder – Male hexagon

Dimension N mm	Suitable socket size mm	Ordering No. Ⓐ	Ⓑ	Ⓒ
7	14-24	4210 2825 41	4210 2825 42	4210 2825 43
8	14-24	4210 2825 01	4210 2825 05	4210 2825 09
9	15-24	4210 2825 02	4210 2825 06	4210 2825 10
10	18-24	4210 2825 03	4210 2825 07	4210 2825 11
11	19-24	4210 2825 04	4210 2825 08	4210 2825 12
12	19-24	4210 2825 13	4210 2825 14	4210 2825 15

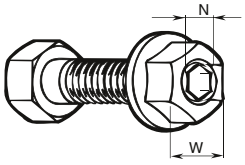
Male hexagon



Bit holder – Female hexagon

Bit holder 5/16" Ⓐ	Ⓑ	Ⓒ	5/16" Bits Width N, mm	Ordering No.
4210 2991 91	4210 2991 92	4210 2991 93	5	4023 1215 00
			6	4023 1216 00
			7	4023 1219 00
			8	4023 1217 00
			10	4023 1218 00

Female hexagon



Optional Accessories for Hold and Drive tools

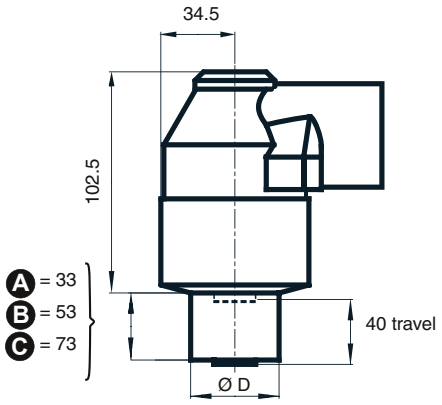
Nut socket, screw holder and bit holder for LTV58 R350-HAD

Nut socket (Fig. 3)

Width across flats W mm	Socket Ø D mm	Ordering No. A	B	C
18	41	4220 1778 04	4220 1778 14	4220 1778 24
19	41	4220 1778 05	4220 1778 15	4220 1778 25
20	41	4220 1778 06	4220 1778 16	4220 1778 26
21	41	4220 1778 07	4220 1778 17	4220 1778 27
22	41	4220 1778 08	4220 1778 18	4220 1778 28
23	41	4220 1778 09	4220 1778 19	4220 1778 29
24	41	4220 1778 01	4220 1778 11	4220 1778 21
25	41	4220 1778 02	4220 1778 12	4220 1778 22
25.4=1"	41	4220 1778 10	4220 1778 20	4220 1778 30
26	41	4220 1778 03	4220 1778 13	4220 1778 23
27	46	–	4220 2139 84	4220 2139 94
28	46	–	4220 2139 83	4220 2139 93
29	46	–	4220 2139 82	4220 2139 92
30	46	–	4220 2139 81	4220 2139 91
31	54	–	4220 2297 81	4220 2297 91
32	54	–	4220 2297 82	4220 2297 92
33	54	–	4220 2297 83	4220 2297 93
34	54	–	4220 2297 84	4220 2297 94
35	54	–	4220 2297 85	4220 2297 95
36	54	–	4220 2297 86	4220 2297 96

Measurements in mm

Figure 3



Screw holder – Two flats for LTV69 R370-HAD

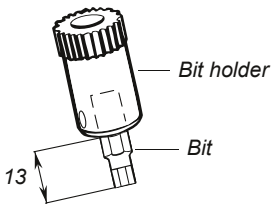
Dimension X x Y N mm	Suitable socket size mm	Ordering No. A	B	C
13 x 9.8	18-36	4220 1777 80	4220 1777 83	4220 1777 85
13.20 x 10.5	18-36	4220 1777 81	4220 1777 84	4220 1777 86

Screw holder – Male hexagon for LTV69 R370-HAD

Dimension N mm	Suitable socket size mm	Ordering No. A	B	C
10	18-36	4220 1777 52	4220 1777 54	4220 1777 72
11	18-36	4220 1777 51	4220 1777 50	4220 1777 73
12	20-36	4220 1777 53	4220 1777 55	4220 1777 74
14	20-36	4220 1777 57	4220 1777 56	4220 1777 75
16	24-36	4220 1777 58	4220 1777 70	4220 1777 76
18	24-36	4220 1777 59	4220 1777 71	4220 1777 77

Bit holder

Bit holder	Socket size mm	Ordering No. A	B	C
7	14-24	4210 2825 41	4210 2825 42	4210 2825 43
5/16"	18-20	4220 1777 88	4220 1777 89	4220 1777 90
5/16"	21-36	4220 1777 82	4220 1777 85	4220 1777 87



NOTE: 8 mm bit is included in the bit holders.

Installation Proposals

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For small nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
For small nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
For nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
For nutrunners with 1/2" BSP air inlet					
MIDI Optimizer F/R EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

Service Kits

The spare parts included in the service kits cover a normal overhaul of your tool. Always have them available for a fast and economical repair.

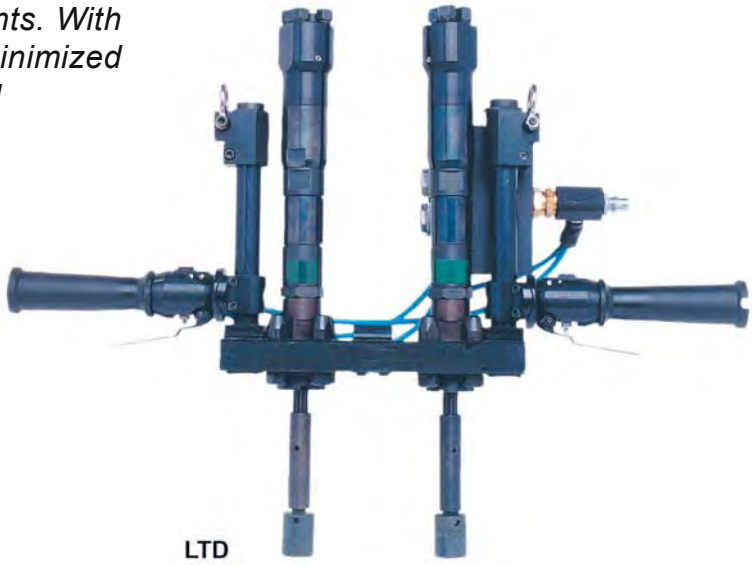
Main parts included:

- Vane kit
- Motor bearings
- Gaskets
- O-rings
- Circlips
- Pins etc.

Model	Service kit
LTV28	4081 0102 90
LTV29-2	4081 0299 90
LTV38	4081 0103 90
LTV39-2	4081 0298 90
LTV48	4081 0236 90
LTV69	4081 0397 90

Fast, flexible and user-friendly

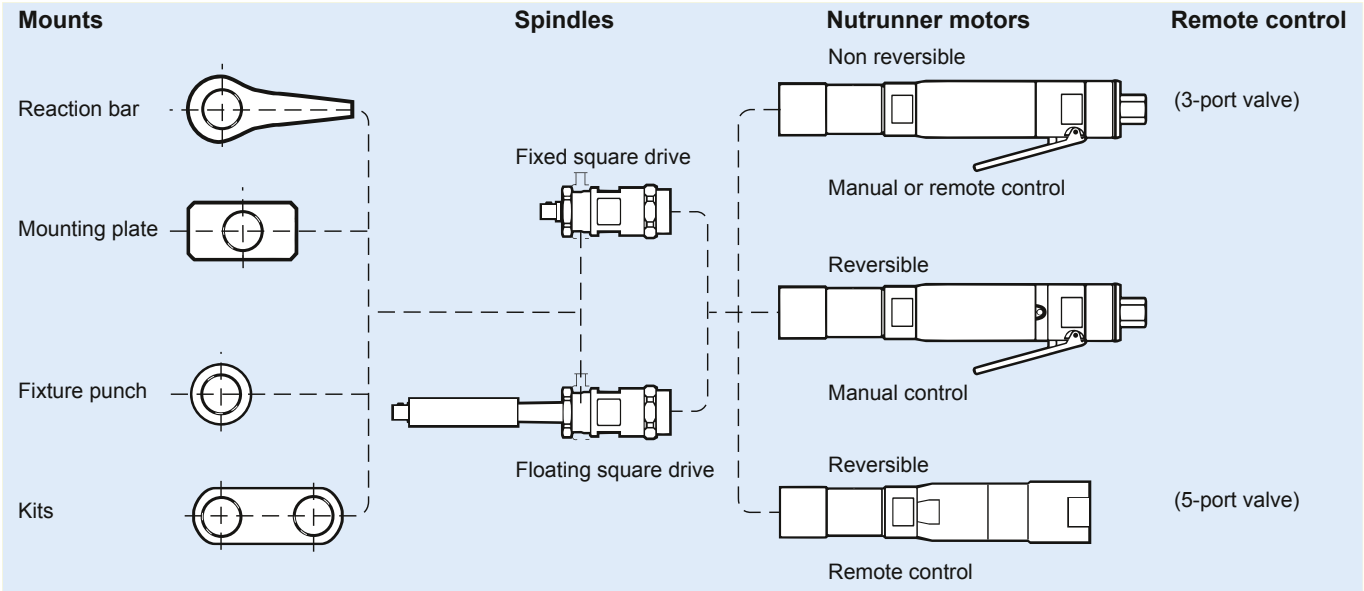
The LTD system offers a flexible, low-cost solution to many advanced tightening requirements. With fixtured tools the operator influence is minimized and very high torque accuracy is achieved



Articulating arms
Where a fixed support on the workpiece for a reaction bar is not available, a telescopic or articulated arm mounted LTD nutrunner can be an efficient solution.

Second fastener
By combining two LTD straight nutrunners in a twin spindle unit the screws can be tightened simultaneously.

The LTD system



- **Reaction bar blanks** – For single spindle hand-held applications.
- **Mounting plates** – The LTD/LMD straight nutrunners have a splined reaction bar connection which can also be used for fixed assembly of the nutrunner. A number of standard mounting plates are available to order.
- **Floating square drive** – For two or more spindles the units must usually have floating spindles to compensate for run-down variations. Models with floating square drive or telescopic front parts are available.
- **Fixture punches** – For mounting of the nutrunner to locally made base plates a punch for the splines connection is available as optional equipment.
- **TwinSpin Kit** – A kit for building your own twin spindle assembly unit is available as extra equipment. Atlas Copco offers three sizes of twin spindle multiples. intended for 28, 38 and 48/61 sizes. The CC-distance in the TwinSpin is adjustable and the largest size has a maximum CC-distance of 364 mm. The smallest size has a minimum CC-distance of 53 mm. The complete set has two throttle handles, one for forward and one for reverse (if the system is non reversible there is only one throttle handle).
- **Remote control** – Remote control valves are available as optional equipment.
- **Air signal outlets** – All LTD models are equipped with air signal outlets for completed operation.

LTD28, 38 and 48 straight nutrunners are based on the power package and clutch from the LTV angle nutrunners.

LTD/LMD61 nutrunners are based on the unique LTP/LMP61 range of twin motor pistol grip nutrunners. With fast rundown and accurate final tightening they offer high productivity and unmatched torque accuracy as well as joint independence.

- Remote control back head – A remote valve is connected to the back head of the LTD-RR tools allowing a better multiple.
- Accessibility – Slim design allows the building of smooth, simple multiples or paired splndle designs. The absence of a clutch makes these tools shorter.
- Flexibility – The range of LTD tools provides you with the options you need to meet your requirements.
- Reversibility – Reversible LTD tools are available.

LTD28

LTD61

Model	Bolt size mm	Square drive in	Torque range soft joint Nm	Torque range soft joint ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Non reversible, lever start														
LTD28 N9-RE	M5-6	3/8	5 - 9	4 - 6	1400	1.1	2.4	339	20	9	19	10	1/4	8431 0534 05
LTD28 N18-RE	M6	3/8	8 -18	6 - 13	780	1.2	2.6	358	20	9	19	10	1/4	8431 0534 08
LTD28 N21-RE	M6	3/8	10 -21	7 - 15	570	1.2	2.6	358	20	9	19	10	1/4	8431 0534 13
LTD28 N22-RE	M6	3/8	10 -22	7 - 16	140	1.2	2.6	358	20	9	19	10	1/4	8431 0534 18
Reversible, lever start														
LTD28 R8-RE	M5-6	3/8	3 - 8	2 - 6	1100	1.2	2.6	363	20	8	17	10	1/4	8431 0534 61
LTD28 R16-RE	M6	3/8	7 -16	6 - 12	610	1.3	2.9	383	20	8	17	10	1/4	8431 0534 65
LTD28 R20-RE	M6-8	3/8	10 -20	7 - 15	520	1.3	2.9	383	20	8	17	10	1/4	8431 0534 51
LTD28 R22-RE	M6-8	3/8	10 -22	7 - 16	125	1.3	2.9	383	20	8	17	10	1/4	8431 0534 54
Reversible, remote control back head														
LTD13 R05-RR	M3-5	1/4[b]	1.5 - 5	1.1-3.7	850	0.7	1.6	197	16	7	15	8	1/8	8431 0533 05
LTD13 R08-RR	M3-5	1/4[b]	1.5 - 8	1.1 - 6	500	0.8	1.7	197	16	7	15	8	1/8	8431 0533 06
LTD25 R13-RR	M2.5-6	1/4[b]	8 -13	6 10	300	1.1	2.4	224	19	7	15	10	1/4	8431 0533 11
LTD28 R8-RR	M5-6	3/8	3 - 8	2 - 6	1100	1.2	2.6	294	20	8	17	10/13	[a]	8431 0703 80
LTD28 R16-RR	M6	3/8	7 -16	6 - 12	610	1.3	2.9	313	20	8	17	10/13	[a]	8431 0703 82
LTD28 R20-RR	M6-8	3/8	10 -20	7 - 15	520	1.3	2.9	313	20	8	17	10/13	[a]	8431 0703 83
Non reversible, lever start, telescopic front part, travel 25 mm														
LTD28 N9F-RE	M5-6	3/8	5 - 9	4 - 6	1400	1.5	3.3	447	20	9	19	10	1/4	8431 0534 21
LTD28 N18F-RE	M6	3/8	8 -18	6 - 13	780	1.6	3.5	466	20	9	19	10	1/4	8431 0534 27
LTD28 N21F-RE	M6	3/8	10 -21	7 - 15	570	1.6	3.5	466	20	9	19	10	1/4	8431 0534 39
LTD28 N22F-RE	M6	3/8	10 -22	7 - 16	140	1.6	3.5	466	20	9	19	10	1/4	8431 0534 43
Reversible, lever start, telescopic front part, travel 25 mm														
LTD28 R8F-RE	M5-6	3/8	3 - 8	2 - 6	1100	1.6	3.5	471	20	8	17	10	1/4	8431 0534 78
LTD28 R16F-RE	M6	3/8	7 -16	6 - 12	620	1.7	3.7	491	20	8	17	10	1/4	8431 0534 85
LTD28 R20F-RE	M6-8	3/8	10 -20	7 - 15	570	1.7	3.7	491	20	8	17	10	1/4	8431 0534 37
LTD28 R22F-RE	M6-8	3/8	10 -22	7 - 16	125	1.7	3.7	491	20	8	17	10	1/4	8431 0534 89
Reversible, remote control back head, telescopic front part, travel 25 mm														
LTD28 R8F-RR	M5-6	3/8	3 - 8	2 - 6	1100	1.6	3.5	401	20	8	17	10/13	[a]	8431 0703 84
LTD28 R16F-RR	M6	3/8	7 -16	6 - 12	620	1.7	3.7	421	20	8	17	10/13	[a]	8431 0703 86
LTD28 R20F-RR	M6-8	3/8	10 -20	7 - 15	570	1.7	3.7	421	20	8	17	10/13	[a]	8431 0703 88
Non-reversible, lever start														
LTD38 N30-RE	M8	1/2	14 -30	10 - 21	820	2.2	4.8	414	20	16	34	10	1/4	8431 0535 04
LTD38 N38-RE	M8	1/2	20 -38	15 - 27	680	2.2	4.8	414	20	16	34	10	1/4	8431 0535 12
LTD38 N44-RE	M8-10	1/2	18 -44	13 - 32	580	2.2	4.8	414	20	20	42	10	1/4	8431 0535 17
LTD38 N55-RE	M10	1/2	27 -55	20 - 40	470	2.2	4.8	487	20	20	42	10	1/4	8431 0535 20
Reversible, lever start														
LTD38 R27-RE	M8	1/2	13 -27	10 - 20	670	2.1	4.6	441	20	16	34	10	1/4	8431 0534 53
LTD38 R32-RE	M8	1/2	18 -32	13 - 24	560	2.1	4.6	441	20	16	34	10	1/4	8431 0534 52
LTD38 R38-RE	M8-10	1/2	19 -38	14 - 28	480	2.1	4.6	441	20	16	34	10	1/4	8431 0535 78
LTD38 R47-RE	M8-10	1/2	22 -47	16 - 35	380	2.3	5.1	513	20	20	42	10	1/4	8431 0535 83

Continued...

Model	Bolt size mm	Square drive in	Torque range soft joint Nm	Torque range soft joint ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Reversible, remote control back head														
LTD38 R27-RR	M8	1/2	13-27	10-20	670	2.1	4.6	377	21	16	34	10/16	[a]	8431 0704 22
LTD38 R32-RR	M8	1/2	18-32	13-24	560	2.1	4.6	377	21	16	34	10/16	[a]	8431 0704 24
LTD38 R38-RR	M8-10	1/2	19-38	14-28	480	2.1	4.6	377	21	16	34	10/16	[a]	8431 0704 26
LTD38 R47-RR	M8-10	1/2	22-47	16-35	380	2.3	5.1	448	21	16	34	10/16	[a]	8431 0704 28
Non-reversible, lever start, telescopic front part, travel 25 mm														
LTD38 N30F-RE	M8	1/2	14-30	10-21	820	2.3	5.0	521	20	20	42	10	1/4	8431 0535 38
LTD38 N38F-RE	M8	1/2	20-38	15-27	680	2.3	5.0	521	20	20	42	10	1/4	8431 0535 46
LTD38 N44F-RE	M8-10	1/2	18-44	13-32	580	2.3	5.0	521	20	20	42	10	1/4	8431 0535 31
LTD38 N55F-RE	M10	1/2	27-55	20-40	470	2.5	5.5	599	23	20	42	10	1/4	8431 0535 53
Reversible, lever start, telescopic front part, travel 25 mm														
LTD38 R27F-RE	M8	1/2	13-27	10-20	670	2.5	5.5	546	20	16	34	10	1/4	8431 0535 65
LTD38 R32F-RE	M8	1/2	18-32	13-24	560	2.5	5.5	546	20	16	34	10	1/4	8431 0535 91
LTD38 R38F-RE	M8-10	1/2	19-38	14-28	480	2.5	5.5	546	20	16	34	10	1/4	8431 0535 95
LTD38 R47F-RE	M8-10	1/2	22-47	16-35	380	2.7	5.9	625	23	16	34	10	1/4	8431 0535 99
Reversible, remote control back head, telescopic front part, travel 25 mm														
LTD38 R27F-RR	M8	1/2	13-27	10-20	670	2.5	5.5	482	21	16	34	10/16	[a]	8431 0704 30
LTD38 R32F-RR	M8	1/2	18-32	13-24	560	2.5	5.5	482	21	16	34	10/16	[a]	8431 0704 32
LTD38 R38F-RR	M8-10	1/2	19-38	14-28	480	2.5	5.5	482	21	16	34	10/16	[a]	8431 0704 34
LTD38 R47F-RR	M8-10	1/2	22-47	16-35	380	2.7	5.9	566	23	16	34	10/16	[a]	8431 0704 36
Reversible, lever start														
LTD48 R65-RE[d]	M10	1/2	27-65	20-48	400	3.1	6.8	582	30	28	59	12.5	1/2	8431 0637 07
LTD48 R81-RE[d]	M12	1/2	32-81	24-60	320	3.1	6.8	582	30	28	59	12.5	1/2	8431 0637 12
Reversible, remote control back head														
LTD48 R65-RR	M10	1/2	27-65	20-48	400	3.5	7.7	410	28	30	63	12.5/16	[c]	8431 0704 46
LTD48 R81-RR	M12	1/2	32-81	24-60	330	3.5	7.7	410	28	30	63	12.5/16	[c]	8431 0704 48
Reversible, lever start, telescopic front part, travel 25 mm														
LTD48 R65F-RE[d]	M10	1/2	27-65	20-48	400	3.5	7.7	700	30	28	59	12.5	1/2	8431 0637 17
LTD48 R81F-RE[d]	M12	1/2	32-81	24-60	320	3.5	7.7	700	30	28	59	12.5	1/2	8431 0637 23
Reversible, remote control back head														
LTD48 R65F-RR	M10	1/2	27-65	20-48	400	3.7	8.2	522	28	30	63	12.5/16	[c]	8431 0704 50
LTD48 R81F-RR	M12	1/2	32-81	24-60	330	3.7	8.2	522	28	30	63	12.5/16	[c]	8431 0704 52

[a] Air inlet thread = 2 x 1/4" + 1 x 3/8".
[b] 1/4" quick change chuck.
[c] Air inlet thread = 2 x 1/2" + 1 x 3/4".
[d] Optional RE kit LTD48 RE Ordering No. 4210 4057 90.

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar Nm	Torque range at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
Torque control models with fixed square drive																
LTD61 H100-13-RE	M12	1/2	55-100	40-75	45	35	1800	3.0	6.6	223	29	20	42	3/8	3	8431 0808 06
LTD61 H170-13-RE	M14	1/2	95-170	70-125	70	50	1100	3.0	6.6	223	29	20	42	3/8	3	8431 0808 15
LTD61 H230-19-RE	M16	3/4	125-230	90-170	85	60	820	3.0	6.6	223	29	20	42	3/8	3	8431 0808 23
LTD61 H350-20-RE	M18	3/4	190-350	140-255	145	105	520	3.9	8.6	260	31	20	42	3/8	4	8431 0808 27
LTD61 H500-20-RE	M20	3/4	275-500	200-370	220	160	360	3.9	8.6	260	31	20	42	3/8	4	8431 0808 36
LTD61 H700-25-RE	M22	1	360-650	265-480	280	207	280	4.5	9.9	305	34	20	42	3/8	5	8431 0808 43
LTD61 H900-25-RE	M24	1	480-870	350-640	300	220	210	4.5	9.9	282	32	20	42	3/8	5	8431 0808 45

NOTE: Change over torque is around 4% of maximum torque on a given pressure.

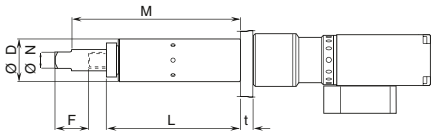
Model	Bolt size mm	Square drive in	Max torque at 6.3 bar Nm	Max torque at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
Stall type models with fixed square drive																
LMD61 H100-13-RE	M12	1/2	100	75	60	45	2200	3.0	6.6	223	29	20	42	3/8	3	8431 0809 02
LMD61 H170-13-RE	M14	1/2	170	125	100	75	1400	3.0	6.6	223	29	20	42	3/8	3	8431 0809 10
LMD61 H230-19-RE	M16	3/4	230	170	130	95	1000	3.0	6.6	223	29	20	42	3/8	3	8431 0809 12
LMD61 H350-20-RE	M18	3/4	350	260	200	145	650	3.9	8.6	260	31	20	42	3/8	4	8431 0809 28
LMD61 H500-20-RE	M20	3/4	500	370	300	220	450	3.9	8.6	260	31	20	42	3/8	4	8431 0809 30
LMD61 H700-25-RE	M22	1	700	520	400	295	350	4.5	9.9	305	34	20	42	3/8	5	8431 0809 41
LMD61 H900-25-RE	M24	1	900	665	500	365	260	4.5	9.9	282	34	20	42	3/8	5	8431 0809 49

NOTE: Change over torque is around 4% of maximum torque on a given pressure.

Dimensions

Telescopic front part LMD/LTD61

Model	Dimensions N in	D mm	F mm	L mm	M mm	t mm	Ordering No.
LMD/LTD61 H100, H170	1/2	34	25	101	127	12	4210 3864 80
LMD/LTD61 H230	3/4	41	25	117	148	12	4210 3789 80
LMD/LTD61 H350, H500	3/4	50	40	160	201	15	4210 3781 81
LMD/LTD61 H700, H900	1	67	50	226	278	15	4210 3788 80



Installation Proposals

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For small nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
For small nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
For nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
For nutrunners with 1/2" BSP air inlet					
MIDI Optimizer F/R EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

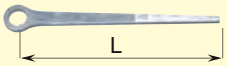
Accessories Included

For all models

Torque adjustment key

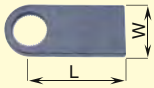
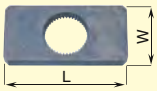
Optional Accessories

Reaction bar



	Dimensions mm	LTD28	LTD38	LTD38 N55/R47 LTD48 LMD/LTD61 -13, -19	LMD/LTD61 -20	LMD/LTD61 -25
	L					
Bar blank (steel)	250	4210 1798 00	4210 2134 00			
	200			4210 2219 02		
	500				4210 2183 80	4210 2726 80
Bar blank (aluminum)	400			4210 2219 01		

Mounting plate

		Dimensions mm	LTD28	LTD38	LTD38 N55/R47 LTD48 LMD/LTD61 -13,-19	LMD/LTD61 -20	LMD/LTD61 -25
Side mount		**L x W**					
		90 x 40	4210 1798 01	4210 2134 01			
		120 x 70				4210 2809 80	4210 2808 80
Center mount		**L x W**					
		70 x 40	4210 1798 02	4210 2134 02			
		100 x 50			4210 2219 03		
		125 x 65				4210 2183 01	4210 2726 01
Flange mount		D 55			4210 2219 10		

TwinSpin kit. Includes: 2 support handles, 2 mounting plates (with corresponding splines), 2 handle attachments, 1 suspension wire, 1 reaction arm, 2 beams, 1 assembly tool, 1 mounting plate for reaction bar, 2 posts, 2 brackets.

TwinSpin kit	Max CC-distance[a]	Min CC-distance[a]	Ordering No.
LTD28 RE/RR	383	53	4210 4159 80
LTD38 N30/N38/N44/R27/R32/R38-RE/RR	376	60	4210 4160 80
LTD38 N55/R47-RE/RR	364	72	4210 4161 80
LTD48 RE/RR	364	72	4210 4161 80
LMD/LTD61 H100, H170, H230	364	72	4210 4161 82
LMD/LTD61 H350, H500	362	87	4210 4161 81

[a] CC-distance = distance between center of spindles.

Valve kits. Includes: main valve, throttle handle valve/valves, bracket, hose nipples and hose clamps.

Intended for tool type	Valve type	Ordering No.
LTD28/38 RE	3-gate for non reversible	4210 4162 80
LTD28 RR	5-gate for reversible	4210 4163 80
LTD48 RE	3-gate for non reversible	4210 4166 80
LTD38/48 RR	5-gate for reversible	4210 4167 80
LMD/LTD61 H100, H170, H230	3-gate for non reversible	4210 4166 80

Exhaust manifolds. Includes: Block, silencer with gasket and nipples.

Intended for tool type	Ordering No.
LTD28 RR	4210 4168 80
LTD38 RR	4210 4168 81
LTD48 RR	4210 4168 81

An optimum combination of torque, speed and weight

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

Fast and accurate
In LTP/LMP61 tools the twin motor concept provides extremely fast rundown with good torque accuracy, even on soft joints.

Operator friendly
Our pistol grip nutrunners are comfortable to operate. The reaction bar eliminates reaction forces and the exhaust through the handle arrangement keeps noise levels low.

Single-handed operation combined with the low weight and perfectly balanced pistol grip design make LMP24/61 and LTP61 nutrunners safe and comfortable to use.

Reversible for maximum flexibility
Being able to loosen fasteners without changing tools saves time and effort and raises productivity.

The twin motor in the 61 series gives faster production and increased accuracy with a minimum of air consumption. Torque level on LMP models depends on the pressure of the air fed to the tool, higher pressure creates higher torque.

- High torque accuracy.
- Swiveling function makes tool positioning easy.
- Fast rundown motor saves time.
- Extremely good torque output to weight ratio compared to single motor pistol grip nutrunners.
- Available as both reversible and non-reversible models.

Model	Bolt size mm	Square drive in	Max torque at 6.3 bar Nm	Max torque at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight[a] kg	Weight[a] lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
Non-reversible																
LMP24 H011-10	M6	3/8	13	10	6	4	1550	1.0	2.2	210	18	11	23	1/4	1	8431 0245 56
LMP24 H005-10	M8	3/8	30	22	14	10	500	1.0	2.2	210	18	11	23	1/4	1	8431 0245 49
LMP24 H003-13	M8	1/2	40	30	14	10	330	1.2	2.6	210	18	11	23	1/4	1	8431 0245 64
LMP24 H002-13	M10	1/2	58	43	27	20	240	1.3	2.9	230	21	11	23	1/4	2	8431 0245 31
LMP61 H100-13	M12	1/2	100	75	60	45	2200	3.0	6.6	223	29	20	42	3/8	3	8431 0803 05
LMP61 H170-13	M14	1/2	170	125	100	75	1400	3.0	6.6	223	29	20	42	3/8	3	8431 0803 12
LMP61 H230-19	M16	3/4	230	170	130	95	1000	3.0	6.6	223	29	20	42	3/8	3	8431 0803 19
LMP61 H350-20	M18	3/4	350	260	200	145	650	3.9	8.6	260	31	20	42	3/8	4	8431 0803 26
LMP61 H500-20	M20	3/4	500	370	300	220	450	3.9	8.6	260	31	20	42	3/8	4	8431 0803 33
LMP61 H700-25	M22	1	700	520	400	295	350	4.5	9.9	305	34	20	42	3/8	5	8431 0803 40
LMP61 H900-25	M24	1	900	665	500	365	260	4.5	9.9	282	34	20	42	3/8	5	8431 0803 47
LMP61 H1500-25	M30	1	1600	1180	900	660	140	6.8	14.9	323	42	20	42	3/8	9	8431 0803 54
LMP61 H1900-38	M30	1 1/2	2000	1475	1100	810	120	14.1	31	380	68	20	42	3/8	8	8431 0803 61
LMP61 H2800-38	M36	1 1/2	3000	2210	1600	1180	80	14.1	31	380	68	20	42	3/8	8	8431 0803 68
LMP61 H3800-38	M42	1 1/2	4000	2950	2200	1620	60	14.1	31	380	68	20	42	3/8	8	8431 0803 75
Reversible																
LMP24 HR011-10	M6	3/8	10	7	5	4	860	1.0	2.2	210	18	11	23	1/4	1	8431 0245 85
LMP24 HR005-10	M8	3/8	22	16	10	7	380	1.0	2.2	210	18	11	23	1/4	1	8431 0245 77
LMP24 HR003-13	M8	1/2	30	22	14	10	250	1.2	2.6	210	18	11	23	1/4	1	8431 0245 91
LMP24 HR002-13	M10	1/2	40	33	20	15	180	1.3	2.9	230	21	11	23	1/4	2	8431 0245 70
LMP61 HR100-13	M12	1/2	100	75	60	45	2200	3.0	6.6	235	30	20	42	3/8	3	8431 0804 04
LMP61 HR170-13	M14	1/2	170	125	100	75	1400	3.0	6.6	238	30	20	42	3/8	3	8431 0804 11
LMP61 HR230-19	M16	3/4	230	170	130	95	1000	3.0	6.6	275	34	20	42	3/8	3	8431 0804 18
LMP61 HR350-20	M18	3/4	350	260	200	145	650	3.9	8.6	275	34	20	42	3/8	4	8431 0804 25
LMP61 HR500-20	M20	3/4	500	370	300	220	450	3.9	8.6	320	35	21	42	3/8	4	8431 0804 32
LMP61 HR700-25	M22	1	700	520	400	295	350	4.5	9.9	305	34	20	42	3/8	5	8431 0804 39
LMP61 HR900-25	M24	1	900	665	500	365	260	4.5	9.9	305	34	20	42	3/8	5	8431 0804 46
LMP61 HR1500-25	M30	1	1600	1180	900	660	140	6.8	14.9	345	42	20	42	3/8	9	8431 0804 53
LMP61 HR1900-38	M30	1 1/2	2000	1475	1100	810	120	14.1	31	380	68	20	42	3/8	8	8431 0804 60
LMP61 HR2800-38	M36	1 1/2	3000	2210	1600	1180	80	14.1	31	380	68	20	42	3/8	8	8431 0804 67
LMP61 HR3800-38	M42	1 1/2	4000	2950	2200	1620	60	14.1	31	380	68	20	42	3/8	8	8431 0804 74

[a] Weight excluding reaction bar.
Recommended hose size 13 mm for hose length up to 5 m.

- LTP61 models are equipped with twin motors and a shut-off valve to ensure that the tool shuts off when the preset torque level is reached.
- Rundown is twice as fast as the LTP51.
- High torque accuracy, non depending on air pressure feeded.
- Extremely high torque output to weight ratio.
- A reversible tool with fixed positions for both forward and reverse.

LTP61 H900-25

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar Nm	Torque range at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight[a] kg	Weight[a] lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
Non reversible																
LTP61 H100-13	M12	1/2	55 - 100	40 - 75	45	35	1800	3.0	6.6	223	29	20	42	3/8	3	8431 0800 07
LTP61 H170-13	M14	1/2	95 - 170	70 - 125	70	50	1100	3.0	6.6	223	29	20	42	3/8	3	8431 0800 14
LTP61 H230-19	M16	3/4	125 - 230	90 - 170	85	60	820	3.0	6.6	223	29	20	42	3/8	3	8431 0800 21
LTP61 H350-20	M18	3/4	190 - 350	140 - 255	145	105	520	3.9	8.6	260	31	20	42	3/8	4	8431 0800 28
LTP61 H500-20	M20	3/4	275 - 500	200 - 370	220	160	360	3.9	8.6	260	31	20	42	3/8	4	8431 0800 35
LTP61 H700-25	M22	1	360 - 650	265 - 480	280	207	280	4.5	9.9	305	34	20	42	3/8	5	8431 0800 42
LTP61 H900-25	M24	1	480 - 870	350 - 640	300	220	210	4.5	9.9	282	32	20	42	3/8	5	8431 0800 49
LTP61 H1500-25	M30	1	850 - 1500	625 - 1100	700	516	115	6.8	14.5	323	42	20	42	3/8	9	8431 0800 56
LTP61 H1900-38	M30	1 1/2	1050 - 1900	770 - 1400	800	590	90	14.1	31.0	380	68	20	42	3/8	8	8431 0800 63
LTP61 H2800-38	M36	1 1/2	1550 - 2800	1140 - 2060	1200	885	65	14.1	31.0	380	68	20	42	3/8	8	8431 0800 70
LTP61 H3800-38	M42	1 1/2	2100 - 3800	1540 - 2800	1600	1180	50	14.1	31.0	380	68	20	42	3/8	8	8431 0800 77
Reversible																
LTP61 HR100-13	M12	1/2	55 - 100	40 - 75	45	35	1800	3.0	6.6	235	30	20	42	3/8	3	8431 0801 08
LTP61 HR170-13	M14	1/2	95 - 170	70 - 125	70	50	1100	3.0	6.6	238	30	20	42	3/8	3	8431 0801 15
LTP61 HR230-19	M16	3/4	125 - 230	90 - 170	85	60	820	3.0	6.6	275	34	20	42	3/8	3	8431 0801 22
LTP61 HR350-20	M18	3/4	190 - 350	140 - 255	145	105	520	3.9	8.6	275	34	20	42	3/8	4	8431 0801 29
LTP61 HR500-20	M20	3/4	275 - 500	200 - 370	220	160	360	3.9	8.6	275	34	20	42	3/8	4	8431 0801 36
LTP61 HR700-25	M22	1	360 - 650	265 - 480	280	207	280	4.5	9.9	305	34	20	42	3/8	5	8431 0801 43
LTP61 HR900-25	M24	1	480 - 870	350 - 640	300	220	210	4.5	9.9	305	34	20	42	3/8	5	8431 0801 50
LTP61 HR1500-25	M30	1	850 - 1500	625 - 1100	700	516	115	6.8	14.5	345	42	20	42	3/8	9	8431 0801 57
LTP61 HR1900-38	M30	1 1/2	1050 - 1900	770 - 1400	800	590	90	14.1	31.0	380	68	20	42	3/8	8	8431 0801 64
LTP61 HR2800-38	M36	1 1/2	1550 - 2800	1140 - 2060	1200	885	65	14.1	31.0	380	68	20	42	3/8	8	8431 0801 71
LTP61 HR3800-38	M42	1 1/2	2100 - 3800	1540 - 2800	1600	1180	50	14.1	31.0	380	68	20	42	3/8	8	8431 0801 78

[a] Without reaction bar.
Recommended hose size: 13 mm

Change over torque is around 4% of maximum torque on a given air pressure.

Pistol Grip Nutrunners

For prevailing applications

- LTP61 PH is specially designed to handle prevailing applications, such as locking nuts.
- Special gear gives a higher change-over torque.
- Fast rundown motor handles most of the rundown before the slower but stronger tightening motor is used.

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar Nm	Torque range at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight[a] kg	Weight[a] lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
Non-reversible																
LTP61 PH100-13	M12	1/2	60- 110	45- 80	45	33	700	3.0	6.6	223	34	20	42	3/8	3	8431 0807 04
LTP61 PH170-13	M14	1/2	100- 180	75- 135	70	52	440	3.0	6.6	223	34	20	42	3/8	3	8431 0807 12
LTP61 PH230-19	M16	3/4	130- 240	95- 180	90	66	320	3.0	6.6	223	34	20	42	3/8	3	8431 0807 17
LTP61 PH350-20	M18	3/4	210- 370	155- 275	150	110	200	3.9	8.6	260	34	20	42	3/8	4	8431 0807 24
LTP61 PH500-20	M20	3/4	300- 520	220- 380	200	150	140	3.9	8.6	260	34	20	42	3/8	4	8431 0807 31
LTP61 PH700-25	M22	1	400- 680	295- 500	280	205	100	4.5	9.9	305	34	20	42	3/8	5	8431 0807 38
LTP61 PH900-25	M24	1	500- 900	370- 665	350	260	80	4.5	9.9	282	34	20	42	3/8	5	8431 0807 41
LTP61 PH1500-25	M30	1	900-1600	665-1180	650	480	45	6.8	14.9	323	42	20	42	3/8	9	8431 0807 52
Reversible																
LTP61 PHR700-25	M22	1	400- 680	295- 500	280	205	100	4.5	9.9	305	34	20	42	3/8	5	8431 0807 55
LTP61 PHR900-25	M24	1	500- 900	370- 665	350	260	80	4.5	9.9	305	34	20	42	3/8	5	8431 0807 62
LTP61 PHR1500-25	M30	1	900-1600	665-1180	650	480	45	6.8	14.9	345	42	20	42	3/8	9	8431 0807 68
Reversible with Multi Torque unit																
LTP61 PHR700-25-MT	M22	1	400- 680	295- 500	280	205	100	4.8	10.6	305	34	20	42	3/8	5	8431 0807 77
LTP61 PHR900-25-MT	M24	1	500- 900	370- 665	350	260	80	4.8	10.6	305	34	20	42	3/8	5	8431 0807 81

[a] Without reaction bar.

Recommended hose size 13 mm for hose length up to 5 m and 16 mm hose size for lenght 5-10 m.

Change over torque is around 10% of maximum torque on a given air pressure.

LTP with Multi Torque Selector

- The Multi Torque Selector makes it possible to preset up to four different shut-off levels.
- The Rotary dial mounted on the tool allows the operator to select different torque levels without changing the tool.
- Ideal for situations where:
  - Several different assembly operations take place.
  - Multi-stage tightening operations are required.
  - Several different torque settings are needed.
- Reverse function that has fixed positions for both forward and reverse.

LTP61 HR900-25-MT

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar Nm	Torque range at 6.3 bar ft lb	Min torque at 3 bar Nm	Min torque at 3 bar ft lb	Free speed r/min	Weight[a] kg	Weight[a] lb	Length mm	CS distance mm	Air consumption at free speed l/s	Air consumption at free speed cfm	Air inlet thread in	Spline type	Ordering No.
LTP61 HR100-13-MT	M12	1/2	55 - 100	40 - 75	45	35	1800	3.3	7.3	288	30	20	42	3/8	3	8431 0806 02
LTP61 HR170-13-MT	M14	1/2	95 - 170	70 - 125	70	50	1100	3.3	7.3	288	30	20	42	3/8	3	8431 0806 09
LTP61 HR230-19-MT	M16	3/4	125 - 230	90 - 170	85	60	820	3.3	7.3	288	34	20	42	3/8	3	8431 0806 16
LTP61 HR350-20-MT	M18	3/4	190 - 350	140 - 255	145	105	520	4.2	9.2	325	34	20	42	3/8	4	8431 0806 23
LTP61 HR500-20-MT	M20	3/4	275 - 500	200 - 370	220	160	360	4.2	9.2	325	34	20	42	3/8	4	8431 0806 30
LTP61 HR700-25-MT	M22	1	360 - 650	265 - 480	280	207	280	4.8	10.6	355	34	20	42	3/8	5	8431 0806 33
LTP61 HR900-25-MT	M24	1	480 - 870	350 - 640	300	220	210	4.8	10.6	355	34	20	42	3/8	5	8431 0806 37
LTP61 HR1500-25-MT	M30	1	850 -1500	625 - 1100	700	516	115	7.1	15.6	395	42	20	42	3/8	9	8431 0806 44
LTP61 HR1900-38-MT	M30	1 1/2	1050 -1900	770 - 1400	800	590	90	14.4	31.7	430	68	20	42	3/8	8	8431 0806 51
LTP61 HR2800-38-MT	M36	1 1/2	1550 -2800	1140 - 2060	1200	885	65	14.4	31.7	430	68	20	42	3/8	8	8431 0806 58
LTP61 HR3800-38-MT	M42	1 1/2	2100 -3800	1540 - 2800	1600	1180	50	14.4	31.7	430	68	20	42	3/8	8	8431 0806 65

[a] Without reaction bar.

Recommended hose size: 13 mm.

Change over torque is around 4% of maximum torque on a given air pressure.

Installation Proposals

Model	Max air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For small nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 07
For small nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C10	16 l/s	Cablair 10 mm	ErgoQIC 08	Yes	8202 0850 03
MIDI Optimizer F/RD EQ10-R10	16 l/s	Rubair 10 mm	ErgoQIC 10	Yes	8202 0850 16
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 02
For nutrunners with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ10-C13-1/4	23 l/s	Cablair 13 mm	ErgoQIC 10	Yes	8202 0850 11
For nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 17
For nutrunners with 1/2" BSP air inlet					
MIDI Optimizer F/R EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	No	8202 0850 04
MIDI Optimizer F/RD EQ10-T13	35 l/s	Turbo 13 mm	ErgoQIC 10	Yes	8202 0850 13

Accessories Included

For LMP24

Suspension yoke, reaction bar

For LMP/LTP61

Swivel type reaction bar

Optional Accessories

For LMP24

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

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

Multi torque selector LTP61

Protective cover

Swivelling suspension yoke LMP/LTP61

Model	Ordering No.
Mounting dia Ø 54 mm	
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	

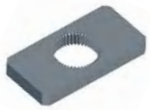
Model	Ordering No.
Mounting dia Ø 60 mm	
HR 100-13	4210 3088 84
HR 170-13	
HR 230-19	
Ø 63.5 mm	
H 1900-38	4210 3088 83
H 2800-38	
H 3800-38	

Model	Ordering No.
Mounting dia Ø 67 mm	
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	
Ø 83.5 mm	
PH/H 1500-25	4210 3088 81
PHR/HR 1500-25	

Reaction bars LMP/LTP 61

Spline dia mm	Square drive size mm/in	CC distance mm	Ordering No.
Steel bar			
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 9	500/85/20		4210 3899 80
Square steel bracket			
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
Triangular steel bracket			
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 7	150/145/20		4220 2137 16
Sliding drive reaction bar			
Spline 3	1/2	70-120	4210 4481 83
Spline 3	3/4	70-120	4210 4481 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
S-Type reaction bar			
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
L-Type aluminum bar			
Spline 3	266x300/29/15		4210 2219 08
Spline 4	144x150/42/15		4210 2183 08
Straight aluminum bar			
Spline 3	L = 400		4210 2219 01
Extended sliding drive reaction bar			
Spline 5	1	68-112	4210 4498 80
Extended sliding tube reaction bar			
Spline 5	1	68-112	4210 4498 82
Bracket stepped			
Spline 1	70/36/13		4210 1798 02
Spline 2	70/41/14		4210 2134 02

Steel bar



Square steel bracket

Triangular steel bracket

Sliding drive reaction bar

S-Type reaction bar

L-Type aluminum bar

Straight aluminum bar

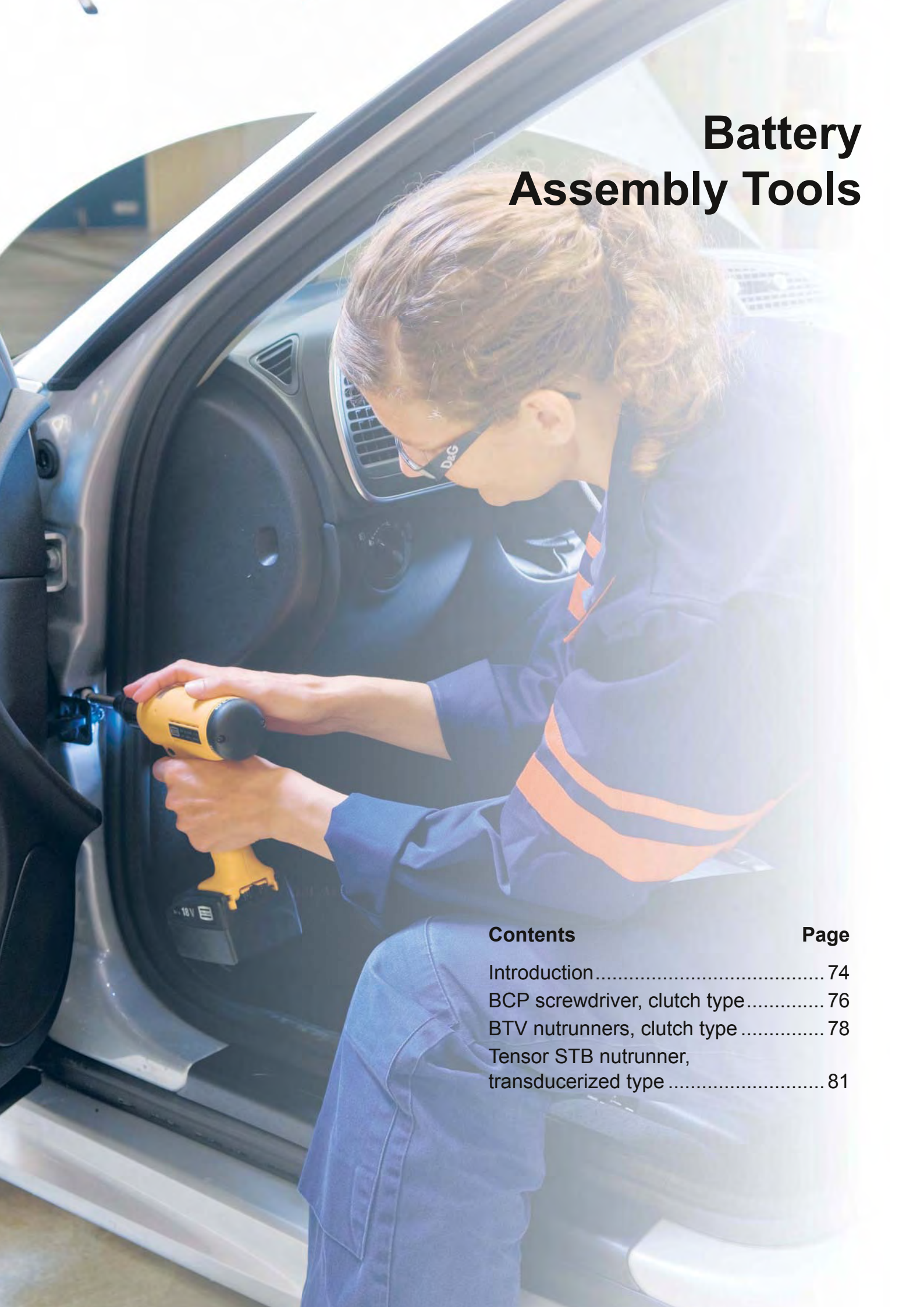
Extended sliding drive reaction bar

Extended sliding tube reaction bar

Bracket stepped

Service Kits

Model	Trigger kit	General service kit
LMP24	4210 1934 91	4081 0105 90
LMP/LTP61	4210 2190 91	4081 0397 90
LMD/LTD61	–	4081 0397 90



Battery Assembly Tools

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True cordless freedom

Atlas Copco's range of industrial battery assembly tools includes both shut-off and transducerized nutrunners and screwdrivers. They allow maximum freedom of movement along the line and inside narrow or closed compartments. Tensor STB tools also offer advanced process control.

The main advantage of battery tools is their superior flexibility due to the absence of cables. This, in turn, improves the efficiency of the operator. Battery assembly tools also contribute to improving safety in the workplace, since there are no air hoses or electric cables to become entangled or jammed. Also, in the automotive industry, for instance, there is no risk of scratches on the car body finish from air hoses or electric cables.

BCP screwdrivers – a pleasure to work with

The BCP screwdriver is ideal for quality critical applications where flexibility is essential. The slim, well-balanced design and ergonomic pistol grip on the BCP screwdriver make it a pleasure to hold. Its compact size and Lithium-Ion batteries put it among the lightest battery screwdrivers on the market. BCP screwdrivers also offer variable speed and plenty of power, with torque levels ranging from 0.8 up to 12 Nm.

All these ergonomic features make the BCP screwdriver the kind of tool you can work with all day long.

BTV nutrunners – the durable and reliable angle tool choice

The BTV nutrunner is the cordless angle tool choice for quality critical applications in cramped spaces. The robust industrial design of the BTV nutrunner means durable and reliable operation with a service life that matches any other power tool. Yet it is lightweight and handy, giving the best operator comfort for tightening operations from 2 to 28 Nm. Torque accuracy has electronic precision thanks to the ACD (Acoustic Clutch Detection) control.

Tensor STB nutrunners – fast, light, transducerized battery tools

Ergonomically designed Tensor STB pistol-grip (up to 12 Nm) and angle nutrunners (up to 100 Nm) are ideal for safety critical applications in cramped areas. No other battery powered tool can match Tensor STB's unique fastening performance and advanced process control.

Atlas Copco Industrial Radio Communication (IRC) enables the Tensor STB to be partnered with a Power Focus controller for accurate torque monitoring and full joint traceability. At a typical workstation, one Tensor STB tool can be used for several applications within the same torque range.

A new member of the STB family is the STB Stand Alone, this tool is a standard STB but you will not need a controller (apart from when you set it up for the first time). Since you do not have a controller the STB will not report any values to the controller.

Powerful, durable and highly operator friendly

For quality critical applications where flexibility is essential, the BCP screwdriver and the BTV nutrunner are the ideal tool choices. Powerful and durable with superior ergonomics and operator feedback they offer higher productivity in assembly operations, independent of the industry.

Freedom – truly flexible assembly

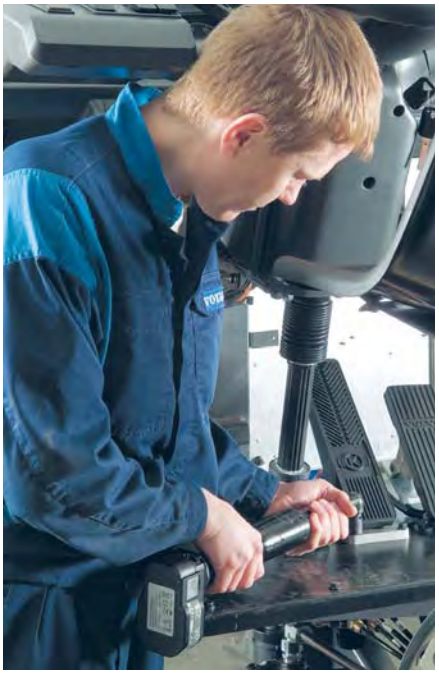
- No product damage from cables or hoses
- No trip hazards from trailing cables
- No cable or hose management
- Speed setting functionality for the BCP
- Reversible battery pack

Ergonomics – a pleasure to work with

- Reduced operator fatigue and work related health problems
- Light, compact and well-balanced design
- Operator feedback

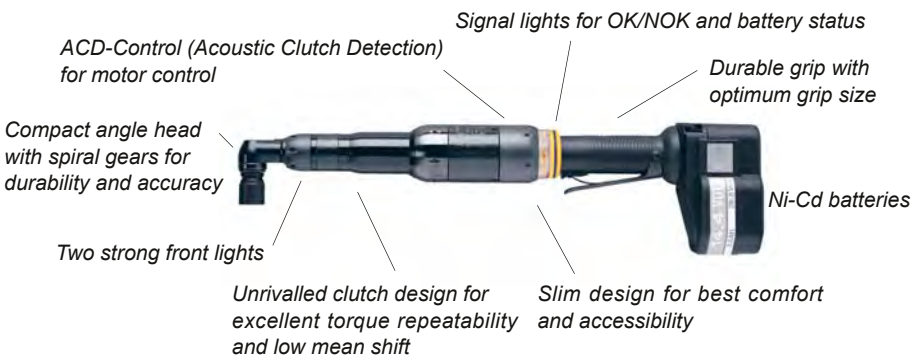
Power – high performance and durability

- Robust and industrial tool design
- Li-Ion battery technology for BCP: high power-to-weight.



BCP Tool key features

BTV Tool key features



Screwdrivers – Clutch Type BCP

BCP screwdrivers offer true cordless freedom and superior ergonomics for the operator, thus contributing to outstanding performance.

- Ergonomic, lightweight pistol-grip design.
- 7 brushless models offering variable speed with a speed setting unit.
- Torque range: 0.8 – 12 Nm.
- Low speed models available.
- Choice of two 18 V Li-Ion batteries: 1.3 Ah Flat Pack or 2.6 Ah Big Pack.

BCP

Model	Square drive in	Torque Nm	Torque ft lb	Speed r/min	Weight (excl. battery) kg	Weight (excl. battery) lb	Length mm	Height mm	Ordering No.
BCP BL2-I06	1/4	0.8-2.5	0.6-1.8	500 - 1550	0.86	1.89	200	188	8431 1273 00
BCP BL6-I06	1/4	2.0-6.0	1.5-4.4	300 - 1000	0.86	1.89	200	188	8431 1273 10
BCP BL8-I06	1/4	3.0-8.0	2.2-5.9	300 - 800	0.86	1.89	200	188	8431 1273 20
BCP BL12-I06	1/4	5.0-12.0	3.7-8.8	250 - 600	0.86	1.89	200	188	8431 1273 30
BCP BL-2L-I06	1/4	0.8-2.5	0.6-1.8	150 - 440	0.86	1.89	200	188	8431 1273 50
BCP BL-6L-I06	1/4	1.5-6.0	1.1-4.4	150 - 440	0.86	1.89	200	188	8431 1273 60
BCP BL-12L-I06	1/4	3.0-12.0	2.2-8.8	150 - 440	0.86	1.89	200	188	8431 1273 40

-L stands for low speed models.
NOTE: The tools are set at maximum speed at delivery.

Optional Accessories

Batteries

Model	Current V	Electric charge Ah	Weight kg	Weight lb	Charge time min	Ordering No.
Li-Ion flat pack	18	1.3	0.37	0.81	35	4211 5426 82
Li-Ion big pack	18	2.6	0.63	1.39	70	4211 5426 83

Battery Flat pack.

Chargers

Model	V / Hz	Input/Output V / A	Weight kg	Weight lb	Ordering No.
EU-contact	230V / 50Hz	18V / 1.8A	0.61	1.34	4211 5428 80
UK-contact	230V / 50Hz	18V / 1.8A	0.61	1.34	4211 5428 81
BR-contact	230V / 60Hz	18V / 1.8A	0.61	1.34	4211 5428 83
US-contact	115V / 60Hz	18V / 1.8A	0.61	1.34	4211 5428 84

Battery Big pack

Cover protections

Model	Ordering No.
Battery cover protection, Flat pack	4211 5601 00
Battery cover protection, Big pack	4211 5602 00
Tool cover protection	4211 5415 00

Battery charger 18 V.

Colour rings

Model	Ordering No.
Red	4211 5461 02
Orange	4211 5461 03
Green	4211 5461 04
Blue	4211 5461 05
White	4211 5461 06
Purple	4211 5461 07
Grey	4211 5461 08

Miscellaneous

Model	Ordering No.
Speed setting unit	4211 5462 80
Support handle	4211 5421 80
Suspension bail	4211 5600 00
Tool holder	4220 4335 80

Battery cover Flat pack

Support handle

Battery cover Big pack

Colour rings

Suspension bail

Speed setting unit

Tool holder

Tool cover

Nutrunners – Clutch Type

BTV

BTV nutrunners are durable and reliable and offer flexible assembly. A lightweight and handy tool for maximum operator comfort.

- Robust yet ergonomic angle tool.
- Torque range 2-28 Nm.
- Choice of four Ni-Cd batteries from 9.6 to 14.4 V.
- Theft protection (PROT) versions available.

BTV28

Model	Screw size mm	Recommended torque range Nm	Recommended torque range in lb	Free speed 9.6 V r/min	Free speed 12 V r/min	Free speed 14.4 V r/min	Weight excl. batttery kg	Weight excl. batttery lb	Tool only Ordering No.	PROT version tool only Ordering No.
BTV7i-6	M3-M5	2 - 7	18 - 62	350	450	–	1.4	3.0	8431 0261 40	8431 0261 52
BTV7i-42	M3-M5	2 - 7	18 - 62	350	450	–	1.4	3.0	8431 0261 44	8431 0261 53
BTV7i-Q	M3-M5	2 - 7	18 - 62	350	450	–	1.4	3.0	8431 0261 49	8431 0261 54
BTV11i-6	M4-M6	4 - 11	36 - 97	300	380	–	1.4	3.0	8431 0261 55	8431 0261 59
BTV11i-42	M4-M6	4 - 11	36 - 97	300	380	–	1.4	3.0	8431 0261 56	8431 0261 60
BTV11i-Q	M4-M6	4 - 11	36 - 97	300	380	–	1.4	3.0	8431 0261 57	8431 0261 61
BTV11i-10	M4-M6	4 - 11	36 - 97	300	380	–	1.4	3.0	8431 0261 58	8431 0261 64
BTV15i-6	M6	8 - 15	70 - 132	–	340	410	1.7	3.7	8431 0261 65	8431 0261 69
BTV15i-42	M6	8 - 15	70 - 132	–	340	410	1.7	3.7	8431 0261 72	8431 0261 76
BTV15i-Q	M6	8 - 15	70 - 132	–	340	410	1.7	3.7	8431 0261 73	8431 0261 77
BTV15i-10	M6	8 - 15	70 - 132	–	340	410	1.7	3.7	8431 0261 68	8431 0261 78
BTV28i-42	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 79	8431 0262 10
BTV28i-10	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 80	8431 0262 11
BTV28i-B10	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 83	8431 0262 12
BTV28i-Q	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 86	–
BTV28i-FS10	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 89	–
BTV28i-FS13	M8	15 - 28	132 - 248	–	210	260	1.8	4.0	8431 0261 92	–

All pistol grip models have 1/4" female hexagon drive for bits with quick change chuck.

Optional Accessories

Batteries

Model	Voltage	Capacity	Weight gram	Ordering No.
BTV 7/11	9.6 V	2.0 Ah	570	4210 3680 02
BTV 15/28	14.4 V	2.0 Ah	800	4210 3680 06
All tools	12 V Flat pack	1.4 Ah	500	4210 3680 03
All tools	12 V	2.0 Ah	730	4210 3680 05

12 V Flat pack / 1.4 Ah

12 V / 2.0 Ah

Pulse charger

Model	Voltage	Capacity	Ordering No.
15/23 min	230/240 V	(1.4/2.0 Ah)	4210 3676 10
25/36 min	110/120 V	(1.4/2.0 Ah)	4210 3676 20
1/1.3 hour	230/240 V	(1.4/2.0 Ah)	4210 3676 00

14.4 V / 2.0 Ah

9.6 V / 2.0 Ah

Mounting bracket for multiple charger

Model	Voltage	Ordering No.
Euro-contact	230/240 V	4210 3677 00
US-contact	110/120 V	4210 3677 01

NOTE: Chargers are bought separately.

Pulse charger

Decoder kit

Model	Voltage	Ordering No.
Decoder kit	230/240 V	4210 3679 90
Decoder kit	110/120 V	4210 3679 91

Suspension yoke

Model	Ordering No.
BTV (swivelling)	4211 5080 80

Decoder

Cordless freedom with full process control

Tensor STB battery powered nutrunners offer the same benefits in terms of process control as Tensor ST nutrunners, yet with the freedom of cordless tools. The tools have the capability to communicate with a Power Focus controller, via IRC, for full process control.

Flexibility – no more cables

- No more cables and cable management
- No more damaged cables
- No product damage from cables
- No trip hazards from trailing cables

Productivity – save time

- Increased operator efficiency
- Easy to set up and replace
- Eliminate need for multiple operations
- Up to 100% faster than competing products

Ergonomics

- Reduced operator fatigue and work related health problems
- Unhindered access
- Low weight – up to 20 % lighter than competing products
- Compact size

STB Tool key features