

PNEUMATIC ASSEMBLY TOOLS

Contents	Page
Introduction	10
Screwdrivers	12
Pistol grip models	14
Straight models.....	18
Angle models.....	20
Impact wrenches	23
Pistol grip models	25
Straight models.....	26
Hydraulic impulse nutrunners	28
ErgoPulse	
Pistol grip models	30
Straight models.....	33
Controlled impulse nutrunners	37
Pulsor C.....	38
Nutrunners	40
Angle models.....	41
Straight models.....	57
Pistol grip models	62

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 CO₂ 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)

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 control (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.

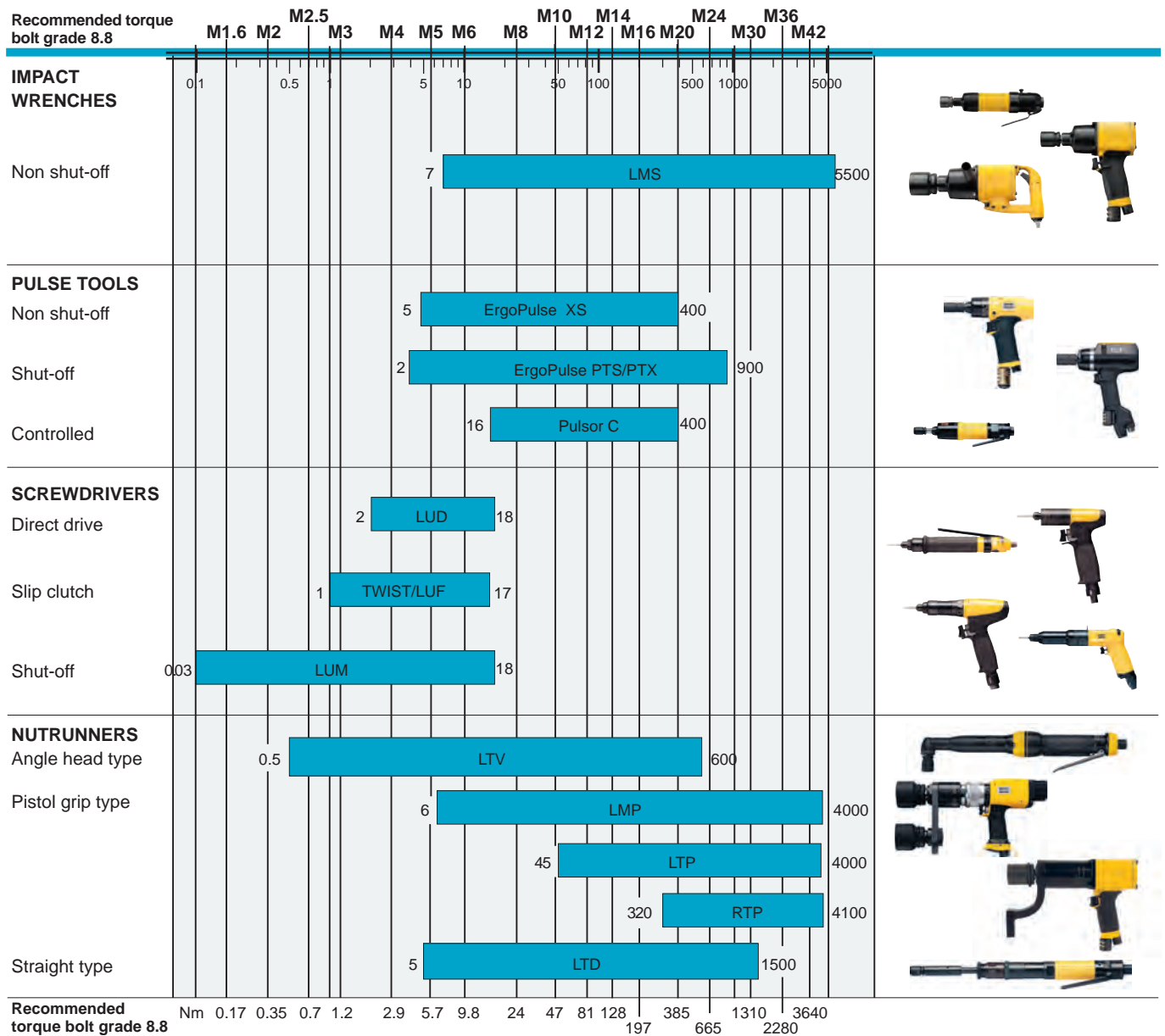
RTP NUTRUNNERS

Whatever your industry, if your operations include loosening or tightening heavy duty bolts, Atlas Copco's slim, lightweight RTP pneumatic nutrunner can help increase your productivity.

Among the smallest on the market, the RTP's slim gearpack gives you effortless access to bolts in cramped spaces. Tightening accuracy and repeatability are high. Noise and vibration levels are lower than in traditional impact wrenches.



Selection Guide



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-smearred 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

Thread	Bolt grade							Thread	Bolt grade					
	3.6	4.6	4.8	5.8	8.8	10.9	12.9		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 shut-off clutch give minimum reaction impulse, thus reducing operator strain. All Atlas Copco screwdrivers can be used as 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 is an angle tool.

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.

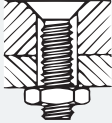
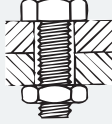
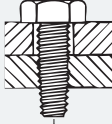


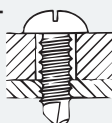

SLIP CLUTCH TYPE SCREWDRIVERS

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										
	Ø Screw size	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6		
Machine screw 4.8 Property class 4.8 normal for cross recessed and slotted screws 	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		LTV19
				LTV009					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% 	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	5.750.4	9.8/86.7	
	Recommended tool	LUM02		LUM10			LUM12		LUM22		LTV19
				LTV009					LUM32		
Thread rolling screw-M Property class between 8.8 and 10.9 due to case hardening. Tapite® and Swageform are examples 	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		LTV19
				LTV009					LUM32		
Thread forming screw-ST 	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 	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		LTV19
				LTV009					LUM32		
Self drilling screw-ST 	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		TWIST12/22		LUD12/22			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.
- The LUM32 model has the highest force to weight ratio amongst the pneumatic screwdrivers. It is also a tool with low reaction force and fast shut-off because of the position of the clutch.

RE reporting models are available, designated with suffix -RE.



Model	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
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 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-RE	3.5-12.5	31-110.6	500	1	2.2	210	18	7.5	16	10	1/4	8431 0278 67
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
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...

Model	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
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 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 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 HRX5-350	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 HRX8-110	1.5-8	13.3-70.8	110	0.7	1.5	196	16	6	13	6	1/8	8431 0280 27
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
LUM22 HRX2	1.2-2	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	9.7-23	3200	0.9	2	187	18	9	19	8	1/4	8431 0278 85
LUM22 HRX3	0.6-3	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 HRX4	0.6-4	5.3-35.4	1650	0.9	2	187	18	9	19	8	1/4	8431 0269 20
LUM22 HRX6	1.5-6.5	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	13.3-57.5	1100	0.95	2.1	197	18	9	19	8	1/4	8431 0278 71
LUM22 HRX10	3.5-10	31-88.5	800	1.1	2.4	219	18	9	19	10	1/4	8431 0269 23
LUM22 HRX10-RE	3.5-10	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	31-110.6	220	1.15	2.5	229	18	9	19	10	1/4	8431 0282 20
LUM22 HRX12	3.5-12.5	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	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	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	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	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	31-110.6	370	1.1	2.4	211	18	9	19	10	1/4	8431 0278 75
LUM22 HRX26 ^a	3-26	26.6-230	220	1.2	2.6	233	18	9	19	10	1/4	8431 0269 39
Multiple air inlet 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

^a 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.

Pistol Grip Models

Direct Drive

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
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
Reversible drill, taper and screwdriver												
COMBI22 HR2	2.0-2.7	18-24	3600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 89
COMBI22 HR5	2.7-5.7	24-50	1600	0.9	2.0	205	20	7	15	8	1/4	8431 0255 80
COMBI22 HR10	5.0-10.0	44-89	800	1.1	2.4	240	20	7	15	8	1/4	8431 0255 62
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.
 Are equipped with a 1/4" female hexagon drive for bits.
 Combi-tools are delivered with drill chuck and 1/4" female hex drive for bits.
 Torque range is reached by adjusting the air pressure between minimum 3 bar and maximum 6 bar.

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
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 and air-on-top models with trigger start and push start												
TWIST12 HRF4	0.5-4.4	4.4-38.9	850	0.7	1.5	200	15	6.5	14	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.

Are equipped with a 1/4" female hexagon drive for bits.

Have quick change chuck.

All data at an air pressure of 6.3 bar.

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
With push start and button reverse												
LUM02 PR04-1200	0.03-0.32	0.27-2.9	1200	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 04
LUM02 PR04-1800	0.03-0.32	0.27-2.9	1800	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 02
LUM02 PR07-350	0.025-0.6	0.23-5.4	350	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 08
LUM02 PR07-500	0.025-0.6	0.23-5.4	500	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 06
LUM02 PR04-950-Q	0.03-0.32	0.27-2.9	950	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 15
LUM02 PR07-350-Q	0.025-0.6	0.23-5.4	350	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 18
LUM02 PR07-500-Q	0.025-0.6	0.23-5.4	500	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 16
LUM02 PR07-600-Q	0.025-0.6	0.23-5.4	500	0.17	0.35	172	10	2.2	4.7	6 ^a	M5	8431 0146 03
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 PR12-350	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

Continued...

Model	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
With lever start and reverse ring												
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

* All LUM02 have an air inlet thread M5. Nipple and coupling are included accessories.

All LUM10/12/22 SR/PR: ESD approved

All data at an air pressure of 6.3 bar.

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb			l/s	cfm			
With lever start and reverse ring												
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 and reverse button												
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
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 PR7	1.5-7.5	13.3-66.4	1100	0.75	1.7	211	15	7	15	8	1/4	8431 0278 90

All data at an air pressure of 6.3 bar.

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

Model	Torque range soft joint		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
	Nm	in lb		kg	lb				l/s	cfm			
1/4" female hexagon drive for bits													
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 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 R07-42-SH	1.1-7	9.7-61.9	500	0.7	1.5	243	25	9	6	13	6	1/8	8431 0279 29
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 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 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
LTV19 R15-42	6-15	54-133	360	1.1	2.4	309	36	11	7	15	8	1/4	8431 0279 35
1/4" square drive for sockets													
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 R07-6	1.1-7	9.7-61.9	500	0.7	1.5	266	25	9	6	13	6	1/8	8431 0278 11
LTV009 R07-6-SH	1.1-7	9.7-61.9	500	0.7	1.5	243	25	9	6	13	6	1/8	8431 0279 28
LTV009 R07-6-230	0.3-7	2.6-61.9	230	0.8	1.8	266	25	9	6	13	6	1/8	8431 0279 18
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 R11-6-200	1.3-11	11.5-97.3	200	0.7	1.5	266	28.5	11	6	13	6	1/8	8431 0278 24
LTV009 R11-6-200-B	1.3-11	11.5-97.3	200	0.8	1.8	266	27.6	11	6	13	6	1/8	8431 0278 31
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 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
LTV19 R15-6	6-15	54-133	360	1.1	2.4	309	31	11	7	15	8	1/4	8431 0279 34
3/8" square drive for sockets													
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 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 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
LTV19 R15-10	6-15	54-133	360	1.1	2.4	309	31	11	7	15	8	1/4	8431 0279 36
1/4" quick change chuck													
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 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-Q-SH	1.1-7	9.7-61.9	500	0.7	1.5	243	25	9	6	13	6	1/8	8431 0279 30
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 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 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 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
LTV19 R15-Q	6-15	54-133	360	1.1	2.4	309	45	11	7	15	8	1/4	8431 0279 37
Flush socket													
LTV009 R12-FS-10	1.5-8	13.3-70.8	340	1.1	2.4	261	23.5	13.5	6	13	6	1/8	8431 0632 11

All models: - Are reversible.
 - All data at an air pressure of 6.3 bar.
 - Are ESD approved

Accessories Included

EXHAUST HOSE

Included with straight and air-on-top models

CLUTCH ADJUSTMENT KEY

Included with all shut-off and slip clutch tools



Clutch adjustment key

Optional Accessories



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	–

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, 8	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 HRX	4210 3151 00
LUM12 HRX	4210 4642 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 R03/08/09/11, 90° hex drive magnetic bit holder ^a	4210 3857 91
Vacuum screw pick-up for LUM02	4210 4706 80

^a Substitute for 4210 3857 XX angle heads.



Suspension yoke



Quick change chuck kit



Angle-head for LTV009



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

Productivity Kits

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	Cabclair 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	6 l/s	Cabclair 6 mm	ErgoQIC 08	No	8202 0850 19
For screwdrivers with 1/4" BSP air inlet					
MIDI Optimizer F/RD EQ08-C08	9 l/s	Cabclair 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	9 l/s	Cabclair 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.

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 7-5500 Nm.

LMS 8-SERIES

The new LMS 8-series impact wrenches delivers true raw power and enables extremely fast tightening and loosening.







The innovative and unique Grease Retaining System ensures maximum tool performance with long service intervals.

MINIMUM WEAR AND LOW VIBRATIONS

Each part of the durable LMS8-Series impact mechanism is produced with a very precise accuracy. This allows the maximum amount of energy to be generated in each impact. It also minimizes wear, vibration and strain on the operator.



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	LMS08	LMS18	LMS18	LMS28	LMS38	LMS38	LMS48	LMS58	LMS58	LMS61	LMS61	LMS68	LMS88	LMS88	LMS88	LMS88
	LMS08	LMS18	LMS28	LMS38	LMS38	LMS48	LMS58	LMS58	LMS58	LMS68	LMS68	LMS68	LMS88	LMS88	LMS88	LMS88
	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	LMS08	LMS18	LMS28	LMS28	LMS38	LMS38	LMS48	LMS58	LMS61	LMS61	LMS68	LMS88	LMS88	LMS88	LMS88	
	LMS18	LMS18	LMS28	LMS38	LMS48	LMS48	LMS58	LMS68	LMS68	LMS68	LMS88	LMS88	LMS88	LMS88	LMS88	
	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	LMS08	LMS18	LMS28	LMS28	LMS38	LMS48	LMS58	LMS61	LMS61	LMS68	LMS88	LMS88	LMS88	LMS88		
	LMS18	LMS18	LMS28	LMS38	LMS48	LMS58	LMS68	LMS68	LMS68	LMS88	LMS88	LMS88	LMS88	LMS88		

■ = **HEAVY DUTY**

■ = **EXTRA HEAVY DUTY**

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

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.
- Long service intervals.
- Durable high performance with Grease Retaining System.



LMS18 HR13



LMS58 HR25

Model	Bolt size mm	Square drive in	Torque range		Max torque		Impacts per min	Free speed r/min	Weight		Length excl. anvil mm	CS dist- ance mm	Air con- sumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb			kg	lb			l/s	cfm			
LMS08 HR10	6-8	3/8 ^c	7-45	5-33	65	48	1650	14000	0.9	2.0	185	21	2.5	5	6.3	1/4	8434 1080 00
LMS08 HR42	6-8	1/4 ^a	7-35	5-26	60	44	1650	14000	0.9	2.0	186	21	2.5	5	6.3	1/4	8434 1080 05
LMS18 HR13	10	1/2 ^c	10-110	7-81	150	110	1500	8100	1.45	3.2	144	26	8.5	18	10	1/4	8434 1180 00
LMS18 HR10	10	3/8 ^c	10-90	7-66	120	88	1650	8100	1.45	3.2	148	26	6.5	14	10	1/4	8434 1180 01
LMS18 HR13/F	10	1/2 ^e	10-110	7-81	150	110	1500	8100	1.45	3.2	144	26	8.5	18	10	1/4	8434 1180 02
LMS18 HR10/F	10	3/8 ^e	10-90	7-66	120	88	1650	8100	1.45	3.2	148	26	6.5	14	10	1/4	8434 1180 03
LMS28 HR13	12	1/2 ^c	30-210	22-155	390	287	1500	9500	1.85	4.1	146	29	8.5	18	10	3/8	8434 1280 00
LMS28 HR13/F	12	1/2 ^e	30-210	22-155	390	287	1500	9500	1.85	4.1	146	29	8.5	18	10	3/8	8434 1280 01
LMS38 HR13	14-16	1/2 ^c	40-375	29-276	850	627	1350	8000	2.6	5.7	167	29	10	21	10	3/8	8434 1380 00
LMS38 HR13/F	14-16	1/2 ^e	40-375	29-276	850	627	1350	8000	2.6	5.7	167	29	10	21	10	3/8	8434 1380 01
LMS48 HR20	16-18	3/4 ^d	100-550	74-405	1375	1014	1100	6500	3.3	7.3	173	38	12	25.2	12.5	3/8	8434 1480 00
LMS58 HR25	20-22	1 ^d	300-800	221-590	1900	1401	900	5500	4.8	10.6	210	42	14.5	30.5	12.5	3/8	8434 1580 00
LMS58 HR20	18-20	3/4 ^d	300-800	221-590	1900	1401	900	5500	4.8	10.6	210	42	14.5	30.5	12.5	3/8	8434 1580 01
LMS68 HR25	22-30	1 ^d	600-1800	442-1400	4450	3282	780	5000	9.8	21.5	252	55	28	58.9	16	1/2	8434 1680 01
LMS68 HR S5	22-30	1 5/8 ^b	600-1800	442-1400	4450	3282	780	5000	9.8	21.5	252	55	28	58.9	16	1/2	8434 1680 03

^a Female hex. quick change chuck.

^b Spline drive No. 5.

^c Pin retainer

^d Through hole

^e Friction ring

LMS MODELS

- Recommended operating range 7-5500 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.
- Long service intervals.
- Durable high performance with grease retaining system.



LMS68 GIR25



LMS08 SR10



LMS88 GIR38

Model	Bolt size mm	Square drive in	Torque range		Max torque		Impacts per min	Free speed r/min	Weight		Length excl. anvil mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb			kg	lb			l/s	cfm			
LMS08 SR42	6-8	1/4 ^a	7-35	5-26	60	44	1650	12500	0.85	1.9	185	20	5.5	9.1	6.3	1/4	8434 1081 06
LMS08 SR10	6-8	3/8 ^c	7-45	5-33	65	48	1650	12500	0.85	1.9	184	20	5.5	9.1	6.3	1/4	8434 1081 11
LMS68 GIR25	22-30	1 ^d	600-1800	442-1400	4450	3282	780	5000	9.6	21.1	339	55	28	58.9	16	1/2	8434 1680 00
LMS68 GOR25	22-30	1 ^d	600-1800	442-1400	4450	3282	780	5000	9.6	21.1	339	55	28	58.9	16	1/2	8434 1680 02
LMS68 GIR S5	22-30	1 5/8 ^b	600-1800	442-1400	4450	3282	780	5000	9.6	21.1	339	55	28	58.9	16	1/2	8434 1680 05
LMS68 GOR S5	22-30	1 5/8 ^b	600-1800	442-1400	4450	3282	780	5000	9.6	21.1	339	55	28	58.9	16	1/2	8434 1680 10
LMS88 GIR38	30-42	1 1/2 ^d	1000-5500	737-4054	10000	7370	540	3800	15.0	33.0	381	63.5	33	69.4	16	1/2	8434 1880 00
LMS88 GOR38	30-42	1 1/2 ^d	1000-5500	737-4054	10000	7370	540	3800	15.0	33.0	381	63.5	33	69.4	16	1/2	8434 1880 01
LMS88 GIR S5	30-42	1 5/8 ^b	1000-5500	737-4054	10000	7370	540	3800	15.0	33.0	381	63.5	33	69.4	16	1/2	8434 1880 05
LMS88 GOR S5	30-42	1 5/8 ^b	1000-5500	737-4054	10000	7370	540	3800	15.0	33.0	381	63.5	33	69.4	16	1/2	8434 1880 10

^a Female hex. quick change chuck.

^b Spline drive No. 5.

^c Pin retainer

^d Through hole

GOR = Outside trigger.

GIR = Inside trigger.

Optional Accessories

MULTIFLEX SWIVEL

Model	Ordering No.
LMS08 HR10/SR10, LMS18 HR10/13	8202 1350 20
LMS18 HR10/13, LMS28/38 HR13, LMS48/58 HR20, LMS58 HR25	8202 1350 22
LMS68 HR25, LMS68/88 GIR, LMS68/88 GOR	8202 1350 24



MultiFlex Swivel

WHIP HOSE

Model	Ordering No.
LMS08 HR10/SR10, LMS18 HR10/13	8202 1180 42
LMS28/38 HR13, LMS48/58 HR20, LMS58 HR25	8202 1180 44
LMS68 HR25, LMS68/88 GIR, LMS68/88 GOR	8202 1180 28



Whip hose

SUSPENSION YOKE

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

Suspension yoke included LMS08-58

Productivity Kits

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



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:

- Gaskets
- Circlips
- O-rings
- Pins etc.

Model	Service kit
LMS08	4081 0465 90
LMS18	4081 0466 90
LMS28	4081 0467 90
LMS38	4081 0468 90
LMS48	4081 0461 90
LMS58	4081 0445 90
LMS68	4081 0442 90
LMS88	4081 0443 90

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 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 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.

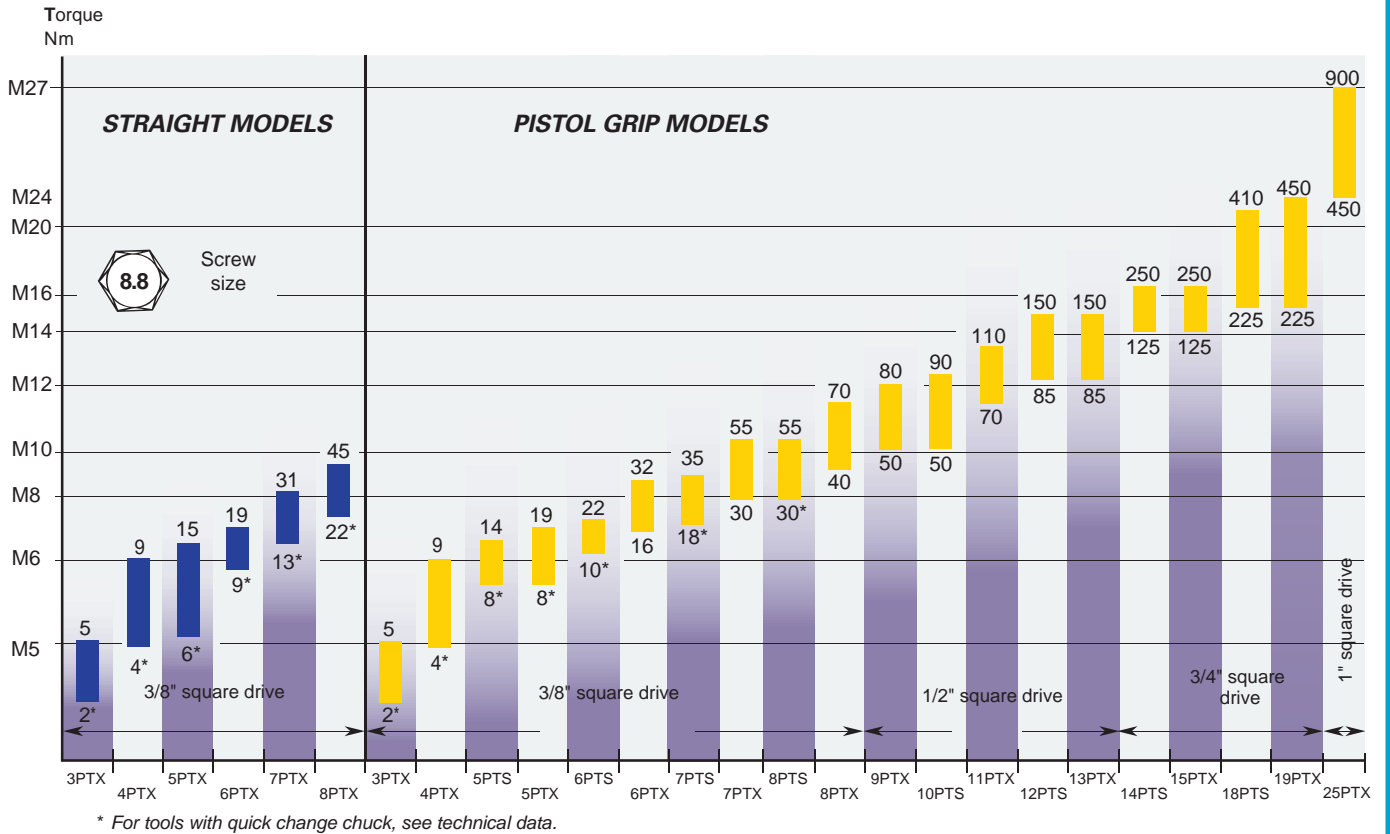
ERGOPULSE 6PS

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.



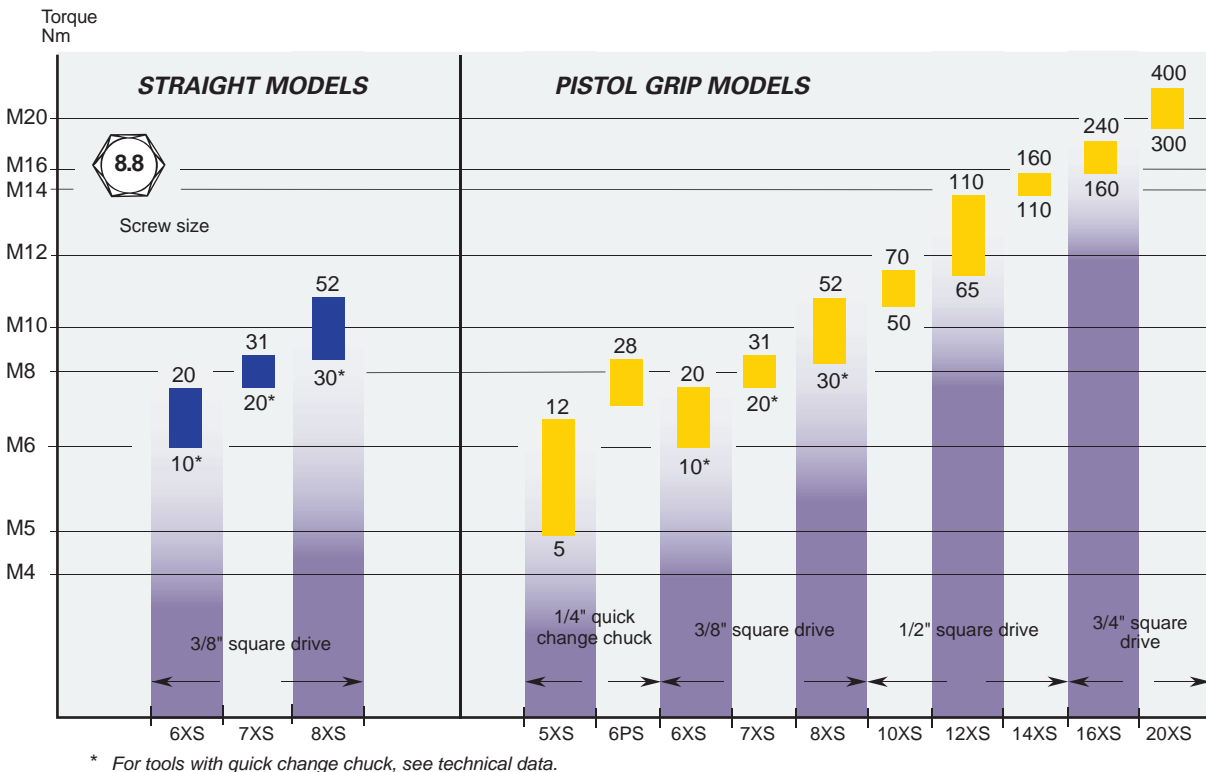
EP PTS/PTX SHUT-OFF MODELS

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.



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.



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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
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 HR10-RE	M5	3/8	4-9	3-7	3400 ^c	0.9	1.9	164	22	4	9	8	1/4	8431 0375 54
EP4PTX9 HR42-RE	M5	1/4 ^b	4-9	3-7	3400 ^c	0.9	1.9	164	22	4	9	8	1/4	8431 0375 50
EP5PTX17 HR42-RE	M6	1/4 ^b	7-17	5-13	7000 ^c	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 ^c	0.9	1.9	164	22	7	15	8	1/4	8431 0375 04
EP6PTX28 HR42-RE	M6-M8	1/4 ^b	15-28	11-18	8500 ^c	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 ^c	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 ^c	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 ^c	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 ^c	1.5	3.3	188	29	11	23	10	1/4	8431 0375 40
EP11PTX110 HR13-RE	M12	1/2	70-110	51-81	5100 ^c	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 ^c	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 ^c	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 ^c	4.2	9.2	221	44	23	49	13	3/8	8431 0376 80
Trim-RE Low pressure models														
EP5PTX HR10-RE-L	M5	3/8	7-15	5-11	5900 ^d	0.9	2.0	164	22	4	9	8	1/4	8431 0379 04
EP5PTX HR42-RE-L	M4-M5	1/4 ^b	6-13	4-10	5900 ^d	0.8	1.8	154	21	4	9	8	1/4	8431 0379 00
EP6PTX HR10-RE-L	M6	3/8	13-25	9-18	7900 ^d	0.9	2.0	164	22	7	15	8	1/4	8431 0379 20
EP6PTX HR42-RE-L	M5	1/4 ^b	11-22	8-16	7900 ^d	0.9	2.0	164	22	4	9	8	1/4	8431 0379 10
EP7PTX HR10-RE-L	M6	3/8	23-35	17-26	6200 ^d	0.9	2.0	164	22	7	15	10	1/4	8431 0379 30
EP8PTX HR10-RE-L	M6-M8	3/8	33-45	24-33	6300 ^d	0.9	2.0	164	22	7	15	10	1/4	8431 0379 60
AutoTrim														
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 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
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
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	11-18	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
EP11PTX110 HR13-AT	M12	1/2	70-110	51-81	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 HR10-AT-L	M5	3/8	7-15	5-11	5900 ^d	0.9	2.0	164	22	4	9	8	1/4	8431 0379 06
EP5PTX HR42-AT-L	M4-M5	1/4 ^b	6-13	4-10	5900 ^d	0.8	1.8	154	21	4	9	8	1/4	8431 0379 02
EP6PTX HR10-AT-L	M6	3/8	13-25	9-18	7900 ^d	0.9	2.0	164	22	7	15	8	1/4	8431 0379 22
EP6PTX HR42-AT-L	M5	1/4 ^b	11-22	8-16	7900 ^d	0.9	2.0	164	22	4	9	8	1/4	8431 0379 12
EP7PTX HR10-AT-L	M6	3/8	23-35	17-26	6200 ^d	0.9	2.0	164	22	7	15	10	1/4	8431 0379 32
EP8PTX HR10-AT-L	M6-M8	3/8	33-45	24-33	6300 ^d	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 ^b Female hexagon drive. Quick change chuck. ^d Measured at 5 bar air pressure.
type of joint, accessories used and air pressure. ^c In full speed mode.

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
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
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
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
TRIM-RE with balanced grip														
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														
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 with balanced grip														
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.

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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
EP6PS HR10	M8	3/8	~30	~22	8000	0.8	1.8	150	21	9	19	10	1/4	8431 0368 21
EP6PS HR42	M8	1/4 ^b	~28	~21	8000	0.8	1.8	148	21	9	19	10	1/4	8431 0368 22
EP8PS HR10	M8-M10	3/8	~65	~48	8000	1.0	2.2	158	23	9	19	10	1/4	8431 0368 24
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
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		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load ^a		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
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 SR10	M5	3/8	4-9	3-7	3400 ^d	0.9	2.0	207	21	4	9	8	1/4	8431 0376 04
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
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	13-18	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
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
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
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														
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 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
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
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
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
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	13-18	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 SR10-AT-L	M5	3/8	8-13	6-10	4800 ^e	0.9	2.0	267	21	4	9	8	1/4	8431 0368 01
EP5PTX SR42-AT-L	M4-M5	1/4 ^b	7-12	5-9	4800 ^e	0.7	1.6	267	21	4	9	8	1/4	8431 0368 03
EP6PTX SR10-AT-L	M6	3/8	10-17	7-13	6300 ^e	0.9	2.0	267	21	7	15	8	1/4	8431 0368 09
EP6PTX SR42-AT-L	M5	1/4 ^b	9-16	6-12	6300 ^e	0.9	2.0	267	21	4	9	8	1/4	8431 0368 15
EP7PTX SR10-AT-L	M6	3/8	16-22	12-16	4000 ^e	0.9	2.0	295	21	7	15	8	1/4	8431 0368 35
EP7PTX SR42-AT-L	M6	1/4 ^b	15-21	11-15	4000 ^e	0.9	2.0	295	21	7	15	8	1/4	8431 0368 46
EP8PTX SR10-AT-L	M6-M8	3/8	21-32	15-24	5300 ^e	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.

^d With TRIM valve fully open.

^e Measured at 5 bar air pressure.

^b Female hexagon drive. Quick change chuck.

^c In full speed mode.

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.



Model	Bolt size mm	Square drive in	Torque range ^a		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
EP6XS SR10	M6	3/8	10-20	7-15	8000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 25
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
EP7XS SR10	M8	3/8	20-31	15-23	10000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 05
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
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
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

^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.

Productivity Kits

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

Optional Accessories

GUIDED EXTENSIONS

Available for	Square drive in	Dia. of outgoing spindle mm	Length mm	Marking	Ordering No.
6-8XS, 5-8PT/PTS/PTX	3/8	13	75	10-13-75	4023 3600 02
	3/8	13	100	10-13-100	4023 3600 01
	3/8	13	150	10-13-150	4023 3601 01
	3/8	13	200	10-13-200	4023 3611 01
	3/8	13	250	10-13-250	4023 3612 01
10C, 10-12XS	3/8	13	300	10-13-300	4023 3613 01
	1/2	16	75	13-16-75	4023 3602 02
	1/2	16	100	13-16-100	4023 3602 01
	1/2	16	150	13-16-150	4023 3603 01
	1/2	16	200	13-16-200	4023 3604 01
14XS, 9-13PTX, 10-12PT/PTS	1/2	16	250	13-16-250	4023 3614 01
	1/2	16	300	13-16-300	4023 3615 01
	1/2	18	75	13-18-75	4023 3605 02
	1/2	18	100	13-18-100	4023 3605 01
	1/2	18	150	13-18-150	4023 3606 01
16XS/20XS, 14PTS/18PTS, 15PTX/19PTX	1/2	18	200	13-18-200	4023 3607 01
	1/2	18	250	13-18-250	4023 3616 01
	1/2	18	300	13-18-300	4023 3617 01
	3/4	25	100	20-25-100	4023 3608 01
	3/4	25	150	20-25-150	4023 3609 01
	3/4	25	200	20-25-200	4023 3610 01
	3/4	25	250	20-25-250	4023 3618 01
	3/4	25	300	20-25-300	4023 3619 01



Guided extensions

GUIDED SOCKETS

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



Guided sockets

Optional Accessories

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, 5-8PT/PTS/PTX	3/8	1/4 7/16	13	3/8-1/4-13 3/8-7/16-13	4026 4501 00 4026 4502 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	7/16	18	1/2-7/16-18	4026 4503 00



Guided quick change chuck

RE-REPORTING KIT

	Ordering No.
RE-reporting kit for ErgoPulse PTS/PTX models with AutoTrim or Trim-RE valve	4250 1854 91

PROTECTIVE COVER AND SUPPORT HANDLE

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 91
EP18PTS HR	4250 2319 00	



Support handle



Protective cover

For complete information, see spare parts list.



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	Pulse unit kit	Service kit	Model	Pulse unit kit	Service kit
EP5XS	4210 2532 93	4081 0264 90	EP7PTX HR	4250 2267 96	4081 0410 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 0411 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	EP25PTX GR	4250 2267 97	4081 0427 90
EP12XS HR	4250 2087 90	4081 0192 90	EP5/6PTS HR	4250 2058 90	4081 0413 90
EP14XS HR	4250 2170 90	4081 0200 90	EP7/8PTS HR	4250 2267 91	4081 0225 90
EP16XS HR	4250 2281 90	4081 0223 90	EP10PTS HR	4250 2267 90	4081 0222 90
EP20XS HR	4250 2281 91	4081 0245 90	EP12PTS HR	4250 2267 92	4081 0226 90
EP4PTX HR	4250 2058 96	4081 0122 90	EP14PTS HR	4250 2267 93	4081 0242 90
EP5/6PTX HR	4250 2058 90	4081 0122 90	EP18PTS HR	4250 2267 94	4081 0256 90

Oil filling kit (50 ml oil, syringe) 4081 0121 90
 Oil filling kit (1000 ml, syringe) 4081 0513 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).



Model	Bolt size mm	Square drive in	Torque range		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
Tools with ball retainer														
EPP6 C40 HR-B10	M6-M8	3/8	20-40	15-30	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 53
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	45-90	33-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 64
EPP11 C110 HR-B13	M12	1/2	55-110	40-80	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 68
Tools with pin retainer														
EPP6 C40 HR10	M6-M8	3/8	20-40	15-30	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 46
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	45-90	33-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 62
EPP11 C110 HR13	M12	1/2	55-110	40-80	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 66
EPP13 C150 HR13	M12-M14	1/2	75-150	55-110	5300	2.6	5.7	193	33.5	15	32	13	3/8	8431 0380 71
Tools with through hole in square drive														
EPP15 C250 HR20	M12-M16	3/4	125-250	92-184	4300	3.3	7.3	211	37	21	44	13	3/8	8431 0380 77
EPP19 C400 HR20	M16-M20	3/4	200-400	148-295	3300	4.5	9.9	217	44	23	49	13	3/8	8431 0380 82

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 1.2 m)	
PCU	8433 6990 30
ToolsTalk Pulsor C, W10	
1-user license	8092 1292 01
5-user license	8092 1292 05
10-user license	8092 1292 10
Plant license	8092 1292 99
Suspension yoke (for upside down hanging, all models)	
	4250 2720 00



Pulsor Focus



Tool Control Box (TCB)



Coil cable



Straight cable



Spiral 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.
Hoses 5 m		
EPP6 – EPP10	Cablair 10 + Ergo couplings	8202 1180 78
EPP11 – EPP19	Cablair 13 + Ergo couplings	8202 1182 13
Hoses 10 m		
EPP6 – EPP10	Cablair 10 + Ergo couplings	8202 1180 36
EPP11 – EPP19	Cablair 13 + Ergo couplings	8202 1182 15

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.



LTV29-2

LTV39-2 SERIES

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



LTV39-2

LTV FS FLUSH SOCKET TOOLS

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

Model	Bolt size mm	Square drive in	Torque range soft joint		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb				l/s	cfm			
Reversible															
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 R12-10	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-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-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-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 R16-6	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 R16-10	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-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-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-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-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 R48-13	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-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-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 R56-13	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-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-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
LTV39-2 R120-13	M12	1/2	60-120	44-88	220	2.5	5.5	500	52	25	16	34	10	1/4	8431 0633 69
Flush socket															
LTV29-2 R24 FS	M8	–	12-24	9-18	640	1.4	3.7	357	32	15	10	21	10	1/4	8431 0634 51
LTV29-2 R30 FS	M8	–	15-30	11-22	500	1.3	3.1	357	32	15	10	21	10	1/4	8431 0634 52
LTV39-2 R37 FS	M8	–	22-37	16-27	708	1.7	3.7	406	38	19	16	34	10	1/4	8431 0634 53
LTV39-2 R48 FS	M8	–	24-48	18-35	560	1.7	3.7	406	38	19	16	34	10	1/4	8431 0634 54
LTV39-2 R56 FS	M8	–	28-56	21-41	460	1.7	3.7	406	38	19	16	34	10	1/4	8431 0634 55
LTV39-2 R70 FS	M10	–	35-70	26-51	350	2.1	4.6	425	50	20	16	34	10	1/4	8431 0634 56
LTV39-2 R85 FS	M10-12	–	43-85	32-63	305	2.5	5.5	500	58	26	16	34	10	1/4	8431 0634 57
LTV39-2 R120 FS	M12	–	60-120	44-88	220	2.5	5.5	500	58	26	16	34	10	1/4	8431 0634 58

^a Quick change chuck. ^b Female hex drive. B - Ball retainer

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.



Model	Bolt size mm	Square drive in	Torque range soft joint		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb				l/s	cfm			
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 R15-10	M6	3/8	7-15	5-11	560	1.4	3.1	349	28	11	10	21	10	1/4	8431 0601 55
LTV28 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 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	1/4 ^a	14-28	10-21	340	1.4	3.1	350	29.5	13.5	10	21	10	1/4	8431 0601 44
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
Flush socket															
LTV48 R150 FS	M12	–	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	–	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.

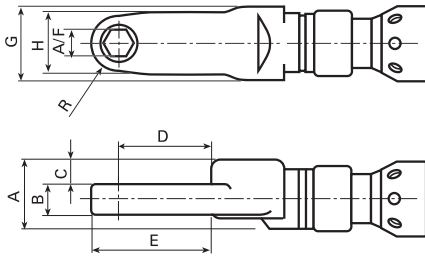


Model	Bolt size mm	Square drive in	Min torque at 3 bar soft joint		Min torque at 6.3 bar soft joint		Max torque at 6.3 bar soft joint		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air con- sumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb	Nm	ft lb		kg	lb				l/s	cfm			
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

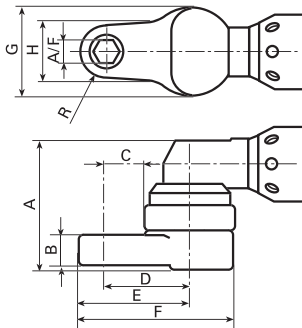


LTC

Model	Torque		Speed r/min	Weight		Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	G mm	H mm	R mm	Ordering No.
	Nm	ft lb		kg	lb											
LTC009 R08-10-LI3	4-8	2.9-6	210	1.3	2.9	312	10	34	10	13.5	37	41	35	22	10	8431 0613 72
LTC009 R13-10-LI3	6-13	4-9	127	1.8	4	312	10	34	15	12.5	46.7	59.2	35	22	10	8431 0616 01
LTC009 R14-12-LI3	6-14	4-10	127	1.8	4	319	12	34	15	12.5	45.5	71	35	30	13	8431 0616 07
LTC28 R18-10-LI3	10-18	7-13	386	1.8	4	421	10	34	15	12.5	36.7	59.2	35	22	10	8431 0616 02
LTC38 R28-12-LI3	14-28	10-20	470	1.8	4	493	12	34	15	12.5	45.5	71	35	30	13	8431 0616 09
LTC38 R34-21-LI3	16-34	12-25	390	3.7	8.2	578	21	46	20	16	74.5	44	64	40	20	8431 0616 10
LTC48 R80-21-LI3	50-80	37-59	250	4	8.9	578	21	46	20	16	74.5	84	64	40	20	8431 0616 12
LTC48 R135-22-LI3	105-135	77-99	90	4.6	10.2	651	22	46	33	14	77.5	84	64	40	20	8431 0616 15

OFFSET CROWFOOT TOOLS

Dimensions

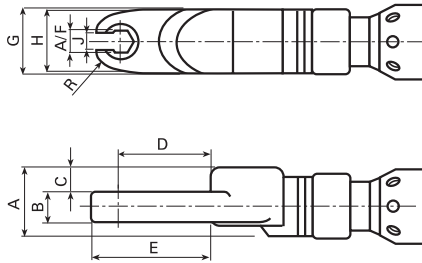


LTC

Model	Torque		Speed r/min	Weight		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.
	Nm	ft lb		kg	lb												
LTC009 R07-10-LO3	3-7	2.2-5	250	1.6	3.6	304	10	59.5	10	14.55	32.8	42.8	61.1	36.5	22	10	8431 0614 94
LTC29-2R19-10-LO3	10-19	7.3-14	640	2	4.4	384	10	60.3	15	14.55	32.8	42.8	61.1	36.5	22	10	8431 0615 02
LTC29-2R21-13-LO5	11-21	8-15	500	2	4.4	457	13	58.5	10	71.6	93.6	108.1	130.1	44	31	14.5	8431 0615 04
LTC39-2R28-12-LO5	17-28	13-21	560	2.5	5.6	488	12	69.5	15	62	84	97	119	44	30	13	8431 0615 08
LTC39-2R40-14-LO3	22-40	16-29	460	2.4	5.3	452	14	77.8	18	24.8	46.8	61.3	83.3	44	31	14.5	8431 0615 11
LTC39-2R60-16-LO3	34-60	25-44	305	3	6.7	541	16	91	24	27	51	66	91.5	48	30	15	8431 0615 14
LTC48 R80-17-LO3	56-80	41-59	215	4	8.9	641	17	69.5	27	30.3	55.8	72.3	97.8	48	33	16.5	8431 0615 17
LTC48 R96-18-LO3	56-96	41-71	210	4.7	10.4	651	18	99	32	32	63.2	82.2	113.5	62.5	38	19	8431 0615 21
Extra heavy duty attachments																	
LTC38 R33-13-A-O-3	16-33	11.8-24	430	2.6	5.8	487	13	60	19	32.8	52.8	68.8	88.8	40	34	16	8431 0611 01
LTC48 R56-17-A-O-3	24-56	18-41	400	3.9	8.7	619	17	66	19	45.1	67.6	87.2	109.7	45	39.2	19.5	8431 0611 06
LTC38 R40-17-A-O-3	23-40	17-29	360	3	6.7	519	17	66	19	45.1	67.6	87.2	109.7	45	39.2	19.5	8431 0611 08
LTC48 R120-19-A-O-3	48-120	36-89	180	4.3	9.6	656	19	87	25	42.3	67.6	87.4	112.7	54	39.5	19.75	8431 0611 15

IN-LINE TUBE NUT TOOLS

Dimensions

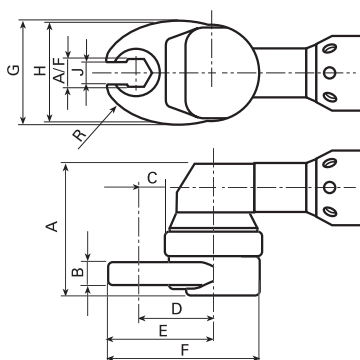


LTO

Model	Torque		Speed r/min	Weight		Length mm	A/F mm	A mm	B mm	C mm	D mm	E mm	G mm	H mm	J mm	R mm	Ordering No.
	Nm	ft lb		kg	lb												
LTO28 R06-8-LI3	2.1-6	1.5-4	833	1.8	4	369	8	32	10	13	27.3	25.4	33.5	31	7	9.8	8431 0617 02
LTO28 R12-8-LI3	6-12	4-8	420	2	4.4	388	8	32	10	13	27.3	25.4	33.5	31	7	9.8	8431 0617 03
LTO28 R12-10-LI3	6-12	4-8	420	2	4.4	396	10	32	10	13	27.3	25.4	33.5	31	7	9.8	8431 0612 44
LTO28 R15-10-LI3	6-15	4-11	400	2	4.4	397	10	32	12	11	27.9	26.1	33.5	32	8	10.3	8431 0612 46
LTO28 R17-13-LI3	8-17	6-13	350	1.9	4.2	415	13	34	11	14.5	36.3	32.3	35	38	8.5	12.4	8431 0612 48
LTO28 R19-10-LI3	8-19	6-14	350	1.9	4.2	402	10	34	14	13	31.9	29.7	35	38	8	11.2	8431 0617 07
LTO38 R26-13-LI3	14-35	10-25	220	3	6.7	536	13	46	11	20.8	52	47.3	45	55	12.5	17.2	8431 0612 50
LTO38 R26-17-LI3	15-43	11-31	200	3.2	7.1	547	17	46	12	20	60.3	38.8	45	59	16	20.1	8431 0612 54
LTO38 R28-12-LI3	10-28	7-20	320	2.9	6.4	514	12	43	11	17.5	43.7	29.3	40	50	10.4	15	8431 0617 08
LTO38 R35-12-LI3	14-35	10-25	220	2.9	6.4	519	12	43	11	17.5	43.7	29.3	40	50	10.4	15	8431 0617 09
LTO38 R43-14-LI3	14-43	10-31	220	3.2	7.1	522	14	46	18	17	41	38.5	45	50	12	15	8431 0617 10

OFFSET TUBE NUT TOOLS

Dimensions



LTO

Model	Torque		Speed r/min	Weight		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.
	Nm	ft lb		kg	lb												
LTO28 R12-12-LO5	6-12	4.4-9	470	2	4.4	402	12	66.5	11	51	73	84.9	106.9	44	8	11.9	8431 0618 05
LTO38 R28-13-LO5	11-28	8.0-20	250	2.3	5.1	506	13	71	18	53.3	75.3	87.7	109.7	44	10.4	12.4	8431 0618 12

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. 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.
- HAD sockets are available in three different lengths.
- Special sockets available upon request.
- Also suitable for break-away bolts, Hi Lok/Hi Shear.



LTV48 R200 HAD

NOTE: To reduce the reaction force in the holder, the use of a reaction bar is recommended.

Model	Bolt size mm	Torque range soft joint ^a		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
		Nm	ft lb		kg	lb				l/s	cfm			
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		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.	
			at 6.3 bar Nm	at 3 bar ft lb		kg	lb				l/s	cfm				
Reversible																
LMV28 R11-10	M6	3/8	11	8	5	4	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	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	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		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.	
			at 6.3 bar Nm	at 3 bar ft lb		kg	lb				l/s	cfm				
LBR33 S26/114-13	M8	13 ^a	22	16	11	8	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	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	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		Free speed r/min	Weight		Length mm	Angle head height mm	Angle head center to side mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.	
			at 6.3 bar Nm	at 3 bar ft lb		kg	lb				l/s	cfm				
LMK33 S001	M10-12	7/16 ^a	55	41	27	20	2.2	4.9	385	39	41	9.5	20	10	1/4	8431 0343 08
LMK33 S002	M10-12	7/16 ^a	32	24	16	12	1.9	4.2	291	39	41	9.5	20	10	1/4	8431 0343 16
LMK33 S005	M10	7/16 ^a	29	21	14	10	1.7	3.7	263	39	41	9.5	20	10	1/4	8431 0343 24

^a Female hex drive.

Accessories Included

FOR LTV MODELS

Clutch adjustment key

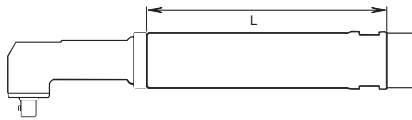
FOR LBR, LMV AND LMK MODELS

Socket adapter, 3/8" square drive LMK22,
1/2" square drive LMK33

Optional Accessories

EXTENSIONS FOR LTV

Suitable for tool	Length of extension –"L"		Ordering No.
	mm	in	
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)

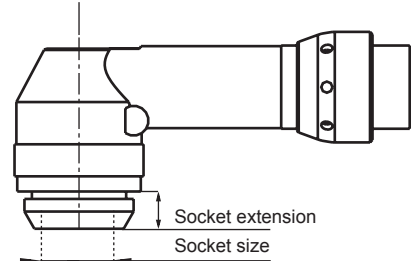
FOR LTV AND LTC MODELS

Model	Exhaust hose	Suspension yoke		Protective cover (see picture)	Reaction bar kit	Signal connection kit (-RE)
		Fixed	Swivelling			
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 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 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 for Flush socket tools

INTEGRATED SOCKETS

Model	Hexagon socket size AF mm / in	Socket extension mm	Ordering No.
LTV29-2 R24/R30 FS and ETV ST61-30-FS	8	1.5	4220 4188 88
	10	1.5	4220 4188 90
	12	1.5	4220 4188 92
	13	1.5	4220 4188 93
	5/16"	1.5	4220 4188 98
	1/4"	1.5	4220 4188 96
LTV39-2 R37/R48/R56 FS and ETV ST61-40-FS, ETV ST61-50-FS	10	2.5	4220 3987 90
	12	2.5	4220 3987 92
	13	2.5	4220 3987 93
	14	2.5	4220 3987 94
	15	2.5	4220 3987 95
	16	2.5	4220 3987 96
	17	2.5	4220 3987 97
	18	2.5	4220 3987 98
	9/16"	2.5	4220 3987 99
	13	7	4220 4012 93
	13	15	4220 4013 93
	14	15	4220 4013 94
	LTV39-2 R70 FS and ETV ST61-70-FS	16	0.5
15		16.5	4220 1621 00
15		1.5	4220 1621 01
18		6.5	4220 1621 02
16		11.5	4220 1621 03
10		3.5	4220 1621 04
20		8.5	4220 1621 05
17.5		6.5	4220 1621 06
19		8.5	4220 1621 07
16		16.5	4220 1621 08
18		10.5	4220 1621 09
16		14.5	4220 1621 10
19		10	4220 1621 11
17		11.5	4220 1621 12
13		3.5	4210 2749 01
15		3.5	4210 2749 02
12		3.5	4210 2749 03
14		3.5	4210 2749 04
9/16"		3.5	4210 2749 05
7/16"		3.5	4210 2749 06
LTV39-2 R85/R120 FS, LTV48 R150/R200 FS, and ETV DS72-160FS/200FS , ETV ST61 100/150/180/200 FS	24	12.5	4220 1595 01
	18	4.5	4220 1595 02
	25.4	13.5	4220 1595 03
	18	14.5	4220 1595 04
	21	13.5	4220 1595 05
	21	24	4220 1595 06
	14	5.5	4220 1595 07
	14.3	9	4220 1595 08
	17.5	7.5	4220 1595 09
	18	2	4210 3534 68
	18	8.5	4210 3534 18
	19	9.5	4210 3534 19
	21	10.5	4210 3534 21
	22	10.5	4210 3534 22
	24	10.5	4210 3534 24
27	13.8	4210 3534 27	

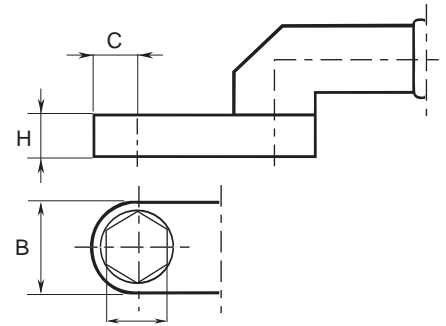


Optional Accessories for Crowfoot tools

HEX SOCKETS

Width across flats		Ordering No.
mm	in	
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

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



^a 13 mm socket mounted on tool.

^b 17 mm socket mounted on tool.

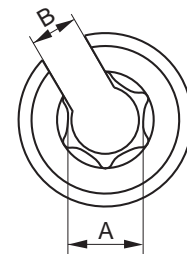
^c 19 mm socket mounted on tool.

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

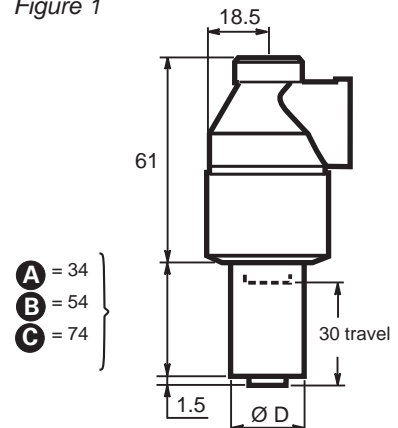
NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV38 R42-HAD/LTV38 R50-HAD AND ETV ST61-28/50 HAD

Nut socket (Fig. 1)

Width across flats W mm	Socket Ø D mm	A	Ordering No. 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

Measurements in mm

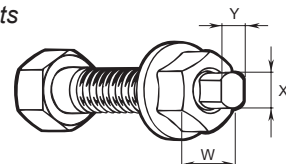
Figure 1



Screw holder

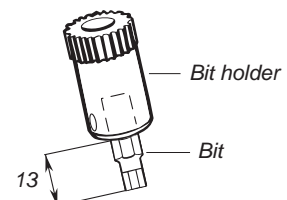
Dimension X x Y mm	Suitable socket size mm	A	Ordering No. B	C
6.6 x 5	10-21	4220 1770 19	–	–
7 x 5	10-21	–	4220 1770 17	–
5.1 x 8.2	10-21	4220 1770 01	–	4220 1770 16
8 x 6	10-21	4220 1770 02	–	–

Two flats



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"



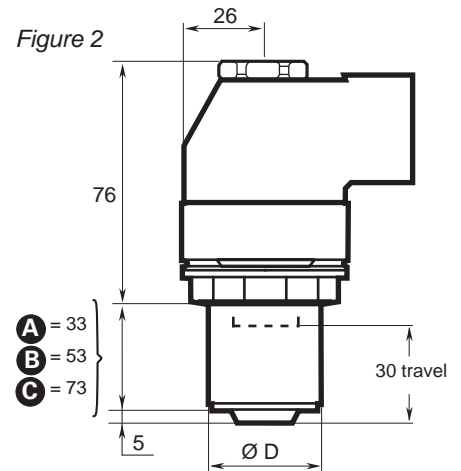
Optional Accessories for Hold and Drive tools

NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV48 R100-HAD AND ETV ST61/81-100-HAD

Nut socket (Fig. 2)

Width across flats W mm	Socket Ø D mm	Ordering No.		
		A	B	C
13	21	4220 4477 13	4220 4477 33	4220 4477 53
14	22	4220 4477 14	4220 4477 34	4220 4477 54
15	23	4220 4477 15	4220 4477 35	4220 4477 55
16	24	4220 4477 16	4220 4477 36	4220 4477 56
17	27	4220 4477 17	4220 4477 37	4220 4477 57
18	27	4220 4477 18	4220 4477 38	4220 4477 58
19	29	4220 4477 19	4220 4477 39	4220 4477 59
21	30	4220 4477 21	4220 4477 41	4220 4477 61
22	32	4220 4477 22	4220 4477 42	4220 4477 62
24	34	4220 4477 24	4220 4477 44	4220 4477 64

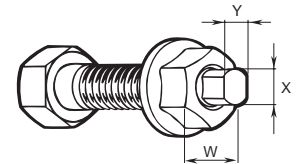
Measurements in mm



Screw holder – Two flats

Dimension X x Y mm	Suitable socket size mm	Ordering No.		
		A 33 mm	B 53 mm	C 73 mm
7x5	13-24	4220 4524 05	4220 4524 15	4220 4524 25
8x6	13-24	4220 4524 06	4220 4524 16	4220 4524 26
8x6.3	13-24	4220 4524 07	4220 4524 17	4220 4524 27
9.55x7.6	14-24	4220 4524 08	4220 4524 18	4220 4524 28
11.20x8.9	16-24	4220 4524 09	4220 4524 19	4220 4524 29
13x9.8	16-24	4220 4524 10	4220 4524 20	4220 4524 30

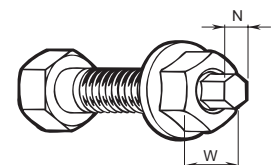
Two flats



Screw holder – Male hexagon

Dimension N mm	Suitable socket size mm	Ordering No.		
		A 33 mm	B 53 mm	C 73 mm
5	13-24	4220 4478 15	4220 4478 25	4220 4478 45
6	13-24	4220 4478 16	4220 4478 26	4220 4478 46
7	13-24	4220 4478 07	4220 4478 27	4220 4478 47
8	13-24	4220 4478 08	4220 4478 28	4220 4478 48
9	14-24	4220 4478 09	4220 4478 29	4220 4478 49
10	16-24	4220 4478 10	4220 4478 30	4220 4478 50
11	16-24	4220 4478 11	4220 4478 31	4220 4478 51

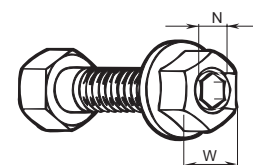
Male hexagon



Bit holder – Female hexagon

Suitable socket size mm	Ordering No.		
	A 33 mm	B 53 mm	C 73 mm
13-24	4220 4524 60	4220 4524 61	4220 4524 62

Female hexagon



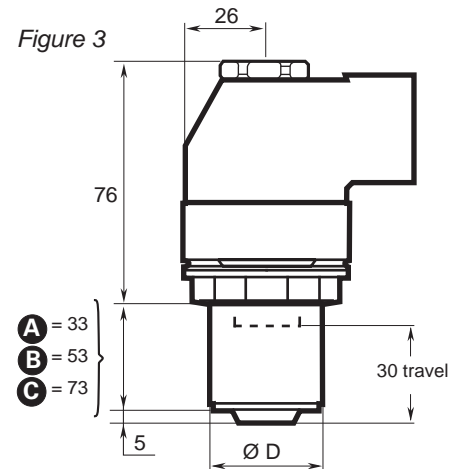
Optional Accessories for Hold and Drive tools

NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV38 R40 LT/R 85 HAD, LTV48 HAD AND ETV ST61/81-100-HAD-HD/120/150/180/200 HAD

Nut socket (Fig. 3)

Width across flats W mm	Socket Ø D mm	A	Ordering No. B	C
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

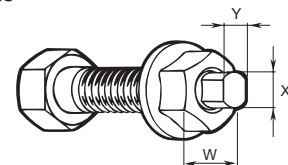
Measurements in mm



Screw holder – Two flats

Dimension X x Y mm	Suitable socket size mm	A	Ordering No. B	C
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

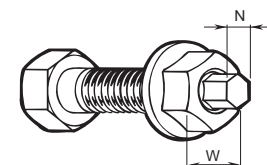
Two flats



Screw holder – Male hexagon

Dimension N mm	Suitable socket size mm	A	Ordering No. B	C
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

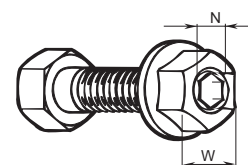
Male hexagon



Bit holder – Female hexagon

Bit holder 5/16"			5/16" Bits	
A	B	C	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

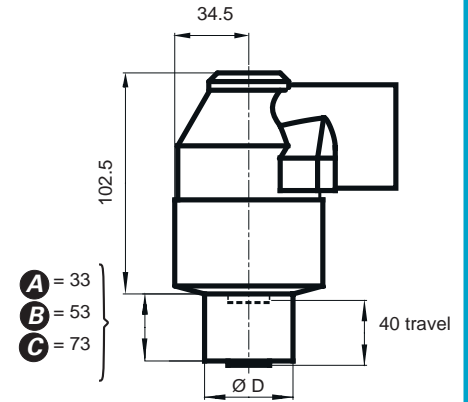
NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV69 R370-HAD AND ETV ST101-370-HAD

Nut socket (Fig. 4)

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 4



Screw holder – Two flats for LTV69 R370-HAD

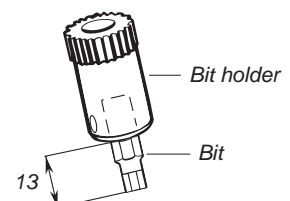
Dimension X x Y N mm	Suitable socket size mm	Ordering No.		
		A	B	C
13 x 9.8	18-36	4220 1777 80	4220 1777 83	4220 1777 85
13.20 x 10.5	18-36	4220 1777 81	4220 1777 84	4220 1777 86

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.

Productivity Kits

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

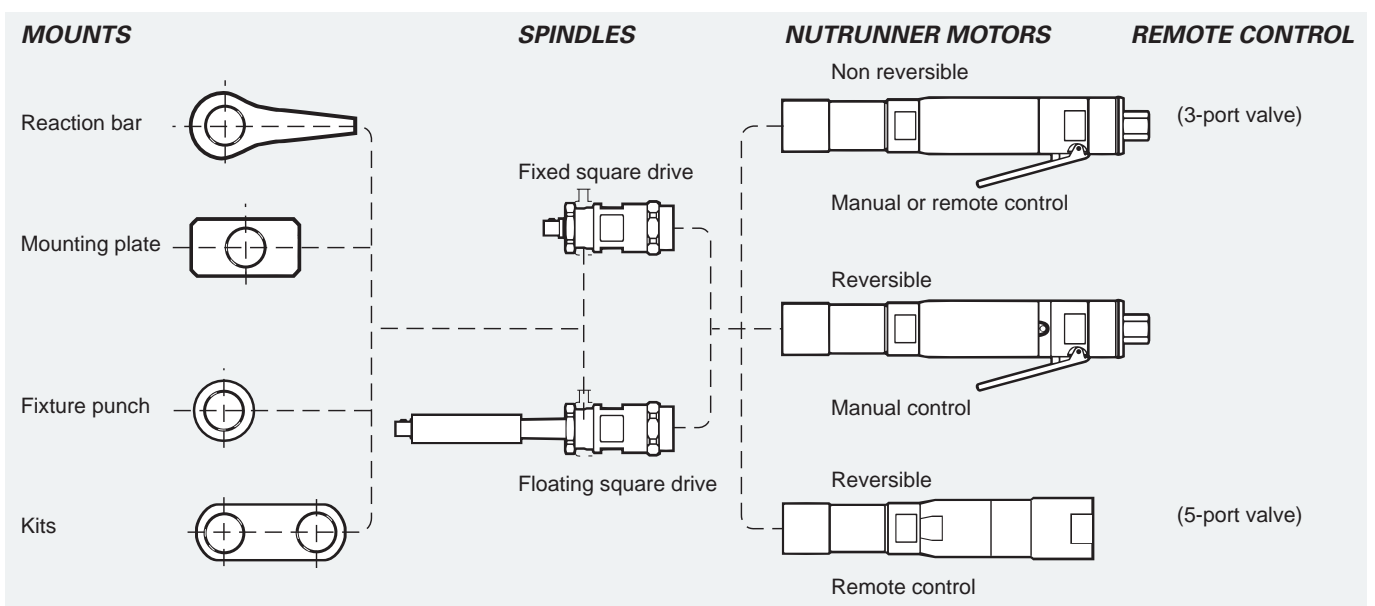
The LTD system offers a flexible, low-cost solution to many advanced tightening requirements. With fixtured tools the operator influence is minimized and very high torque accuracy is achieved.

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.

- **Reaction bar blanks** – For single spindle hand-held applications.
- **Mounting plates** – The LTD 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.
- **Air signal outlets** – All LTD models are equipped with air signal outlets for completed operation.

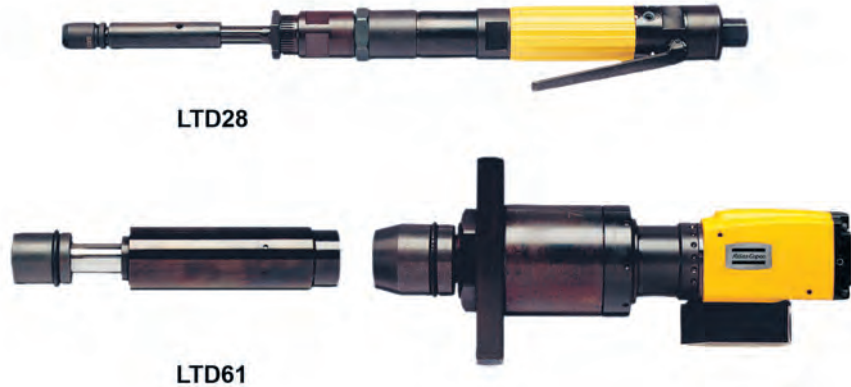
THE LTD SYSTEM



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

LTD nutrunners are based on the unique LTP range of twin motor pistol grip nutrunners. With fast run-down 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 spindle 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.



Model	Bolt size mm	Square drive in	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
Non reversible, lever start														
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 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
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 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
Reversible, lever start, telescopic front part, travel 25 mm														
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 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
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

^a Air inlet thread = 2 x 1/4" + 1 x 3/8".

^c Air inlet thread = 2 x 1/2" + 1 x 3/4".

Continued...

^b 1/4" quick change chuck.

Model	Bolt size mm	Square drive in	Torque range soft joint		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb		kg	lb			l/s	cfm			
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 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
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 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	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	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	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	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".

^c Air inlet thread = 2 x 1/2" + 1 x 3/4".

^b 1/4" quick change chuck.

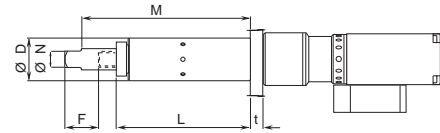
Model	Bolt size mm	Square drive in	Torque range at 6.3 bar		Min torque at 3 bar		Free speed r/min	Weight		Length mm	CS distance mm	Air consumption at free speed		Air inlet thread in	Spline type	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
Torque control models with fixed square drive																
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.

Dimensions

TELESCOPIC FRONT PART LTD61

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



Accessories Included

FOR ALL MODELS

Torque adjustment key

Productivity Kits

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

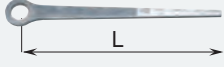


Service Kits

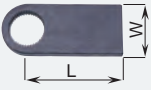


Model	General service kit
LTD61	4081 0397 90

Optional Accessories

REACTION BAR

	Dimensions mm	LTD38 N55/R47 LTD48 LMD/LTD61 -13,-19				
		LTD28	LTD38	LMD/LTD61 -20	LMD/LTD61 -25	
Bar blank (steel)	L 250 200 500	4210 1798 00	4210 2134 00	4210 2219 82	4210 2183 80	4210 2726 80
Bar blank (aluminum)	400			4210 2219 81		

MOUNTING PLATE

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

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
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

An optimum combination of torque, speed and weight

With the 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		Min torque at 3 bar		Free speed r/min	Weight ^a		Length mm	CS distance mm	Air consumption at free speed		Air inlet thread in	Spline type	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
Non-reversible																
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
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

^a Weight excluding reaction bar.

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

Recommended hose (61 series) size 13 mm for hose length up to 5 m and 16 mm hose size for length 5-10 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		Min torque at 3 bar		Free speed r/min	Weight ^a		Length mm	CS distance mm	Air con- sumption at free speed		Air inlet thread in	Spline type	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
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
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.

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

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

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.



LTP61 PH900-25

Model	Bolt size mm	Square drive in	Torque range at 6.3 bar		Min torque at 3 bar		Free speed r/min	Weight ^a		Length mm	CS distance mm	Air consumption at free speed		Air inlet thread in	Spline type	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
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 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 length 5-10 m.

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

LTP WITH MULTITORQUE 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		Min torque at 3 bar		Free speed r/min	Weight ^a		Length mm	CS distance mm	Air consumption at free speed		Air inlet thread in	Spline type	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
LTP61 HR100-13-MT	M12	1/2	55-100	40-75	45	35	1800	3.3	7.3	273	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	273	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	273	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	310	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	310	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	340	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	340	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	379	42	20	42	3/8	9	8431 0806 44

^a Without reaction bar.

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

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

Productivity Kits

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

Suspension yoke
Protective cover is included

FOR RTP1300

Suspension yoke
Protective cover is included

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 LTP 61 with MT unit	4210 4672 00 4210 4672 01
Multi torque selector LTP61	4210 4636 95
Quick change retainer – 1/2" square models – 3/4" square models – 1" square models	4250 1190 00 4210 3476 80 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 PH/H 170-13 PH/H 230-19 PH/H 350-20 PH/H 500-20 PH/H 700-25 PH/H 900-25	4210 3088 80
Mounting dia Ø 60 mm HR 100-13 HR 170-13 HR 230-19	4210 3088 84

Model	Ordering No.
Mounting dia Ø 63.5 mm H 1900-38 H 2800-38 H 3800-38	4210 3088 83
Mounting dia Ø 67 mm HR 350-20 HR 500-20 PHR/HR 700-25 PHR/HR 900-25	4210 3088 82
HR 1900-38 HR 2800-38 HR 3800-38	4210 3088 85

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

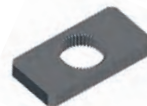
REACTION BARS LMP/LTP 61

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 8	500/150/20		4210 3899 03
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 6	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 3	1/2	82-218	4210 4616 83
Spline 3	3/4	82-218	4210 4616 63
Spline 4	3/4	76-126	4210 4481 84
Spline 4	3/4	82-218	4210 4616 84
Spline 5	1	80-125	4210 4481 85
Spline 5	1	82-218	4210 4616 85
Spline 9	1	80-130	4210 4481 89
Spline 9	1	80-280	4210 4616 89
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



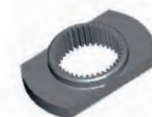
Extended sliding drive reaction bar



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

RTP NUTRUNNERS FOR HEAVY DUTY BOLTING

- RTP's slim gearpack gives you effortless access to bolts in cramped spaces.
- The torque output of the RTP is adjusted with an Atlas Copco FRL air pressure unit, helping to prolong the lifetime and torque accuracy of the tool.
- The tool's 1" exchangeable drive simplifies maintenance and cuts repair costs.



RTP4100



RTP1300

Model	Bolt size mm	Square drive in	Min torque at 1.5 bar		Max torque at 6.3 bar		Free speed r/min	Weight ^a		Length mm	CS distance mm	Air consumption at free speed		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb			l/s	cfm			
RTP1300-HR20	20-27	3/4	320	236	1300	1000	20	3.7	8.2	248	34	23	48.7	13	3/8	8431 1013 10
RTP4100-HR25	30-45	1	1000	738	4100	3097	10	8.7	19.2	335	42	31	65.5	13	3/8	8431 1040 10

^aWeight excluding reaction bar.

Included Accessories

Model	Description	Ordering No.
RTP1300	Reaction bar, S-type	4210 4480 90
RTP4100	Reaction bar, S-type	4210 4480 93
RTP1300 / 4100	Nipple, ErgoNIP 10. M10, BSP	8202 1220 19
	Productivity kit FRL stand, BSP ^b	9090 3030 02

^bHose included.

Optional Accessories

Model	Description	Ordering No.
RTP1300 / 4100	MultiFlex swivel 3/8 BSP	8202 1350 22
	Trigger guard	4210 4759 90
RTP1300	Reaction bar, sliding-drive	4210 4752 90
	Reaction bar, steel bar	4210 4757 90
	Reaction bar, square bracket	4210 4758 90
RTP4100	Reaction bar, sliding-drive	4210 4752 91
	Reaction bar, steel bar	4210 4757 91
	Reaction bar, square bracket	4210 4758 91

NOTE: All reaction bars includes a snap ring



Service Kits

Model	Description	Ordering No.
RTP1300	Gear / Motor housing	4082 0125 90
	Gear / Motor / Motor housing	4081 0510 90
RTP4100	Gear / Motor housing	4082 0116 91
	Gear / Motor / Motor housing	4081 0504 90



Reaction bar, S-type



Productivity kit



Reaction bar, sliding-drive



Reaction bar, steel bar



Reaction bar, square bracket