

## Power you can depend on

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

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

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

### LMS

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

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

### LTS

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

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

### Shut-off mechanism for LTS17 and LTS27

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

### Shut-off mechanism for LTS37 and LTS57

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



# Selection Guide

	<b>M6</b>	<b>M8</b>	<b>M10</b>	<b>M12</b>	<b>M14</b>	<b>M16</b>	<b>M18</b>	<b>M20</b>	<b>M22</b>	<b>M24</b>	<b>M27</b>	<b>M30</b>	<b>M36</b>	<b>M42</b>	<b>M45</b>	<b>M48</b>
<b>Nm</b>	<b>9.8</b>	<b>24</b>	<b>47</b>	<b>81</b>	<b>128</b>	<b>197</b>	<b>275</b>	<b>385</b>	<b>518</b>	<b>665</b>	<b>961</b>	<b>1310</b>	<b>2280</b>	<b>3640</b>	<b>4510</b>	<b>5450</b>
<b>LMS</b>	LMS06	LMS17	LMS17	LMS27	LMS37	LMS37	LMS47	LMS57	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86
	LMS06	LMS17	LMS27	LMS37	LMS37	LMS47	LMS57	LMS57	LMS57	LMS67	LMS67	LMS67	LMS86			
<b>LTS</b>		LTS17	LTS17	LTS27	LTS27	LTS37	LTS57	LTS57	LTS57							
		LTS17	LTS17	LTS37	LTS37	LTS37	LTS57	LTS57								
	<b>M6</b>	<b>M8</b>	<b>M10</b>	<b>M12</b>	<b>M14</b>	<b>M16</b>	<b>M18</b>	<b>M20</b>	<b>M22</b>	<b>M24</b>	<b>M27</b>	<b>M30</b>	<b>M36</b>	<b>M42</b>	<b>M45</b>	
<b>Nm</b>	<b>14</b>	<b>33</b>	<b>65</b>	<b>114</b>	<b>181</b>	<b>277</b>	<b>386</b>	<b>541</b>	<b>728</b>	<b>935</b>	<b>1350</b>	<b>1840</b>	<b>3210</b>	<b>5110</b>	<b>6340</b>	
<b>LMS</b>	LMS06	LMS17	LMS27	LMS27	LMS37	LMS37	LMS47	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86	
	LMS17	LMS17	LMS27	LMS37	LMS47	LMS47	LMS57	LMS61	LMS67	LMS67	LMS86					
<b>LTS</b>		LTS17	LTS17	LTS27	LTS37	LTS57	LTS57	LTS57								
		LTS17	LTS27	LTS37	LTS37	LTS57	LTS57									
	<b>M6</b>	<b>M8</b>	<b>M10</b>	<b>M12</b>	<b>M14</b>	<b>M16</b>	<b>M18</b>	<b>M20</b>	<b>M22</b>	<b>M24</b>	<b>M27</b>	<b>M30</b>	<b>M36</b>	<b>M42</b>		
<b>Nm</b>	<b>17</b>	<b>40</b>	<b>79</b>	<b>136</b>	<b>217</b>	<b>333</b>	<b>463</b>	<b>649</b>	<b>874</b>	<b>1120</b>	<b>1620</b>	<b>2210</b>	<b>3850</b>	<b>6140</b>		
<b>LMS</b>	LMS06	LMS17	LMS27	LMS27	LMS37	LMS47	LMS57	LMS61	LMS61	LMS67	LMS86	LMS86	LMS86	LMS86		
	LMS17	LMS17	LMS27	LMS37	LMS47	LMS57	LMS61	LMS67	LMS67	LMS86						
<b>LTS</b>		LTS17	LTS17	LTS27	LTS37	LTS57	LTS57									
		LTS17	LTS27	LTS37	LTS37	LTS57	LTS57									

■ = HEAVY DUTY

■ = EXTRA HEAVY DUTY

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

## LTS models

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



Model	Bolt size mm	Square drive in	Torque range		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			kg	lb			l/s	cfm			
LTS17 HR10	8-10	3/8	22 <sup>b</sup> - 45	16- 33	960	10000	2.0	4.4	214	24	6	13	8	3/8	8434 1172 19
LTS17 HR13	8-10	1/2	34 <sup>b</sup> - 66	25- 49	1100	10000	2.0	4.4	214	24	6	13	8	3/8	8434 1172 01
LTS27 HR13-1	10-12	1/2	50 <sup>b</sup> - 110	37- 82	960	9300	2.6	5.7	226	29	6	13	10	3/8	8434 1272 00
LTS27 HR13-2	12-14	1/2	70 <sup>b</sup> - 140	52- 104	1100	9300	2.6	5.7	226	29	8	17	10	3/8	8434 1272 18
LTS27 HR43	10-14	7/16 <sup>a</sup>	40 <sup>b</sup> - 165	29- 123	1200	11500	2.5	5.5	164	29	8	17	10	3/8	8434 1272 59
LTS37 HR13	12-14	1/2	80 <sup>c</sup> - 340	59- 250	1140	8800	3.7	8.1	200	33	10	21	10	3/8	8434 1372 41
LTS37 HR16	12-16	5/8	120 <sup>c</sup> - 340	88- 250	1140	8800	3.7	8.1	220	33	10	21	10	3/8	8434 1372 09
LTS57 HR20	18-20	3/4	200 <sup>c</sup> - 500	147- 369	960	4600	5.3	12.0	225	38	13	27	10	3/8	8434 1571 08
LTS57 HR25	18-22	1	200 <sup>c</sup> - 650	147- 479	960	4600	5.3	12.0	225	38	13	27	10	3/8	8434 1571 40

<sup>a</sup> Female hex. quick change chuck – 1/2" square drive on torsion bar.

<sup>b</sup> Min torque at 3 bar air pressure and min setting of torque control mechanism.

<sup>c</sup> Min torque at 4 bar air pressure and min setting of torque control mechanism.

## LMS models

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



Model	Bolt size mm	Square drive in	Torque range		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			
LMS06 HR10	6-8	3/8	7- 30	5- 22	22 55	40	2100	13500	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 04
LMS06 HR10-HD	6-8	3/8	7- 30	5- 22	22 55	40	2100	10000	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 08
LMS06 HR42	6-8	1/4 <sup>a</sup>	7- 30	5- 22	22 55	40	2100	13500	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 20
LMS06 HR42-HD	6-8	1/4 <sup>a</sup>	7- 30	5- 22	22 55	40	2100	10000	0.9	2.0	184	20	4	8	6.3	1/4	8434 1060 16
LMS17 HR10	10	3/8	10- 70	7- 52	52 110	81	1260	10000	1.7	3.8	141	24	10	21	10.0	3/8	8434 1170 60
LMS17 HR13	10	1/2	10- 70	7- 52	52 110	81	1260	10000	1.7	3.8	141	24	10	21	10.0	3/8	8434 1170 29
LMS27 HR13	12	1/2	30- 180	22- 133	220 162	1200	8700	2.1	4.6	142	29	10	21	10.0	3/8	8434 1270 02	
LMS27 HR43	12	7/16 <sup>a</sup>	30- 180	22- 133	220 162	1200	8700	2.1	4.6	142	29	10	21	10.0	3/8	8434 1270 77	
LMS37 HR13	14-16	1/2	40- 340	30- 251	480 354	1200	7800	2.7	6.0	165	33	13	27	10.0	3/8	8434 1360 41	
LMS37 HR16	14-16	5/8	40- 340	30- 251	480 354	1200	7800	2.7	6.0	165	33	13	27	10.0	3/8	8434 1370 01	
LMS47 HR20	16-19	3/4	70- 460	52- 339	550 405	900	4800	3.5	7.7	170	37	14	30	12.5	3/8	8434 1470 42	
LMS57 HR20	18-20	3/4	100- 500	74- 369	900 664	960	4500	4.3	9.5	189	38	16	34	12.5	3/8	8434 1570 09	
LMS57 HR25	18-22	1	100- 650	74- 479	900 664	960	4500	4.3	9.5	189	38	16	34	12.5	3/8	8434 1570 41	
LMS61 HR20	20-24	3/4	300-1300	220- 960	1800 1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1611 00	
LMS61 HR25	20-24	1	300-1300	220- 960	1800 1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1610 00	
LMS61 HRS4	20-24	1 1/4 <sup>b</sup>	300-1300	220- 960	1800 1327	900	4000	5.1	11.2	212	44	12	25	12.5	3/8	8434 1612 00	
LMS67 HR25	24-32	1	600-1800	440-1320	2800 2065	600	3000	9.6	21.2	252	55	27	58	16	1/2	8434 1650 06	
LMS67 HR S5	24-32	1 5/8 <sup>a</sup>	600-1800	440-1320	2800 2065	600	3000	9.6	21.2	252	55	27	58	16	1/2	8434 1650 10	

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

<sup>b</sup> Spline drive No. 4.

### LMS models

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



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 consumption under load		Rec. hose size mm	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb			kg	lb			l/s	cfm			
LMS06 SR10	6-8	3/8	7-30	5-22	55	40	2100	12500	0.9	2.0	182	20	4	8	6.3	1/4	8434 1060 12
LMS67 GIR25	24-32	1	600-1800	440-1320	2800	2065	600	3000	9.4	20.7	339	55	27	58	16	1/2	8434 1650 02
LMS67 GIR S5	24-32	1 5/8 <sup>a</sup>	600-1800	440-1320	2800	2065	600	3000	9.8	21.6	339	55	27	58	16	1/2	8434 1650 14
LMS86 GOR38/B	32-45	1 1/2	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 12
LMS86 GIR38/B	32-45	1 1/2	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 20
LMS86 GORS5/B	32-45	1 5/8 <sup>a</sup>	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 18
LMS86 GIRS5/B	32-45	1 5/8 <sup>a</sup>	1000-5000	737-3688	10000	7375	450	3720	16.4	36.0	376	63	29	61	16.0	1/2	8434 1860 26

<sup>a</sup> Spline drive No. 5.  
 GOR = Outside trigger.  
 GR/GIR = Inside trigger.

## Accessories Included

### LTS

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

### LMS

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

## Optional Accessories

### Protective covers

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



Protective covers

### Power regulator valve

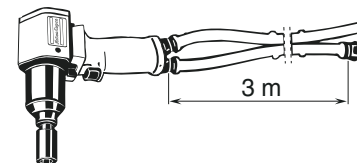
Model	Ordering No.
LMS17/LTS17	4250 1091 90
LMS27/LTS27	4250 1091 91
LMS37/LTS37	4250 1091 92
LMS47	4250 1091 93
LMS57/LTS57	4250 1091 94
LTS17	4250 1091 87
LTS27	4250 1091 86
LTS37	4250 1091 85
LTS57	4250 1091 88



Power regulators

### Piped-away exhaust kit

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



Exhaust kit

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

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



Socket holders

## Optional Accessories



## Suspension yokes

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

## Extended anvils

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

## Quick change chuck

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

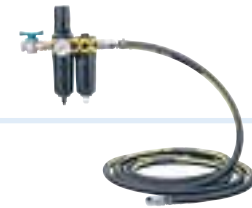
<sup>a</sup> Retainer pin – locking type 4250 0851 00

<sup>b</sup> Retainer pin – quick change type 4250 1190 00

<sup>c</sup> NOTE: To be used together with reversing valve 4250 1345 95 (marked "1") only.

## Torsion bars

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



## Installation Proposals

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



## Service Kits

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

Main parts included:

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

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