



Fast, flexible and user-friendly

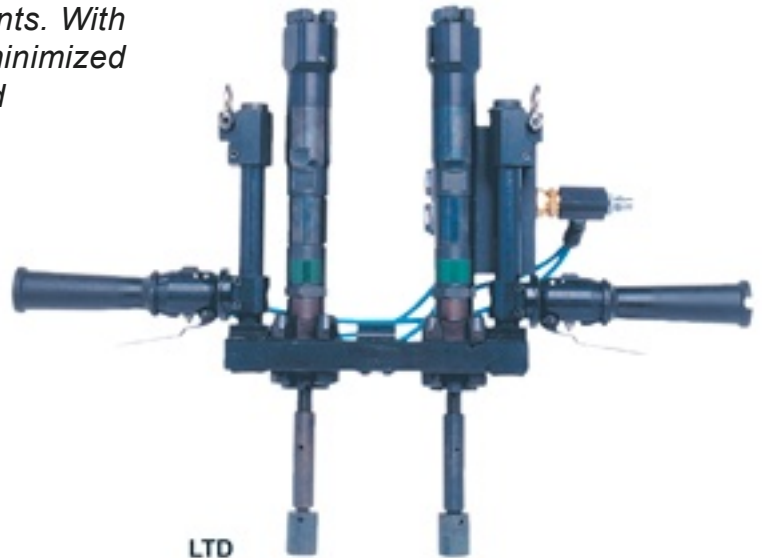
The LTD system offers a flexible, low-cost solution to many advanced tightening requirements. With fixtured tools the operator influence is minimized and very high torque accuracy is achieved

Articulating arms

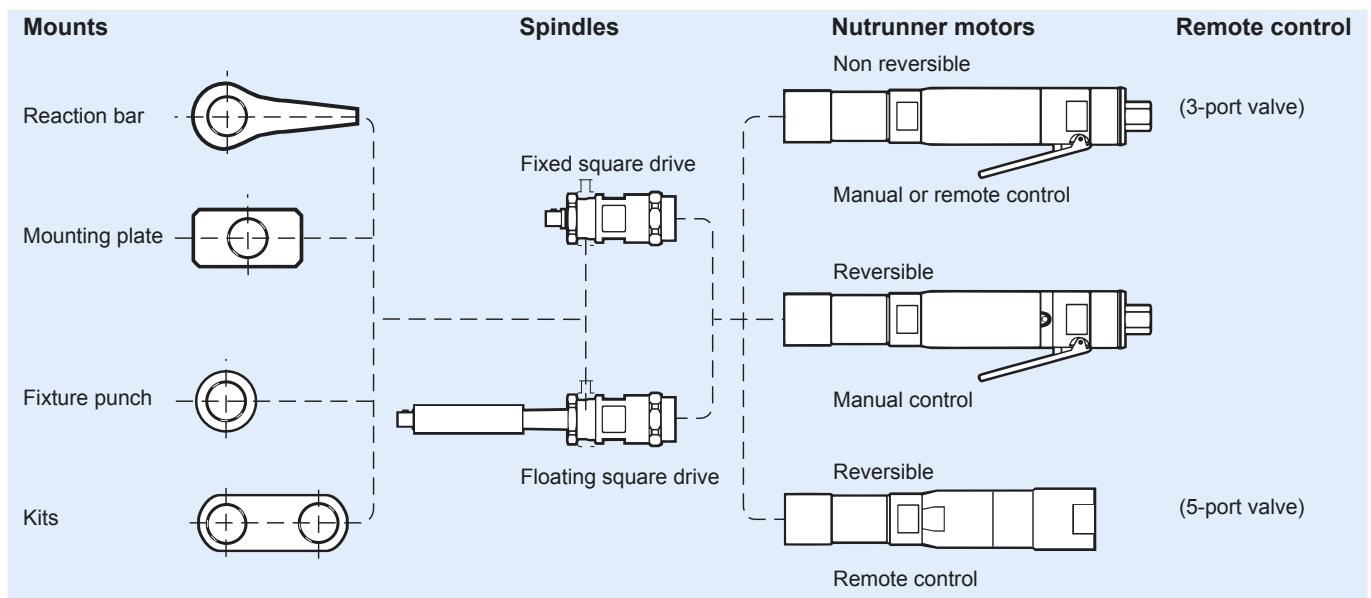
Where a fixed support on the workpiece for a reaction bar is not available, a telescopic or articulated arm mounted LTD nutrunner can be an efficient solution.

Second fastener

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



The LTD system



- **Reaction bar blanks** – For single spindle hand-held applications.
- **Mounting plates** – The LTD/LMD straight nutrunners have a splined reaction bar connection which can also be used for fixed assembly of the nutrunner. A number of standard mounting plates are available to order.
- **Floating square drive** – For two or more spindles the units must usually have floating spindles to compensate for run-down variations. Models with floating square drive or telescopic front parts are available.

- **Fixture punches** – For mounting of the nutrunner to locally made base plates a punch for the spines connection is available as optional equipment.
- **TwinSpin Kit** – A kit for building your own twin spindle assembly unit is available as extra equipment. Atlas Copco offers three sizes of twin spindle multiples, intended for 28, 38 and 48/61 sizes. The CC-distance in the TwinSpin is adjustable and the largest size has a maximum CC-distance of 364 mm. The smallest size has a minimum CC-distance of 53 mm. The complete

set has two throttle handles, one for forward and one for reverse (if the system is non reversible there is only one throttle handle).

- **Remote control** – Remote control valves are available as optional equipment.
- **Air signal outlets** – All LTD models are equipped with air signal outlets for completed operation.

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

LTD/LMD61 nutrunners are based on the unique LTP/LMP61 range of twin motor pistol grip nutrunners. With fast 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 N9-RE	M5-6	3/8	5 - 9	4 - 6	1400	1.1	2.4	339	20	9	19	10	1/4	8431 0534 05	
LTD28 N18-RE	M6	3/8	8 - 18	6 - 13	780	1.2	2.6	358	20	9	19	10	1/4	8431 0534 08	
LTD28 N21-RE	M6	3/8	10 - 21	7 - 15	570	1.2	2.6	358	20	9	19	10	1/4	8431 0534 13	
LTD28 N22-RE	M6	3/8	10 - 22	7 - 16	140	1.2	2.6	358	20	9	19	10	1/4	8431 0534 18	
Reversible, lever start															
LTD28 R8-RE	M5-6	3/8	3 - 8	2 - 6	1100	1.2	2.6	363	20	8	17	10	1/4	8431 0534 61	
LTD28 R16-RE	M6	3/8	7 - 16	6 - 12	610	1.3	2.9	383	20	8	17	10	1/4	8431 0534 65	
LTD28 R20-RE	M6-8	3/8	10 - 20	7 - 15	520	1.3	2.9	383	20	8	17	10	1/4	8431 0534 51	
LTD28 R22-RE	M6-8	3/8	10 - 22	7 - 16	125	1.3	2.9	383	20	8	17	10	1/4	8431 0534 54	
Reversible, remote control back head															
LTD13 R05-RR	M3-5	1/4 ^b	1.5 - 5	1.1 - 3.7	850	0.7	1.6	197	16	7	15	8	1/8	8431 0533 05	
LTD13 R08-RR	M3-5	1/4 ^b	1.5 - 8	1.1 - 6	500	0.8	1.7	197	16	7	15	8	1/8	8431 0533 06	
LTD25 R13-RR	M2.5-6	1/4 ^b	8 - 13	6 - 10	300	1.1	2.4	224	19	7	15	10	1/4	8431 0533 11	
LTD28 R8-RR	M5-6	3/8	3 - 8	2 - 6	1100	1.2	2.6	294	20	8	17	10/13	^a	8431 0703 80	
LTD28 R16-RR	M6	3/8	7 - 16	6 - 12	610	1.3	2.9	313	20	8	17	10/13	^a	8431 0703 82	
LTD28 R20-RR	M6-8	3/8	10 - 20	7 - 15	520	1.3	2.9	313	20	8	17	10/13	^a	8431 0703 83	
Non reversible, lever start, telescopic front part, travel 25 mm															
LTD28 N9F-RE	M5-6	3/8	5 - 9	4 - 6	1400	1.5	3.3	447	20	9	19	10	1/4	8431 0534 21	
LTD28 N18F-RE	M6	3/8	8 - 18	6 - 13	780	1.6	3.5	466	20	9	19	10	1/4	8431 0534 27	
LTD28 N21F-RE	M6	3/8	10 - 21	7 - 15	570	1.6	3.5	466	20	9	19	10	1/4	8431 0534 39	
LTD28 N22F-RE	M6	3/8	10 - 22	7 - 16	140	1.6	3.5	466	20	9	19	10	1/4	8431 0534 43	
Reversible, lever start, telescopic front part, travel 25 mm															
LTD28 R8F-RE	M5-6	3/8	3 - 8	2 - 6	1100	1.6	3.5	471	20	8	17	10	1/4	8431 0534 78	
LTD28 R16F-RE	M6	3/8	7 - 16	6 - 12	620	1.7	3.7	491	20	8	17	10	1/4	8431 0534 85	
LTD28 R20F-RE	M6-8	3/8	10 - 20	7 - 15	570	1.7	3.7	491	20	8	17	10	1/4	8431 0534 37	
LTD28 R22F-RE	M6-8	3/8	10 - 22	7 - 16	125	1.7	3.7	491	20	8	17	10	1/4	8431 0534 89	
Reversible, remote control back head, telescopic front part, travel 25 mm															
LTD28 R8F-RR	M5-6	3/8	3 - 8	2 - 6	1100	1.6	3.5	401	20	8	17	10/13	^a	8431 0703 84	
LTD28 R16F-RR	M6	3/8	7 - 16	6 - 12	620	1.7	3.7	421	20	8	17	10/13	^a	8431 0703 86	
LTD28 R20F-RR	M6-8	3/8	10 - 20	7 - 15	570	1.7	3.7	421	20	8	17	10/13	^a	8431 0703 88	
Non-reversible, lever start															
LTD38 N30-RE	M8	1/2	14 - 30	10 - 21	820	2.2	4.8	414	20	16	34	10	1/4	8431 0535 04	
LTD38 N38-RE	M8	1/2	20 - 38	15 - 27	680	2.2	4.8	414	20	16	34	10	1/4	8431 0535 12	
LTD38 N44-RE	M8-10	1/2	18 - 44	13 - 32	580	2.2	4.8	414	20	20	42	10	1/4	8431 0535 17	
LTD38 N55-RE	M10	1/2	27 - 55	20 - 40	470	2.2	4.8	487	20	20	42	10	1/4	8431 0535 20	
Reversible, lever start															
LTD38 R27-RE	M8	1/2	13 - 27	10 - 20	670	2.1	4.6	441	20	16	34	10	1/4	8431 0534 53	
LTD38 R32-RE	M8	1/2	18 - 32	13 - 24	560	2.1	4.6	441	20	16	34	10	1/4	8431 0534 52	
LTD38 R38-RE	M8-10	1/2	19 - 38	14 - 28	480	2.1	4.6	441	20	16	34	10	1/4	8431 0535 78	
LTD38 R47-RE	M8-10	1/2	22 - 47	16 - 35	380	2.3	5.1	513	20	20	42	10	1/4	8431 0535 83	

Continued...

Shut-off

Straight Nutrunners

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			
Reversible, remote control back head														
LTD38 R27-RR	M8	1/2	13-27	10-20	670	2.1	4.6	377	21	16	34	10/16	^a	8431 0704 22
LTD38 R32-RR	M8	1/2	18-32	13-24	560	2.1	4.6	377	21	16	34	10/16	^a	8431 0704 24
LTD38 R38-RR	M8-10	1/2	19-38	14-28	480	2.1	4.6	377	21	16	34	10/16	^a	8431 0704 26
LTD38 R47-RR	M8-10	1/2	22-47	16-35	380	2.3	5.1	448	21	16	34	10/16	^a	8431 0704 28
Non-reversible, lever start, telescopic front part, travel 25 mm														
LTD38 N30F-RE	M8	1/2	14-30	10-21	820	2.3	5.0	521	20	20	42	10	1/4	8431 0535 38
LTD38 N38F-RE	M8	1/2	20-38	15-27	680	2.3	5.0	521	20	20	42	10	1/4	8431 0535 46
LTD38 N44F-RE	M8-10	1/2	18-44	13-32	580	2.3	5.0	521	20	20	42	10	1/4	8431 0535 31
LTD38 N55F-RE	M10	1/2	27-55	20-40	470	2.5	5.5	599	23	20	42	10	1/4	8431 0535 53
Reversible, lever start, telescopic front part, travel 25 mm														
LTD38 R27F-RE	M8	1/2	13-27	10-20	670	2.5	5.5	546	20	16	34	10	1/4	8431 0535 65
LTD38 R32F-RE	M8	1/2	18-32	13-24	560	2.5	5.5	546	20	16	34	10	1/4	8431 0535 91
LTD38 R38F-RE	M8-10	1/2	19-38	14-28	480	2.5	5.5	546	20	16	34	10	1/4	8431 0535 95
LTD38 R47F-RE	M8-10	1/2	22-47	16-35	380	2.7	5.9	625	23	16	34	10	1/4	8431 0535 99
Reversible, remote control back head, telescopic front part, travel 25 mm														
LTD38 R27F-RR	M8	1/2	13-27	10-20	670	2.5	5.5	482	21	16	34	10/16	^a	8431 0704 30
LTD38 R32F-RR	M8	1/2	18-32	13-24	560	2.5	5.5	482	21	16	34	10/16	^a	8431 0704 32
LTD38 R38F-RR	M8-10	1/2	19-38	14-28	480	2.5	5.5	482	21	16	34	10/16	^a	8431 0704 34
LTD38 R47F-RR	M8-10	1/2	22-47	16-35	380	2.7	5.9	566	23	16	34	10/16	^a	8431 0704 36
Reversible, lever start														
LTD48 R65-RE ^d	M10	1/2	27-65	20-48	400	3.1	6.8	582	30	28	59	12.5	1/2	8431 0637 07
LTD48 R81-RE ^d	M12	1/2	32-81	24-60	320	3.1	6.8	582	30	28	59	12.5	1/2	8431 0637 12
Reversible, remote control back head														
LTD48 R65-RR	M10	1/2	27-65	20-48	400	3.5	7.7	410	28	30	63	12.5/16	^c	8431 0704 46
LTD48 R81-RR	M12	1/2	32-81	24-60	330	3.5	7.7	410	28	30	63	12.5/16	^c	8431 0704 48
Reversible, lever start, telescopic front part, travel 25 mm														
LTD48 R65F-RE ^d	M10	1/2	27-65	20-48	400	3.5	7.7	700	30	28	59	12.5	1/2	8431 0637 17
LTD48 R81F-RE ^d	M12	1/2	32-81	24-60	320	3.5	7.7	700	30	28	59	12.5	1/2	8431 0637 23
Reversible, remote control back head														
LTD48 R65F-RR	M10	1/2	27-65	20-48	400	3.7	8.2	522	28	30	63	12.5/16	^c	8431 0704 50
LTD48 R81F-RR	M12	1/2	32-81	24-60	330	3.7	8.2	522	28	30	63	12.5/16	^c	8431 0704 52

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

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

^b 1/4" quick change chuck.

^d Optional RE kit LTD48 RE Ordering No. 4210 4057 90.

Shut-off

Straight Nutrunners

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.

Non Shut-off

Straight Nutrunners

Model	Bolt size mm	Square drive in	Max torque 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			
Stall type models with fixed square drive																
LMD61 H100-13-RE	M12	1/2	100	75	60	45	2200	3.0	6.6	223	29	20	42	3/8	3	8431 0809 02
LMD61 H170-13-RE	M14	1/2	170	125	100	75	1400	3.0	6.6	223	29	20	42	3/8	3	8431 0809 10
LMD61 H230-19-RE	M16	3/4	230	170	130	95	1000	3.0	6.6	223	29	20	42	3/8	3	8431 0809 12
LMD61 H350-20-RE	M18	3/4	350	260	200	145	650	3.9	8.6	260	31	20	42	3/8	4	8431 0809 28
LMD61 H500-20-RE	M20	3/4	500	370	300	220	450	3.9	8.6	260	31	20	42	3/8	4	8431 0809 30
LMD61 H700-25-RE	M22	1	700	520	400	295	350	4.5	9.9	305	34	20	42	3/8	5	8431 0809 41
LMD61 H900-25-RE	M24	1	900	665	500	365	260	4.5	9.9	282	34	20	42	3/8	5	8431 0809 49

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