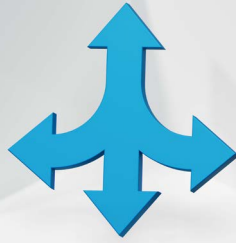


Atlas Copco



Atlas Copco Industrial Tools and Solutions

Nordic Main Catalogue



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Material Removal

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DRILLS

The handheld drills are of the highest quality and built to provide consistent reliability and performance in a wide range of applications. Their advanced ergonomic designs make your job easier, safer and more efficient.

PRODUCT PORTFOLIO



LBB - pistol



LBB - straight



EBB - pistol battery



LBD16 - modular

FEATURES

- LBB straight and pistol models
- EBB pistol battery drill
- LBV angle models
- LBD modular head straight handle
- LBP modular head pistol models
- Angle Heads 0°, 30°, 45°, 90°, 360°
- Speed 300-26000rpm
- Power up to 820W
- Chuck capacity 0.1 – 16mm
- Collets capacity 1 - 6,6mm
- Lubrication-free
- Dust extraction attachments available

BENEFITS

- Adjustable air exhaust
- High power to weight ratio
- Directed away from the operator

WHERE TO USE

- Aerospace industry
- Everywhere where are requirements for a safer and cleaner working environment
- In confined space
- Hole accuracy is crucial

GRINDERS

Power tools designed for maximum performance and high productivity.

PRODUCT PORTFOLIO



GTG Turbo grinders and sanders



Vane grinders and sanders



Angle sanders



Die grinders

FEATURES & BENEFITS

- Best power to weight ratio
- Lowest vibration levels
- Best operator ergonomics
- Long service intervals
- Lubrication free motors
- Power up to 4.5 kW
- Number of patented features for maximum productivity, ergonomics and safety

WHERE TO USE

- Foundries
- Mining
- Rail
- Wind energy
- Shipyards
- Steel construction
- Aerospace



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Quick Navigation Table for assembly tools



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QUICK NAVIGATION TABLE FOR TOOLS AND CONTROLLERS

Tools	Accuracy	Range	Control parameters	Connectivity
Air tools	+/- 10% according ISO5393	0,1 - 4000 Nm	Only Torque	Only I/O - OK signal
Hydraulic tool	+/- 3% indirect measurement, capability test	81 - 71200 Nm	Torque Angle	Ethernet
EBL	+/- 10% according ISO5393	0,1 - 5,5 Nm	Only Torque	Only I/O - OK signal
MicroTorque	Current control $\pm 7,5\%$ according to ISO5393 Tranducerized $\pm 5\%$ according to ISO5393	0,02 - 2,5 Nm	Torque Angle Speed Clamping torque	Digital I/O Open Protocol (Ethernet, RS232) Fieldbus
ICB/ITB tools	$\pm 5\%$ / $\pm 3.5\%$ according to ISO5393	1,4 - 200 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus
Handheld cable tools	$\pm 7,5\%$ / $\pm 5\%$ according to ISO5393	0,3 - 8000 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus
QST spindes	$\pm 2,5\%$ according to ISO5393	2 - 16000 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus

Controllers	Accuracy	Range	Control parameters	Connectivity
PF6000	Depend on used tool 2.5-7.5% according ISO5393	0,3 - 4000 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus
PF8	Depend on used tool 2.5-7.5% according ISO5393	0,3 - 4000 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus
PF6 FLEX	+/- 2.5% according ISO5393	2 - 1000 Nm	Torque Rotation Angle Speed	Digital I/O Ethernet Fieldbus



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Airline Infrastructure



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AIRLINE INFRASTRUCTURE

Atlas Copco's airline infrastructure products and accessories ensure that you have airline installation for your tool for maximum power, best service life, best ergonomics, safety and lowest operational costs. Products deliver best airflow characteristics helping you reach the correct torque in torque-controlled tools and maximize the productivity with maximum power of the tool.

A SELECTION OF THE PRODUCT PORTFOLIO



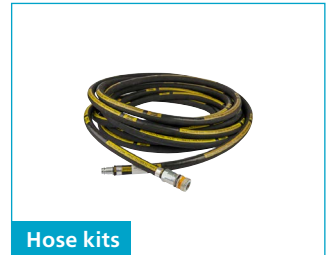
Air Preparation Unit



FRL stands



Hose Reels



Hose kits



Swivel



Couplings



Blow Guns



Pressure tester

FEATURES

- Air Preparation Units (Filter, regulator, lubricator) 1/4", 3/8", 1/2", 1"
- Hose Reels with hose length 8-30m and hose inside ø 8-25mm
- Quick Couplings with economical air flow up to 63 l/s, 16 bar, Temperature -20°C to +100°C
- Swivel Connectors 1/8", 1/4", 3/8", 1/2" with double Rotates 360° rotates
- Hoses ø 6-25mm with low weight, ESD, or Grinding and welding spatter resistance, high mechanical durability, up to superb hoses with Kevlar fibers
- Blow Gun with high flow capacity, Plastic body and Air inlet thread in brass

BENEFITS

- Safe working environment
- Minimize the service requirements of the tools
- Reduce energy costs accessories are made of the highest quality materials for long production cycles
- Silicon-free components for automotive
- Designed and optimized for AC pneumatic tools

WHERE TO USE

- Every time when pneumatic tool is used



Air Assembly Tools



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know more

AIR ASSEMBLY TOOLS

Basic tightening systems from Atlas Copco are pneumatic tools. Pneumatic tools focus on productivity, durability and ergonomics. We offer pneumatic tools handheld as well as for fixture mounting. Tools shut off at target torque by mechanical clutch.

PRODUCT PORTFOLIO



Straight handheld



Straight fixture



Pistol handle



Angle shape

- LUM = Shut-off low torque tool
- Twist = Slip clutch low torque tool
- LTV = Shut-off angle tool
- LMP61 = Stalling twin-motor pistol nutrunner
- LTP61 = Shut-off twin-motor pistol nutrunner
- LTP61-PH = Shut-off twin-motor pistol nutrunner for prevailing torque
- LTV69 = Shut-off twin-motor angle nutrunner
- EP-PTI = Shut-off hydraulic impulse tool

MAIN TECHNICAL PARAMETERS

Accuracy:	+/- 10% according ISO5393
Torque Range:	0,1 Nm – 4000 Nm
Speed:	Constant speed related to tool specification
Connectivity	OK/NOK pressure signal
Remote start	Yes (some of the tools)
Number of tightening programs	1 – mechanically set clutch
Target parameters	Torque
Control parameters	–
Results memory	–

FEATURES

- Tightening to set torque
- Push start
- Trigger start
- Remote start

BENEFITS

- Low cost tool
- Long service interval
- Fast shut-off clutch – best in class ergonomics
- Lubrication free models
- Easy maintenance and service

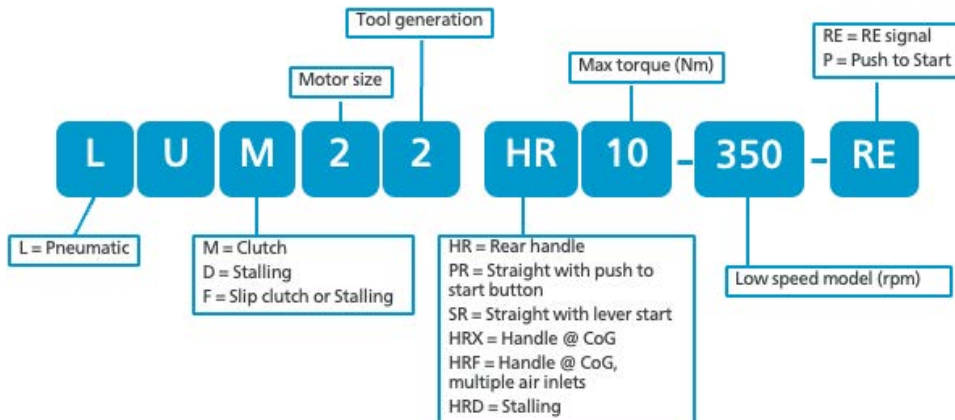
WHERE TO USE

- Temporary or pre-tightening operations
- Tightening screws on non-critical applications - missing screw or wrong tightening is affordable (for example no impact on safety, or function of final product).

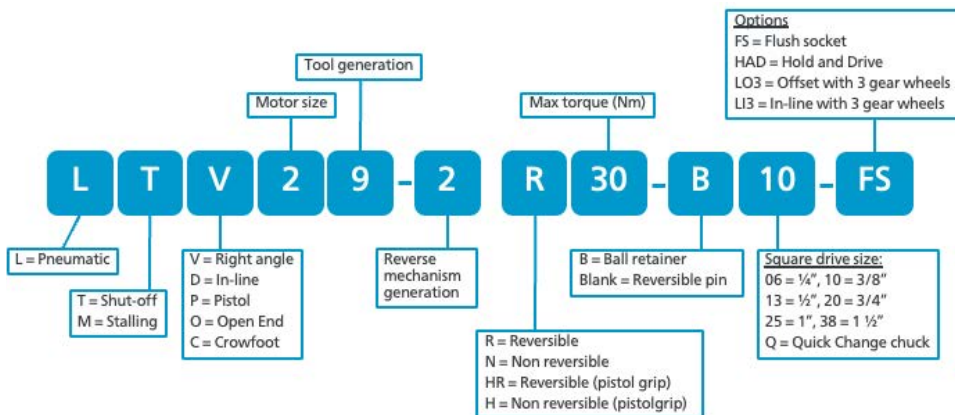
TOOL KEY - AIR ASSEMBLY TOOLS

AIR ASSEMBLY TOOLS

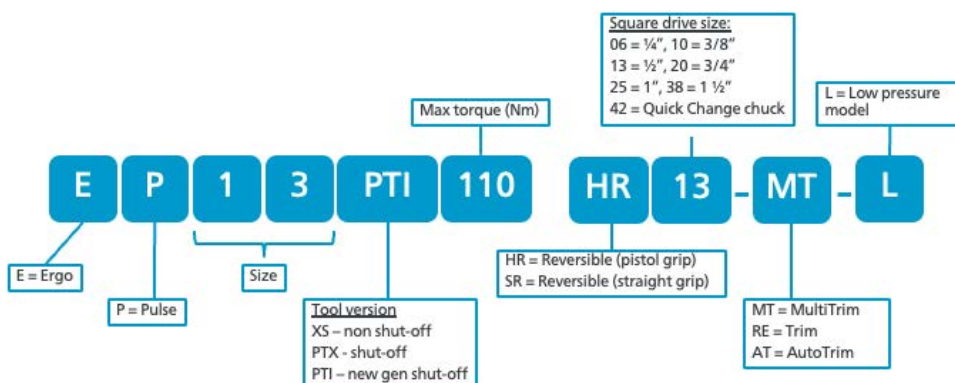
Screwdrivers - LUM/LUD/LUF



Nutrunners - LTV/LTP



Pulse tools - EP



LUM (shut-off) Models

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

Model	Torque range soft joint		Free speed	Weight		Length	CS distance	Air consumption at free speed		Rec. hose size	Air inlet thread	Ordering No.
	Nm	in lb		r/min	kg			lb	mm			
With push start and button reverse												
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
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 LUM10/12/22 SR/PR: ESD approved. All data at an air pressure of 6.3 bar.

Twist (slip-clutch) 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

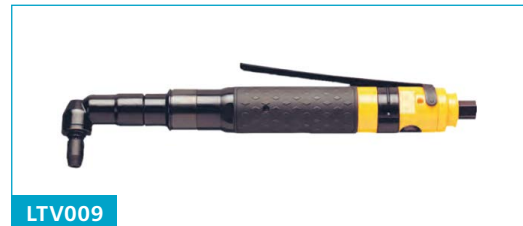
All data at an air pressure of 6.3 bar.

LTV Models

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 accessories.



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 0279 32
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.

LUM, TWIST AND LTV009 ACCESSORIES

INCLUDED ACCESSORIES

- **Exhaust hose**
Included with straight and air-on-top models
- **Clutch adjustment key**
Included with all shut-off and slip clutch models



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

*a Substitute for 4210 3857 XX angle heads.



Suspension yoke



Quick change chuck kit



Angle-head for LTV009

LUM, TWIST AND LTV009 ACCESSORIES

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	Cablaire 6 mm	ErgoQIC 08	Yes	8202 0850 10
MIDI Optimizer F/R EQ08-C06-1/8	6 l/s	Cablaire 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	Cablaire 8 mm	ErgoQIC 08	Yes	8202 0850 00
MIDI Optimizer F/R EQ08-C08	9 l/s	Cablaire 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
- O-rings
- Motor bearings
- Circlips
- Gaskets
- 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
LTV19	4081 0288 90

LTV29-2 AND LTV39-2

LTV29-2 Series

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



LTV39-2 Series

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



LTV FS Flush Socket Tools

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



LTV29-2 AND LTV39-2

Model	Bolt size	Square drive	Torque range soft joint		Free speed	Weight		Length	Angle head height	Angle head center to side	Air consumption at free speed		Rec. hose size	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	r/min	kg	lb	mm	mm	mm	l/s	cfm	mm	in	
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 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 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
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 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 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 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-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-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

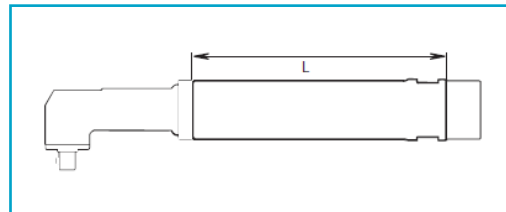
*a Quick change chuck. *b Female hex drive. B - Ball retainer.

NOTE: All LTV29/39 with -10 (3/8) square drives can be used as either pin or ball retainer.

LTV29-2 AND LTV39-2 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)	4210 4020 80	
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)	4220 1128 80	4210 4057 90
LTV69 N/R180	4210 4011 00		4210 3088 87	4210 4059 90 (a)	4220 1201 80	
LTV69 N/R370	4210 4011 00		4210 3088 87		4220 1746 80	
LTV69 N/R600	4210 4011 00		4210 3088 87			

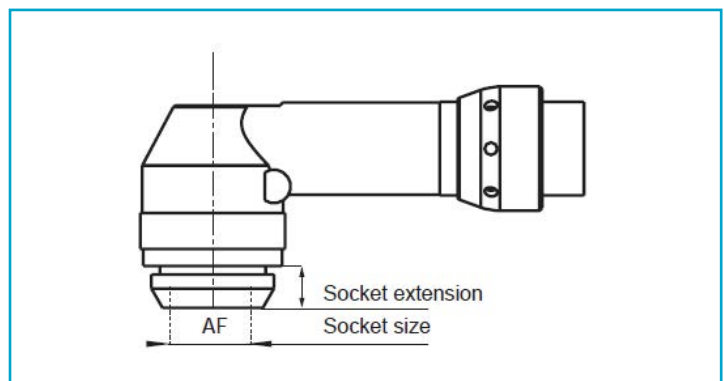
LTV29-2 AND LTV39-2 ACCESSORIES

OPTIONAL ACCESSORIES FOR FLUSH SOCKET TOOLS

INTEGRATED SOCKETS

Model	Hexagon socket size AF mm	Socket extension mm	Ordering No.
LTV29-2 R24/R30 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
	1/4"	1.5	4220 4188 96
	5/16"	1.5	4220 4188 98
LTV39-2 R37/R48/R56 FS			
	10	2.5	4220 3987 90
	12	2.5	4220 3987 92
	13	2.5	4220 3987 93
	13	7	4220 4012 93
	13	15	4220 4013 93
	14	2.5	4220 3987 94
	14	15	4220 4013 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
LTV39-2 R70 FS			
	10	3.5	4220 1621 04
	12	3.5	4210 2749 03
	13	3.5	4210 2749 01
	14	3.5	4210 2749 04
	15	1.5	4220 1621 01
	15	3.5	4210 2749 02
	15	16.5	4220 1621 00
	16	0.5	4220 1251 00
	16	11.5	4220 1621 03
	16	14.5	4220 1621 10
	16	16.5	4220 1621 08
	17	11.5	4220 1621 12
	17.5	6.5	4220 1621 06
	18	6.5	4220 1621 02
	18	10.5	4220 1621 09
	19	8.5	4220 1621 07
	19	10	4220 1621 11
	20	8.5	4220 1621 05
	7/16"	3.5	4210 2749 06
	9/16"	3.5	4210 2749 05

Model	Hexagon socket size AF mm	Socket extension mm	Ordering No.
LTV39-2 R85/R120 FS, LTV48 R 150/R200 FS			
	18	4.5	
	18	14.5	4220 1595 04
	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
	21	13.5	4220 1595 05
	21	24	4220 1595 06
	22	10.5	4210 3534 22
	24	10.5	4210 3534 24
	24	12.5	4220 1595 01
	25.4	13.5	4220 1595 03
	27	13.8	4210 3534 27

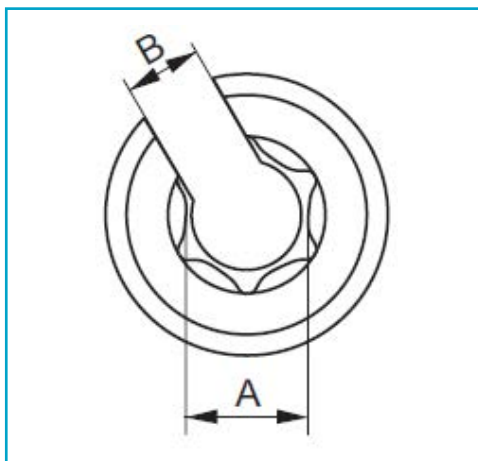


LTV29-2 AND LTV39-2 ACCESSORIES

OPTIONAL ACCESSORIES FOR OPEN END TYPE

SOCKETS

A Socket size mm	B Socket size 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



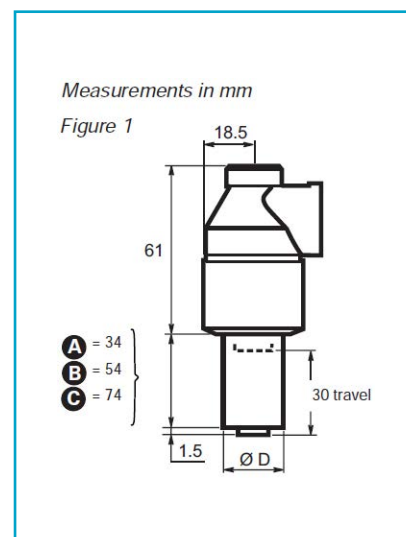
A Socket size mm	B Socket size mm	Ordering No.
LTO38 R26-13-L-I-3		
11 mm	12.5	4210 4291 63
13 mm	12.5	4210 4291 51
14 mm	12.5	4210 4291 58
9/16"	12.5	4210 4291 53
15 mm	12.5	4210 4291 55
5/8"	12.5	4210 4291 54
16 mm	12.5	4210 4291 52
17 mm	12.5	4210 4291 60
11/16"	12.5	4210 4291 56
18 mm	12.5	4210 4291 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 LTV39-2 HOLD AND DRIVE TOOLS

NUT SOCKET, SCREW HOLDER AND BIT FOR LTV39-2 R56-HAD

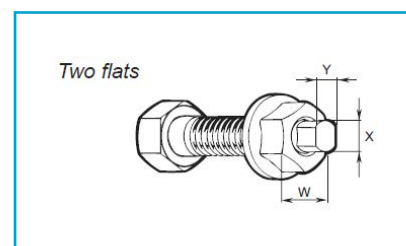
NUT SOCKET (Fig. 1)

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



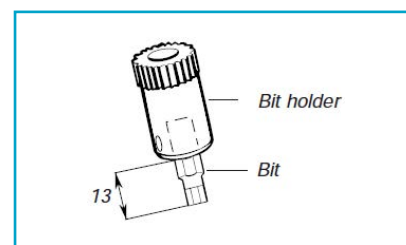
SCREW HOLDER LTV39-2 R56-HAD

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



BIT HOLDER LTV39-2 R56-HAD

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

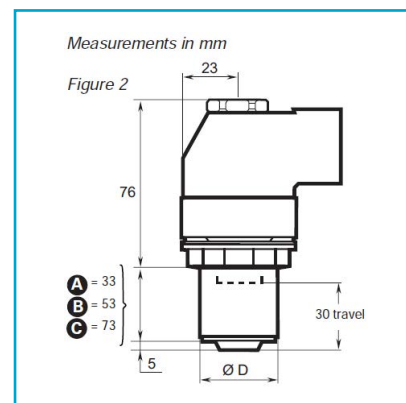


OPTIONAL ACCESSORIES FOR LTV48 HOLD AND DRIVE TOOLS

NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV48 R100-HAD

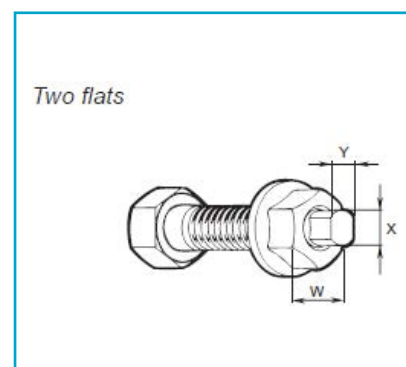
NUT SOCKET (Fig. 2)

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



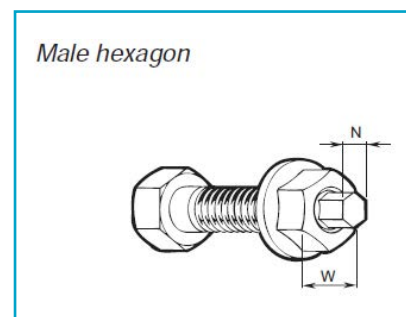
SCREW HOLDER - Two flats

Dimension X x Y	Suitable socket size	Ordering No.		
mm	mm	A 33 mm	B 53 mm	C 73 mm
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



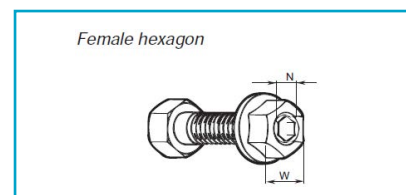
SCREW HOLDER - Male hexagon

Dimension	Suitable socket size	Ordering No.		
mm	mm	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



BIT HOLDER 1/4" - Female hexagon

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

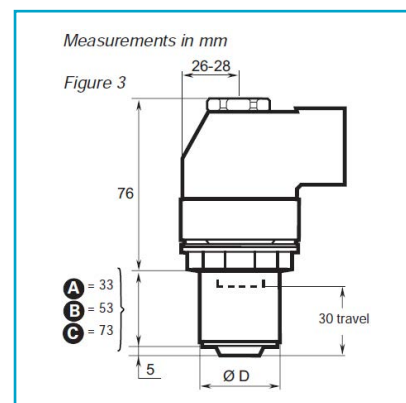


OPTIONAL ACCESSORIES FOR LTV39-2 HOLD AND DRIVE TOOLS

NUT SOCKET, SCREW HOLDER AND BIT HOLDER FOR LTV39-2 R85-HAD, LTV39-2 R120-HAD, LTV39-2 R140-HAD AND LTV39-2 R200-HAD

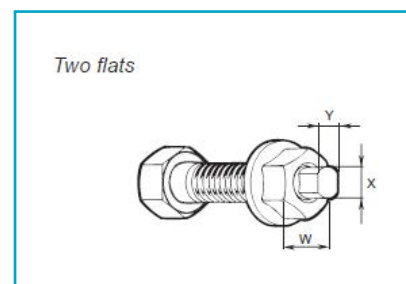
NUT SOCKET (Fig. 3)

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



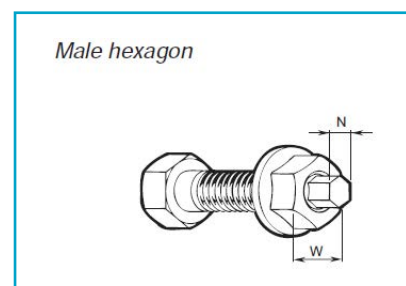
SCREW HOLDER - Two flats

Dimension X x Y	Suitable socket size	Ordering No.		
mm	mm	A 33 mm	B 53 mm	C 73 mm
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



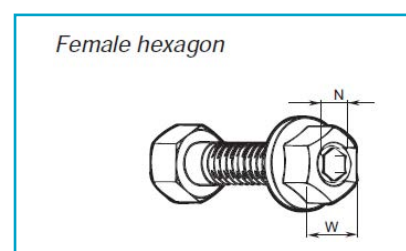
SCREW HOLDER - Male hexagon

Dimension	Suitable	Ordering No.		
mm	mm	A 33 mm	B 53 mm	C 73 mm
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



BIT HOLDER - Female hexagon

Bit holder 5/16"			5/16" Bit	
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

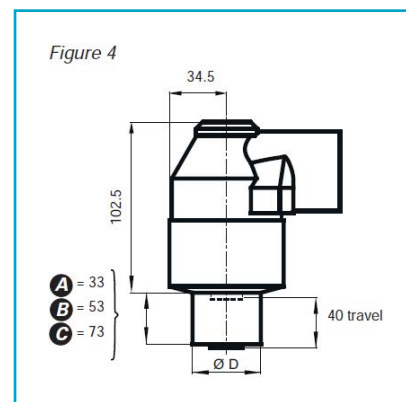


OPTIONAL ACCESSORIES FOR LTV69 HOLD AND DRIVE TOOLS

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

NUT SOCKET (Fig. 4)

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



SCREW HOLDER - Two flats

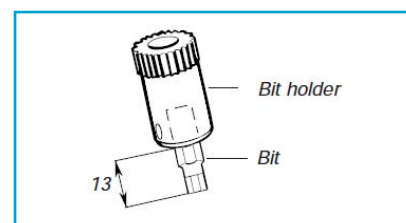
Dimension X x Y	Suitable socket size	Ordering No.		
N mm	mm	A	B	C
13 x 9.8	18-36	4220 1777 80	4220 1777 83	4220 1777 85
13.20 x 10.5	18-36	4220 1777 81	4220 1777 84	4220 1777 86

SCREW HOLDER - Male hexagon

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



PNEUMATIC NUTRUNNERS LMP61 AND LTP61



LMP61



LTP61



LTV69

LMP61 STALLING NUTRUNNERS

Model	Bolt size	Square drive	Max torque at 6.3 bar		Max torque at 3 bar		Free speed	Weight		Length	CS distance	Air consumption	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	Nm	ft lb	rpm	kg	lb	mm	mm	l/s	in	
Non-reversible														
LMP61 H500-20	M20	3/4	500	370	300	220	450	3.9	8.6	260	31	20	3/8	8431 0803 33
LMP61 H900-25	M24	1	900	665	500	365	260	4.5	9.9	282	34	20	3/8	8431 0803 47
Reversible														
LMP61 HR170-13	M14	1/2	170	125	100	75	1400	3.0	6.6	238	30	20	3/8	8431 0804 11
LMP61 HR230-19	M16	3/4	230	170	130	95	1000	3.0	6.6	275	34	20	3/8	8431 0804 18
LMP61 HR350-20	M18	3/4	350	260	200	145	650	3.9	8.6	275	34	20	3/8	8431 0804 25
LMP61 HR500-20	M20	3/4	500	370	300	220	450	3.9	8.6	320	35	21	3/8	8431 0804 32
LMP61 HR700-25	M22	1	700	520	400	295	350	4.5	9.9	305	34	20	3/8	8431 0804 39
LMP61 HR900-25	M24	1	900	665	500	365	260	4.5	9.9	305	34	20	3/8	8431 0804 46
LMP61 HR1500-25	M30	1	1600	1180	900	660	140	6.8	14.9	345	42	20	3/8	8431 0804 53

LTP61 SHUT-OFF NUTRUNNERS

Model	Bolt size	Square drive	Torque range at 6.3 bar		Min torque at 3 bar		Free speed	Weight		Length	CS distance	Air consumption	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	Nm	ft lb	rpm	kg	lb	mm	mm	l/s	in	
Non-reversible														
LTP61 H100-13	M12	1/2	55-100	40-75	45	35	1800	3.0	6.6	223	29	20	3/8	8431 0800 07
LTP61 H170-13	M14	1/2	95-170	70-125	70	50	1100	3.0	6.6	223	29	20	3/8	8431 0800 14
LTP61 H230-19	M16	3/4	125-230	90-170	85	60	820	3.0	6.6	223	29	20	3/8	8431 0800 21
LTP61 H350-20	M18	3/4	190-350	140-255	145	105	520	3.9	8.6	260	31	20	3/8	8431 0800 28
LTP61 H500-20	M20	3/4	275-500	200-370	220	160	360	3.9	8.6	260	31	20	3/8	8431 0800 35
LTP61 H700-25	M22	1	360-650	265-480	280	207	280	4.5	9.9	305	34	20	3/8	8431 0800 42
LTP61 H900-25	M24	1	480-870	350-640	300	220	210	4.5	9.9	282	32	20	3/8	8431 0800 49
LTP61 H1500-25	M30	1	850-1500	625-1100	700	516	115	6.8	14.5	323	42	20	3/8	8431 0800 56
Non-reversible Hold and Drive														
LTP61 H170-HAD	M14	-	95-170	70-125	70	50	1200	3.0	6.6	226	29	20	3/8	8431 0811 17
LTP61 H230-HAD	M16	-	125-230	90-170	85	60	900	3.0	6.6	226	29	20	3/8	8431 0811 23
Reversible														
LTP61 HR100-13	M12	1/2	55-100	40-75	45	35	1800	3.0	6.6	235	30	20	3/8	8431 0801 08
LTP61 HR170-13	M14	1/2	95-170	70-125	70	50	1100	3.0	6.6	238	30	20	3/8	8431 0801 15
LTP61 HR230-19	M16	3/4	125-230	90-170	85	60	820	3.0	6.6	275	34	20	3/8	8431 0801 22
LTP61 HR350-20	M18	3/4	190-350	140-255	145	105	520	3.9	8.6	275	34	20	3/8	8431 0801 29
LTP61 HR500-20	M20	3/4	275-500	200-370	220	160	360	3.9	8.6	320	35	21	3/8	8431 0801 36
LTP61 HR700-25	M22	1	360-650	265-480	280	207	280	4.5	9.9	305	34	20	3/8	8431 0801 43
LTP61 HR900-25	M24	1	480-870	350-640	300	220	210	4.5	9.9	305	34	20	3/8	8431 0801 50
LTP61 HR1500-25	M30	1	850-1500	625-1100	700	516	115	6.8	14.5	345	42	20	3/8	8431 0801 57
LTP61 HR1900-38	M30	1 1/2	1050-1900	770-1400	800	590	90	14.1	31.0	380	68	20	3/8	8431 0801 64

LTP61 PH, LTV69 AND ACCESSORIES

LTP61 PH SHUT-OFF NUTRUNNERS FOR PREVAILING TORQUE APPLICATIONS

Model	Bolt size	Square drive	Torque range at 6.3 bar		Min torque at 3 bar		Free speed	Weight		Length	CS distance	Air consumption	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	Nm	ft lb	rpm	kg	lb	mm	mm	l/s	in	
Non-reversible														
LTP61 PH100-13	M12	1/2	60-110	45-80	45	33	700	3.0	6.6	223	29	20	3/8	8431 0908 05
LTP61 PH170-13	M14	1/2	100-180	75-135	70	52	440	3.0	6.6	223	29	20	3/8	8431 0908 13
LTP61 PH230-19	M16	3/4	130-240	95-180	90	66	320	3.0	6.6	223	29	20	3/8	8431 0908 18
LTP61 PH350-20	M18	3/4	210-370	155-275	150	110	200	3.9	8.6	260	31	20	3/8	8431 0908 25
LTP61 PH500-20	M20	3/4	300-520	220-380	200	150	140	3.9	8.6	260	31	20	3/8	8431 0908 32
LTP61 PH700-25	M22	1	400-680	295-500	280	205	100	4.5	9.9	305	34	20	3/8	8431 0908 39
LTP61 PH900-25	M24	1	500-900	370-665	350	260	80	4.5	9.9	282	32	20	3/8	8431 0908 42
LTP61 PH1500-25	M30	1	900-1600	665-1180	650	480	45	6.8	14.9	323	42	20	3/8	8431 0908 53
Non-reversible Hold and Drive														
LTP61 PH170-HAD	M14	-	100-180	75-135	70	52	440	3.0	6.6	226	29	20	3/8	8431 0810 17
LTP61 PH230-HAD	M16	-	130-240	95-180	90	66	320	3.0	6.6	226	29	20	3/8	8431 0810 23
Reversible														
LTP61 PHR700-25	M12	1/2	55-100	40-75	45	35	1800	3.0	6.6	235	30	20	3/8	8431 0908 58
LTP61 PHR900-25	M14	1/2	95-170	70-125	70	50	1100	3.0	6.6	238	30	20	3/8	8431 0908 62
LTP61 PHR1500-25	M16	3/4	125-230	90-170	85	60	820	3.0	6.6	275	34	20	3/8	8431 0908 69

LTV69 ANGLE SHUT-OFF NUTRUNNERS

Model	Bolt size	Square drive	Torque range at 6.3 bar		Min torque at 3 bar		Free speed	Weight		Length	Angle head height	Angle head CS distance	Air consumption	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	Nm	ft lb	rpm	kg	lb	mm	mm	mm	l/s	in	
Non-reversible															
LTV69 N180-13	M16	1/2	100-170	74-125	70	52	840	4.6	10.1	577	50	25.3	20	1/2	8431 0830 35
LTV69 N370-20	M18	3/4	190-370	140-273	140	103	480	7.1	15.6	619	62	32.9	20	1/2	8431 0830 46
LTV69 N600-25	M22	1	400-600	295-443	230	170	280	9.7	21.3	661	77	54.0	20	1/2	8431 0830 52
Reversible (fixed reverse)															
LTV69 R180-13	M16	1/2	100-170	74-125	70	52	840	5.1	11.1	592	50	30	20	1/2	8431 0830 04
LTV69 R370-20	M18	3/4	190-370	140-273	140	103	480	7.6	16.6	634	62	30	20	1/2	8431 0830 15
LTV69 R600-25	M22	1	400-600	295-443	230	170	280	10.2	22.6	676	77	34	20	1/2	8431 0830 21
Hold and Drive - Non-reversible and Reversible															
LTV69 N230-HAD-LR	M16	-	140-230	103-170	80	60	320	4.0	8.8	535	-	29.5	20	1/2	8431 0830 37
LTV69 R370-HAD	M18	-	190-370	140-273	140	103	480	7.6	16.6	634	104	33	20	1/2	8431 0831 65
LTV69 R600-HAD	M22	-	400-600	295-443	230	170	280	10.4	22.9	675	105	54	20	1/2	8431 0831 66

Accessories - Model

Accessories - Model	Ordering No.
Standard LTP61 Protective cover	4210 4672 00
LTP 61 with MT unit	4210 4672 01
Multi torque selector LTP61	4210 4636 95
Quick Change Retainer – 1/2" square models	4250 1190 00
Quick Change Retainer – 3/4" square models	4210 3476 80
Quick Change Retainer – 1" square models	4210 3524 80
Shut-off override for LTP61	4210 3545 80



Standard LTP61 Protective cover



Multi torque selector LTP61

SHUT-OFF PISTOL GRIP AIR PULSE TOOL

ERGOPULSE PTI

The unique design of the ErgoPulse PTI shut-off hydraulic impulse tools brings pulse tool performance up to a level never experienced before.

PTI is our new generation of pulse tool offering superior uptime, ergonomics and productivity.

- TorqueBoost® for faster tightenings.
- MultiTrim® function integrated in tool.
- DuraPulse® technology allows for up to 5 times longer use before maintenance is required.
- Separate RE-port integrated in all tool models.
- High level of durability.
- Well balanced with superior ergonomics.
- New handle shape enabling tool use upside down.
- High speed, short cycle times.
- High power-to-weight ratio.
- No reaction forces.
- Low noise levels.
- Lubrication free.



Below table includes high pressure models (6.3 bar)

Model	Bolt size	Square drive	Torque range (a)		Free speed (b)	Weight		Length	CS distance	Angle head CS distance	Air consumption	Ordering No.
	mm	in	Nm	ft lb	r/min	kg	lb	mm	mm	mm	l/s	
EP5 PTI19 HR10-MT	M6	3/8	8-19	6-14	7300	0.9	2	168	23	6.5	1/4	8431 0381 30
EP6 PTI32 HR10-MT	M6-M8	3/8	16-32	12-23	8700	0.9	2	168	23	6	1/4	8431 0381 40
EP7 PTI55 HR10-MT	M8-M10	3/8	30-55	22-40	6500	1.2	2.5	179	27	10	1/4	8431 0381 50
EP8 PTI70 HR10-MT	M10	3/8	40-70	29-51	6500	1.3	2.8	179	27	10	1/4	8431 0381 55
EP9 PTI80 HR13-MT	M10	1/2	50-80	37-59	5200	1.5	3.3	191	31	13	1/4	8431 0381 60
EP11 PTI100 HR13-MT	M12	1/2	70-100	52-74	4200	1.7	3.7	201	31	14	1/4	8431 0381 65
EP13 PTI150 HR13-MT	M12-M14	1/2	85-150	63-110	4500	2.3	5	201	36	15	3/8	8431 0381 70

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

(b) In full speed mode.



Atlas Copco



Manual Tightening Tools



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know more

MWR WRENCH

Mechanical click wrench with wireless connectivity. Available in version with torque transducer and angle encoder to report "click" as well as torque values and angle of rotation.

Combining the productivity of a click wrench with the traceability of an electronic tool. The online results provide a traceability of the tightening process.

PRODUCT PORTFOLIO



MWR wrench



Focus 61 controller



MWR-kit and PF6000

MAIN TECHNICAL PARAMETERS FOR FOCUS 61, POWER FOCUS 6000 & POWER FOCUS 8:

Accuracy:	Torque measurement accuracy: $\pm 2\%$
Torque Range:	5 - 300 Nm
Speed:	-
Connectivity	Focus 61: Ethernet, Power Focus 6000 and Power Focus 8: Ethernet, Fieldbus, Digital I/O
Remote start	No
Number of tightening programs	1 program per wrench
Target parameters	Torque, Angle
Control parameters	Torque, Angle
Results memory	Focus 61: 25 000 results, Power Focus 6000: 10000 results, Power Focus 8: 100 000 results

FEATURES

Two wrench options:

- MWR-S: Production wrench with wireless Signal transmission
- MWR-TA: Production wrench with Torque transducer and gyroscope offering Torque and Angle control with result reporting

Two connection options:

- Connection via Focus 61 controller
- Connection via MWR-kit and Power Focus 6000 or Power Focus 8. Requires a VS license.

BENEFITS

- High productivity
- Manual wrenches with traceability
- Easy to configure
- High level of error-proofing
- A part of the Power Focus Eco system

WHERE TO USE

All types of applications in serial production where data storage and traceability is necessary. Optimal for places with bad accessibility. Anywhere where improved process control is needed.

MWR WRENCH AND ACCESSORIES

Type	Torque range Nm	Length mm	Weight kg	Drive mm	Ordering No.
MWR-25 S	5-25	177	0.446	9x12	8439 0044 00
MWR-50 S	10-50	234	0.565	9x12	8439 0044 01
MWR-85 S	17-85	307	0.630	9x12	8439 0044 02
MWR-200 S	40-200	419	0.851	14x18	8439 0044 03
MWR-300 S	60-300	898	2.5	14x18	8439 0044 04
MWR-25 TA	5-25	177	0.446	9x12	8439 0044 20
MWR-50 TA	10-50	234	0.565	9x12	8439 0044 21
MWR-85 TA	17-85	307	0.630	9x12	8439 0044 22
MWR-200 TA	40-200	419	0.851	14x18	8439 0044 23
MWR-300 TA	60-300	898	2.5	14x18	8439 0044 24

Accessories	Ordering No.
MWR - KIT *	4027 5022 06
MWR - KIT Power supply	4027 5022 11
Focus 61 Controller	8439 0044 31
Charging cradle	4027 5022 10
Setting key	4027 5013 96
Protection cover	4027 5026 28
Charging cradle clips (HD)	4027 5026 14
Recharg. battery, NIMH AAA MWR 1.2 V, 1000 mAh	4027 5021 01
Stacklight ESL-04 Standard	8433 0570 13
IO Expander (open)	8433 0564 39
IO Expander (sealed)	8433 0564 45
Focus 61 Digital Out connector	4027 5022 04
Antennas	
Antenna, 868 MHz	4027 5022 13
Antenna, 915 MHz	4027 5022 14
Cable-antenna - 2,5 m, 868/915 MHz	4027 5022 15
Extended cable-antenna - 5 m, 868/915 MHz	4027 5020 95
Battery Extender	4027 5022 52
Isolated Wrench Covers for MWR-50	
Back Cap	4027 5022 46
Battery Cap	4027 5022 45
Body	4027 5022 41
9x12 ratchet	4027 5022 47
MWR Zeroing Adaptor	4027 5022 48

* MWR-KIT does not come with power supply and it must be ordered separately.

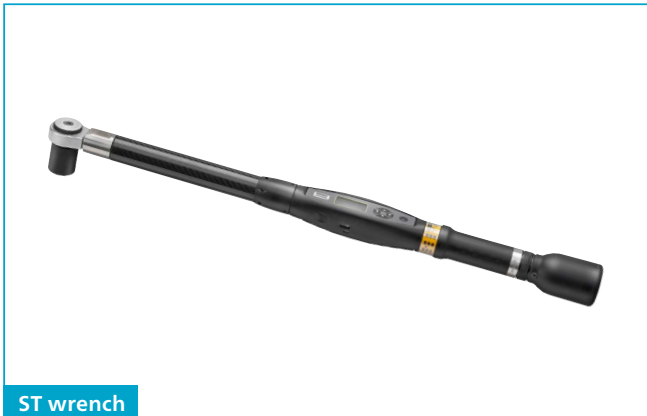


Isolated Wrench Covers for MWR-50

ST WRENCH AND STR WRENCH

ST and STR Wrench is a digital torque wrench with modular design, you can build the STwrench to meet your exact requirements. It is the best tool for tightening applications requiring high accuracy and traceability, or as universal back-up tool or for quality check applications. With increased torque range to 0.5% accuracy gives full control of the torque operation. Thanks to the extended accuracy, the ST and STR wrench now allows operators to perform the correct tightening first, avoiding the cost of re-work.

PRODUCT PORTFOLIO



ST wrench



STR wrench

Main technical parameters:	ST wrench	STR wrench
Accuracy:	± 0,5%	± 0,5%
Torque Range:	3 – 1000Nm (different SmartHead types)	16 – 1000Nm (different SmartHead types)
Speed:	-	-
Connectivity	WiFi, Ethernet, Bluetooth	WiFi, Ethernet, Bluetooth
Remote start	-	-
Number of tightening programs	200 Programs	200 Programs
Target parameters	Torque, angle	Torque, angle
Control parameters	Torque, angle	Torque, angle
Results memory	5000 results / 10 traces	10000 results / 10000 traces

FEATURES

- TAG recognition: Using RFID technology, Up to 255 tags, automatic selection of program or calibration values depending on used TAG
- Universality – one wrench for different tightening programs
- Torque range changed by SmartHead
- 3 battery types to 2 body materials to optimize ergonomics, stand-by time and durability

BENEFITS

- Lightweight tool
- Long operation time of 8hours and more
- Full traceability
- Save working place – 5S concept
- One tool for many different applications

WHERE TO USE

- For application where is necessary to use more tightening torque program
- Rather low production volume
- Safety critical joints where is necessary full traceability and data storage
- Quality check applications
- As universal back-up tool
- As Universal production tool for accurate and traceable tightening on different products

ST WRENCH

Model	Capacity Nm	Drive mm	Weight kg	Length mm	Ordering No.
Controller					
STwrench Controller			0.48	313	8059 0930 00
STwrench Controller BI			0.46	333	8059 0930 01
smartHEAD only Torque					
smartHEAD 30	30	9x12	0.20	167.5	8059 0920 30
smartHEAD 80	80	9x12	0.22	167.5	8059 0920 42
smartHEAD 150	150	14x18	0.55	271.0	8059 0920 48
smartHEAD 250	250	14x18	0.78	417.0	8059 0920 54
smartHEAD 400	400	14x18	0.93	584.0	8059 0920 60
smartHEAD 600	600	21x26	1.70	1048.5	8059 0920 66
smartHEAD 1000	1000	28	1.90	1344	8059 0920 80
smartHEAD A Torque + Angle					
smartHEAD A15	15	9x12	0.19	147.5	8059 0930 24
smartHEAD A30	30	9x12	0.19	147.5	8059 0930 31
smartHEAD A80	80	9x12	0.20	147.5	8059 0930 43
smartHEAD A150	150	14x18	0.57	271.0	8059 0930 48
smartHEAD A250	250	14x18	0.80	417.0	8059 0930 54
smartHEAD A400	400	14x18	0.95	584.0	8059 0930 60
smartHEAD A600	600	21x26	1.72	1048.5	8059 0930 66
smartHEAD A1000	1000	28	1.90	1344	8059 0930 80
smartHEAD A Torque + Angle sq					
smartHEAD Asq15	15	9x12	0.19	147.5	8059 0930 28
smartHEAD Asq30	30	9x12	0.19	147.5	8059 0930 32
smartHEAD Asq80	80	9x12	0.20	147.5	8059 0930 44
smartHEAD Asq150	150	14x18	0.55	271.0	8059 0930 50
smartHEAD Asq250	250	14x18	0.78	417.0	8059 0930 56
smartHEAD Asq400	400	14x18	0.93	584.0	8059 0930 62
RBU Rapid Backup unit					
STwrench RBU Quality					8059 0930 90
STwrench RBU Production					8059 0930 91
STwrench RBU Quality API					8059 0930 93
STwrench RBU Production API					8059 0930 92
Battery					
STwrench battery					8059 0930 86
STwrench battery BI					8059 0930 85
STwrench battery HD					8059 0930 83

ST WRENCH ACCESSORIES

SOFTWARE

Type	Ordering No.
TT BLM W09	
1 user license	8059 0981 10
5 user license	8059 0981 11
10 user license	8059 0981 12
Plant license	8059 0981 13

ACCESSORIES

Type	Ordering No.
IRC Connect IRC-B	8059 0956 81
IRC-W/B	8059 0920 19
Bar Code	8059 0920 12
Battery	8059 0930 86
Battery BI	8059 0930 85
Battery HD	8059 0930 83
Battery charger	8059 0930 88
Battery charger adapter BI	8059 0930 89
Cable box	8059 0920 24
Tool holder	8059 0930 70
Controller rubber protection	8059 0930 72
Standard Battery rubber protection	8059 0930 73
30/80 Nm smartHEAD rubber protection	8059 0930 74
150 Nm smartHEAD rubber protection	8059 0930 75
250 Nm smartHEAD rubber protection	8059 0930 76
QATnode P	8059 0920 25
QATnode I/O	8059 0920 26
QATnode T	8059 0920 27



IRC-module



Battery charger



Tool holder



Bar code



Battery

STR WRENCH AND ACCESSORIES

Model	Capacity Nm	Drive mm	Weight kg	Length mm	Ordering No.
Controller					
STRwrench Controller Compact			0.75	317	8059 0924 00
Smart Controller Advanced			0.92	317	8059 0924 01
smartHEAD A Torque + Angle					
smartHEAD A80	80	9x12	0.39	146	8059 0924 42
smartHEAD A250 short	250	14x18	0.83	262	8059 0924 43
smartHEAD A250 long	250	14x18	0.94	463	8059 0924 44
smartHEAD A400	400	14x18	1.17	584	8059 0924 45
smartHEAD A1000	1000	SH diam 28	5.3	1251	8059 0924 49
Rubber protection smartHEAD A250 long					8059 0924 30
Rubber protection smartHEAD A400					8059 0924 31
Licenses					
Integrated Controller Production electronic delivery					8059 0983 00
Integrated Controller QA - electronic delivery					8059 0983 02
Integrated Controller Production Add-on - electronic delivery					8059 0983 10
Interated Controller QA Add-on - electronic delivery					8059 0983 12
Advanced Joint check - electronic delivery					8059 0983 14
Batteries and charger					
STRwrench Battery			0.145		8059 0924 06
STRwrench Charger					8059 0924 10

CWR WRENCHES

CWR 'CLICK' WRENCH SERIES

- Wide range from 2 Nm up to 300 Nm.
- Very small sizes ideal for tightening in limited space.
- Repeatability of $\pm 4\%$.
- Easy and safe adjusting and handling.
- Standard drive (9x12 or 14x18) for a wide range of suitable end fittings.



CWR-20

MICROSWITCH ADAPTOR

- Upgrades CWR wrenches into signal transmitting devices.
- Easy support of control functionalities as batch counting and line control.



CWR-200

Model	Torque range		Length mm	Weight		Ø mm	Drive	Ordering No.
	Nm	ft lb		kg	lb			
CWR models								
CWR-20	3-20	2.2-14.8	129	0.248	0.547	21	9x12	8439 0041 00
CWR-25	2-25	1.5-18.4	174	0.288	0.635	21	9x12	8439 0041 01
CWR-50	5-50	3.7-37	236	0.466	1.027	21	9x12	8439 0041 02
CWR-85	15-85	11-62.7	305	0.576	1.270	21	9x12	8439 0041 03
CWR-120	50-120	37-88.5	349	0.666	1.468	24	9x12	8439 0041 04
CWR-200	50-200	37-148	419	0.916	2.019	30x26	14x18	8439 0041 05
CWR-300	60-300	44.2-221	685	1.366	3.012	32x28	14x18	8439 0041 06
Microswitch adaptor								
Microswitch adaptor kit for BWR-240 D								4027 5009 93
Microswitch adaptor kit for BWR-440 D								4027 5009 94
Microswitch	–	–	60	0.111	0.245	42	M18x1.5	4027 5015 90
Helix cable	–	–	2-6	0.341	0.752	–	–	8439 0030 00
Hook spanner			42					4027 5015 89



Microswitch adaptor



CWR with Microswitch adaptor

CWR AND MWR WRENCHES ACCESSORIES

Type	Ordering No.	
MWR / CWR protection cap		
5 pcs (blue)		8059 0981 10
5 pcs (green)		8059 0981 11
5 pcs (red)		8059 0981 12
5 pcs (Colormix)		
5 pcs (gold)		
5 pcs (black)		
MWR / CWR extensions	Weight	
Extension 14x18 mm, Length = 150 mm	687 g	4027 2018 08
Extension 14x18 mm, Length = 300 mm	1410 g	4027 0106 78
Extension 14x18 mm, Length = 150 mm, ALU	217 g	4027 0159 63



Protection caps



Battery Assembly Tools

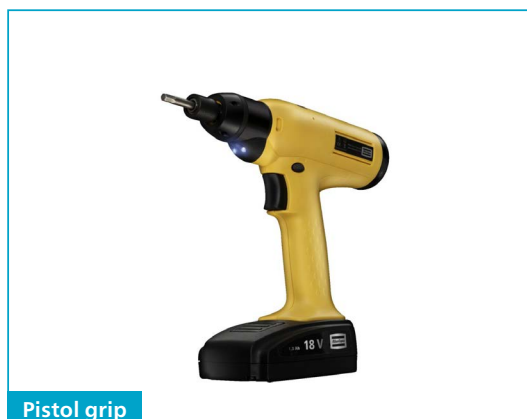


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know more

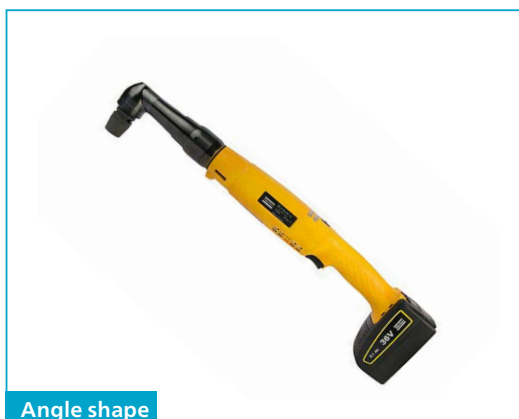
BCP AND BCV – BATTERY CLUTCH TOOLS

The main advantage of battery tools is their superior flexibility due to the absence of cables. The brushless BCP (pistol) and BCV (angle) tools are ideal for applications where flexibility is essential. The slim, well-balanced design and ergonomic handle for all-day use.

PRODUCT PORTFOLIO



Pistol grip



Angle shape

MAIN TECHNICAL PARAMETERS

Accuracy: $\pm 10\%$ according ISO5393

Torque Range: 0,8 - 60 Nm

Speed: 40 - 1550 rpm

Connectivity No

Remote start No

Number of tightening programs 1 – mechanical set clutch

Target parameters Torque

Control parameters No

Results memory No

FEATURES

- Brushless motor
- High flexibility
- Fast set-up torque on shut-off clutch
- Possibility to set the speed by Speed setting unit

BENEFITS

- Illumination of application (front LEDs)
- Light and sound feedback to the operator
- Freedom to work without hoses or cables
- Ergonomic and lightweight tools

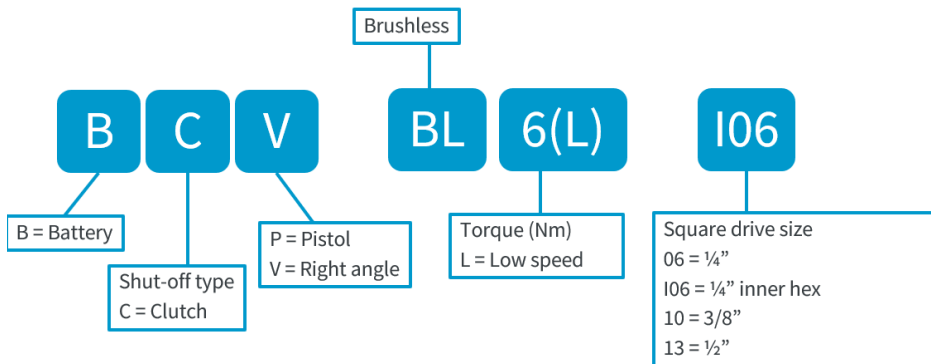
WHERE TO USE

Tightening screws on non-critical applications - missing screw or wrong tightening is affordable (for example no impact on safety, or function of final product).

TOOL KEY - BATTERY ASSEMBLY TOOLS

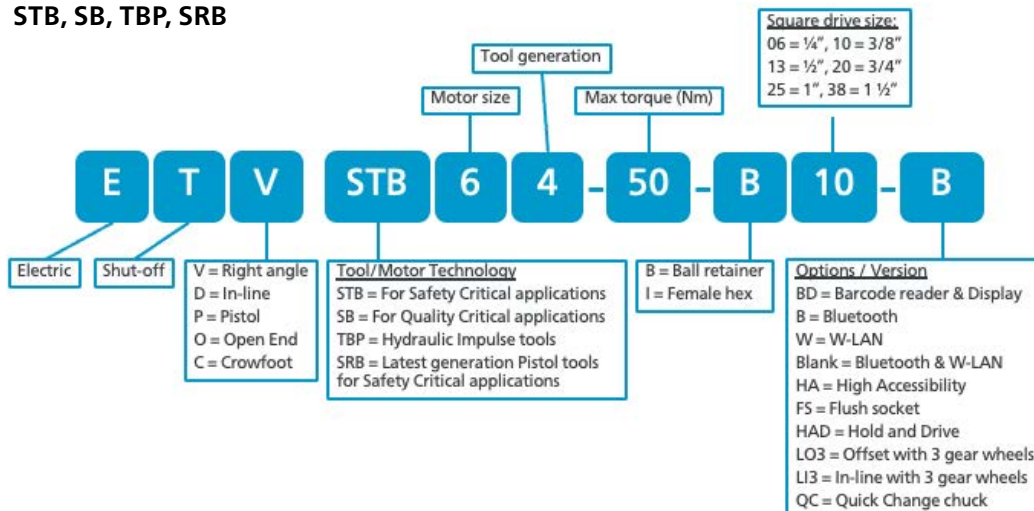
BATTERY CLUTCH TOOLS

BCP/BCV



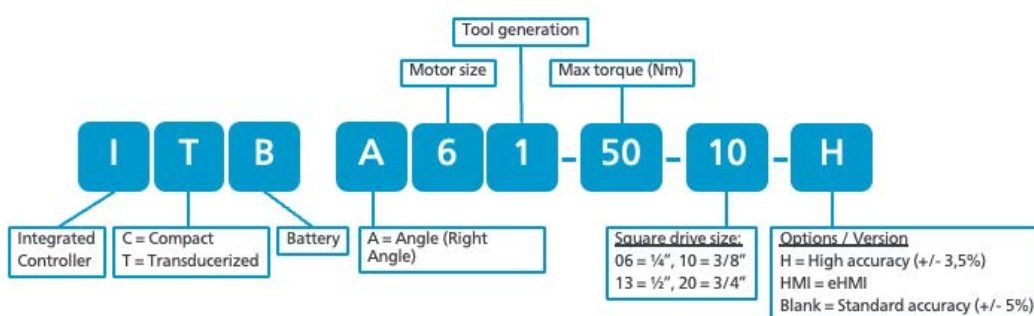
BATTERY TOOLS

STB, SB, TBP, SRB



BATTERY TOOLS

ICB/ITB



BCP AND BCPV

BCP Screwdriver - Clutch type

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

- Ergonomic, lightweight pistol-grip design.
- 7 brushless models offering variable speed with a speed setting unit.
- Torque range: 0.8-12 Nm.
- Low speed models available.
- Two 18 V batteries: 2.1 Ah flat pack or 4.2 Ah regular pack.



BCP

Model	Square drive	Torque range		Speed range	Weight excl battery		Length	Height	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
BCP BL-2-I06	1/4	0.8-2.5	0.6-1.8	500-1550	0.86	1.89	200	188	8431 1273 00
BCP BL-6-I06	1/4	2.0-6.0	1.5-4.4	300-1000	0.86	1.89	200	188	8431 1273 10
BCP BL-8-I06	1/4	3.0-8.0	2.2-5.9	300-800	0.86	1.89	200	188	8431 1273 20
BCP BL-12-I06	1/4	5.0-12.0	3.7-8.8	250-600	0.86	1.89	200	188	8431 1273 30
BCP BL-2L-I06	1/4	0.8-2.5	0.6-1.8	150-440	0.86	1.89	200	188	8431 1273 50
BCP BL-6L-I06	1/4	2.0-6.0	1.5-4.4	150-440	0.86	1.89	200	188	8431 1273 60
BCP BL-12L-I06	1/4	5.0-12.0	3.7-8.8	150-440	0.86	1.89	200	188	8431 1273 40

-L stands for low speed models.

NOTE: The tools are set at maximum speed at delivery.

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

BCV Nutrunner - Clutch type

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

- Robust yet ergonomic angle tool.
- Torque range 1.5-60 Nm.
- There are 3 Li-Ion batteries, 18 V (2.1 and 4.2 Ah) and 36 V (2.1 Ah).



BCV

Model	Square drive	Torque range		Speed range	Weight excl battery		Length	Height	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
BCV BL-07L-06	1/4	1.5-7	1.1-5.16	120-360	1.15	2.6	340	18	8431 1275 07
BCV BL-07-I06-QC	Hex 1/4	1.5-7	1.1-5.16	400-880	1.15	2.6	830	18	8431 1276 07
BCV BL-15-06	1/4	5-15	3.68-11	200-480	1.15	2.6	970	18	8431 1275 15
BCV BL-15-10	3/8	5-15	3.68-11	200-480	1.15	2.6	970	18	8431 1276 15
BCV BL-30-10	3/8	10-30	7.37-22.12	100-300	1.55	3.4	1720	36	8431 1275 30
BCV BL-45-10	3/8	20-45	14.7-33.2	50-180	1.65	3.6	1490	36	8431 1275 45
BCV BL-60-13	1/2	25-60	18.4-44.3	40-160	1.95	4.3	1750	36	8431 1275 60

BCP AND BCPV ACCESSORIES

BATTERIES

Model	Voltage V	Electric charge A h	Weight		Charge time min	Ordering No.
Li-Ion Flat pack	18	2.1	0.47	1.04	35	4211 5500 12
Li-Ion Big pack	18	4.2	0.77	1.70	70	4211 5500 22
Li-Ion (BCV 30/45/60 Nm only)	36	2.1	0.77	1.70	70	4211 5500 42

MULTICHARGER FOR BCP, BCPV AND STB

Model	Ordering No.
Multicharger 18V - 36V, all regions	4211 5424 85

COVER PROTECTIONS

Model	Ordering No.
Battery cover protection, 18V, Flat pack	4211 5690 00
Battery cover protection, 18V / 36V, Big pack	4211 5690 20
BCV BL-30-10 protective cover	4211 5603 30
BCV BL-45-10 protective cover	4211 5603 45
BCV BL-07/15 protective cover	4211 5603 00
BCP protective cover	4211 5415 00

MISCELLANEOUS

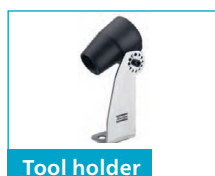
Model	Ordering No.
Speed setting unit V2 (BCV and BCP)	4211 5462 81
Battery analyzer	4211 5424 90
Support handle	4211 5421 80
Suspension yoke	4211 5600 00
Modular tool holder	4220 4335 80

COLOUR RINGS

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



Colour rings



Tool holder



Support handle



Suspension bail



Speed setting unit V2



BCP protective cover



Battery 36 V for BCPV only



Battery 18 V Flat pack



Battery 18 V Big pack



Battery multicharger 18V-36 V



Battery cover Flat pack



Battery cover Big pack

TENSOR SB

TENSOR SB

Tensor SB is Atlas Copco's response to customers who demand a truly superior industrial battery nutrunner. This userfriendly tool is characterized by a combination of quality in every tightening, operator mobility and long-lasting durability. Together these advantages give Tensor SB a unique position on the market.

- Low tool weight and high spindle speed increases productivity.
- Durable metal housing.
- Freedom of working freely in any position.
- Torque range ETV: 2-140 Nm.
- Torque range ETP: 4-12 Nm.
- Can be used with license VS Joint Control and VS Station Control.
- Can be run as stand-alone tool using RBU-SB for configuration.



Model	Square drive In	Torque range Nm ft lb	Battery	Free speed r/min	Weight kg lb	Weight incl battery kg lb	Length mm	CS distance mm	Height mm	Ordering No.
Angle models										
ETV SB33-10-10	3/8	2-10 2-7.5	18 V	975	1.45 3.2	2.1 4.65	455	14	72	8433 3027 10
ETV SB33-15-10	3/8	4-15 3-11	18 V	720	1.3 2.9	1.9 4.2	455	14	42	8433 3027 15
ETV SB33-30-10	3/8	6-30 4.5-22	18 V	380	1.6 3.55	2.2 4.85	471	15.5	42	8433 3027 30
ETV SB63-40-10	3/8	12-40 9-29	30 V	450	1.85 4.1	2.8 6.15	508	18	47.5	8433 3027 40
ETV SB63-50-10	3/8	15-50 10-37	30 V	360	1.85 4.1	2.8 6.15	508	18	47.5	8433 3027 50
ETV SB63-70-13	1/2	15-70 10-50.7	30 V	265	2.9 6.4	3.85 8.45	533	20	58	8433 3027 70
ETV SB63-100-13	1/2	20-100 15-72.5	30 V	170	3 6.6	3.95 8.7	557	22.5	60.5	8433 3027 00
ETV SB63-140-13	1/2	20-140 15-101.5	30 V	120	3.4 7.5	4.4 9.7	593	25	65	8433 3027 14
Bluetooth pistol grip models										
ETP SB33-06-I06	1/4	2-6 2-4	18 V	1500	0.95 2.1	1.55 3.4	216	–	208	8433 3027 06
ETP SB33-12-I06	1/4	4-12 3-9	18 V	750	0.95 2.1	1.55 3.4	216	–	208	8433 3027 12
ETP SB33-12-10-SEL	3/8	4-12 3-9	18 V	750	1.1 2.45	1.7 3.75	216	–	235	8433 3031 52
– SEL stands for models with premounted Pset selector.										

TENSOR SB ACCESSORIES

COVER PROTECTIONS

Model	Ordering No.
Battery cover protection, 18V Flat pack	8436 1910 99
Battery cover protection, 18V / 36V Big pack	8433 0565 00

TOOL ACCESSORIES

Model	Ordering No.
ETV SB33 (10/15/30/50 Nm models)	
Parameter set selector	8433 0616 05
ETV SB63 (70/100 Nm models)	
Parameter set selector	8433 0616 15
ETP SB33 (06/12 Nm models)	
Parameter set selector	4220 3507 81

MULTICHARGER

Model	Ordering No.
Multicharger 18V - 36V, all regions	4211 5424 85

BATTERIES - LI-ION

Voltage	Capacity	Weight	Ordering No.
18 V	4.2 Ah	0.77 kg	4211 5500 22
30 V	4.2 Ah	1.14 kg	4211 5500 32



Battery multicharger 18V-36 V



Battery 18 V Big pack

TENSOR SRB31 AND TBP

SRB31

The SRB reports wirelessly to the Power Focus 6000 system and takes full advantage of Virtual Stations, able to perform low reaction strategies as TurboTight and Tensor Pulse, and traditional strategies as the two steps.

- Operator feedback and battery status via LED indicator.
- A buffer battery makes battery swaps trouble free.
- Integrated indicator on the battery shows battery and health status.
- Dual antenna.
- Rapid Backup Unit (RBU) functionality.



SRB31

TBP

TBP is a low reaction tool with maximum flexibility and high torque. Thanks to the DuraPulse technology the tool uptime is increased and keeps it on the line instead of the tool crib. With TorqueBoost, active cooling and advanced motor steering, the torque build up is fast with reduced hours per production unit and the tool has high productivity.

- DuraPulse technology with new sealing and air separator.
- High torque.
- Excellent ergonomics with low vibrations and reaction force.
- Cooling system to prevent the tool from over-heating.
- Buffer battery.
- Dual antenna.
- Rapid Backup Unit (RBU) functionality.
- LED indicators to provide operator feedback.



TBP

Model	Square drive	Torque range		Battery	Speed	Weight	Weight incl battery	Length	CS distance	Ordering No.
	In	Nm	ft lb		r/min	kg	kg	mm	mm	
Transducerized Tensor SRB										
ETP SRB31-20-10	3/8	5-20	3.7-14.7	18/36 V	1500	1.15	1.65	212	211	8433 3270 30
ETP SRB31-20-I06	3/8	5-20	3.7-14.7	18/36 V	1500	1.15	1.65	212	211	8433 3270 31
ETP SRB31-25-10	3/8	6-25	4.4-18.4	18/36 V	1500	1.15	1.65	223	211	8433 3260 30
ETP SRB31-25-I06	3/8	6-25	4.4-18.4	18/36 V	1500	1.15	1.65	223	211	8433 3260 31
Transducerized Tensor TBP										
ETP TBP61-32-10	3/8	12-35	8.9-25.8	18 V	6000	1.330	1.835	195	231	8433 3230 20
ETP TBP61-32-10-BD	3/8	12-35	8.9-25.8	18 V	6000	1.510	2.015	195	261	8433 3230 21
ETP TBP61-32-42	1/4	12-35	8.9-25.8	18 V	6000	1.330	1.835	195	231	8433 3230 22
ETP TBP61-32-42-BD	1/4	12-35	8.9-25.8	18 V	6000	1.510	2.015	195	261	8433 3230 23
ETP TBP81-55-10	3/8	20-55	14.8-40.6	18 V	6000	1.5	2.0	200	231	8433 3230 30
ETP TBP81-55-10-BD	3/8	20-55	14.8-40.6	18 V	6000	1.68	2.18	200	261	8433 3230 31
ETP TBP91-80-13	1/2	40-80	29.5-59.0	18/36 V	6000	1.8	2.6	210	231	8433 3230 40
ETP TBP91-80-13-BD	1/2	40-80	29.5-59.0	18/36 V	6000	1.98	2.78	209	261	8433 3230 41
ETP TBP131-150-13	1/2	55-150	41-111	36 V	3600	2.80	3.50	227	255	8433 3230 60
ETP TBP131-150-13-BD	1/2	55-150	41-111	36 V	3600	2.98	3.68	227	285	8433 3230 61

TBP - S

TBP - S

TBP - S is a low reaction tool with maximum flexibility and high torque. Thanks to the DuraPulse technology the tool uptime is increased and keeps it on the line instead of the tool crib. With TorqueBoost, active cooling and advanced motor steering, the torque build up is fast with reduced hours per production unit and the tool has high productivity. TBP - S is suitable for Quality Critical joints and will report OK/NOK to MES-system.

- DuraPulse technology with new sealing and air separator.
- High torque.
- Excellent ergonomics with low vibrations and reaction force.
- Cooling system to prevent the tool from over-heating.
- Buffer battery.
- Dual antenna.
- Rapid Backup Unit (RBU) functionality.
- LED indicators to provide operator feedback.
- Natural step in transformation from air pulse tools.
- Can be run as stand-alone tool.



TBP - S

Model	Square drive	Torque range		Battery	Speed	Weight	Weight incl battery	Length	CS distance	Ordering No.
	In	Nm	ft lb		r/min	kg	kg	mm	mm	
Transducerized Tensor TBP - S										
ETP TBPS61-32-10	3/8	12-35	8.9-25.8	18 V	6000	1.330	1.835	195	231	8433 3230 25
ETP TBPS61-32-42	1/4	12-35	8.9-25.8	18 V	6000	1.330	1.835	195	231	8433 3230 27
ETP TBPS81-55-10	3/8	20-55	14.8-40.6	18 V	6000	1.5	2.0	200	231	8433 3230 35
ETP TBPS91-80-13	1/2	40-80	29.5-59.0	18/36 V	6000	1.8	2.6	210	231	8433 3230 45
ETP TBPS131-150-13	1/2	55-150	41-111	36 V	3600	2.80	3.50	227	255	8433 3230 65

TENSOR SRB AND TBP ACCESSORIES

CONTROLLER HARDWARE

Model	Ordering No.
Drive unit	
Power Focus 6000	8436 1800 02
Power Focus 6000 LV	8436 1800 11
Power Focus 8	8436 2800 02
Power Focus 8 LV	8436 2810 02
Software features, electronic delivery	
Virtual Station - Station Control, 1 pcs	8436 1960 30
Virtual Station - Critical Control, 1 pcs	8436 1960 40
Virtual Station - Process Control, 1 pcs	8436 1960 50
Low Reaction Tool Strategies, 1 pcs	8436 1910 80
TrueAngle, 1 pcs	8436 1910 03
SoftPLC, 1 pcs	8436 1910 04
Yield Control, 1 pcs	8436 1910 06
Fieldbus modules for Power Focus 6000	
DeviceNet	8436 0940 10
Ethernet/IP 2 port	8436 0940 15
ProfiNet I/O 2 port	8436 0940 20
ProfiBus	8436 0940 05

UPGRADE KIT FOR ETP TBP-S

Model	Ordering No.
Upgrade kit TBP-S6	4211 5645 30
Upgrade kit TBP-S8	4211 5645 31
Upgrade kit TBP-S9	4211 5645 32
Upgrade kit TBP-S13	4211 5645 33

ACCESSORIES FOR SRB, TBP AND TBP - S

Model	Ordering No.
Drive unit	
Selector 6 M (Mobile)	
Selector 6 with	4 slots 8433 0613 04
	8 slots 8433 0613 08
	bit slots 8433 0613 09
Protective cover TBP 6/8 and TBP-S 6/8	4250 3135 60
Protective cover TBP 9 and TBP-S 9	4250 3135 62
Protective cover TBP 13 and TBP-S 13	4250 3135 63
Protective cover SRB	4220 2744 07
SRB/TBP/TBP-S tool holder	4220 3584 86
Foot protective cover	4211 6089 00

BATTERIES AND COVERS

Model	Ordering No.
Battery Li-Ion 18V 2.6 Ah	4211 6030 85
Battery Li-Ion 36V 2.6 Ah	4211 6130 14
Protective cover 18V	4211 6090 18
Protective cover 36V	4211 6090 36
Flex charger 14-36V	4211 6083 84
Daisy chain cable	4211 6083 60

POWER CABLE FOR ETP TBP AND ETP TBP-S

Model	Ordering No.
Power Supply Unit 950W revision 6	8432 0840 06
Straight adapter with 3 m cable	8438 6060 03
Straight adapter with 5 m cable	8438 6060 05
Straight adapter with 7 m cable	8438 6060 07
Straight adapter with 10 m cable	8438 6060 10
Right angle adapter with 3 m cable	8438 6061 03
Right angle adapter with 5 m cable	8438 6061 05
Right angle adapter with 7 m cable	8438 6061 07
Right angle adapter with 10 m cable	8438 6061 10



Battery Li-Ion 18V 2.6 Ah



Battery Li-Ion 36V 2.6 Ah



Tool holder



Selector 6

IXB – BATTERY TOOLS WITH INTEGRATED CONTROLLER

The first transducerized battery tools without the need of an external controller in Atlas Copco portfolio with a full scope of PF6-like features and benefits.

Consisting of two most advanced transducerized battery tools that bring countless number of possibilities for modern production built on Industry 4.0 principles.

Available in five variants:

- ITB-A - angle models
- ITB-P - pistol models
- ITB-S - straight models
- ICB-A - compact angle models
- ICB-Q - quick change angle gear compact models



MAIN TECHNICAL PARAMETERS

Accuracy:	2 types of a transducer: $\pm 3,5$ % according to ISO 5393; ± 5 % according to ISO 5393
Torque Range:	ITB – Integrated controller Transducerized Battery tool: 1 – 200 Nm ICB – Integrated controller Compact transducer Battery tool: 1,5 – 20 Nm
Speed:	ITB: up to 2972 RPM; ICB: up to 1200 RPM; possible change during operation
Connectivity	USB, Wi-Fi, Open Protocol, Digi I/O (by using I/O hub)
Virtual Station types	Station Control, Critical Control, Process Control
Tightening programs	Up to 1000 Psets; Up to 250 Batch sequences; Multistep
Target parameters	Torque, angle, based on actual joint characteristics – seating strategy, yield strategies
Control parameters	Torque, angle (rotation), speed, seating point, yield point
Results memory	10 000 results 10 000 graphs

FEATURES

- Controller integrated in a tool
- Virtual stations concept
- Features Management concept (scaling functionality)
- Advanced tightening strategies
- Snag gradient – seating strategy
- Multistep strategy
- Full traceability
- Industry 4.0 ready
- Wireless connectivity (Wi-Fi and Bluetooth)
- Improved tool speed
- Wide range of a tool / station accessories
- Can be connected to Power Focus 6000 and Power Focus 8

BENEFITS

- Fast, stable and reliable communication / data collection (improved wireless performance)
- Space savings (no HW controller needed)
- Lower installation costs (easier installation processes)
- Smart flexibility (while building a production line / rebalancing)
- Easier joint accessibility (adjustable tool head)
- Comfortable ergonomics (adjustable tool trigger, reduced tool weight and size)
- Improved productivity (tool speed)
- Fast and easy tool management (modern & user-friendly SW)
- Reduction of defects and repairs (advanced tightening strategies, error-proofing)

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Locking ring	Ordering No.
ICB-A21-07-06	14 V & 18 V	1.4 - 7	1200	sq. 1/4	1.49	289.6	74,6	90°	rotatable	8436 0020 07
ICB-A21-07-06-H	14 V & 18 V	1.4 - 7	1200	sq. 1/4	1.49	289.6	74,6	90°	rotatable	8436 0020 08
ICB-A21-07-06-HMI	14 V & 18 V	1.4 - 7	1200	sq. 1/4	1.49	289.6	74,6	90°	rotatable	8436 0021 07
ICB-A21-07-06-HMI-H	14 V & 18 V	1.4 - 7	1200	sq. 1/4	1.49	289.6	74,6	90°	rotatable	8436 0021 08
ICB-A21-07-06-L	14 V & 18 V	1.4 - 7	1205	sq. 1/4	1.49	289.6	74,6	90°	locked	8436 0022 07
ICB-A21-07-06-L-H	14 V & 18 V	1.4 - 7	1205	sq. 1/4	1.49	289.6	74,6	90°	locked	8436 0022 08
ICB-A21-07-06-HMI-L	14 V & 18 V	1.4 - 7	1205	sq. 1/4	1.52	289.6	74,6	90°	locked	8436 0023 07
ICB-A21-07-06-HMI-L-H	14 V & 18 V	1.4 - 7	1205	sq. 1/4	1.52	289.6	74,6	90°	locked	8436 0023 08
ICB-A21-07-I06-L	14 V & 18 V	1.4 - 7	1205	fem hex. 1/4	1.58	289.6	74,6	90°	locked	8436 0028 07
ICB-A21-07-I06-L-H	14 V & 18 V	1.4 - 7	1205	fem hex. 1/4	1.58	289.6	74,6	90°	locked	8436 0019 07
ICB-A21-07-I06-HMI-L	14 V & 18 V	1.4 - 7	1205	fem hex. 1/4	1.61	289.6	74,6	90°	locked	8436 0028 08
ICB-A21-07-I06-HMI-L-H	14 V & 18 V	1.4 - 7	1205	fem hex. 1/4	1.61	289.6	74,6	90°	locked	8436 0019 08
ICB-A21-07-06-Z	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.45	301.8	74.6	110°	rotatable	8436 0020 05
ICB-A21-07-06-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.45	301.8	74.6	110°	rotatable	8436 0020 06
ICB-A21-07-06-HMI-Z	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.46	301.8	74.6	110°	rotatable	8436 0021 05
ICB-A21-07-06-HMI-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.46	301.8	74.6	110°	rotatable	8436 0021 06
ICB-A21-07-I06-Z	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.47	301.8	74.6	110°	rotatable	8436 0014 07
ICB-A21-07-I06-Z-H	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.47	301.8	74.6	110°	rotatable	8436 0014 08
ICB-A21-07-I06-HMI-Z	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.48	301.8	74.6	110°	rotatable	8436 0014 15
ICB-A21-07-I06-HMI-Z-H	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.48	301.8	74.6	110°	rotatable	8436 0014 16
ICB-A21-07-06-L-Z	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.46	301.8	74.6	110°	locked	8436 0024 07
ICB-A21-07-06-L-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.46	301.8	74.6	110°	locked	8436 0024 08
ICB-A21-07-06-HMI-L-Z	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.47	301.8	74.6	110°	locked	8436 0025 07
ICB-A21-07-06-HMI-L-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 1/4	1.47	301.8	74.6	110°	locked	8436 0025 08
ICB-A21-07-I06-L-Z	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.48	301.8	74.6	110°	locked	8436 0029 07
ICB-A21-07-I06-L-Z-H	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.48	301.8	74.6	110°	locked	8436 0018 07
ICB-A21-07-I06-HMI-L-Z	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.49	301.8	74.6	110°	locked	8436 0029 08
ICB-A21-07-I06-HMI-LZ-H	14 V & 18 V	1,8 - 7	1015	fem hex. 1/4	1.49	301.8	74.6	110°	locked	8436 0018 08
ICB-A21-07-10-Z	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0016 07
ICB-A21-07-10-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0016 08
ICB-A21-07-10-HMI-Z	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0017 07
ICB-A21-07-10-HMI-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0017 08
ICB-A21-07-10-L-Z	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.5	301.8	74.6	110°	locked	8436 0016 05
ICB-A21-07-10-L-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.5	301.8	74.6	110°	locked	8436 0016 06
ICB-A21-07-10-HMI-L-Z	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.51	301.8	74.6	110°	locked	8436 0017 05
ICB-A21-07-10-HMI-L-Z-H	14 V & 18 V	1,8 - 7	1015	sq. 3/8	1.51	301.8	74.6	110°	locked	8436 0017 06
ICB-A21-12-06	14 V & 18 V	4 - 12	755	sq. 1/4	1.535	300.3	74.6	90°	rotatable	8436 0020 12
ICB-A21-12-06-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.535	300.3	74.6	90°	rotatable	8436 0020 13
ICB-A21-12-06-HMI	14 V & 18 V	4 - 12	755	sq. 1/4	1.565	300.3	74.6	90°	rotatable	8436 0021 12
ICB-A21-12-06-HMI-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.565	300.3	74.6	90°	rotatable	8436 0021 13
ICB-A21-12-06-Z	14 V & 18 V	4 - 12	755	sq. 1/4	1.47	301.8	74.6	110°	rotatable	8436 0020 14
ICB-A21-12-06-Z-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.47	301.8	74.6	110°	rotatable	8436 0020 11
ICB-A21-12-06-HMI-Z	14 V & 18 V	4 - 12	755	sq. 1/4	1.48	301.8	74.6	110°	rotatable	8436 0021 14
ICB-A21-12-06-HMI-Z-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.48	301.8	74.6	110°	rotatable	8436 0021 11
ICB-A21-12-06-L-Z	14 V & 18 V	4 - 12	755	sq. 1/4	1.48	301.8	74.6	110°	locked	8436 0016 14

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Locking ring	Ordering No.
ICB-A21-12-06-L-Z-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.48	301.8	74.6	110°	locked	8436 0016 11
ICB-A21-12-06-HMI-L-Z	14 V & 18 V	4 - 12	755	sq. 1/4	1.49	301.8	74.6	110°	locked	8436 0017 14
ICB-A21-12-06-HMI-L-Z-H	14 V & 18 V	4 - 12	755	sq. 1/4	1.49	301.8	74.6	110°	locked	8436 0017 11
ICB-A21-15-10	14 V & 18 V	4 - 15	750	sq. 3/8	1.54	300.3	74.6	90°	rotatable	8436 0020 15
ICB-A21-15-10-H	14 V & 18 V	4 - 15	750	sq. 3/8	1.54	300.3	74.6	90°	rotatable	8436 0020 16
ICB-A21-15-10-HMI	14 V & 18 V	4 - 15	750	sq. 3/8	1.54	300.3	74.6	90°	rotatable	8436 0021 15
ICB-A21-15-10-HMI-H	14 V & 18 V	4 - 15	750	sq. 3/8	1.54	300.3	74.6	90°	rotatable	8436 0021 16
ICB-A21-15-10-L	14 V & 18 V	4 - 15	755	sq. 3/8	1.54	300.3	74.6	90°	locked	8436 0022 15
ICB-A21-15-10-L-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.54	300.3	74.6	90°	locked	8436 0022 16
ICB-A21-15-10-HMI-L	14 V & 18 V	4 - 15	755	sq. 3/8	1.57	300.3	74.6	90°	locked	8436 0023 15
ICB-A21-15-10-HMI-L-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.57	300.3	74.6	90°	locked	8436 0023 16
ICB-A21-15-I06-L	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.59	300.3	74.6	90°	locked	8436 0028 15
ICB-A21-15-I06-L-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.59	300.3	74.6	90°	locked	8436 0019 15
ICB-A21-15-I06-HMI-L	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.62	300.3	74.6	90°	locked	8436 0028 16
ICB-A21-15-I06-HMI-L-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.62	300.3	74.6	90°	locked	8436 0019 16
ICB-A21-15-10-Z	14 V & 18 V	4 - 15	755	sq. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0016 15
ICB-A21-15-10-Z-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0016 16
ICB-A21-15-10-HMI-Z	14 V & 18 V	4 - 15	755	sq. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0017 15
ICB-A21-15-10-HMI-Z-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0017 16
ICB-A21-15-I06-Z	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0015 07
ICB-A21-15-I06-Z-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.49	301.8	74.6	110°	rotatable	8436 0015 08
ICB-A21-15-I06-HMI-Z	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0015 15
ICB-A21-15-I06-HMI-Z-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.5	301.8	74.6	110°	rotatable	8436 0015 16
ICB-A21-15-10-L-Z	14 V & 18 V	4 - 15	755	sq. 3/8	1.5	301.8	74.6	110°	locked	8436 0024 15
ICB-A21-15-10-L-Z-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.5	301.8	74.6	110°	locked	8436 0024 16
ICB-A21-15-10-HMI-L-Z	14 V & 18 V	4 - 15	755	sq. 3/8	1.51	301.8	74.6	110°	locked	8436 0025 15
ICB-A21-15-10-HMI-L-Z-H	14 V & 18 V	4 - 15	755	sq. 3/8	1.51	301.8	74.6	110°	locked	8436 0025 16
ICB-A21-15-I06-L-Z	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.5	301.8	74.6	110°	locked	8436 0029 15
ICB-A21-15-I06-L-Z-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.5	301.8	74.6	110°	locked	8436 0018 15
ICB-A21-15-I06-HMI-L-Z	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.51	301.8	74.6	110°	locked	8436 0029 16
ICB-A21-15-I06-HMI-LZ-H	14 V & 18 V	4 - 15	755	fem hex. 3/8	1.51	301.8	74.6	110°	locked	8436 0018 16
ICB-A21-20-10	14 V & 18 V	5 - 20	580	sq. 3/8	1.58	306.8	74.6	90°	locked	8436 0020 20
ICB-A21-20-10-HMI	14 V & 18 V	5 - 20	580	sq. 3/8	1.62	306.8	74.6	90°	locked	8436 0021 20
ICB-A21-20-10-L	14 V & 18 V	5 - 20	580	sq. 3/8	1.67	306.8	74.6	90°	locked	8436 0022 20
ICB-A21-20-10-HMI-L	14 V & 18 V	5 - 20	580	sq. 3/8	1.71	306.8	74.6	90°	locked	8436 0023 20
ICB-Q21-07	14 V & 18 V	1.4 - 7	1205		1.36	254.0	74.6			8436 0030 07
ICB-Q21-07-HMI	14 V & 18 V	1.4 - 7	1205		1.38	254.0	74.6			8436 0030 08
ICB-Q21-13	14 V & 18 V	3.4 - 13	897		1.36	254.0	74.6			8436 0030 13
ICB-Q21-13-HMI	14 V & 18 V	3.4 - 13	897		1.38	254.0	74.6			8436 0030 14

ICB-Q ANGLE HEADS

Type	Material name	Compability	Output shaft drive	Ordering No.
Angle gear 7 Nm	Angle gear 7Nm Q-C	ICB-Q21-07 and ICB-Q21-07-HMI	sq. 1/4	4211 5819 80
Angle gear 12 Nm	Angle gear 12Nm Q-C	ICB-Q21-13 and ICB-Q21-13-HMI	sq. 1/4	4211 5874 80
Angle gear 15 Nm	Angle gear 15Nm Q-C	ICB-Q21-13 and ICB-Q21-13-HMI	sq. 3/8	4211 5812 80
Angle gear 20 Nm	Angle Gear 20Nm Q-C	ICB-Q21-13 and ICB-Q21-13-HMI	sq. 3/8	4211 5807 80
110 deg angle gear 7 Nm	Angle gear 12Nm 110deg Q-C	ICB-Q21-07 and ICB-Q21-07-HMI	sq. 1/4	4211 5875 80
110 deg angle gear 12 Nm	Angle gear 12Nm 110deg Q-C	ICB-Q21-13 and ICB-Q21-13-HMI	sq. 1/4	4211 5875 80
110 deg angle gear 15 Nm	Angle gear 15Nm 110deg Q-C	ICB-Q21-13 and ICB-Q21-13-HMI	sq. 3/8	4211 5825 80

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Locking ring	Ordering No.
ITB-A31-05-10	14 V & 18 V	1 - 5	2972	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0030 05
ITB-A31-05-10-H	14 V & 18 V	1 - 5	2972	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0034 05
ITB-A31-05-10-HMI	14 V & 18 V	1 - 5	2972	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0031 05
ITB-A31-05-10-HMI-H	14 V & 18 V	1 - 5	2972	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0035 05
ITB-A31-05-I06	14 V & 18 V	1 - 5	2972		2.0	419.6	74.5	90°	-	8436 0030 06
ITB-A31-05-I06-H	14 V & 18 V	1 - 5	2972		2.0	419.6	74.5	90°	-	8436 0034 06
ITB-A31-05-I06-HMI	14 V & 18 V	1 - 5	2972		2.1	419.6	74.5	90°	-	8436 0031 06
ITB-A31-05-I06-HMI-H	14 V & 18 V	1 - 5	2972		2.1	419.6	74.5	90°	-	8436 0035 06
ITB-A31-10-10	14 V & 18 V	3 - 12	1269	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0030 10
ITB-A31-10-10-H	14 V & 18 V	3 - 12	1269	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0034 10
ITB-A31-10-10-HMI	14 V & 18 V	3 - 12	1269	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0031 10
ITB-A31-10-10-HMI-H	14 V & 18 V	3 - 12	1269	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0035 10
ITB-A31-10-I06	14 V & 18 V	3 - 12	1269		2.0	419.6	74.5	90°	-	8436 0030 11
ITB-A31-10-I06-H	14 V & 18 V	3 - 12	1269		2.0	419.6	74.5	90°	-	8436 0034 11
ITB-A31-10-I06-HMI	14 V & 18 V	3 - 12	1269		2.1	419.6	74.5	90°	-	8436 0031 11
ITB-A31-10-I06-HMI-H	14 V & 18 V	3 - 12	1269		2.1	419.6	74.5	90°	-	8436 0035 11
ITB-A31-15-10	14 V & 18 V	5 - 15	944	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0030 15
ITB-A31-15-10-H	14 V & 18 V	5 - 15	944	sq. 3/8	2.0	419.6	74.5	90°	-	8436 0034 15
ITB-A31-15-10-HMI	14 V & 18 V	5 - 15	944	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0031 15
ITB-A31-15-10-HMI-H	14 V & 18 V	5 - 15	944	sq. 3/8	2.1	419.6	74.5	90°	-	8436 0035 15
ITB-A31-15-I06	14 V & 18 V	5 - 15	944		2.0	419.6	74.5	90°	-	8436 0030 16
ITB-A31-15-I06-H	14 V & 18 V	5 - 15	944		2.0	419.6	74.5	90°	-	8436 0034 16
ITB-A31-15-I06-HMI	14 V & 18 V	5 - 15	944		2.1	419.6	74.5	90°	-	8436 0031 16
ITB-A31-15-I06-HMI-H	14 V & 18 V	5 - 15	944		2.1	419.6	74.5	90°	-	8436 0035 16
ITB-A31-20-10	18 V	5 - 22	681	sq. 3/8	2.2	453.5	74.5	90°	-	8436 0030 20
ITB-A31-20-10-H	18 V	5 - 22	681	sq. 3/8	2.2	453.5	74.5	90°	-	8436 0034 20
ITB-A31-20-10-HMI	18 V	5 - 22	681	sq. 3/8	2.3	453.5	74.5	90°	-	8436 0031 20
ITB-A31-20-10-HMI-H	18 V	5 - 22	681	sq. 3/8	2.3	453.5	74.5	90°	-	8436 0035 20
ITB-A61-100-13	36 V	20 - 100	279	sq. 1/2	3.5	540.3	74.5	90°	-	8436 0060 10
ITB-A61-100-13-H	36 V	20 - 100	279	sq. 1/2	3.5	540.3	74.5	90°	-	8436 0064 10
ITB-A61-100-HAD	36 V	20 - 100	279		3.6	541.3	74.5	90°	-	8436 0060 12
ITB-A61-100-13-HMI	36 V	20 - 100	279	sq. 1/2	3.6	540.3	74.5	90°	-	8436 0061 10
ITB-A61-100-13-HMI-H	36 V	20 - 100	279	sq. 1/2	3.6	540.3	74.5	90°	-	8436 0065 10
ITB-A61-100-HAD-HMI	36 V	20 - 100	279		3.7	541.3	74.5	90°	-	8436 0061 12
ITB-A61-150-13	36 V	30 - 160	195	sq. 1/2	4.2	576.5	74.5	90°	-	8436 0060 15
ITB-A61-150-13-H	36 V	30 - 160	195	sq. 1/2	4.2	576.5	74.5	90°	-	8436 0064 15
ITB-A61-150-HAD	36 V	30 - 160	195		4.3	577.2	74.5	90°	-	8436 0060 16
ITB-A61-150-13-HMI	36 V	30 - 160	195	sq. 1/2	4.3	576.5	74.5	90°	-	8436 0061 15
ITB-A61-150-13-HMI-H	36 V	30 - 160	195	sq. 1/2	4.3	576.5	74.5	90°	-	8436 0065 15
ITB-A61-150-HAD-HMI	36 V	30 - 160	195		4.4	577.2	74.5	90°	-	8436 0061 16
ITB-A61-180-13	36 V	35 - 180	165	sq. 1/2	4.2	576	74.5	90°	-	8436 0060 18
ITB-A61-180-13-H	36 V	35 - 180	165	sq. 1/2	4.2	576	74.5	90°	-	8436 0064 18

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Locking ring	Ordering No.
ITB-A61-180-HAD	36 V	35 - 180	165		4.3	577.2	74.5	90°	-	8436 0060 19
ITB-A61-180-13-HMI	36 V	35 - 180	165	sq. 1/2	4.3	576	74.5	90°	-	8436 0061 18
ITB-A61-180-13-HMI-H	36 V	35 - 180	165	sq. 1/2	4.3	576	74.5	90°	-	8436 0065 18
ITB-A61-180-HAD-HMI	36 V	35 - 180	165		4.4	577.2	74.5	90°	-	8436 0061 19
ITB-A61-200-20	36 V	40 - 200	165	sq. 3/4	4.3	578	74.5	90°	-	8436 0060 20
ITB-A61-200-20-H	36 V	40 - 200	165	sq. 3/4	4.3	578	74.5	90°	-	8436 0064 20
ITB-A61-200-HAD	36 V	40 - 200	165		4.3	579.3	74.5	90°	-	8436 0060 21
ITB-A61-200-20-HMI	36 V	40 - 200	165	sq. 3/4	4.4	578	74.5	90°	-	8436 0061 20
ITB-A61-200-20-HMI-H	36 V	40 - 200	165	sq. 3/4	4.4	578	74.5	90°	-	8436 0065 20
ITB-A61-200-HAD-HMI	36 V	40 - 200	165		4.5	578.3	74.5	90°	-	8436 0061 21
ITB-A61-25-10	18 V & 36 V	6 - 28	1294	sq. 3/8	2.3	478	74.5	90°	-	8436 0060 25
ITB-A61-25-10-H	18 V & 36 V	6 - 28	1294	sq. 3/8	2.3	478	74.5	90°	-	8436 0064 25
ITB-A61-25-10-HMI	18 V & 36 V	6 - 28	1294	sq. 3/8	2.4	478	74.5	90°	-	8436 0061 25
ITB-A61-25-10-HMI-H	18 V & 36 V	6 - 28	1294	sq. 3/8	2.4	478	74.5	90°	-	8436 0065 25
ITB-A61-30-10	18 V & 36 V	7 - 35	977	sq. 3/8	2.3	479.5	74.5	90°	-	8436 0060 30
ITB-A61-30-10-H	18 V & 36 V	7 - 35	977	sq. 3/8	2.3	479.5	74.5	90°	-	8436 0064 30
ITB-A61-30-HAD	18 V & 36 V	7 - 35	977		2.9	501.1	74.5	90°	-	8436 0060 32
ITB-A61-30-10-HMI	18 V & 36 V	7 - 35	977	sq. 3/8	2.4	479.5	74.5	90°	-	8436 0061 30
ITB-A61-30-10-HMI-H	18 V & 36 V	7 - 35	977	sq. 3/8	2.4	479.5	74.5	90°	-	8436 0065 30
ITB-A61-30-HAD-HMI	18 V & 36 V	7 - 35	977		3.0	501.1	74.5	90°	-	8436 0061 32
ITB-A61-40-10	18 V & 36 V	8 - 40	977	sq. 3/8	2.5	491.5	74.5	90°	-	8436 0060 40
ITB-A61-40-10-H	18 V & 36 V	8 - 40	977	sq. 3/8	2.5	491.5	74.5	90°	-	8436 0064 40
ITB-A61-40-10-HMI	18 V & 36 V	8 - 40	977	sq. 3/8	2.6	491.5	74.5	90°	-	8436 0061 40
ITB-A61-40-10-HMI-H	18 V & 36 V	8 - 40	977	sq. 3/8	2.6	491.5	74.5	90°	-	8436 0065 40
ITB-A61-50-10	18 V & 36 V	10 - 55	587	sq. 3/8	2.5	491.5	74.5	90°	-	8436 0060 50
ITB-A61-50-10-H	18 V & 36 V	10 - 55	587	sq. 3/8	2.5	491.5	74.5	90°	-	8436 0064 50
ITB-A61-50-HAD	18 V & 36 V	10 - 55	587		3.0	492.5	74.5	90°	-	8436 0060 52
ITB-A61-50-10-HMI	18 V & 36 V	10 - 55	587	sq. 3/8	2.6	491.5	74.5	90°	-	8436 0061 50
ITB-A61-50-10-HMI-H	18 V & 36 V	10 - 55	587	sq. 3/8	2.6	491.5	74.5	90°	-	8436 0065 50
ITB-A61-50-HAD-HMI	18 V & 36 V	10 - 55	587		3.1	492.5	74.5	90°	-	8436 0061 52
ITB-A61-70-13	36 V	15 - 80	424	sq. 1/2	3.0	503.3	74.5	90°	-	8436 0060 70
ITB-A61-70-13-H	36 V	15 - 80	424	sq. 1/2	3.0	503.3	74.5	90°	-	8436 0064 70
ITB-A61-70-13-HMI	36 V	15 - 80	424	sq. 1/2	3.1	503.3	74.5	90°	-	8436 0061 70
ITB-A61-70-13-HMI-H	36 V	15 - 80	424	sq. 1/2	3.1	503.3	74.5	90°	-	8436 0065 70
ITB-A61-40-FS	18 V & 36 V	8 - 40	977		2.5	491.5	74.5	90°	-	8436 0060 41
ITB-A61-50-FS	18 V & 36 V	10 - 55	587		2.5	491.5	74.5	90°	-	8436 0060 51
ITB-A61-70-FS	36 V	15 - 80	424		3.0	503.3	74.5	90°	-	8436 0060 71
ITB-A61-100-FS	36 V	20 - 100	279		3.5	540.3	74.5	90°	-	8436 0066 10
ITB-A61-150-FS	36 V	30 - 160	195		4.2	576.5	74.5	90°	-	8436 0066 15
ITB-A61-180-FS	36 V	35 - 180	165		4.2	576	74.5	90°	-	8436 0066 18
ITB-A61-200-FS	36 V	40 - 200	165		4.3	578	74.5	90°	-	8436 0066 20

FS = flush socket angle head

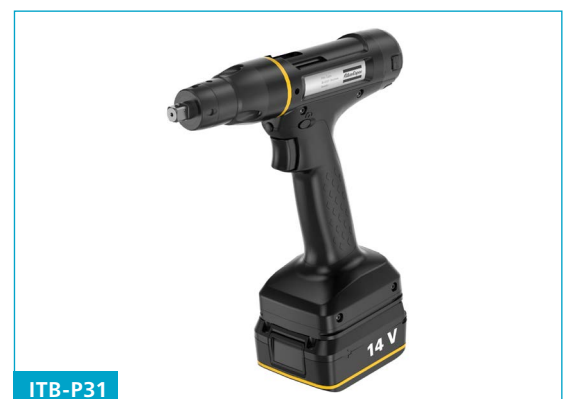
HMI = Tool display

ITB - A / ITB - S / ITB - P

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Locking ring	Ordering No.
ITB-A61-40-FS-HMI	18 V & 36 V	8 - 40	977		2.6	491.5	74.5	90°	-	8436 0061 41
ITB-A61-50-FS-HMI	18 V & 36 V	10 - 55	587		2.6	491.5	74.5	90°	-	8436 0061 51
ITB-A61-70-FS-HMI	36 V	15 - 80	424		3.1	503.3	74.5	90°	-	8436 0061 71
ITB-A61-100-FS-HMI	36 V	20 - 100	279		3.6	540.3	74.5	90°	-	8436 0067 10
ITB-A61-150-FS-HMI	36 V	30 - 160	195		4.3	576.5	74.5	90°	-	8436 0067 15
ITB-A61-180-FS-HMI	36 V	35 - 180	165		4.3	576	74.5	90°	-	8436 0067 18
ITB-A61-200-FS-HMI	36 V	40 - 200	165		4.4	578	74.5	90°	-	8436 0067 20
FS = flush socket angle head										

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Ordering No.
ITB-S31-05-10	14 V & 18 V	1 - 5	3529	sq. 3/8 in	2.1 kg	427	74.5	straight	8436 0130 05
ITB-S31-10-10	14 V & 18 V	3 - 10	1508	sq. 3/8 in	2.1 kg	427	74.5	straight	8436 0130 10
ITB-S61-20-10	18 V	5 - 22	1511	sq. 3/8 in	2.3 kg	477	74.5	straight	8436 0161 20
ITB-S61-30-10	18 V	7 - 35	907	sq. 3/8 in	2.4 kg	468	74.5	straight	8436 0161 30
ITB-S61-50-13	18 V & 36 V	10 - 55	656	sq. 1/2 in	2.8 kg	512	74.5	straight	8436 0161 50
ITB-S61-70-13	36 V	15 - 80	448	sq. 1/2 in	3.2 kg	529	74.5	straight	8436 0161 70
ITB-S61-90-13	36 V	18 - 95	352	sq. 1/2 in	3.2 kg	529	74.5	straight	8436 0161 90
ITB-S61-120-13	36 V	36 - 120	307	sq. 1/2 in	3.2 kg	529	74.5	straight	8436 0160 12
ITB-S61-120-13-HMI	36 V	36 - 120	307	sq. 1/2 in	3.3 kg	529	74.5	straight	8436 0161 12

Model	Battery V	Torque range Nm	Max speed rpm	Output shaft type In	Weight incl battery kg	Length mm	Width mm	Angle head	Ordering No.
ITB-P31-06-I06	14 V & 18 V	1.2 - 6	1990	1/4 in	1.5 kg	209.4	74.5	Pistol	8436 0130 08
ITB-P31-06-10	14 V & 18 V	1.2 - 6	1990	sq. 3/8 in	1.5 kg	209.4	74.5	Pistol	8436 0130 07
ITB-P31-12-I06	14 V & 18 V	2.4 - 12	1480	1/4 in	1.5 kg	209.4	74.5	Pistol	8436 0130 14
ITB-P31-12-10	14 V & 18 V	2.4 - 12	1480	sq. 3/8 in	1.5 kg	209.4	74.5	Pistol	8436 0130 13



TENSOR ITB ACCESSORIES

EHMI for Tensor ITB	Ordering No.
Fits all ITB-A and ITB-S	8436 6199 73

Small (S) ITB-A <50 Nm, ITB-S <30 Nm.

Large (L) ITB-A >70 Nm, ITB-S >50 Nm.

EHMI for Tensor ITB	Position/Size	Ordering No.
Dual trigger for open end	Top	
	S	8436 6199 10
	L	8436 6199 12
Dual trigger for open end 135°	Lower	
	S	8436 6199 20
	L	8436 6199 22
Front button	Top	
	S	8436 6199 30
	L	8436 6199 32
Adjustable headlights	Lower	
	S	8436 6199 40
	L	8436 6199 42
Barcode scanner	Top	
	S	8436 6199 00
	L	8436 6199 02
Scanner 2D and tag U D4, 2-in-1	Top	
	S	8433 5050 10
	L	8433 5050 11
Mounting rings	Top	
	S	8436 6199 50
	L	8436 6199 52
Mounting rings	Lower	
	S	8436 6199 60
	L	8436 6199 62



IxB ACCESSORIES

BATTERIES AND COVERS

Type	Material name	Weight Kg	Ordering No.
Tool protective covers			
ICB angle head and foot protective covers	Prot Kit ICB-7		
ICB angle head and foot protective covers	Prot Kit ICB-7-HMI		4220 2744 13
ICB angle head and foot protective covers	Prot Kit ICB-15		4220 2744 22
ICB angle head and foot protective covers	Prot Kit ICB-15-HMI		4220 2744 23
ITB angle head rubber covers	*same as for STR tools		
ITB foot cover	Protective cover		4211 6203 00
Isolated Tool covers			
Insulated cover for ICB-A21-15	Ins cover ICB-A21-15		4220 2744 62
Insulated cover for ITB-A61-70	Ins cover ITB-A61-70		4220 2744 59
Insulated cover for ITB-A61-50	Ins cover ITB-A61-50		4220 2744 57
Insulated cover for ITB-A61-30	Ins cover ITB-A61-30		4220 2744 51
Insulated cover for ITB-A31-15	Ins cover ITB-A31-15		4220 2744 53
Insulated foot cover for ICB-A21-15 (for 14V battery)	Ins foot cover ICB-A21-15		4220 2744 80
Insulated foot cover for ICB-A21-15 (for 18V battery)	Ins foot cover ICB-A21-15		4220 2744 81
Insulated foot cover for ITB-A61-50	Ins foot cover ITB-A61-50		4220 3888 82
Insulated foot cover for ITB-A61-30	Ins foot cover ITB-A61-30		4220 3888 82
Insulated foot cover for ITB-A31-15	Ins foot cover ITB-A31-15		4220 3888 82
Battery and charger			
Flex Charger	Flex charger		4211 6083 84
Battery	14V Battery	0,365	4211 6130 02
Battery	18V Battery	0,5	4211 6030 85
Battery	36V Battery	0,8	4211 6130 14
Battery protective covers			
14V battery cover			4211 5730 25

SUMMARY OF IxB AND BATTERY RECOMMENDATION

Battery	Recommendation
OK	Recommended
NR (1)	Not recommended. Might not reach max torque.
NR (2)	Not recommended. Might affect ergonomics.
NOK	Not technically possible.

ITB-A Models														
Battery	ITB-A31-05	ITB-A31-10	ITB-A31-15	ITB-A31-20	ITB-A61-25	ITB-A61-30	ITB-A61-40	ITB-A61-50	ITB-A61-70	ITB-A61-90	ITB-A61-100	ITB-A61-150	ITB-A61-180	ITB-A61-200
14 V	OK	OK	OK	NR (1)	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK	NOK
18 V	OK	OK	OK	OK	OK	OK	OK	OK	NR (1)	NR (1)	NR (1)	NOK	NOK	NOK
36 V	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

ICB-A Models			
Battery	ICB-21-07	ICB-A21-15	ICB-A21-20
14 V	OK	OK	OK
18 V	OK	OK	OK
36 V	NR (2)	NR (2)	NR (2)



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Low Torque Tools



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LOW TORQUE CLUTCH TOOLS

EBL are clutch electric screwdrivers designed for low torque applications, brushless motor combined with proven clutch delivers the best for less complex assembly process. Featuring superior ergonomics and the latest technology, EBL screwdriver is setting new standards for electric low-torque screwdrivers.

A brushless motor provides long working life, extended service intervals and low maintenance requirements. Good ergonomics mean maximum operator comfort: comfortable grip, low tool weight and lower noise level due to the brushless motor. Reporting tool models have a batch count feature that ensures that all screws have been tightened. Soft-stop feature on certain models prevents damage to sensitive electronics and plastic assembly components.

PRODUCT PORTFOLIO - EBL



Straight handheld



Pistol grip



Angle shape

Main technical parameters:

Accuracy:	±10 % acc. ISO 5393
Torque Range:	0,05 – 5,5 Nm
Speed:	600 – 1500 RPM (HI/LO speed setup)
Connectivity	Only I/O - OK signal
Remote start	No
Number of tightening programs	1
Target parameters	Torque only mechanical clutch
Control parameters	No
Results memory	No

FEATURES

- OK, Batch OK
- Vacuum pick-up control
- Soft stop to protect sensitive components
- Tightening blocking, tightening allowing
- HI/LO speed setup
- ESD and UL certified
- Push-to-Start or Lever start configurable

BENEFITS

- Brushless motor
- Simple tool, easy to install and operate
- Low cost solution for basic applications
- No need of compressed air compared to pneumatic screwdrivers

WHERE TO USE

Tightening screws on non-critical applications - missing screw or wrong tightening is affordable (for example no impact on safety, or function of final product).

Model	Screw capacity	Torque range soft joint		Free speed r/min	Weight		Length mm	Bit drive	Ordering No.
		Nm	ft lb		kg	lb			
Standard models									
EBL03	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	Wing type 4 mm	8431 0170 02
EBL03-Q	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	1/4" Hex	8431 0170 04
EBL12	M2-3	0.2-1.2	1.8-10.6	910	0.5	1.1	215	1/4" Hex	8431 0170 11
EBL12-1500	M2-3	0.2-1.2	1.8-10.6	1500	0.5	1.1	215	1/4" Hex	8431 0170 4
EBL20	M2-3	0.5-2.0	4.5-18	750	0.5	1.1	215	1/4" Hex	8431 0170 16
EBL21-1500	M2-3	0.5-2.1	4.5-19	1500	0.8	1.8	235	1/4" Hex	8431 0170 43
EBL25	M2.5-4	1.0-2.5	8.8-22.1	930	0.8	1.8	235	1/4" Hex	8431 0170 23
EBL25-1500 *a	M2.5-4	1.0-2.5	8.8-22.1	1500	0.8	1.8	235	1/4" Hex	8431 0170 25
EBL35	M2.5-4	1.0-3.5	8.8-31	700	0.8	1.8	235	1/4" Hex	8431 0170 33
EBL45 *c	M2.5-5	1.0-4.5	8.8-40	700	0.8	1.8	235	1/4" Hex	8431 0170 40
EBL55 *c	M2.5-5	1.0-5.5	8.8-48	600	0.8	1.8	235	1/4" Hex	8431 0170 44
Soft-stop models									
EBL03-SS	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	Wing type 4 mm	8431 0170 07
EBL12-SS	M2-3	0.2-1.2	1.8-10.6	910	0.5	1.1	215	1/4" Hex	8431 0170 15
EBL20-SS	M2-3	0.5-2.0	4.5-18	750	0.5	1.1	215	1/4" Hex	8431 0170 20
EBL25-SS	M2.5-4	1.0-2.5	8.8-22.1	930	0.8	1.8	235	1/4" Hex	8431 0170 28
EBL35-SS	M2.5-4	1.0-3.5	8.8-31	700	0.8	1.8	235	1/4" Hex	8431 0170 38
Reporting models									
EBL03-RE	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	Wing type 4 mm	8431 0170 55
EBL03-Q-RE	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	1/4" Hex	8431 0170 06
EBL12-RE	M2-3	0.2-1.2	1.8-10.6	910	0.5	1.1	215	1/4" Hex	8431 0170 13
EBL12-1500-RE	M2-3	0.2-1.2	1.8-10.6	1500	0.5	1.1	215	1/4" Hex	8431 0170 18
EBL20-RE	M2-3	0.5-2.0	4.5-18	750	0.5	1.1	215	1/4" Hex	8431 0170 19
EBL21-1500-RE	M2-3	0.5-2.1	4.5-19	1500	0.8	1.8	235	1/4" Hex	8431 0170 47
EBL25-RE	M2.5-4	1.0-2.5	8.8-22.1	930	0.8	1.8	235	1/4" Hex	8431 0170 26
EBL25-1500-RE*b	M2.5-4	1.0-2.5	8.8-22.1	1500	0.8	1.8	235	1/4" Hex	8431 0170 22
EBL35-RE	M2.5-4	1.0-3.5	8.8-31	700	0.8	1.8	235	1/4" Hex	8431 0170 36
EBL45-RE*d	M2.5-5	1.0-4.5	8.8-40	700	0.8	1.8	235	1/4" Hex	8431 0170 42
EBL55-RE*d	M2.5-5	1.0-5.5	8.8-48	600	0.8	1.8	235	1/4" Hex	8431 0170 45
Soft-stop reporting models									
EBL03-SS-RE	M1-2	0.05-0.3	0.4-2.7	870	0.3	0.7	185	Wing type 4 mm	8431 0170 08
EBL12-SS-RE	M2-3	0.2-1.2	1.8-10.6	910	0.5	1.1	215	1/4" Hex	8431 0170 17
EBL20-SS-RE	M2-3	0.5-2.0	4.5-18	750	0.5	1.1	215	1/4" Hex	8431 0170 21
EBL25-SS-RE	M2.5-4	1.0-2.5	8.8-22.1	930	0.8	1.8	235	1/4" Hex	8431 0170 29
EBL35-SS-RE	M2.5-4	1.0-3.5	8.8-31	700	0.8	1.8	235	1/4" Hex	8431 0170 39

*a EBL 25-1500 to be used with EBL Drive Plus.

*b EBL 25-1500-RE to be used with EBL Drive Plus and EBL RE Module.

*c EBL 45, 55 to be used with EBL Drive Plus.

NOTE: Max torque reduced to 80% when run on slow speed and soft joints.

*d EBL 45-RE and EBL 55-RE to be used with EBL Drive Plus and EBL RE module.

NOTE: Max torque reduced to 80% when run on slow speed and soft joints

All tools models, drives and cables are ESD and UL certified.

Tool box include cable for drive connection (standard models with 5 pins cable and reporting models with 6 pins cable).

All the models are push-to-start or lever start configurable.

EBL ACCESSORIES

Model	Ordering No.
Vacuum pick-up accessories (not ESD approved)	
Vacuum pump – 220V	4220 0062 00
Vacuum pump – 115V	4220 0062 05
Nozzle blank Ø 8 mm for EBL 03	4220 0067 03
Nozzle blank Ø 8 mm for EBL 12, 20, 21, 25, 35	4220 0070 03
Nozzle blank Ø 14 mm for EBL 12, 20, 21, 25, 35	4220 0072 03
Vacuum pick-up adapter for EBL 03	4220 0080 30
Vacuum pick-up adapter for EBL 12, 20	4220 0080 31
Vacuum pick-up adapter for EBL 21, 25, 35	4220 0080 33
Cables (not ESD approved)	
Spiral cable, 1.3 m (5 pin)	4220 0347 00
Spiral cable, 1.3 m (6 pin)	4220 0349 00
Heavy duty, cable 2.0 m (5 pin)	4216 0132 00
Heavy duty, cable 2.0 m (6 pin)	4216 0133 00
Cables (ESD approved)	
Extension cable *b 3.0 m (5 pin)	4220 0138 01
Extension cable *b 3.0 m (6 pin)	4216 0115 00
*b Maximum total length 8 m.	
Screw dispenser	
SDS Screw dispenser	
Pistol grip (ESD approved)	
EBL 12, 20	
EBL 21, 25, 35, 45, 55	
Angle head	
Front part square drive 1/4" (06)	
Hex bit drive 1/4" (42)	
Hex quick change 1/4" (Q)	
Adapter	
Adapter EBL 12, 20	
Adapter EBL 21/25/35/45/55	
Both angle head and adapter needs to be ordered for mounting on EBL.	



Vacuum pick-up system



Screw dispenser

LOW TORQUE CONTROLLERS - EBL DRIVE

EBL Drive

Drive module for EBL tools. Available in three versions:

- EBL Drive - For standard tools and soft-stop tools
- EBL RE - Drive - For reporting tools and soft-stop tools + reporting tools
- EBL Drive Plus - For all standard tools, soft-stop tools and special tools
- EBL RE module - To be connected between EBL Drive or EBL Drive Plus and RE tools

PRODUCT PORTFOLIO - EBL DRIVES AND RE MODULE



EBL Drive



EBL RE-Drive



EBL Drive Plus



EBL RE module

Model	Ordering No.
Drives	
EBL Drive (For standard models and soft-stop models)	8431 0170 70
IAM MT Workstation	8432 0852 10
IAM MT Process	8432 0852 20
EBL RE-Drive (For reporting models and soft-stop + reporting models)	8431 0170 75
EBL Drive Plus (For all standard models and soft-stop models)	8431 0170 85
EBL Drive Plus is required for EBL25-1500, EBL25-1500-RE, EBL45, EBL45-RE, EBL55 and EBL55-RE	
EBL reporting module	
EBL RE module	8431 0170 76
RE module to be connected between EBL Drive or EBL Drive Plus and RE tool.	

MICRO TORQUE TOOLS (TRANSDUCERIZED AND NON-TRANSDUCERIZED)

MicroTorque screwdriver range is the advanced and intelligent tightening solution for low torque applications. It excels in ergonomics, compactness and amount of functions designed for low torque applications.

Optimized tools and controller size to fit usual electronics assembly line. Equipped with remote communication standards for robotic or semi-automatic integration. Build with easy use in mind for maintenance crew and production engineers as well as operators.

Designed for production of mobile phones, electronics, medical devices and other fine and sensitive products with smallest screws.

PRODUCT PORTFOLIO - MICROTORQUE TOOLS



Fixtured current controlled



Handheld current controlled



Handheld transducerized

Main technical parameters:

Accuracy:	Current control +/- 7,5% according ISO5393 Transducer control +/- 5% according ISO5393
Torque Range:	0,01 N.m - 2,5 N.m
Speed:	0 - 2000 rpm possible change during operation
Connectivity	USB, Ethernet, Fieldbus, digital I/O
Remote start	Yes
Number of tightening programs	Standard 150 (or up to 999 for special robotic applications)
Target parameters	Torque, angle Dynamic strategies based on actual characteristic of respective joint – seating strategy
Control parameters	Torque, angle (rotation), speed, seating point
Results memory	100 000 results 1 000 graphs

FEATURES

- ESD & Clean room assembly certification
- Push-To-Start, Trigger start & Remote start alternatives
- Easy configuration software
- Multi-step tightening
- Simplified operator guidance / assembly process control
- Smart tightening strategies (Seating control – Clamp torque assurance)
- Errors detections (Bit slip, Damaged thread, Re-hit, ...)
- Barcode & RFID readers for direct connection
- Detailed data results stored in the controller
- Real-time traces
- TN8 compatible (reporting all results, identifiers and curves to server based data collection system)
- Remote configuration via LAN
- User rights for different access levels

BENEFITS

- Error-proofing
- Operators feedback & ergonomics
- Traceability
- Connectivity
- Efficiency
- Integration & Automation
- Seating strategy

Seating strategy:

Tightening strategy developed to control clamping force instead of torque so it compensates and dynamically responds on variations in production and in material characteristics. Target is maximizing joint and product quality.

WHERE TO USE

- Handheld and Fixtured low-torque applications up to 2,5 Nm
- Applications with medium or high demands
- Semi-automatic, Automatic and Robotic stations
- Intended also for Quality and Safety critical joints
- Typical for electronics products assembly (mobile phones, medical devices, automotive electronics components,...)
- Tuned also for tightening in plastics and multi-stacks with different layers of material

ETD AND QMC

Model	Torque range soft joint		Speed r/min	Length mm	Overall width mm	Weight		Bit drive	Ordering No.
	cNm	in lb				kg	lb		
Hand-held current controlled, without push-to-start									
ETD M 08 ABL V2	2-8	0.18-0.7	1350	185	29	0.30	0.66	HM 4 mm	8432 0815 18
ETD M 20 ABL V2	5-20	0.44-1.77	900	185	29	0.30	0.66	HM 4 mm	8432 0815 21
ETD M 27 ABL V2	7.5-27	0.66-2.4	900	185	29	0.30	0.66	HM 4 mm	8432 0815 27
Hand-held current controlled, push-start configurable									
ETD M 50 ABL V2	15-50	1.33-4.4	1000	238	36	0.61	1.37	HM 4 mm	8432 0815 50
ETD M 80 ABL V2	20-80	1.77-7.1	1100	238	36	0.61	1.37	HM 4 mm	8432 0815 80
ETD M 120 ABL V2	30-120	2.7-10.6	900	240	43	0.65	1.43	1/4" Hex	8432 0815 82
ETD M 200 ABL V2	50-200	4.42-17.7	700	240	43	0.65	1.43	1/4" Hex	8432 0815 84
ETD M 250 ABL V2	75-250	6.64-22.13	700	240	43	0.65	1.43	1/4" Hex	8432 0815 86
NOTE: Ordering number for screwdriver only. Tool cable, controller and PSU need to be ordered separately.									
Fixtured current controlled									
QMC21-05-HM4 *a	1.2-5	0.11-0.44	2000	123	57	0.2	0.44	HM 4mm	8432 0844 05
QMC21-10-HM4	3-10	0.27-0.89	2000	178	57	0.3	0.66	HM 4mm	8432 0844 10
QMC21-25-HM4	5.5-25	0.49-2.2	1000	178	57	0.3	0.65	HM 4mm	8432 0844 25
QMC41-50-HM4	12.5-50	1.1-4.4	2000	200	66	0.6	1.32	HM 4mm	8432 0844 52
QMC41-100-HM4	25-100	2.2-8.9	2000	200	66	0.6	1.32	HM 4mm	8432 0844 53
QMC41-50-I06	12.5-50	1.1-4.4	2000	205	66	0.61	1.36	1/4" Hex	8432 0844 61
QMC41-100-I06	25-100	2.2-8.9	2000	205	66	0.61	1.36	1/4" Hex	8432 0844 62
QMC41-150-I06	37.5-150	3.3-13.3	1000	213	66	0.625	1.38	1/4" Hex	8432 0844 63
QMC41-250-I06	62.5-250	5.5-22.1	750	224	66	0.650	1.43	1/4" Hex	8432 0844 64
*a Only compatible with MTF6000.									
NOTE: Ordering number for screwdriver only. Tool cable, controller and PSU need to be ordered separately.									
Soft-stop reporting models									
ETD MT 21-25-HM4	5-25	0.44-2.21	1000	226	32	0.35	0.77	HM 4 mm	8432 0845 25
ETD MT 41-50-HM4	10-50	0.9-4.4	2000	248	34	0.60	1.32	HM 4 mm	8432 0845 50
ETD MT 41-100-HM4	20-100	1.8-8.9	2000	248	34	0.60	1.32	HM 4 mm	8432 0845 60
ETD MT 41-50-I06	10-50	0.9-4.4	2000	254	34	0.65	1.43	1/4" Hex	8432 0845 51
ETD MT 41-100-I06	20-100	1.8-8.9	2000	254	34	0.65	1.43	1/4" Hex	8432 0845 61
ETD MT 41-150-I06	30-150	2.7-13.3	1000	254	34	0.65	1.43	1/4" Hex	8432 0845 70
ETD MT 41-250-I06	50-250	4.4-22.1	750	254	34	0.65	1.43	1/4" Hex	8432 0845 80

ETD AND QMC ACCESSORIES

Power supply unit, MTF 6000	Battery power	Ordering No.
ETD M ABL V2 and QMC, all tools	36V / 180W	8432 0840 02

Power supply unit, MTF 6000	Ordering No.
Controller wall fixture for MTF 6000	8432 0833 83
Y cable for I/O connector *a	8432 0831 99
I/O extension cable 1 m	4216 1933 80
I/O adapter cable *b	4216 2665 80
Bit magnet 1/4 for Hex bits, 5 pieces	8432 0861 02
Bit magnet 4 mm for HM4 bit, 5 pieces	8432 0861 05
*a Y cable for MTF6000 and G4, suitable when two I/O accessories are required.	
*b Used when MTF6000 shall be connected to a MTF400 I/O system.	

Tool cable	Length	Ordering No.
ETD M ABL V2 and QMC, all tools	36V / 180W	8432 0840 02
QMC, ETD M ABL V2, ETF S	2 m	8432 0835 20
QMC, ETD M ABL V2, ETF S	3.5 m	8432 0835 35
QMC, ETD M ABL V2, ETF S	5 m	8432 0835 50
ETF M, MT	2 m	8432 0836 20
ETF M, MT	3.5 m	8432 0836 35
ETF M, MT 90 deg angle cable	2 m	8432 0831 15

Cable accessories	Ordering No.
Cable, USB	4222 1238 02
Cable RS232	4216 2174 80
Transducer cable	8432 0830 35
Cable bracket	8432 0830 91



Power supply unit



Digital program selector



Tool cable, 90 deg



Tool cable

MICRO TORQUE ACCESSORIES

Vacuum pump	Ordering No.
Vacuum pump MT	8432 0854 00

Model	Nozzle Ø mm	Tool Bit Drive	Tool model	Ordering No.
QC Vacuum adapter Small	8	HM4	ETD M, ETF S, ETF M, ETF MT and QMC	8432 0770 58
QC Vacuum adapter Large	12	1/4" HEX	ETD M and QMC	8432 0770 57
QC Vacuum adapter Large	12	1/4" HEX	ETF M100, ETF MT100, ETF M200 and ETF MT200	8432 0770 59
QC Vacuum adapter	5.8	HM4	ETD MT	8432 0770 60
QC Vacuum adapter	9.8	1/4" HEX	ETD MT	8432 0770 61

Model	Nozzle Ø mm	Tool Bit Drive	Ordering No.
Plastic nozzle			
	8	HM4	4216 1190 16
	12	1/4" HEX	4216 1190 20
	5.8	HM4	4216 2912 00
	9.8	1/4" HEX	4216 2936 00
Metallic nozzle			
	8	HM4	4216 1190 17
	12	1/4" HEX	4216 1190 21
	5.8	HM4	4216 4257 00
	9.8	1/4" HEX	4216 4257 01

Model	Screw size	Ordering No.
Screw dispenser for magnetized bit		
SDS screw dispenser	M1.0 - 5.0	8432 0830 00
Screw dispenser for vacuum pick up		
SDS SR 10	M1.0	8432 0870 30
SDS SR 12	M1.2	8432 0870 32
SDS SR 14	M1.4	8432 0870 34
SDS SR 17	M1.7	8432 0870 31
SDS SR 20	M2.0	8432 0870 33
SDS SR 23	M2.3	8432 0870 35
SDS SR 26	M2.6	8432 0870 36
SDS SR 30	M3.0	8432 0870 37



Vacuum pump MT



Vacuum adapter



Vacuum adapter for ETD MT



Vacuum nozzles



Screw dispenser for magnetic bit



Screw dispenser for vacuum pick up

MICRO TORQUE CONTROLLER

MT Focus 6000 is the latest and most innovative controller from MicroTorque. It elevates the Atlas Copco’s low torque tightening and is designed for Industry 4.0.

MT Focus 6000 is smart with new advanced tightening strategies such as Torque Seating Monitoring. With Batch Sequence it is easy to setup simple workflow instructions to ensure efficiency, and the multi communication ports ensures connectivity with external equipment and software.

The IAM model give a good offering for every customer. IAM Workstation is designed for a workstation setup with no or low need for advanced tightening strategies and communication. For processes, with a need of communication, data and advanced tightening strategies, IAM Process is the right choice.

PRODUCT PORTFOLIO



Model	Ordering No.
MTF 6000	8432 0851 00
NOTE: Ordering number for controller only. PSU and IAM Module (for MTF6000) has to be ordered separately.	
IAM for MTF 6000	
IAM MT Workstation	8432 0852 10
IAM MT Process	8432 0852 20

MICRO TORQUE CONTROLLER

MTF 6000

Model	IAM MT Workstation	IAM MT Process
Tightening		
Number of Psets	50	150
Multi step tightening	•	•
Number of tightening steps	5	10
Number of batch sequence	20	50
Batch sequence - Batch count	250	250
Batch sequence - Steps	30	30
Number of identifiers	20	50
Torque and angle control	•	•
Thread engagement step	•	•
Angle step	•	•
Torque step	•	•
Seating control strategy (SCS)		•
Torque seating monitoring (TSM)		•
Bit slip detection		•
Data storage and analysis		
Detailed data results stored in the controller	•	•
Results - Data storage	100000	100000
Graphs - Data storage		1000
Download results data via USB memory	•	•
Download graphs data via USB memory		•
Realtime trace analysis - ToolsTalk (USB only)	•	•
Save graphs via ToolsTalk Analysis (USB)		•
Auto save graph via ToolsTak Analysis (USB Only)	•	•
ToolsNet 8 data reporting		•
Communication		
Configurable Digital I/Os	•	•
Number of digital I/Os (in/out)	(12/8)	(12/8)
Open Protocol (MicroTorque Legacy)		
Open Protocol (Atlas Copco V2)		RS232, Ethernet
Direct communication with ToolsNet 8		•
Others		
Transducerized tools		•
Barcode reader	•	•
Quick programming	•	•
Password protection	•	•
Customized 3 levels of password protection	•	•
Remote configuration via Ethernet		•
Ports (hardware only - not functionality)		
RS232	1	1
Fieldbus	1	1
USB device	1	1
USB host	1	1
I/O Bus	1	1
Ethernet	1	1
Digital I/Os	(12/8)	(12/8)

Atlas Copco



Handheld Cable Tools



Scan to
know more

HANDHELD CABLE TOOLS

Main technical parameters:

Accuracy:	± 5 % according to ISO 5393
Torque Range:	Angle Tools (ETV): 1 - 4000 Nm Straight Tools (ETD): 0.8 – 4000 Nm Pistol Tools (ETP): 0.8 - 8000 Nm
Speed:	Angle Tools up to 3070 rpm; Straight Tools: up to 4471 rpm; Pistol Tools: up to 4471 rpm; *Speed during free running
Connectivity	USB, Open Protocol, Digital I/O, FieldBus
Virtual Station types	Joint Control, Station Control, Critical Control, Process Control
Tightening programs	Up to 1000 Psets; Up to 250 Batch sequences; Multistep
Target parameters	Torque, angle, based on actual joint characteristics – seating strategy, yield strategies
Control parameters	Torque, angle (rotation), speed, yield point, tool movement (TrueAngle)
Results memory	10 000 results 10 000 graphs

FEATURES

- Durable motors with higher speeds
- Advanced tightening strategies
- Gradient monitoring – seating strategy
- Supports multistep strategy
- Full traceability
- Industry 4.0 ready
- Wide range of tool accessories
- Powered by Power Focus 6000 or Power Focus 8
- Built in gyroscope to detect operators influence on tightening (STR tools)

BENEFITS

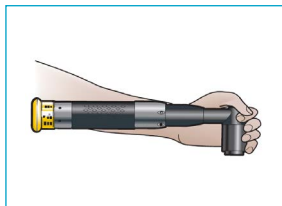
- High productivity
- Smart flexibility (by using virtual stations). Makes rebalancing easier
- Easier joint accessibility with different gear front attachments as an option
- Improved ergonomics with Low Reaction Tool (LRT) strategies
- Fast and easy tool management (modern & user-friendly SW)
- Reduction of defects and repairs (advanced tightening strategies, error-proofing)
- Excellent operator feedback
- TrueAngle functionality improves tightening quality (STR tools)

PRODUCT SAFETY

SAFETY GUIDELINES

At Atlas Copco we want you to operate our tools safely. Always read and follow all operating and safety instructions, and comply with local safety regulations. There is a range of accessories for Atlas Copco tools. They are intended to reduce the risk of injury during certain assembly processes.

HOW TO MAKE TOOL OPERATION SAFER



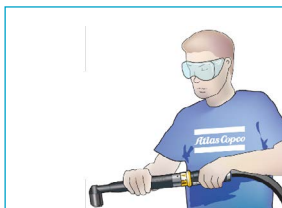
ENTANGLEMENT HAZARD

- Hands and other objects (long hair, necklaces etc.) can get entangled with the rotating drive, causing severed or broken fingers.
- Do not use gloves.
- Never hold the drive, socket or extension with your hands



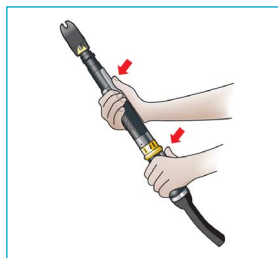
REACTION BAR

- When a reaction bar is used, keep hands away from the reaction bar while tightening a joint, otherwise hands may get squeezed.



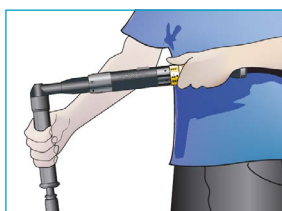
HOLD THE TOOL CORRECTLY

- Keep hands and other objects (long hair, necklace, etc.) away from the rotating drive, socket or extension.
- Hold the tool correctly with one hand on the handle of the tool and the other hand on the top of the angle head.



OPEN END TOOLS

- Never put your finger into the open end of a tool, even if a dual action trigger is used.
- To avoid accidents, to activate the tool, both triggers must be pressed within 500 ms.

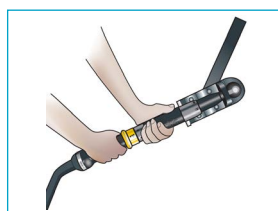


SUPPORTED EXTENSIONS

- If you use an extension, never hold the extension with your hand while it is rotating. If you need to guide the extension, in order to locate the socket quickly and accurately, use an accessory to reduce the risk of entanglement.

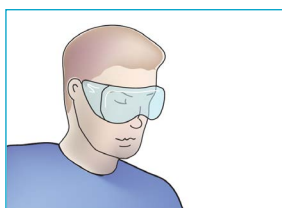
Other advantages are:

1. Longer life for angle gear.
2. More uniform tightening results.



ANGLE NUTRUNNERS WITH REACTION BAR

- Use reaction bar at high torque. For soft joints, a reaction bar should be used at >60 Nm.results.



USE GOGGLES

- Always use approved safety goggles to protect your eyes from objects that might accidentally fly into your face.



SCREWDRIVERS

- Consider using a support handle or support arms, particularly for straight versions and for torques of 6 Nm and upwards.

HANDHELD CABLE TOOLS

TENSOR - THE OPERATOR'S CHOICE

The Tensor range of electric assembly tools covers all station and assembly line requirements for safety critical and quality critical fastening applications. At Atlas Copco we have a proud legacy of putting the operator first and we continuously improve the ergonomic features on each new generation of Tensor tools. Tensor is also one of the most advanced tool ranges on the market in terms of high power-to-weight ratios and operator guidance in the form of clear result feedback via LED's or audio signals.

HIGHEST PRODUCTIVITY WITH LOWEST LIFE-CYCLE COST

Atlas Copco supplies a comprehensive range of high productivity assembly tools with intelligent controllers and a sharp focus on ergonomics. Our many product lines were developed to meet all your tightening needs and give you lowest life cycle cost. Products range from low torque MicroTorque tools providing 0.01 Nm of torque, to high torque Tensor ST tools, offering up to 4,000 Nm.

The Tensor tool range covers all assembly requirements for safety critical and quality critical applications.

Tensor ES: Tensor ES transducerized tools for quality critical applications are available in straight, right angle and pistol grip versions. All models have a sealed design for robustness and offer high productivity with improved ergonomics.

Tensor SL: Tensor SL transducerized tools are available in straight, right angle and pistol grip versions, with a straight model for fixtured applications that is very light and compact. Suitable for low torque safety critical applications. The Tensor SL range is ESD certified and has configurable tool functions. All the tools offer high power-to-weight ratios, good ergonomic designs and clear operator feedback via LED's lights and buzzers (depending on the model).

Tensor ST: The second generation of Tensor tools was developed with the focus on reducing tool weight and increasing productivity. Tensor ST has an internal bus connection for intelligent accessories such as a barcode reader and P-selector switch. The Tensor ST range is suitable for safety critical applications and has configurable tool functions.

Tensor STR: Tensor STR transducerized tools are available in straight, right angle and pistol grip versions. Suitable for safety critical applications. The angle models carries a gyro which can sense the tool movement in order to detect and control the TrueAngle. This makes the tool range less operator dependent. Tensor STR has two internal bus connections to mount dual accessories on tool. Also a Pset Selector and Display can be mounted as an option. Tensor STR angle and straight tools are IP54 certified for protection against dust and water.

Tensor SR: ESD certified, Tensor SR angle tools are fast, compact and easy to operate. They feature an easy-to-configure function button and front LED's for clear operator feedback. With a push-to-start mechanism and an integrated front guide light, SR straight tools are suitable for both hand-held and fixtured applications.



Atlas Copco offers ESD certified tools in the standard range of screwdriver models most frequently used in the electronics industries. ESD certification means a guarantee against damage of electronic components by an uncontrolled electrostatic discharge (ESD) from the tools.

Conformity to the requirements of IEC 61340-5-1 standard proposal is approved by SP, the Swedish National Testing and Research Institute. In practice it certifies that at no point will the material of the equipment hold an electrostatic potential above 100 V for more than 2 seconds.

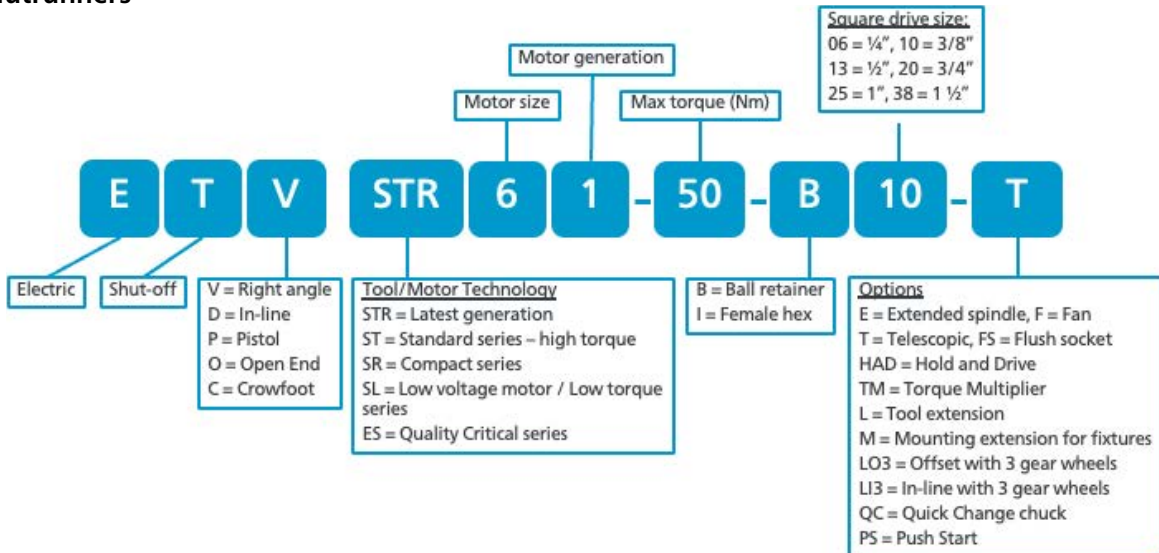


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TOOL KEY - HANDHELD ASSEMBLY TOOLS

ELECTRIC ASSEMBLY TOOLS

Nutrunners



TENSOR ES

ETV ES, ETD/ETF ES, ETP ES

- Torque transducer with an accuracy of $\pm 7.5\%$ over six sigma.
- Robust, sealed design.
- New durable motor with higher speeds.
- Engineered in modules with component commonality.
- Clear LEDs visible through 360°.
- Hot swap.



ETP ES



ETV ES



ETD ES



ETF ES

Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
Angle models									
ETV ES21-04-06	1/4	1.6-4.5	1.2-3.3	1909	0.85	1.9	284	9.5	8436 0120 04
ETV ES21-07-06	1/4	2.8-7	2.1-5.2	1147	0.85	1.9	284	9.5	8436 0120 07
ETV ES21-12-06	1/4	4.8-12	3.5-8.9	718	0.95	2.1	304	11	8436 0120 12
ETV ES21-20-10	3/8	8-20	5.9-14.8	430	1.05	2.3	303	14	8436 0120 20
ETV ES61-25-10	3/8	10-25	7.4-18.4	1378	1.8	4.0	419	14	8436 0160 25
ETV ES61-30-10	3/8	12-30	8.9-22.1	1160	1.8	4.0	421	15.5	8436 0160 30
ETV ES61-40-10	3/8	16-40	11.8-29.5	1153	1.9	4.2	441	18	8436 0160 40
ETV ES61-50-10	3/8	20-50	14.8-36.9	692	1.9	4.2	441	18	8436 0160 50
ETV ES61-70-13	1/2	28-70	20.7-51.6	439	3.1	6.8	499	20	8436 0160 70
ETV ES61-100-13	1/2	40-100	29.5-73.8	370	3.15	6.9	505	22.5	8436 0160 10
ETV ES61-150-13	1/2	60-150	44.3-110.6	296	3.2	7.1	541	26	8436 0160 15
ETV ES61-180-13	1/2	72-180	53-133	232	3.2	7.1	541	26	8436 0160 18
ETV ES61-200-20	3/4	80-200	59-147.5	203	3.4	7.5	543	27	8436 0160 20
Quick chuck									
ETV ES21-12-106-QC	–	4.8-12	3.5-8.9	718	0.95	2.1	304	11	8436 0121 12
Flush socket									
ETV ES61-30-FS	–	12-30	8.9-22.1	1160	1.8	4.0	421	16	8436 0160 51
ETV ES61-40-FS	–	16-40	11.8-29.5	1145	1.9	4.2	441	18	8436 0160 52
ETV ES61-50-FS	–	20-50	14.8-36.9	687	1.9	4.2	441	18	8436 0160 53
ETV ES61-70-FS	–	28-70	20.7-51.6	439	3.1	6.8	499	20	8436 0160 54
ETV ES61-100-FS	–	40-100	29.5-73.8	370	3.15	6.9	505	23	8436 0160 55
ETV ES61-150-FS	–	60-150	44.3-110.6	296	3.2	7.1	541	26	8436 0160 57
ETV ES61-180-FS	–	72-180	53-133	232	3.2	7.1	541	26	8436 0160 58
ETV ES61-200-FS	–	80-200	59-147.5	203	3.4	7.5	543	28	8436 0160 59
Hold & Drive									
ETV ES61-30-HAD	–	6-30	4-21	1160	2.4	5.3	442	18.3	8436 0160 61
ETV ES61-50-HAD	–	20-50	14.8-36.9	692	2.2	4.9	441	18	8436 0160 62
ETV ES61-100-HAD	–	40-100	29.5-73.8	370	3.9	8.6	539	26	8436 0160 63
ETV ES61-150-HAD	–	60-150	44.3-110.6	296	3.4	7.5	541	26	8436 0160 64
ETV ES61-180-HAD	–	72-180	53-133	232	3.4	7.5	540.4	26	8436 0160 65
ETV ES61-200-HAD	–	80-200	59-147.5	203	3.8	8.4	543	28	8436 0160 66

Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Spline/ Mounting	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm		
Straight models										
ETD ES21-02-I06-PS	–	0.8-2	0.6-1.5	4471	0.75	1.7	267	19.5	–	8436 0220 02
ETD ES21-04-I06-PS	–	1.6-4	1.2-3	1909	0.8	1.8	267	19.5	–	8436 0220 04
ETD ES21-07-I06-PS	–	2.8-7	2.1-5.2	1147	0.8	1.8	267	19.5	–	8436 0220 07
ETD ES21-12-I06-PS	–	4.8-12	3.5-8.9	745	0.8	1.8	267	19.5	–	8436 0220 12
ETD ES61-18-10	3/8	7.2-18	5.3-13.3	2129	1.7	3.75	418	23	-/1	8436 0265 18
ETD ES61-18-10-T25	3/8	7.2-18	5.3-13.3	2129	1.85	4.1	456	23	2/2	8436 0260 18
ETD ES61-25-10	3/8	10-25	7.4-18.4	1793	1.7	3.8	418	23	-/1	8436 0265 25
ETD ES61-25-10-T25	3/8	10-25	7.4-18.4	1793	1.85	4.1	456	23	2/2	8436 0260 25
ETD ES61-30-10	3/8	12-30	8.9-22.1	1077	1.7	3.8	418	23	-/1	8436 0265 30
ETD ES61-30-10-T25	3/8	12-30	8.9-22.1	1077	1.85	4.1	456	23	2/2	8436 0260 30
ETD ES61-50-13	1/2	20-50	14.8-36.9	679	2.95	6.5	493	29	2/2	8436 0265 50
ETD ES61-50-13-T25	1/2	20-50	14.8-36.9	679	3.05	6.7	521	29	3/5	8436 0260 50
ETD ES61-70-13	1/2	28-70	20.7-51.6	608	2.95	6.5	493	29	2/2	8436 0265 70
ETD ES61-70-13-T25	1/2	28-70	20.7-51.6	608	3.1	6.8	521	29	3/5	8436 0260 70
ETD ES61-90-13	1/2	36-90	26.6-66.4	467	2.95	6.5	493	29	2/2	8436 0265 90
ETD ES61-90-13-T25	1/2	36-90	26.6-66.4	467	3.1	6.8	521	29	3/5	8436 0260 90
ETD ES61-120-13	1/2	48-120	35.4-88.5	365	2.95	6.5	493	29	2/2	8436 0265 12
ETD ES61-120-13-T25	1/2	48-120	35.4-88.5	365	3.1	6.8	521	29	3/5	8436 0260 12
Straight models with lever start										
ETD ES21-02-I06	–	0.8-2	0.6-1.5	4471	0.78	1.76	267	19.5	–	8436 0221 02
ETD ES21-04-I06	–	1.6-4.5	1.2-3.3	1909	0.83	1.86	267	19.5	–	8436 0221 04
ETD ES21-07-I06	–	2.8-7	2.1-5.2	1147	0.83	1.86	267	19.5	–	8436 0221 07
ETD ES21-12-I06	–	4.8-12	3.5-8.9	745	0.83	1.86	267	19.5	–	8436 0221 12
Fixtured models										
ETF ES21-04-I06-T25	–	1.6-4	1.2-3	1909	0.96	2.1	338	22.5	– *a	8436 0224 04
ETF ES21-07-I06-T25	–	2.8-7	2.1-5.2	1147	0.96	2.1	338	22.5	– *a	8436 0224 07
ETF ES21-12-I06-T25	–	4.8-12	3.5-8.9	745	0.96	2.1	338	22.5	– *a	8436 0224 12
*a Mounting bracket fixed.										
Pistol grip models										
ETP ES21-02-I06-PS	–	0.8-2	0.6-1.5	4471	0.85	1.87	225	19.5	–	8436 0320 02
ETP ES21-04-I06-PS	–	1.6-4	1.2-3	1909	0.85	1.87	225	19.5	–	8436 0320 04
ETP ES21-07-I06-PS	–	2.8-7	2.1-5.2	1147	0.85	1.87	225	19.5	–	8436 0320 07
ETP ES21-12-I06-PS	–	4.8-12	3.5-8.9	745	0.85	1.87	225	19.5	–	8436 0320 12

TENSOR SL

ETD SL

- ETD SL is a very compact screwdriver with excellent power to weight ratio.
- Torque range from 0.3 to 10 Nm.
- Push-to-start function and front lights.
- Small center-to-side distance.
- Ergonomic design.
- Buzzer and additional blue LED for better operator support.



ETD SL

ETV SL

- ETV SL is the most compact transducerised angle screwdriver in the Tensor range.
- Torque range from 0.8 to 20 Nm.
- High durability with spiral angle gears.
- Ergonomic design.
- Buzzer and additional blue LED for better operator support.



ETV SL

ETP SL

- ETP SL is our first push-to-start pistol tool.
- Torque range from 0.3 to 10 Nm.
- Ergonomic, balanced pistol tool.
- Front lights for dark applications.
- Blue light and buzzer.



ETP SL

ETF SL

- ETF SL is the smallest and lightest fixtured tool.
- Torque range from 0.3 to 10 Nm.
- Stroke with 25 mm suspension.
- Small center-to-side distance.



ETF SL

TENSOR SL

Model	Square drive	Torque range		Speed	Weight		Length	CS *a distance	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
Straight tools, push-to-start and front lights									
ETD SL21-01-I06-PS	0.3-1.2	2.7-10	2950	0.7	1.6	246	18/19.5	–	8433 2102 92
ETD SL21-04-I06-PS	0.8-4	7-35	1600	0.7	1.6	246	18/19.5	–	8433 2104 91
ETD SL21-07-I06-PS	1.5-7.5	13-66	970	0.7	1.6	246	18/19.5	–	8433 2107 69
ETD SL21-10-I06-PS	2.0-10	18-89	720	0.7	1.6	246	18/19.5	–	8433 2108 25
Right angle tools, lever start									
ETV SL21-04-I06	0.8-4	7-35	1600	0.75	1.7	279	9	–	8433 2004 47
ETV SL21-04-I06-QC	0.8-4	8-35	1600	0.75	1.7	279	9	–	8433 2004 73
ETV SL21-04-I06	0.8-4	9-35	1600	0.75	1.7	279	9	–	8433 2004 91
ETV SL21-07-I06	1.5-7.5	13-66	970	0.75	1.7	279	9	–	8433 2007 66
ETV SL21-07-I06-QC	1.5-7.5	14-66	970	0.75	1.7	279	9	–	8433 2007 79
ETV SL21-07-I06	1.5-7.5	15-66	970	0.75	1.7	279	9	–	8433 2007 94
ETV SL21-12-I06	2.5-12	22-106	610	0.8	1.8	282	11	–	8433 2008 34
ETV SL21-12-I06-QC	2.5-12	23-106	610	0.8	1.8	282	11	–	8433 2008 61
ETV SL21-12-I06	2.5-12	24-106	610	0.8	1.8	282	11	–	8433 2008 77
ETV SL21-20-I10	4-20	36-180	465	0.95	2.1	285	14	–	8433 2009 55
ETV SL21-20-B10	4-20	36-180	465	0.95	2.1	285	14	–	8433 2009 60
Pistol grip, push-to-start									
ETP SL21-01-I06-PS	0.3-1.2	2.7-10	3000	0.85	1.9	246	20.5	–	8433 2201 16
ETP SL21-04-PS	0.8-4	7-35	1600	0.85	1.9	246	20.5	–	8433 2204 66
ETP SL21-07-PS	1.5-7.5	13-66	970	0.85	1.9	246	20.5	–	8433 2207 53
ETP SL21-10-PS	2-10	18-89	720	0.85	1.9	246	20.5	–	8433 2208 28
Fixtured tools, lever start or remote start									
ETF SL21-01-I06-T25	0.3-1.2	2.7-10	3000	0.95	2.1	322	18	25	8433 2404 13
ETF SL21-04-I06-T25	0.8-4	7-35	1600	0.95	2.1	322	18	25	8433 2404 19
ETF SL21-07-I06-T25	1.5-7.5	13-66	970	0.95	2.1	322	18	25	8433 2407 26
ETF SL21-10-I06-T25	2-10	18-89	720	0.95	2.1	322	18	25	8433 2408 13
*a For ETV, CS distance over angle head.									

TENSOR SR

ETP SR31

The ETP SR is a pistol type electric nutrunner that delivers accurate, fast and error proof tightening with low reaction force. With TurboTight™ the ETP SR31 can handle one hand operations up to 25 Nm. Delivers fully traceable results, has a low energy consumption and is simple to set up.

- Perfectly balanced and ergonomically designed handle.
- High free run speed (up to 2000 rpm's) and short tightening cycle (Up to 10 tightenings/min).
- Direct and robust gear box.
- The LED ring provides instant input to the operator and the incorporated speaker improve the operator feedback.
- Integrated function button, customized for your needs.



ETP SR

ETV SR

- SR angle tools are extremely fast, compact and easy to operate.
- ESD certified.
- Easy to configure the function button.
- Front LED's gives better operator feedback.
- Torque range from 2.5 to 30 Nm.



ETV SR

ETD SR

- SR straight tools are ideal for handheld applications and fixture applications.
- Torque range from 1.5 to 16 Nm.
- Front light guide is integrated.
- Push-to-start mechanism.
- ESD certified.



ETD SR

Model	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
	Nm	ft lb		kg	lb			
Angle models								
ETV SR21-12-10	2.5-12	1.9-8.9	1350	1.1	2.4	297	14	8436 4120 12
ETV SR21-25-10	5-25	3.7-18.5	1000	1.2	2.6	297	14	8436 4120 25
ETV SR21-30-10	6-30	4.4-22.1	663	1.2	2.6	299	15.5	8436 4120 30
ETV SR21-50-10-SP	10-50	7.4-36.8	393	1.3	2.9	332	17.7	8436 4120 50
Straight models								
ETD SR21-07-I06-PS	1.5-7	1.0-5.2	2090	0.9	1.9	259	24	8436 4220 07
ETD SR21-16-I06-PS	3.5-16	2.6-11.8	1460	1.0	2.2	276	24	8436 4220 16
ETD SR21-07-I06-T25	1.5-7	1.0-5.2	2090	0.9	1.9	353	24	8436 4224 07
ETD SR21-16-10-T25	3.5-16	2.6-11.8	1460	1.0	2.2	353	24	8436 4224 17
Pistol grip models *a								
ETP SR31-25-I06	5-25	3.7-18.4	2010	0.85	1.8	210	19.5	8436 4300 21
ETP SR31-25-10	5-25	3.7-18.4	2010	0.85	1.8	210	19.5	8436 4300 20
*a Pistol grip models works only with Power Focus 6000 and Power Focus 8.								

*a Pistol grip models works only with Power Focus 6000 and Power Focus 8.

TENSOR ES, SL AND SR ACCESSORIES

Covers for standard sockets	Ordering No.
ETD ES61-18/ 25/ 30	4220 3251 02
ETD ES61-50	4220 3251 03
ETV ES61-30	4220 3154 04
ETV ES61-100	4220 3154 05
ETV ES61-40/50	4220 1995 05
ETV ES61-70	4220 1993 03
ETV SL21, ETV ES61-25	4220 3154 03



Supported extensions and tool extension	Ordering No.
Supported extension for SR21, ETV SL21	4220 3868 90
Tool extension for ETV SR21-25-10	4220 2903 93



Suspension yokes SL/SR	Type	Assembly	Ordering No.
ETD/ETV SL	Horizontal	Motor	4220 0987 81
SR21	For rear		4220 4410 80
SR21	For front		4220 4409 80

Pistol grip Tensor SL	Ordering No.
Tensor SL	4220 3516 80



Support handle	Ordering No.
ETV/ETD ES21	4220 2725 83
ETD SR21	4220 4347 80

Lever	Ordering No.
Lever SL	4220 2540 81
Extended lever SL	4220 2540 89
Spoon lever SR21	4220 4338 83
Short lever ETV/ETD ES21	4220 4366 86
Long lever ETV/ETD ES21	4220 4366 85

Tool holder SL	Ordering No.
ETP / ETD	4220 3584 80



Scan to
know more

TENSOR ES AND SL ACCESSORIES

Cables Tensor ES	Ordering No.
Round cables for ES21	
2 m	4220 3251 03
3 m	4220 3154 04
5 m	4220 3154 05
7 m	4220 1995 05
10 m	4220 1993 03
15 m	4220 3154 03
Flat cables for ES61	
3 m	4220 4339 03
5 m	4220 4339 05
7 m	4220 4339 07
10 m	4220 4339 10
15 m	4220 4339 15
Extension cables for all cables	
3 m	4220 4393 03
5 m	4220 4393 05
10 m	4220 4393 10
15 m	4220 4393 15
25 m	4220 4393 25
Extension cables for all cables	
Suspension yoke cable	4210 1810 00

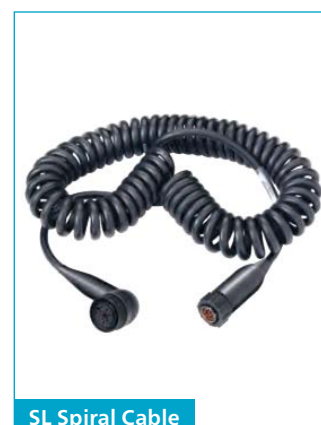


SL Cable



SL Cable with 90 degrees connector

Cables Tensor SL	Ordering No.
Tool cables	
3 m	4220 3319 03
5 m	4220 3319 05
10 m	4220 3319 10
15 m	4220 3319 15
Heavy duty cables	
3 m	4220 3378 03
5 m	4220 3378 05
10 m	4220 3378 10
15 m	4220 3378 15
Cables with 90 degrees connector	
3 m	4220 3607 03
5 m	4220 3607 05
10 m	4220 3607 10
20 m	4220 3607 20
Spiral cables straight	
5 m	4220 3746 05
Spiral cables with 90 degrees connector	
5 m	4220 3617 05
Extension cables	
3 m	4220 2795 03
5 m	4220 2795 05
10 m	4220 2795 10
Suspension yoke cable	4210 1810 00



SL Spiral Cable

TENSOR SR ACCESSORIES

Cables Tensor SR	Power Focus 6000 or Power Focus 8 Ordering No.
Tool cables	
2 m	4220 4375 02
3 m	4220 4375 03
5 m	4220 4375 05
7 m	4220 4375 07
10 m	4220 4375 10
15 m	4220 4375 15
Cables with 90 degrees connector	
2 m	4220 5199 02
3 m	4220 5199 03
5 m	4220 5199 05
7 m	4220 5199 07
10 m	4220 5199 10
15 m	4220 5199 15
Spiral cables (length/stretched length)	
3 m/ 4 m	4220 4365 03
7 m/ 8 m	4220 4365 07
10 m/ 12 m	4220 4365 10
Cable protection 2 m	4220 2977 90
Extension cables	
3 m	4220 4393 03
5 m	4220 4393 05
10 m	4220 4393 10
15 m	4220 4393 15



SR Cable



SR Cable with 90 degrees connector



SR Spiral Cable



SR Cable protection

ETV ST

ETV ST

- ETV ST right angle tools are ideal for handheld and fixtured applications.
- Torque range from 1 to 4000 Nm.
- Tensor ST offers:
 - Extremely high productivity.
 - More ergonomic benefits.
 - Better operator feedback.



Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Height	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	mm	
ETV ST81										
ETV ST81-50-10	3/8	16-55	12-40	1090	1.8	3.9	473	18	48	8433 2051 55
ETV ST81-70-13	1/2	20-80	15-58	790	2.3	5.0	485	20	58	8433 2053 48
ETV ST81-100-13	1/2	20-100	15-80	540	2.7	5.9	522	22.5	60	8433 2056 82
ETV ST81-150-13	1/2	30-160	22-117	380	3.2	7.0	555	26	65	8433 2060 12
ETV ST81-180-13	1/2	35-180	26-133	310	3.2	7.0	555	26	65	8433 2062 31
ETV ST81-200-20	3/4	40-200	30-154	300	3.2	7.0	556	27	70	8433 2063 42
ETV ST81 Flush Socket										
ETV ST81-100-FS	-	20-100	15-80	540	2.7	5.9	522	23	51	8433 2058 68
ETV ST81-180-FS	-	35-180	26-133	310	3.2	7.0	555	26	58	8433 2062 50
ETV ST81-200-FS	-	40-200	30-154	300	3.2	7.0	557	28	58	8433 2064 59
ETV ST81 Hold & Drive										
ETV ST81-50-HAD	1/2	16-55	12-40	1090	2.3	5.0	473	18.5	62	8433 2052 80
ETV ST81-100-HAD	1/2	20-100	15-80	665	2.6	5.7	542	23	71	8433 2056 36
ETV ST81-100-HAD-HD	3/4	20-100	15-80	665	2.7	5.9	542	26	80	8433 2056 35
ETV ST81-120-HAD	3/4	30-130	22-100	540	2.8	6.0	560	26	80	8433 2058 65
ETV ST81-150-HAD	3/4	30-160	22-117	365	3.3	7.0	560	26	80	8433 2061 81
ETV ST81-180-HAD	3/4	35-180	26-133	310	3.3	7.0	560	26	80	8433 2062 60
ETV ST81-200-HAD	1	40-200	30-154	300	3.3	7.0	561	28	81	8433 2065 09
ETV ST101										
ETV ST101-100-13	1/2	20-100	15-74	920	4.2	9.3	572	22.5	44	8433 2080 10
ETV ST101-180-13	1/2	50-180	37-133	575	4.2	9.3	600	25.3	47	8433 2080 52
ETV ST101-200-20	3/4	50-200	37-147	485	4.4	9.7	602	27.5	47	8433 2080 92
ETV ST101-270-20	3/4	65-270	48-199	380	7.3	16.1	672	32.9	62	8433 2081 23
ETV ST101-370-20	3/4	90-370	66-273	280	7.3	16.1	672	32.9	62	8433 2082 26
ETV ST101-450-20	3/4	110-450	81-332	230	10.6	23.4	715	54.0	76	8433 2082 81
ETV ST101-600-25	1	150-600	111-443	151	10.6	23.4	715	54.0	76	8433 2083 56
ETV ST101 Fan										
ETV ST101-100-13-F	1/2	20-100	15-74	920	4.2	9.3	572	23	44	8433 2080 30
ETV ST101-180-13-F	1/2	50-180	37-133	575	4.2	9.3	600	25	47	8433 2080 63
ETV ST101-200-20-F	3/4	50-200	37-147	485	4.4	9.7	602	28	47	8433 2080 93
ETV ST101-270-20-F	3/4	65-270	48-199	380	7.3	16.1	672	33	62	8433 2081 45
ETV ST101-370-20-F	3/4	90-370	66-273	280	7.3	16.1	672	33	62	8433 2082 48
ETV ST101-450-20-F	3/4	110-450	81-332	230	10.6	23.4	715	54	76	8433 2082 90
ETV ST101-600-25-F	1	150-600	111-443	150	10.6	23.4	715	54	76	8433 2083 69

Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Height	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	mm	
ETV ST101 Torque Multiplier										
ETV ST101-600-TM	3/4	150-600	111-443	132	7.6	16.8	613	34	143	8433 2083 62
ETV ST101-1000-TM	1	250-1000	184-734	77	11.3	24.3	679	40	191	8433 2084 05
ETV ST101-1500-25-TM	1	325-1500	240-1100	23	12	26	625	43	257	8433 2084 65
ETV ST101-1500-38-TM	1 1/2	325-1500	240-1100	48	19	42	719	71	233	8433 2084 70
ETV ST101-2000-38-TM	1 1/2	500-2000	370-1475	35	19	42	719	71	231	8433 2084 80
ETV ST101-4000-38-TM	1 1/2	1000-4000	734-2950	21.8	21.5	47	710	71	350	8433 2084 90
ETV ST101 Torque Multiplier/Fan										
ETV ST101-600-TM-F	3/4	150-600	111-443	132	7.6	16.8	613	34	143	8433 2083 96
ETV ST101-1000-TM-F	1	250-1000	184-734	77	11.3	24.3	679	40	191	8433 2084 10

ETD ST

- ETD ST inline tools.
- Torque range from 1 to 4000 Nm.
- Tensor ST offers:
 - Extremely high productivity.
 - Ergonomic design.
 - Excellent operator feedback.



ETD ST

Model	Square drive In	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Spline/ Mounting mm	Ordering No.
		Nm	ft lb		kg	lb				
ETD ST81										
ETD ST81-30-10	3/8	45229	45129	1700	1.8	4.0	450	24	- / 1	8433 2151 93
ETD ST81-50-13	1/2	16-50	12-37	1230	2.1	4.6	493	24	2 / 2	8433 2153 34
ETD ST81-70-13	1/2	15-70	12-51	880	2.5	5.5	510	26.5	2 / 2	8433 2156 03
ETD ST81-90-13	1/2	20-95	15-70	675	2.5	5.5	510	26.5	2 / 2	8433 2158 14
ETD ST81-120-13	1/2	25-125	19-91	505	2.5	5.5	510	26.5	2 / 2	8433 2160 25
ETD ST81 Telescopic										
ETD ST81-70-13-T25	1/2	15-70	12-51	880	2.6	5.8	538	26.5	3 / 5	8433 2154 98
ETD ST81-90-13-T25	1/2	20-95	15-70	675	2.6	5.8	538	26.5	3 / 5	8433 2157 25
ETD ST81-120-13-T25	1/2	25-125	19-91	505	2.6	5.8	538	26.5	3 / 5	8433 2159 53
ETD ST101										
ETD ST101-100-13	1/2	25-100	18-73	1043	3.2	7.0	631	30.5	-	8433 2179 00
ETD ST101-120-13	1/2	30-120	22-88	875	3.2	7.0	631	30.5	-	8433 2180 22
ETD ST101-150-20	3/4	30-150	22-109	685	4.3	9.3	706	33	-	8433 2181 36
ETD ST101-200-20	3/4	50-200	36-146	500	7.4	16.3	706	33	-	8433 2182 05
ETD ST101-300-20	3/4	70-300	51-221	345	7.4	16.3	706	33	-	8433 2182 70
ETD ST101-500-20	3/4	120-500	88-368	204	8.3	18.5	717	33	-	8433 2183 28
ETD ST101-750-25	1	150-750	109-553	143	9.1	20.3	681	45	-	8433 2184 40
ETD ST101-1000-25	1	250-1000	184-737	100	9.7	21.6	708	45	-	8433 2185 60
ETD ST101-1200-25-S	1	300-1200	220-885	81	12	26	787	47	7	8433 2196 10
ETD ST101 Fan										
ETD ST101-100-13-F	1/2	25-100	18-73	1043	3.2	7.0	631	30.5	-	8433 2179 05
ETD ST101-150-20-F	3/4	30-150	22-109	685	4.3	9.3	706	33	-	8433 2181 40
ETD ST101-200-20-F	3/4	50-200	36-146	500	7.4	16.3	706	33	-	8433 2182 10
ETD ST101-300-20-F	3/4	70-300	51-221	345	7.4	16.3	706	33	-	8433 2182 72
ETD ST101-500-20-F	3/4	120-500	88-368	204	8.3	18.5	717	33	-	8433 2183 30
ETD ST101-750-25-F	1	150-750	109-553	143	9.1	20.3	681	45	-	8433 2184 50
ETD ST101-1200-25-F	1	300-1200	220-885	81	12	26	787	47	-	8433 2186 10
ETD ST101-2000-38-F	1 1/2	500-2000	370-1475	48	17	37	742	68	-	8433 2187 22
ETD ST101-2000-38-S-F	1 1/2	500-2000	370-1475	48	17	37	742	68	8	8433 2197 22
ETD ST101-4000-38-F	1 1/2	1000-4000	735-2950	25	22	48	823	68	-	8433 2187 40
ETD ST101-4000-38-S-F	1 1/2	1000-4000	735-2950	25	22	48	823	68	8	8433 2197 40

Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Spline/ Mounting	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	mm	
ETD ST101 Telescopic										
ETD ST101-100-13-T25	1/2	25-100	18-73	1043	3.3	7.3	656	30.5	-	8433 2179 10
ETD ST101-120-13-T25	1/2	30-120	22-88	873	3.3	7.3	656	30.5	-	8433 2180 32
ETD ST101-150-20-T40	3/4	30-150	22-109	685	4.4	9.7	656	30.5	-	8433 2181 46
ETD ST101-200-20-T40	3/4	50-200	36-146	500	7.5	16.5	756	33	-	8433 2182 23
ETD ST101-300-20-T40	3/4	70-300	51-221	345	7.5	16.5	756	33	-	8433 2182 82
ETD ST101-500-20-T40	3/4	120-500	88-368	204	8.4	18.5	768	37	-	8433 2183 38
ETD ST101-750-25-T50	1	150-750	109-553	143	9.2	20.3	727	45	-	8433 2184 56
ETD ST101-1000-25-T50	1	250-1000	184-737	100	9.8	21.6	754	45	-	8433 2185 78
ETD ST101 Telescopic Fan										
ETD ST101-100-13-T25-F	1/2	25-100	18-73	1043	3.3	7.3	656	30.5	-	8433 2179 15
ETD ST101-120-13-T25-F	1/2	30-120	22-88	873	3.3	7.3	656	30.5	-	8433 2180 48
ETD ST101-150-20-T40-F	3/4	30-150	22-109	685	4.4	9.7	656	30.5	-	8433 2181 59
ETD ST101-200-20-T40-F	3/4	50-200	36-146	500	7.5	16.5	756	33	-	8433 2182 45
ETD ST101-300-20-T40-F	3/4	70-300	51-221	345	7.5	16.5	756	33	-	8433 2182 91
ETD ST101-500-20-T40-F	3/4	120-500	88-368	204	8.4	18.5	769	37	-	8433 2183 49
ETD ST101-750-25-T50-F	1	150-750	109-553	143	9.2	20.3	769	45	-	8433 2184 69
ETD ST101-1000-25-T50-F	1	250-1000	184-737	100	9.8	21.6	755	45	-	8433 2185 89
ETD ST101-1200-25-T50-F	1	300-1200	220-885	81	12	26	844	47	-	8433 2186 12
ETD ST101-1200-25-T50-S-F	1	300-1200	220-885	81	12	26	844	47	7	8433 2196 12
ETD ST101-2000-38-T50-F	1 1/2	500-2000	370-1475	48	17	37	840	68	-	8433 2187 20
ETD ST101-2000-38-T50-S-F	1 1/2	500-2000	370-1475	48	17	37	840	68	8	8433 2197 20
ETD ST101-4000-38-T50-F	1 1/2	1000-4000	735-2950	25	22	48	921	68	-	8433 2187 42
ETD ST101-4000-38-T50-S-F	1 1/2	1000-4000	735-2950	25	22	48	921	68	8	8433 2197 42

ETP ST

ETP ST

- ETP ST is a pistol grip model for handheld applications.
- Torque range from 1 to 20 Nm.
- Female hex drive for bits.
- Low weight and ergonomic grip.
- Easy to access, reverse button.
- Operator friendly, feedback signals with sound and lights.



ETP ST

Model	Square drive	Torque range		Speed	Weight		Length	Height	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
ETP ST32									
ETP ST32-05-10	3/8	1-5	0.7-3.6	2820	0.75	1.7	197	179	8433 2211 03
ETP ST32-05-I06	-	1-5	0.7-3.6	2820	0.75	1.7	197	179	8433 2212 19
ETP ST32-10-10	3/8	3-11	2.2-8.0	1210	0.8	1.8	197	179	8433 2213 48
ETP ST32-10-I06	-	3-11	2.2-8.0	1210	0.8	1.8	197	179	8433 2214 63
ETP ST32-20-10	3/8	5-20	3.6-15.0	677	0.91	2	235	179	8433 2216 95
ETP ST32-20-I06	-	5-20	3.6-15.0	677	0.91	2	235	179	8433 2217 11
ETP ST32 with Barcode Scanner									
ETP ST32-05-I06BCR	-	1-5	0.7-3.7	2820	0.87	2	197	205	8433 2212 29
ETP ST32-10-I06BCR	-	3-11	2.2-8.0	1210	0.92	2.1	197	205	8433 2214 73
ETP ST32-20-I06BCR	-	5-20	3.6-15.0	677	1.03	2.3	237	205	8433 2217 26

ETP ST REVO

ETP ST REVO

- Unique and patented 360 deg swivel with transducer.
- Ultra-compact size improves access.
- Reduced weight means less need for fixtures.
- Display on tool gives direct feedback of tightening result.
- Program selection is made directly on tool.
- Ideal for handheld application or fixtures with reduced space.
- Torque range from 60-8000 Nm.



ETP ST REVO

Model	Square drive	Torque range		Speed	Weight		Length	Height	Spline	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm		
Model with fan										
ETP ST101-200-20-F	3/4	60-200	45-145	396	5.2	11.5	303	32.5	3	8433 2302 02
ETP ST101-300-20-F	3/4	90-300	66-221	293	5.2	11.5	303	32.5	3	8433 2303 02
ETP ST101-500-20-F	3/4	150-500	110-365	186	5.9	13	334	33.5	4	8433 2305 02
ETP ST101-750-25-F	1	220-750	160-550	132	6.2	13.7	353	33.5	5	8433 2307 52
ETP ST101-1000-25-F	1	300-1000	220-735	99	6.4	14.1	364	33.5	5	8433 2310 02
ETP ST101-1500-25-F	1	450-1500	332-1106	47	8.8	19.4	402	43.5	9	8433 2321 52
ETP ST101-2000-38-F	1 1/2	600-2000	442-1475	38	11.5	25.4	454	48	7	8433 2322 02
ETP ST101-3000-38-F	1 1/2	900-3000	664-2212	24	14.8	33	476	59	8	8433 2323 02
ETP ST101-4000-38-F	1 1/2	1200-4000	885-2950	20	15	33	481	59	8	8433 2324 02
ETP ST101-1300-20-F-HA	3/4	390-1300	288-1000	65	6.4	14.1	348	32	–	8433 2313 03
ETP ST101-2400-25-F-HA	1	720-2400	532-1770	31	7.5	16.5	400	35.5	–	8433 2326 03
ETP ST101-4000-25-F-HA	1	1200-4000	885-2950	16	11	24.2	461	50.5	–	8433 2324 03
ETP ST101-5500-38-F-HA	1 1/2	1650-5500	1217-4056	17	13.2	29.1	452	53	–	8433 2325 03
ETP ST101-6500-38-F-HA	1 1/2	1950-6500	1440-4800	12	13.2	29.1	452	53	–	8433 2327 03
ETP ST101-8000-38-F-HA	1 1/2	2400-8000	1770-5900	10	13.2	29.1	452	53	–	8433 2328 03

Reaction bar not included for ETP ST101. See accessory pages.

ETV STR

- Protected against intrusion of dust and water to withstand the toughest environments. IP class 54.
- Built in gyroscope to detect operators influence on tightening.
- Modular STR design for parts commonality between models and sizes.
- Dual accessories support for customizable functionality such as QR code scanning,
- EHMI display or headlights.
- High cycle rate capability due to improved heat dissipation.
- Operator feed back through built in loudspeaker, vibrator and high visibility LEDs.



Model	Square drive In	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
		Nm	ft lb		kg	lb			
ETV STR31									
ETV STR31-05-10	3/8	1-5	0.7-3.6	3070	1.1	2.4	381	11	8436 6130 05
ETV STR31-10-06	1/4	3-12	2.2-8.8	1310	1.1	2.4	381	11	8436 6130 12
ETV STR31-10-10	3/8	3-12	2.2-8.8	1310	1.1	2.4	381	11	8436 6130 10
ETV STR31-15-10	3/8	5-15	3.6-10	975	1.1	2.4	381	11	8436 6130 15
ETV STR31-20-10	3/8	5-22	3.6-16	705	1.3	2.9	415	14	8436 6130 20
ETV STR31FemaleHex									
ETV STR31-05-I06-QC	1/4	1-5	0.7-3.6	3070	1.1	2.4	381	11	8436 6130 06
ETV STR31-10-I06-QC	1/4	3-12	2.2-8.8	1310	1.1	2.4	381	11	8436 6130 11
ETV STR61									
ETV STR61-25-10	3/8	6-28	4-20	1620	1.4	3.1	439	14	8436 6160 25
ETV STR61-30-10	3/8	7-35	5-25	1220	1.4	3.1	441	15.5	8436 6160 30
ETVSTR61-40-10	3/8	8-40	6-29	1220	1.6	3.5	452	18	8436 6160 40
ETV STR61-50-10	3/8	10-55	7-40	735	1.6	3.5	452	18	8436 6160 50
ETV STR61-70-13	1/2	15-80	10-58	530	2.1	4.6	464	20	8436 6160 70
ETV STR61-100-13	1/2	20-100	15-80	390	2.6	5.7	501	22.5	8436 6160 10
ETV STR61-150-13	1/2	30-160	22-117	245	3.0	6.6	537	25.5	8436 6160 15
ETV STR61-180-13	1/2	35-180	26-133	215	3.0	6.6	543	25.5	8436 6160 18
ETV STR61-200-20	3/4	40-200	30-154	215	3.1	6.8	539	27	8436 6160 20
ETV STR61 Barcode scanner and lamp									
ETV STR61-30-10-BL	3/8	7-35	5-25	1220	1.5	3.3	441	15.5	8436 6169 31
ETV STR61-40-10-BL	3/8	8-40	6-29	1220	1.7	3.7	452	18	8436 6169 41
ETV STR61-50-10-BL	3/8	10-55	7-40	735	1.7	3.7	452	18	8436 6169 51
ETV STR61-70-13-BL	1/2	15-80	10-58	530	2.2	4.8	464	20	8436 6169 71

Model	Square drive	Torque range		Speed	Weight		Length	CS distance	Ordering No.
	In	Nm	ft lb	r/min	kg	lb	mm	mm	
ETV STR61 Flush Socket									
ETV STR61-30-FS	–	7-35	5-25	1220	1.4	3.1	441	16	8436 6161 43
ETV STR61-40-FS	–	8-40	6-29	1220	1.6	3.5	452	18	8436 6161 50
ETV STR61-50-FS	–	10-55	7-40	735	1.6	3.5	452	18	8436 6161 57
ETV STR61-70-FS	–	15-80	10-58	530	2.1	4.6	464	20	8436 6161 64
ETV STR61-100-FS	–	20-110	15-80	390	2.6	5.7	501	23	8436 6161 08
ETV STR61-150-FS	–	30-160	22-117	237	3	6.6	540	26	8436 6161 15
ETV STR61-180-FS	–	35-180	26-133	190	3.0	6.6	546	26	8436 6161 22
ETV STR61-200-FS	–	40-200	30-154	215	3.1	6.8	543	27	8436 6161 29
ETV STR61 Hold And Drive									
ETV STR61-30-HAD	–	7-35	5-25	1220	2	4.4	464	18.3	8436 6161 42
ETV STR61-50-HAD	–	10-50	7-40	735	2.1	4.6	438	18.3	8436 6161 56
ETV STR61-100-HAD	–	20-100	15-80	390	2.7	5.9	503	23	8436 6161 07
ETV STR61-150-HAD	–	30-160	22-117	237	3.1	6.6	541	26	8436 6161 14
ETV STR61-180-HAD	–	35-180	26-133	215	3.1	6.6	539	26	8436 6161 21
ETV STR61-200-HAD	–	40-200	30-154	215	3.2	7.0	543	26	8436 6161 28
ETV STR61 with closed crowfoot (SALTUS)									
ETC STR61-30-13-SO3									8434 4201 93
ETC STR61-31-13-SO4									8434 4203 08
ETC STR61- 44-10-SO6									8434 4204 27
ETC STR61-51-11-SO4									8434 4204 56
ETC STR61- 51-14-SO4									8434 4204 29
ETV STR61 with open crowfoot (SALTUS)									
ETO STR61-18-10-SO3									8434 4201 70
ETO STR61-26-12-SO3									8434 4203 49
ETO STR61- 30-13-SO3									8434 4201 81
ETO STR61-30-17-SO3									8434 4202 14
ETO STR61-75-17-SO3									8434 4206 86

* for dimentions, please see our Dimensional Drawings portal

ETD STR

- Protected against intrusion of dust and water to withstand the toughest environments. IP class 54.
- Built in gyroscope to detect operators influence on tightening.
- Modular STR design for parts commonality between models and sizes.
- Dual accessories support for customizable functionality such as QR code scanning,
- EHMI display or headlights.
- High cycle rate capability due to improved heat dissipation.
- Operator feed back through built in loudspeaker, vibrator and high visibility LEDs.



Model	Square drive In	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
		Nm	ft lb		kg	lb			
ETD STR31									
ETD STR31-05-10	3/8	1-5	0.7-3.6	3645	1.0	2.2	388	24	8436 6230 05
ETD STR31-10-10	3/8	2-10	1.4-7.3	1555	1.2	2.6	388	24	8436 6230 10
ETD STR31FemaleHex									
ETD STR31-05-I06-QC	1/4	1-5	0.7-3.6	3645	1.0	2.2	350	24	8436 6230 07
ETD STR31 Telescopic									
ETD STR31-05-10-T25	3/8	1.5-5	1.1-3.7	1310	1.1	2.4	437	11	8436 6230 06
ETD STR31-10-10-T25	3/8	2-10	1.4-7.3	1555	1.3	2.9	436.5	24	8436 6230 11
ETD STR61									
ETD STR61-15-10	3/8	4-16	3-12	2500	1.4	3.1	438	24	8436 6260 15
ETD STR61-20-10	3/8	5-22	3.6-16	1890	1.4	3.1	438	24	8436 6260 20
ETD STR61-30-10	3/8	6-35	4.4-25	1130	1.4	3.1	429	24	8436 6260 30
ETD STR61-50-13	1/2	10-55	7.3-40	819	2.0	4.4	474	24	8436 6260 50
ETD STR61-70-13	1/2	15-80	12-58	560	2.3	5.1	491	26.5	8436 6260 70
ETD STR61-90-13	1/2	20-95	15-70	440	2.3	5.1	491	26.5	8436 6260 90
ETD STR61 Female Hex									
ETD STR61-15-I06-QC	1/4	4-16	3-12	2500	1.3	2.9	429	24	8436 6260 18
ETD STR61 Telescopic									
ETD STR61-15-10-T25	3/8	4-16	3-12	2500	1.5	3.3	477	24	8436 6260 16
ETD STR61-15-10-T50	3/8	4-16	3-12	2500	1.6	3.5	527	24	8436 6260 17
ETD STR61-20-10-T25	3/8	5-22	3.6-16	1890	1.5	3.3	477	24	8436 6260 21
ETD STR61-30-10-T25	3/8	6-35	4.4-25	1130	1.5	3.3	468	24	8436 6260 31
ETD STR61-30-10-T50	3/8	6-35	4.4-25	1130	1.5	3.3	518	24	8436 6260 32
ETD STR61-50-13-T25	1/2	10-55	7.3-40	819	2.2	4.8	501	24	8436 6260 51
ETD STR61-50-13-T50	1/2	10-55	7.3-40	819	2.1	4.6	557	24	8436 6260 52
ETD STR61-70-13-T25	1/2	15-60	12-58	560	2.4	5.4	518	24	8436 6260 71
ETD STR61-90-13-T25	1/2	20-95	15-70	440	2.4	5.4	518	24	8436 6260 91
ETD STR61-120-13-T50	1/2	36-120	26-88	495	2.5	5.5	574	26.5	8436 6260 62

ETP STR AND ETT STR

ETP STR Pistol Grip

- Outstanding power to weight ratio.
- D-handle shape for increased robustness and safety.
- Easy mounting of additional accessories or optional support handle.
- High cycle rate capability due to improved heat dissipation.
- Operator feed back through built in loudspeaker, vibrator and high visibility LEDs.



ETP STR

Model	Square drive In	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
		Nm	ft lb		kg	lb			
ETP STR61									
ETP STR61-20-10	3/8	5-22	3.7-16.2	2100	1.3	2.87	244	24	8436 6360 20
ETP STR61-30-10	3/8	6-32	4.4-23.5	1530	1.3	2.87	244	24	8436 6360 30
ETP STR61-50-13	1/2	10-55	7.4-40.6	820	1.7	3.75	282	24	8436 6360 50
ETP STR61-70-13	1/2	14-80	10.3-59	560	2.0	4.41	298	26.5	8436 6360 70
ETP STR61-90-13	1/2	20-95	14.7-70.4	450	2.0	4.41	298	26.5	8436 6360 90
ETP STR61-120-13	1/2	24-125	17.7-89.4	380	2.0	4.41	298	26.5	8436 6360 12
ETP STR61 Cable On Top									
ETP STR61-20-10 COT	3/8	5-22	3.7-16.2	2100	1.7	3.75	296	24	8436 6368 20
ETP STR61-30-10 COT	3/8	6-32	4.4-23.5	1530	1.7	3.75	296	24	8436 6368 30
ETP STR61-50-13 COT	1/2	10-55	7.4-40.6	820	2.1	4.63	334	24	8436 6368 50
ETP STR61-70-13 COT	1/2	14-80	10.3-59	560	2.4	5.29	350	26.5	8436 6368 70
ETP STR61-90-13 COT	1/2	20-95	14.7-70.4	450	2.4	5.29	350	26.5	8436 6368 90
ETP STR61-120-13 COT	1/2	24-125	17.7-89.4	380	2.4	5.29	350	26.5	8436 6368 12

ETT STR Two Trigger

- Transducer in front for outstanding accuracy and reliability. +/- 2,5% over 6 sigma.
- Built in gyroscope to detect operators influence on tightening.
- Modular STR design for parts commonality between models and sizes.
- Additional front trigger makes the tool ideal for a combined pre tightening and final tightening combination, two tools in one. front trigger can also be used a safety trigger
- High cycle rate capability due to improved heat dissipation.
- Operator feed back through built in loudspeaker, vibrator and high visibility LEDs.



ETT STR

Model	Square drive In	Torque range		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
		Nm	ft lb		kg	lb			
ETT STR61									
ETT STR61-20-10	3/8	4-20	3-15	1690	1.6	3.6	384	24	8436 6660 20
ETT STR61-30-10	3/8	6-30	4-22	1300	1.6	3.6	384	24	8436 6660 30
ETT STR61-40-10	3/8	8-40	6-30	1015	1.7	3.7	384	24	8436 6660 40
ETT STR61-50-10	3/8	10-50	7-37	780	1.7	3.7	384	24	8436 6660 50

TENSOR ST AND STR ACCESSORIES

Cables Tensor ST and STR	Power Focus 6000 or Power Focus 8 Ordering No.
Tool cables	
2 m	4220 4375 02
3 m	4220 4375 03
5 m	4220 4375 05
7 m	4220 4375 07
10 m	4220 4375 10
15 m	4220 4375 15
Cables with 90 degrees connector	
2 m	4220 5199 02
3 m	4220 5199 03
5 m	4220 5199 05
7 m	4220 5199 07
10 m	4220 5199 10
15 m	4220 5199 15
Spiral cables (length/stretched length)	
3 m/ 4 m	4220 4365 03
7 m/ 8 m	4220 4365 07
10 m/ 12 m	4220 4365 10
Cable protection 2 m	4220 2977 90
Extension cables	
3 m	4220 4393 03
5 m	4220 4393 05
10 m	4220 4393 10
15 m	4220 4393 15



ST/SR/STR Cable



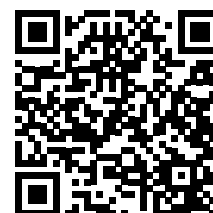
ST/SR/STR Cable with
90 degrees connector



ST/SR/STR Spiral Cable



ST/SR/STR Cable protection



Scan to
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TENSOR HANDHELD CABLE TOOL ACCESSORIES

Tool Extensions	Length mm	Ordering No.
ES61 ETV 70/100/150/180/200, ES61 ETD 50/70/90/120	150	4220 1132 80
ES61 ETV 25/30/40/50, ES61 ETD 18/25/30	150	4220 1131 80
ST61 ETV 20-30	150	4220 2903 96
ST61 ETV 40-50	150	4220 2903 95
ST61 ETV 70	150	4220 2903 97
ST61/ST81/ST101 ETV 100-200	150	4220 2903 91
ST101 270-1000	150	4220 1585 80
ST101 600	150	4220 1585 85
STR61 ETV 25	150	4220 2903 80
STR61 ETV 30	150	4220 2903 96
STR61 ETV 40-50	150	4220 2903 95
STR61 ETV 70	150	4220 2903 97
STR61 ETV 100-200	150	4220 2903 91

NOTE: All ETV ST tool extensions can also be used with equivalent ETV STB tools.



Tool extensions



Supported extensions



Covers for standard sockets

Supported extensions (~154 mm)			Ordering No.
Tensor ES	Tensor ST/SR	Tensor STR	
ES61 ETV 25/30		STR61 ETV 30	4220 3869 90
	SR21, ST31 ETV 20, ST61 28-30	STR31 ETV 20, STR61 ETV 25	4220 3868 90
ES61 ETV 40/50	ST61/ST81 ETV 40-50	STR61 ETV 40-50	4220 2209 91
ES61 ETV 70	ST61/ST81 ETV 70	STR61 ETV 70	4220 2596 91
	ST61/81/101 ETV 150-180	STR61 ETV 150-180	4220 4125 90
	ST61 ETV 200	STR61 ETV 200	4220 4125 92
ES61 ETV 100	ST81/101 ETV 200		4220 4125 91

Supported extensions (~154 mm)				Ordering No.
Tensor ES	Tensor ST	Tensor SR	Tensor STR	
	ST31 ETV 20	SR21	STR31 ETV 20	4220 3154 03
ES61 ETD 18/ 25/ 30				4220 3251 02
ES61 ETD 50/70/90/120				4220 3251 03
ES61 ETV 25	ST61 ETV 28		STR61 ETV 25	4220 3154 03
ES61 ETV 100	ST ETV 100		STR61 ETV 100	4220 3154 05
ES61 ETV 150/180	ST ETV 150-180		STR61 ETV 150-180	4220 3154 06
ES61 ETV 40/50	ST ETV 40-50		STR61 ETV 40-50	4220 1995 05
ES61 ETV 70	ST ETV 70		STR61 ETV 70	4220 1993 03
ES61 ETV 200	ST ETV 61/81/101 200		STR61 ETV 200	4220 3154 07
	ST101 ETV 270-370			4220 3154 08
	ST61/81 ETD 50-120			4220 3251 00
	ST61 ETD 15/20/30			4220 3251 02

TENSOR HANDHELD CABLE TOOL ACCESSORIES

Reaction plate for fixturing	Ordering No.
ES61 ETV-40/50	4220 1677 92
ES61 ETV-70/100	4220 1678 94
ES61 ETV-150/180	4220 1677 98
ES61 ETV-200	Included
ST10 ETV 180	4220 1677 99
ST10 ETV 200-600	Included
ST61 ETV 30, ST61/81 ETV 200	4220 1677 91
ST61 ETV 40-50	4220 1677 93
ST61/81 ETV 70	4220 1677 95
ST61/81 ETV 100	4220 1677 97
ST61/81 ETV 150-180	4220 1678 90
ST32 ETP 20 106BCR	4220 3491 00
STR31 ETV 5-20	4220 1678 91
STR61 ETV 30	4220 1677 91
STR61 ETV 40-50	4220 1677 93
STR61 ETV 70	4220 1679 84
STR61 ETV 100	4220 1677 97
STR61 ETV 150-180	4220 1678 90



Reaction plate

Lever Tensor ST / SR	Ordering No.
Lever, ST	4220 3511 81
Spoon lever, SR21	4220 4338 83
Extended lever, ST	4220 3511 85
Lock-off lever, STR	4220 5221 85
Lock-off lever, ST	4220 3511 83



Lock-off lever

TENSOR HANDHELD CABLE TOOL ACCESSORIES

Number	Spline type	Type	L/W/H	Ordering No.
1	–	Bracket	100/60/8	4220 1029 00
2	Spline type 2	Bracket	70/41/14	4210 2134 02
3		Triangular	73/72/14	4220 2137 02
4		Bar	270/35/14	4220 1903 00
5	Spline type 3	Bracket	100/50/12	4210 2219 03
6		Triangular	82/80/12	4220 2137 03
7		Bar	400/29/12	4210 2219 80
8	Spline type 6	Bracket	200/100/15	4220 1200 00
9		Triangular	112/109/15	4220 2137 06
10		Bar	560/80/15	4220 1200 01
11	Spline type 7	Bracket	250/150/20	4220 1445 00
12	Spline type 8	Bracket	250/160/20	4220 1972 00
13	–	Bracket	100/60/8	4220 1029 01
14	–	Bracket	100/60/8	4220 1029 02

For model

ST10 ETD 120	Bracket	150/100/16	4220 3677 00
ST10 ETD 200/300/500	Bracket	200/150/16	4220 3677 01
ST10 ETD 750/1000	Bracket	200/150/20	4220 3677 02
STR61 ETP 20/30	Bar	250/15/8	4220 4495 00
STR61 ETP 50/70/90/120,	Bar	270/35/14	4220 1903 00
ES61 ETD 18/25/30			
ES61 ETD 50/70/90/120	Bar		4210 2219 80
ST101 ETP 1300 HA	Square bracket		4210 4758 90
ST101 ETP 2600 HA	Square bracket		4210 4758 93
ST101 ETP 4100 HA	Square bracket		4210 4758 91
ST101 ETP 5800/8100 HA	Square bracket		4210 4758 92
ST101 ETP 1300 HA	Sliding drive		4210 4752 90
ST101 ETP 2600 HA	Sliding drive		4210 4752 93
ST101 ETP 4100 HA	Sliding drive		4210 4752 91
ST101 ETP 5800/8100 HA	Sliding drive		4210 4752 92
ST101 ETP 1300 HA	Reaction bar, S-type		4210 4480 90
ST101 ETP 2600 HA	Reaction bar, S-type		4210 4480 94
ST101 ETP 4100 HA	Reaction bar, S-type		4210 4480 93
ST101 ETP 5800/8100 HA	Reaction bar, S-type		4210 4480 92
ST101 ETP 1300 HA	Reaction bar, steel bar		4210 4757 90
ST101 ETP 2600 HA	Reaction bar, steel bar		4210 4757 93
ST101 ETP 4100 HA	Reaction bar, steel bar		4210 4757 91
ST101 ETP 5800/8100 HA	Reaction bar, steel bar		4210 4757 92

Mounting bracket is included for some tool models.

Please match the number from the table with the tool tables.



Reaction bar



Mounting bracket



Triangular



Reaction bar, S-type



Reaction bar, sliding drive



Reaction bar, steel bar



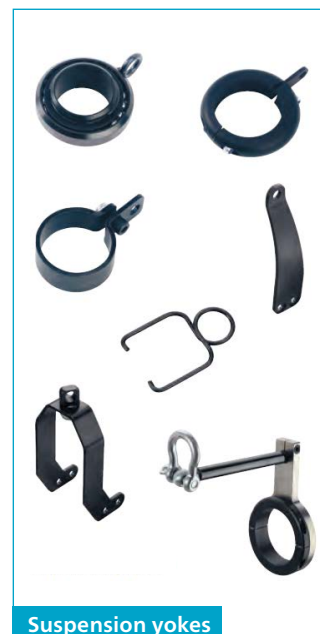
Reaction bar, square bracket

TENSOR HANDHELD CABLE TOOL ACCESSORIES

Suspension yokes	Type	Assembly	Ordering No.
ES21 ETV/ETD	Horizontal	Motor	4220 0987 82
ES61 ETV/ETD	Horizontal	Motor	4220 4586 90
ST10 ETD 120-300, ST10 ETV 270-600	Vertical	Planetary gear	4220 1418 91
ST10 ETD 500-1000	Vertical	Planetary gear	4220 1418 90
ST10 ETV 100-200	Vertical	Planetary gear	4220 1418 92
ST31/61 ETV/ETD	Horizontal	Motor	4220 2657 90
ST31/61 ETV/ETD	Fixed	Motor	4220 2843 92
ST31/61 ETV/ETD	Vertical	Handle	4220 1417 95
ST81 ETV/ETD	Horizontal	Motor	4220 0987 90
ST81 ETV/ETD	Fixed	Motor	4220 2843 91
ST101 *a ETV	Horizontal	Motor	4220 3930 90
ST101 ETP 200-1000	Adjustable	Motor	4220 4075 90
ST101 ETP BCR 200-1000 *b	Adjustable	Motor	4220 4075 91
ST101 ETP 750-2000	Swivelling	Gear	4210 3088 87
ST101 ETP 3000-4000/4100 HA	Swivelling	Gear	4210 3088 81
ST101 ETP 1300 HA	Swivelling	Gear	4210 3088 83
ST101 ETP 2600 HA	Swivelling	Gear	4210 3088 82
ST101 ETP 5800/8100 HA	Swivelling	Gear	4210 4780 90
STR ETV/ETD 31/61	Swivelling		4220 5070 80
STR ETV/ETD 31/61	Fixed		4220 5105 80
STR61 ETP	Tool upside down		4220 3037 00
STR61 ETP	Fixed, one side		4220 4334 00
STR61 ETP	Fixed, both sides		4220 4399 80
STR61 ETP 20/30/50	Swivelling		4220 4381 80
STR61 ETP 70/90/120	Swivelling		4220 4394 80
SR21	For rear		4220 4410 80
SR21	For front		4220 4409 80

*a Not telescopic.

*b To be used if barcode scanner is mounted.



Suspension yokes

Fixtured extensions	For ext + nut Ordering No.	For nut only Ordering No.
ES61 ETV 25/30/40/50, ES61 ETD 18/25/30		4220 2579 90
ES61 ETV 70/100/150/180/200, ES61 ETD 50/70/90/120		4220 2469 90
ST10 ETV 100/150/180, ST10 ETD 120	4220 3571 90	Included
ST10 ETD 150, 200, 300	4220 3572 90	
ST10 ETD 500	4220 3573 90	Included



Fixtured extension

TENSOR HANDHELD CABLE TOOL ACCESSORIES

Protective covers	Ordering No.
ST31 ETV 5-15	4220 2744 05
ST31/ST61 ETV 20-30	4220 2744 03
ST61 ETV 40-50, ST81 ETV 50	4220 2744 02
ST61 ETV 70, ST81 ETV 70	4220 2744 04
ST31 ETP 05	4220 2744 06
ST31 ETP 10	4220 2744 07
ST81/ST10 ETV 150-180	4220 2744 10
ST81/ST10 ETV 100	4220 2744 09
ST101 ETP (included)	4220 4299 00
STR31 ETV 05-15	4220 2744 05
STR31 ETV 20, STR61 ETV 20-30	4220 2744 03
STR61 ETV 40-50	4220 2744 02
STR61 ETV 70	4220 2744 04
STR61 ETV 100	4220 2744 09
STR61 ETV 150-180	4220 2744 10



Insulated covers	Ordering No.
Insulated cover for ETV STR61-70	4220 2744 59
Insulated cover for ETV STR61-50	4220 2744 57
Insulated cover for ETV STR61-30	4220 2744 51
Insulated cover for ETV STR31-15	4220 2744 53



Telescopic front part	Travel mm	Ordering No.
ST101 ETP 200	25	4220 4592 80
ST101 ETP 500	40	4210 3781 81
ST101 ETP 750/1000	50	4210 3788 80
ST101 ETP 1500	50	4210 3788 81

TENSOR HANDHELD CABLE TOOL ACCESSORIES

Operator handle	Ordering No.
STR61 ETP	4220 4487 80
ST101 ETP	4220 4522 82

Operator handle	Ordering No.
ES21 ETV/ETD	4220 2725 83
SR21 ETD	4220 4347 80
ST31/32 ETP 5-10	4220 3517 80
ST101 ETP 200/500 (included)	4220 4001 84
ST101 ETP 750/1000 (included)	4220 4001 83
STR61 ETP	4220 4343 80

Torque multiplier *a	Max. torque Nm	Gear ratio	Square in	Square out	Ordering No.
T-Mult 120	30	4.54	3/8	1/2	8431 0453 53
T-Mult 200	50	4.62	3/8	3/4	8433 0310 07
T-Mult 400	100	4.10	1/2	3/4	8431 0493 65
T-Mult 500	30	16.11	3/8	3/4	8433 0310 28
T-Mult 800	45	18.50	1/2	1	8433 0311 81
T-Mult 1000	250	4.00	3/4	1	8433 0312 16
T-Mult 1500	72	21.10	1/2	1	8433 0312 20
*a Reaction bar included.					

Tool holder	Ordering No.
ST32 ETP	4220 3584 80

Optional accessories for Tensor ST				Ordering No.
Dual trigger for open end				
ST61-S	ST31, ST61 05-50	ST31, ST61 15-30		4220 3186 90
ST61-L	ST61 70-200	ST61 50-120		4220 3186 91
ST81-S	ST81 50	ST81 30		4220 3186 92
ST81-L	ST81 70-180	ST81 50-120		4220 3186 93
ST101	ST10 100-1000	ST10 100-1000		4220 3186 96
Dual trigger for open end 135 deg.				
ST61-S	ST31, ST61 28-50	ST31, ST61 15-30		4220 3311 90
ST61-L	ST61 70-200	ST61 50-120		4220 3311 91
ST81-S	ST81 50	ST81 30		4220 3311 92
ST81-L	ST81 70-200	ST81 50-120		4220 3311 93
ST101	ST10 100-1000	ST10 100-1000		4220 3311 94



Operator handle



Support handle



Tool holder



Front button



Adjustable headlights



Lever trigger top



Lever trigger 135 deg.

TENSOR HANDHELD CABLE TOOL ACCESSORIES

EHMI for Tensor STR	Ordering No.
Fits all STR ETV and ETD	8436 6199 70



Small (S) ETV STR <50 Nm, ETD STR <30 Nm. Large (L) ETV STR >70 Nm, ETD STR >50 Nm.

Optional accessories for Tensor STR	Position/Size	Ordering No.
Dual trigger for open end	Top	
	S	8436 6199 10
	L	8436 6199 12
Dual trigger for open end 135°	Lower	
	S	8436 6199 20
	L	8436 6199 22
Front button	Top	
	S	8436 6199 30
	L	8436 6199 32
Adjustable headlights	Lower	
	S	8436 6199 40
	L	8436 6199 42
Barcode scanner	Top	
	S	8436 6199 00
	L	8436 6199 02
Scanner 2D and tag U D4, 2-in-1	Top	
	S	8433 5050 10
	L	8433 5050 11
Mounting rings	Top	
	S	8436 6199 50
	L	8436 6199 52
Mounting rings	Lower	
	S	8436 6199 60
	L	8436 6199 62



TENSOR HANDHELD CABLE TOOL ACCESSORIES



CAUTION: This device emits CDRH/IEC Class 2 laser radiation.
Do not stare into beam.

Barcode scanner	ETV	ETD	Ordering No.
ST81-S	ST81 50	ST81 30	8433 0615 30
ST81-L	ST81 70-200	ST81 50-120	8433 0615 40
STR61 ETP			8436 0999 90
ST101 ETP			8433 0615 50
STR-S	STR 31 /61	STR 31 /61	8436 6199 00
STR-L	STR61	STR61	8436 6199 02
L= 70 Nm and up, S= up to 50 Nm			

Parameter set selector	ETV	ETD	Ordering No.
ST81-S	ST81 50	ST81 30	8433 0616 25
ST81-L	ST81 70-200	ST81 50-120	8433 0616 35
ST101	ST10	ST10	8433 0616 45
STR61 ETP			8436 0999 91

I/O device module	ETV	ETD	Ordering No.
ST81-S	ST81 50	ST81 30	8433 0617 32
ST81-L	ST81 70-200	ST81 50-120	8433 0617 42
ST101	ST10	ST10	8433 0617 52

Protection	Ordering No.
Scanner protection ST31/ST32	4220 2762 10
Selector protection	4220 2917 06
I/O device protection	4220 2917 06



Barcode scanner



Parameter set selector



I/O device module



Scanner and TLS ST tag protection

TENSOR HANDHELD CABLE TOOLS ACCESSORIES

REACTION BARS

Spline dia mm	Center to tip length / Tip width / Bar thickness 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 7	500/100/20	4210 3899 02
Spline 8	500/150/20	4210 3899 03
Spline 9	500/85/20	4210 3899 80
Ø 26 mm	270/34/8	4220 3491 00
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
Ø 24 mm	100/60/8	4220 1029 00
Ø 26 mm	100/60/8	4220 1029 02
Ø 28 mm	100/60/8	4220 1029 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
S-Type reaction bar		
Spline 2	104/13.5/15	4220 1903 02
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 7	170/40/20	4210 4480 07
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
Bracket stepped		
Spline 1	70/36/13	4210 1798 02
Spline 2	70/41/14	4210 2134 02
Straight aluminum bar		
Spline 3	L = 400	4210 2219 01



Steel bar



Square steel bracket



Triangular steel bracket



S-Type reaction bar



L-Type aluminum bar



Bracket stepped



Straight aluminium bar

TENSOR HANDHELD CABLE TOOLS ACCESSORIES

Spline dia mm	Square drive in	CC distance mm	Ordering No.
Sliding drive reaction bar			
Spline 2	1/2	93-148	4210 4481 82
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 6	3/4	120-170	4210 4481 86
Spline 9	1	80-130	4210 4481 89
Spline 9	1	80-280	4210 4616 89
Extended sliding drive reaction bar			
Spline 5	1	68-112	4210 4498 80
Sliding tube reaction bar			
Spline 2	44928	93-148	4211 4481 82
Extended sliding tube reaction bar			
Spline 5	1	68-112	4210 4498 82



Sliding drive reaction bar



Extended sliding drive reaction bar



Extended sliding tube reaction bar

TENSOR HOLD AND DRIVE TOOLS ACCESSORIES

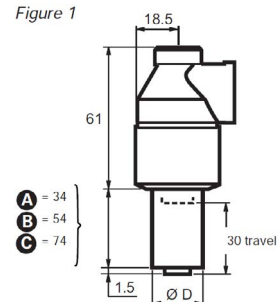
Nut socket, Screw holder and Bit holder for ETV STR61-50-HAD / ETV ST81-50-HAD

NUT SOCKET (FIG. 1)

Width across flats W mm	Socket Ø D mm	Ordering No.		
		A	B	C
10	22	4220 1769 16	4220 1769 31	4220 1769 51
11	22	4220 1769 15	4220 1769 32	4220 1769 52
12	22	4220 1769 13	4220 1769 33	4220 1769 53
13	22	4220 1769 09	4220 1769 12	4220 1769 314
14	22	4220 1769 05	4220 1769 35	4220 1769 08
15	22	4220 1769 14	4220 1769 36	4220 1769 316
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

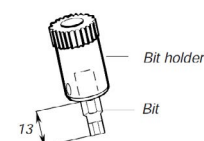
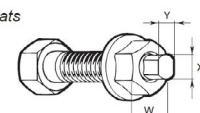
Figure 1



SCREW HOLDER

Dimensions X x Y mm	Suitable socket size mm	Ordering No.		
		A	B	C
6.6x5	10-21	4220 1770 19	-	-
7x5	10-21	-	4220 1770 17	-
8.2x5.1	10-21	4220 1770 01	-	4220 1770 16
8x6	10-21	4220 1170 02	-	-

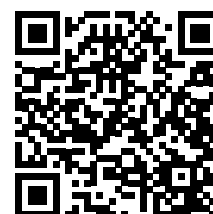
Two flats



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"



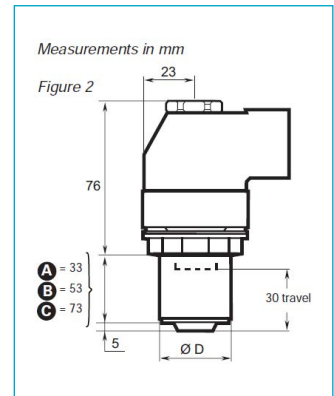
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TENSOR HOLD AND DRIVE TOOLS ACCESSORIES

Nut socket, Screw holder and Bit holder for ETV STR61-100-HAD / ETV ST81-100-HAD / ETV ST101-100-HAD

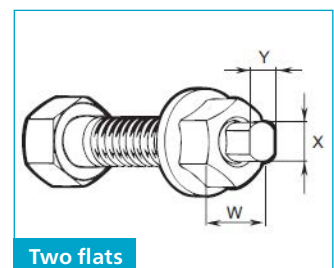
NUT SOCKET (FIG. 2)

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



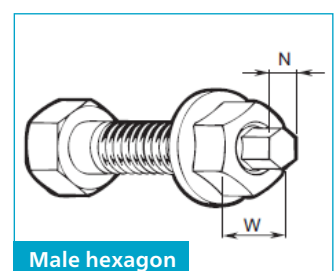
SCREW HOLDER - TWO FLATS

Dimensions 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



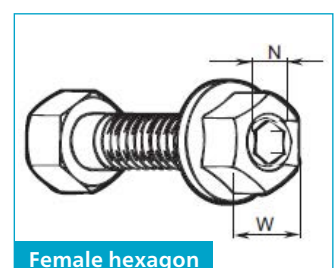
SCREW HOLDER - MALE HEXAGON

Dimensions 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



BIT HOLDER 1/4" - 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

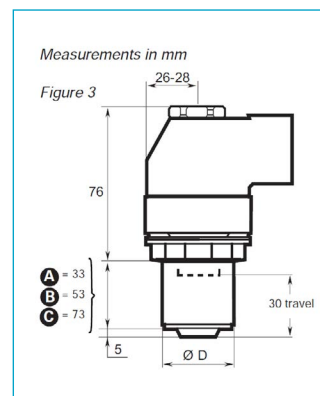


TENSOR HOLD AND DRIVE TOOLS ACCESSORIES

Nut socket, Screw holder and Bit holder for ETV STR61 / ST81-100-HAD-HD and ETV STR61 / ST81 / ST101-120/150/180/200-HAD

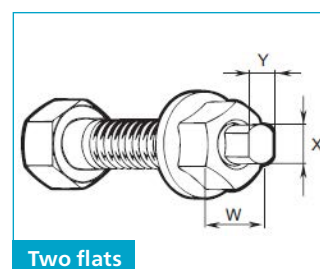
NUT SOCKET (FIG. 3)

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



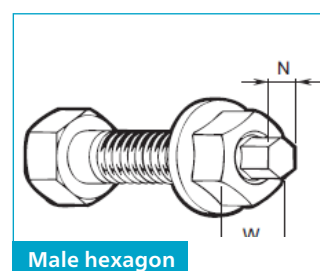
SCREW HOLDER - TWO FLATS

Dimensions X x Y mm	Suitable socket size mm	Ordering No.		
		A	B	C
8x6.3	15-24	4210 2694 17	4210 2694 18	4210 2694 19
8x6	15-24	4210 2694 05	4210 2694 10	4210 2694 15
9.55x7.6	18-24	4210 2694 01	4210 2694 06	4210 2694 11
11.20x8.9	19-24	4210 2694 02	4210 2694 07	4210 2694 12
13x9.8	19-24	4210 2694 03	4210 2694 08	4210 2694 13
13.20x10.5	19-24	4210 2694 04	4210 2694 09	4210 2694 14



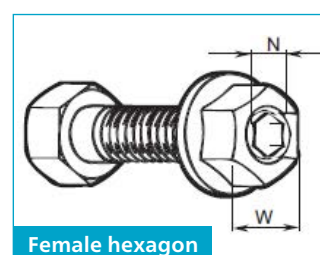
SCREW HOLDER - MALE HEXAGON

Dimensions N mm	Suitable socket size mm	Ordering No.		
		A	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



BIT HOLDER 1/4" - FEMALE HEXAGON

Bit Holder 5/16"			5/16" Bits Width N, mm	Ordering No.
A	B	C		
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

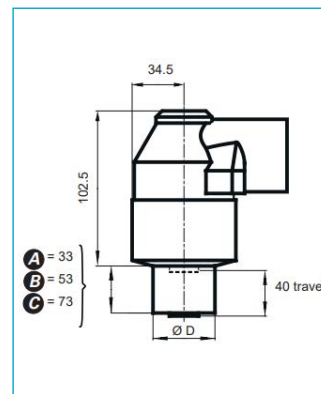


TENSOR HOLD AND DRIVE TOOLS ACCESSORIES

Nut socket, Screw holder and Bit holder for ETV ST101-270-HAD and ETV ST101-370-HAD

NUT SOCKET (FIG. 4)

Width across flats	Socket	Ordering No.		
W mm	Ø D mm	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 82
30	46	-	4220 2139 81	4220 2139 81
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



SCREW HOLDER - TWO FLATS

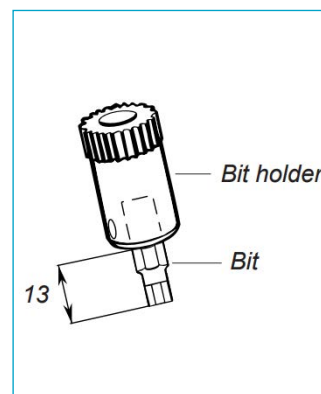
Dimensions X x Y mm	Suitable socket size mm	Ordering No.		
		A	B	C
13x9.8	18-36	4220 1770 80	4220 1770 83	4220 1770 85
13.20x10.5	18-36	4220 1770 81	4220 1770 84	4220 1770 86

SCREW HOLDER - MALE HEXAGON

Dimensions 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

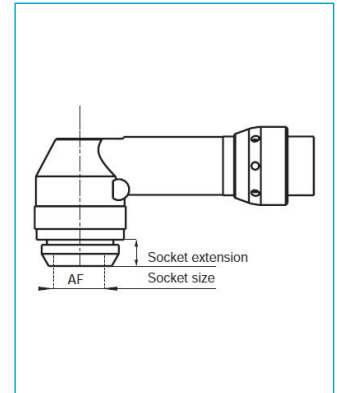
Bit holder	Socket size mm	Ordering No.		
		A	B	C
10	18-36	4220 1777 52	4220 1777 54	4220 1777 72
11	18-36	4220 1777 51	4220 1777 50	4220 1777 73
12	20-36	4220 1777 53	4220 1777 55	4220 1777 74



TENSOR FLUSH SOCKET TOOLS ACCESSORIES

INTEGRATED SOCKETS

Model	Hexagon socket size	Socket extension	Ordering No.
	mm / in	mm	
ETV ES61-30-FS and STR 61-30-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
	1/4	1.5	4220 4188 96
	5/16	1.5	4220 4188 98
ETV ES61-40-FS, STR 61-40-FS, ETV ES61-50-FS and STR 61-50-FS			
	10	2.5	4220 3987 90
	12	2.5	4220 3987 92
	13	2.5	4220 3987 93
	13	7	4220 4012 93
	13	15	4220 4013 93
	14	2.5	4220 3987 94
	14	15	4220 4013 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
ETV ES61-70-FS and STR 61-70-FS			
	14	3.5	4210 2749 04
	15	1.5	4220 1621 01
	15	3.5	4210 2749 02
	15	16.5	4220 1621 00
	16	0.5	4220 1251 00
	16	11.5	4220 1621 03
	16	14.5	4220 1621 10
	16	16.5	4220 1621 08
	17	11.5	4220 1621 12
	17.5	6.5	4220 1621 06
	18	6.5	4220 1621 02
	18	10.5	4220 1621 09
	19	8.5	4220 1621 07
	19	10	4220 1621 11
	20	8.5	4220 1621 05
	7/16	3.5	4210 2749 06
	9/16	3.5	4210 2749 05



TENSOR FLUSH SOCKET TOOLS ACCESSORIES

Model	Hexagon socket size	Socket extension	Ordering No.
	mm / in	mm	
ETV ES61-100/150/180/200-FS and ETV STR 61-100/150/180/200-FS			
	10	3.5	4220 1621 04
	12	3.5	4210 2749 03
	18	4.5	4220 1595 02
	18	14.5	4220 1595 04
	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
	21	13.5	4220 1595 05
	21	24	4220 1595 06
	22	10.5	4210 3534 22
	24	10.5	4210 3534 24
	24	12.5	4220 1595 01
	25.4	13.5	4220 1595 03
	27	13.8	4210 3534 27

Atlas Copco



Power Focus Controllers



Scan to
know more

POWER FOCUS 6000

Maximizing production uptime, enabling easy integration and changes, brings number of error-proofing solutions, provides multiple ways of new user interfaces and overall maximizing flexibility. PF6000 is a key system platform for majority of operations.

The Power Focus 6000 is the perfect choice for most demanding application, safety critical assembly as well as any other joints where quality, productivity, ergonomics, repeatability and TCO are of critical importance. It comes in one single hardware version regardless of which tool model or functionality level is used. Its powerful industrial design gives a reliable process that will speed up your tightening operations.

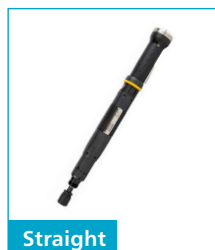
PX2 is unified software platform embedded across various hardware solutions like Power Focus 6000, PF6000 Sync, PF8, Flex System, Tensor IxB and others which we are working on. Delivering the same user experience and common functionality, no matter which platform you will use – “you know one, you know all”.

IAM's include software, tightening data and configuration – all important information in one compact format. Easy to upgrade with a rapid backup function. Two software areas allow for smart software management, enabling a much safer upgrade process, and always giving the possibility to switch between two software versions.



Power Focus 6000

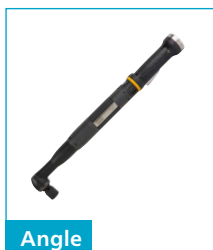
TOOL TYPES THAT CAN BE CONNECTED TO POWER FOCUS 6000



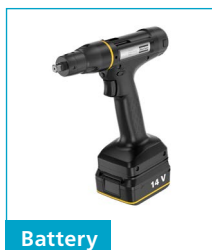
Straight



Pistol



Angle



Battery



Fixture



Special attachment

Tools supported:

MWR-S/MWR-TA, Tensor ES, Tensor SB, Tensor STB, TBP/TBP-S, Tensor SL, Tensor SRB, Tensor Revo and SRBHA, ST Wrench, STR Wrench, Tensor STR, QST.

Main technical parameters:

Accuracy:	3 types of accuracy classes: 2,5% according ISO5393; 5% according ISO5393; 7,5% according ISO5393
Torque Range:	Standard 0,3 Nm - 8000 Nm
Speed:	1 - 6000 rpm possible change during operation
Connectivity	USB, Ethernet, Fieldbus, digital I/O
Remote start	Yes
Number of tightening programs	up to 600
Target parameters	Torque, angle, based on actual joint characteristics – seating strategy, external signal reach, yield strategies
Control parameters	Torque, angle (rotation), speed, seating point, yield point
Results memory	10 000 results 10 000 graphs

FEATURES

- Complex platform with widest tool base
- Multiple tools wirelessly connected to 1 controller
- IAM
- Virtual stations concept
- Software PLC
- Industrial location guidance
- Advanced strategies (Turbo tight, True angle, Yield)
- Snug gradient – seating strategy
- Multistep strategy
- Full traceability

BENEFITS

- One controller for all type of tools
- Buy and pay the functionality you need
- Easy future extension of functionality, just buy a license and apply to controller no need to buy additional HW or prepare cabling
- Possible to transfer special functionality and license to another station [controller]
- One controller can manage 1 cable tool and 5 wireless tools or 6 wireless tools
- No ergonomic stress for operator- low reaction tools

Snug Gradient – Seating strategy:

Snug Gradient compensates for inconsistencies in hole sizes and subsequently the amount of torque required to set the screw. This feature is most commonly used when fastening into plastic, wood, or other components with high degree of variation in hole sizes. Reduces risk of stripped holes and not fully seated tightenings in inconsistent hole sizes. Reduces cost of recalls, reworks, scrapped material and quality issues and therefore reduces cost related to rework and scrapping.

Multi-tool Controller:

The Power Focus 6000 increases your flexibility in rebalancing assembly lines, helps you save floor space and reduce costs for cable installations. Atlas Copco's virtual stations concept allows you to connect several tools to one controller. Providing you an easy installation with less cables, hardware components and network drops. Reduce your power consumption, save floor space reduce your environmental footprint.

One Platform:

One platform for handheld, fixture or mechanical tools. The Power Focus 6000 reduces your inventory costs and training requirements. Easy to connect and configure back up tools, use same configuration interface. We are continuously launching further solutions compatible with this platform. Power Focus 6000 will be your common controller for all tools and needs.

TURBOTIGHT®:

TurboTight® enables the tool absorb the reaction force and significantly improves ergonomics for the operator. Shorten cycle times and at the same time improves flexibility. Less hardware means less maintenance.

IAM:

Virtual stations, software, tightening data and configuration – all in one place. IAM module with two software areas for smart software management. Allowing a safer upgrade process, always giving the possibility to switch between two software versions.

TRUEANGLE®:

TrueAngle® uses a gyroscope signal from tool to detect operator movements, increasing the accuracy of your angle readings. Enabling handheld angle controlled tightening's while removing operator influence. This allows you to narrow down your angle window, and detect the most common assembly problems such as wrong or missing components and damaged threads. Avoid premature shut-offs and detect re-hits.

Yield:

In normal torque controlled applications the tool is designed to be shut off in the elastic zone of the screw. Yield gives enough accuracy having the tool to be shut-off in the plastic zone. The plastic zone starts when the gradient starts to decrease. This makes it possible to apply higher clamp forces and with that reduce screw dimensions, reduce friction problems in screws, and therefore reduces cost related to rework and scrapping.

WHERE TO USE

- All handheld operation where is quality, productivity, reliability and ergonomics are important
- All operations where it is necessary to have full traceability
- Robotic, semi-automatic or fully automatic stations with 1 spindle

POWER FOCUS 8

All the information at your fingertips

The physical controller is the center of our common tightening platform and has the ability to connect any cable or battery tool from our wide offering.

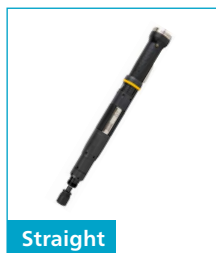
It is the hardware interface between the line and the MES system, also providing power and communication for tools and accessories.

Refreshed, modern and optimized UI style for increased visibility in different lighting conditions while reducing eye strain. Reducing set-up and configuration time, training requirements, and need for tightening knowhow/ expertise. Intuitive navigation, flow and behavior with 12 languages supported and different torque unit formats supported.



Power Focus 8

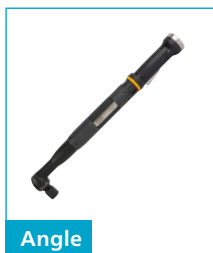
TOOL TYPES THAT CAN BE CONNECTED TO POWER FOCUS 8



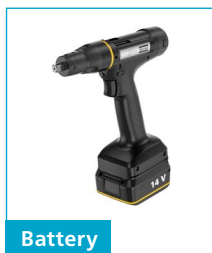
Straight



Pistol



Angle



Battery



Fixture



Special attachment

Tools supported:

MWR-S/MWR-TA, Tensor ES, Tensor SB, Tensor STB, TBP/TBP-S, Tensor SL, Tensor SRB, Tensor Revo and SRBHA, ST Wrench, STR Wrench, Tensor STR, QST.

FEATURES

- 20 Virtual Stations connected
- 4x More than previous generation
- New radio module and antennas for enhanced communication
- 4-6x increased range
- Access point mode possibility
- Unique user experience - New user interface
- Improved touchscreen responsiveness
- Faster boot up time - 45 seconds
- New main processor with 8– 10x more power
- 2 x PoE Ports
- New Fieldbus M40
- Increased number of tightening programs, and sequences
- Same proven software and licenses

BENEFITS

- One controller for all type of tools
- Buy and pay the functionality you need
- Easy future extension of functionality, just buy a license and apply to controller no need to buy additional HW or prepare cabling
- Possible to transfer special functionality and license to another station [controller]
- One controller can manage 1 cable tool and up to 20 wireless tools (via Bluetooth, WiFi infrastructure, and/or Integrated Access Point).
- No ergonomic stress for operator- low reaction tools

IAM - POWER FOCUS 8

Intelligence in the palm of your hand

100,000 results saved:

- 10 times more than previous generation
- 32 GB of storage capacity

Increased number of:

- Tightening Programs to 2000
- Source Tightening to 500
- Source Batch to 500
- Batch Sequences to 500

Software, tightening data and configuration – all important information in one compact format:

- If an issue arises, you have an easily accessible backup.

Two software areas allow for smart software management enabling:

- Safer and faster upgrade process
- The possibility to switch between two software versions

Available in two main versions:

- Empty at delivery - to be loaded with the demanded licenses
- Pre-loaded - different versions with pre-loaded software



IAM - Power Focus 8

POWER FOCUS FEATURES AND PROPERTIES

Matching tools with Virtual Stations

The Virtual Station is a digital version of a controller. It is one of the core parts of the Power Focus Offering and a key component of the tightening platform. The Virtual Station determines the tool type and functionality supported, protocol support, the type of data that is reported, and more.

Virtual Stations connect the entire system together, selecting and activating tightening programs.

- Tools and accessories
- Protocols for communication
- Data reporting

Virtual Station types

Modern assembly operations utilize many different tightening applications. Accordingly, Virtual Stations come in different types depending on the tightening application. To properly configure the best tool for the application, the correct Virtual Station type provides the required functionality to meet your requirements.

The Virtual Stations' different levels enable the control and connection of 12 different tool families.

	Supported functionalities	Main values
 Batch Control: Customer critical Creates possibility to connect shut-off tools (BCV/PRe) and click wrenches (MWR-S) to Power Focus 6000. License enables addition of OK/NOK traceability for tightening operations.	• 1 program • 1 sequence • 1 identifier • Only clutch step	• Batch counting ensures correct number of tightenings performed
 Joint Control: Quality critical For tightening applications with a limited number of variants, but where a torque controlled tool is required. Chosen where an air tool is being replaced and better control of the tightening process is needed.	• 1 program • 1 sequence • 1 identifier • Torque control • Angle monitoring	• Torque controlled and angle monitored tightenings, programing options for joints not suitable for air tools • Supports electric battery pulse tools (TBP-S)
 Station Control: Quality critical Designed for stations offering more variants. Perfect for customers looking to replace multiple air tools with one electric tool, and where torque controlled tightenings are required.	• 16 programs • 16 sequences • 1 identifier • Torque control • Angle monitoring	• Possible to replace multiple air tools with one electric tool • Supports torque controlled tightenings, improving accuracy compared to an air tool
 Critical Control: Safety critical Designed for tightening applications requiring full traceability and process control. All tightening results stored in the controller and reported to external systems with tightening results and traces. A highly flexible setup for most tightening applications.	• 250 programs • 250 sequences • 4 identifiers • Torque control • Angle control	• Supports angle controlled tightening strategies • Supports up to four VIN numbers connected to a result
 Process Control: Safety critical The highest level of Virtual Station type, built for extremely demanding tightening applications. Supports advanced tightening strategies required for safety critical tightenings with full traceability of the tightening.	• 250 programs • 250 sequences • 4 identifiers • Torque control / angle control • Advanced tightening strategies	• Supports advanced tightening strategies for safety critical tightenings • Supports up to four VIN numbers connected to a result • TrueAngle and Low Reaction Strategies included for the start

POWER FOCUS FEATURES AND PROPERTIES

Matching tools with Virtual Stations

Atlas Copco provides a full range of tightening tools, enabling you to pick the right tool for the application, with superior performance and ergonomics.

Power Focus 6000 has the possibility to connect tools from 12 families from our offer. They range from clutch tools, Mechatronic wrenches and low reaction tools to advanced transducerized tools.

Batch 	 BCP-RE		 MWR-S
	 Tensor ES	 TBP-S	 Tensor SB
Joint Station  	 MWR-TA	 Tensor STB	 Tensor STR
Station  Critical  Process 	 TBP	 SRB	 ST Wrench
	 Tensor SL	 QST	 Tensor REVO

POWER FOCUS FEATURES AND PROPERTIES

Power up your tightening stations

Give more functionality to a selected tool by adding features for specific applications.

Additional features can be added to a Virtual Station that already has a type assigned, while a controller-wide feature impacts the whole IAM.



Low Reaction Strategies



TurboTight for STR tools and TensorPulse and TurboTight for SRB tools help minimize reaction force in tightening operations.

Values:

- Improves ergonomics by eliminating reaction force; increased productivity due to faster tightening time
- Improves flexibility by eliminating reaction devices
- Reduces costs related to operator fatigue and injuries

TrueAngle



Compatible with STR tools only. Eliminates operator influence on the tightening angle during the full tightening phase. Can be added to a Critical or a Process Virtual Station.

Values:

- Improves angle control, increasing tightening quality and accuracy
- Reduces need for reaction devices, savings on equipment and installation
- Detects common assembly problems

Open Protocol Extension



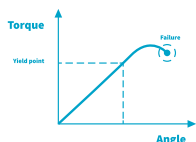
A Virtual Station feature that enables additional functionality while interacting with Open Protocol systems.

The feature has two functionalities. One is traces over Open Protocol, giving the possibility to transmit and analyze trace curve data in your interface of choice. The other allows the storing, modifying, and uploading of tightening programs in the Power Focus 6000 controller.

Values:

- Reduces defects by controlling the tightening program from an external system
- Reports tightening traces to an external system

Yield Control

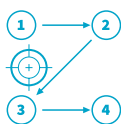


Yield Control enables a controlled strategy in the plastic zone by controlling the decrease in torque build-up when entering the plastic zone.

Values:

- Ensures consistent and high clamp force
- Gives the possibility to use smaller screws in an assembly process

Industrial Location Guidance



An integrated, stand-alone error proofing system offering high-level process security for simple to complex applications. Industrial Location Guidance tracks the exact location of the tool relative to the fastening position, ensuring the correct fasteners are tightened to specification, in the proper sequence.

Values:

- Improves quality through reduction in scrapped parts and implementation of forced order operation
- Increases productivity due to improved operator efficiency
- Reduces job setup and programming time, resulting in reduced costs

SoftPLC



A controller-wide feature added separately. Gives the possibility to combine signals from multiple Virtual Stations, replacing external PLC and handling simple levels of automation.

Values:

- Reduces external hardware in production lines
- Matches controller output with standard external PLC mappings
- Interconnects different Virtual Stations
- Achieves simple station automation
- A complete PLC solution

StepSync



A controller-wide feature normally used in multi-spindle applications.

Allows connection of up to six Power Focus 6000 controllers and synchronized tightenings of cable tools. One SyncReference handles all programing, configuration, and result handling.

Values:

- Improves control of the tightening process
- Reduces cost and installation time
- Ensures commonality in the production line by having the same controllers and tools

POWER FOCUS CONTROLLERS, IAM'S, LICENSES AND ACCESSORIES

Description	Ordering No.
Drive unit	
Power Focus 6000	8436 1800 02
Power Focus 6000 LV	8436 1800 11
Power Focus 8	8436 2800 02
Power Focus 8 LV	8436 2810 02
IAMs	
IAM Power Focus - for Power Focus 6000	8436 0910 00
IAM Power Focus Critical 1 VS - for Power Focus 6000	8436 0950 10
IAM Power Focus 32 Gb - for Power Focus 8	8436 0910 01
Virtual Station Licenses Electronic Delivery	
Virtual Station Batch Control, 1 pcs	8436 1960 10
Virtual Station Joint Control, 1 pcs	8436 1960 20
Virtual Station Station Control, 1 pcs	8436 1960 30
Virtual Station Critical Control, 1 pcs	8436 1960 40
Virtual Station Process Control, 1 pcs	8436 1960 50
Virtual Station Manual Tightening Control, 1 pcs	8436 1970 20
Software Features Electronic Delivery	
TrueAngle, 1 pcs	8436 1910 03
SoftPLC, 1 pcs	8436 1910 04
Yield Control, 1 pcs	8436 1910 06
Low Reaction Strategies, 1 pcs	8436 1910 80
Open Protocol Extension, 1 pcs	8436 1950 20
Sync Critical Control, 1 pcs	8436 1990 40
Sync Process Control, 1 pcs	8436 1990 50
Industrial Location Guidance, 1 pcs	8436 1950 10



Power Focus 6000



PF 8



IAM

POWER FOCUS ACCESSORIES

CONTROLLER HARDWARE

Model	Ordering No.
Fieldbus modules - for Power Focus 6000	
DeviceNet	8436 0940 10
Ethernet/IP 2 port	8436 0940 15
ProfiNet I/O 2 port	8436 0940 20
ProfiBus	8436 0940 05
Anybus CC – CC Link	8436 0940 25
Anybus CC – CC Link IE	8436 0940 30
Fieldbus modules - for Power Focus 8	
Anybus CC - ProfiBus AC40	8436 0941 05
Anybus CC - DeviceNet AC40	8436 0941 10
Anybus CC - Ethernet/IP AC40	8436 0941 15
Anybus CC - ProfiNet I/O AC40	8436 0941 20
Controller Accessories	
Power Focus 6000/ Power Focus 8 Mounting Stand	4222 1736 80
Power Focus 6000/ Power Focus 8 Adapter Plate	4222 1783 80
Power Focus 6000/ Power Focus 8 Security Seal	4222 1736 03
Power Focus 6000 Communication Cable 1 m	4222 1721 01
Power Focus 6000 Communication Cable 3 m	4222 1721 03
Power Focus 6000 Communication Cable 5 m	4222 1721 05
Power Focus 8 I/O Cable 1 m	4220 8800 01
Power Focus 8 I/O Cable 3 m	4220 8800 03
Power Focus 8 I/O Cable 5 m	4220 8800 05
Power Cable - EU	4222 1801 02
FMS Portable	8436 1910 99

ACCESSORIES FOR POWER FOCUS 6000 and Power Focus 8 CONTROLLERS

For more info about Power Focus accessories such as Stacklight, Operator panel, Selector 6, I/O-Hub and CAN-Converter, see chapter Total Workstation.



Saltus GFA



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SALTUS GFA - GEARED FRONT ATTACHMENTS

Customized solutions with GFAs are available on most of our tightening tools. Thanks to an optimized design of the GFAs, we offer the best performance-to-size ratio, productivity and ergonomics on torque applications in cramped spaces and on tube nuts.

PRODUCT PORTFOLIO



GFA closed-end solutions for cramped areas and hi-lite applications

Closed-end



GFA open-end solutions for tube-nut & cable-nut application

Open-end

Facts:

The Atlas Copco GFA will deliver a tailored solution with increased accessibility, ergonomics and flexibility with high quality and performance as our standard tools. Our solutions are connected with Power Focus 6000 or Power Focus 8 providing a common tightening platform and bringing high productivity, ergonomics and connectivity.



FEATURES

- Different front attachment sizes
- 90° and 110° variants
- Wide torque range
- High accuracy
- Possibility to use with different technology tools
- Additional accessories
- Different output gear models
- Possibility to set output gear extension installed upward or downward

BENEFITS

- Modular concept and automated configuration of new variants
- Higher accuracy and better performance of the tool with same or smaller size in comparison to competitors
- Reduced total cost of ownership
- Increased greasing intervals, because of special housing design and magnet inserts
- Optimized lead time
- Internal availability of spare parts

WHERE TO USE



GFA-OOT with 90° angle heads for Tube nuts.



GFA-COT with 90° and 110° angle heads with Indexing adapter.



The image shows a person's arm in a blue shirt operating a torque arm on a machine. A large blue diagonal overlay contains a technical drawing of a torque arm. The drawing includes various dimensions and labels: a circular end view with a diameter of 1330 (B4.3) and a length of 1530 (B4.2); a side view with a diameter of 1010 and a length of 1010; and a detailed view of the arm's end with dimensions 10.8, 18.5, 30.8, 10.5, and 41.8. The text 'Torque Arms' is written in white on the blue background.

Torque Arms

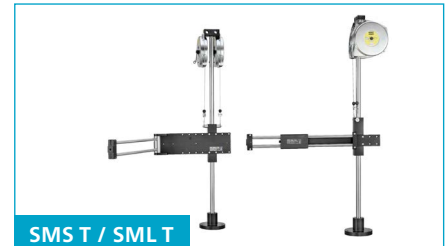


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TORQUE ARMS – STANDARD SOLUTION

Torque Arm absorb reaction force to deliver best ergonomics and safety in tightening operations by. There is a wide range of tool holders; universal holder, specific diameter holders, spline holders, swiveling holder, mounting plates with spline or hole, pistol tool holders or angle tool holders. There are available arms with encoders for sequence tracking applications or positioning. There are telescopic linear motion arms, rotating linear arms or rotating swiveling arms etc.

PRODUCT PORTFOLIO



Main technical parameters:

Capacity range:	Vary per type, in general up to 1000 Nm
Arms for positioning systems	Yes - Batch count together with OK/NOK on position
Connectivity with positioning control	Direct connection to Power Focus 6000 or Power Focus 8 with ILG software

FEATURES

- SMC telescopic carbon arm
- SMC - TT telescopic carbon arm for vertical assembly
- SML T/ SMS T ARM linear arms
- SML MK II linear arms for High torque capacity
- SMF arm with space saving design
- AX1 articulated arm
- Versions available with encoders compatible with ILG (Industrial Location Guidance)

BENEFITS

- Improves finished product quality with all torque absorbed in the joint and no movement of tool
- Light weight and smooth movements for operator comfort (best ergonomics and safety)
- Highest level of error proofing system in tightening with Tool positioning recognition system
- Robust construction for long life and no force transferred to operator
- Balancer included to remove the tool weight

WHERE TO USE

- Everywhere where are requirements for decrease the force from the tool and prevent the ergonomics stress for operator
- For application where is tightening sequence important
- To ensure highest possible accuracy of the clamp force a torque arm should be used to prevent movement of the tool
- If different joints require different tightening process
- Improve ergonomics of any table of stationary application

TORQUE ARMS

Model	Max torque		Min length	Max length	Tool holder swivel angle max [deg]	Weight		Tool holder interface type	Ordering No.
	Nm	ft lb				Kg	lb		
SMC 12 1150	12	8.9	516	1128	60	0.37	0.816	A	4390 1510 85
SMC 12 1600	12	8.9	666	1578	60	0.42	0.926	A	4390 1511 85
SMC 12 2100	12	8.9	835	2083	60	0.48	1.06	A	4390 1512 85
SMC 25 1150	25	18.4	524	1124	50	0.51	1.12	A	4390 1514 85
SMC 25 1600	25	18.4	674	1574	50	0.61	1.34	A	4390 1515 85
SMC 25 2100	25	18.4	841	2075	50	0.68	1.5	A	4390 1516 85
SMC 25 2600	25	18.4	1007	2573	50	0.77	1.7	A	4390 1517 85
SMC 50 1600	50	36.9	712	1624	40	0.95	2.09	B	4390 1518 85
SMC 50 2100	50	36.9	878	2125	40	1.05	2.31	B	4390 1519 85
SMC 50 2600	50	36.9	1045	2626	40	1.15	2.54	B	4390 1520 85
SMC 100 1600	100	73.8	722	1628	30	1.28	2.82	B	4390 1522 85
SMC 100 2100	100	73.8	889	2129	30	1.41	3.11	B	4390 1523 85
SMC 100 2600	100	73.8	1056	2630	30	1.53	3.37	B	4390 1524 85
SMC 200 1600	200	148	726	1628	20	1.98	4.37	-	4390 1526 85
SMC 200 2100	200	148	893	2129	20	2.18	4.81	-	4390 1527 85
SMC 200 2600	200	148	1060	2630	20	2.39	5.27	-	4390 1528 85
SMC 300 1600	300	221	744	1631	20	2.40	5.29	-	4390 1530 85
SMC 300 2100	300	221	911	2132	20	2.60	5.73	-	4390 1531 85
SMC 300 2600	300	221	1078	2633	20	2.81	6.20	-	4390 1532 85

Tool holder is ordered separately. Choose the appropriate balancer depending on tool weight. Order the balancer kit for easy and fast assembly.

NOTE: A: 17 mm square interface, B: 32 mm square interface. For SMC 200 and SMC 300 the tool holders connect directly to the clevis of the arm.

Tool holder SMC 300	Ordering No.
Angle tool holder SMC 300	4390 2081 50
Pistol tool holder SMC 300	4390 2081 51

TORQUE ARMS ACCESSORIES

Model	Tool dia. mm	Spline type	Arm interface type	Description	Ordering No.
Tool holders for torque arms with tool holder interface type A SMC 12/25 and SMS/L T 5/12/25 and SML MK II 10					
Universal holder	26 - 49	-	A	Max tool torque 25 Nm	4390 1510 86
Holder, Spline 1	-	1	A		4390 1513 07
Holder, diameter 30.5	30 - 30.5	-	A		4390 1513 80
Holder, diameter 34	33.5 - 34	-	A		4390 1513 81
Holder diameter 36.5	36 - 36.5	-	A		4390 1513 82
Holder diameter 38	37.5 - 38	-	A		4390 1513 83
Holder diameter 44	43.5 - 44	-	A		4390 1513 84
Holder diameter 46	45.5 - 46	-	A	To be used with adapter	4390 1513 85
Special adapters to be used with dia 46 mm tool holder					
				LUM10 PR	4390 1734 09
				ELI	4390 1734 08
				LUM21 PR-P	4390 1735 44
				LUM12 SR	4390 1735 52
				LUM12 PR	4390 1735 53
				LUM22 PR	4390 1735 54
Holder diameter 56	55.5-56	-	A	To be used with adapter	4390 1513 86
Special adapters to be used with dia 56 mm tool holder					
				LUM21 SR	4390 1735 45
				LUM22 SR	4390 1735 51
Mounting plate, Spline 1	-	1	A		4390 2020 00
Mounting plate, Spline 2	-	2	A		4390 2020 01
Mounting plate, hole 24	24	-	A		4390 2020 02
Mounting plate, hole 26	26	-	A		4390 2020 03
Mounting plate, hole 28	28	-	A		4390 2020 04
Mounting plate, blank	-	-	A		4390 2020 05
Tool holders for torque arms with tool holder interface type B, SMC 50/100 and SMS/L T 50/100 and SML MK II 40/80					
Holder, Spline 1	-	1	B		4390 1513 08
Holder, Spline 2	-	2	B		4390 1513 09
Holder, Spline 3	-	3	B		4390 1513 10
Holder, hole 24	24	-	B		4390 1518 22
Mounting plate, Spline 1	-	1	B		4390 2021 00
Mounting plate, Spline 2	-	2	B		4390 2021 01
Mounting plate, Spline 3	-	3	B		4390 2021 02
Mounting plate, hole 24	24	-	B		4390 2021 03
Mounting plate, hole 26	26	-	B		4390 2021 04
Mounting plate, hole 28	28	-	B		4390 2021 05
Mounting plate, blank	-	-	B		4390 2021 06

TORQUE ARMS ACCESSORIES

Model	Tool dia. mm	Spline type	Arm interface type	Description	Ordering No.
Mounting plates for SML MK II 150/300/500/1000 torque arms, tool holder interface type C					
Mounting plate, Spline 1	-	1	C		4390 1760 00
Mounting plate, Spline 2	-	2	C		4390 1761 00
Mounting plate, Spline 3	-	3	C		4390 1762 00
Mounting plate, Spline 4	-	4	C		4390 1763 00
Mounting plate, Spline 5	-	5	C		4390 1764 00
Mounting plate, Spline 6	-	6	C		4390 1765 00
Mounting plate, Spline 7	-	7	C		4390 1766 00
Mounting plate, QST50	-	-	C		4390 1782 00
Mounting plate, QST62	-	-	C		4390 1783 00
Mounting plate, QST90	-	-	C		4390 1785 00
Extension mounting plate	-	-	C		4390 1768 00
Pistol tool holders for SMC carbon arms					
Pistol holder, hole 24	24	-	-	For SMC 50	4390 1518 18
Pistol holder, Spline 2	-	2	-	For SMC 100	4390 1522 18
Pistol holder, Spline 2	-	2	-	For SMC 200	4390 1526 18
Pistol holder, Spline 3	-	3	-	For SMC 200	4390 1513 11
Tool holder connects directly to the clevis of the arm.					

Angle tool holders	Description	Ordering No.
Angle tool holders for SMC carbon arms, SMC 50		
	LTV38-R50-13, LTV38-R42-13	4390 2062 80
	LTV38-R50-HAD, LTV38-R42-HAD	4390 2062 81
	LTV38-R50-10, LTV38-R42-10	4390 2062 82
	LTV39-2 R30-10, LTV39-2 R37-10, LTV39-2 R48-10	4390 2062 83
	ETV STR61-40-10, ETV STR61-40-HAD, ETV STB64-40-10, ETV STB64-50-10	4390 2062 84
	ETV STB34-30-10, ETV STR61-30-10, ETV STB64-30-10	4390 2062 85
	LTV39-2 R48-13	4390 2062 86
	LTV29-2 R30-10	4390 2062 87
	ETV S72-30-10, ETV S42-30-10	4390 2062 88
	ETV S72-40-10	4390 2062 89
	ETV DS72-40-10	4390 2062 90
Tool holder connects directly to the clevis of the arm.		
NOTE: 4390 2062 88 is attached to the arm by the arm tool holder interface B.		

TORQUE ARMS ACCESSORIES

Angle tool holders	Description	Ordering No.
Angle tool holders for SMC carbon arms, SMC 50		
	ETV ST81-100-13, ETV STR61-100-13, ETV STB64-100-13	4390 2061 80
	ETV DS72-70-HAD	4390 2061 81
	ETV STB64-70-13, ETV ST81-70-13-L150, ETV ST81-70-13,	4390 2061 82
	ETV STR61-70-13, ETV ST81-90-HAD, ETV STR61-100-HAD	
	ETV S72-50-10/B10, LTV39-2 R70-13, LTV39-2 R56-13, ETV S7-50-10	4390 2061 83
	LTV39-2 R85-13	4390 2061 84
	LTV38-R85-13	4390 2061 85
	LTV38 R85-HAD	4390 2061 86
	ETV ST81-50-10, ETV STR61-50-HAD, ETV STR61-50-10, LTV39-2, R56-10	4390 2061 87
	ETV ST101-100-HAD, ETV ST101-100-13	4390 2061 88
	ETV ST101-100-INTEL, ETV S72-100-13	
	LTV38 R70-13	4390 2061 89
	LTV38 R57-13	4390 2061 90
	ETV DS72-70-13	4390 2061 91
	ETV DS92-100-13	4390 2061 92
	ETV S72-70-13	4390 2061 93
	ETV DS72-50-HAD, ETV DS72-50-10	4390 2061 94
Tool holder connects directly to the clevis of the arm.		
Angle tool holders for SMC carbon arms, SMC 200		
	ETV STR61-200, ETV ST81-200	4390 1513 87
	ETV ST101-180-13 / 13-F / 13-M / 13-M-F, ETV ST101-180-B13 / B13-F	4390 2060 80
	ETV S72-150-13 / B13, ETV S72-180-13 / B13, ETV S92-180-13	
	ETV STR61-150-13 / B13, ETV STR61-180-13 / B13	4390 2060 81
	ETV ST81-150-13 / B13, ETV ST81-180-13 / B13	
	ETV DS92-180-13	4390 2060 82
	ETV DS72-160-13 / B13, ETV DS72-180-13 / B13	4390 2060 83
	LTV48 R120-L13 / R150-L13 / R200-L13	4390 2060 84
	LTV69 R180-13, LTV69 N180-13	4390 2060 85
	LTV48 R120-HAD / R150-HAD / R200-HAD,	4390 2060 86
	LTV48 R120-FS / R150-FS / R200-FS	

TORQUE ARMS ACCESSORIES

Angle tool holders	Description	Ordering No.
Angle tool holders for SMC carbon arms, SMC 50		
	ETV STR61-150-FS / 180-FS, ETV ST81-150-FS / 180-FS	4390 2060 87
	ETV STR61-120-HAD / 150-HAD / 180-HAD	
	ETV ST81-120-HAD / 150-HAD / 180-HAD	
	ETV ST101-180-FS / FS-F, ETV ST101-180-Intel / Intel-F	4390 2060 88
	ETV ST101-180-HAD / HAD-F	
	ETV DS72-160-FS, ETV DS72-100-HAD / 160-HAD	4390 2060 89
	ETV DS72-100-13 / B13	4390 2060 90
Tool holder connects directly to the clevis of the arm.		
Optional accessories for SMC carbon arms		
Bench stand	Bench stand with height 753 mm.	4390 1728 00
Holder must be ordered separately		
Holder for bench stand	Stand attachment 12-25 Nm	4390 1510 88
	Stand attachment 50-100 Nm	4390 1518 88
SMC 200 should not be used with table stand		
Table clamp	Clamp for heavy duty applications, 22-82 mm	4390 1734 02
Balancer kit	SMC Balancer adaptor kit for RIL 1C-5C and WP10	4390 2050 00
	SMC Balancer adaptor kit for WP05	4390 2078 80
Optional accessories for SML/SMS T-series and SML MK II		
Horizontal adapter (handle mount)		4390 1770 00
Vertical adapter (handle mount)		4390 1769 00
Start handle	(electric, 1 signal)	4390 1772 00
	(electric, 2 signal)	4390 1773 00
	(pneumatic)	4390 1771 00
Heavy duty start handles	(electric, 1 signal)	4390 1772 01
	(electric, 2 signal)	4390 1773 01
	(pneumatic)	4390 1771 01
Heavy duty handgrip (dead)		4390 1786 01
Handgrip (dead handle)		4390 1786 00
Remote start cable	3 m	4390 1774 00
	5 m	4390 1775 00
	10 m	4390 1776 00
Extension remote start cable	10 m	4390 1778 00
	15 m	4390 1779 00
Y- piece connector (for 2 x electric handles)		4390 1777 00

NOTE: For forward and reverse tool operation, a 2 signal handle is required (electric tools only).



Atlas Copco

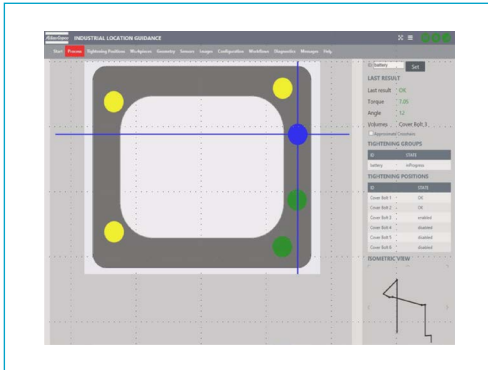


Industrial Location Systems



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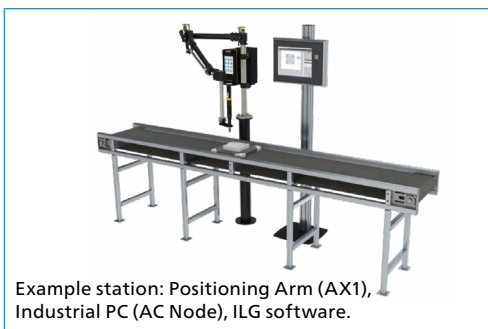
INDUSTRIAL LOCATION GUIDANCE - ILG



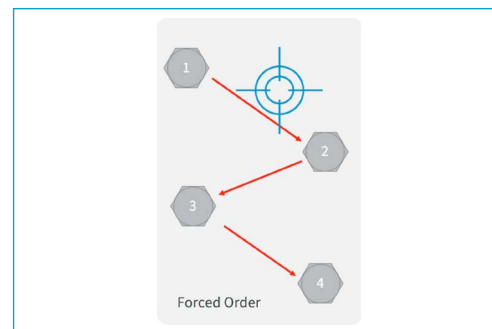
The Atlas Copco's Industrial Location Guidance (ILG) is an integrated, stand-alone error proofing software that offers high-level process security for applications ranging from simple to complex. ILG tracks the exact location of the tool relative to the fastening position, ensuring the correct fasteners are tightened to specification, in the proper sequence.

Comprised of ILG software, positioning hardware and tightening controller, the system combines the functionality of a tightening system with position and process control.

Typical applications for ILG include: low-volume, high-value component assembly, repairs stations and flexible assembly cells.



Example station: Positioning Arm (AX1), Industrial PC (AC Node), ILG software.



Main technical parameters:

Industrial Location Guidance (ILG)	Software solution
PF6000	Embedded license available via FMS
Industrial PC	Special license
Scalable Quality Solution (SQS3)	Compatible
Hardware compatibility	All Atlas Copco arms (AX1, SMS, SMC) and camera sensors

FEATURES

- Monitors the location of the tool in the working area
- Guides the operator through the correct work sequence
- Automatically selects the tightening parameters for the current position
- Ensures the correct fasteners are tightened to specification
- Unique P-Set selection for each position for full traceability

BENEFITS

- Ensures consistent production quality through process security regardless of operator
- Provides tightening data based on location
- Provides assembly traceability
- Reduces the need for additional quality checks later
- Balancer included to remove the tool weight

WHERE TO USE

- Everywhere where positioning is needed.
- Everywhere where you need to have traceability up to the join level.

INDUSTRIAL LOCATION MAPPING – ILM

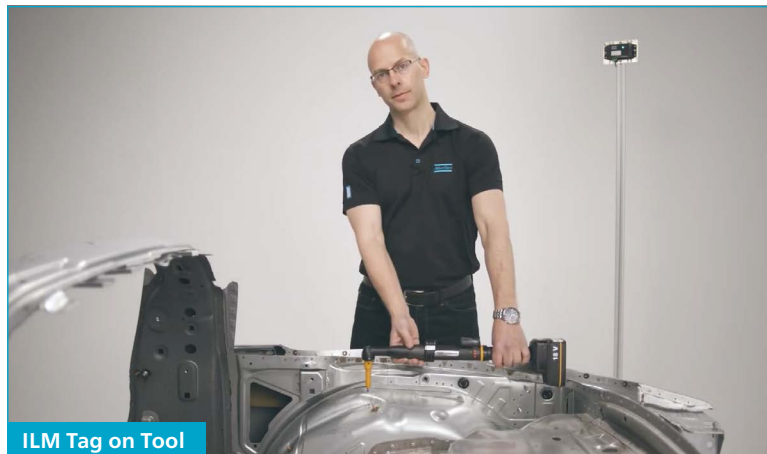
Atlas Copco's Industrial Location for Moving lines (ILM) can handle your complete production line or parts of a line. It can help you minimize reworking and will make line rebalancing simpler. All this can save you time, reduce unnecessary costs, and increase productivity.

ILM is a tool-location solution that will ensure that your tools only operate where they are supposed to at the right time. ILM's simple infrastructure can help you perform easy rebalancing and enjoy the freedom and flexibility of battery tools – without decreasing production safety in stop-and-go lines or in moving lines. In addition, there is no need for a server.

This standalone, tool-location solution ensures that battery tools only operate in their permitted area. The simple infrastructure of Industrial Location for Moving lines helps users perform easy line rebalancing.



ILM Anchor



ILM Tag on Tool

FEATURES

- Wireless positioning technology
- Real time tool tracking and tool orientation detection
- ILM Anchor reference points for ultra-wideband-radio localization.
- High accuracy up to 10-50 cm
- 24 V power or power via an Ethernet cable (PoE)

BENEFITS

- Stand-alone solution, no need for a server
- Simple set-up
- No software interfaces are required and the system can also be connected directly via Open Protocol
- Tags and anchors communicate with each other via UWB radio technology, which will not interfere with Wi-Fi and Bluetooth in the plant

WHERE TO USE

The tool-location solution consists of ILM Tags and Anchors that communicate with each other through ultra wideband-radio technology. In this way the tool orientation detection ties a tool to a specific position with set orientation conditions and safeguards that the tool only works (is enabled) where it is supposed to.

There are two different ways to work with ILM:

- Basic mode - an effective solution for stop-and-go lines.
- Managed mode - the best choice for moving lines.

INDUSTRIAL LOCATION SPOTPOINT – ILS 2.0

The Atlas Copco's Industrial Location SpotPoint (ILS) is a wireless positioning system with high accuracy.

ILS tracks the exact location of the tool relative to the fastening position, ensuring the correct fasteners are tightened to specification, in the proper sequence. The positioning hardware includes passive tool tags mounted on the top of the tool and receiver which calculate position of the tool.

Multiple Atlas Copco tool models are compatible with the ILS system and various positioning configurations are available to meet the customer request.



ILS Sensor



Tool Tags



Example station

FEATURES

- Wireless positioning technology with passive tool tags
- High accuracy up to 10mm bolt to bolt
- Interconnected cameras
- Tool interlock based on position

BENEFITS

- Increase process efficiency
- Traceability to the bolt level
- Decrease scrap and quality issues
- Process control

WHERE TO USE

- Production where is necessary store data and traceability up to the bolt level.
- Moving lines where bolt level accuracy of battery tools is needed.
- Anywhere where traceability and process control are needed.

Atlas Copco

Fixtured Assembly Systems



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PF6 FLEXSYSTEM

New tightening system build on same configuration interface with Power Focus 6000 for maximum commonality and standardization. Enables new ideas about layout of tightening stations. Compact solution can be mounted directly on robot arm or directly on movement axis where are mounted also tightening spindles (small, lightweight, compact and durable units). This new system support also new standards like Profisafe function. As standard functionality of this system is also automatic repair management system if something with tightening goes wrong.

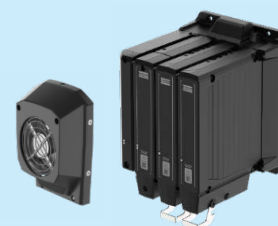
PRODUCT PORTFOLIO



3 or 6 slot Carrier system

Main technical parameters:

Accuracy:	+/- 2,5% according ISO5393
Torque Range:	2 - 1750 Nm; Custom design even higher torque; Flex can handle any QST spindle size/torque
Speed:	0 - 3000 rpm
Connectivity	Ethernet, Fieldbus, digital I/O
Remote start	Yes
Number of tightening programs	Up to 600
Target parameters	Torque, angle, based on actual parameters – seating strategy
Control parameters	Torque, angle (rotation), speed, seating point



Flexfan

Flexfan for heavy-duty cycles. Their speed is controlled depending on the temperature of the drives. Flexfan should be added to all tools above 350 Nm to achieve maximum productivity.

FEATURES

- Flexible integration possibilities
- Basic configuration via browser
- Maintenance/ Troubleshooting easily performed, easy to replace
- Integrated software PLC
- Compact solution can be mounted on robot head
- Easy and intuitive programming
- Simple automatic repair management
- Exchangable Power Heads

BENEFITS

- Less cable stress – no cable tray with long cable and complex installations
- Increased uptime
- Facilitated serviceability
- Possible to create compact assembly station no need cabinet can be mounted anywhere

WHERE TO USE

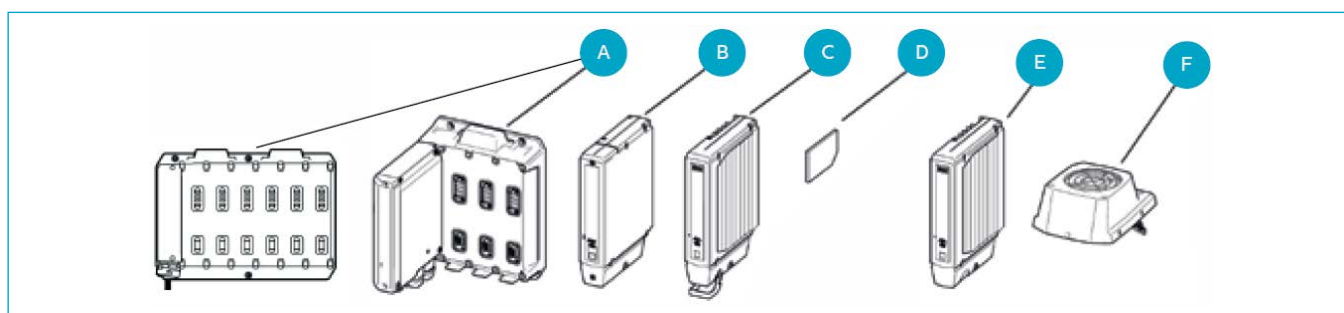
- Fixed applications where robot carries both controller and spindles
- Fully automated and semi-automated assembly stations.
- Multi-spindle applications

PF6 FLEXSYSTEM

PF6 FLEXSYSTEM COMPONENTS

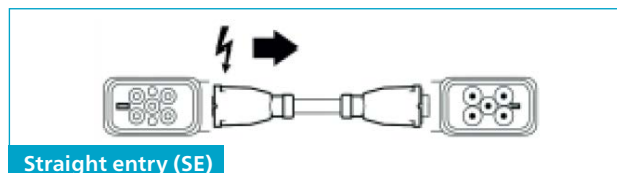
Description	Ordering No.
A FlexCarrier 3 slot	8436 1500 03
A FlexCarrier 6 slot	8436 1500 06
B FlexController Anybus	8436 1500 10
B FlexController ProFISafe	8436 1500 01
B FlexController CIPSafety	8436 1500 11
C FlexDrive	8436 1500 02
D FlexIAM Generic	8436 1500 21
E FlexBlank	8436 1500 07
F FlexFan	8436 1500 04

Name	Ordering No.
AnyBus CC - Probus DPV1	8436 0940 05
AnyBus CC - DeviceNet	8436 0940 10
AnyBus CC - Ethernet/IP 2 PORT	8436 0940 15
AnyBus CC - Pronet IO 2 PORT	8436 0940 20
AnyBus CC - CC LINK	8436 0940 25
AnyBus CC - CC LINK IE	8436 0940 30



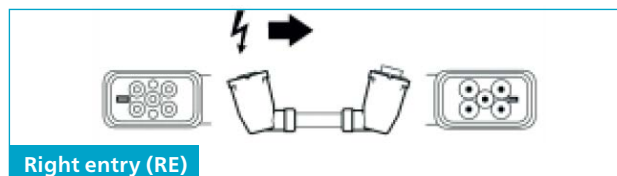
POWER CABLES

Model	Length	Ordering No.
PF6 Flex SE 1 m	1 m	4222 1948 01
PF6 Flex SE 2 m	2 m	4222 1948 02
PF6 Flex SE 3 m	3 m	4222 1948 03
PF6 Flex SE 5 m	5 m	4222 1948 05
PF6 Flex SE 10 m	10 m	4222 1948 10



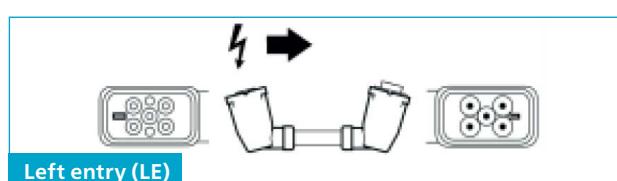
Model	Length	Ordering No.
PF6 Flex RE 0.22m	0.22 m	4222 1946 11
PF6 Flex RE 0.365m	0.365 m	4222 1946 12

Right entry (RE) power cables are used when the FlexCarriers are mounted horizontally.



Model	Length	Ordering No.
PF6 Flex LE 0.22m	0.22 m	4222 2082 11
PF6 Flex LE 0.365m	0.365 m	4222 2082 12

Left entry (LE) power cables are used when FlexCarriers are mounted horizontally.

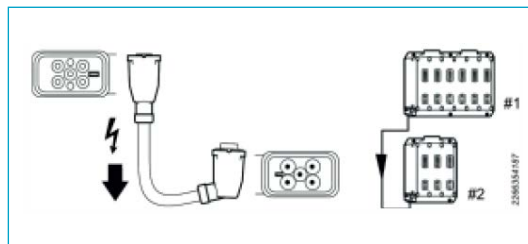


PF6 FLEXSYSTEM ACCESSORIES

POWER CABLE, STRAIGHT TO RIGHT ENTRY (SRE)

Model	Length	Ordering No.
PF6 Flex SRE 0.65m	0.65 m	4222 2083 11

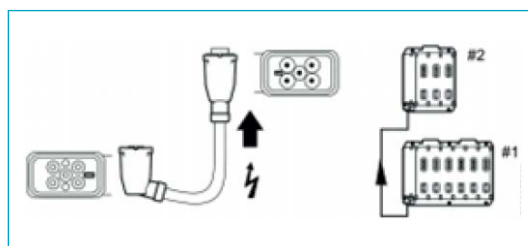
Use straight to entry (SRE) power cables when the FlexCarriers are mounted vertically top down, that is, the first FlexCarrier mounted above second FlexCarrier.



POWER CABLE, RIGHT ENTRY TO STRAIGHT (RES)

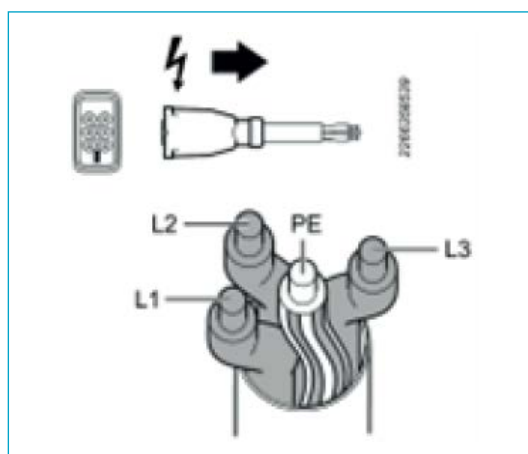
Model	Length	Ordering No.
PF6 Flex RES 0.65m	0.65 m	4222 2084 11

Use straight to entry (RES) power cables when the FlexCarriers are mounted vertically bottom up, that is, the first FlexCarrier mounted below second FlexCarrier.



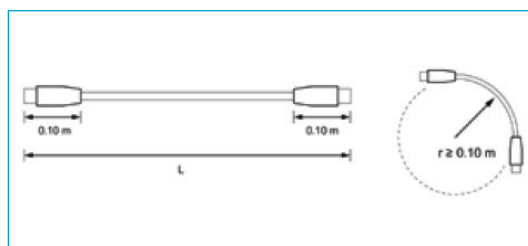
POWER CABLE, OPEN END (OE)

Model	Length	Ordering No.
PF6 Flex OE-EU 3 m	3 m	4222 1887 03 (EU)
PF6 Flex OE-US 3 m	3 m	4222 3147 03 (US)
PF6 Flex OE-orange 3 m	3 m	4222 3189 03 (orange)
PF6 Flex OE-EU 10 m	10 m	4222 1887 10 (EU)
PF6 Flex OE-US 10 m	10 m	4222 3147 10 (US)
PF6 Flex OE-orange 10 m	10 m	4222 3189 10 (orange)
PF6 Flex OE-EU 30 m	30 m	4222 1887 30 (EU)
PF6 Flex OE-US 30 m	30 m	4222 3147 30 (US)
PF6 Flex OE-orange 30 m	30 m	4222 3189 30 (orange)



CONTROL CABLES

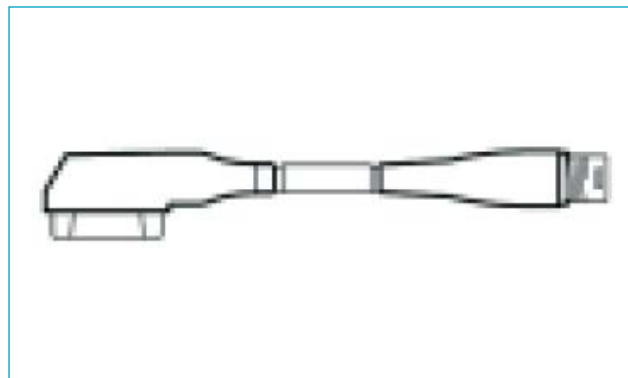
Model	Length	Ordering No.
PF6 Flex 440 mm	440 mm	4222 2062 01
PF6 Flex 590 mm	590 mm	4222 2062 04
PF6 Flex 820 mm	820 mm	4222 2062 03
PF6 Flex 1 m	1 m	4222 2062 11
PF6 Flex 2 m	2 m	4222 2062 12
PF6 Flex 3 m	3 m	4222 2062 13
PF6 Flex 5 m	5 m	4222 2062 15
PF6 Flex 10 m	10 m	4222 2062 20



PF6 FLEXSYSTEM ACCESSORIES

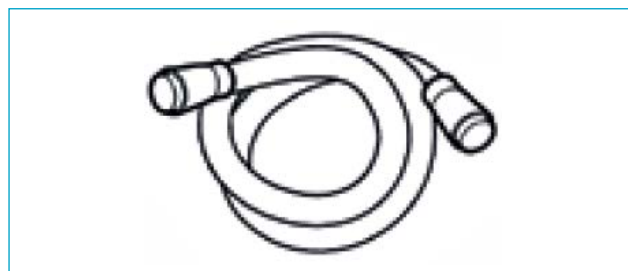
FLEX - QST TOOL CABLES

Model	Length	Ordering No.
PF6 Flex-QST 1 m	1 m	4220 5272 01
PF6 Flex-QST 1.25 m	1,25 m	4220 5272 11
PF6 Flex-QST 1.5 m	1,5 m	4220 5272 12
PF6 Flex-QST 2 m	2 m	4220 5272 02
PF6 Flex-QST 3 m	3 m	4220 5272 03
PF6 Flex-QST 5 m	5 m	4220 5272 05
PF6 Flex-QST 7 m	7 m	4220 5272 07
PF6 Flex-QST 10 m	10 m	4220 5272 10
PF6 Flex-QST 15 m	15 m	4220 5272 15



POWER MACS - QST TOOL CABLES AND FLEX EXTENSION CABLES

Model	Length	Ordering No.
QST Tool Cable	2 m	4220 3799 02
QST Tool Cable	3 m	4220 3799 03
QST Tool Cable	5 m	4220 3799 05
QST Tool Cable	7 m	4220 3799 07
QST Tool Cable	8 m	4220 3799 08
QST Tool Cable	10 m	4220 3799 10



The QST tool cable can be used to extend the PF6 FlexTool cable from the tool to the FlexDrive.

QST TOOL ROBOTIC CABLES

Model	Length	Ordering No.
QST Robotic Cable	4.5	4220 5399 04
QST Robotic Cable	5	4220 5399 50
QST Robotic Cable	5.8	4220 5399 05
QST Robotic Cable	7	4220 5399 70
QST Robotic Cable	10	4220 5399 10
QST Robotic Cable	15	4220 5399 15

MSB AND DB POWER SUPPLY

Main Switch Box – MSB

The MSB is used for power distribution and makes power management easy. It is designed be fed with 380-480 V AC 3-phase without requiring an external transformer. The MSB leaves room for customer adaptations and the E-stop functionality can be upgraded from class 3 to class 4. Each MSB supplies up to 6 controllers with power.

Distribution Box – DB

The DB provides the same functionality as the MSB except for the main switch and is used as a complement to the MSB for systems with more than 6 channels.



Model	Ordering No.
MSB	
Main switch box (Max 6 channels)	8435 5660 00
DB	
Distribution box (Max 6 channels) + Power cable 1800 mm	8435 6560 50

MSB AND DB ACCESSORIES

ETHERNET CABLES

Length	Ordering No.
0.5 m	4222 1246 00
1 m	4222 1246 01
2 m	4222 1246 02
3 m	4222 1246 03
5 m	4222 1246 05
10 m	4222 1246 10
15 m	4222 1246 15



Ethernet cable

E-STOP CABLES AND TERMINATION

Components	Length	Ordering No.
E-stop cable	1200 mm	4222 1247 12
E-stop cable	3000 mm	4222 1247 30
E-stop termination		4222 0755 00



E-stop cable

POWER CABLES BETWEEN MSB AND TC

Suitable for	Length	Ordering No.
TC1-TC2, TC7-TC8, TC13-TC14	1350 mm	4222 1248 13
TC3-TC4, TC9-TC10, TC15-TC16	1650 mm	4222 1248 16
TC5-TC6, TC11-TC12, TC17-TC18	1950 mm	4222 1248 19
For longer distances	5 m	4222 1248 50
	10 m	4222 1370 10
	15 m	4222 1370 15
	20 m	4222 1370 20



Power cable between MSB and TC

INDICATOR BOX AND CABLE

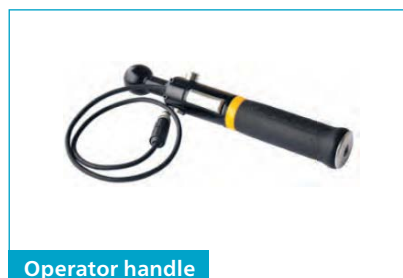
Model	Length	Ordering No.
Indicator box		8435 3010 04
Indicator box cable to PM4K	1 m	4243 0278 80
Open end cable	5 m	4243 0281 05
Extension cable		
	3 m	4243 0282 03
	5 m	4243 0282 05
	10 m	4243 0282 10
	15 m	4243 0282 15
	20 m	4243 0282 20
	25 m	4243 0282 25



Indicator box

OPERATOR HANDLE

Model	Length	Ordering No.
Operator handle (ball joint/handle)		
	front/plastic	8435 3030 00
	front/rubber	8435 3030 01
	rear/plastic	8435 3030 02
	rear/rubber	8435 3030 03



Operator handle

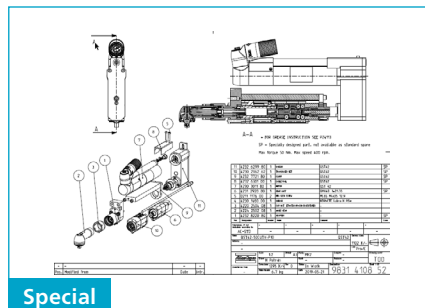
PRODUCT PORTFOLIO



Straight



Angle



Special

Main technical parameters:

Accuracy:	+/- 2,5% according ISO5393
Torque Range:	Standard: 2 – 1750 Nm Special: 2 – 32 000 Nm
Speed:	0 - 3000 rpm
Connectivity	Ethernet, Fieldbus, digital I/O (via Flex system)
Remote start	Yes
Number of tightening programs	Up to 600
Target parameters	Torque, angle, based on actual parameters – seating strategy, yield point, multi spindle synchro
Control parameters	Torque, angle (rotation), speed, seating point, yield point
Results memory	10 000 results 10 000 graphs
Extras	QST ~ maintenance interval 1 Million cycles

FEATURES

- Modular plug-and-play system
- DynaTork™ – Unique torque recovering strategy patented by Atlas Copco. Delivers optimized fastening through improved clamp loading
- Optional spindle versions with dual torque transducers (CTT) and dual torque transducers with dual angle encoders (CATT)
- Hotswap - replace cable or spindle without turning off the power

WHERE TO USE

- Multispindle application
- Fixture application which are integrated in machine
- Robotics, semi-automatic or fully automatic applications.

BENEFITS

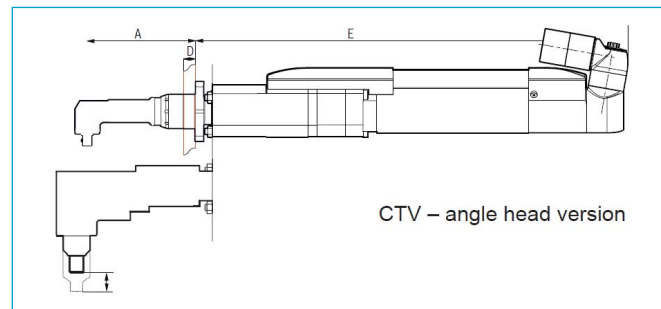
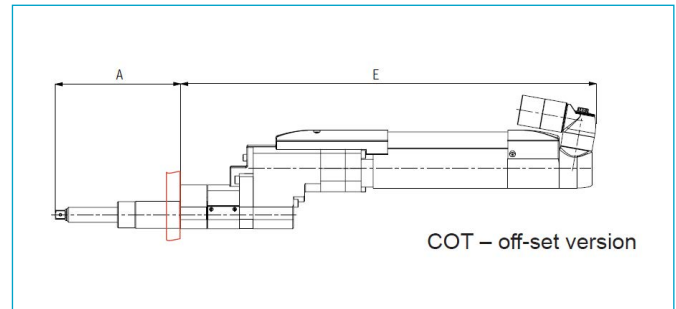
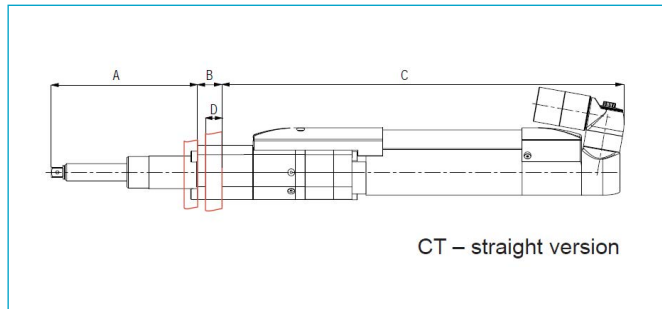
- Synchronization of multiple spindles used together
- Service interval 1 000 000 cycles
- Integrated repair management strategy
- System does not require cabinet therefore it saves floor space
- Integrated Software PLC – save external PLC on some applications
- Low maintenance, long lifetime, superb durability
- Reduce downtimes through automatic repair management

Model	Travel	Torque range		Speed	Min	Weight		Gear ratio	Square	Ordering No.
	mm	Nm	ft lb	r/min	C-C	Kg	lb		in	
QST34-8CT-T50-L150-H6	50	2-8	1.5-6	3000	34	2	4.4	7.428	1/4	8435 6000 10
QST34-20CT-T50-L150-H10	50	4-20	2.9-14.7	1000	34	2	4.4	21.2	3/8	8435 6010 10
QST42-20CT-T50-L134-H10	50	6-20	4-14	2000	43	3.1	6.9	7.50	3/8	8435 6020 10
QST42-20COT-T50-L134-H10	50	6-20	4-14	2000	31	4.2	9.3	7.5	3/8	8435 6020 20
QST42-50CT-T50-L134-H13	50	10-50	7-35	700	43	3.8	8.4	21.33	1/2	8435 6030 10
QST42-50COT-T50-L134-H13	50	10-50	7-35	700	31	4.5	9.9	21.33	1/2	8435 6030 20
QST50-90CT-T50-L137-H13	50	20-90	15-65	650	51	5.8	12.7	18.21	1/2	8435 6040 10
QST50-90COT-T50-L137-H13	50	20-90	15-65	650	37	7.8	17.2	18.21	1/2	8435 6040 20
QST50-150CT-T50-L137-H13	50	30-150	22-110	380	51	5.8	12.8	31.24	1/2	8435 6050 10
QST50-150COT-T50-L137-H13	50	30-150	22-110	380	37	7.8	17.2	31.24	1/2	8435 6050 20
QST62-150CT-T50-L152-H13	50	30-150	22-110	450	63	10.2	22.5	13.94	1/2	8435 6060 10
QST62-150COT-T50-L152-H13	50	30-150	22-110	450	45	12.8	28.2	13.94	1/2	8435 6060 20
QST62-230CT-T50-L152-H19	50	40-230	29-170	330	63	10.2	22.5	19.04	3/4	8435 6065 10
QST62-230COT-T50-L152-H19	50	40-220	29-162	330	45	12.8	28.2	19.04	3/4	8435 6065 20
QST62-350CT-T50-L152-H19	50	50-350	37-258	220	63	10.2	22.5	28.33	3/4	8435 6070 10
QST62-350COT-T50-L152-H19	50	50-330	37-243	220	45	12.8	28.2	28.33	3/4	8435 6070 20
QST80-450CT-T50-L146-H19	50	90-450	66-332	260	81	16.7	37	22.67	3/4	8435 6075 10
QST80-450COT-T50-L146-H19	50	90-450	66-332	260	55	21	46	22.67	3/4	8435 6075 20
QST80-600CT-T50-L146-H19	50	120-600	88-442	200	81	17	37	29.56	3/4	8435 6080 10
QST80-600COT-T50-L146-H19	50	120-600	88-442	200	55	21	46	29.56	3/4	8435 6080 20
QST90-750CT-T50-L152-H25	50	150-750	111-553	150	91	25	55	38.89	1	8435 6085 10
QST90-750COT-T50-L152-H25	50	150-750	111-553	150	63	29	64	38.89	1	8435 6085 20
QST90-1000CT-T50-L152-H25	50	200-1000	147-737	130	91	26	57	46.84	1	8435 6090 10
QST90-1000COT-T50-L152-H25	50	200-1000	147-737	130	63	30	66	46.84	1	8435 6090 20
QST95-1750CT-T50-L149-H38	50	350-1750	258-1291	60	96	28	61.7	98.21	1 1/2	8435 6095 10
QST95-1750COT-T50-L155-H38	50	350-1750	258-1291	60	73	43	94.8	98.21	1 1/2	8435 6095 20
Extended spring travel 76 mm and 100 mm										
QST42-20CT-T76-L189-H10	76	6-20	4-14	2000	43	3.1	6.9	7.5	3/8	8435 6020 11
QST42-50CT-T76-L189-H13	76	10-50	7-35	700	43	3.8	8.4	21.3	1/2	8435 6030 11
QST50-90CT-T76-L200-H13	76	20-90	15-65	650	51	5.8	12.7	18.2	1/2	8435 6040 11
QST50-150CT-T76-L200-H13	76	30-150	22-110	380	51	5.8	12.8	31.2	1/2	8435 6050 11
QST62-230CT-T76-L200-H19	76	40-230	29-170	330	63	10.2	22.5	19	3/4	8435 6065 11
QST62-350CT-T76-L200-H19	76	50-350	37-258	220	63	10.2	22.5	28.3	3/4	8435 6070 11
QST80-450CT-T76-L214-H19	76	90-450	66-332	260	81	17	37	22.67	3/4	8435 6075 11
QST80-600CT-T76-L214-H19	76	120-600	88-442	200	81	17	37	29.6	3/4	8435 6080 11
QST90-750CT-T76-L176-H25	76	150-750	111-553	150	63	29	64	38.89	1	8435 6085 11
QST90-1000CT-T76-L176-H25	76	200-1000	147-737	130	91	26	57	46.8	1	8435 6090 11
QST42-50CT-T100-L191-H13	100	10-50	7-35	700	43	3.8	8.4	21.3	1/2	8435 6030 12
QST50-150CT-T100-L186-H13	100	30-150	22-110	380	51	5.8	12.8	31.2	1/2	8435 6050 12

Model	Travel mm	Torque range Nm ft lb		Speed r/min	Min C-C	Weight Kg lb		Gear ratio	Square in	Ordering No.
Dual transducers, CTT										
QST42-20CTT-T50-L134-H10	50	6-20	4-14	2000	43	3.1	6.9	7.5	3/8	8435 6020 50
QST42-20COTT-T50-L134-H10	50	6-20	4-14	2000	31	4.2	9.3	7.5	3/8	8435 6020 60
QST42-50CTT-T50-L134-H13	50	10-50	7-35	700	43	3.8	8.4	21.33	1/2	8435 6030 50
QST42-50COTT-T50-L134-H13	50	10-50	7-35	700	31	4.5	9.9	21.33	1/2	8435 6030 60
QST50-90CTT-T50-L137-H13	50	20-90	15-65	650	51	5.8	12.7	18.21	1/2	8435 6040 50
QST50-90COTT-T50-L137-H13	50	20-90	15-65	650	37	7.8	17.2	18.21	1/2	8435 6040 60
QST50-150CTT-T50-L137-H13	50	30-150	22-110	380	51	5.8	12.8	31.24	1/2	8435 6050 50
QST50-150COTT-T50-L137-H13	50	30-150	22-110	380	37	7.8	17.2	31.24	1/2	8435 6050 60
QST62-150CTT-T50-L152-H13	50	30-150	22-110	450	63	10.2	22.5	13.94	1/2	8435 6060 50
QST62-150COTT-T50-L152-H13	50	30-150	22-110	450	45	12.8	28.2	13.94	1/2	8435 6060 60
QST62-230CTT-T50-L152-H19	50	40-230	29-170	330	63	10.2	22.5	19.04	3/4	8435 6065 50
QST62-230COTT-T50-L152-H19	50	40-220	29-162	330	45	12.8	28.2	19.04	3/4	8435 6065 60
QST62-350CTT-T50-L152-H19	50	50-350	37-258	220	63	10.2	22.5	28.33	3/4	8435 6070 50
QST62-350COTT-T50-L152-H19	50	50-330	37-243	220	45	12.8	28.2	28.33	3/4	8435 6070 60
QST80-450CTT-T50-L146-H19	50	90-450	66-332	260	81	16.7	37	22.67	3/4	8435 6075 50
QST80-450COTT-T50-L146-H19	50	90-450	66-332	260	55	21	46	22.67	3/4	8435 6075 60
QST80-600CTT-T50-L146-H19	50	120-600	88-442	200	81	17	37	29.56	3/4	8435 6080 50
QST80-600COTT-T50-L146-H19	50	120-600	88-442	200	55	21	46	29.56	3/4	8435 6080 60
QST90-750CTT-T50-L152-H25	50	150-750	111-553	150	91	25	55	38.89	1	8435 6085 50
QST90-750COTT-T50-L152-H25	50	150-750	111-553	150	63	29	64	38.89	1	8435 6085 60
QST90-1000CTT-T50-L152-H25	50	200-1000	147-737	130	91	26	57	46.84	1	8435 6090 50
QST90-1000COTT-T50-L152-H25	50	200-1000	147-737	130	63	30	66	46.84	1	8435 6090 60
Dual transducers and angle feedback, CATT										
QST42-20CATT-T50-L134-H10	50	6-20	4-14	2000	43	3.1	6.9	7.5	3/8	8435 6020 70
QST42-50CATT-T50-L134-H13	50	10-50	7-35	700	43	3.8	8.4	21.33	1/2	8435 6030 70
QST50-90CATT-T50-L137-H13	50	20-90	15-65	650	51	5.8	12.7	18.21	1/2	8435 6040 70
QST50-150CATT-T50-L137-H13	50	30-150	22-110	380	51	5.8	12.8	31.24	1/2	8435 6050 70
QST62-150CATT-T50-L152-H13	50	30-150	22-110	450	63	10.2	22.5	13.94	1/2	8435 6060 70
QST62-230CATT-T50-L152-H19	50	40-230	29-170	330	63	10.2	22.5	19.04	3/4	8435 6065 70
QST62-350CATT-T50-L152-H19	50	50-350	37-258	220	63	10.2	22.5	28.33	3/4	8435 6070 70
QST80-450CATT-T50-L146-H19	50	90-450	66-332	260	81	16.7	36.9	22.67	3/4	8435 6075 70
QST80-600CATT-T50-L146-H19	50	120-600	88-442	200	81	17	37	29.56	3/4	8435 6080 70
QST90-750CATT-T50-L152-H25	50	150-750	111-553	150	91	25	55	38.89	1	8435 6085 70
QST90-1000CATT-T50-L152-H25	50	200-1000	147-737	130	91	26	57	46.84	1	8435 6090 70

Model	Travel	Torque range		Speed	Min	Weight		Gear ratio	Square	Ordering No.
	mm	Nm	ft lb	r/min	C-C	Kg	lb		in	
Angle head, CTV										
QST42-20CTV-P10		6-20	4-14	1200	28	3.5	7	11.6	3/8	9831 4077 27
QST42-20CTV-T25-H10	25	6-20	4-14	1200	28	5	11	11.6	3/8	9831 4077 57
QST42-30CTV-P10		6-30	4.5-22	440	36	3.5	7	11.6	3/8	9831 4077 26
QST42-30CTV-T25-H10	25	6-30	4.5-22	440	36	5.5	12	33	3/8	9831 4077 58
QST42-70CTV-P13		14-70	10-52	440	40	4.5	10	33	1/2	9831 4077 28
QST42-70CTV-T25-H13	25	14-70	10-52	450	40	5.5	12	33	1/2	9831 4077 59
QST50-170CTV-P13		34-170	25-125	210	52	6.8	15	56.2	1/2	9831 4078 38
QST50-170CTV-T50-H13	50	34-170	25-125	210	48	8.6	19	56.2	1/2	9831 4078 44
QST50-200CTV-H19		40-200	29-145	210	54	7	15	56.2	3/4	9831 4078 43
QST50-200CTV-T25-H19	25	40-200	29-145	210	54	9.5	21	56.2	3/4	9831 4078 46
QST50-200CTV-T50-H19	50	40-200	29-145	210	58	10	22	56.2	3/4	9831 4078 47
QST62-350CTV-H19		60-350	44-229	175	66	13.5	30	34.3	3/4	9831 4079 73
QST62-350CTV-T25-H19	25	60-350	44-229	175	67	16.5	36	34.3	3/4	9831 4087 10
QST62-600CTV-H25		120-600	88-440	100	109	16.5	33	93.5	1	9831 4087 02

QST - DIMENSIONS



Model	A mm	B mm	C mm	D mm	E mm
Standard					
QST34-8CT-T50-L150-H6	150	16	359	10	–
QST34-20CT-T50-L150-H10	150	16	359	10	–
QST42-20CT-T50-L134-H10	134	23	395	15	–
QST42-20COT-T50-L134-H10	134.5	–	–	–	446
QST42-50CT-T50-L134-H13	134	23	422	15	–
QST42-50COT-T50-L134-H13	134.5	–	–	–	472
QST50-90CT-T50-L137-H13	137	23	464	15	–
QST50-90COT-T50-L137-H13	137	–	–	–	521
QST50-150CT-T50-L137-H13	137	23	464	15	–
QST50-150COT-T50-L137-H13	137	–	–	–	521
QST62-150CT-T50-L152-H13	152	25	517	15	–
QST62-150COT-T50-L152-H13	152.5	–	–	–	586
QST62-230CT-T50-L152-H19	152	25	517	15	–
QST62-230COT-T50-L152-H19	152.5	–	–	–	586
QST62-350CT-T50-L152-H19	152	25	517	15	–
QST62-350COT-T50-L152-H19	152	–	–	–	592
QST80-450CT-T50-L146-H19	146	30	595	20	–
QST80-450COT-T50-L146-H19	146	–	–	–	685
QST80-600CT-T50-L146-H19	146	30	595	20	–
QST80-600COT-T50-L146-H19	146	–	–	–	685
QST90-750CT-T50-L152-H25	152	32	600	20	–
QST90-750COT-T50-L152-H25	153	–	–	–	705
QST90-1000CT-T50-L152-H25	152	32	600	20	–
QST90-1000COT-T50-L152-H25	153	–	–	–	710
QST95-1750CT-T50-L149-H38	149	32	651	20	–
QST95-1750COT-T50-L155-H38	155	–	–	–	796

Model	A mm	B mm	C mm	D mm	E mm
Extended spring travel 76 mm and 100 mm					
QST42-20CT-T76-L189-H10	189	23	421	15	–
QST42-50CT-T76-L189-H13	189	23	447	15	–
QST50-90CT-T76-L200-H13	200	25	493	15	–
QST50-150CT-T76-L200-H13	200	25	493	15	–
QST62-230CT-T76-L200-H19	200	25	543	15	–
QST62-350CT-T76-L200-H19	200	25	543	15	–
QST80-450CT-T76-L214-H19	214	43	595	20	–
QST80-600CT-T76-L214-H19	214	43	595	20	–
QST90-750CT-T76-L176-H25	176	32	600	20	–
QST90-1000CT-T76-L176-H25	176	32	650	20	–
QST42-50CT-T100-L191-H13	191	23	519	15	–
QST50-150CT-T100-L186-H13	186	23	563	15	–
Dual transducers, CTT					
QST42-20CTT-T50-L134-H10	134	23	395	15	–
QST42-20COTT-T50-L134-H10	134	–	–	–	446
QST42-50CTT-T50-L134-H13	134	23	422	15	–
QST42-50COTT-T50-L134-H13	134	–	–	–	472
QST50-90CTT-T50-L137-H13	137	23	464	15	–
QST50-90COTT-T50-L137-H13	137	–	–	–	521
QST50-150CTT-T50-L137-H13	137	23	464	15	–
QST50-150COTT-T50-L137-H13	137	–	–	–	521
QST62-150CTT-T50-L152-H13	152	25	542	15	–
QST62-150COTT-T50-L152-H13	137	–	–	–	521
QST62-230CTT-T50-L152-H19	152	25	542	15	–
QST62-230COTT-T50-L152-H19	152.5	–	–	–	586
QST62-350CTT-T50-L152-H19	152	25	542	15	–
QST62-350COTT-T50-L152-H19	152	–	–	–	592
QST80-450CTT-T50-L146-H19	146	30	595	20	–
QST80-450COTT-T50-L146-H19	146	–	–	–	685
QST80-600CTT-T50-L146-H19	146	30	595	20	–
QST80-600COTT-T50-L146-H19	146	–	–	–	685
QST90-750CTT-T50-L152-H25	146	30	595	20	–
QST90-750COTT-T50-L152-H25	103	–	–	–	706
QST90-1000CTT-T50-L152-H25	152	32	600	20	–
QST90-1000COTT-T50-L152-H25	153	–	–	–	710

Model	A mm	B mm	C mm	D mm	E mm
Dual transducers and angle feedback, CATT					
QST42-20CATT-T50-L134-H10	134	23	395	15	–
QST42-50CATT-T50-L134-H13	134	23	422	15	–
QST50-90CATT-T50-L137-H13	137	23	464	15	–
QST50-150CATT-T50-L137-H13	137	23	464	15	–
QST62-150CATT-T50-L152-H13	152	25	542	15	–
QST62-230CATT-T50-L152-H19	152	25	542	15	–
QST62-350CATT-T50-L152-H19	152	25	542	15	–
QST80-450CATT-T50-L146-H19	146	30	595	20	–
QST80-600CATT-T50-L146-H19	146	30	595	20	–
QST90-750CATT-T50-L152-H25	152	32	600	20	–
QST90-1000CATT-T50-L152-H25	152	32	600	20	–
Angle head					
QST42-20CTV-P10	65	–	–	8	409
QST42-20CTV-T25-H10	–	–	–	–	–
QST42-30CTV-P10	83	–	–	8	435
QST42-30CTV-T25-H10	–	–	–	–	525
QST42-70CTV-P13	84	–	–	15	432
QST42-70CTV-T25-H13	–	–	–	–	526
QST50-170CTV-P13	135	–	–	15	481
QST50-170CTV-T50-H13	–	–	–	–	–
QST50-200CTV-H19	135	–	–	15	481
QST50-200CTV-T25-H19	135	–	–	15	481
QST50-200CTV-T50-H19	135	–	–	15	481
QST62-350CTV-H19	153	–	–	14	564
QST62-350CTV-T25-H19	153	–	–	14	564
QST62-600CTV-H25	174	–	–	14	564

ACCESSORIES FOR QST

Tool and extension cables for Power MACS 4000 Extension cables for PF6 Flex	Ordering No.
Length	
2 m	4220 3799 02
3 m	4220 3799 03
5 m	4220 3799 05
7 m	4220 3799 07
10 m	4220 3799 10
15 m	4220 3799 15
20 m	4220 3799 20
25 m	4220 3799 25
30 m	4220 3799 30
35 m	4220 3799 35
40 m	4220 3799 40

Tool and extension cables for Power Focus 6000 and Power Focus 8	Ordering No.
Length	
2 m	4220 4715 02
3 m	4220 4715 03
5 m	4220 4715 05
7 m	4220 4715 07
10 m	4220 4715 10
15 m	4220 4715 15



Additional socket holders	A mm	Product No.	Socket holder size In	Socket holder Ordering No.
QST42-20CT				
	0 b	8435 6020 10	3/8	4230 1818 00
	50	8435 4083 08	3/8	4230 2217 00
	100	8435 4083 10	3/8	4230 2217 01
	150	8435 4083 12	3/8	4230 2217 02
	200	8435 4083 14	3/8	4230 2217 03
QST42-50CT				
	0 b	8435 6030 10	1/2	4230 1819 00
	50	8435 4083 19	1/2	4230 2218 00
	100	8435 4083 21	1/2	4230 2218 01
	150	8435 4083 23	1/2	4230 2218 02
	200	8435 4083 25	1/2	4230 2218 03
QST50-90CT				
	0 b	8435 6040 10	1/2	4230 1820 00
	50	8435 4083 28	1/2	4230 2219 00
	100	8435 4083 29	1/2	4230 2219 01
	150	8435 4083 30	1/2	4230 2219 02
	200	8435 4083 31	1/2	4230 2219 03

Additional socket holders	A mm	Product No.	Socket holder size In	Socket holder Ordering No.
QST50-150CT				
	0 b	8435 6050 10	1/2	4230 1820 00
	50	8435 4083 68	1/2	4230 2219 00
	100	8435 4083 33	1/2	4230 2219 01
	150	8435 4083 34	1/2	4230 2219 02
	200	8435 4083 35	1/2	4230 2219 03
	100	8435 4083 41	5/8	4230 2224 01

Additional sockets	A mm	Product No.	Socket holder size In	Socket holder Ordering No.
QST62-150CT				
	0 b	8435 6060 10	1/2	4230 1829 00
	50	8435 4083 37	1/2	4230 2223 00
	100	8435 4083 40	1/2	4230 2223 01
	150	8435 4083 43	1/2	4230 2223 02
	200	8435 4083 46	1/2	4230 2223 03
	0	8435 4083 70	5/8	4230 1821 00
	50	8435 4083 38	5/8	4230 2224 00
	100	8435 4083 41	5/8	4230 2224 01
	150	8435 4083 44	5/8	4230 2224 02
	200	8435 4083 47	5/8	4230 2224 03
QST62-230CT				
	0	8435 4083 81	5/8	4230 1821 00
	50	8435 4083 83	5/8	4230 2224 00
	100	8435 4083 98	5/8	4230 2224 01
	150	8435 4083 88	5/8	4230 2224 02
	200	8435 4083 91	5/8	4230 2224 03
	0 b	8435 5170 10	3/4	4230 1822 00
	50	8435 4083 84	3/4	4230 2226 00
	100	8435 4083 86	3/4	4230 2226 01
	150	8435 4083 89	3/4	4230 2226 02
	200	8435 4083 92	3/4	4230 2226 03
QST62-350CT				
	0	8435 4083 72	5/8	4230 1821 00
	50	8435 4083 53	5/8	4230 2224 00
	100	8435 4083 56	5/8	4230 2224 01
	150	8435 4083 59	5/8	4230 2224 02
	200	8435 4083 62	5/8	4230 2224 03
	0 b	8435 6070 10	3/4	4230 1822 00
	50	8435 4083 54	3/4	4230 2226 00
	100	8435 4083 57	3/4	4230 2226 01
	150	8435 4083 60	3/4	4230 2226 02
	200	8435 4083 63	3/4	4230 2226 03

a This socket holder is included when you order the complete spindle.

b This socket holder follows when you order the standard nutrunner.

NOTE: The spindle travel is 50 mm for all socket holders.

Atlas Copco



Total Workstation Solutions



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STACKLIGHT AND OPERATOR PANEL

Stacklight

The Stacklight is a perfect solution for assembly lines with a high production rate. Lights and sound signals provide timely information and report errors back to the operator. The main switch can be used to switch between manual and automatic mode.

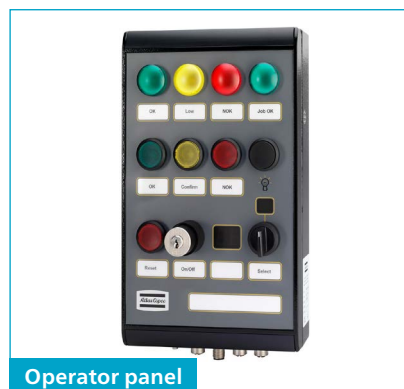
- Rapid light and sound signals to the operator
- Detection of errors in the workstation
- Enable operators to react quickly
- Quick visual light signals to the production team



Stacklight

Operator panel

Accurate information and error messages with lights, beeps and a key switch. Errors can be detected and corrected at the workstation, rather than further down the line. Time and cost can be saved by reducing rework and avoiding incorrect products leaving the production line. Higher quality can be achieved by providing audible and/or visual information about the assembly process to the operators.



Operator panel

Model	Ordering No.
Stacklight	
ESL-04 Standard	8433 0570 13
Rotating red	8433 0570 30
Rotating yellow	8433 0570 35
Siren	8433 0570 40
Compact	8433 0570 16
Operator panel	
Advanced	8433 0565 00
Basic	8433 0565 10
Indicator box	
Indicator box	8435 3010 04
Indicator box cable to PM4000, 1 m	4243 0278 80
Open end cable, 5 m	4243 0281 05
Extension cable, 5 m	4243 0282 05



Indicator Box

CAN-CONVERTER AND I/O HUB

CAN-Converter

The CAN-Converter is used to convert Atlas Copco Bus protocol which convert CAN traffic to ethernet traffic, meaning you can connect the accessories to the controller over the local network instead of directly connecting it to the controller.

The CAN-Converter is used to connect tools with built-in Controller (IxB) to external accessories such as stacklight, IO expander, Operator panel and Indicator box.

- Ethernet RJ45 Female connection
- 4 LED information (power/communication/mode)
- CAN IO Bus male connection (to accessories)
- 24V M8 - 4 pin male power input connection



CAN-Converter

I/O Hub

With the I/O hub you can connect Digital signals I/O over ethernet to enable connection to virtual controllers, such as IxB and tool controllers. Integrated to I/O setting in PF6000. Empowering virtual stations - No need to be directly connected to the controller. Easy rebalancing and configuration - I/O Hub Settings to connect and configure the I/O Hub remotely. Small size and weight.

- Digital signals to controller to connect gears and accessories such as buttons, sensors, actuators and lights.
- Ethernet signals to controller to connect Atlas Copco
- Controllers such as IxB Tools, PF6 Flex and PF6.
- Size: 144 x 32 mm
- Weight: 0.21 kg



I/O Hub

I/O HUB AND CAN-CONVERTER

Description	Ordering No.
I/O Hub and accessories	
I/O Hub 8-PS	8433 0566 10
Power supply kit	8433 0567 14
Power supply unit	4390 2076 27
Power supply cable 1	4390 2084 53
Power supply cable 2	4390 2084 54
Power cable for PF6000	4222 1011 01
Ethernet RJ45 to COM Port adapter cable	4222 3073 00
Ethernet cable M8 4-Pin Male To M8 4-Pin Male	4222 1011 05
Ethernet cable M8 4-Pin Male To RJ45	4222 1011 01
CAN-converter	
CAN-converter	8433 0567 10

SOCKET SELECTOR

Socket selector

Selector 6 series is designed to give you an outstanding mobility and connectivity. This wireless socket and bit selector improves your productivity and operator ergonomics with increased uptime, reduction in energy consumption and defects as well as ease of installation.

Connect the Selector 6 Series wirelessly (2.4 & 5 Ghz) to your factory network. Using the same battery as your Atlas Copco tools, it gives outstanding operating time, and thanks to its commonality reduced inventories and simple battery management. The built-in buffer battery will secure that you stay connected during battery exchange for minimum downtime.

Choose your Socket and Bit Selector 6 series in the model you prefer Stationary (S) or Mobile (M) – the flexibility is there. All models in the Selector 6 series can be powered over Ethernet (PoE).

Simple and convenient: The LEDs show which sleeve to remove and which to use next. The corresponding program is automatically selected depending on the sleeve. Confirm which tightening program to use.

- Operator guidelines
- Fail-safe production
- Adaptation to recurring changes along the line
- Significantly reduce defects during assembly
- Reduced quality issues
- Handling of several products on the same line
- IP54 class rated
- RBU – Store your network configurations for quick swaps.
- Service port – Network settings through web interface. Set-up is easily done in ToolsTalk 2 or directly on a Power Focus 6000
- DIN rail mounting options
- Daisy chain possibilities and 4 x digital output



Selector 6 M



Selector 8

FUNCTIONALITIES

Controller software	Selector 6 S (Stationary)	Selector 6 M (Mobile)
IP54	Yes	Yes
Intuitive LED guidance	Yes	Yes
Network indicator	Yes	Yes
Battery indicator	No	Yes
Web interface for network settings	Yes	Yes
RBU card	Yes	Yes
Service Ethernet port (RJ45)	Yes	Yes
Power over Ethernet (In & Out)	Yes	Yes
4 x I/O out	Yes	Yes
Battery	No	Yes
Operating time 18 V battery		>10 h
Operating time 36 V battery		>24 h
Attachable carry handle	Yes	Yes
DIN rail mounting option	Yes	Yes

SOCKET SELECTORS AND ADDITIONAL ACCESSORIES

SELECTOR 6

Description	Selector 6 S (Stationary)	Selector 6 M (Mobile)
Selector 6 - 4 slots	8433 0611 04	8433 0613 04
Selector 6 - 8 slots 8433 0611 08	-	8433 0613 08
Selector 6 - 8 bit slots	8433 0611 09	8433 0613 09
Battery 18V	-	4211 6030 85
Battery 36V	-	4211 6030 86
Charger 18-36V	-	4211 6083 84
External power supply	8432 0840 00	8432 0840 00
Carry handle	-	4222 3142 80
Daisy chain cable 4 to 4	4222 3155 80	4222 3155 80
Daisy chain cable 4 to 8	4222 3155 81	4222 3155 81
Daisy chain cable 8 to 8	4222 3155 82	4222 3155 82
Power Focus 6000 adapter cable	4222 3073 00	4222 3073 00
Socket holder 25 mm	4222 3114 20	4222 3114 20
Socket holder 50 mm	4222 3114 21	4222 3114 21
Bit holder 50 mm	4222 3114 22	4222 3114 22
DIN rail adapter	4222 3145 80	4222 3145 80

SELECTORS AND ACCESSORY CABLES

Description	Ordering No.
Selectors	
Selector 4	8433 0610 04
Selector 8	8433 0610 08
Selector for large sockets	8433 0610 44
Rotary selector	8433 0606 15
Bit selector 8	8433 0612 08
double a)	4222 0933 92
single b)	4222 0933 91
I/O Expanders	
Open	8433 0564 39
Sealed	8433 0564 45
Remote start	
Operator handle - front/plastic	8435 3030 00
Operator handle - front/rubber	8435 3030 01
Operator handle - rear/plastic	8435 3030 02
Operator handle - rear/rubber	8435 3030 03
Start handle (for Tensor tools)	4220 1391 91
Accessory cables	
I/O bus cable, 0.5 m	4222 0917 00
I/O bus cable, 1 m	4222 0917 01
I/O bus cable, 3 m	4222 0917 03
I/O bus cable, 5 m	4222 0917 05
I/O bus cable, 10 m	4222 0917 10
I/O bus cable, 15 m	4222 0917 15
I/O Termination plug	4222 0443 00

a) only compatible with Bit selector

b) only compatible with Socket selector 4 and 8

Atlas Copco

Screw-feeding Solutions



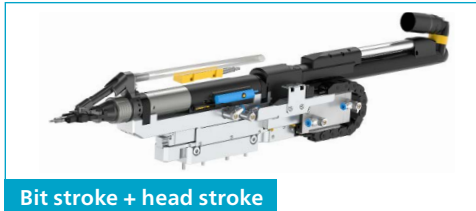
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SCREW-FEEDING SYSTEM

Atlas Copco tightening solution with automatic screw feeding is suitable for integration into robotic workstations and production lines. Screw feeding system guarantee continuous supply of screws which are shot automatically from the feeder to the tightening tool. A complete solution with QST tightening module, step feeder, controller Power Focus 6000 guarantees stable production for the most demanding applications.



Bit stroke

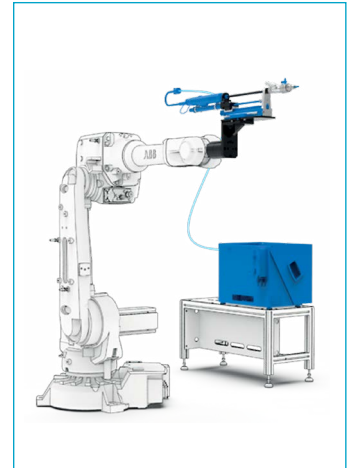


Bit stroke + head stroke



STEP feeder

- High number of fastener per minute
- High uptime
- Low vibrations
- Low population and abrasion of transported materials
- Enables to feed surface coated and sensitive fasteners
- Less noise level productivity



Main technical parameters:	Standard	Optional
Maximum diameter of thread	6 mm	24 mm
Torque capacity	2,0 - 10 Nm	0,2 - 150 Nm
Capacity of feeder	3 liter	3 liter
Feeding tact	1 - 5 sec/operation	1 - 5 sec/operation
Hopper	N	Optional
Measurement of bolt length	N	Optional
Vacuum for hard to reach place	N	Optional
Air valve bridge	Yes	Yes
PLC for operation control	Yes	Yes
Automatic torque self-diagnostic procedure	N	Yes

FEATURES

- All directions
- Long time service period
- Possibility to check dimension of screw before feeding – Option
- Fast change of bits without tool
- Fast remove of screw from jaws without tools if it is necessary
- PLC for feeding process included
- Perfect access to cramped spaces – slim design of jaws
- No special tools needed for maintenance

BENEFITS

- Low maintenance costs
- Saving time due to no need for programing PLC
- No special tools for maintenance
- Easy and fast maintenance
- Fast delivery

WHERE TO USE

- Automatic or semiautomatic stations with required fast assembly process
- In connection with robot can substitute human tightening operation



Atlas Copco



Global Project
Solutions



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GLOBAL PROJECT SOLUTION

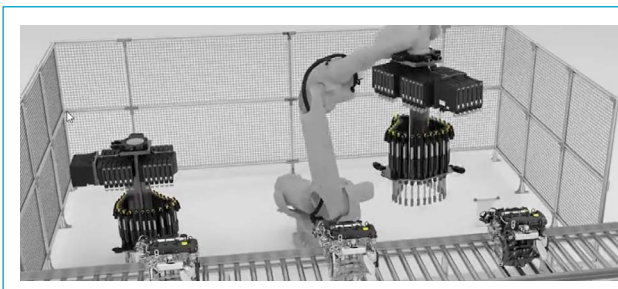
Atlas Copco is manufacturing unique subcomponents for integrators and design companies within five different global application centras. These components, systems and products, are customized low volume items based on individual customer needs. Purpose is easy, reliable and cost efficient integration in complete machine solutions.

VALUES OF GLOBAL PROJECTS SOLUTIONS:

- Common global project process to ensure Right First Time Quality on Time for local and global customers
- Interactive customer experience - online access to project information
- Professional customer buy-off ensure right quality/ solution first time
- Reduced customer start-up time
- Eliminate potential rework costs in the field
- Meet planned SOP
- Fulfill local and special customer certifications

WE ARE FOCUS ON:

- Single and multi-spindle tightening systems
- Assembly press workstations
- Gauging applications
- Suspension systems
- IT solutions for data management
- Customer protocol adapters
- Articulated arms with position recognition
- Application consultancy and support



INFORMATION AND KNOW-HOW

- Knowledge about international and customer standards
- Global sharing of references and use cases
- Technical knowledge about customer processes and needs
- Consultant and competent partner for production processes
- Global quality team ensures high quality standards
- Same quality standards globally

MODIFICATION AND STANDARDS

- Customization of Atlas Copco standard solutions
- Flexibility towards integrators and final customers
- Globally available engineered standard products
- (HW/SW) that fill gap between standard catalogue product and customer requirements
- Local project teams allow us to customize solutions to local customer requirements

TIGHTENING MULTIPLES



FEATURES

- Base plate custom designed per application
- Adjustable handle mounting components
- Solution rotate handle
- Suspension mounting components with center of gravity adjustment
- Cable management

BENEFITS

- Fully customizable for process optimization
- Superior operator ergonomics
- Excellent maintenance accessibility
- Improved operator view of part
- Decrease design time
- Long time experience

TORQUE ARMS – CUSTOMIZED SOLUTION



FEATURES

- Lightweight, compact design
- 335 degree rotation at pillar
- Extensive vertical travel
- Parking block for parking and maintenance
- Integrated cable management
- Optional lift assist type: pneumatic or gas shock
- Standard range of tool holders and accessories
- Position Recognition System (PRS) and Industrial Location Guidance (ILG) adaptable
- Adjustable limit switch accessories, easily adaptable
- Tightening torque up to 2000 Nm

BENEFITS

- Low-operating forces and smooth, comfortable handling
- Reduced operator fatigue and increased productivity
- Large working area for operator
- Apply torque in multiple tightening orientations
- Low maintenance for increased productivity

REACTION SUSPENSION SYSTEM - HTS

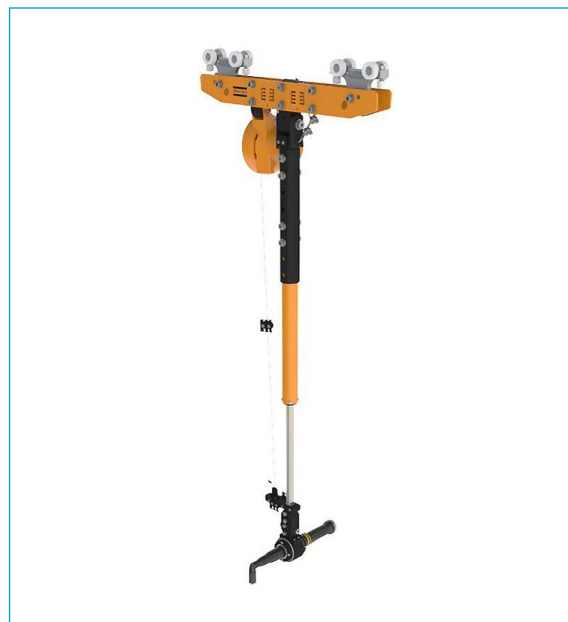
Hand Tool Torque Reaction Suspension, designed specifically for hand tool applications, reacts the torque generated by a tool – eliminating the impact to the operator.

FEATURES

- Linear motion that provides vertical travel for positioning and torque reaction of the tool
- Torque can be applied in either a horizontal or vertical tightening orientation
- Equipped with a WP Balancer, the system provides a lift assist for the operator
- The balancer can be set to hold at a balanced position along the vertical travel or set to raise to the upper travel position.

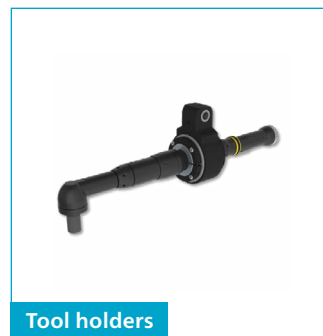
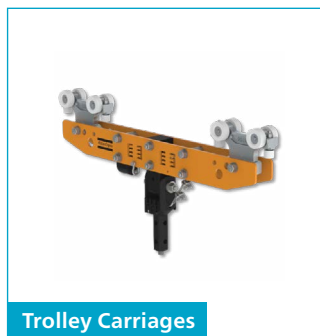
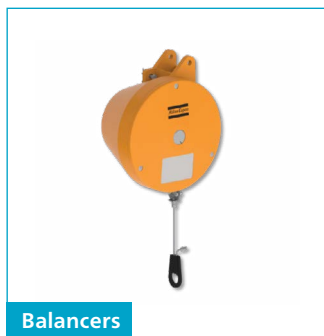
BENEFITS

- Reduces operator fatigue
- Lightweight and smooth movement for ease of handling
- Low handling forces for improved ergonomics
- Easy to assemble, maintain and adapt for various tools



OPTIONS

Reaction Suspension System - HTS was developed with versatility in mind. Key components of the system can be configured to suit the needs of each specific application. These components are interchangeable and can be reconfigured as required to suit evolving application requirements.





Bolt Tightening Solutions



Scan to
know more

BOLT TIGHTENING SOLUTIONS

Frequently chosen by customers in the oil and gas, power generation, wind energy, and other sectors, Atlas Copco world-class bolting tools and software help you maximize process security, minimize human and operational risk and reduce your overall investment costs. Our custom-designed hydraulic bolt tensioners, "smart" hydraulic torque wrench systems, and industry leading electric and pneumatic nutrunners are supported by Atlas Copco's extensive application expertise and worldwide presence.

Complete range of hydraulic bolting tools: hydraulic torque wrenches, hydraulic bolt tensioners, permanent hydraulic nuts, hydraulic pumps and wide range of accessories. Special focus of features of these tools is on increasing safety of operators.

PRODUCT PORTFOLIO



Hydraulic torque



Tensioners



Accessories



Hydraulic pump

Main technical parameters:

Accuracy:	+/- 3% indirect measurement, capability test
Torque Range:	81 - 71180 Nm
Speed:	Usually few RPM, intended for step-by-step tightening
Connectivity	Ethernet and I/O (RTA version)
Remote start	No
Number of tightening programs	1-50
Target parameters	Torque
Control parameters	Torque, angle (RTA version)
Results memory	Yes, result and trace (RTA versions)

FEATURES

- Full data traceability (RTA version)
- Wide product portfolio for different application
- Long life time
- Compact dimensions

BENEFITS

- Wide range of hex sizes
- Designed to suit low clearance applications
- Excellent power to weight ratio
- High oil flow systems
- Fast, accurate bolt load

WHERE TO USE

- Very high torque applications
- Primarily for maintenance and construction applications
- Maintenance, Oil&Gas, Wind Energy, Power Generation, Subsea
- Large Presses, Valves, Flanges, Construction applications

BOLT TIGHTENING SOLUTIONS - CONTINUOUS ROTATING TOOLS

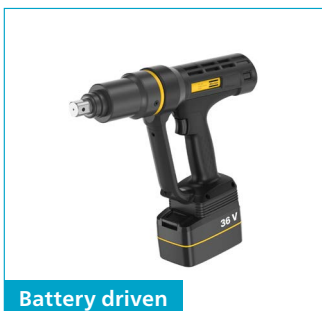
Frequently chosen by customers in the oil and gas, power generation, wind energy, and other sectors, Atlas Copco world-class bolting tools and software help you maximize process security, minimize human and operational risk and reduce your overall investment costs.

Atlas Copco electric bolt tightening solutions offer fast and traceable tightenings with optimal operator feedback.

PRODUCT PORTFOLIO



Pneumatic



Battery driven



Wired



Outdoor controller

Main technical parameters:

Accuracy:	Pneumatic +/- 20%, Electric +/- 5%
Torque Range:	60 - 8000 Nm
Speed:	8 - 396 RPM
Connectivity	Pneumatic: N/A, Electric: Ethernet and wi-fi
Remote start	No
Number of tightening programs	1-250
Target parameters	Torque, angle
Control parameters	Torque, angle
Results memory	10 000

FEATURES

- Full data traceability (electric tools)
- Wide product portfolio for different application
- Long life time
- Compact dimensions

BENEFITS

- High Productivity
- Easy to learn and use
- Excellent power to weight ratio
- Produces accurate clampforce
- Tracability of the tightened bolts

WHERE TO USE

- Very high torque applications
- Primarily for maintenance and construction applications
- Maintenance, Oil&Gas, Wind Energy, Power Generation, Subsea
- Large Presses, Valves, Flanges, Construction applications

RTP TOOLS AND ACCESSORIES

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.



Model	Bolt size	Sq. drive	Min. torque at 1.5 bar		Max. torque at 6.3 bar		Free speed	Weight *a		Length	CS distance	Air consumption at free speed		Rec. hose size	Air inlet thread	Ordering No.
	mm	in	Nm	ft lb	Nm	ft lb	r/min	Kg	lb	mm	mm	l/s	cfm	mm	in	
RTP1300-HR20	20-27	3/4	320	235	1300	960	20	3.7	8.15	248	32	23	48	13	3/8	8431 1013 10
RTP2600-HR25	20-36	1	700	520	2600	1900	10	5	11	300	34	23	48	13	3/8	8431 1026 10
RTP4100-HR25	30-45	1	1000	740	4100	3000	10	8.7	19.18	335	41	31	65.5	13	3/8	8431 1040 10
RTP8100-GIR38	33-52	1 1/2	2200	1600	8100	6000	10	13.5	30	444	51	50	105	13	1/2	8431 1081 10

*a Weight excluding reaction bar.

ACCESSORIES INCLUDED

Model	Description	Ordering No.
RTP1300	Reaction bar, S-type	4210 4480 90
RTP2600	Reaction bar, S-type	4210 4480 94
RTP4100	Reaction bar, S-type	4210 4480 93
RTP8100	Reaction bar, S-type	4210 4480 92
RTP1300 / 2600 / 4100	Hose kit, Turbo 13 M10, BSP	8202 1182 07
RTP8100	Hose kit, Turbo 13 M15, BSP	8202 1181 81
RTP1300 / 2600 / 4100	Productivity kit FRL stand, BSP *b	9090 3030 06
RTP8100	Productivity kit FRL stand, BSP *b	9090 3030 04

*b Hose not included.

SERVICE KITS

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

RTP ACCESSORIES

OPTIONAL ACCESSORIES

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

NOTE: All reaction bars includes a snap ring



Reaction bar S-type



Productivity kit



Reaction bar sliding drive



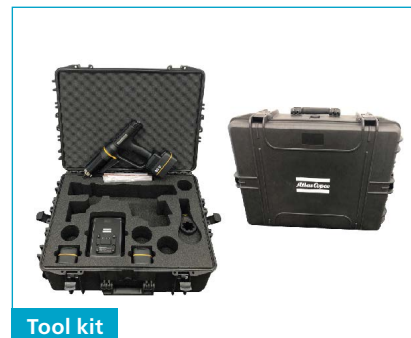
Reaction bar steel bar



Reaction bar square bracket

ETP SRB81 - HA

- Transducerized high-torque battery pistol tool
- Torque range up to 4000 Nm
- Dual trigger to minimize risk of injury
- Operator control and feedback via display with three buttons
- Can be run as stand-alone (-D) or connected with Virtual Stations to Power Focus controllers



Tool kit

Model	Square drive in	Torque range Nm	Speed rpm	Weight *a kg	Length mm	CS distance mm
ETP SRB81-1300-20-HA	3/4	390-1300	23	5.5	378	32
ETP SRB81-2400-25-HA	1	720-2400	11	6.8	428	35.5
ETP SRB81-3400-25-HA	1	1020-3400	7	8.5	441	55.5
ETP SRB81-4000-25-HA	1	1200-4000	5	8.5	441	55.5

*a Weight with battery

Model	Ordering No. Tool only	Ordering No. Tool Kit
ETP SRB81-1300-20-HA-D	8433 2506 01	8433 2506 81
ETP SRB81-1300-20-HA	8433 2506 11	8433 2506 91
ETP SRB81-2400-25-HA-D	8433 2507 01	8433 2507 81
ETP SRB81-2400-25-HA	8433 2507 11	8433 2507 91
ETP SRB81-3400-25-HA-D	8433 2500 01	8433 2500 81
ETP SRB81-3000-25-HA	8433 2500 11	8433 2500 91
ETP SRB81-4000-25-HA-D	8433 2508 01	8433 2508 81
ETP SRB81-4000-25-HA	8433 2508 11	8433 2508 91

HA - D - Digital version
HA - Smart version / Smart Connected version
Tool kit includes tool, case, charger, 2 batteries and S-type reaction bar

Battery / Charger	Ordering No.
Battery Li - Ion 36V 2.6 Ah	4211 6030 86
Multicharger 18-36 V	4211 6083 83
Protective cover 36 V	4211 6090 36
Tool protective cover (included with tool)	4216 4271 02

Accessories	Ordering No.			
Tool Model	A. Steel Bar	B. S-type	C. Sliding drive	D. Square bracket
SRB HA 1300	4210 4757 90	4210 4480 90	4210 4752 90	4210 4758 90
SRB HA 2400	4210 4757 93	4210 4480 94	4210 4752 93	4210 4758 93
SRB HA 3400/4000	4210 4757 85	4210 4480 85	4210 4752 85	4210 4758 85



Atlas Copco



Industrial Drive Systems



Scan to
know more

INDUSTRIAL DRIVE SYSTEMS

Comprehensive range of standard air motors to meet customer requirements and cost-effective solution when applying power to rotating machines. Consider the air motor features and characteristics giving large benefits to the designer.

PRODUCT PORTFOLIO



Main technical parameters:

Power:	0,04-6,5 KW
Speed:	5-21 000rpm
certification:	ATEX Ex II G
Lubrication:	No

FEATURES

- Clockwise, anti-clockwise, reversible
- Threaded/keyed shaft
- Lubrication free
- Brake models
- Stainless steel
- Long and slim
- ATEX version
- Easy power adjustment (pressure change or throttling)
- Approved version for food and pharma
- Design without springs – long service life

BENEFITS

- Custom design available on request
- ATEX certification

WHERE TO USE

- Transportation
- Oil & Gas
- Chemical & Pharma applications
- Food processing applications
- Explosive environments
- Where is rotation motion needed and easy and cost effective integration is welcomed



Atlas Copco

Hybrid Joining
Technologies

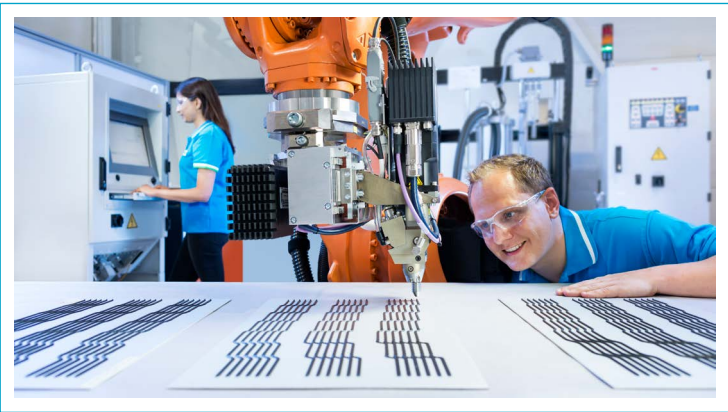
HYBRID JOINING TECHNOLOGIES

New materials like aluminum, magnesium, carbon fibers and others together with increasing importance of lower weight of the cars require new ways of joining material compared to traditional welding.

DISPENSING SYSTEMS

Dispensing systems for fluid materials such as glues, sealers, cements, fillers and similar are usually used for joining parts from different materials. It is used for sealing gaps on car body after spot welding for water isolation and sound damping. On glass-bonding applications to the body or we find these applications on powertrain where fluid sealers are applied.

We provide complete system typically for robotic or automatic stations consisting of pumps, control system, hoses, nozzles, dozers up to camera systems assuring automatic quality control.

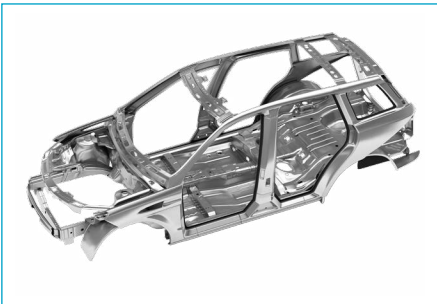
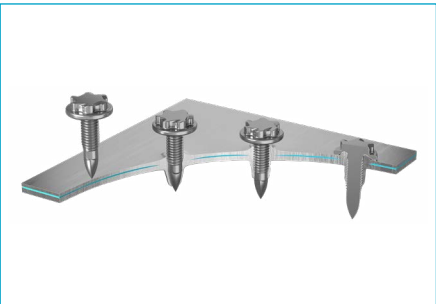


FLOWDRILL

A main advantage of flow drill fastening is that only one-sided access is required. Used mainly in body shop applications in the automotive industry, the technique utilizes a fastener as both drill and joining element – an efficient and flexible joining technology.

Applications without pre-hole, fully automated solution typically with robots. Make the hole and tighten the join in single step.

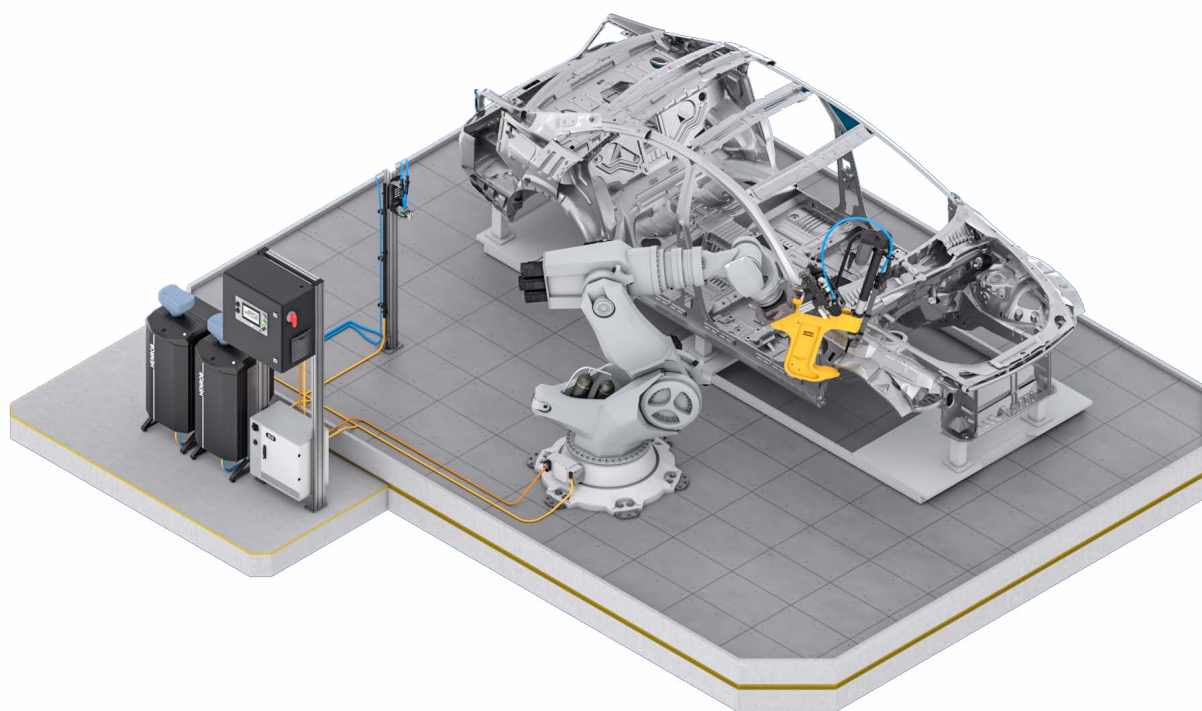
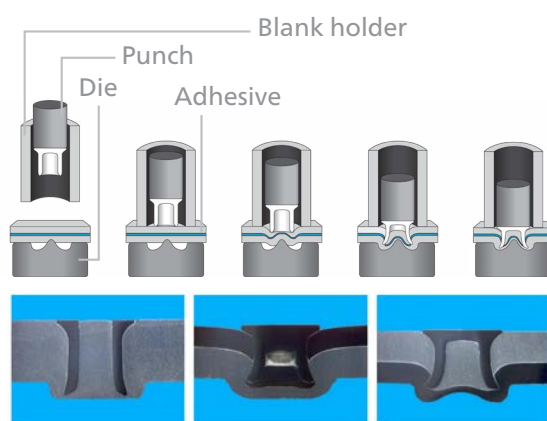
THE FOUR MAIN STAGES IN THE FLOW DRILL FASTENING PROCESS			
HEATING	PENETRATION	THREAD FORMING	TIGHTENING
The fastener is positioned on the workpiece and rotated at highspeed. This heat up the material.	With high rotation speed (up to 9000 rpm) and high process force (up to 3000 N), the fastener is pushed through the materials.	With reduced speed and process force, the fastener drives through the material and forms a thread without cutting.	The fastener is tightened with the required final torque.



HYBRID JOINING TECHNOLOGIES

SELF-PIERCE RIVETING

Self-piercing studs have a high degree of mechanical strength that can withstand impact, torque and vibrations. When your application needs to hold up to a heavy load, with the added benefit of minimal electrical current resistance, Henrob self-piercing studs are perfect for grounding.





Software Solutions



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know more

SQS 3

Process control solution compatible with Atlas Copco environment.

Ready to use, modular, easy configuration. Customizable solution according final Customer needs. Scalable Solution. Handles identifiers, operator guidance, communication with tools, reporting and communication with others systems, pick-to-light solution, industrial HMIs, operator identification, reject and rework management.

Full process control Plug&Play globally established at most respected customers.



FEATURES

- Available within 24 hours
- Scalable (buy only what You need)
- From single station up to full production
- No server requirement (up to 10 stations)
- Simple installation, intuitive configuration
- Built in Data repository
- Advance product identification handling
- Possible to replace PLC
- Operator identification
- Part verification and documentation
- Tool interlock, Pset triggering / data collecting
- I/O handling, Printer integration
- Rework station integration (based on previous stations data)
- Easy integration of tool position tracking system (ILG)

BENEFITS

- Simple installation and quick delivery
- 30 days demo license available
- Easy to extend solution
- Low IT investment because no server required
- Local or server process data collection to keep tracking all the time
- Filter out operators based on data for further development
- Because of I/O for easy tasks PLC not necessary
- Control position of the screwdriver by operators (right screw right time with right torque)
- Not necessary to have deep knowledge of PLC programming in case of I/O handling
- Guide operator through entire assembly process, enable tools when it's needed only
- Based on assembly data rework station will be automatically triggered in case of any error

WHERE TO USE

- Where process control adds value, especially when HMI-operator interaction increases productivity and quality
- Where process data documentation and traceability is required



SMART AMS

Smart AMS or SAMS is solution to unify the communication between different layers of production systems.

Connects upper system MES and production line up to controller level.

Communication is handled by Smart AMS adapter so you don't have to deploy changes any time you change something in production.



FEATURES

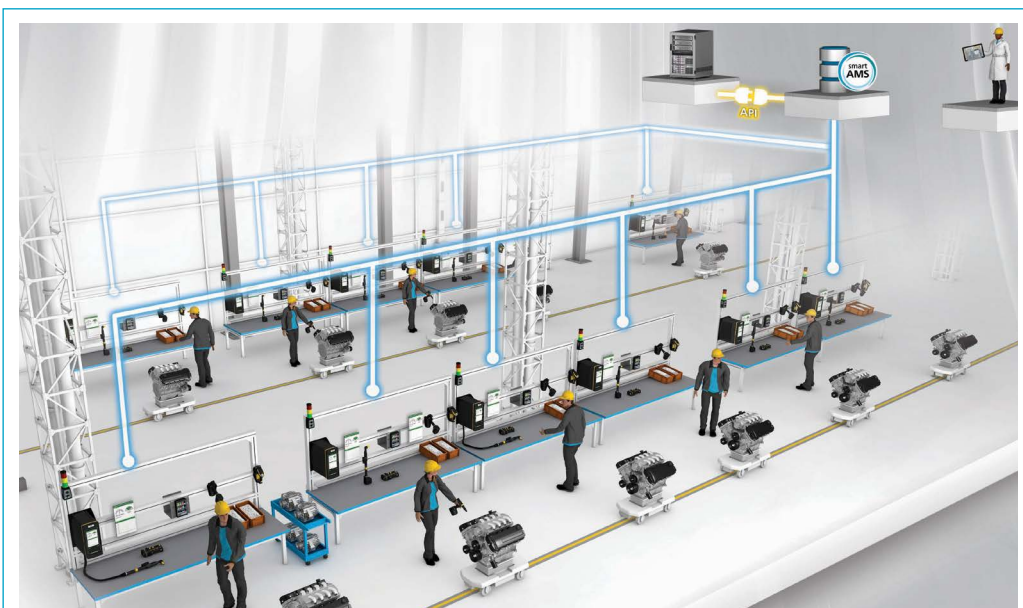
- Tool Control (Open Protocol based supporting PF6000, PF4000, PMACs, STwrench)
- Tightening Process Control
- System Configuration (Excel to SAMS)
- Event-Logging and alarming
- MES Connectivity (1.0 scope: ACA MES Adapter, 1.1 scope: SQS/SAMS MES API)
- PLC Connectivity (Current scope: SAMS PLC Protocol)
- IO (Current scope: AC Tools)
- Different failure strategies (bypass bolt, bypass process step, ...) and emergency mode

BENEFITS

- Acceptable deployment costs, no need for HMI on each station
- Standardization of communication
- Easy implementation of new products on assembly line
- Easy implementation of new applications in network control environment
- Get rid of testing process in case of new objects
- Maintain single communication interface
- Get rid of versioning
- Increase Cyber Security
- Removes differences in communication between controllers
- Removes differences between controllers
- Easier integration with line PLC (identifiers handling)

WHERE TO USE

- SAMS Workplaces without HMIs and without rework (ToolsNet8 for result data as option)
- SAMS and SQS workplaces (with HMI and worker guidance) mixed on a workplace or line level. Optional:
 - ToolsNet8 for result data
 - Inline rework with SQS3 (can rework SAMS and SQS workplaces)
 - Offline rework with SQS3 (with ToolsNet8 and SQS3 ToolsNet rework)



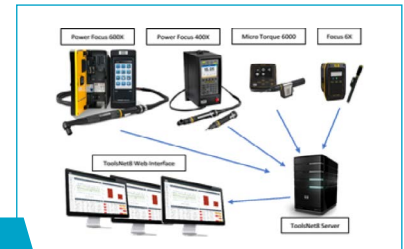
TOOLSNET8 AND TOOLS TALK 2

TOOLSNET 8 REWORK OPTION — FACTS AND BENEFITS

- TN8 as data collector drives rework process for product repair
- Target is complete electronic card of the product (production as well as repair operations are 100% documented)
- SQS3 Operator guidance software drives worker via assigned tasks based on TN8 data

TOOLS NET8

ToolsNet8 (TN8) - Optimal solution for data collection and automatic process analysis. Optimization of maintenance tasks and quality analysis, easy troubleshooting.



FEATURES

- Tightening curve storing and analysis
- Programmable automatic SMS / e-mail notification in case of errors, events, process changes
- Automatic schedule reporting
- Automatic Cp/Cpk calculation
- Advance Box analysis
- Tool overview with maintenance data
- Connectivity with Atlas Copco Quality Systems for automatic tool-check process triggering

WHERE TO USE

Every production where Atlas Copco tools are located

BENEFITS

- Easy and quick production data analysis
- Forget excel and enjoy automatic analysis
- SPC supporting, get to know in advance about possible problems
- "What if limit like this" option
- Instant notification helps to get information about
 - Tools and station events
 - Trend moving, NOT ok ration and lot more
 - Program changes (Pset) tracking

TOOLS TALK 2

- ToolsTalk 2 (TT2) – Power Focus 6000 and Power Focus 8 advanced configuration software.

FEATURES

- User administration
- Curve analysis
- Event logs
- Tree structure of controllers
- Global programming of Psets
- Offline programming
- Pset history
- Access rights for users
- Avoiding unauthorized changes in configuration of tools

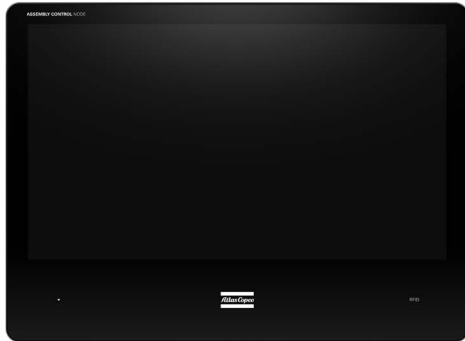
WHERE TO USE

- All customers with Power Focus 6000 and Power Focus 8 connected to network
- If configuration of communication via Profinet, Profi Bus, DeviceNet, etc.
- If customer uses Software PLC on Power Focus 6000 and Power Focus 8

BENEFITS

- Complete overview of controllers in network, best transparency
- Global programming of Psets – time saving on production start-up
- Remote configuration for Power Focus 6000 and Power Focus 8 systems
- Possible to lock Power Focus 6000 and Power Focus 8 and allow only modification of Pset in case of right user enter to the system
- Prepare configuration in advance without Power Focus 6000 and Power Focus 8
- Quick return to any previous version of Psets

INDUSTRIAL PC



FEATURES

- 4 different versions available
- Built in RFID reader
- WiFi, Bluetooth, 4x LAN, 3x RS232, 8x Digital IO, 4 USB, HDMI, Display port
- IP 65, Screen resistance 20 Joule
- RAID options
- Passive cooling

WHERE TO USE

- Fits for clean or dusty environment, because of passive cooling and IP65
- In case of work instruction running on the lines ACNode could be excellent solution
- In case of SQS offer we recommend to use ACNode

BENEFITS

- 4 different version provide optimal performance for needs
- Wide connectivity options
- Build in DIO helps to avoid external connectors (BUS)
- Modular design gives quick changes and repairs
- RAID provide SSD mirroring to avoid data loss
- Easy to install
- Highest version could fit as line server (i7-7700 up to 4.2 GHz, 16Gb RAM optional 32 Gb, 512 Gb SSD)



Atlas Copco



Service Solutions



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SERVICE

Service solutions help customers maximize value of industrial equipment. Combination of analysis of production data with know-how and expertise to enhance your productivity and quality. Maximizing uptime and increasing Operation Excellence keeps your cost under control. Our service offering consists of various services and option.

EASYSTART

Service package for a trouble-free start of production. Available for majority of Atlas Copco products and SW.



FEATURES

- Physical installation
- Programming and settings
- Configuration and implementation into existing infrastructure
- Residual torque check (5x)
- Operator training – basic usage and security
- Control of start-up of production
- Back-up files
- EasyStart approval report signed by customer and technician

BENEFITS

- Reduced start-up times and costs
- World-wide standardized and certified process
- Better performance from day one

CALIBRATION

The efficient way to control quality.



FEATURES

- Core competence in calibration of Torque, Rotation
- Angle and Force
- Calibration laboratory in Prague is certified by the Czech Accreditation Body (CAI)
- Upon request is calibration available on site at customer's facility
- Accredited calibrations according to CAI and standard calibrations are carried out according to: EN ISO/IEC 17025:2017, EURAMET cg - 14 + EA 4/02, according EN/ISO 6789 + ISO 5393 + EA 4/02
- Tool Capability tests can be carried out according VDI/VDE 2645-2
- Certificate of calibration

BENEFITS

- Minimize risk of rework, warranty and recall costs
- Traceability in the assembly process
- Compliance with processes mandatory in product liability cases and audits
- Reduction of tool-related quality problems
- Reduced risk of reclaims on the final product

TIGHTENING SERVICES

Accelerate your business sustainable growth by shortening time to market, increasing your productivity and first time quality in a timely efficient manner.



Tightening Optimization — Improved quality on your existing line

FEATURES

- Result data evaluation (min 500 tightenings on regular production)
- Traces collection and evaluation (= advanced monitoring options)
- Setup and monitoring limitations - proposal
- Advanced strategies setup - snug gradient, Yield point, Gradient monitoring

BENEFITS

- Improved joint quality
- Increased productivity
- Reduced reworks, warranty and recall costs
- Reduced risk of liability claim and damage to reputation

Joint Analyses — Minimize the risk of Joint failure

FEATURES

- Friction analysis at the bolted connection
- Analysis of failure limits, clamping force, torque and relaxation behavior
- Determination of the optimal tightening process

BENEFITS

- Reduction of recall, warranty and rework costs
- Process reliability: Definition of process limits
- Guideline-compliant solutions for problematic joints

TRAININGS

More quality and productivity with expertise.



FEATURES & BENEFITS

- Competence in tightening techniques as well as standards and guidelines
- Categorization workshops (joint classification)
- Avoidance of operator-induced tool failures
- Increased sensitivity to quality-related concerns
- Safety and know-how in tightening technique
- Safe and correct use of tightening systems and measuring equipment in production
- Providing understanding of the equipment and its use as well as the processes, thus reducing tool misuse and improving quality and productivity



Sweden



Finland



Denmark



Norway

Atlas Copco



Digital Resources

DIGITAL RRESOURCES

DIMENSIONAL DRAWINGS AND 3D MODELS OF PRODUCTS

[illegible]

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Available at: <https://webbox.atlascopco.com/webbox/dimdrw/>
You can download dimensional drawings in PDF or 3D models.

DIGITAL TABLE, ONLINE CATALOGUE

Digital Table

Search

Application Type

Product Type

Power Source

Application Type

Assembly Tools and Solutions

Material Removal Tools

Drills

Bolting Solutions

Air Motors

Air Line Infrastructure

Accessories

Product Type

Electric Assembly Tools

Cordless Assembly Tools

Pneumatic Assembly Tools

Torque Controllers

Error Proofing Solutions

Quality Assurance

Fastened Solutions

Torque Software

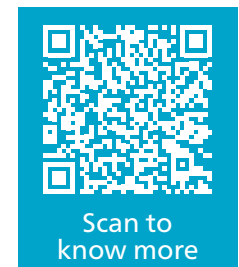
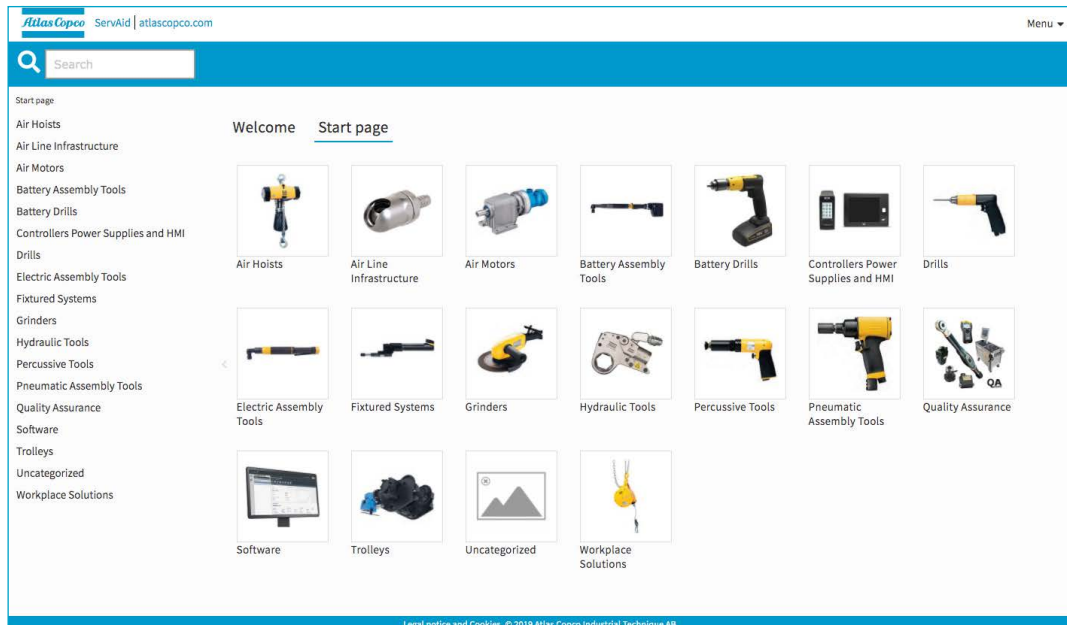


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Available at: <https://digitalcatalog.atlascopco.com>

Online catalogue, always update, search and filter functions, complete technical parameters and links to drawings, manuals and spare parts. Atlas Copco Digital Table substitutes traditional printed catalogue.

SERVAID - TECHNICAL INFORMATION, DOCUMENTATION, ACCESSORIES



Available at: <https://servaid.atlascopco.com/AssertWeb/en-US/AtlasCopco/Catalogue/1>

Portal where you can find following information:

- Product Data (weights, vibrations, noise, compliance with standards and many others)
- Accessories compatible with tool
- Spare Parts and Exploded views
- Service Kits
- Service Tools
- Safety Instructions
- Production Information
- EC Declarations of Conformity

NOTES

