

AIR-MECH LTD

Supplier of Industrial Tooling and Accessories for
Assembly, Fabrication & Maintenance

Atlas Copco



Atlas Copco Industrial Tools and Solutions

New Zealand Heavy Industry
Main Catalogue



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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

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			l/s	cfm			
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

Atlas Copco

Air Assembly Tools



Scan to 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



- 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).

PNEUMATIC NUTRUNNERS LMP61 AND LTP61



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 mm	Square drive in	Torque range at 6.3 bar		Min torque at 3 bar		Free speed rpm	Weight		Length mm	CS distance mm	Air consumption l/s	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb					
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 mm	Square drive in	Torque range at 6.3 bar		Min torque at 3 bar		Free speed rpm	Weight		Length mm	Angle head height mm	Angle head CS distance mm	Air consumption l/s	Air inlet thread in	Ordering No.
			Nm	ft lb	Nm	ft lb		kg	lb						
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	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



The Atlas Copco logo is displayed in white text within a blue rectangular box in the top right corner of the image.

Battery tools

SRB HA

Improve your operations with a high-productivity battery tool for all your critical applications.



Operator Control & Feedback

- Display with 3 buttons
- Pset Selection / Quick Torque
- Easy interface for the operator

Torque Range

- 11 models :
200/300/500/750/950/1300/2400/
3400/4000/ 4500/ 6500 Nm

IP41 Protection

- Ingress Protection

Function Button

- Customisable button / Reverse

Dual Trigger

- Both triggers need to be pressed
- Minimize risk of injury

Ergonomics

- Well balanced
- D handle for robustness and safety

Multi-functional LED

- White spotlight for dark areas
- OK/NOK feedback for operator

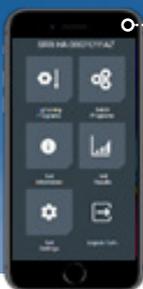


Connects direct to any mobile device

- No app
- No additional software
- No wifi network needed

Battery, Drive & Performance

- 36 V smart battery
- High performance motor
- Built in torque transducer and angle sensor



Atlas Copco has been a preferred supplier to the global manufacturing industry for decades. We were the first company to develop and introduce smart electric tools into the factories more than 30 years ago. With our new high torque battery nutrunner range, we are applying our knowledge and experience to take the smart factory to the field.

Atlas Copco's new battery range is equipped with a torque transducer for maximum reliability. All tools have a powerful motor and a new dual trigger design, minimizing the risk of injuries to operators. We are committed to make the operation process for our customers quicker, safer and smarter.

Atlas Copco battery tools come in three functionality levels to fit your specific requirements:



Feature / Model	Digital	Smart	Connected
Dual Trigger	✓	✓	✓
Socket Release	✓	✓	✓
Guiding LED Feedback	✓	✓	✓
Torque Transducer	✓	✓	✓
Permanent Magnet Motor	✓	✓	✓
HMI Display	✓	✓	✓
Internal wifi Server for Data Collection		✓	✓
Presets (10)		✓	✓
Batch Mode (10)		✓	✓
Angle Monitoring		✓	✓
Torque + Angle Strategy		✓	✓
Torque Tolerances		✓	✓
Live Data Collection			✓
Operator guidance			✓
SQS Configuration			✓
PF6000 / PF8 Configuration			✓

Smart Connected Bolting, taking smart factory to the field.



SRB HA Technical data

Model	Square drive	Torque range Nm	Speed rpm	Weight kg*	Length mm	CS distance mm
ETP SRB81-1300 HA	¾"	390-1300	23	5.5	378	32
ETP SRB81-2400-HA	1"	720-2400	11	6.8	428	35.5
ETP SRB81-3400-HA	1"	1020-3400	7	8.5	441	41
ETP SRB81-4000-HA	1"	1200-4000	5	8.5	441	41
ETP SRB81-4500-HA	1,5"	1350-4500	3.6	7.9	444	41
ETP SRB81-6500-HA	1,5"	1950-6500	2.6	12.1	481	50.5

* With battery

Model	Torque range [Nm]	Speed [rpm]	Weight [kg]	Spline / Wave	Sq. drive	Gear dia [mm]	Length [mm]	Tool Only Ordng No.	Tool complete Kit Ordering No.
ETP SRB81-200-20	60-200	139	3.63	S 3	3/4"	54	338	8433250111	8433250191
ETP SRB81-200-20-D	60-200	139	3.63	S 3	3/4"	54	338	8433250101	8433250181
ETP SRB81-300-20	90-300	103	3.63	S 3	3/4"	54	338	8433250211	8433250291
ETP SRB81-300-20-D	90-300	103	3.63	S 3	3/4"	54	338	8433250201	8433250281
ETP SRB81-500-20	150-500	65	4.56	S 4	3/4"	67	368	8433250311	8433250391
ETP SRB81-500-20-D	150-500	65	4.56	S 4	3/4"	67	368	8433250301	8433250381
ETP SRB81-750-25	225-750	46	4.87	S 4	1"	67	387	8433250411	8433250491
ETP SRB81-750-25-D	225-750	46	4.87	S 4	1"	67	387	8433250401	8433250481
ETP SRB81-950-25	285-950	35	5.04	S 5	1"	67	398	8433259511	8433259591
ETP SRB81-950-25-D	285-950	35	5.04	S 5	1"	67	398	8433259501	8433259581
ETP SRB81-1300-20-HA	390-1300	23	4.7	W 40	3/4"	63	384	8433250611	8433250691
ETP SRB81-1300-20-HA-D	390-1300	23	4.7	W 40	3/4"	63	384	8433250601	8433250681
ETP SRB81-2400-25-HA	720-2400	11	6	W 47	1"	67	431	8433250711	8433250791
ETP SRB81-2400-25-HA-D	720-2400	11	6	W 47	1"	67	431	8433250701	8433250781
ETP SRB81-3400-25-HA	1020-3400	7	7.7	W 60	1"	82	444	8433250011	8433250091
ETP SRB81-3400-25-HA-D	1020-3400	7	7.7	W 60	1"	82	444	8433250001	8433250081
ETP SRB81-4000-25-HA	1200-4000	5	7.7	W 60	1"	82	444	8433250811	8433250891
ETP SRB81-4000-25-HA-D	1200-4000	5	7.7	W 60	1"	82	444	8433250801	8433250881
ETP SRB81-4500-HA	1350-4500	3.6	7.9	W 60	1,5"	82	444	8433250911	8433250991
ETP SRB81-4500-HA-D	1350-4500	3.6	7.9	W 60	1,5"	82	444	8433250901	8433250981
ETP SRB81-6500-HA	1950-6500	2.6	11.9	W 72	1,5"	102	481	8433251011	8433251091
ETP SRB81-6500-HA-D	1950-6500	2.6	11.9	W 72	1,5"	102	481	8433251001	8433251081

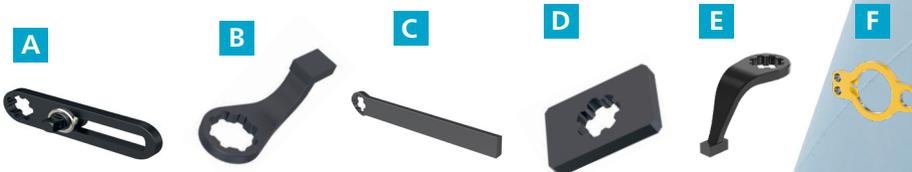
HA - D - Digital version

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 18-36V	4211 6083 84
Protective cover 36V	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	E. Deep socket S-type	F. Suspension yoke
SRB HA 1300	4210 4757 90	4210 4480 90	4210 4752 90	4210 4758 90	4210 4480 70	4216 7100 18
SRB HA 2400	4210 4757 93	4210 4480 94	4210 4752 93	4210 4758 93	4210 4480 74	4216 7100 18
SRB HA 3400/4000	4210 4757 85	4210 4480 85	4210 4752 85	4210 4785 85	4210 4480 75	4216 7100 17
SRB HA 4500	N/A	N/A	N/A	N/A	4210 4480 76	4216 7100 17
SRB HA 6500	4210 4757 92	4210 4480 92	4210 4752 92	4210 4758 92	N/A	4216 7100 19



AIR-MECH LTD

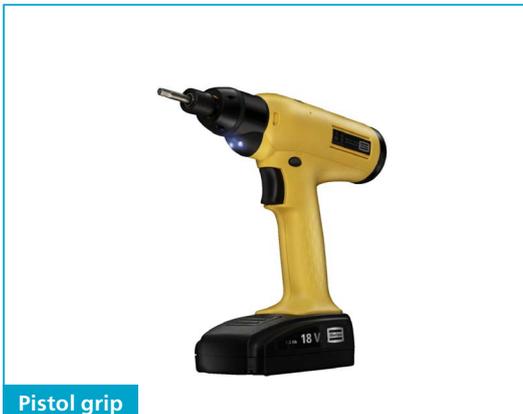
Supplier of Industrial Tooling and Accessories for
Assembly, Fabrication & Maintenance

Air-Mech Limited, Unit 1, 68 Marsden Bay Drive, Marsden Point, Whangarei 0118
Ph: (09) 837 4649 - NZ Toll Free 0800 AIR MECH (0800 247 6324)
Email: sales@air-mech.co.nz - Website: www.air-mech.co.nz

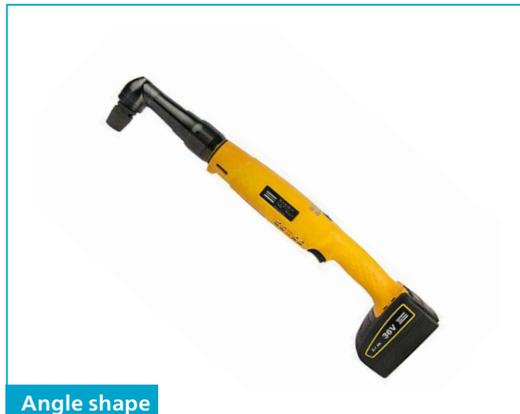
BCP AND BCV – BATTERY CLUTCH TOOLS

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: +/- 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).

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 mm	Height mm	Ordering No.
	In	Nm	ft lb	r/min	kg	lb					
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 mm	Height mm	Ordering No.
	In	Nm	ft lb	r/min	kg	lb					
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 BCV ACCESSORIES

BATTERIES

Model	Voltage	Electric charge	Weight		Charge time min	Ordering No.
	V		A h	kg		
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



Battery 36 V for BCV only

MULTICHARGER FOR BCV, BCP AND STB

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



Battery 18 V Flat pack

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



Battery 18 V Big pack

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



Battery multicharger 18V-36 V

COLOUR RINGS

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



Colour rings



Battery cover Flat pack



Battery cover Big pack



Tool holder



Support handle



Suspension bail



Speed setting unit V2



BCP protective cover

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



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)

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.



Scan to
know more

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.

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 know more

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

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		Square in	Square out	Ordering No.
	Nm	Gear ratio			
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



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



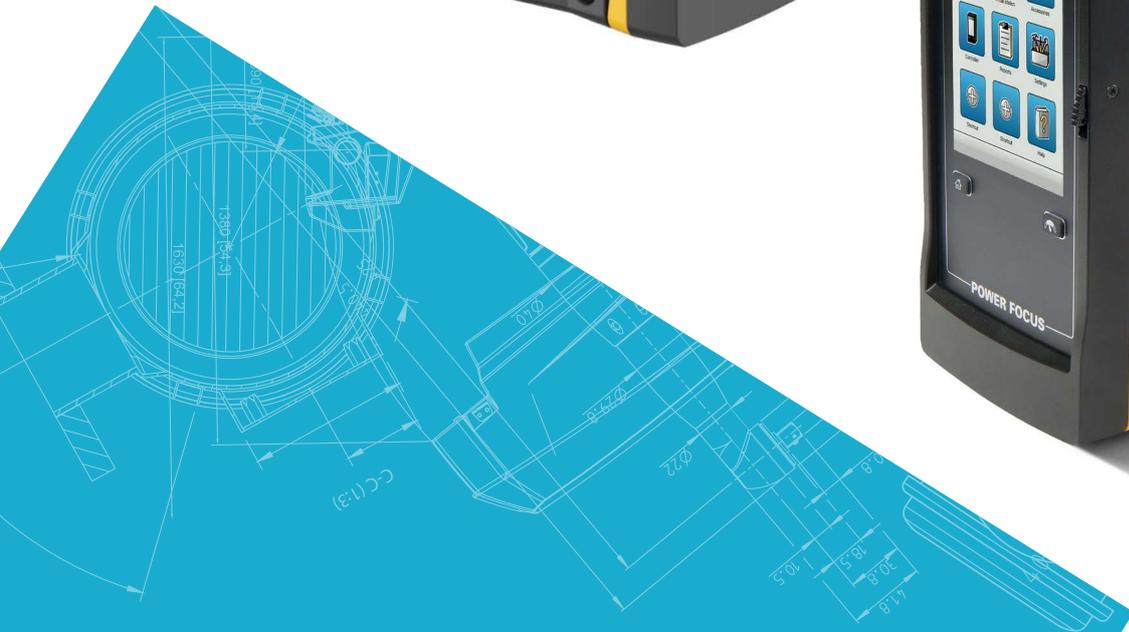
Straight aluminium bar

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



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.



TOOL TYPES THAT CAN BE CONNECTED TO POWER FOCUS 8



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



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
 <p>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.</p>	<ul style="list-style-type: none"> • 1 program • 1 sequence • 1 identifier • Only clutch step 	<ul style="list-style-type: none"> • Batch counting ensures correct number of tightenings performed
 <p>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.</p>	<ul style="list-style-type: none"> • 1 program • 1 sequence • 1 identifier • Torque control • Angle monitoring 	<ul style="list-style-type: none"> • Torque controlled and angle monitored tightenings, programming options for joints not suitable for air tools • Supports electric battery pulse tools (TBP-S)
 <p>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.</p>	<ul style="list-style-type: none"> • 16 programs • 16 sequences • 1 identifier • Torque control • Angle monitoring 	<ul style="list-style-type: none"> • Possible to replace multiple air tools with one electric tool • Supports torque controlled tightenings, improving accuracy compared to an air tool
 <p>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.</p>	<ul style="list-style-type: none"> • 250 programs • 250 sequences • 4 identifiers • Torque control • Angle control 	<ul style="list-style-type: none"> • Supports angle controlled tightening strategies • Supports up to four VIN numbers connected to a result
 <p>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.</p>	<ul style="list-style-type: none"> • 250 programs • 250 sequences • 4 identifiers • Torque control / angle control • Advanced tightening strategies 	<ul style="list-style-type: none"> • 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.

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

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



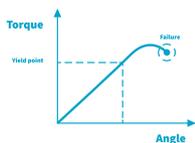
A Virtual Station feature that enables additional functionality while interacting with Open Protocol systems.

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

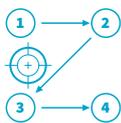


Yield Control enables a controlled strategy in the plastic zone by controlling the decrease in torque build-up when entering the plastic zone.

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 programing 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.

Atlas Copco

Torque Arms



Scan to
know more

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 mm	Max length mm	Tool holder swivel angle max [deg] mm	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, ETV STR61-70-13, ETV ST81-90-HAD, ETV STR61-100-HAD	4390 2061 82
	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 ETV ST101-100-INTEL, ETV S72-100-13	4390 2061 88
	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).

Balancers



WP balancer

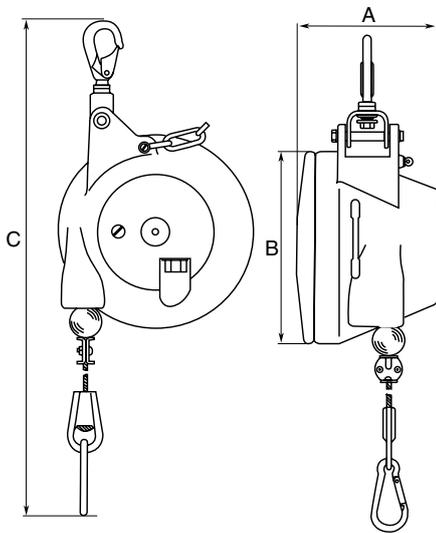
Weightless positioning balancers with a cone-shaped drum that holds the load in the correct position and keeps it weightless throughout the entire cable length. It minimizes worker fatigue.

Safety

The load is not pulled back when released and the environment is protected from accidental hoisting of the load.

- Steel cable with cable stop buffer.
- Safety chain.
- Quick and easy cable replacement.

Dimensions



Model	Capacity range		Cable length m	Weight		Dimension			Ordering No.
	kg	lb		kg	lb	A mm	B mm	C mm	
WP 05 - Standard									
WP 05-1	0.4-1.2	0.9-2.6	2	1.3	2.9	71	141	460	8202 0778 00
WP 05-3	1.2-2.6	2.6-5.7	2	1.4	3.1	71	141	460	8202 0778 01
WP 05-4	2.6-3.8	5.7-8.4	2	1.5	3.3	71	141	460	8202 0778 02
WP 05-5	3.8-5.2	8.4-11.5	2	1.5	3.3	71	141	460	8202 0778 03
WP 05-6	5.2-6.5	11.5-14.3	2	1.5	3.3	71	141	460	8202 0778 04
WP 05 - Extended Cable - A									
WP 05-1-A	0.4-1.2	0.9-2.6	5.5	1.3	2.9	71	141	460	8202 0778 05
WP 05-3-A	1.2-2.6	2.6-5.7	5.5	1.4	3.1	71	141	460	8202 0778 06
WP 05-4-A	2.6-3.8	5.7-8.4	5.5	1.5	3.3	71	141	460	8202 0778 07
WP 05-5-A	3.8-5.2	8.4-11.5	5.5	1.5	3.3	71	141	460	8202 0778 08
WP 05-6-A	5.2-6.5	11.5-14.3	5.5	1.5	3.3	71	141	460	8202 0778 09
WP 10 - Standard									
WP 10-3	3-5	6.6-11	2	2.9	6.4	130	188	521	8202 0779 00
WP 10-4.5	4.5-7	10-15.4	2	3.1	6.8	130	188	521	8202 0779 01
WP 10-6	6-10	13-22	2	3.2	7.0	130	188	521	8202 0779 02
WP 10-9	9-14	20-31	2	3.4	7.5	130	188	521	8202 0779 03
WP 10-13	13-17	29-37	2	3.6	8.0	130	188	521	8202 0779 04
WP 10-16	16-21	35-46	2	3.8	8.4	130	188	521	8202 0779 05
WP 10 - Extended Cable - A									
WP 10-3-A	3-5	6.6-11	5.5	2.9	6.4	130	188	521	8202 0779 06
WP 10-4.5-A	4.5-7	10-15.4	5.5	3.1	6.8	130	188	521	8202 0779 07
WP 10-6-A	6-10	13-22	5.5	3.2	7.0	130	188	521	8202 0779 08
WP 10-9-A	9-14	20-31	5.5	3.4	7.5	130	188	521	8202 0779 09
WP 10-13-A	13-17	29-37	5.5	3.6	8.0	130	188	521	8202 0779 10
WP 10-16-A	16-21	35-46	5.5	3.8	8.4	130	188	521	8202 0779 11
WP 20 - Standard									
WP 20-15	15-25	33-55	2	7.8	17.2	152	218	521	8202 0780 00
WP 20-25	25-35	55-77	2	8.9	19.6	152	218	521	8202 0780 01
WP 20-35	35-45	77-99	2	9.5	21.0	152	218	521	8202 0780 02
WP 20-45	45-55	99-121	2	9.8	21.5	152	218	521	8202 0780 03
WP 30 - Standard									
WP 30-12	12-20	26-44	2	14.8	32.6	203	285	749	8202 0781 00
WP 30-20	20-30	44-66	2	15.2	33.5	203	285	749	8202 0781 01
WP 30-30	30-45	66-99	2	16.9	37.3	203	285	749	8202 0781 02
WP 30-45	45-60	99-132	2	17.3	38.1	203	285	749	8202 0781 03
WP 30-60	60-75	132-165	2	18.7	41.2	203	285	749	8202 0781 04
WP 30-75	75-90	165-198	2	19.7	43.4	203	285	749	8202 0781 05
WP 30-90	90-100	198-220	2	19.9	43.4	203	285	749	8202 0781 06
WP 40 - Standard									
WP 40-100	100-115	220-254	3	42.0	43.9	348	320	800	8202 0782 00
WP 40-115	115-130	254-287	3	44.0	97.0	348	320	800	8202 0782 01
WP 40-130	130-140	287-309	3	46.0	101	348	320	800	8202 0782 02
WP 40-140	140-150	309-331	3	48.0	106	348	320	800	8202 0782 03



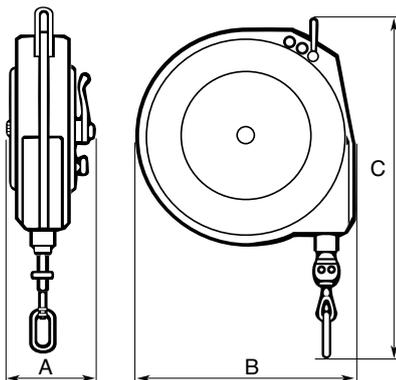
RIL balancer

RIL balancers always keep the tool in place, and easily accessible. RIL balancers are available as retractors or weightless positioning balancers.

RIL Retractors

- Adjustable wire stop.
- High quality spring and construction.
- Load range 0 to 10 kg.

Dimensions



Model	Capacity range		Cable length m	Weight		Dimensions			Ordering No.
	kg	lb		kg	lb	A mm	B mm	C mm	
Retractors									
RIL 1C	0.0-0.5	0.0-1.7	1.5	0.6	1.3	51	106	238	8202 0700 02
RIL 2C	0.4-1.0	0.9-2.2	1.5	0.6	1.3	51	106	238	8202 0701 19
RIL 4C	1.0-2.0	2.2-4.4	1.5	0.6	1.3	51	106	238	8202 0702 18
RIL 5C	1.4-2.3	3.1-5.1	1.5	0.6	1.3	51	106	238	8202 0703 25
RIL 10C	2.0-5.0	4.4-11.0	2.4	2.7	6.0	84	190	369	8202 0704 16
RIL 10CS ^a	2.0-5.0	4.4-11.0	2.4	2.7	6.0	84	190	369	8202 0704 20
RIL 15C	5.0-7.0	11.0-15.4	2.4	3.2	7.1	84	190	369	8202 0705 15
RIL 15CS ^a	5.0-7.0	11.0-15.4	2.4	3.2	7.1	84	190	369	8202 0705 20
RIL 22C	6.0-10.0	13.2-22.0	2.4	3.2	7.1	84	190	369	8202 0706 14
RIL 22CS ^a	6.0-10.0	13.2-22.0	2.4	3.2	7.1	84	190	369	8202 0706 20

^a Balancer equipped with automatic safety drum lock in case of spring failure.

NOTE: RIL 1C, 2C, 4C and 5C comes with nylon cable. All other models are equipped with steel wire.

Accessories

Safety chain

	Ordering No.
1C, 2C, 4C and 5C	4391 4045 90
10C, 15C and 22C	4391 4156 00



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