Atlas Copco ErgoPulse

Tighten up your assembly lines

Atlas Copco

ErgoPulse impulse tools – fast, reliable and operator friendly

The speed, reliability, and accuracy of ErgoPulse hydraulic impulse nutrunners, combined with the fact that they are comfortable to operate, make them suitable for continuous heavy production. Since there is no metal-to-metal impact in a pulse tool, it provides a softer, more controlled pulse with considerably less vibration and noise than an impact wrench.

A complete range

ErgoPulse impulse tools are available in straight and pistol grip, shut-off and non shut-off versions. The range covers torque from 2–900 Nm.

The ErgoPulse principle – The heart of a pulse tool is the hydraulic pulse unit. Since the pulses are very short, there is almost no reaction force in the handle, only the much lower motor torque is transferred to the operator's hand. In addition, there are less vibrations and noise than with an impact wrench. Combined with good balance and low weight the result is a tool that is very comfortable to operate.

PTS and PTX shut-off pulse tools

Atlas Copco shut-off pulse tools shut off the air supply when the pre-set torque is been reached. Operator influence is minimized and the result is increased accuracy and faster tightening.

Torque sensing system – In ErgoPulse PTS and PTX nutrunners torque is "sensed" by means of a rotatable inertial mass acting against an adjustable spring. The result is a highly accurate and easily adjustable shut-off system.

Pulse mechanism – The pulse mechanism has pistons for minimum weight and long service life. The design is based on cam-guided pistons and rollers and the pulse cylinder is oil-filled. The moving parts are thus completely immersed in oil, which ensures a long service life.

Twin chamber vane motor – This is designed to give high torque at low speed, which gives the best characteristics for fast, accurate tightening.

TRIM valve – A patented adjustable valve at the air outlet is used to maximize tool accuracy on one type of joint, which could be hard, medium or soft.

AUTOTRIM valve – PTS/PTX-AT tools are equipped with an automatic two-stage trim valve. The tool runs down the screw with reduced free speed. After 1-2 pulses it shifts automatically to full power thus enabling both hard and soft joints to be tightened with excellent results without any adjustments. The PTS/PTX-AT tools can also be used for reporting applications. ErgoPulse PTS-HRF – These are Air-on-Top versions which offer full flexibility. You either use the air inlet on top to avoid the disturbing hose hook or you use the conventional air inlet at the bottom of the handle – a convenient tool for use in workstations.

ErgoPulse PTX – The new ErgoPulse PTX series is intended for applications where weight is critical. The tools are available in both Trim and AutoTrim versions.

ErgoPulse 25PTX

At the top of the PTX range, is the new ErgoPulse 25PTX, which gives you 900 Nm of tightening torque in a tool weighing only 10.3 kg.

ErgoPulse XS non shut-off tools

ErgoPulse XS is the correct choice when the operator needs to control the process. The tools provide high torque, fast, accurate tightening and long service lifetimes.

Twin chamber vane motor – This is designed to give high torque at low speed, which provides the best characteristics for fast, reliable and accurate tightening.

Double or triple bladed pulse mechanisms – The tools are equipped with pulse units with two or three blades. They employ the Atlas Copco patented cam-guided design to push out the blades, giving very high reliability. The pulse units have a high power-to-weight ratio, making the tools very powerful for their size. Torque is adjusted by regulating an artificial leak in the hydraulic circuit.

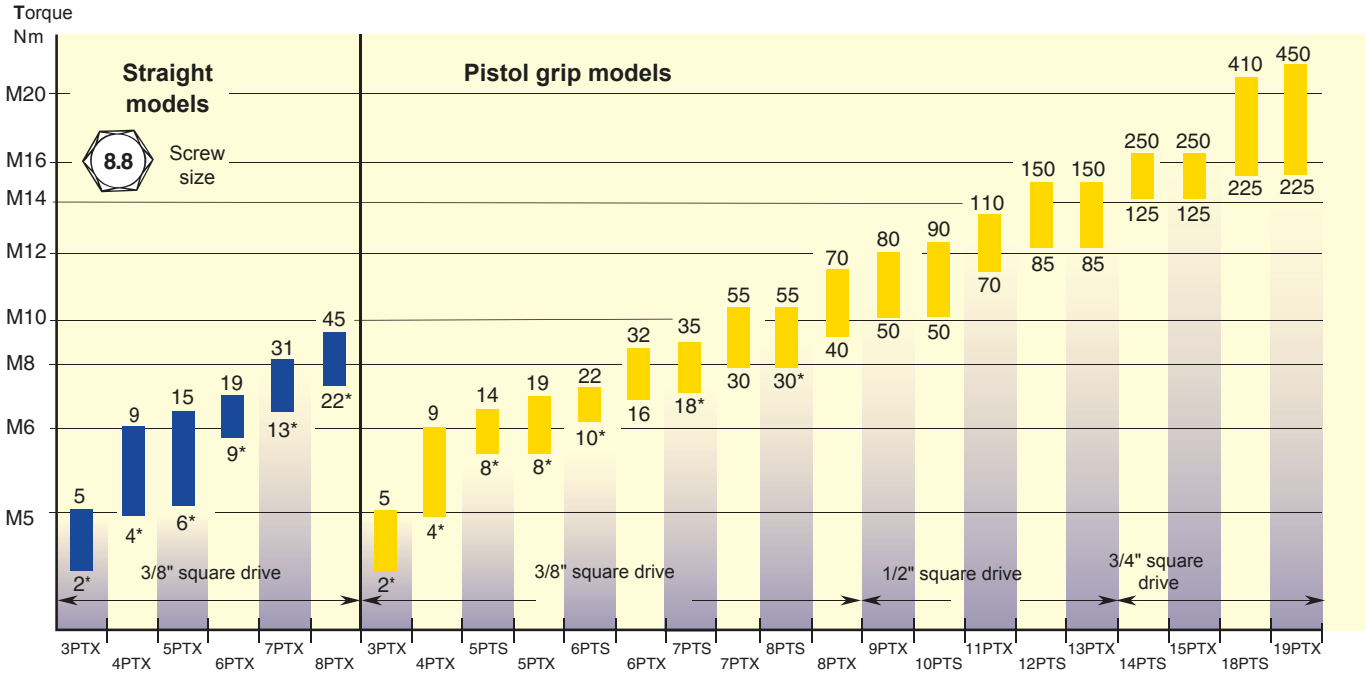
ErgoPulse 6PS

This model is a good choice for tightening self-tapping screws and when fast, powerful reversing is needed. Torque is adjusted by regulating the air pressure.

Selection Guide

EP PTS/PTX Shut-off models

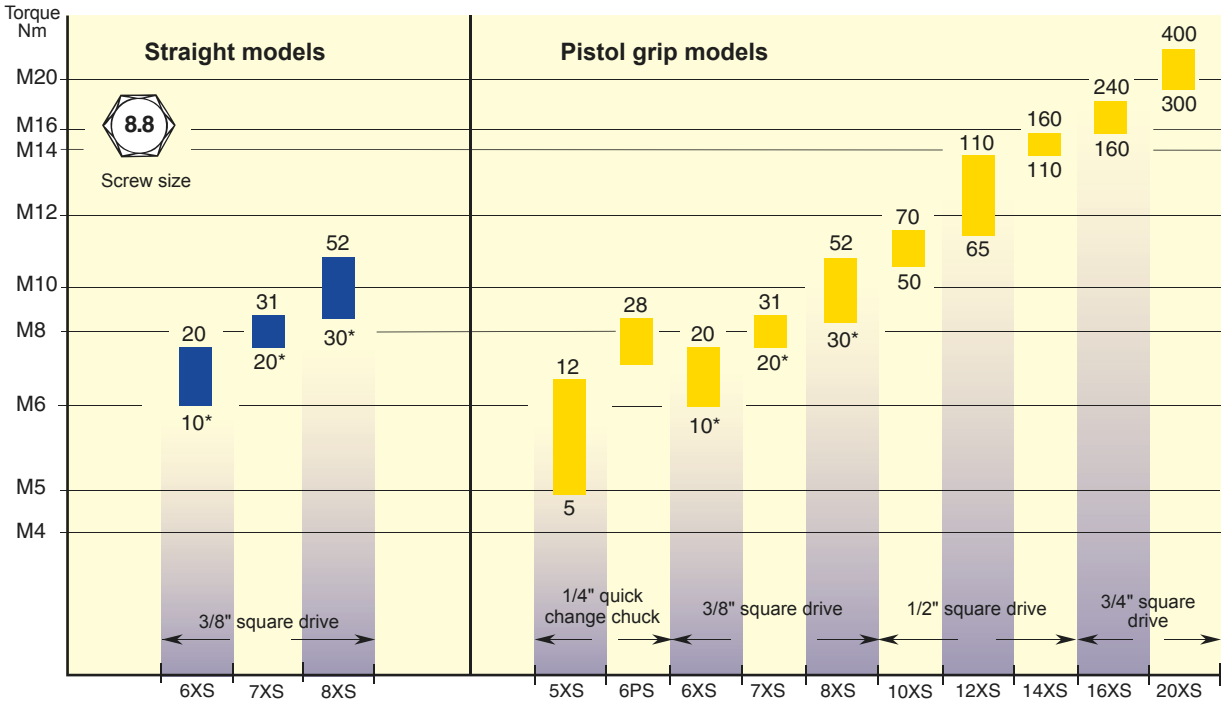
The ErgoPulse PTS and PTX tools can be adjusted within a wide torque range by simply setting the spring force that counteracts the inertia body. Torque should preferably be checked with a hand torque wrench. Electronic monitoring with an in-line transducer is possible but should be verified with a manual hand torque wrench to avoid measuring errors due to the extremely short pulse sequence.



* *For tools with quick change chuck, see technical data.*

EP XS/PS Non shut-off models

The size of tool is determined on the basis of torque and/or bolt dimension. Torque should preferably be checked with a hand torque wrench. Electronic monitoring with an in-line transducer is possible but should be verified with a manual hand torque wrench to avoid measuring errors due to the extremely short pulse sequence.



* *For tools with quick change chuck, see technical data.*

EP PTX models

In ErgoPulse shut-off tools the air supply is shut off as soon as the pre-set torque has been reached, minimizing operator influence. The result is increased accuracy and faster tightening.

- High reliability.
- Consistent torque over time, low mean-shift.
- High level of durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- No wear on key parts.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM-RE														
EP3PTX5 HR42-RE	M4-M5	1/4[b]	2 - 5	1.6 - 4	5000[c]	0.8	1.7	154	21	4	9	8	1/4	8431 0375 51
EP4PTX9 HR42-RE	M5	1/4[b]	4 - 9	3 - 7	3400[d]	0.9	1.9	164	22	4	9	8	1/4	8431 0375 50
EP4PTX9 HR10-RE	M5	3/8	4 - 9	3 - 7	3400[d]	0.9	1.9	164	22	4	9	8	1/4	8431 0375 54
EP5PTX17 HR42-RE	M6	1/4[b]	7 - 17	5 - 13	7000[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 00
EP5PTX19 HR10-RE	M6	3/8	8 - 19	6 - 14	7000[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 04
EP6PTX28 HR42-RE	M6-M8	1/4[b]	15 - 28	11 - 21	8500[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 10
EP6PTX32 HR10-RE	M6-M8	3/8	16 - 32	12 - 23	8500[d]	0.9	1.9	164	22	7	15	8	1/4	8431 0375 20
EP7PTX55 HR10-RE	M8-M10	3/8	30 - 55	22 - 40	7200[d]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 30
EP8PTX70 HR10-RE	M10	3/8	40 - 70	29 - 51	6900[d]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 60
EP9PTX80 HR13-RE	M10	1/2	50 - 80	37 - 59	5200[d]	1.5	3.3	188	29	11	23	10	1/4	8431 0375 40
EP11PTX120 HR13-RE	M12	1/2	70 - 110	51 - 88	5100[d]	1.7	3.8	196	29	12	25	10	1/4	8431 0376 50
EP13PTX150 HR13-RE	M12-M14	1/2	85 - 150	63 - 110	5300[d]	2.3	5.1	197	33.5	15	32	13	3/8	8431 0376 60
EP15PTX250 HR20-RE	M12-M16	3/4	125 - 250	92 - 184	4300[d]	3.1	6.8	216	36.5	21	45	13	3/8	8431 0376 70
EP19PTX450 HR20-RE	M16-M20	3/4	225 - 450	166 - 332	3300[d]	4.2	9.2	221	44	23	49	13	3/8	8431 0376 80
Trim-RE Low pressure models														
EP5PTX HR42-RE-L	M4-M5	1/4[b]	6 - 13	1.6 - 4	5900[e]	0.8	1.8	154	21	4	9	8	1/4	8431 0379 00
EP5PTX HR10-RE-L	M5	3/8	7 - 15	3 - 7	5900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 04
EP6PTX HR42-RE-L	M5	1/4[b]	11 - 22	3 - 7	7900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 10
EP6PTX HR10-RE-L	M6	3/8	13 - 25	5 - 13	7900[e]	0.9	2.0	164	22	7	15	8	1/4	8431 0379 20
EP7PTX HR10-RE-L	M6	3/8	23 - 35	6 - 14	6200[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 30
EP8PTX HR10-RE-L	M6-M8	3/8	33 - 45	11 - 21	6300[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 60
AutoTrim[d]														
EP3PTX5 HR42-AT	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[c]	0.8	1.8	154	21	4	9	8	1/4	8431 0375 53
EP4PTX9 HR42-AT	M5	1/4[b]	4 - 9	3 - 7	3300[c]	0.9	2.0	164	22	4	9	8	1/4	8431 0375 52
EP4PTX9 HR10-AT	M5	3/8	4 - 9	3 - 7	3300[c]	0.9	2.0	164	22	4	9	8	1/4	8431 0375 56
EP5PTX17 HR42-AT	M6	1/4[b]	7 - 17	5 - 13	5400[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 02
EP5PTX19 HR10-AT	M6	3/8	8 - 19	6 - 14	5400[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 06
EP6PTX28 HR42-AT	M6-M8	1/4[b]	15 - 28	11 - 21	8500[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 12
EP6PTX32 HR10-AT	M6-M8	3/8	16 - 32	12 - 23	8500[c]	0.9	2.0	164	22	7	15	8	1/4	8431 0375 22
EP7PTX55 HR10-AT	M8-M10	3/8	30 - 55	22 - 40	6900[c]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 32
EP8PTX70 HR10-AT	M10	3/8	40 - 70	29 - 51	6900[c]	1.2	2.5	176	25	9	19	10	1/4	8431 0375 62
EP9PTX80 HR13-AT	M10	1/2	50 - 80	37 - 59	5100[c]	1.5	3.4	188	29	11	23	10	1/4	8431 0375 42
EP11PTX120 HR13-AT	M12	1/2	70 - 110	51 - 88	5100[c]	1.7	3.8	196	29	12	25	10	1/4	8431 0376 52
EP13PTX150 HR13-AT	M12-M14	1/2	85 - 150	63 - 110	5300[c]	2.3	5.0	197	33.5	15	32	13	3/8	8431 0376 62
EP15PTX250 HR20-AT	M12-M16	3/4	125 - 250	92 - 184	4200[c]	3.1	6.8	216	36.5	21	45	13	3/8	8431 0376 72
EP19PTX450 HR20-AT	M16-M20	3/4	225 - 450	166 - 332	3300[c]	4.2	9.2	221	44	23	49	13	3/8	8431 0376 82
AutoTrim Low pressure models														
EP5PTX HR42-AT-L	M4-M5	1/4[b]	6 - 13	1.6 - 4	5900[e]	0.8	1.8	154	21	4	9	8	1/4	8431 0379 02
EP5PTX HR10-AT-L	M5	3/8	7 - 15	3 - 7	5900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 06
EP6PTX HR42-AT-L	M5	1/4[b]	11 - 22	3 - 7	7900[e]	0.9	2.0	164	22	4	9	8	1/4	8431 0379 12
EP6PTX HR10-AT-L	M6	3/8	13 - 25	5 - 13	7900[e]	0.9	2.0	164	22	7	15	8	1/4	8431 0379 22
EP7PTX HR10-AT-L	M6	3/8	23 - 35	6 - 14	6200[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 32
EP8PTX HR10-AT-L	M6-M8	3/8	33 - 45	11 - 21	6300[e]	0.9	2.0	164	22	7	15	10	1/4	8431 0379 62

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

[b] Female hexagon drive. Quick change chuck.

[c] In full speed mode.

[d] RE-reporting kit not included (Ordering No. 4250 1854 91).

[e] Measured at 5 bar air pressure.

EP PTS models

ErgoPulse PTS is the reliable and powerful workhorse and offers the same shut-off mechanism as the peak performer PTX. The PTS series has some air on top HRF models, making it possible to feed the air from above to the tool to make it easier to use in many applications. All PTS models can also be used as lubrication free, just like other ErgoPulse tools.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM-RE														
EP5PTS12 HR42-RE	M5-M6	1/4[b]	6 - 12	4 - 9	5400[c]	1.0	2.2	196	21	6.5	14	8	1/4	8431 0374 05
EP5PTS14 HR10-RE	M5-M6	3/8	8 - 14	6 - 10	5400[c]	1.0	2.2	191	21	6.5	14	8	1/4	8431 0374 00
EP6PTS20 HR42-RE	M6	1/4[b]	8 - 20	6 - 15	7300[c]	1.0	2.2	196	21	7	15	8	1/4	8431 0374 15
EP6PTS22 HR10-RE	M6	3/8	10 - 22	7 - 16	7300[c]	1.0	2.2	191	21	7	15	8	1/4	8431 0374 20
TRIM-RE														
EP7PTS30 HR42-RE	M8	1/4[b]	16 - 31	12 - 23	5700[c]	1.4	3.0	175	26	8	17	10	1/4	8431 0374 35
EP7PTS35 HR10-RE	M8	3/8	18 - 35	13 - 26	5700[c]	1.4	3.0	176	26	8	17	10	1/4	8431 0374 40
EP8PTS40 HR42-RE	M8	1/4[b]	22 - 40	16 - 29	7300[c]	1.4	3.0	175	26	9	19	10	1/4	8431 0374 55
EP8PTS55 HR10-RE	M8-M10	3/8	30 - 55	22 - 40	7300[c]	1.4	3.0	176	26	9	19	10	1/4	8431 0374 60
EP10PTS90 HR13-RE	M10-M12	1/2	50 - 90	37 - 66	5200[c]	1.8	4.0	193	29	11	23	10	1/4	8431 0374 80
EP12PTS150 HR13-RE	M12-M14	1/2	85 -150	63 -110	4200[c]	2.5	5.5	201	34	13	27	13	3/8	8431 0374 90
EP14PTS250 HR20-RE	M12-M16	3/4	125 -250	92 -185	4000[c]	3.3	7.2	216	37	20	42	13	3/8	8431 0374 95
EP18PTS410 HR20-RE	M16-M20	3/4	225 -410	166 -302	3000[c]	4.3	9.5	202	42	22	46	13	3/8	8431 0374 98
TRIM-RE with Air on top														
EP7PTS35 HRF10-RE	M8	3/8	18 - 35	13 - 26	5700[c]	1.4	3.0	176	31	8	17	10	1/4	8431 0374 41
EP8PTS55 HRF10-RE	M8-M10	3/8	30 - 55	22 - 40	7300[c]	1.4	3.0	176	31	9	19	10	1/4	8431 0374 61
EP10PTS90 HRF13-RE	M10-M12	1/2	50 - 90	37 - 66	5200[c]	1.8	4.0	193	34	11	23	10	1/4	8431 0374 81
AutoTrim with balanced grip[e]														
EP6PTS20 HR42-AT	M6	1/4[b]	8 - 20	6 - 15	6300[d]	1.0	2.2	196	21	7	15	8	1/4	8431 0374 16
EP6PTS22 HR10-AT	M6	3/8	10 - 22	7 - 16	6300[d]	1.0	2.2	191	21	7	15	8	1/4	8431 0374 21
AutoTrim balanced grip[e]														
EP7PTS30 HR42-AT	M8	1/4[b]	16 - 31	12 - 23	5400[d]	1.4	3.0	175	26	8	17	10	1/4	8431 0374 37
EP7PTS35 HR10-AT	M8	3/8	18 - 35	13 - 26	5400[d]	1.4	3.0	176	26	8	17	10	1/4	8431 0374 42
EP8PTS40 HR42-AT	M8	1/4[b]	22 - 40	16 - 29	6900[d]	1.4	3.0	175	26	9	19	10	1/4	8431 0374 57
EP8PTS55 HR10-AT	M8-10	3/8	30 - 55	22 - 40	6900[d]	1.4	3.0	176	26	9	19	10	1/4	8431 0374 62
EP10PTS90 HR13-AT	M10-12	1/2	50 - 90	37 - 66	4900[d]	1.8	4.0	193	29	11	23	10	1/4	8431 0374 82
EP12PTS150 HR13-AT	M12-14	1/2	85 -150	63 -110	4100[d]	2.5	5.5	201	34	13	27	13	3/8	8431 0374 92
EP14PTS250 HR20-AT	M12-16	3/4	125 -250	92 -185	3900[d]	3.3	7.2	216	37	20	42	13	3/8	8431 0374 97
EP18PTS410 HR20-AT	M16-20	3/4	225 -410	166 -332	2900[d]	4.3	9.5	202	42	22	46	13	3/8	8431 0374 99

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

[b] Female hexagon drive. Quick change chuck.

[c] With TRIM valve fully open.

[d] In full speed mode.

[e] RE-reporting kit not included (Ordering No. 4250 1854 91).

EP-XS models

In ErgoPulse non shut-off tools the tool produces pulses until the operator releases the trigger. Preferred in applications where it is an advantage for the operator to be able to control the process by shutting off the tool manually.

- High reliability and durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
EP5XS HR42	M5-M6	1/4[b]	5- 12	4- 9	8500	0.8	1.8	165	21	9	19	8	1/4	8431 0372 30
EP6XS HR42	M6	1/4[b]	9- 19	6- 14	8000	0.8	1.8	150	22	8	17	8	1/4	8431 0372 23
EP6XS HR10	M6	3/8	10- 20	7- 15	8000	0.8	1.8	152	22	8	17	8	1/4	8431 0372 20
EP6PS HR42	M8	1/4[b]	[c]- 28	[c]- 21	8000	0.8	1.8	148	21	9	19	10	1/4	8431 0368 22
EP6PS HR10	M8	3/8	[c]- 30	[c]- 22	8000	0.8	1.8	150	21	9	19	10	1/4	8431 0368 21
EP8PS HR10	M8-M10	3/8	[c]- 65	[c]- 48	8000	1.0	2.2	158	23	9	19	10	1/4	8431 0368 24
EP7XS HR42	M8	1/4[b]	17- 28	13- 21	9000	0.8	1.8	150	22	8	17	8	1/4	8431 0372 10
EP7XS HR10	M8	3/8	20- 31	15- 23	9000	0.8	1.8	152	22	8	17	8	1/4	8431 0372 00
EP8XS HRX42	M8	1/4[b]	22- 40	16- 29	7000	1.0	2.2	172	23	9	19	10	1/4	8431 0369 16
EP8XS HRX10	M8-M10	3/8	30- 52	22- 38	7000	1.0	2.2	174	23	9	19	10	1/4	8431 0369 09
EP10XS HR13	M10	1/2	50- 70	37- 52	6000	1.3	2.9	168	26	11	23	10	1/4	8431 0369 40
EP12XS HR13	M12	1/2	65- 110	48- 81	4500	1.6	3.5	178	29	12	25	10	1/4	8431 0371 00
EP14XS HR13	M14	1/2	110- 160	81- 118	3500	2.4	5.3	188	34	14	30	13	3/8	8431 0371 50
EP16XS HR20	M16	3/4	160- 240	118- 177	2800	3.3	7.3	205	37	15	32	13	3/8	8431 0371 55
EP20XS HR20	M20	3/4	300- 400	221- 295	3700	5.1	11.2	240	43	16	34	13	3/8	8431 0371 60

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

[b] Female hexagon drive. Quick change chuck.

[c] Torque is adjusted by regulating the air pressure.

EP PTX models

In ErgoPulse shut-off tools the air supply is shut off as soon as the pre-set torque has been reached, minimizing operator influence. The result is increased accuracy and faster tightening.

- High reliability.
- Consistent torque over time, low mean-shift.
- High level of durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- High precision components.
- No reaction forces.
- Low noise levels.
- Lubrication free.

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
TRIM														
EP3PTX5 SR42	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[d]	0.7	1.6	202	21	4	9	8	1/4	8431 0376 01
EP4PTX9 SR42	M5	1/4[b]	4 - 9	3 - 7	3400[d]	0.9	2.0	207	21	4	9	8	1/4	8431 0376 00
EP4PTX9 SR10	M5	3/8	4 - 9	3 - 7	3400[d]	0.9	2.0	207	21	4	9	8	1/4	8431 0376 04
EP5PTX14 SR42	M6	1/4[b]	7 - 14	5 - 10	5300[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 10
EP5PTX15 SR10	M6	3/8	9 - 15	7 - 11	5300[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 14
EP6PTX18 SR42	M6	1/4[b]	9 - 18	7 - 13	6800[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 20
EP6PTX19 SR10	M6	3/8	10 - 19	7 - 14	6800[d]	0.9	2.0	207	21	7	15	8	1/4	8431 0376 24
EP7PTX28 SR42	M6-M8	1/4[b]	17 - 28	13 - 21	4300[d]	1.2	2.5	235	25	8	17	10	1/4	8431 0376 30
EP7PTX31 SR10	M6-M8	3/8	18 - 31	13 - 23	4300[d]	1.2	2.5	235	25	8	17	10	1/4	8431 0376 34
EP8PTX38 SR42	M8	1/4[b]	22 - 38	16 - 28	5500[d]	1.2	2.5	235	25	9	19	10	1/4	8431 0376 44
EP8PTX45 SR10	M8	3/8	24 - 45	18 - 33	5500[d]	1.2	2.5	235	25	9	19	10	1/4	8431 0376 40
TRIM-RE														
EP25PTX900 GR25-RE	M24-M27	1	450 -900	330 -660	4500[d]	10.3	22.7	406	58.5	30	63	13	1/2	8431 0376 90
AutoTrim[e]														
EP3PTX5 SR42-AT	M4-M5	1/4[b]	2 - 5	1.6 - 4	4500[c]	0.8	1.7	262	21	4	9	8	1/4	8431 0376 03
EP4PTX9 SR42-AT	M5	1/4[b]	4 - 9	3 - 7	3300[c]	0.9	2.0	267	21	4	9	8	1/4	8431 0376 02
EP4PTX9 SR10-AT	M5	3/8	4 - 9	3 - 7	3300[c]	0.9	2.0	267	21	4	9	8	1/4	8431 0376 06
EP5PTX14 SR42-AT	M6	1/4[b]	7 - 14	5 - 10	4800[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 12
EP5PTX15 SR10-AT	M6	3/8	9 - 15	7 - 11	4800[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 16
EP6PTX18 SR42-AT	M6	1/4[b]	9 - 18	7 - 13	6700[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 22
EP6PTX19 SR10-AT	M6	3/8	10 - 19	7 - 14	6700[c]	0.9	2.0	267	21	7	15	8	1/4	8431 0376 26
EP7PTX28 SR42-AT	M6-M8	1/4[b]	17 - 28	13 - 21	4300[c]	1.2	2.5	295	25	7	15	10	1/4	8431 0376 32
EP7PTX31 SR10-AT	M6-M8	3/8	18 - 31	13 - 23	4300[c]	1.2	2.5	295	25	7	15	10	1/4	8431 0376 36
EP8PTX38 SR42-AT	M8	1/4[b]	22 - 38	16 - 28	5900[c]	1.2	2.5	295	25	9	19	10	1/4	8431 0376 46
EP8PTX45 SR10-AT	M8	3/8	24 - 45	18 - 33	5900[c]	1.2	2.5	295	25	9	19	10	1/4	8431 0376 42
AutoTrim Low pressure models														
EP5PTX SR42-AT-L	M4-M5	1/4[b]	7 - 12	1.6 - 4	4800[f]	0.7	1.6	267	21	4	9	8	1/4	8431 0368 03
EP5PTX SR10-AT-L	M5	3/8	8 - 13	3 - 7	4800[f]	0.9	2.0	267	21	4	9	8	1/4	8431 0368 01
EP6PTX SR42-AT-L	M5	1/4[b]	9 - 16	3 - 7	6300[f]	0.9	2.0	267	21	4	9	8	1/4	8431 0368 15
EP6PTX SR10-AT-L	M6	3/8	10 - 17	5 - 10	6300[f]	0.9	2.0	267	21	7	15	8	1/4	8431 0368 09
EP7PTX SR42-AT-L	M6	1/4[b]	15 - 21	7 - 11	4000[f]	0.9	2.0	295	21	7	15	8	1/4	8431 0368 46
EP7PTX SR10-AT-L	M6	3/8	16 - 22	7 - 13	4000[f]	0.9	2.0	295	21	7	15	8	1/4	8431 0368 35
EP8PTX SR42-AT-L	M6	1/4[b]	20 - 28	7 - 14	5300[f]	0.9	2.0	295	21	8	15	10	1/4	8431 0367 81
EP8PTX SR10-AT-L	M6-M8	3/8	21 - 32	13 - 21	5300[f]	1.2	2.5	295	25	8	17	10	1/4	8431 0367 83

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

[b] Female hexagon drive. Quick change chuck.

[c] In full speed mode.

[d] With TRIM valve fully open.

[e] RE-reporting kit not included (Ordering No. 4250 1854 91).

[f] Measured at 5 bar air pressure.

XS models

In ErgoPulse non shut-off tools the tool produces pulses until the operator releases the trigger. Preferred in applications where it is an advantage for the operator to be able to control the process by shutting off the tool manually.

- High reliability and durability.
- High speed, short cycle times.
- One-handed operation.
- High power-to-weight ratio.
- No springs to wear out.
- No wear on key parts.
- High precision components.
- No reaction forces.
- Light, well-balanced tools.
- Low noise levels.
- Lubrication free.

EP6XS SR

Model	Bolt size mm	Square drive in	Torque range[a] Nm	Torque range[a] ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
EP6XS SR42	M6	1/4[b]	9 -19	6 - 14	8000	0.7	1.5	219	22	8	17	8	1/4	8431 0372 27
EP6XS SR10	M6	3/8	10 -20	7 - 15	8000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 25
EP7XS SR42	M8	1/4[b]	17 -28	13 - 21	10000	0.7	1.5	219	22	8	17	8	1/4	8431 0372 15
EP7XS SR10	M8	3/8	20 -31	15 - 23	10000	0.7	1.5	221	22	8	17	8	1/4	8431 0372 05
EP8XS SR42	M8	1/4[b]	22 -40	16 - 29	8000	0.9	2.0	242	24	9	19	8	1/4	8431 0369 30
EP8XS SR10	M8-M10	3/8	30 -52	22 - 38	8000	0.9	2.0	244	24	9	19	8	1/4	8431 0369 20

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

[b] Female hexagon drive. Quick change chuck.

Optional Accessories

Guided extensions

Available for	Square drive in	Dia. of outgoing spindle mm	Length mm	Marking	Ordering No.
6-8XS, 5-8PT/PTS/PTX	3/8	13	100	EP10-13-100	4023 3600 00
	3/8	13	150	EP10-13-150	4023 3601 00
	3/8	13	200	EP10-13-200	4023 3611 00
	3/8	13	250	EP10-13-250	4023 3612 00
	3/8	13	300	EP10-13-300	4023 3613 00
10C, 10-12XS	1/2	16	100	EP13-16-100	4023 3602 00
	1/2	16	150	EP13-16-150	4023 3603 00
	1/2	16	200	EP13-16-200	4023 3604 00
	1/2	16	250	EP13-16-250	4023 3614 00
	1/2	16	300	EP13-16-300	4023 3615 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	18	100	EP13-18-100	4023 3605 00
	1/2	18	150	EP13-18-150	4023 3606 00
	1/2	18	200	EP13-18-200	4023 3607 00
	1/2	18	250	EP13-18-250	4023 3616 00
	1/2	18	300	EP13-18-300	4023 3617 00
16XS/20XS, 14PTS/18PTS, 15PTX/19PTX	3/4	25	100	EP20-25-100	4023 3608 00
	3/4	25	150	EP20-25-150	4023 3609 00
	3/4	25	200	EP20-25-200	4023 3610 00
	3/4	25	250	EP20-25-250	4023 3618 00
	3/4	25	300	EP20-25-300	4023 3619 00

Guided extensions

Guided sockets

Available for	Square in	Width across mm/in	Diameter of outgoing mm	Marking	Ordering No.
Metric sockets					
6-8XS, 5-8PT/PTS/PTX	3/8	10	13	EP10-13	4026 4210 00
	3/8	13	13	EP13-13	4026 4213 00
	3/8	16	13	EP16-13	4026 4216 00
	3/8	17	13	EP17-13	4026 4217 00
	3/8	18	13	EP18-13	4026 4218 00
	3/8	19	13	EP19-13	4026 4219 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	13	18	EP13-18	4026 4313 00
	1/2	16	18	EP16-18	4026 4316 00
	1/2	17	18	EP17-18	4026 4317 00
	1/2	18	18	EP18-18	4026 4318 00
	1/2	19	18	EP19-18	4026 4319 00
	1/2	24	18	EP24-18	4026 4324 00
16XS/20XS, 14PTS/18PTS, 15PTX/19PTX	3/4	18	25	EP18-25	4026 4418 00
	3/4	24	25	EP24-25	4026 4424 00
	3/4	30	25	EP30-25	4026 4430 00
UNC/UNF-sockets					
6-8XS, 5-8PT/PTS/PTX	3/8	7/16	13	EP7/16-13	4026 4211 00
	3/8	1/2	13	EP1/2-13	4026 4212 00
	3/8	9/16	13	EP9/16-13	4026 4214 00
	3/8	3/4	13	EP3/4-13	4026 4219 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	1/2	18	EP1/2-18	4026 4312 00
	1/2	9/16	18	EP9/16-18	4026 4314 00
	1/2	3/4	18	EP3/4-18	4026 4319 00
	1/2	15/16	18	EP15/16-18	4026 4323 00
16XS/20XS, 14PTS/18PTS, 15PTX/19PTX	3/4	3/4	25	EP3/4-25	4026 4419 00
	3/4	15/16	25	EP15/16-25	4026 4423 00
	3/4	11/8	25	EP11/8-25	4026 4429 00

Guided sockets

Guided quick change chuck for power tools

Available for	Square drive in	Female hex in	Diameter of outgoing spindle mm	Marking	Ordering No.
6-8XS, 5-8PT/PTS/PTX	3/8	1/4	13	EP3/8-1/4-13	4026 4501 00
	3/8	7/16	13	EP3/8-7/16-13	4026 4502 00
14XS, 9-13PTX, 10-12PT/PTS	1/2	7/16	18	EP1/2-7/16-18	4026 4503 00

Guided quick change chuck

Optional Accessories

Pistol grip models	Protective cover	Support handle
EP6/7XS HR	4250 2089 00	
EP8XS HRX	4250 1895 00	
EP10XS HR	4250 1784 00	
EP12XS HR	4250 2459 00	
EP14XS HR	4250 2160 00	
EP16XS HR	4250 2282 00	4250 2396 91
EP20XS HR	4250 2288 00	Included
EP4/5/6PTX HR	4250 2465 00	
EP7/8PTX HR	4250 2466 00	
EP9PTX HR	4250 2467 00	
EP11PTX HR	4250 2551 00	
EP13PTX HR	4250 2718 00	4250 2396 81
EP15PTX HR	4250 2674 00	4250 2396 83
EP19PTX HR	4250 2719 00	4250 2396 82
EP5/6PT/PTS HR	4250 2393 00	
EP7/8PT/PTS HR	4250 1784 00	
EP10PT/PTS HR	4250 1743 00	
EP12PT/PTS HR	4250 1858 00	
EP14PTS HR	4250 2228 00	4250 2396 81
EP18PTS HR	4250 2319 00	4250 2396 80

For complete information, see spare parts list.

Support handle

Protective cover

Service Kits

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

Main parts included:

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

Model	O-ring kit pulse unit	Service kit	Model	O-ring kit pulse unit	Service kit
EP5XS	4210 2532 93	4081 0264 90	EP7PTX HR	4250 2058 90	4081 0122 90
EP6/7XS HR	4250 2084 90	4081 0188 90	EP8PTX HR	4250 2267 91	4081 0279 90
EP6/7XS SR	4250 2084 90	4081 0189 90	EP9PTX HR	4250 2058 90	4081 0122 90
EP6PS HR	4250 2058 91	4081 0274 90	EP11PTX HR	4250 2267 95	4081 0310 90
EP8PS HR	4250 2059 90	4081 0120 90	EP13PTX HR	4250 2267 92	4081 0226 90
EP8XS HR	4250 2085 90	4081 0119 90	EP15PTX HR	4250 2267 93	4081 0242 90
EP8XS SR	4250 2085 90	4081 0190 90	EP19PTX HR	4250 2267 94	4081 0256 90
EP10XS HR	4250 2086 90	4081 0191 90	EP5/6PTS HR	4250 2058 90	4081 0122 90
EP12XS HR	4250 2087 90	4081 0192 90	EP7/8PTS HR	4250 2267 91	4081 0225 90
EP14XS HR	4250 2170 90	4081 0200 90	EP10PTS HR	4250 2267 90	4081 0222 90
EP16XS HR	4250 2281 90	4081 0223 90	EP12PTS HR	4250 2267 92	4081 0226 90
EP20XS HR	4250 2281 91	4081 0245 90	EP14PTS HR	4250 2267 93	4081 0242 90
EP4PTX HR	4250 2058 90	4081 0122 90	EP18PTS HR	4250 2267 94	4081 0256 90
EP5/6PTX HR	4250 2058 90	4081 0122 90			

Oil filling kit (150 ml oil, syringe) 4081 0121 90

For complete information, see spare parts list.

An impulse tool with fastening system intelligence

Atlas Copco's Pulsor C System gives you all the advantages of a controlled impulse tool, plus the intelligence of an electric fastening system. Like all Atlas Copco impulse tools, Pulsor C is fast, powerful, light and compact and generates virtually no reaction force. The controller remembers up to 4,000 tightenings that can be stored and analyzed. This enables you to fine-tune your process and ensure that every tightening in every shift is perfect. If they are not perfect, you can see why.

The Pulsor C, with its control system, is designed for quality critical applications. Pulsor C alerts you to mistakes as soon as they are made. Lights on the back of the tool indicate if screws are correctly tightened. They inform the user about torque, early shut-off or if parts have been forgotten. Pulsor C will control repeatability and can report results.

The system

The Pulsor C system comprises the tool, cable, controller and tool control box where the shut-off valve is located.

The tool

Pulsor C tools are an ergonomic, high-performance range of impulse nutrunners with signal lights to provide direct operator feedback. No mechanical torque setting in tool.

Cables

The strong, resistant electric tool cable is available in three versions: straight, coil and spiral.

Tool Control Box

Pressure adjustment and tool shut-off valves are located in this box.

Controller

The controller remembers up to 4,000 tightenings – everything from torque results and rundown time to identification number (see below for a full list of parameters). The results can easily be sent to a network and stored on a server. They can also be transferred directly to a PC and then analyzed in a program such as Excel. This means that you can easily fine-tune your process.

Pulsor monitors and records:

- Torque result
- Angle result
- Premature shut-off
- Number of pulses
- Tightening time
- Rundown time
- Barcode number

Software

The PC based ToolsTalk Pulsor C software is used for making all system settings.

- Tool settings
- Communication settings to factory networks

The Pulsor C tool is fast and powerful. It is also light, compact and generates virtually no reaction force, making it a very comfortable tool to work with.

- Fast rundown. Up to 9000 rpm for highest productivity.
- No need for reaction arm. Virtually no reaction force due to pulse tightening.
- Avoid downtime. Get an early warning with Tool drift alarm.
- Easy to service. Patented pulse technology with few parts.
- Plan service with service alarms.
- Illumination of working area with bright LED.
- Operator feedback after tightening with LED lights (OK/NOK).

Check with your local Atlas Copco Tools representative regarding availability on your market.

Model	Bolt size mm	Square drive in	Torque range Nm	Torque range ft lb	Free speed r/min	Weight kg	Weight lb	Length mm	CS distance mm	Air consumption under load l/s	Air consumption under load cfm	Rec. hose size mm	Air inlet thread in	Ordering No.
Tools with ball retainer														
EPP6 C32 HR-B10	M6-M8	3/8	16-32	12-24	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 55
EPP8 C55 HR-B10	M8-M10	3/8	30-55	22-40	7000	1.5	3.4	172	26	8	17	10	1/4	8431 0380 59
EPP10 C90 HR-B13	M10	1/2	50-90	37-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 64
EPP11 C110 HR-B13	M12	1/2	70-110	51-88	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 68
Tools with pin retainer														
EPP6 C32 HR10	M6-M8	3/8	16-32	12-24	9000	1.3	2.8	164	23	7	15	10	1/4	8431 0380 48
EPP8 C55 HR10	M8-M10	3/8	30-55	22-40	7000	1.5	3.4	172	26	8	17	10	1/4	8431 0380 57
EPP10 C90 HR13	M10	1/2	50-90	37-66	5500	2	4.5	184	30	11	23	10	1/4	8431 0380 62
EPP11 C110 HR13	M12	1/2	70-110	51-88	5100	2.1	4.6	192	30	12	25	13	1/4	8431 0380 66

Controller software

Pulsor's functionality is unlocked with the RBU (Rapid Backup Unit) key. This patented device gives you access to the functionality you need while providing a backup for the data you have programmed yourself.

Function	RBU Gold
Number of results in the result database	4000
Tool Setup	Yes
Tool Lock Box	Yes
Network/TCP/IP	Yes
I/O-bus (CAM-cabel)	Yes
Click wrench	Yes
ToolsNet	Yes
Number of Psets	up to 100
Number of jobs	up to 100
Statistics	Yes
Number of events	500
Barcode reader	Yes
Tool drift alarm	Yes

Optional Accessories

Tool accessories

Model	Ordering No.
Controllers	
Pulsor Focus 4000-C-HW	8433 6900 20
Pulsor Focus 4000-C-DN-HW	8433 6940 20
Pulsor Focus 4000-C-PB-HW	8433 6942 20
Pulsor Focus 4000-C-PN-HW	8433 6948 20
Pulsor Focus 4000-C-EIP-HW	8433 6949 20
Pulsor Focus 4000-C-IB-HW	8433 6945 20
Tool Control Box	
TCB-1E	8433 0606 40
RBU	
Pulsor C - Gold	8433 6020 20
TCB cables	
Cable PF - TCB, 1.2 m	4250 2901 01
Cable PF - TCB, 5 m	4250 2901 05
Cable PF - TCB, 10 m	4250 2901 10
Tool cables	
Straight 5 m	4250 2533 05
12 m	4250 2533 12
Spiral 5 m	4250 2533 06
12 m	4250 2533 13
Coil 3 m	4250 2533 53
5 m	4250 2533 55
7 m	4250 2533 57
Back plate (for attaching PF and TCB in one plate)	4250 2829 90
PCU - Pulsor Control Unit (Includes: controller, RBU, TCB, back plate, cable 1 m)	
PCU	8433 6990 30
ToolsTalk Pulsor C	
1-user license	8092 1281 01
5-user license	8092 1281 05
10-user license	8092 1281 10
Plant license	8092 1281 99
Suspension yoke (for upside down hanging, all models)	4250 2720 00

Tool Control Box (TCB)

Pulsor Focus

Spiral cable

Straight cable

Coil cable

Selector 4

Controller accessories

Model	Ordering No.
Rotary selector	8433 0606 15
I/O Expander	8433 0564 39
RE-Alarm	8433 0560 03
Selector 4	8433 0610 04
Selector 8	8433 0610 08
Operator panel basic	8433 0565 10
Operator panel advanced	8433 0565 00
Stacklights	
ESL-04 Standard	8433 0570 13
Rotating red	8433 0570 30
Rotating yellow	8433 0570 35
Siren	8433 0570 40
Compact	8433 0570 16
DSL-03 with push button	8433 0570 10
with blanking plugs	8433 0570 11

Stacklight DSL-03

Operator panel Basic

Tool hose kits

Model	Hose kit	Ordering No.
EPP6 - EPP10	Cablair 10, 5 m + Ergo couplings	8202 1180 78
EPP11	Cablair 13, 5 m + Ergo couplings	8202 1180 79