



ERGO PULSE TOOLS



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT



WARNING

Read and carefully observe these operating instructions before unpacking and operating the tool . The tool must be operated, maintained and re-paired exclusively by persons familiar with the operating instructions. Local safety regulations regarding installation and maintenance must be followed .

INSTALLING TOOL

- For safety, performance and durability of parts, operate this tool at 90psi (6.3kg/cm³) maximum air pre-ssure at inlet with 3/8" (10mm) inside diameter air supply hose .
- For safety reasons, the tool must always be disconnected from the air supply during connection and adjustment work .
- Do not use damaged, frayed air hoses and fittings .
- Before sure all hoses and fitting are the correct size and are tightly secured .
- Always use clean, dry air at 90psi (6.3kg/cm³) maximum air pressure. moisture can ruin the motor of an air tool .
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel .
- Do not remove any labels, replace Any damaged label .



USING THE TOOL

- Never work without protective goggles.
- Always wear hearing protection when operating this tool .
- Be aware of the direction of rotation when operating the throttle .
- Keep hands, loose clothing and long hair away from rotating end of tool .
- Keep body stay balanced and firm. Do not over reach when operating this tool.
- High reaction torque can be occur at or below the recommended air pressure .
- Use power sockets only, For safe and economic use-replace worn sockets .
- This tool, together with any attachments and accessories, must never be used for anything other than the designed purpose .

SYMBOLS

	Caution				
This symbol identifies the potential for a hazardous situation. If this warning is not followed, a serious injury could occur.	This symbol identifies the potential for a damanging situation. If a caution note is not followed, the product or parts of the product could be damaged.	Avoid direct skin contact when working with oil to prevent skin irrita-tions.	Always wear eye protection when operating or performing maintenance on this tool.	Always wear hearing protection when operating this tool.	Recycling raw materials instead of disposing as waste.



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NOTICE

The use of other than genuine replacement parts may result in safety hazards decreased tool performance, and increased maintenance and may in-validate all warranties.

Repairs should be made only by authorized trained personnel
For parts and service information, contact your local distributors

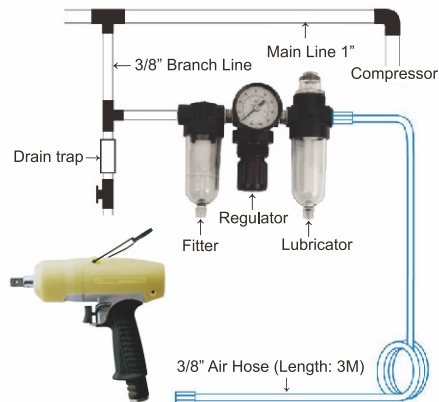
PRODUCT DESCRIPTION

The pulse tool is a similar design to impact wrench, however with a integrated hydraulic oil pressure unit. Combination of torque control, forward/reverse operation. Low noise and low vibration .



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT

COMPRESSED AIR SCHEMATIC



RECOMMENDED COMPRESSED AIR SYSTEM

Caution

Lubrication
While installing air compressor system, be sure to have filters, separators for oil and water, regulators, and lubricators to increase work efficiency, prolong the life of air tools and reduce maintenance cost.

Suggestion air hose size :
Main Line : 3 times air tool inlet size
Branch Line : 2 times air tool inlet size

To keep the best performance of tool, please install the air hose size correctly

Using hydraulic pulse tools, the air pressure and the size of the trachea are important

1. air pressure: when the tool is running, the air pressure must be kept at 90Psi
2. intake air pipe: the air supply pipe shall be larger than the tool air inlet; for example, the tool air inlet shall be as follows PT 1/4 "the trachea should select" 3/8 "in the inner diameter of the trachea

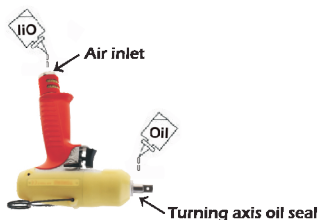


OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT INSPECTION AND MAINTENANCE

Placing tool in service :

1. Please install line with R.F.L unit (R-REGULATOR, F-Filter, L-Lubricator)
2. Air hose must be 3/8 "inside diameter, so as not to use the expansion pipe as far as possible, in order to avoid affecting the intake pressure.
3. Please check the air pressure before using. The air pressure should be 90psi in dynamic .
4. Ensure the air supply is clean and does not exceed 90psi during operation.Tool high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury .
5. Please check compressed air system everyday and keep it clean and dry .
6. Use proper connector, coupling, threaded connections and accessories .

Using tool in service :



Lubricate tool

1. Please lubricate tool daily to avoid wearing and rustiness, Running tool for 2-3 seconds after lubrication .
2. Always wear eye and ears protection when operating the tool .
3. The bearing needs to be lubricated with LDS18 every 3 months .



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT FLUID CHANGE

In order to avoid the costs of malfunction or maintenance increase routine inspections are necessary .

When tighten fasteners used in different ways can cause the time of change oil difference so we recommend that user should assess the self-condition to adjust the time of change oil .

For example: Tighten hard joint fasteners about spending 0.5~1 second (pulse) tighten soft joint fasteners exceeds more than 2 second (pulse) the time of change oil will be different .

Pulse number : It means when the screws are exposed to tighten the object surface, the number of strokes that driven by hydraulic cylinder .

When tool spends less time to tighten the object ; quickly achieve the required torque, the time of change oil (number) will be extended .

When tool spends more time to tighten the object ; to reach the required torque, the time of change oil (number) will be increased .

when tool is used for high torque (less number of pulses) the time of change oil will be extended .

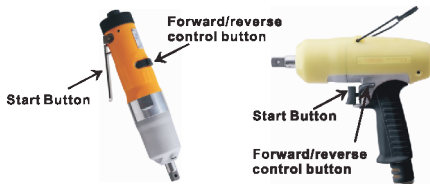
when tool is used for low torque (more number of pulses) the time of change oil will be increased .

OPERATION AND MAINTENANCE

1. Please follow the instruction for assembly or disassembly this tool
2. Please do not make any adjustment during operation, Please disconnect the air hose from air supply
3. The use of other than genuine replacement parts may cause the damage of the tools
4. When the switch of the open gear wrench is pressed 1/2, the sleeve gear is turned back, and the tool is tightened when all the tools are pressed down

OPERATION AND MAINTENANCE

1. Please follow the instruction for assembly or disassembly this tool
2. Please do not make any adjustment during operation, Please disconnect the air hose form air supply
3. The use of other than genuine replacement parts may cause the damage of the tools
4. Tool (except the open gear wrench) is the two stage switch. When the switch is pressed 1/3, the speed is slow, and when it is pressed to the end, it is high speed. Please pay attention to the direction of positive and negative rotation
5. When the switch of the open gear wrench is pressed 1/2, the sleeve gear is turned back, and the tool is tightened when all the tools are pressed down



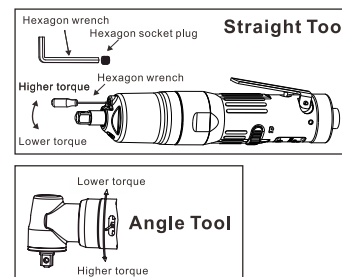
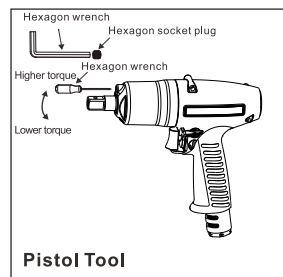
Straight Tool

Pistol Tool

TORQUE ADJUSTMENT

Torque value can be adjusted according to torque and screw tightness. Please adjust torque according to the following steps

1. adjust torque, first on the torque tester 3-5 times before starting to adjust torque
2. remove the torque adjustment cover
3. use six angle wrench, rotate torque screw, clockwise direction torque is big, reverse clock direction torque is smaller (adjust the range 3-4 laps). Do not turn the grease screws



NOTICE PLEASE USE TORQUE TESTER FOR CALIBRATION AFTER TORQUE ADJUSTMENT



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT

NOISE AND VIBRATION

Noise: According to EN ISO 15744
Vibration: According to EN ISO 28927-2

Model	Bolt size		Drive		Torque Range (5-6 Bar)		Free Speed r/min	NET WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET in.
	mm	in	in		Nm	ft lb		lb	kg	in.	mm	cfm	l/min	
EP5PTX12 HR10	M5	3/8	4-12		3.0 - 8.9		4,000	2.02	0.92	6.3	160	7.0	200	1/4
EP5PTX16 HR10	M5-M6	3/8	7-16		5.2 - 11.8		4,500	2.02	0.92	6.3	160	8.8	250	1/4
EP6PTX32 HR10	M8	3/8	16-32		11.8 - 23.6		6,000	2.09	0.95	6.7	170	12.3	350	1/4
EP7PTX50 HR10	M8-M10	3/8	30-50		22.1 - 38.88		6,000	2.31	1.05	7.2	183	14.1	400	1/4
EP8PTX65 HR10	M8-M10	3/8	40-65		29.5 - 47.9		5,800	2.75	1.25	7.4	187	16.9	480	1/4
EP8PTX65 HR13	M10	1/2	40-65		29.5 - 47.9		5,800	2.75	1.25	7.5	192	16.9	480	1/4
EP8PTX85 HR13	M10-M12	1/2	42-85		31.0 - 62.7		5,000	3.19	1.45	7.5	192	18.7	530	1/4
EP9PTX130 HR13	M12	1/2	75-130		55.3 - 95.9		4,500	3.74	1.7	7.8	198	19.4	550	1/4
EP10PTX150 HR13	M12-M14	1/2	110-150		81.1 - 110.6		4,500	5.07	2.3	8.5	215	24.7	700	1/4
EP12PTX210 HR20	M14-M16	3/4	130-210		95.9 - 154.9		3,900	6.39	2.9	9.6	243	24.7	700	1/4
EP14PTX260 HR20	M16-M18	3/4	165-260		121.7 - 191.8		3,000	8.15	3.7	10.3	262	24.7	700	3/8
EP18PTX450 HR20	M16-M20	3/4	250-450		184.4 - 331.9		3,600	9.25	4.2	8.7	221	49.4	1,400	3/8



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	mm	in	in		Nm	ft lb		lb	kg	in.	mm	cfm	l/min	
EP5PTX12 HR42	M5	1/4	4-12		3.0 - 8.9		4,000	2.0	0.92	6.3	161	7.0	200	1/4
EP5PTX16 HR42	M5-M6	1/4	7-16		5.2 - 11.8		4,500	2.0	0.92	6.3	161	8.8	250	1/4
EP6PTX30 HR42	M6-M8	1/4	14-30		10.3 - 22.1		6,000	2.1	0.95	6.7	171	12.3	350	1/4
EP6PTX35 HR42	M8	1/4	22-35		16.2 - 25.8		6,000	2.3	1.05	7.2	183	14.1	400	1/4
EP7PTX45 HR42	M8-M10	1/4	32-45		23.6 - 33.2		5,800	2.8	1.28	7.5	191	17.0	480	1/4



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Vibration: According to EN ISO 28927-2

Model	Bolt size		Drive	Torque Range (5-6 Bar)		Free Speed	NET WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET
	mm	in		Nm	ft lb		lb	kg	in.	mm	cfm	l/min	
EP5PTX15 AR10	M5 - M6	3/8	6 - 15	4.4 - 11.1	4,700	2.8	1.3	10.1	256	8.8	250	1/4	
EP5PTX25 AR10	M6 - M8	3/8	13 - 25	9.6 - 18.4	5,800	3.0	1.4	10.6	270	10.6	300	1/4	
EP6PTX45 AR10	M8 - M10	3/8	27 - 45	19.9 - 33.2	4,200	3.6	1.6	11.4	289	12.4	350	1/4	
EP7PTX50 AR13	M10	1/2	29 - 50	19.2 - 36.9	4,000	4.0	1.8	11.4	290	12.4	350	1/4	
EP8PTX62 AR13	M10	1/2	35 - 62	25.8 - 45.7	4,400	4.4	2.00	11.6	295	12.4	350	1/4	
EP5PTX18 AR42	M5 - M6	1/4	13 - 18	9.6 - 13.3	4,700	2.9	1.3	10.2	259	8.8	250	1/4	
EP5PTX25 AR42	M8	1/4	18 - 25	13.3 - 18.4	5,300	3.1	1.4	11.1	281	12.4	350	1/4	



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Model	Bolt size		Drive	Torque Range (5-6 Bar)		Free Speed	NET WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET
	mm	in		Nm	ft lb		lb	kg	in.	mm	cfm	l/min	
EP5PTX12 SR10	M5	3/8	4 - 12	3.0 - 8.9	5,000	1.83	0.83	8.6	218	7.0	200	1/4	
EP5PTX16 SR10	M5 - M6	3/8	7 - 16	5.2 - 11.8	6,000	1.83	0.83	8.6	218	8.8	250	1/4	
EP6PTX35 SR10	M8	3/8	16 - 35	11.8 - 25.8	6,200	1.92	0.87	9.0	228	10.6	300	1/4	
EP7PTX48 SR10	M8 - M10	3/8	30 - 48	22.1 - 35.4	5,800	2.10	0.95	9.4	240	12.4	350	1/4	
EP8PTX60 SR10	M8 - M10	3/8	35 - 60	25.8 - 44.3	6,500	2.65	1.20	9.7	246	16.9	480	1/4	
EP8PTX60 SR13	M10	1/2	35 - 60	25.8 - 44.3	6,500	2.75	1.25	9.9	251	16.9	480	1/4	
EP5PTX12 SR42	M5	1/4	4 - 12	3.0 - 8.9	5,000	1.83	0.83	8.7	220	7.0	200	1/4	
EP5PTX16 SR42	M5 - M6	1/4	7 - 16	5.2 - 11.8	6,000	1.83	0.83	8.7	220	8.8	250	1/4	
EP6PTX32 SR42	M6 - M8	1/4	16 - 32	11.8 - 23.6	6,200	1.92	0.87	9.0	230	10.6	300	1/4	
EP6PTX35 SR42	M8	1/4	22 - 35	16.2 - 25.8	5,800	2.10	0.95	9.5	240	14.1	400	1/4	
EP7PTX43 SR42	M8 - M10	1/4	28 - 43	20.6 - 31.7	6,500	1.92	0.87	9.0	230	14.1	480	1/4	