



# FL Series

- Low Weight
- Improved Durability
- Environmentally Friendly Design

## Oil Pulse Wrenches



FUJI AIR TOOLS CO., LTD.

# Oil Pulse Wrenches



## FEATURES

### **1** Accumulator Mechanism

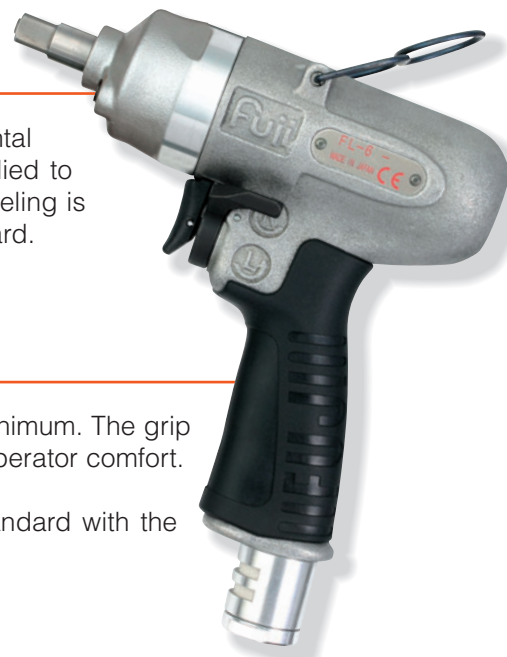
The Accumulator functions to compensate against the sudden rise of oil pressure when tightening a hard joint. Torque scatter and error is minimised. As the oil temperature increases during consecutive tightening, the accumulator takes in the expanded volume of oil to maintain a consistent oil volume in the pulse unit. This ensures high tightening torque accuracy.

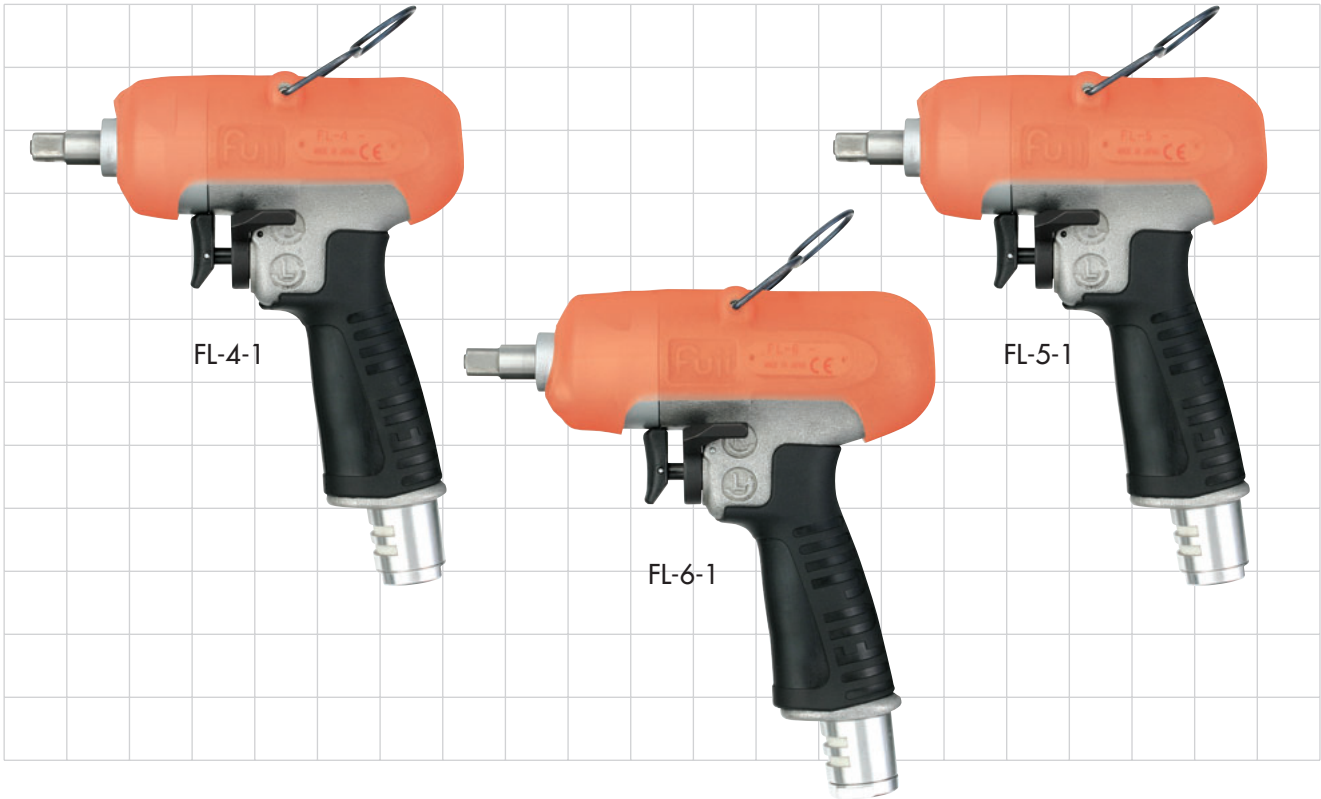
### **2** Environmentally Friendly Design

To reduce effects on the environment and environmental energy during the life cycle of the tool, no paint is applied to the body of the tool. Consequently, the effect of paint peeling is eliminated. The full cover protector is designed as standard.

### **3** Ergonomic Design

Compared with conventional tools, weight is kept to a minimum. The grip handle size is optimised to provide enhanced levels of operator comfort. This special grip also absorbs vibration more effectively. Furthermore, reduced noise and vibration levels are standard with the FL series due to the optimised dimensions.





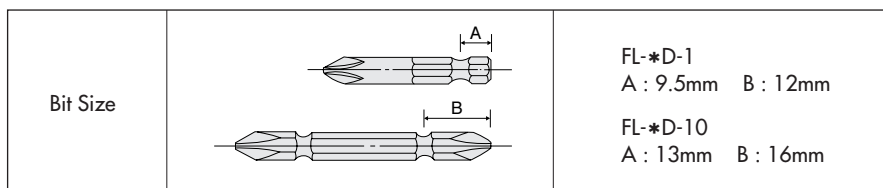
## FL Series

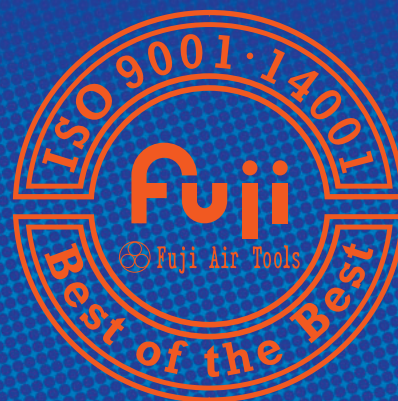
### Square Drive Type

Model	Capacity (Bolt Size)	Recommended Torque Range				Rotational Frequency (At no Load)	Square Drive Size	Overall Length			Mass		Air Consumption (At Load)		Distance Center To Side	Air Inlet Thread	Air Hose Size			
		0.63MPa						mm	mm	in	kg	lb	0.63MPa				mm	PT or NPT	mm	in
		mm	N.m	kgf.m	ft.lb								min <sup>-1</sup>	m <sup>3</sup> /min						
FL-4-1	M6	16~24	1.6~2.4	11.8~17.7	6700	9.5	139.5	5 31/64	0.79	1.7	0.36	12.7	22	1/4	6.3	1/4				
FL-5-1	M6~M8	20~40	2.0~4.0	14.7~29.5	6300	9.5	139.5	5 31/64	0.79	1.7	0.40	14.1	22	1/4	6.3	1/4				
FL-6-1	M8	28~56	2.8~5.7	20.6~41.3	6700	9.5	151.5	5 31/32	0.83	1.8	0.42	14.8	22	1/4	9.5	3/8				
FL-7-1	M8~M10	34~60	3.4~6.1	25.0~44.2	6100	9.5	155	6 7/64	1.02	2.2	0.60	21.1	24	1/4	9.5	3/8				
FL-9-1	M10	52~96	5.3~9.7	38.3~70.8	5000	12.7	173	6 13/16	1.45	3.2	0.65	22.9	27	1/4	9.5	3/8				
FL-11-1	M10~M12	80~136	8.1~13.8	59.0~100.3	5000	12.7	184	7 15/64	1.80	4.0	0.80	28.2	29.5	1/4	9.5	3/8				
FL-13-1	M12~M14	120~172	12.2~17.5	88.5~126.8	3800	12.7	192	7 9/16	2.10	4.6	0.85	30.0	32	1/4	9.5	3/8				

### Bit Shank Type

Model	Capacity (Bolt Size)	Recommended Torque Range				Rotational Frequency (At no Load)	Bit Shank Size	Overall Length			Mass		Air Consumption (At Load)		Distance Center To Side	Air Inlet Thread	Air Hose Size			
		0.63MPa						mm	mm	in	kg	lb	0.63MPa				mm	PT or NPT	mm	in
		mm	N.m	kgf.m	ft.lb								min <sup>-1</sup>	m <sup>3</sup> /min						
FL-4D-1	M6	14~20	1.4~2.0	10.3~14.7	6700	6.35	140	5 3/64	0.79	1.7	0.36	12.7	22	1/4	6.3	1/4				
FL-4D-10	M6	14~20	1.4~2.0	10.3~14.7	6700	6.35	140	5 3/64	0.79	1.7	0.36	12.7	22	1/4	6.3	1/4				
FL-5D-1	M6~M8	18~32	1.8~3.2	13.2~23.6	6300	6.35	140	5 3/64	0.79	1.7	0.40	14.1	22	1/4	6.3	1/4				
FL-5D-10	M6~M8	18~32	1.8~3.2	13.2~23.6	6300	6.35	140	5 3/64	0.79	1.7	0.40	14.1	22	1/4	6.3	1/4				
FL-6D-1	M8	25~42	2.5~4.2	18.4~30.9	6700	6.35	152	5 63/64	0.83	1.8	0.42	14.8	22	1/4	9.5	3/8				
FL-6D-10	M8	25~42	2.5~4.2	18.4~30.9	6700	6.35	152	5 63/64	0.83	1.8	0.42	14.8	22	1/4	9.5	3/8				





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## **FUJI AIR TOOLS CO., LTD.**

**Distributed by:**

2-1-14, Kamiji, Higashinari-ku, Osaka, 537-0003 Japan

Tel. :81-6-6972-2335 (Overseas Dept)

81-6-6972-2331 (Main)

Fax :81-6-6972-2250