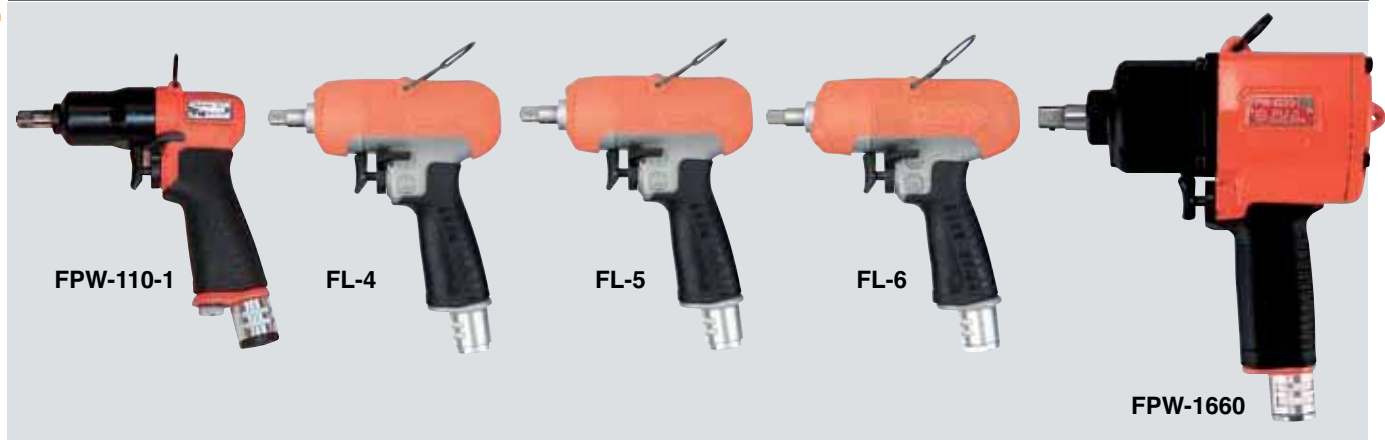


Pulse Wrenches

Featured with dual chamber air motor, FPW and FL series pulse wrenches are designed to generate higher torque and yet reducing vibration, torque reaction and noise levels. Combined with 2-blade impulsing mechanism, 9-blade dual chamber motor creates about 50% higher power-to-weight ratio than our former series of the same physical size. The reduction of vibration and torque reaction helps reduce operator fatigue and other problems associated with repeated vibration or impact motion.

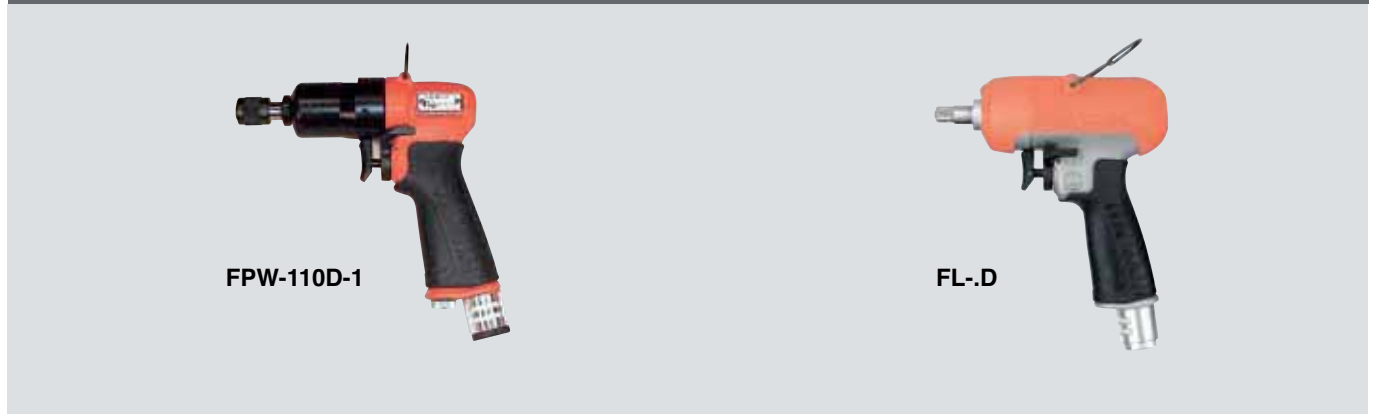
SQUARE DRIVE TYPE



Model	Bolt Size	Recommended Torque Range			Free Speed	Square Drive Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N · m	kgf · m		ft · lb	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm
Pistol Grip Models															
FPW-110-1	M4~M5	7.5~13 (2~7.5)	0.8~1.3 (0.2~0.8)	5.5~9.6 (1.4~5.5)	4,500	9.5	3/8	143	5 41/64	0.75	1.7	0.20	7.1	6.3	1/4
FL-4-1	M6	16~24	1.6~2.4	11.8~17.7	6,700	9.5	3/8	139.5	5 31/64	0.79	1.7	0.36	12.7	6.3	1/4
FL-5-1	M6~M8	20~40	2.0~4.0	14.7~29.5	6,300	9.5	3/8	139.5	5 31/64	0.79	1.7	0.40	14.1	6.3	1/4
FL-6-1	M8	28~56	2.8~5.6	20.6~41.3	6,700	9.5	3/8	151.5	5 31/32	0.83	1.8	0.42	14.8	9.5	3/8
FL-7-1	M8~M10	34~60	3.4~6.1	25.0~44.2	6,100	9.5	3/8	155	6 7/64	1.02	2.2	0.60	21.1	9.5	3/8
FL-9-1	M10	52~96	5.3~9.7	38.3~70.8	5,000	12.7	1/2	173	6 13/16	1.45	3.2	0.65	22.9	9.5	3/8
FL-11-1	M10~M12	80~136	8.1~13.8	59.0~100.3	5,000	12.7	1/2	184	7 15/64	1.80	4.0	0.80	28.2	9.5	3/8
FL-13-1	M12~M14	120~172	12.2~17.5	88.5~126.8	3,800	12.7	1/2	192	7 9/16	2.10	4.6	0.85	30.0	9.5	3/8
FPW-1660-1	M16~M18	160~270	16.3~27.5	118~199.1	3,000	19.0	3/4	243	9 37/64	3.80	8.4	1.20	42.4	9.5	3/8

*Air Inlet Thread Size: BSP or NPT 1/4", (FPW-1660)PT or NPT 3/8".
 *Figures in () can be obtained at the position of "L" mark on the regulator knob, but for another, at "H" mark.

BIT SHANK TYPE



Model	Bolt Size	Recommended Torque Range			Free Speed	Bit Shank Size		Overall Length (without socket)		Weight (without socket)		Air Consumption (at Load)		Air Hose Size	
		mm	N · m	kgf · m		ft · lb	mm	in	mm	in	kg	lb	m ³ /min	ft ³ /min	mm
Pistol Grip Models															
FPW-110D-1	M4~M5	7~11 (2~7)	0.7~1.1 (0.2~0.7)	5.2~8.1 (1.4~5.1)	4,500	6.35	1/4	149	5 7/8	0.76	1.7	0.20	7.1	6.3	1/4
FPW-110D-10	M4~M5	7~11	0.7~1.1	5.2~8.1	4,500	6.35	1/4	149	5 7/8	0.76	1.7	0.20	7.1	6.3	1/4
FL-4D-1	M6	14~20	1.4~2.0	10.3~14.7	6,700	6.35	1/4	140	5 3/64	0.79	1.7	0.36	12.7	6.3	1/4
FL-4D-10	M6	14~20	1.4~2.0	10.3~14.7	6,700	6.35	1/4	140	5 3/64	0.79	1.7	0.36	12.7	6.3	1/4
FL-5D-1	M6~M8	18~32	1.8~3.2	13.2~23.6	6,300	6.35	1/4	140	5 3/64	0.79	1.7	0.40	14.1	6.3	1/4
FL-5D-10	M6~M8	18~32	1.8~3.2	13.2~23.6	6,300	6.35	1/4	140	5 3/64	0.79	1.7	0.40	14.1	6.3	1/4
FL-6D-1	M8	25~42	2.5~4.2	18.4~30.9	6,700	6.35	1/4	152	5 63/64	0.83	1.8	0.42	14.8	6.3	1/4
FL-6D-10	M8	25~42	2.5~4.2	18.4~30.9	6,700	6.35	1/4	152	5 63/64	0.83	1.8	0.42	14.8	6.3	1/4

*Air Inlet Thread Size: BSP or NPT 1/4".
 *Figures in () can be obtained at the position of "L" mark on the regulator knob, but for another, at "H" mark.