

AIR MOTORS

Fuji Air Motors are compact and light weight, yet sturdy and offer high power-to-weight ratios. Fuji offers a wide range of air motors from small 0.1 kW hand-held motor to large 20 kW stationary motor which are found at versatile industries like ships, chemical plants, mines and power plants etc. As air motors are less likely to generate sparks (unlike brushes in electric motors), they are better suited for use in hazardous environments. Please refer to your Fuji sales representative to get detailed air motor specifications and air diagram information.

REVERSIBLE TYPE



GLOBAL SPECIFICATIONS

Model	Stall Torque		Power		Free Speed	Overall Length		Weight		Air Consumption		Air Hose Size	
	N.m	ft.lb	W	PS	min ⁻¹	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-5SM-8.5R	5.4	4	120	0.16	850	147	5.79	0.6	1.3	0.3	9.9	8	5/16
F-5SM-2R	21.6	15.9	100	0.13	190	182	7.16	0.8	1.8	0.3	12	6.3	1/4
F-6SM-12R	5.9	4.4	230	0.31	1000	157	6.18	0.8	1.8	0.3	12	8	5/16
F-6SM-21R	4	2.9	260	0.35	2000	146	5.75	0.9	2	0.3	12	8	5/16
F-6SM-28R	3.3	2.4	250	0.34	2300	146	5.75	0.8	1.8	0.5	17.7	8	5/16
F-6SM-8R	9.8	7.2	230	0.31	750	179	7.05	1	2.2	0.5	17.7	8	5/16
F-6SM-2.5R	26	19.2	210	0.28	250	192	7.56	1.2	2.6	0.3	12	8	5/16
F-6SM-5R	14.7	10.8	230	0.31	500	179	7.05	1	2.2	0.3	12	8	5/16
F-8SM-8.5R	14.7	10.8	370	0.5	850	222	8.74	1.5	3.3	0.3	17.7	9.5	3/8
F-8SM-12R	9.8	7.2	370	0.5	1100	199	7.83	2.2	4.8	0.5	17.7	9.5	3/8
F-8SM-28R	6.4	4.7	380	0.51	2300	183	7.2	1.5	3.3	0.5	17.7	9.5	3/8

TOOL SELECTION GUIDE

Standard models

Model	Type of spindle		
	Chord Type	Key type	Thread type (TH)
F-5SM-2R	541 205 2125		
F-5SM-8.5R	541 205 2130		
F-6SM-2.5R	541 205 2158		
F-6SM-5R	541 205 2173		
F-6SM-8R	541 205 2178		
F-6SM-12R	541 205 2153		
F-6SM-21R	541 205 2163		
F-6SM-28R	541 205 2168		
F-8SM-12R		541 205 2218	
F-8SM-28R		541 205 2220	
F-8SM-8.5R		541 205 2222	541 205 9075

CE certified models

Model	Type of spindle	
	Chord Type	Key type
F-5SM-2R	541 207 1036	
F-6SM-2.5R	541 207 1051	
F-6SM-5R	541 207 1056	
F-6SM-12R	541 207 1049	
F-6SM-21R	541 207 1052	
F-6SM-28R	541 207 1054	
F-8SM-8.5R		541 207 1063

For CE region availability of non CE models, please inquire to your Fuji representative.

NPT models

Model	Type of spindle	
	Chord Type	Key type
F-5SM-8.5R	541 205 2131	
F-6SM-2.5R	541 205 2159	
F-6SM-28R	541 205 2169	
F-6SM-8R	541 205 2179	
F-8SM-12R		541 205 2219

For possibility of NPT inlet for other models, please inquire to your Fuji representative.

NON-REVERSIBLE TYPE



GLOBAL SPECIFICATIONS

Model	Stall Torque		Power		Free Speed	Overall Length		Spindle Thread Size	Weight		Air Consumption		Air Hose Size	
	N.m	ft.lb	W	PS	min ⁻¹	mm	in	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-10MT	78.5	57.9	370	0.5	180	270	10.63	1/2-20UNF	3.4	7.5	0.6	22.3	9.5	3/8
F-6SE E	15.7	11.6	260	0.35	600	210	8.27	3/8-24UNF	1	2.2	0.4	14.8	9.5	3/8
F-6SF E	28.4	21	260	0.35	300	225	8.86	3/8-24UNF	1.1	2.4	0.4	15.2	9.5	3/8

Air Inlet Thread Size: PT 1/4"

*For application examples, please refer to the stirring propellers

Standard models

Model	Part Number
F-10MT	541 205 2051
F-6SE E	541 205 2147
F-6SF E	541 205 2149

NON-REVERSIBLE TYPE



F-5SM-8.5



F-6SM-2.5~28



F-5SM-2



F-8SMA-8.5~28

GLOBAL SPECIFICATIONS

Model	Stall Torque		Power		Free Speed	Overall Length		Weight		Air Consumption		Air Hose Size	
	N.m	ft.lb	W	PS	min ⁻¹	mm	in	kg	lb	m ³ /min	ft ³ /min	mm	in
F-5SM-2	23.5	17.4	120	0.16	200	187	7.36	0.9	2	0.3	9.9	6.3	1/4
F-5SM-8.5	5.9	4.4	130	0.17	950	153	6.02	0.6	1.3	0.3	9.9	6.3	1/4
F-6SM-12	7.4	5.5	290	0.39	1300	181	7.125	0.9	2	0.3	12	9.5	3/8
F-6SM-2.5	28.4	21	260	0.35	300	213	8.39	1.2	2.6	0.3	12	9.5	3/8
F-6SM-21	4.4	3.2	290	0.39	2400	167	6.57	0.8	1.8	0.3	12	9.5	3/8
F-6SM-28	3.9	2.9	290	0.39	2800	167	6.57	0.7	1.5	0.5	17.7	9.5	3/8
F-6SM-5	15.7	11.6	250	0.34	600	200	7.87	1	2.2	0.3	12	9.5	3/8
F-6SM-8	10.8	8	260	0.35	900	200	7.87	1	2.2	0.5	17.7	9.5	3/8
F-8SMA-12	11.8	8.7	440	0.59	1300	200	7.87	2	4.4	0.3	12	9.5	3/8
F-8SMA-28	5.9	4.4	440	0.59	2600	171	6.73	1.5	3.3	0.5	17.7	9.5	3/8
F-8SMA-8.5	16.7	12.3	440	0.59	900	208	8.19	2.2	4.8	0.5	17.7	9.5	3/8

TOOL SELECTION GUIDE

Standard models

Model	Type of Spindle		
	Chord Type	Key Type	Thread Type (TH)
F-5SM-2	541 205 2122		
F-5SM-8.5	541 205 2127		
F-6SM-2.5	541 205 2155		
F-6SM-5	541 205 2170		
F-6SM-8	541 205 2175		
F-6SM-12	541 205 2150		541 205 2152
F-6SM-21	541 205 2160		
F-6SM-28	541 205 2165		
F-8SMA-8.5		541 205 2230	541 205 2232
F-8SMA-12		541 205 2224	541 205 2226
F-8SMA-28		541 205 2227	541 205 2229

CE certified models

Model	Type of Spindle	
	Chord Type	Key Type
F-5SM-8.5	541 207 1037	
F-6SM-2.5	541 207 1050	
F-8SMA-28		541 207 1065

For CE region availability of non CE models, please inquire to your Fuji representative.

Type of Spindle

Chord Type		Key Type		Thread Type		
Model	Model	Model	Model	Spindle Thread Size	Applicable Drill Chuck	
F-5SM series F-6SM series	F-8SMA series F-8SM series	F-6SM-5, 8, 12, 21 F-8SMA-12, 28 F-6SE, 6SF, 6PFX F-8SMA-8.5 F-10MT		3/8-24(UNF) 1/2-20(UNF)	DCK-6.5 DCK-8 DCK-10 DCK-13	

*Drill chucks are applicable to thread type spindle models.

Hose Connection

NON-REVERSIBLE TYPE



REVERSIBLE TYPE

