



Minimum tube length

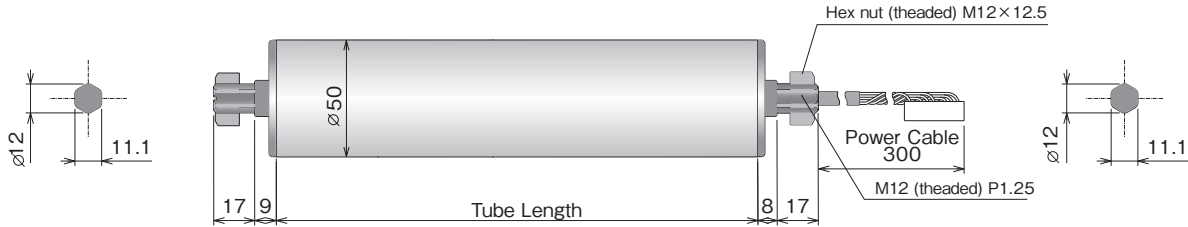


Spring loaded shaft

MDR Brushless DC Motor High torque type PM500FP Roller diameter $\varnothing 50$

Roller diameter $\varnothing 50$ PM500FP

- Roller diameter / $\varnothing 50$
- Thickness / t1.4
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing



Tube Length : PM500FP

	370mm	≥ 370 mm					
Tube Length (mm)	400	500	600	700	800	900	1000
Weight (kg)	2.3	2.5	2.6	2.7	2.8	3.0	3.1
Spring loaded shaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

■ Conveyor frame inside dimension and frame hole shape vary by the manufacturer.

Product Designation :

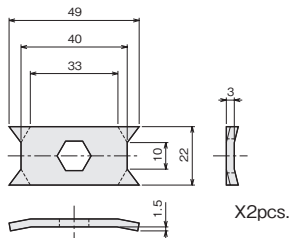
PM500FP - 15 - 400 - D - 024 - BR

Power Moller model Nominal Speed Tube Length Voltage Options

- Motor type : FP
 Nominal Speed : 15,55,255
 Tube Length : Specify in mm.
 Voltage : D-024 (24VDC)
 Options : Each of the following optional specification may be selected.

Mounting Bracket :

No.P-0B1



Options : PM500FP

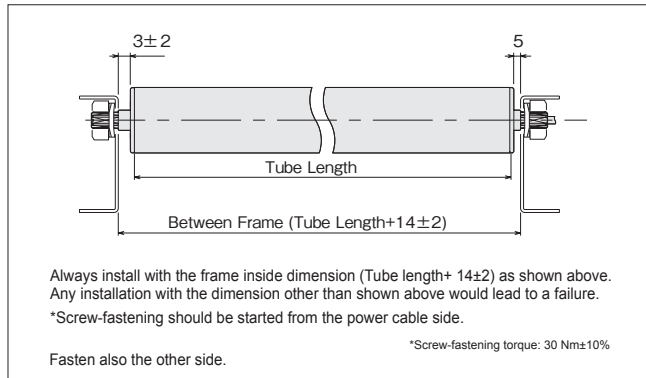
Rubber Laggings - NR, UR, NB, CR
 Natural rubber, Urethane, NBR, Neoprene

BR **Built-In Brake - BR** ^{*1}
 440mm ≥ 440 mm


VP **V-Belt Pulley**
 370mm ≥ 370 mm

P2 **Double Grooved Tube** ^{*2}
 370mm ≥ 370 mm

^{*1} When holding type built-in brake is required, specify along with a driver card compatible with such brake specification.
 [Electric brake (without holding function) is equipped as a standard specification.]
^{*2} Up to 800mm can be produced.



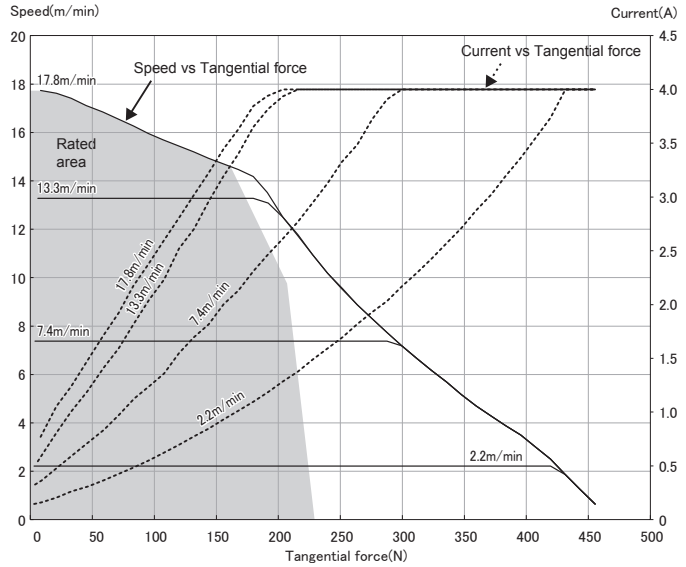
MDR Brushless DC Motor High torque type PM500FP Roller diameter \varnothing 50

 [MDR Selection Tool] is available on our web page.

Operating characteristics with CB-016 driver card

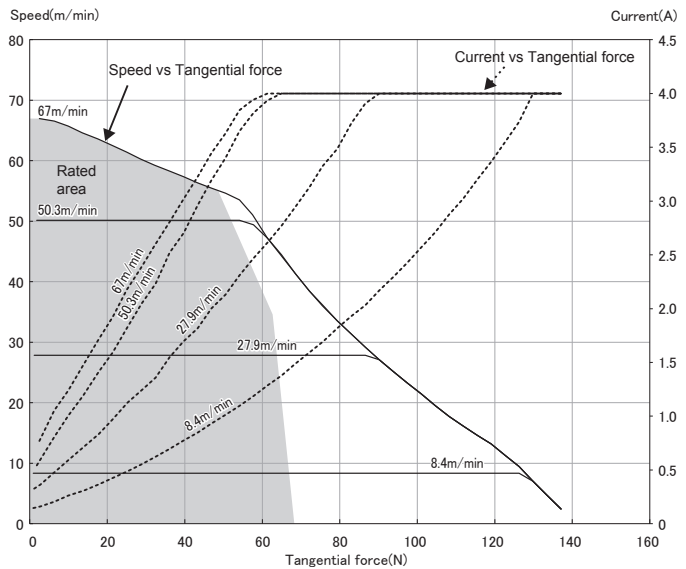
PM500FP-15

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
	No-load	Rated	No-load	Starting			SW1#5	SW5	
17.8	168		0.9		59	88	9	9.6~9.9	452
16.3	168		0.8		59	87	8	9.1~9.4	
15.5	168		0.8		59	87	7	8.6~8.9	
14.8	168		0.8		59	87	6	8.1~8.4	
14.1	171		0.7		58	85	5	7.6~7.9	
13.3	181		0.7		58	85	4	7.1~7.4	
11.8	194		0.6		55	84	3	6.6~6.9	
11.1	200		0.6		55	83	2	6.1~6.4	
10.4	207		0.6		52	81	1	5.6~5.9	
9.6	213		0.5		51	81	0	5.1~5.4	
8.9	216		0.5		47	77	9	4.6~4.9	4.0
8.1	216		0.5		43	72	8	4.1~4.4	
7.4	216		0.5		39	67	7	3.6~3.9	
6.7	220		0.4		35	62	6	3.1~3.4	
5.9	220		0.4		31	57	5	2.6~2.9	
5.2	220		0.4		27	52	4	2.1~2.4	
4.4	220		0.3		23	48	3	1.6~1.9	
3.7	223		0.3		20	42	2	1.1~1.4	
3.0	223		0.3		16	38	1	0.6~0.9	
2.2	223		0.2		12	33	0	0.1~0.4	



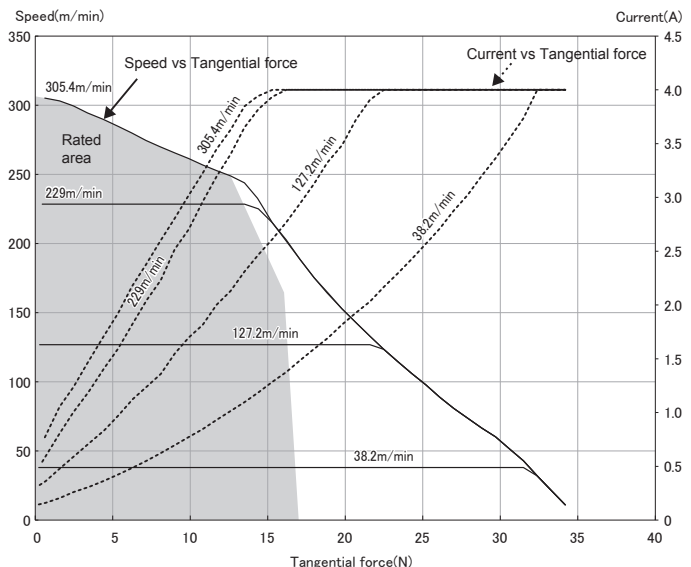
PM500FP-55

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
	No-load	Rated	No-load	Starting			SW1#5	SW5	
67.0	51		0.9		59	88	9	9.6~9.9	136
61.4	51		0.8		59	87	8	9.1~9.4	
58.6	51		0.8		59	87	7	8.6~8.9	
55.9	51		0.8		59	87	6	8.1~8.4	
53.1	52		0.7		58	85	5	7.6~7.9	
50.3	54		0.7		58	85	4	7.1~7.4	
44.7	58		0.6		55	84	3	6.6~6.9	
41.9	60		0.6		55	83	2	6.1~6.4	
39.1	62		0.6		52	81	1	5.6~5.9	
36.3	64		0.5		51	81	0	5.1~5.4	
33.5	65		0.5		47	77	9	4.6~4.9	4.0
30.7	65		0.5		43	72	8	4.1~4.4	
27.9	65		0.5		39	67	7	3.6~3.9	
25.1	66		0.4		35	62	6	3.1~3.4	
22.3	66		0.4		31	57	5	2.6~2.9	
19.5	66		0.4		27	52	4	2.1~2.4	
16.8	66		0.3		23	48	3	1.6~1.9	
14.0	67		0.3		20	42	2	1.1~1.4	
11.2	67		0.3		16	38	1	0.6~0.9	
8.4	67		0.2		12	33	0	0.1~0.4	




PM500FP-255

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
	No-load	Rated	No-load	Starting			SW1#5	SW5	
305.4	13		0.9		59	88	9	9.6~9.9	34
279.9	13		0.8		59	87	8	9.1~9.4	
267.2	13		0.8		59	87	7	8.6~8.9	
254.5	13		0.8		59	87	6	8.1~8.4	
241.8	13		0.7		58	85	5	7.6~7.9	
229.0	14		0.7		58	85	4	7.1~7.4	
203.6	15		0.6		55	84	3	6.6~6.9	
190.9	15		0.6		55	83	2	6.1~6.4	
178.2	16		0.6		52	81	1	5.6~5.9	
165.4	16		0.5		51	81	0	5.1~5.4	
152.7	16		0.5		47	77	9	4.6~4.9	4.0
139.9	16		0.5		43	72	8	4.1~4.4	
127.2	16		0.5		39	67	7	3.6~3.9	
114.5	16		0.4		35	62	6	3.1~3.4	
101.8	16		0.4		31	57	5	2.6~2.9	
89.0	16		0.4		27	52	4	2.1~2.4	
76.3	16		0.3		23	48	3	1.6~1.9	
63.6	17		0.3		20	42	2	1.1~1.4	
50.9	17		0.3		16	38	1	0.6~0.9	
38.2	17		0.2		12	33	0	0.1~0.4	



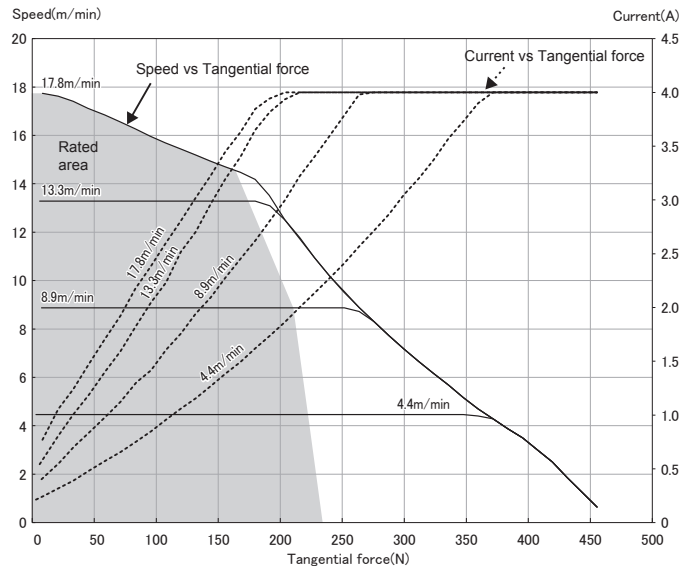
* The values in the characteristics list are when an ambient temperature is 25 degree C, and only for your reference and not the warranted values. The values represent the characteristics of a single standard motor roller (no linked operation) without including other specifications, and the values may change when including other specifications or with linked operation.

 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510 driver card

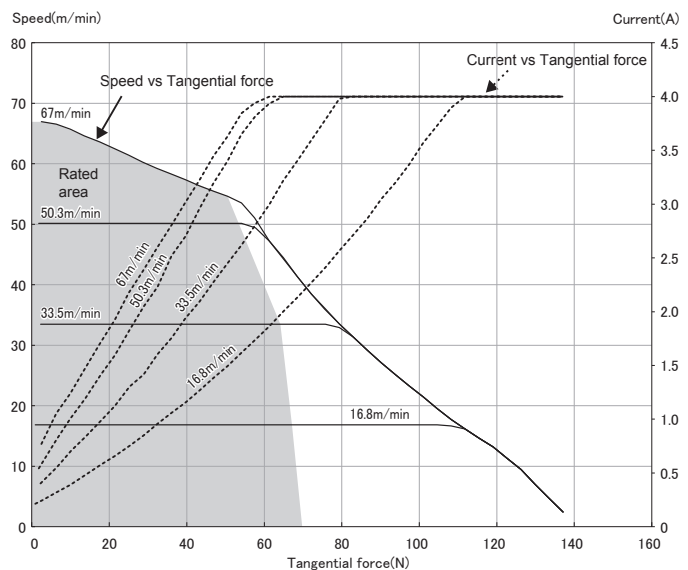
PM500FP-15

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
	No-load	Rated	No-load	Starting				
17.8	168		0.9		59	88	9	9.3~9.7
16.3	168		0.8		59	87	8	8.3~8.7
14.8	168		0.8		59	87	7	7.3~7.7
13.3	181		0.7		58	85	6	6.3~6.7
11.8	194		0.6		55	84	5	5.3~5.7
10.4	207		0.6		52	81	4	4.3~4.7
8.9	216		0.5		47	77	3	3.3~3.7
7.4	216		0.5		39	67	2	2.3~2.7
5.9	220		0.4		31	57	1	1.3~1.7
4.4	220		0.3		23	48	0	0.3~0.7



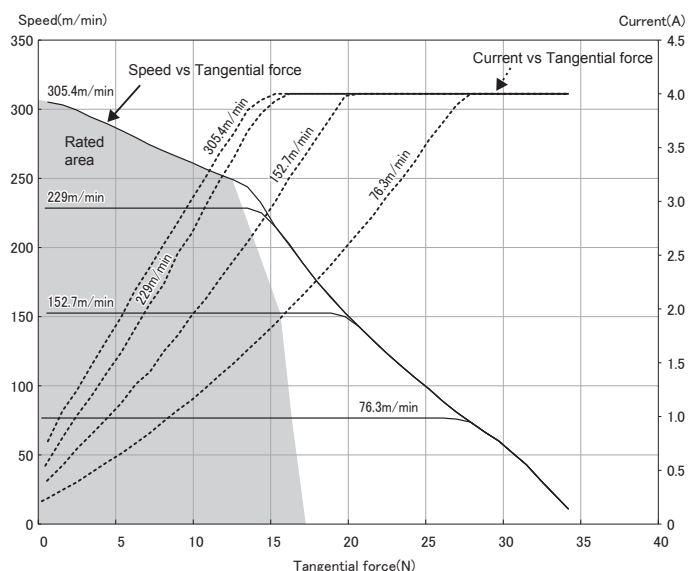
PM500FP-55

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
	No-load	Rated	No-load	Starting				
67.0	51		0.9		59	88	9	9.3~9.7
61.4	51		0.8		59	87	8	8.3~8.7
55.9	51		0.8		59	87	7	7.3~7.7
50.3	54		0.7		58	85	6	6.3~6.7
44.7	58		0.6		55	84	5	5.3~5.7
39.1	62		0.6		52	81	4	4.3~4.7
33.5	65		0.5		47	77	3	3.3~3.7
27.9	65		0.5		39	67	2	2.3~2.7
22.3	66		0.4		31	57	1	1.3~1.7
16.8	66		0.3		23	48	0	0.3~0.7



PM500FP-255

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
	No-load	Rated	No-load	Starting				
305.4	13		0.9		59	88	9	9.3~9.7
279.9	13		0.8		59	87	8	8.3~8.7
254.5	13		0.8		59	87	7	7.3~7.7
229.0	14		0.7		58	85	6	6.3~6.7
203.6	15		0.6		55	84	5	5.3~5.7
178.2	16		0.6		52	81	4	4.3~4.7
152.7	16		0.5		47	77	3	3.3~3.7
127.2	16		0.5		39	67	2	2.3~2.7
101.8	16		0.4		31	57	1	1.3~1.7
76.3	16		0.3		23	48	0	0.3~0.7



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