



Minimum tube length



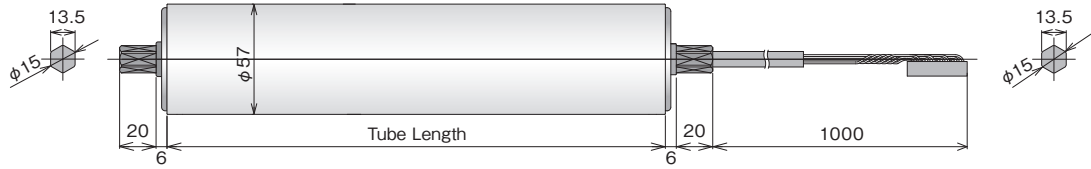
Spring loaded shaft

# MDR Brushless DC Motor for pallet transfer PM570KT

Roller diameter  $\varnothing 57$

## Roller diameter $\varnothing 57$ PM570KT

- Roller diameter /  $\varnothing 57$
- Thickness / t1.5
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing



### Tube Length : PM570KT

	360mm			$\geq 360$ mm						
Tube Length (mm)	400	500	600	700	800	900	1000	1100	1200	
Weight (kg)	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	
Spring loaded shaft	<input type="radio"/>	<input type="radio"/>	<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.
- For installation of MDR, frame inside dimension should be produced to (Tube length + 17mm).
- 3.2mm or less thickness frame is recommended to install the roller. Contact us for other frame thickness.

### Product Designation :

**PM570KT - 15 - 1000 - D - 024 - BR**

Power Moller model    Nominal Speed    Tube Length    Voltage    Options

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

### Options : PM570KT

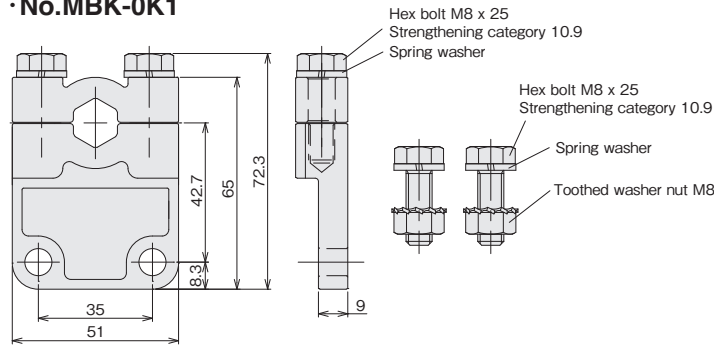
**BR Built-In Brake - BR** \*1

410mm      $\geq 410$ mm

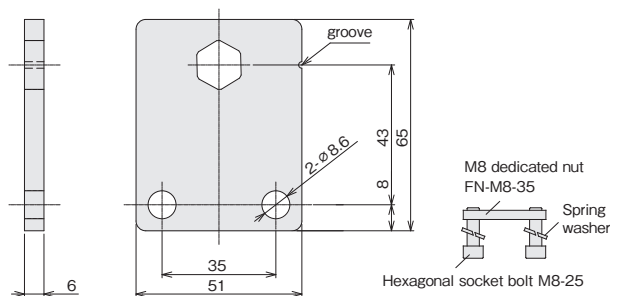
- \*1 When holding type built-in brake is required, specify along with a driver card compatible with such brake specification. [Electric brake (without holding function) is equipped as a standard specification.]
- Contact us for the manufacturability with other specifications.

### Mounting Bracket : 1pce of No.MBK-0K1 1pce of No.MBK-0K1-7


#### · No.MBK-0K1



#### · No.MBK-0K1-7



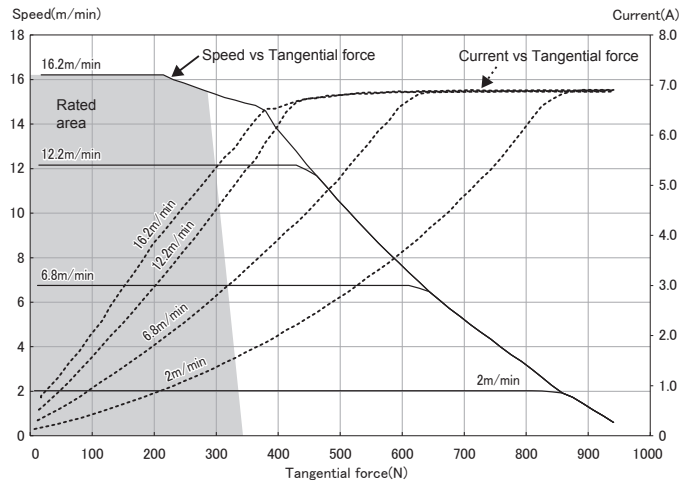
- No. MBK-0K1 bracket is mounted on cable side shaft and No. MBK-0K1-7 is mounted on spring loaded shaft.
- Apply 27.2Nm torque for securing Power Moller mounting shaft and No. MBK-0K1 bracket.

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

## Operating characteristics with CBK-109 driver card

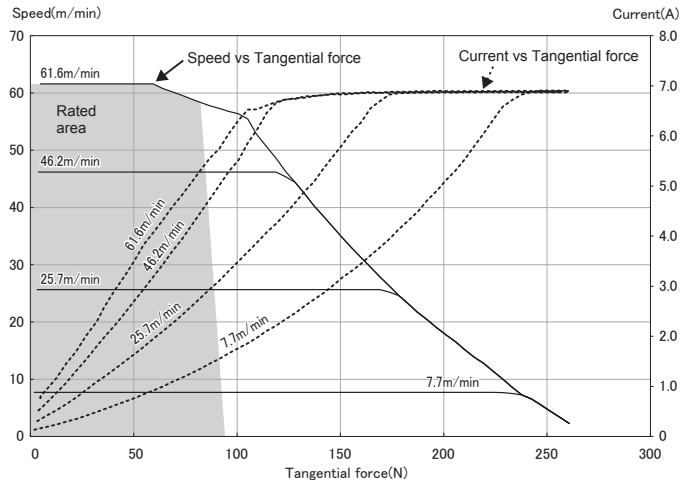
### PM570KT-15

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	RSW	External input voltage (V)
	No-load	Rated	No-load	Starting					
16.2	295		0.8		88	126	ON	9	9.6~9.9
14.9	295		0.8		86	124		8	9.1~9.4
14.2	295		0.8		82	120		7	8.6~8.9
13.5	299		0.7		78	115		6	8.1~8.4
12.8	299		0.7		74	111		5	7.6~7.9
12.2	304		0.7		70	106		4	7.1~7.4
10.8	308		0.6		63	96		3	6.6~6.9
10.1	308		0.6		59	92		2	6.1~6.4
9.5	313		0.5		55	86		1	5.6~5.9
8.8	313		0.5		51	82		0	5.1~5.4
8.1	317	939	0.5	7.0	50	80	OFF	9	4.6~4.9
7.4	317		0.4		45	75		8	4.1~4.4
6.8	317		0.4		41	70		7	3.6~3.9
6.1	322		0.4		37	65		6	3.1~3.4
5.4	322		0.4		33	60		5	2.6~2.9
4.7	322		0.4		30	59		4	2.1~2.4
4.1	326		0.3		26	53		3	1.6~1.9
3.4	326		0.3		21	45		2	1.1~1.4
2.7	330		0.3		17	40		1	0.6~0.9
2.0	335		0.3		12	35		0	0.1~0.4



### PM570KT-55

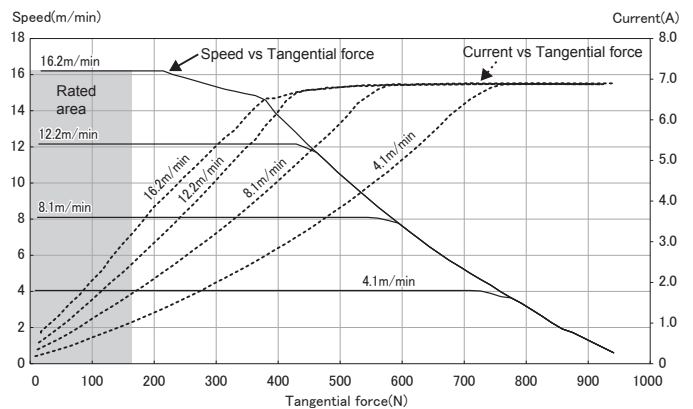
Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	RSW	External input voltage (V)
	No-load	Rated	No-load	Starting					
61.6	82		0.8		88	126	ON	9	9.6~9.9
56.5	82		0.8		86	124		8	9.1~9.4
53.9	82		0.8		82	120		7	8.6~8.9
51.4	83		0.7		78	115		6	8.1~8.4
48.8	83		0.7		74	111		5	7.6~7.9
46.2	84		0.7		70	106		4	7.1~7.4
41.1	85		0.6		63	96		3	6.6~6.9
38.5	85		0.6		59	92		2	6.1~6.4
36.0	87		0.5		55	86		1	5.6~5.9
33.4	87		0.5		51	82		0	5.1~5.4
30.8	88	260	0.5	7.0	50	80	OFF	9	4.6~4.9
28.2	88		0.4		45	75		8	4.1~4.4
25.7	88		0.4		41	70		7	3.6~3.9
23.1	89		0.4		37	65		6	3.1~3.4
20.5	89		0.4		33	60		5	2.6~2.9
18.0	89		0.4		30	59		4	2.1~2.4
15.4	90		0.3		26	53		3	1.6~1.9
12.8	90		0.3		21	45		2	1.1~1.4
10.3	92		0.3		17	40		1	0.6~0.9
7.7	93		0.3		12	35		0	0.1~0.4



## Operating characteristics with HBK-608 driver card

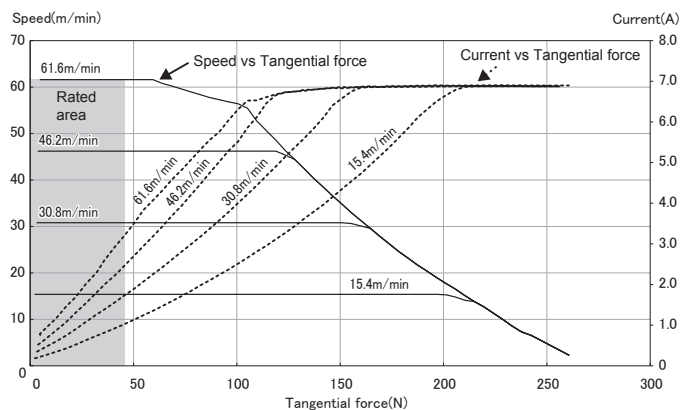
### PM570KT-15

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No
	No-load	Rated	No-load	Starting			
16.2	165		0.8		52	77	9
14.9	165		0.7		48	71	8
13.5	165		0.7		43	64	7
12.2	165		0.6		39	59	6
10.8	165		0.6		35	54	5
9.5	165	939	0.5	7.0	30	47	4
8.1	165		0.5		26	42	3
6.8	165		0.4		22	36	2
5.4	165		0.4		17	30	1
4.1	165		0.3		14	27	0




### PM570KT-55

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No
	No-load	Rated	No-load	Starting			
61.6	46		0.8		52	77	9
56.5	46		0.7		48	71	8
51.4	46		0.7		43	64	7
46.2	46		0.6		39	59	6
41.1	46		0.6		35	54	5
36.0	46	260	0.5	7.0	30	47	4
30.8	46		0.5		26	42	3
25.7	46		0.4		22	36	2
20.5	46		0.4		17	30	1
15.4	46		0.3		14	27	0



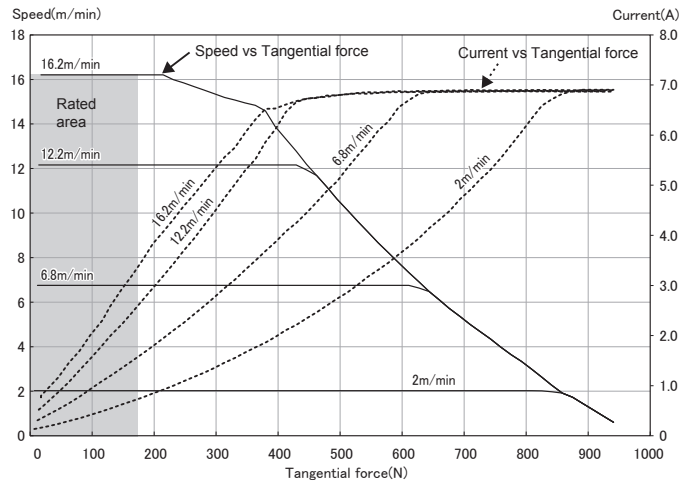
\* The values in the characteristics list are when an ambient temperature is 25 degree C, and only for your reference and not the warranted values. The values represent the characteristics of a single standard motor roller (no linked operation) without including other specifications, and the values may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

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

Operating characteristics with IB-E04 driver card

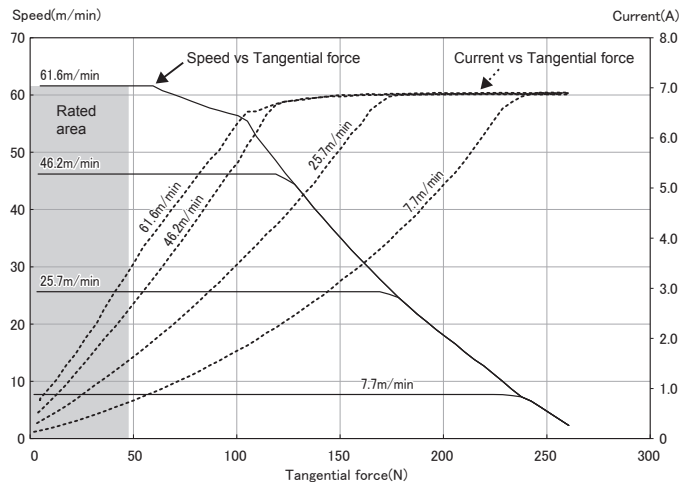
PM570KT-15

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	Rated	Starting	No-load	Starting		
16.2	174		0.8		54	77
14.9	174		0.8		53	77
14.2	174		0.8		46	68
13.5	174		0.7		43	64
12.8	174		0.7		41	62
12.2	174		0.7		39	59
10.8	174		0.6		35	54
10.1	174		0.6		33	50
9.5	174		0.5		30	47
8.8	174		0.5		28	45
8.1	174		0.5		26	42
7.4	174		0.4		24	39
6.8	174		0.4		22	36
6.1	174		0.4		20	33
5.4	174		0.4		17	30
4.7	174		0.4		15	27
4.1	174		0.3		13	25
3.4	174		0.3		11	22
2.7	174		0.3		9	19
2.0	174		0.3		7	17



PM570KT-55

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	Rated	Starting	No-load	Starting		
61.6	48		0.8		54	77
56.5	48		0.8		53	77
53.9	48		0.8		46	68
51.4	48		0.7		43	64
48.8	48		0.7		41	62
46.2	48		0.7		39	59
41.1	48		0.6		35	54
38.5	48		0.6		33	50
36.0	48		0.5		30	47
33.4	48		0.5		28	45
30.8	48		0.5		26	42
28.2	48		0.4		24	39
25.7	48		0.4		22	36
23.1	48		0.4		20	33
20.5	48		0.4		17	30
18.0	48		0.4		15	27
15.4	48		0.3		13	25
12.8	48		0.3		11	22
10.3	48		0.3		9	19
7.7	48		0.3		7	17



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