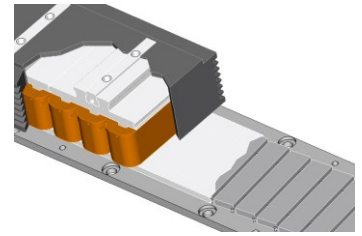


KPT Series (KLT, Platen core, Tiny size)



Motor Specifications

Items		Model	KPT-1S	KPT-2S	KPT-3S	KPT-4S /(2S2P)	KPT-5S
Force [N]	Continuous		52.6	105.2	157.8	210.4	263.0
	Peak		175.7	351.4	527.1	702.8	878.5
Current [A _{rms}]	Continuous		2.4	2.4	2.4	2.4/4.8	2.4
	Peak		8.5	8.5	8.5	8.5/17.0	8.5
Back EMF Const[V _{rms} /(m/s)]			7.31	14.61	21.92	29.22/14.6	36.53
Motor Constant[N/A _{rms}] <small>note1)</small>			21.92	43.83	65.75	87.67/43.8	109.58
Max. Velocity[m/s] <small>note2)</small>			13.2	5.9	3.5	2.3/6.8	1.6
Resistance [Ω] <small>note1)</small>			1.0	2.0	3.0	4.0/1.0	5.0
Inductance [mH] <small>note1)</small>			4.0	7.9	11.9	15.8/4.0	19.8
Attraction Force[N] <small>note3)</small>			310.3	620.5	930.8	1,241.0	1,551.3
Mover Weight [kg]			0.6	0.8	1.0	1.2	1.4

Note1) All Parameters indicate at phase level (3-phases, Y-connection, Phase-to-Neutral) at room temperature.

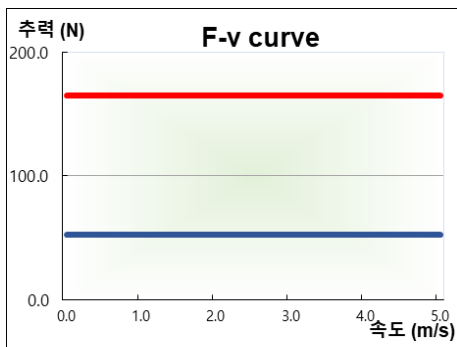
Note2) Motor Driver works for 3 phases with AC 220V and maximum velocity is subjected to modified by DC link voltage.

Note3) Magnetic attraction force is between the coils and the magnets through air-gap.

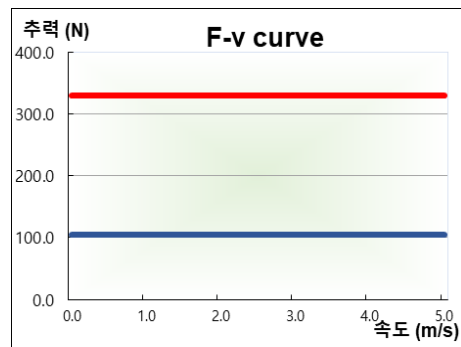
Force-Velocity Characteristics

■ Rated Area ■ Peak Area

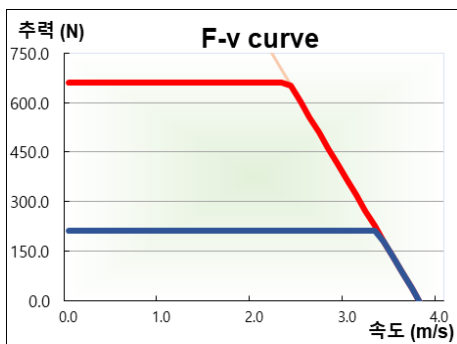
KPT-1S



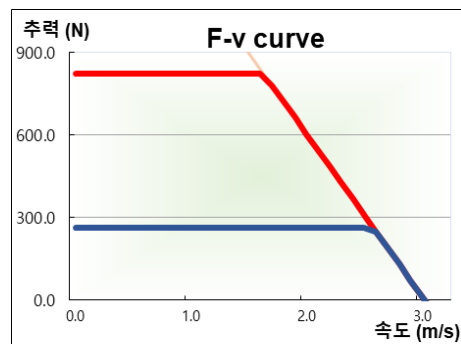
KPT-2S



KPT-4S

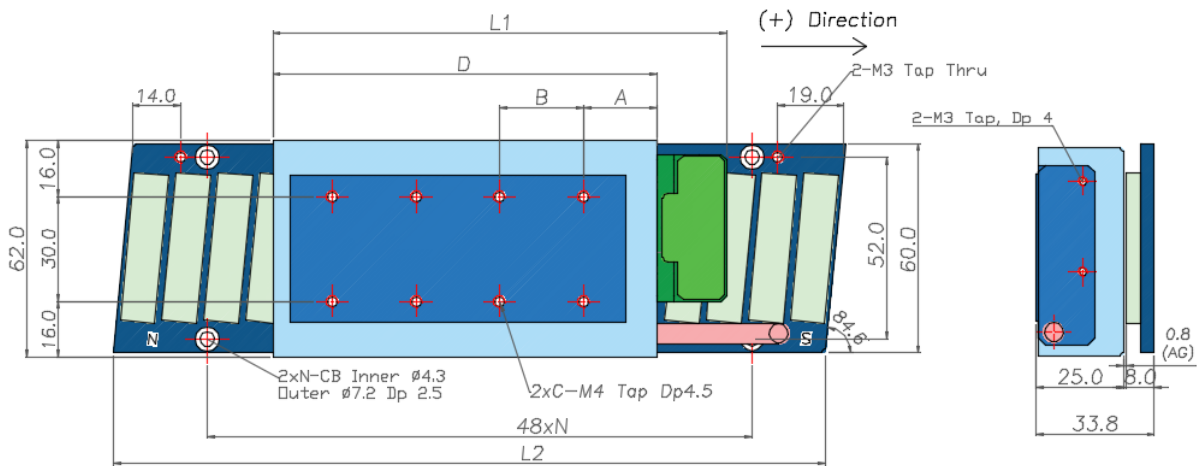


KPT-5S



Outline Dimension

Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KPT-1S	21.0	24.0	2	62.0	82.0
KPT-2S	21.0	24.0	4	110.0	130.0
KPT-3S	21.0	24.0	6	158.0	178.0
KPT-4S	21.0	24.0	8	206.0	226.0
KPT-5S	21.0	24.0	10	254.0	274.0



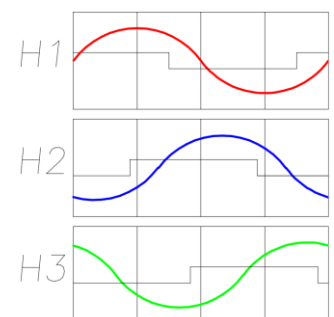
- Magnetic Rail shape(skew) and Mover width are changed from 2019.

Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
KPT-96	96.0	2	0.6	12.0
KPT-144	144.0	3	0.9	
KPT-240	240.0	5	1.2	

- Other models with special length are available.
- Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.

Motor and Hall sensor Cables

Cables	Signals	Colors	Length
Motor Cable (AWG20)	U V W FG	Red White Black Green	STD: 0.6M OPTION: 1.0M, 1.5M, 2.0M, ETC
Hall Sensor Cable (AWG22)	+5V GND H1 (U) H2 (V) H3 (W)	Red Black Blue Green White	STD: 0.6M OPTION: 1.0M, 1.5M



- The Hall offset angle in each phase is 135 degree at falling edge.

* Hall Sensor phase at Back EMF.