

HTROBOT

Integrated linear module

English selection guide

Linear motion components and multi-axis automation, with practical support from Tianjin.

Based in Tianjin, HTROBOT works with customers on industrial linear motion and multi-axis automation. Our range brings together linear modules, guides, ball screws, actuators and XYZ stages.

Models: MTH5; MTH8; MTH12

We connect component supply with application discussions for positioning, transfer and multi-axis equipment.

Core listed values

Compare models on the same row of ratio or lead, speed and load.

Model	Ball-screw lead (mm)	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
MTH5	5 / 10 / 20	250 / 500 / 1000	30 / 15 / 10	10 / 5 / 2.5	341 / 170 / 85
MTH8	5 / 10 / 20 / 32	250 / 500 / 1000 / 1600	50 / 30 / 18 / 9	15 / 8 / 3 / -	683 / 341 / 174 / 85
MTH12	5 / 10 / 20 / 32	250 / 500 / 1000 / 1600	110 / 88 / 40 / 30	33 / 22 / 10 / 8	1388 / 694 / 347 / 218

Integrated linear module KTH5

MTH5 · Integrated linear module

Read positioning, load and speed under the same lead and installation conditions. For vertical motion, include holding and brake requirements in the axis proposal.



MTH5 product illustration

Selection values

Ball-screw lead (mm)	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
5	250	30	10	341
10	500	15	5	170
20	1000	10	2.5	85

Reviewed specifications · 100 W motor

Parameter	Value
Ball-screw specification	12 mm

Parameter	Value
Maximum speed	1000 mm/s
Maximum stroke	800 mm
Motor power	100 W
Ball screw diameter	12 mm
Power output (table condition)	100 W
Ordering example (reference)	MTH5-L05-500-BC-F0-10-B-C4
Overhang MP	105 N.m
Overhang MR	150 N.m
Overhang MY	105 N.m
Repeatability	±0.01 mm · Grade C
Repeatability	±0.008 mm · Grade P
Stroke increment	50 mm
Stroke range	50-800 mm

Stroke over 600mm requires lower speed;

Integrated linear module KTH8

MTH8 · Integrated linear module

Read positioning, load and speed under the same lead and installation conditions. For vertical motion, include holding and brake requirements in the axis proposal.



MTH8 product illustration

Selection values

Ball-screw lead (mm)	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
5	250	50	15	683
10	500	30	8	341
20	1000	18	3	174
32	1600	9	-	85

Reviewed specifications · 200 W motor

Parameter	Value
Maximum stroke	1050 mm
Motor power	200 W
Ball screw diameter	16 mm
Power output (table condition)	200 W
Ordering example (reference)	MTH8-L05-500-BC-F0-20-B-C4
Overhang MP	320 N.m
Overhang MR	630 N.m
Overhang MY	320 N.m
Repeatability	±0.01 mm · Grade C
Repeatability	±0.008 mm · Grade P
Stroke increment	50 mm
Stroke range	50-1050 mm

Stroke over 750mm requires lower speed;

The source dash is not a zero or a documented vertical rating.

Integrated linear module KTH12

MTH12 · Integrated linear module

Read positioning, load and speed under the same lead and installation conditions. For vertical motion, include holding and brake requirements in the axis proposal.



MTH12 product illustration

Selection values

Ball-screw lead (mm)	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
5	250	110	33	1388
10	500	88	22	694
20	1000	40	10	347
32	1600	30	8	218

Reviewed specifications · 400 W motor

Parameter	Value
Maximum stroke	1050 mm



Parameter	Value
Motor power	400 W
Ball screw diameter	16 mm
Power output (table condition)	400 W
Ordering example (reference)	MTH12-L05-500-BC-F0-40-B-C4
Overhang MP	606 N.m
Overhang MR	606 N.m
Overhang MY	1168 N.m
Repeatability	±0.01 mm · Grade C
Repeatability	±0.008 mm · Grade P
Stroke increment	50 mm
Stroke range	50-1250 mm

Stroke over 800mm requires lower speed;

Main 1250mm/ordering 1050mm source conflict is retained.

Contact

Start with a product or an application. Use the inquiry draft to collect what you are considering, or contact us directly with your requirements.

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