

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
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.

Installation drawings are in the separate dimension atlas.

emmy@htrobot.com www.htrobot.com

Engineering reference

Application notes

Motor installation reference: BC: outside;

BL: left;

BR: right;

BM: lower. Source ordering reference only.

Sensor ordering reference: C4:672/674 photoelectric switch;

E5: not supplied. No outside/inside or motor-direction mapping is inferred.

Original accuracy code reference: Main table $C \pm 0.01/P \pm 0.008$;

ordering code $L \pm 0.01/P \pm 0.008$. The original code letters are retained, not merged.

Source stroke conflict: Main table and overview: 50-1250mm;

ordering column: 50-1050mm. Confirm the conflicting 1050/1250 limits for stroke above 1050;
do not silently replace either source.