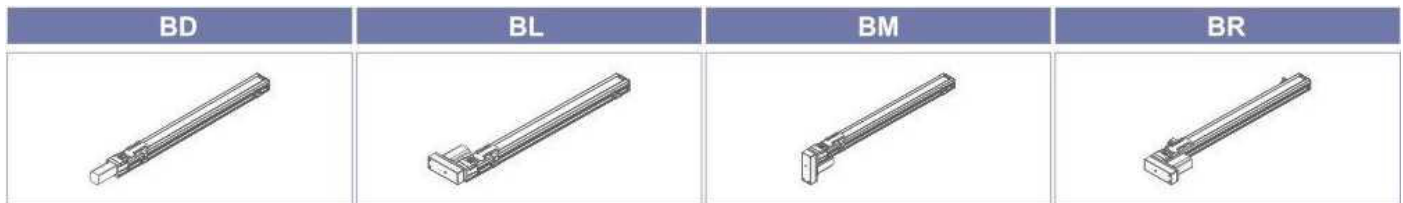


Integrated ball-screw linear module · HTH12

KTH12 · Integrated ball-screw 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.



KTH12 · motor mounting illustrations

Reviewed specifications

Parameter	Value	Applies to
Permissible overhang moment MP	606 Nm	
Permissible overhang moment MR	1168 Nm	
Permissible overhang moment MY	606 Nm	
Horizontal catalog load	30 kg	Lead 32 mm
Horizontal catalog load	40 kg	Lead 20 mm
Horizontal catalog load	110 kg	Lead 5 mm
Horizontal catalog load	88 kg	Lead 10 mm
Vertical catalog load	33 kg	Lead 5 mm
Vertical catalog load	10 kg	Lead 20 mm
Vertical catalog load	11 kg	Lead 10 mm
Vertical catalog load	8 kg	Lead 32 mm
Rated thrust	480 N	Lead 10 mm
Rated thrust	200 N	Lead 32 mm
Rated thrust	240 N	Lead 20 mm
Rated thrust	954 N	Lead 5 mm
Catalog speed (see the stroke/speed table)	1600 mm/s	Lead 32 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.
Catalog speed (see the stroke/speed table)	1000 mm/s	Lead 20 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.

Parameter	Value	Applies to
Catalog speed (see the stroke/speed table)	250 mm/s	Lead 5 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.
Catalog speed (see the stroke/speed table)	500 mm/s	Lead 10 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.
Motor power	400 W	
Repeatability (source wording)	±0.01 mm	
Screw outer diameter (source wording)	016	
Stroke interval	50 mm	
Movement distance	100-1250 mm	

A unit is printed only where the source states one.

Installation drawings are in the separate dimension atlas.

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Engineering reference

Overhang limits, horizontal

Printed lead/load	A(mm)	B(mm)	C(mm)
5 · 60kg	2850 mm	250 mm	340 mm
5 · 80kg	2100 mm	180 mm	250 mm
5 · 110kg	1500 mm	120 mm	170 mm
10 · 30kg	2850 mm	490 mm	600 mm
10 · 50kg	1700 mm	280 mm	350 mm
10 · 88kg	950 mm	140 mm	190 mm
20 · 10kg	3400 mm	1250 mm	1400 mm
20 · 22kg	1650 mm	550 mm	620 mm
20 · 40kg	900 mm	290 mm	330 mm
32 · 15kg	1100 mm	570 mm	550 mm
32 · 25kg	620 mm	330 mm	320 mm
32 · 30kg	520 mm	270 mm	260 mm

Original installation-conditioned distances(mm), separate from speed and saleable configurations. Blanks/dashes and source row positions are retained. No neighboring-axis or model substitution.

Source nonnumeric glyphs ISO/S3/S50 are retained as visible literals; intended numeric values require confirmation.

The original vertical table has A/C columns only; B is not specified, not zero.

Overhang limits, side

Printed lead/load	A(mm)	B(mm)	C(mm)
5 · 55kg	280 mm	280 mm	3300 mm
5 · 75kg	200 mm	195 mm	2400 mm
5 · 110kg	130 mm	125 mm	1550 mm
10 · 35kg	400 mm	420 mm	2500 mm
10 · 55kg	245 mm	250 mm	1550 mm
10 · 88kg	150 mm	150 mm	950 mm
20 · 12kg	900 mm	1070 mm	3000 mm
20 · 20kg	550 mm	630 mm	1800 mm
20 · 40kg	260 mm	300 mm	900 mm
32 · 15kg	440 mm	570 mm	1050 mm
32 · 30kg	210 mm	270 mm	520 mm
32 ·			

Original installation-conditioned distances(mm), separate from speed and saleable configurations. Blanks/dashes and source row positions are retained. No neighboring-axis or model substitution.

The original vertical table has A/C columns only; B is not specified, not zero.

Overhang limits, vertical

Printed lead/load	A(mm)	B(mm)	C(mm)
5 · 15kg	1200 mm		1200 mm

Printed lead/load	A(mm)	B(mm)	C(mm)
5 · 22kg	820 mm		820 mm
5 · 33kg	550 mm		550 mm
10 · 10kg	1600 mm		1600 mm
10 · 14kg	1150 mm		1150 mm
10 · 22kg	730 mm		730 mm
20 · 7kg	1800 mm		1800 mm
20 · 10kg	1250 mm		1250 mm
20 ·			
32 · 5kg	1600 mm		1600 mm
32 · 8kg	1000 mm		1000 mm
32 ·			

Original installation-conditioned distances(mm), separate from speed and saleable configurations. Blanks/dashes and source row positions are retained. No neighboring-axis or model substitution.

The original vertical table has A/C columns only;
 B is not specified, not zero.

Ordering, installation and application references

Scope	Current source reference
ordering	KTH12-L10-S100-BD-P400W-B. Example fields:model/lead/stroke/motor direction/brand-power/brake. BD:direct; BL:left; BR:right; BM:lower. M:Mitsubishi/Y:Yaskawa/P:Panasonic/T:Delta. Example is a source ordering reference, not a product identity.
installation	Original BD/BR page104 and BL/BM105; installation tables begin50mm whereas main travel range begins100mm. Extra drawing row does not create a50mm saleable configuration.
application	Clean-room-oriented compact embedded screw slide with integrated slider/slide seat, U-shaped base and cover. Source applications:FPD, semiconductor/medical automation, precision measuring instruments and automation equipment. Actual cleanliness and system suitability need application confirmation.