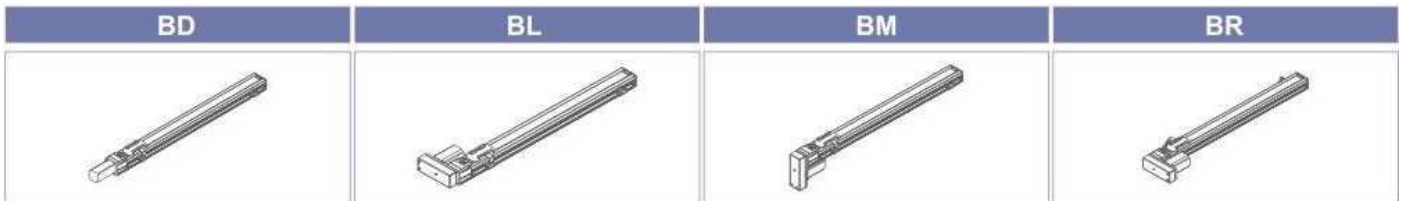


Integrated ball-screw linear module · HTH5

KTH5 · 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.



KTH5 · motor mounting illustrations

Reviewed specifications

Parameter	Value	Applies to
Permissible overhang moment MP	100 Nm	
Permissible overhang moment MR	145 Nm	
Permissible overhang moment MY	100 Nm	
Horizontal catalog load	15 kg	Lead 10 mm
Horizontal catalog load	30 kg	Lead 5 mm
Vertical catalog load	5 kg	Lead 10 mm
Vertical catalog load	10 kg	Lead 5 mm
Rated thrust	327 N	Lead 5 mm
Rated thrust	163 N	Lead 10 mm
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.
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.
Motor power	100 W	
Repeatability (source wording)	±0.01 mm	
Screw outer diameter (source wording)	012	
Stroke interval	50 mm	
Movement distance	100-800 mm	

A unit is printed only where the source states one.

Engineering reference

emmy@htrobot.com www.htrobot.com

Overhang limits, horizontal

Printed lead/load	0°(mm)	45°(mm)	90°(mm)
Lerd10 · 5kg	380 mm	260 mm	600 mm
Lerd10 · 10kg	258 mm	186 mm	370 mm
Lerd10 · 15kg	120 mm	80 mm	160 mm
Lerd05 · 10kg	420 mm	270 mm	650 mm
Lerd05 · 20kg	230 mm	170 mm	380 mm
Lerd05 · 30kg	110 mm	60 mm	150 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.

Overhang limits, wall

Printed lead/load	0°(mm)	45°(mm)	90°(mm)
Lerd10 · 5kg	600 mm	210 mm	153 mm
Lerd10 · 10kg	370 mm	140 mm	86 mm
Lerd10 · 15kg	250 mm	76 mm	66 mm
Lerd05 · 10kg	550 mm	310 mm	ISO mm
Lerd05 · 20kg	350 mm	132 mm	80 mm
Lerd05 · 30kg	100 mm	76 mm	60 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.

Overhang limits, vertical

Printed lead/load	0°(mm)	45°(mm)	90°(mm)
Lerd10 · 1kg	680 mm	260 mm	580 mm
Lerd10 · 3kg	458 mm	186 mm	458 mm
Lerd10 · 5kg	220 mm	110 mm	220 mm
Lerd05 · 6kg	380 mm	270 mm	380 mm
Lerd05 · 8kg	258 mm	170 mm	258 mm
Lerd05 · 10kg	100 mm	76 mm	100 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.

Ordering, installation and application references

Scope	Current source reference
ordering	KTH5-L10-S100-BD-P100W-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.

Scope	Current source reference
installation	Original BD/BR installation pages98 and BL/BM99; travel100-800mm. Mounting/flange dimensions remain installation-specific; no dimensions borrowed fromKTH8/12.
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.