

HTROBOT

Integrated ball-screw 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.

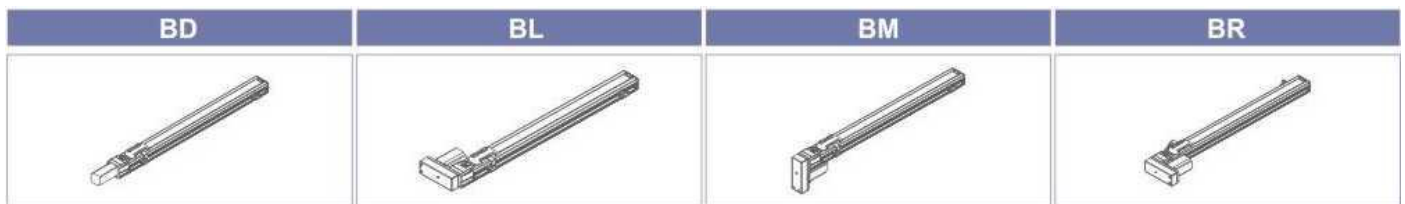
Models: KTH5; KTH8; KTH12

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

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.

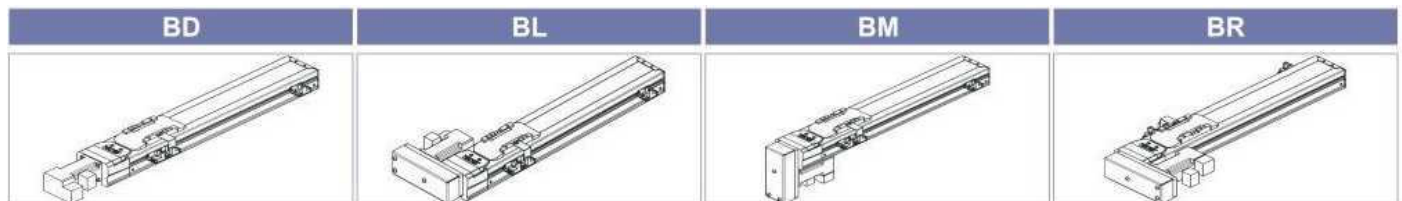
Parameter	Value	Applies to
Catalog speed (see the stroke/speed table)	250 mm/s	Lead 5 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.
Motor power	100 W	
Repeatability (source wording)	±0.01 mm	
Screw outer diameter (source wording)	012	
Stroke interval	50 mm	
Movement distance	100-800 mm	

A unit is printed only where the source states one.

Integrated ball-screw linear module · HTH8

KTH8 · 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.



KTH8 · motor mounting illustrations

Reviewed specifications

Parameter	Value	Applies to
Permissible overhang moment MP	320 Nm	
Permissible overhang moment MR	630 Nm	
Permissible overhang moment MY	320 Nm	
Horizontal catalog load	50 kg	Lead 5 mm
Horizontal catalog load	30 kg	Lead 10 mm
Horizontal catalog load	15 kg	Lead 20 mm
Vertical catalog load	15 kg	Lead 5 mm
Vertical catalog load	6 kg	Lead 20 mm
Vertical catalog load	8 kg	Lead 10 mm
Rated thrust	340 N	Lead 10 mm
Rated thrust	176 N	Lead 20 mm

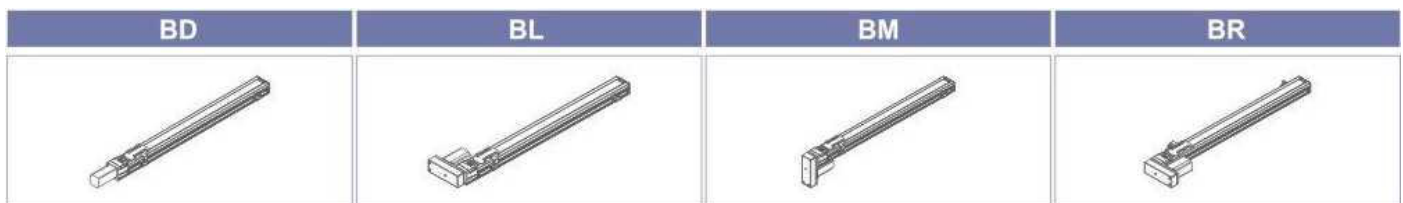
Parameter	Value	Applies to
Rated thrust	685 N	Lead 5 mm
Catalog speed (see the stroke/speed table)	1000 mm/s	Lead 20 mm; Resonance may occur above 600 mm stroke; use the corresponding stroke/speed table for maximum operating speed.
Catalog speed (see the stroke/speed table)	500 mm/s	Lead 10 mm; Resonance 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	200 W	
Repeatability (source wording)	±0.01 mm	
Screw outer diameter (source wording)	016	
Stroke interval	50 mm	
Movement distance	100-1050 mm	

A unit is printed only where the source states one.

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	

Parameter	Value	Applies to
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.
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.

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.

emmy@htrobot.com

www.htrobot.com

Tianjin, China