

HTROBOT

MD series timing-belt linear modules

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: MD10;
 MD12;
 MD14;
 MD17;
 MD22;
 MD135

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

Timing-belt linear module HTMD10

MD10 · MD series timing-belt linear modules

Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.



MD10 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)
3	1500	5	3
5	900	15	3
7	642	30	3
8	562	38	3

Reviewed specifications

Parameter	Value
Belt lead	90 mm
Synchronous belt width	22 mm
Motor power	400 W
Repeatability	±0.05 mm
Maximum stroke	3500 mm

Parameter	Value
Minimum stroke	100 mm
Stroke interval	50 mm

Timing-belt linear module HTMD12

MD12 · MD series timing-belt linear modules

Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.



MD12 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)
3	1500	5	3
5	900	15	3
8	562	38	3
10	450	46	3

Reviewed specifications

Parameter	Value
Belt lead	90 mm
Synchronous belt width	22 mm
Motor power	400 W
Repeatability	±0.05 mm
Maximum stroke	3500 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Timing-belt linear module HTMD14

MD14 · MD series timing-belt linear modules

Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.



MD14 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)
5	1350	10	10
8	843	28	20
10	675	45	20
15	450	80	20

Reviewed specifications

Parameter	Value
Belt lead	135 mm
Synchronous belt width	30 mm
Motor power	400 W
Repeatability	±0.05 mm
Maximum stroke	3500 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Timing-belt linear module HTMD17

MD17 · MD series timing-belt linear modules

Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.



MD17 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)
3	2250	10	10
5	1350	30	20
8	843	75	40
10	675	100	40

Reviewed specifications

Parameter	Value
Belt lead	135 mm
Synchronous belt width	50 mm
Motor power	750 W
Repeatability	±0.05 mm
Maximum stroke	3500 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Timing-belt linear module HTMD22

MD22 · MD series timing-belt linear modules

Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.



MD22 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)
3	1800	30	25
8	1125	75	45
10	900	95	60
15	600	150	60

Reviewed specifications

Parameter	Value
Belt lead	180 mm
Synchronous belt width	60 mm

Parameter	Value
Motor power	1000 W
Repeatability	±0.05 mm
Maximum stroke	3300 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Timing-belt linear module HTMD135

MD135 · MD series timing-belt linear modules

A belt-driven platform moves its carriage through a belt transmission. Compare required travel and speed with the belt arrangement, reduction options and available mounting space. Check the model drawing for drive-end and carriage interfaces. Include belt tension, maintenance access and the positioning requirement in the axis review.

Selection values

Reduction ratio	Maximum speed	Horizontal load	Vertical load
5	1350 mm/s	15 kg	15 kg
8	843 mm/s	30 kg	20 kg
10	675 mm/s	45 kg	25 kg
15	450 mm/s	85 kg	25 kg

Reviewed specifications

Parameter	Value
Synchronous belt width	30 mm
Belt lead	135 mm
Motor power	750 W
Repeatability	±0.05 mm (Grade C)
Stroke range	100-3500 (interval 50) mm

Speed condition: motor 3000 rpm.

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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