

HTROBOT

Rack-and-pinion linear stage series

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: MS14; MS17; MS21

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

Core listed values

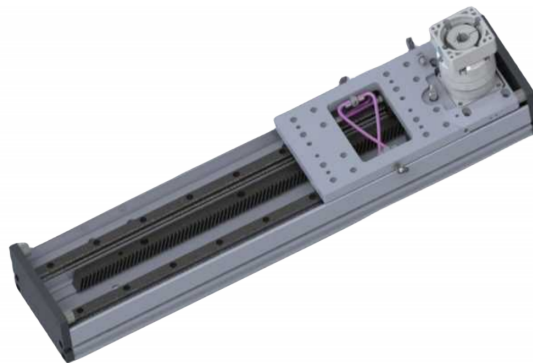
Compare models on the same row of ratio or lead, speed and load.

Model	Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
MS14	4 / 5 / 8 / 10	1562 / 1250 / 781 / 625	30 / 40 / 60 / 80	10 / 15 / 20 / 30	208 / 320 / 416 / 640
MS17	4 / 5 / 8 / 10	2000 / 1666 / 1041 / 833	52 / 75 / 105 / 130	20 / 30 / 40 / 50	396 / 566 / 792 / 1133
MS21	4 / 5 / 8 / 10	2000 / 2000 / 1375 / 1100	70 / 100 / 140 / 200	20 / 30 / 40 / 50	313 / 457 / 626 / 747

Rack-and-pinion linear stage series HTMS14

MS14 · Rack-and-pinion linear stage series

Check overhang moments and the load position with the model dimensions. The rail and drive layout must fit the required travel and support structure.



MS14 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
4	1562	30	10	208
5	1250	40	15	320
8	781	60	20	416
10	625	80	30	640

Reviewed specifications

Parameter	Value
Maximum stroke	5500 mm
Gear lead	125 mm
Motor power	400 W
Repeatability	±0.1 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Rack-and-pinion linear stage series HTMS17

MS17 · Rack-and-pinion linear stage series

Check overhang moments and the load position with the model dimensions. The rail and drive layout must fit the required travel and support structure.



MS17 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
4	2000	52	20	396
5	1666	75	30	566
8	1041	105	40	792
10	833	130	50	1133

Reviewed specifications

Parameter	Value
Maximum stroke	5500 mm
Gear lead	166 mm
Motor power	750 W
Repeatability	±0.1 mm
Minimum stroke	100 mm
Stroke interval	50 mm

Rack-and-pinion linear stage series HTMS21

MS21 · Rack-and-pinion linear stage series

Check overhang moments and the load position with the model dimensions. The rail and drive layout must fit the required travel and support structure.



MS21 product illustration

Selection values

Reduction ratio	Maximum speed (mm/s)	Horizontal load (kg)	Vertical load (kg)	Rated thrust (N)
4	2000	70	20	313
5	2000	100	30	457
8	1375	140	40	626
10	1100	200	50	747

Reviewed specifications

Parameter	Value
Gear lead	250 mm
Motor power	1000 W
Repeatability	±0.1 mm
Minimum stroke	100 mm
Stroke interval	50 mm

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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