

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.



MD135 catalogue product illustration, not a configuration photograph

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

Key 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.

Installation drawings are in the separate dimension atlas.

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Engineering reference

Permissible load moments

Parameter	Value
Permissible overhang moment MP	552 Nm
Permissible overhang moment MR	485 Nm
Permissible overhang moment MY	551 Nm

Source markings

Different catalogue regions;
 not one speed, load or motor rating.

Item	Basic / ratio table	Overview marking	Selection / catalogue marking
Maximum speed	1350 / 843 / 675 / 450 mm/s at 3000 rpm	2000 mm/s	6750 mm/s
Horizontal load	15 / 30 / 45 / 85 kg	-	80 kg
Vertical load	15 / 20 / 25 / 25 kg	-	20 kg
Motor power	750 W	-	400 W in motor table
Belt type	-	30-5M	-
Linear guide	-	15-12.5-2 pcs	-

Suitable motors

Brand / code	Power	Voltage	Brake marking
Mitsubishi / M	400 W	220 V	Without brake / with brake
Panasonic / P	400 W	220 V	Without brake / with brake
Siemens / S	400 W	220 V	Without brake / with brake
Delta / T	400 W	220 V	Without brake / with brake

L / R mounting dimensions

S (mm)	L (mm)	A (mm)	M	N	weight (kg)
100	585	120	1	0	8.2
150	635	170	1	0	8.7
200	685	20	2	1	9.1
250	735	70	2	1	9.5
300	785	120	2	1	9.9
350	835	170	2	1	10.3
400	885	20	3	2	10.7
450	935	70	3	2	11.1
500	985	120	3	2	11.5
600	1085	20	4	3	12.3
700	1185	120	4	3	13.1
800	1285	20	5	4	13.9
900	1385	120	5	4	14.7
1000	1485	20	6	5	15.5
2000	2485	20	11	10	23.5
3000	3485	20	16	15	31.5
3500	3985	120	18	17	35.5

Sample strokes for L and R mounting. S, L, A, M, N and weight stay on the same mounting row.