

BD07

Belt type



CE compliance

Ordering method

BD07	48	N	N							
Model	Lead 48: 48mm	Brake N: With no brake	Origin position N: Standard	Stroke 300: 300mm 500: 500mm 600: 600mm 700: 700mm 800: 800mm 900: 900mm 1000: 1000mm 1200: 1200mm 1500: 1500mm 1800: 1800mm 2000: 2000mm	Cable length ^{Note 1} 1L: 1m 3L: 3m 5L: 5m 10L: 10m	Robot positioner S2: TS-S2 ^{Note 2} SH: TS-SH	I/O NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ GW: No I/O board ^{Note 3}	Battery ^{Note 4} B: With battery (Absolute) N: None (Incremental)		
						SD	1			
						Robot driver SD: TS-SD	I/O cable 1: 1m			

Note 1. The robot cable is flexible and resists bending.
 Note 2. See P.446 for DIN rail mounting bracket.
 Note 3. Select this selection when using the gateway function. For details, see P.439.
 Note 4. Select whether or not the battery is provided only when using the TS-SH.

Basic specifications

Motor	56 □ Step motor
Resolution (Pulse/rotation)	20480
Repeatability ^{Note 1} (mm)	+/-0.1
Drive method	Belt
Equivalent lead (mm)	48
Maximum speed ^{Note 2} (mm/sec)	1500
Maximum payload (kg)	14
Stroke (mm)	300/500/600/700/800/900/ 1000/1200/1500/1800/2000
Overall length (mm) (Horizontal installation)	Stroke + 285.6
Maximum outside dimension of body cross-section (mm)	W70 × H147.5
Cable length (m)	Standard: 1 / Option: 3, 5, 10

Note 1. Positioning repeatability in one direction.
 Note 2. The maximum speed needs to be changed in accordance with the payload.
 See the "Speed vs. payload" graph shown on the right.

Allowable overhang

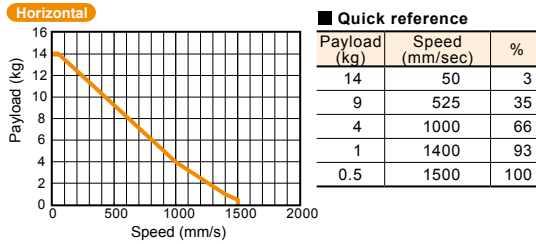
	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)		
	A	B	C	A	B	C
3kg	5767	1353	1247	1324	1354	5588
8kg	1839	399	458	474	399	1658
14kg	829	154	254	255	151	643

Note. Distance from center of slider upper surface to carrier center-of-gravity at a guide service life of 10,000km (This does not warrant the service life of the product.). (Service life is calculated for 600mm stroke models.)

Static loading moment

(Unit: N·m)		
MY	MP	MR
46	46	101

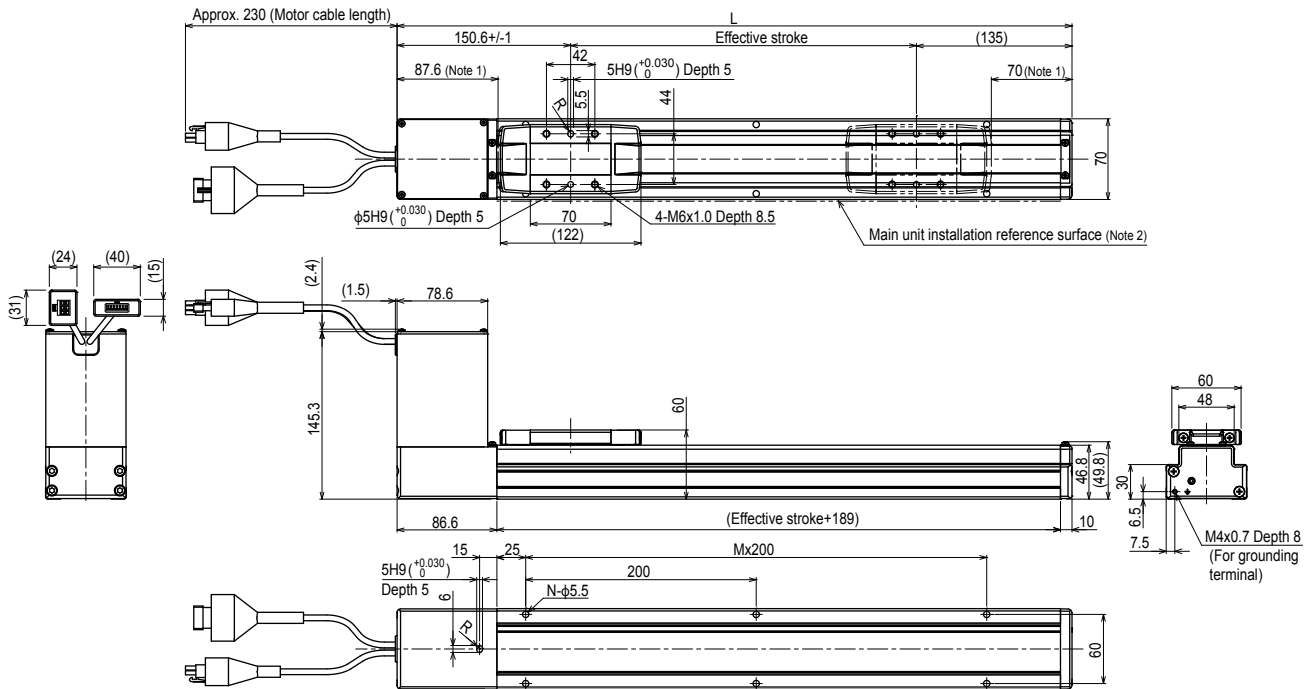
Speed vs. payload



Controller

Controller	Operation method
TS-S2	I/O point trace / Remote command
TS-SH	Remote command
TS-SD	Pulse train control

BD07



Effective stroke	300	500	600	700	800	900	1000	1200	1500	1800	2000
L	585.6	785.6	885.6	985.6	1085.6	1185.6	1285.6	1485.6	1785.6	2085.6	2285.6
M	2	3	3	4	4	5	5	6	8	9	10
N	6	8	8	10	10	12	12	14	18	20	22
Weight (kg)	4.12	4.8	5.14	5.48	5.82	6.16	6.5	7.18	8.2	9.22	9.9

Note1. Position from both ends to the mechanical stopper. (Movable range during return-to-origin)
 Note2. When installing using the main unit installation reference surface, make the mating or positioning height 2mm or more higher than the reference surface since the R-chamfering is provided on the main unit. (Recommended height, 5mm)
 Note3. The minimum bending radius of the motor cable is R30.