

# BD04

Belt type

CE compliance

## Ordering method

<b>BD04</b>	<b>48</b>	<b>N</b>	<b>N</b>			<b>S2</b>	
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	Cable length <sup>Note 1</sup> 1L: 1m 3L: 3m 5L: 5m 10L: 10m	Controller S2: TS-S2	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet EP: EtherNet/IP <sup>Note 2</sup>

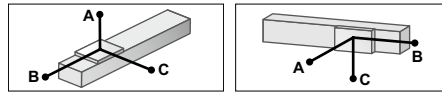
Note 1. The robot cable is flexible and resists bending.  
Note 2. EtherNet/IP will be supported from August, 2013.

## Basic specifications

Motor	28 □ Step motor
Resolution (Pulse/rotation)	4096
Repeatability <sup>Note 1</sup> (mm)	+/-0.1
Drive method	Belt
Equivalent lead (mm)	48
Maximum speed <sup>Note 2</sup> (mm/sec)	1100
Maximum payload (kg)	1
Stroke (mm)	300/500/600/700/800/900/1000
Overall length (mm) (Horizontal installation)	Stroke + 195.5
Maximum outside dimension of body cross-section (mm)	W40 × H101.9
Cable length (m)	Standard: 1 / Option: 3, 5, 10

Note 1. Positioning repeatability in one direction.  
Note 2. The maximum speed may vary depending on the payload.  
Check the "Speed vs. payload" graph (reference).

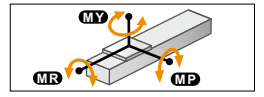
## Allowable overhang <sup>Note</sup>



	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)		
	A	B	C	A	B	C
0.5kg	8036	1950	1504	1614	1942	8013
1kg	3933	968	747	798	961	3969

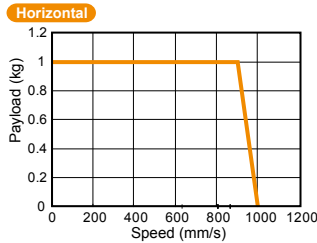
Note. Distance from center of slider upper surface to carrier center-of-gravity at a guide service life of 10,000km (This does not warrant the service life of the product.). (Service life is calculated for 600mm stroke models.)

## Static loading moment



(Unit: N·m)		
MY	MP	MR
10	10	20

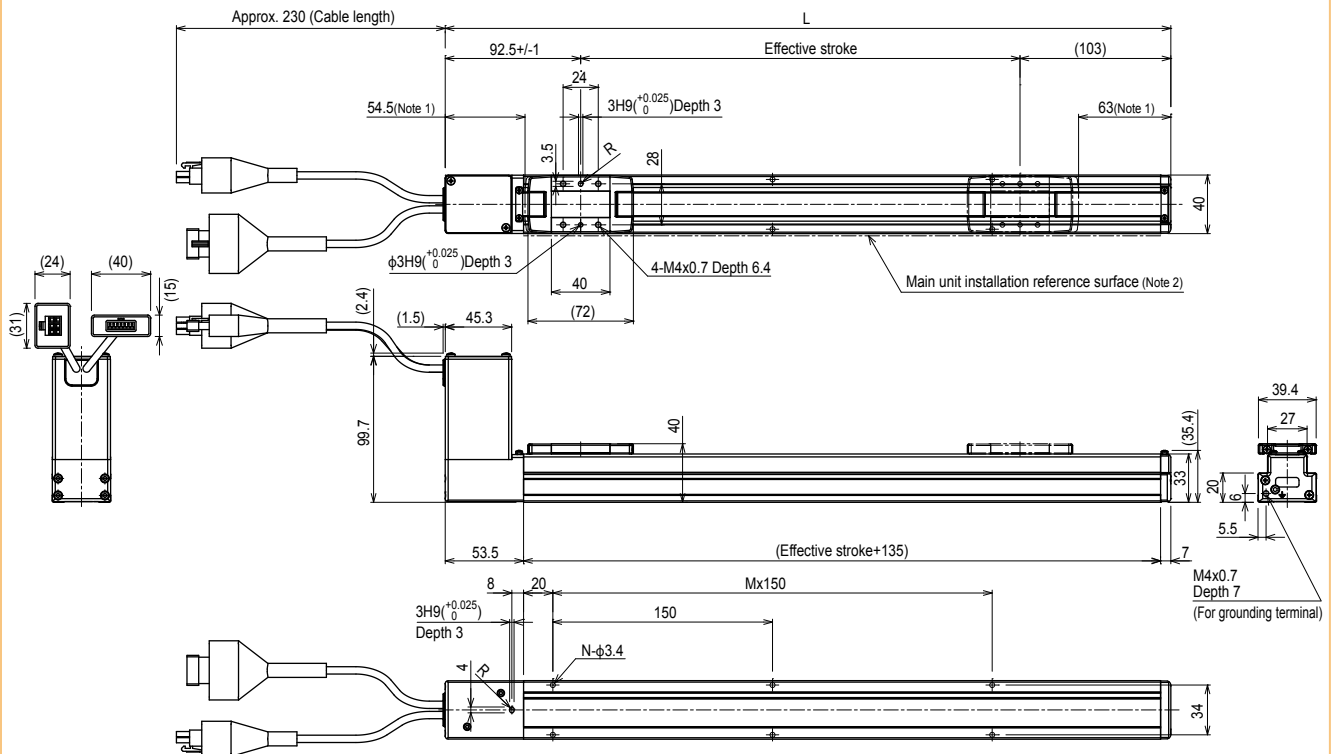
## Speed vs. payload



## Controller

Controller	Operation method
TS-S2	I/O point trace / Remote command

## BD04



Effective stroke	300	500	600	700	800	900	1000
L	495.5	695.5	795.5	895.5	995.5	1095.5	1195.5
M	2	4	4	5	6	6	7
N	6	10	10	12	14	14	16
Weight (kg)	1.19	1.45	1.58	1.71	1.84	1.97	2.1

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.