



# Slides - Linear - Clean Room

10/4/2018

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MBA Size Listings are a guide to sizes only and must not be solely relied on for critical design information.

## INFORMATION

Stainless Steel throughout (similar to 440C).

Speed: 0.5 m/sec (30 m/min).

Temperature: +100<sup>o</sup>C (Continuous), +140<sup>o</sup>C (Maximum). Life will be less than normal at +100<sup>o</sup>C and dimensions may change.

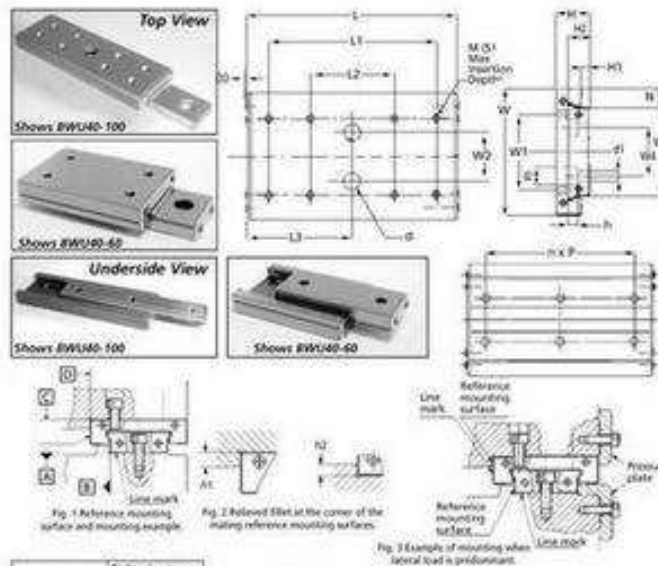
Lateral Loading: Dynamic x 1.13 C - Static x 1.19 Co.

Precision Linear Slide Unit is a compact linear motion rolling guide for limited stroke length.

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Bolt size	Tightening torque (Nm)
M3 x 0.5	1.5
M4 x 0.7	3.5

Mounting bolt tightening torques in general application when low-carbon socket head stainless steel bolts (equivalent to JIS surface finish A2-70) are used.

Model Number	Shoulder height		Model Number	Shoulder height		Recommended shoulder height of the reference mounting surface
	at Side (H1)	at Bed (H2)		at Side (H1)	at Bed (H2)	
#WU8	3.2	0.8	#WU30	3.0	2.0	
#WU12	3.5	0.8	#WU40	3.0	2.5	
#WU17	2.5	1.2	#WU60	4.0	2.5	
#WU20	3.5	1.5				

**Precision Linear Slide Unit** is a compact linear motion rolling guide for limited stroke length. Steel balls are arranged in two rows and each ball makes contact with the ground surfaces at four points. This ensures stiffness highly accurate and smooth linear motion with high rigidity under load, including any complex load. The table, shaft, retainers, ball and plates, etc. are made of stainless steel to give superior corrosion resistance. This series is suitable for use in a clean room and also in medical equipment, IC manufacturing equipment etc.

1. High accuracy: 2.0µm/100mm

To obtain consistently high accuracy in operation, do not exceed 20% of the lower static load rating.

For temperatures over 100°C we can supply special high temperature grease (200°C, supplied in syringe) CGD-01.

**Mounting**  
**Reference mounting surface:** The reference mounting surface is always identified by the size marks (Fig. 1).  
**General Mounting Precautions:** As shown in Fig. 1, the reference mounting surfaces (B) and (C) and the mounting surfaces (A) and (D) are precisely finished by grinding. Stable linear motion with high accuracy will be obtained by vertically mounting the unit on the mounting surfaces of the machine which will be precisely finished. It is recommended to make a relieved fillet at the corner of the mating reference mounting surfaces as shown in Fig. 2.  
 Where Lateral Load is Predominant, As shown in Fig. 3, fix the side of the table and the side of the bed securely into the machine.

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Part Number	Width (W) mm	Height (H) mm	Length (L) mm	Hole Ctrs (W1 / W2 / L1 / L2) mm	Holes Thr x S1 (Nr.)	Max Stroke Length mm	Screw Size / Max Depth mm	Track Width (W3) mm	Track Height (H2) mm	Basic Static Load Rating Co N
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	
# BWU8-20	8.00 <i>0.315</i>	4.00 <i>0.157</i>	20.00 <i>0.787</i>	- / - / 10 / -	M2 x 0.8 (4)	12 <i>0.472</i>	0.8 <i>0.031</i>	3 <i>0.118</i>	2.6 <i>0.102</i>	306
# BWU8-30	8.00 <i>0.315</i>	4.00 <i>0.157</i>	30.00 <i>1.181</i>	- / - / 21 / 10	M2 x 0.8 (4)	17 <i>0.669</i>	0.8 <i>0.031</i>	3 <i>0.118</i>	2.6 <i>0.102</i>	550
# BWU12-30	12.00 <i>0.472</i>	4.50 <i>0.177</i>	30.00 <i>1.181</i>	- / - / 15 / -	M2 x 1.1 (4)	17 <i>0.669</i>	1.1 <i>0.043</i>	6 <i>0.236</i>	2.8 <i>0.110</i>	550
# BWU12-45	12.00 <i>0.472</i>	4.50 <i>0.177</i>	45.00 <i>1.772</i>	- / - / 31 / 15	M2 x 1.1 (4)	26 <i>1.024</i>	1.1 <i>0.043</i>	6 <i>0.236</i>	2.8 <i>0.110</i>	856
# BWU17-30	17.00 <i>0.669</i>	8.00 <i>0.315</i>	30.00 <i>1.181</i>	- / - / 20 / -	M2 x 3.0 (2)	17 <i>0.669</i>	3.0 <i>0.118</i>	7 <i>0.276</i>	5 <i>0.197</i>	963
# BWU17-45	17.00 <i>0.669</i>	8.00 <i>0.315</i>	45.00 <i>1.772</i>	- / - / 30 / -	M2 x 3.0 (2)	16 <i>0.630</i>	3.0 <i>0.118</i>	7 <i>0.276</i>	5 <i>0.197</i>	1510
# BWU25-45	25.00 <i>0.984</i>	9.00 <i>0.354</i>	45.00 <i>1.772</i>	10 / - / 25 / -	M3 x 3.0 (4)	26 <i>1.024</i>	3.0 <i>0.118</i>	14 <i>0.551</i>	5.2 <i>0.205</i>	1510
# BWU25-60	25.00 <i>0.984</i>	9.00 <i>0.354</i>	60.00 <i>2.362</i>	10 / - / 25 / -	M3 x 3.0 (4)	36 <i>1.417</i>	3.0 <i>0.118</i>	14 <i>0.551</i>	5.2 <i>0.205</i>	2060
# BWU25-75	25.00 <i>0.984</i>	9.00 <i>0.354</i>	75.00 <i>2.953</i>	10 / - / 25 / 25	M3 x 3.0 (8)	46 <i>1.811</i>	3.0 <i>0.118</i>	14 <i>0.551</i>	5.2 <i>0.205</i>	2610
# BWU30-45	30.00 <i>1.181</i>	12.00 <i>0.472</i>	45.00 <i>1.772</i>	14 / - / 25 / -	M3 x 3.5 (4)	28 <i>1.102</i>	3.5 <i>0.138</i>	18 <i>0.709</i>	7.5 <i>0.295</i>	2200

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Part Number	Width (W) mm	Height (H) mm	Length (L) mm	Hole Ctrs (W1 / W2 / L1 / L2) mm	Holes Thr x S1 (Nr.)	Max Stroke Length mm	Screw Size / Max Depth mm	Track Width (W3) mm	Track Height (H2) mm	Basic Static Load Rating Co N
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	
# BWU30-60	30.00 <i>1.181</i>	12.00 <i>0.472</i>	60.00 <i>2.362</i>	14 / - / 25 / -	M3 x 3.5 (4)	34 <i>1.339</i>	3.5 <i>0.138</i>	18 <i>0.709</i>	7.5 <i>0.295</i>	3180
# BWU30-75	30.00 <i>1.181</i>	12.00 <i>0.472</i>	75.00 <i>2.953</i>	14 / - / 55 / 25	M3 x 3.5 (8)	46 <i>1.811</i>	3.5 <i>0.138</i>	18 <i>0.709</i>	7.5 <i>0.295</i>	3910
# BWU40-60	40.00 <i>1.575</i>	14.00 <i>0.551</i>	60.00 <i>2.362</i>	20 / - / 40 / -	M4 x 4.5 (4)	46 <i>1.811</i>	4.5 <i>0.177</i>	24 <i>0.945</i>	8.5 <i>0.335</i>	3440
# BWU40-80	40.00 <i>1.575</i>	14.00 <i>0.551</i>	80.00 <i>3.150</i>	20 / - / 40 / -	M4 x 4.5 (4)	62 <i>2.441</i>	4.5 <i>0.177</i>	24 <i>0.945</i>	8.5 <i>0.335</i>	4970
# BWU40-100	40.00 <i>1.575</i>	14.00 <i>0.551</i>	100.00 <i>3.937</i>	20 / - / 80 / 40	M4 x 4.5 (8)	38 <i>1.496</i>	4.5 <i>0.177</i>	24 <i>0.945</i>	8.5 <i>0.335</i>	6110
# BWU60-60	60.00 <i>2.362</i>	16.00 <i>0.630</i>	60.00 <i>2.362</i>	36 / - / 40 / -	M4 x 5.0 (4)	54 <i>2.126</i>	5.0 <i>0.197</i>	42 <i>1.654</i>	10 <i>0.394</i>	4930
# BWU60-80	60.00 <i>2.362</i>	16.00 <i>0.630</i>	80.00 <i>3.150</i>	36 / - / 40 / -	M4 x 5.0 (4)	66 <i>2.598</i>	5.0 <i>0.197</i>	42 <i>1.654</i>	10 <i>0.394</i>	6780
# BWU60-100	60.00 <i>2.362</i>	16.00 <i>0.630</i>	100.00 <i>3.937</i>	36 / 23 / 80 / 40	M4 x 5.0 (8)	32 <i>1.260</i>	5.0 <i>0.197</i>	42 <i>1.654</i>	10 <i>0.394</i>	8630
# BWU60-120	60.00 <i>2.362</i>	16.00 <i>0.630</i>	120.00 <i>4.724</i>	36 / 23 / 80 / 40	M4 x 5.0 (8)	44 <i>1.732</i>	5.0 <i>0.197</i>	42 <i>1.654</i>	10 <i>0.394</i>	10500

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