

Standard Linear tables BB series

The tables manufactured by Meccanica Besnatese range from small to large-size systems, in compliance with standard instructions. Just as for manufacturing on third parties account, the company is ready to accomplish mass-produced work orders in a limited number up to single units.

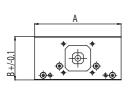
The components in use are purchased from the most qualified suppliers to offer customers a top-quality finished product for easy replacement.

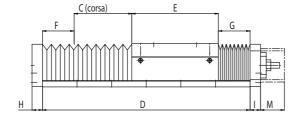
The tables included in the catalogue are generally used for positioning and handling light objects and if no high level of accuracy and rigidity is required, they can offer an excellent quality/price ratio.

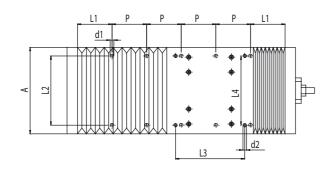


Precision linear tables, modular for X Y Z and multi-axis assembly

OVERALL DIMENSIONS







TYPE OF TABLE			Dimensions (mm)														
		A	В	С	D	E	F-G	Н	ı	L1	L2	Р	d1	L3	L4	d2	M
	100			100	360		55			60		4x60					
DD 450	200	150	75	200	460	150	55	18	18	110	120 4	4x60	6.5	120	120	M6	
BB 150	300	150	/5	300	600	150	75	10	10	60		4x120	0,0	120			
	400			400	700		75			50		5x120					Acc
	150) 80	150	440	180	55		20 20	70	150	4x75		150	150	M8	ordin
BB 180	250	180		250	540		55	20 20		120		4x75	8,5				According to the motor type
DD 100	350	100	00	350	680		75		115	130	3x150	0,5	130	100	IVIO	he m	
	450			450	780		75			90		4x150					otor
	200			200	550		55			75		4x100					type
BB 240	300	240	100	300	650	240	55	20	32	125	200	4x100	8.5	200	200	M8	
DD 240	400	240	100	400	800	240	80	20	JZ	100	200	6x100	0,5	200	200	IVIO	
	500			500	900		80			50		8x100					

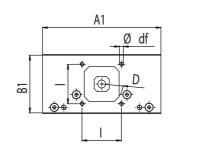
CONSTRUCTIVE FEATURES

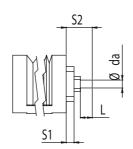
TYPE OF	S	Screw	Gui	des	Structure	Protections	
TABLE	Tipe	ø x pitch	Tipe	Size	ou dotal o		
BB 150		16x5		15			
BB 180	ball screw ground single nut pre-loaded	20x10	Single guides with ball sliding blocks	15	Aluminium alloy	Bellow	
BB 240		25x10		20			

Precision tables BB series

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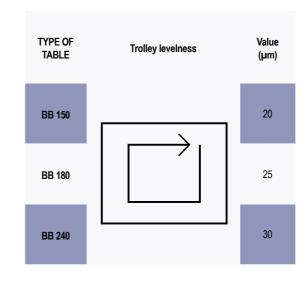
MOTOR SUPPORT CONNECTION





TYPE OF TABLE	A 1	B1	1	D	S1	S2	df	da	L
BB 150	150	73	50	54	10	33	M5	10	15
BB 180	180	78	64	63	15	47	M6	12	20
BB 240	240	98	80	85	22	60	M6	15	27

CONSTRUCTION TOLERANCE VALUES



Trolley side movement parall. or vertical	Travel mm	Accuracy micron
	< 150	15
	150 - 300	20
	> 300	25

Accessories and variants

- Motor support for direct assembly or indirect assembly by means of motion transmission gears
- Axis limit stor
- Customisation for assembling and fastening equipment

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SCREWS - FEATURES AND ADMISSIBLE LOADS

TYPE C	Diameter	Admissible load (N)		Axial	Accuracy	Repeatability mechanical	
TYPE OF TABLE	per pitch	C stat.	C dyn.	clearance	degree micron	accuracy	
BB150	16x5	8400	5600	0		10	
BB180	20x10	25000	0 14500 0 IT5 E/300=23		10		
BB240	25x10	31500	20500	0		10	

Screws are supported on both ends on all tables of the BB series.

SPEED

TYPE OF TABLE	Travel mm	n (r / min) max screw
	100	2400
DD 450	200	2250
BB 150	300	2100
	400	2000
	150	2600
BB 180	250	2500
BB 180	350	2400
	450	2300
	200	3200
DD 240	300	3100
BB 240	400	3000
	500	2900

The trolley traversing speed is proportional to the pitch (p:mm) and to the screw revolutions. The maximum values specified by the table (n=rev/min) consider the critical screw speed, according to the ø and free length between the constraints.

 $\frac{\text{n • p}}{60} \qquad \frac{2400 \times 10 = 400 \text{ mm/sec}}{60}$

LUBRIFICATION

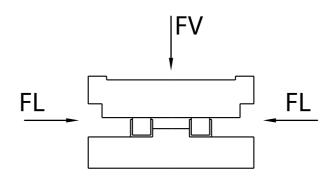
Screws and guides are properly lubricated at the time of assembly.

However, the system lubrication shall be checked at regular intervals. If necessary, restore initial conditions.

Centralised oil lubrication systems can be

installed on TV2/TV3 tables, upon request.

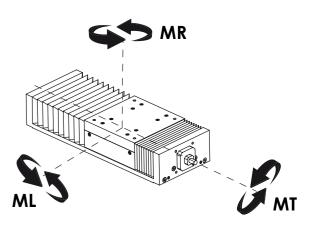
APPLICABLE LOADS (N)



	Admissible load (N)					
TYPE OF TABLE	FV = FL					
	Static	Dynamic				
BB 150	29000	15000				
BB 180	50000	27000				
BB 240	102000	58000				

APPLICABLE MOMENTS

	Admissible moments (Nm)							
TYPE OF TABLE	M	IT	ML=MR					
	Static	Dynamic	Static	Dynamic				
BB150	1560	660	1305	675				
BB180	2750	1485	2100	1134				
BB240	6120	3480	5059	2876				



WEIGHT OF TABLES

TYPE OF TABLE	Total weight of tables (Kg)									Trolley weight (Kg) and related
	Travel 100	Travel 150	Travel 200	Travel 250	Travel 300	Travel 350	Travel 400	Travel 450	Travel 500	parts
BB150	7,5		8,5		9,5		10,5			2
BB180		11		13		15		17		3
BB240			23		26		29		32	7





Certified according to EN 9100:2018, AS9100D, JISQ 9100:2016 ISO 9001:2015



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