

Large Precision Mechanical Lift Stages





HIGH RESOLUTION

25 KN WORM DRIVE

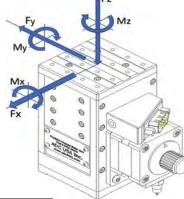
LARGE LOAD CAPACITY

LONG-LIFE LINEAR GUIDE BEARING SYSTEM

126 Ridge Rd, Lansing NY, 14882 www.adc9001.com ADVANCED DESIGN CONSULTING USA, INC. 1-607-533-3531 adc@adc9001.com

BJ25 SERIES SPECIFICATIONS

The BJ25 series jacks provide an accurate and rigid platform for use in any positioning system. The rugged anodized aluminum housing features a precision ground base and top plate, each with multiple utility holes for easy integration into the users' system. The vertical stage is driven by a high class preloaded ball screw coupled to a high torque 200 step per revolution stepper motor, which can be run in full, half, or micro stepping mode to meet your resolution requirements. Maximum rigidity is assured using preloaded crossed roller linear bearings. Each jack also features two adjustable, normally closed limit switches at the end of travel.



KEY FEATURES

- Travels 50-200mm
- 3 μm Repeatability
- Various Motor Options
- High Resolution
- High Dynamic Performance

LOAD CHARACTRERISTICS						
Description	Fx	Fy	Fz	Mx	My	Mz
Description	(kN)	(kN)	(kN)	(Nm)	(Nm)	(Nm)
BJ25-50	20	20	24.5	745	745	1000
BJ25-100	26.7	26.7	24.5	745	745	1335
BJ25-150	33.5	33.5	24.5	745	745	1675
BJ25-200	40.1	40.1	24.5	745	745	2005

*Loads are not simultaneous

MECHANICAL

Description	50	100	150	200
Travel (mm)	50	100	150	200
Optional Linear Encoder	Yes	Yes	Yes	Yes
Repeatability (um RMS)	3	3	3	3
Lead Accuracy (um/25mm)	8.3	8.3	8.3	8.3
Trajectory Straightness (um/25mm)	10	15	15	20
Travel Resolution (mm/rev)	6.35	6.35	6.35	6.35
Maximum Speed (mm/sec)	5	5	5	5
Load Capacity (kg)	2268	2268	2268	2268
Mass (kg)	76.2	85.4	94.6	103.8

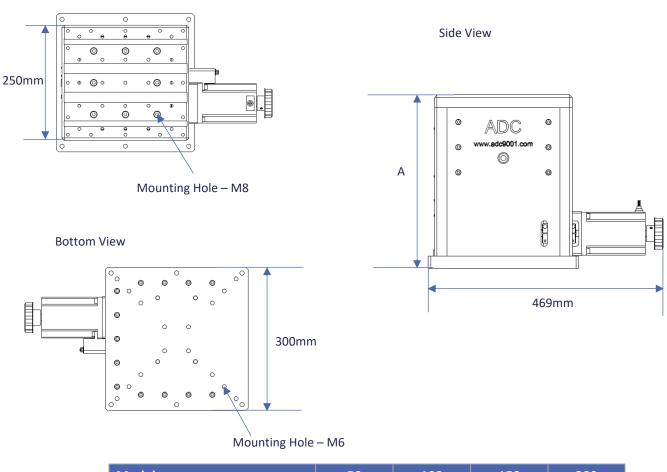
ELECTRICAL

Description	
Motor	2-Phase, 5-Phase Stepper; DC
Limit Switches	Mechanical, Normally Closed
Optical Encoder Type	Renishaw Tonic (http://www.renishaw.com)
2-Phase Current (Amps/Phase)	6.3



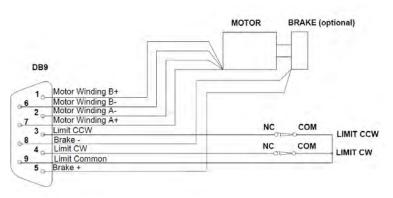
BJ25 SERIES DIMENSIONS AND INFORMATION





Model	50	100	150	200
Travel (mm)	50	100	150	200
A- Closed Height (mm)	345	410	475	540

ELECTRICAL CONNECTOR



ADC uses a standard male DB-9 Connector for both the motor and limit switches.



BJ25 ORDERING INFORMATION

BJ25	-50	-N	-2РН	-G
Series	Model	Encoder	Motor	Gearbox
BJ25	-50	-E	-2PH	3:1
	-100	-N	-5PH	to
	-150		-DC	100:1
	-200			ratio

Travel Options

-50	50mm Stage Travel
-100	100mm Stage Travel
-150	150mm Stage Travel
-200	200mm Stage Travel

Optical Encoder Options

-Е	With Optical Encoder
-N	Without Optical Encoder

Motor Options

-2PH	Standard 2 Phase Bi-Polar Stepper Motor
-5PH	5 Phase Stepper Motor
-DC	DC Motor

Gearbox Option

Available from 3:1 to 100:1 ratios

Example Order

BJ25-50-N-2PH This is an order for a BJ25 Precision Crossed Roller Jack with 50 mm travel, with no encoder, and a <u>2-phase motor</u>.



Similar ADC Products

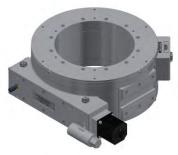




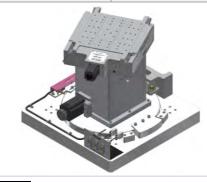


Linear Stages	Lift Stages		
DS210	DJ210		
DS310	DJ310		
DS410	DJ410		
DS510			
Tilt Stages/	Dotation Stages		
Goniometers	Rotation Stages		
TS-50	RS-100		
TS-90	RS-200		
TS-160	RS-300		
TS-300	RS-400		
TS-400	RS-500		
Mounting Prockets	Big Jacks		
Mounting Brackets	(Shown)		
MB200	BJ25-50		
MB300	BJ25-100		
MB400	BJ25-150		
	BJ25-200		









Custom Complex Motion Systems

For custom complex motion systems, contact ADC at adc@adc9001.com or visit our website www.adc9001.com



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