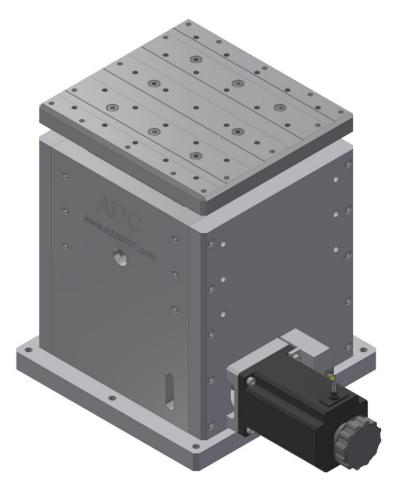


Large Precision Mechanical Lift Stages





HIGH RESOLUTION

25 KN WORM DRIVE

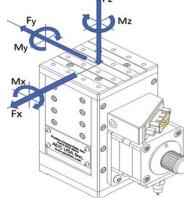
LARGE LOAD CAPACITY

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 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

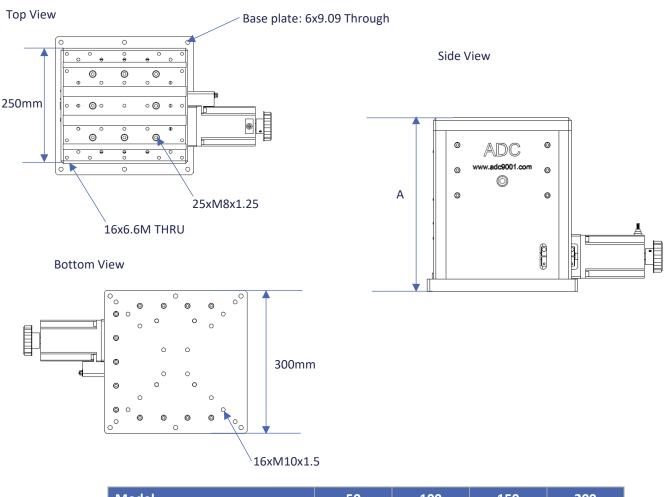
Description	50	100	150	200
Travel (mm)	50	100	150	200
Optional Linear Encoder	Yes	Yes	Yes	Yes
Repeatability (um RMS)	3	3	3	3
Lead Accuracy (um/25mm)	8.3	8.3	8.3	8.3
Trajectory Straightness (um/25mm)	10	15	15	20
Travel Resolution (mm/rev)	6.35	6.35	6.35	6.35
Maximum Speed (mm/sec)	5	5	5	5
Load Capacity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

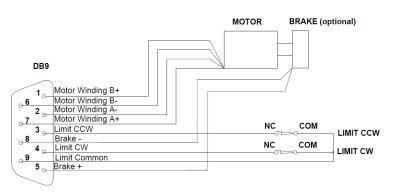


BJ25 SERIES DIMENSIONS AND INFORMATION



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 <u>no encoder</u>, and a <u>2-phase motor</u>.



Similar ADC Products

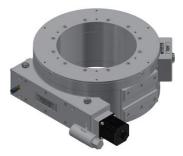




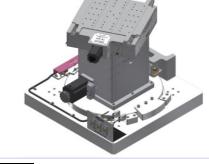


Linear Stages	Lift Stages
DS200	DJ200
DS300	DJ300
DS400	DJ400
DS500	
Tilt Stages/	Rotation Stages
Goniometers	Notation Stages
TS-50	RS-100
TS-90	RS-200
TS-160	RS-300
TS-300	RS-400
TS-400	RS-500
Mounting Prockets	Big Jacks
Mounting Brackets	(Shown)
MB200	BJ25-50
MB300	BJ25-100
MB400	BJ25-150
	BJ25-200









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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