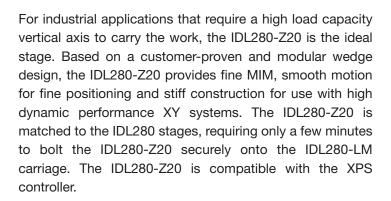
Industrial Vertical Stage

IDL280-Z20





Contact Newport for other travels or sizes.

DESIGN DETAILS

Material	Anodized Aluminum
Bearings	Double row recirculating ball bearings
Drive Mechanism	Precision ball screw 2 mm pitch
Reducer	Belt gear 1÷4 + Wedge 1÷2
Feedback	Screw mounted rotary encoder 5000 cts/rev, index pulse
Limit switches	Optical
Origin	Optical, at center of travel, including mechanical zero signal
Cable	MMCABLE-3 standard 3-meter cable

LOAD CHARACTERISTICS AND STIFFNESS

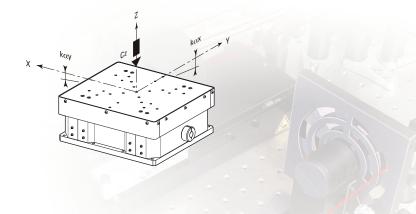
Cz, Normal center load capacity on bearings	500 N
kax, Compliance in roll	10 μrad/Nm
kαy, Compliance in pitch	10 μrad/Nm



- Built for industrial applications
- Up to 500 N load capacity
- Stiff construction
- Fine positioning

SPECIFICATIONS

Travel Range	20 mm
Minimum Incremental Motion	0.1 µm
Uni-directional Repeatability, Guaranteed	±0.1 μm
Bi-directional Repeatability, Guaranteed	±0.6 μm
Accuracy, Guaranteed	±2 μm (over full travel)
Encoder Resolution	50 nm
Max. Speed	5 mm/s
Roll, Guaranteed	±50 μrad
Pitch, Guaranteed	±50 μrad
Total mass	32 lb (14.5 kg)





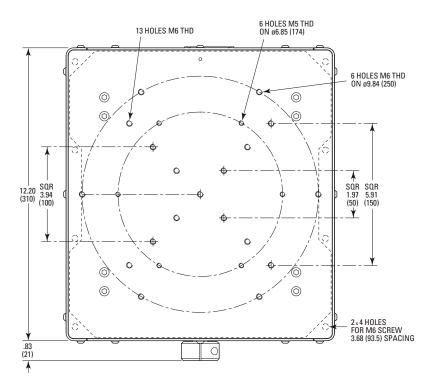
RECOMMENDED CONTROLLERS/DRIVERS

Model	Description
XPS-D	1- to 8-axis universal high-performance motion controller/driver
XPS-DRV11	Universal digital driver card for stepper, DC and direct motors
XPS-RL	1- to 4-axis universal high-performance motion controller/driver
XPS-DRV01	PWM drive module for DC brush and stepper motors, 3 A/43 V max.

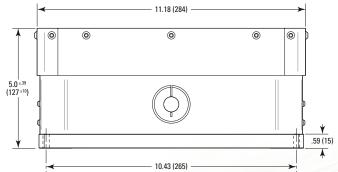
ORDERING INFORMATION

Model	Description
IDL280-Z20	Industrial Vertical Stage

DIMENSIONS







MODEL SHOWN: IDL280-Z20



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