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DANAHER

NanoSlide-20™ Linear Motor Stage

Features

- Compact, low profile, direct drive stage
- Stationary connectors: no moving cables
- Smooth, stiff crossed roller ways
- High performance, single phase linear motor
- Resolutions from 5 nanometers to 1 micron
- Units stack directly to form X-Y assemblies





Linear Motor Table

Danaher Precision Systems' NanoSlide-20 linear motor table is a very compact, high performance, direct drive stage suitable for use in a wide range of applications, including photonic alignment and automation. The integral, center drive linear motor features an advanced magnetic design that supports up to 3G acceleration and 44N force generation and its single phase coil allows the use of simple brush type amplifiers.

The NanoSlide-20 stage has a very low profile of 35mm and with overall dimensions of only 150mm square. Two of these stages bolt directly together to form a very stiff, compact X-Y assembly, without the need for adapter plates.

The NanoSlide-20 table uses a unique moving magnet, moving encoder design, which locates all electrical connectors in the stationary stage base.

The resulting absence of moving cables is clean and compact and eliminates motion errors due to cable forces. The precision ground crossed roller ways provide high stiffness together with smooth motion, and are capable of supporting torques due to offset loads.

Cage creep is eliminated through the use of geared cage assemblies. The built-in encoder is available with resolutions of 1 micron and 0.1 micron, which are directly output in digital quadrature format together with a unique index output. For high resolution applications, an analog sine/cosine output version supports 5 nanometer resolution.

NANOSLIDE-20 LINEAR MOTOR SPECIFICATIONS

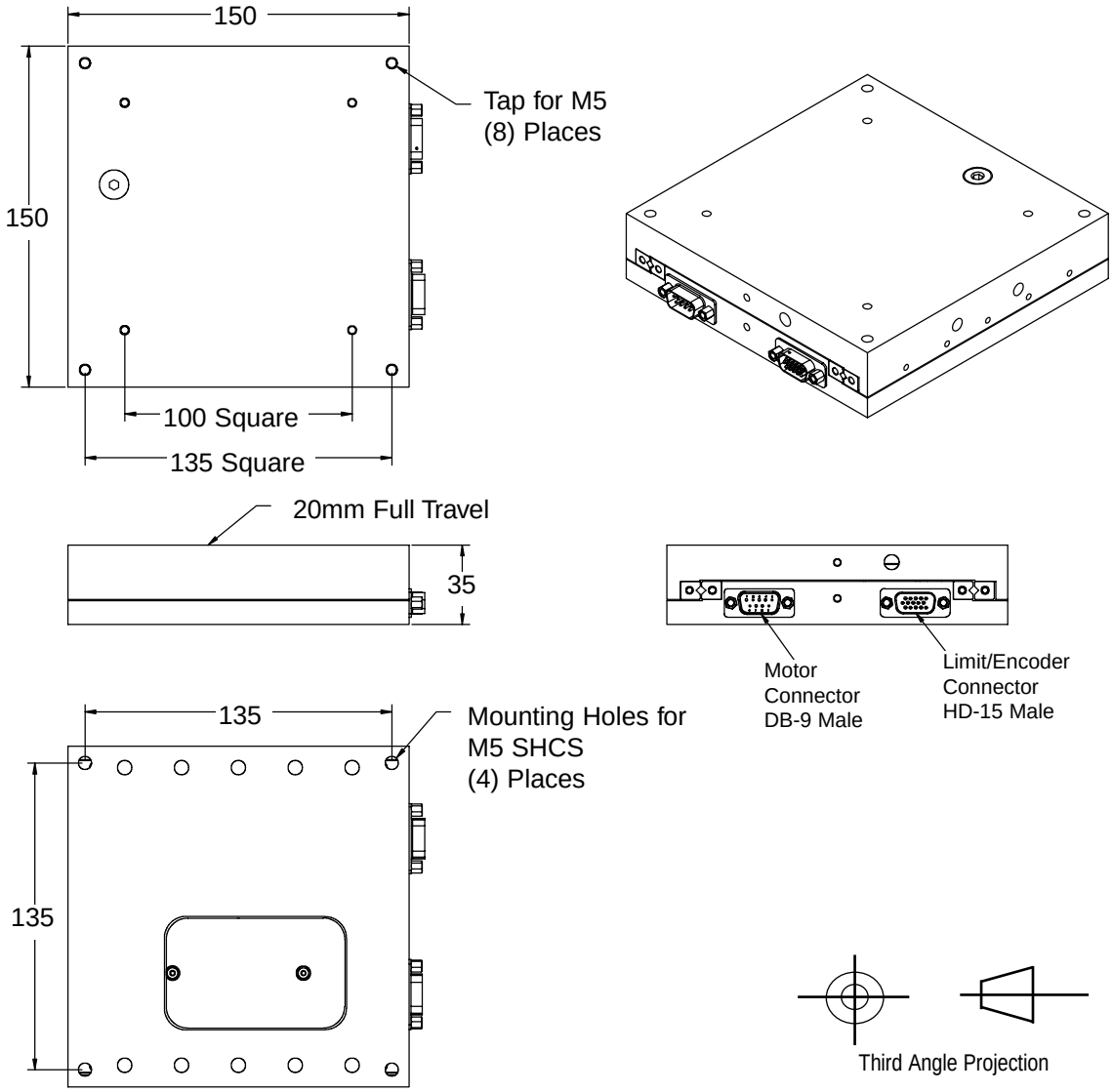
Specification	
Travel	20 millimeters
Accuracy	4 microns
Resolution	1 micron, 0.1 micron, 5 nanometers
Repeatability	+/- 1 count (for 5 nanometer resolution, repeatability ±25 nanometers)
Maximum Acceleration	30 m/sec^2
Load Capacity	15 kg
Moving Mass	1.2 kg
Total Mass	2.4 kg
Fundamental Motor Constant	3 N / $\sqrt{Watt}$
Motor Force Constant	5.5 N/A
Back-emf Constant	5.5 V/m/s
Coil Resistance	3.5 Ohms
Coil Inductance	1.5mH
Continuous Current	2.75 Amps
Peak Current	8.0 Amps
Continuous Force	15N
Peak Force	44N
Continuous Power Rating	25 Watts
Thermal Resistance	3.2° C/W
Pitch & Yaw	<5 arc seconds
Straightness & Flatness	<500 nanometers

Danaher Precision Systems

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NanoSlide-20™ Linear Motor Stage

NANOSLIDE-20 LINEAR MOTOR SPECIFICATIONS



Moving The World, One Nanometer At A Time.™

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