

LCR13 Series

Linear Rotary Actuator

A stackable, compact direct-drive brushless servo motor with only 13mm in width. The precision Z-theta motion within one small actuator, providing a convenient pick, orient and place.

The vacuum-built-in shaft through the rotary motor is available to prevent dust build-up in the unit. The LCR13 can easily be programmed to control force/torque, position and velocity in both axes at the same time with feedback capability.

Patented SMAC's unique "Soft-Land" function enables the unit to gently land on a delicate component with a controlled force to avoid damage of both the component and the pick and place head.

SMAC

Moving Coil Actuators

LCR13 Series

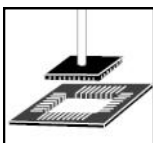
Dimensions [mm]:	75 x 155 x 13
Stroke [mm]:	25 (+1/-0)
Peak Force [N]:	7 @ 3A
Linear Encoder Resolution [µm]:	5 standard, 1 optional
Peak Torque [Nm]:	0.047 (24VDC)
Rotary Encoder Resolution:	6K or 24K/Rev



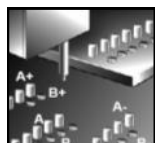
Applications



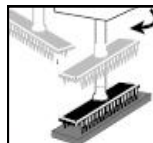
Pick, Orient & Press



IC Handling



Gauging & Sorting Parts

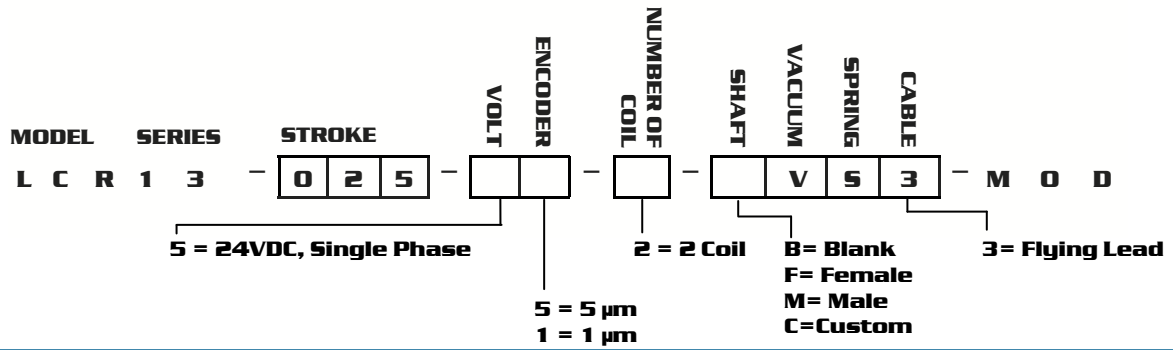


High Resolution Rotary



Chip Bonding

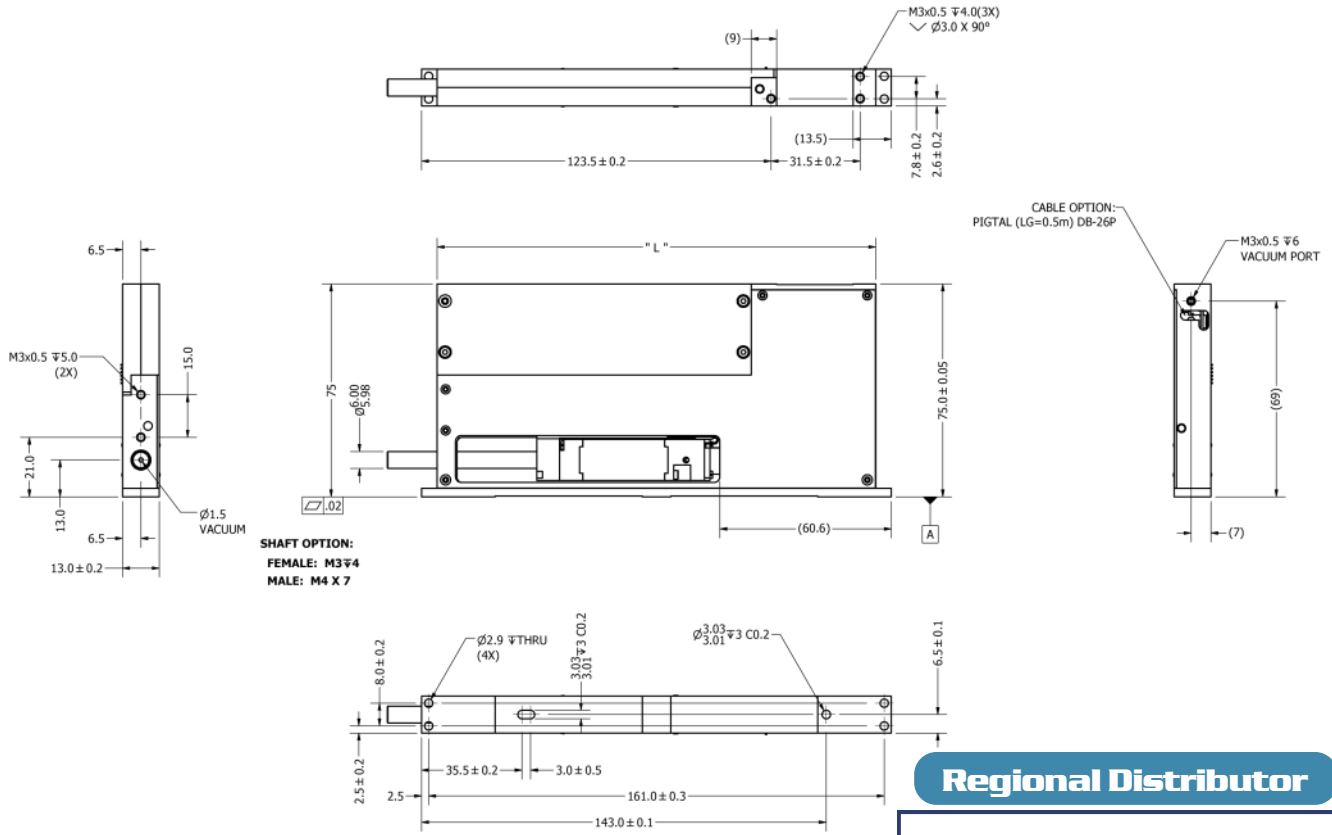
PART NUMBERING



SPECIFICATION

Model	Voltage [DC]	Size: LxWxH [mm]	Stroke [mm]	Peak Force [N]	Cont. Force [N]	Force Constant [N/A]	Max. Current [Amp]	Moving Mass [kg]	Weight [kg]	Peak Torque* [Nm]	Rotary type	Rotary Encoder Resolution	Velocity* [rpm]
LCR13-025-55-2	24	115x75x13	25	7	2.8	2.5	3	0.095	0.42	0.047	direct	6K/24K	1K

DIMENSIONS (LCR13 Series)



Regional Distributor



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Specifications subject to change without notice.