# **Linear Rotary Axis (ZU40)**



### Overview

The ZU40 is a compact high precision actuator for linear and rotary motion. Designed to be combined with the HG60 gantry to give full 4 axis motion.

The fast and compact ZU40 range has feature such as payloads of up to 2kg and velocity of 700 mm/s with repeatability 0.01 mm.

### **Key Features**

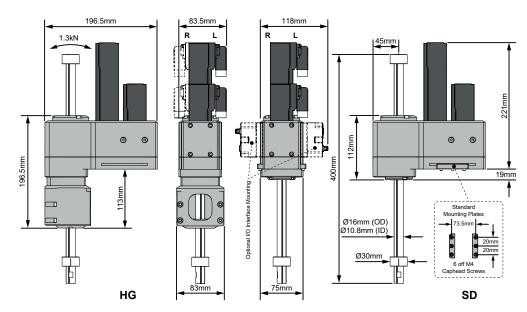
- Designed for high precision, high load, continuous operation with highly accurate positional repeatability.
- 100% duty cycle.
- Multi-turn absolute encoders & endless rotation
- Fully independent vertical and rotational motion.
- Hollow shaft maximises functionality of tooling attachment.
- Available with standard and HG60 mounting adapters.
- Plug & Play via supplied Easy Teach Software. All units are supplied pre-tuned.
- · Zero-maintenance bearings.



### **Specification**

# ZU40 MOUNT SD - Standard HG - To fit GD-HG80 CABLE ENTRY L - Left side R - Right side

- ZU40-SD-L: Standard mounting kit, left hand side (when viewed on front face) cable entry.
- ZU40-HG-R: Standard mounting kit, right hand side (when viewed on front face) cable entry.

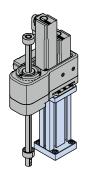


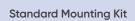
### Specification (continued)

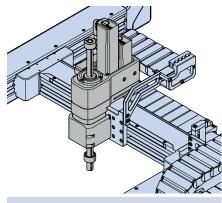
DRIVE TYPE	Twin servo motor belt drive	MAXIMUM PAYLOAD (kg)	2.2
ENCODER TYPE	Multi-turn absolute encoder	MAXIMUM VERTICAL ACCELERATION (m/s²)	23.4
SHAFT TYPE	Hollow shaft	MAXIMUM VERTICAL SPEED (mm/s)	700
SPINDLE TYPE	Ball-screw spindle	MAXIMUM ROTATIONAL ACCELERATION (°/s²)	21000
Z-AXIS STROKE (mm)	150	MAXIMUM ROTATIONAL SPEED (°)	700
AXIS ROTATION	Endless	ROTATIONAL REPEATABILITY (°)	± 0.02
PERMANENT PRESSING FORCE (N)	93	MASS (kg)	4.7

## **Mounting Options**

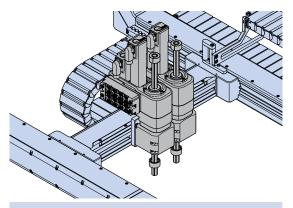
The ZU can be supplied with a standard mounting kit for general purpose mounting, or with an adapter to suit mounting on a HG60 Planar Surface Gantry. Due to it's compact size, multiple ZU's can be mounted in close proximity, allowing for maximum flexibility.







**HG60 Mounting** 



HG60 Twin Mounting with Optional I/O Interface





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