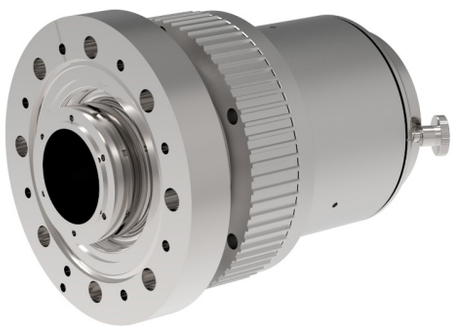
Hollow MagiDrive Series



MD63H Series

(CF64, 4.5" OD Flange)

The MD63H MagiDrive provides high torque rotation through a high stiffness coupling. This drive would be ideally suited to robot type or platen rotation applications. The MD63H has an adjustable rear flange enabling rotation of position prior to fixing. For higher torque applications (up to 40Nm) see MD64LBM & MD100H technical datasheets.

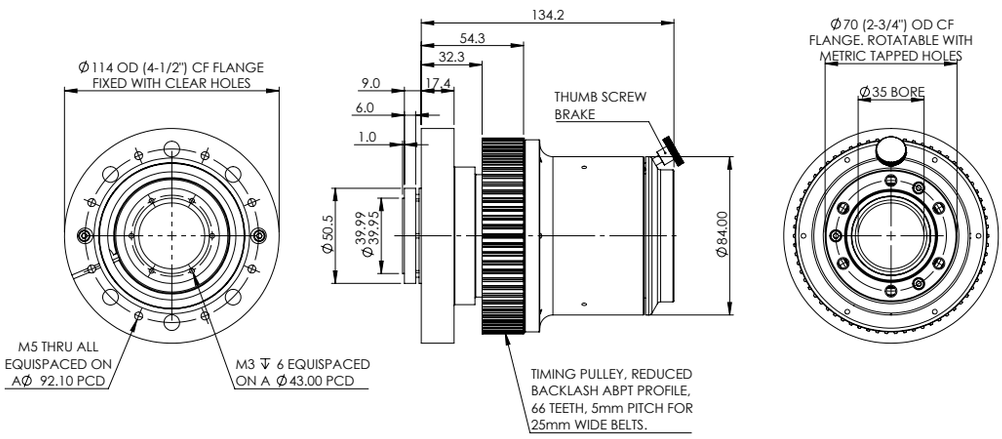
MD63 KEY ADVANTAGES

- » Magnetically-coupled fail-safe design
- » High torque 25Nm
- » No bellows or dynamic seals
- » Bakeable to 250°C
- » Zero backlash under low load
- » True UHV performance

The production-proven MagiDrive range of rotary feedthroughs enable rotation to be transferred into a vacuum system using a stiff high flux magnetic coupling. With no bellows, fluids or dynamic seals, the MagiDrive range offers reliable and totally leak-tight UHV operation.

Example Dimensions (mm)

For comprehensive 2D drawings & 3D models please contact us.



MD63H Technical

SPECIFICATION	VALUE
System mounting flange size	FC64 (4 1/2") with clear holes
Rear flange option	FC38 (2 3/4") with tapped holes (rotatable)
Drive clear bore	35mm (rear flange option)
Magnetic breakaway torque	25Nm
Magnetic coupling stiffness	2.9 Nm/degree
Bakeout temperature	250°C with motor/pneumatic cylinder removed
Shaft options	spigot flange
Shaft radial runout at shaft attachment	0.1mm
Maximum radial load	900N
Maximum axial load	250N
Calibrated thimble option - resolution	1 degree
Pulley option - type and PCD	AT profile 66 teeth 5mm pitch and 105.04 PCD
Pneumatic option - cylinder sweep	adjustable 30 to 170 degrees
Pneumatic option - cylinder bore	32 mm
Pneumatic option - cylinder fitting	6mm tube push fit
Pneumatic option - cylinder switch	100mA micro switch
Pneumatic option - max rotation speed	0.2 seconds per 90 degrees (dependant on load)
Stepper motor option	23 frame 8 wires 3.9A / phase
Standard stepper option - motor wiring	M12 5 PIN
Upgrade stepper motor option - switches	Panasonic slotted opto 5-24V PNP, pre-wired
Side-mounted Stepper motor max speed option 1, output torque & resolution per 1/2 step	150 rpm, 3.2Nm and 0.096 degrees
Side-mounted Stepper motor max speed option 2, output torque & resolution per 1/2 step	75 rpm, 6.5Nm and 0.048 degrees
Side-mounted Stepper motor max speed option 3, output torque & resolution per 1/2 step	30 rpm, 14.8Nm and 0.0192 degrees
Side-mounted Stepper motor max speed option 4, output torque & resolution per 1/2 step	15 rpm, 25Nm and 0.0096 degrees
DC motor option	24V dc brushed geared motor
DC motor option - motor wiring	2 pin generic plug to diagram WD-010
Side mounted DC motor speed option 1	230 rpm, 1.8Nm
Side mounted DC motor speed option 2	92 rpm, 4.6Nm
Side mounted DC motor speed option 3	46 rpm, 8.4Nm
Side mounted DC motor speed option 4	23 rpm, 16.8Nm

For more information:

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