L R M - Linear Rotating Magnetic coupled manipulator

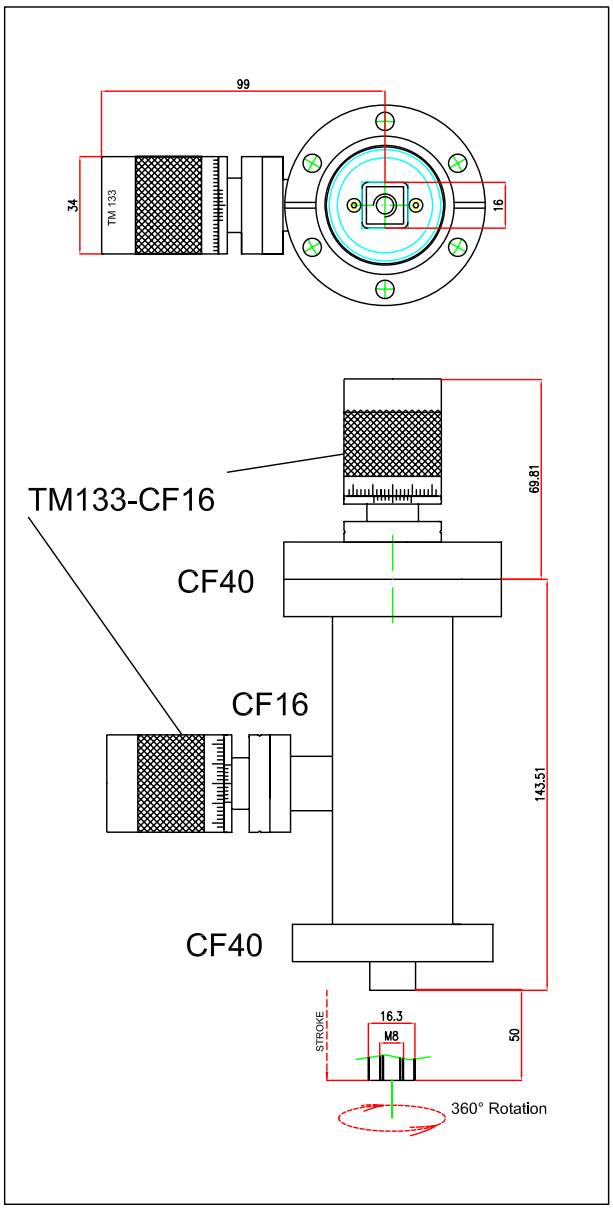
* FULLY BAKEABLE TO 300 °C
* 360° CONTINUOUSLY ROTATABLE
* MOUNTING IN ANY ATTITUDE
* OPERATING VACUUM 2.10*-11mbar

LRM is composed by two modules:

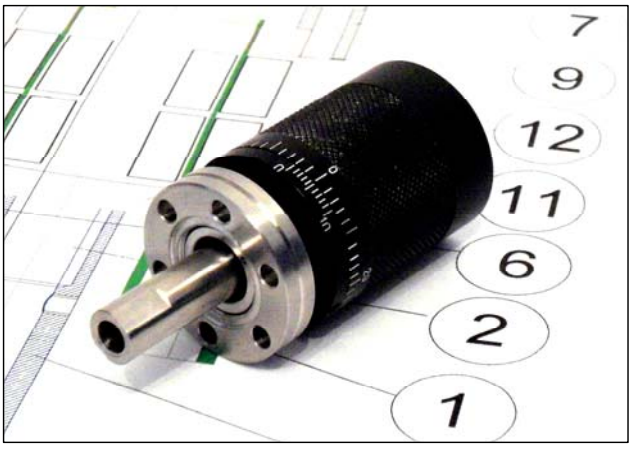
- linear translator
- rotary drive

Each module is moved indipendently by an all metal magnetic rotary drive mod TM133. Low backlash drive provides continuous slipping and rotation of the 16mm square shaft.
Linear travel can be choosen from 50mm to 250mm.
A position lock is fitted.
Accessories and services, such as DC motor , step motor, encoder, microswitches are frequently comprised in the manipulator's configuration.
No bellows are used, so the life is about 24 000 hour without service.

LRM-CF40 Model	
Mounting flange	CF40ID
Break-away torque	8Nm
Maximum speed	100rpm
Maximum shaft axial thrust	30N
Bakeout	300°C
Zero-backlash under low load	
Stroke : 50, 100, 200, 300mm	
Special and custom variants available please contact sales	



LRM-50 Manually operated-Code TM350

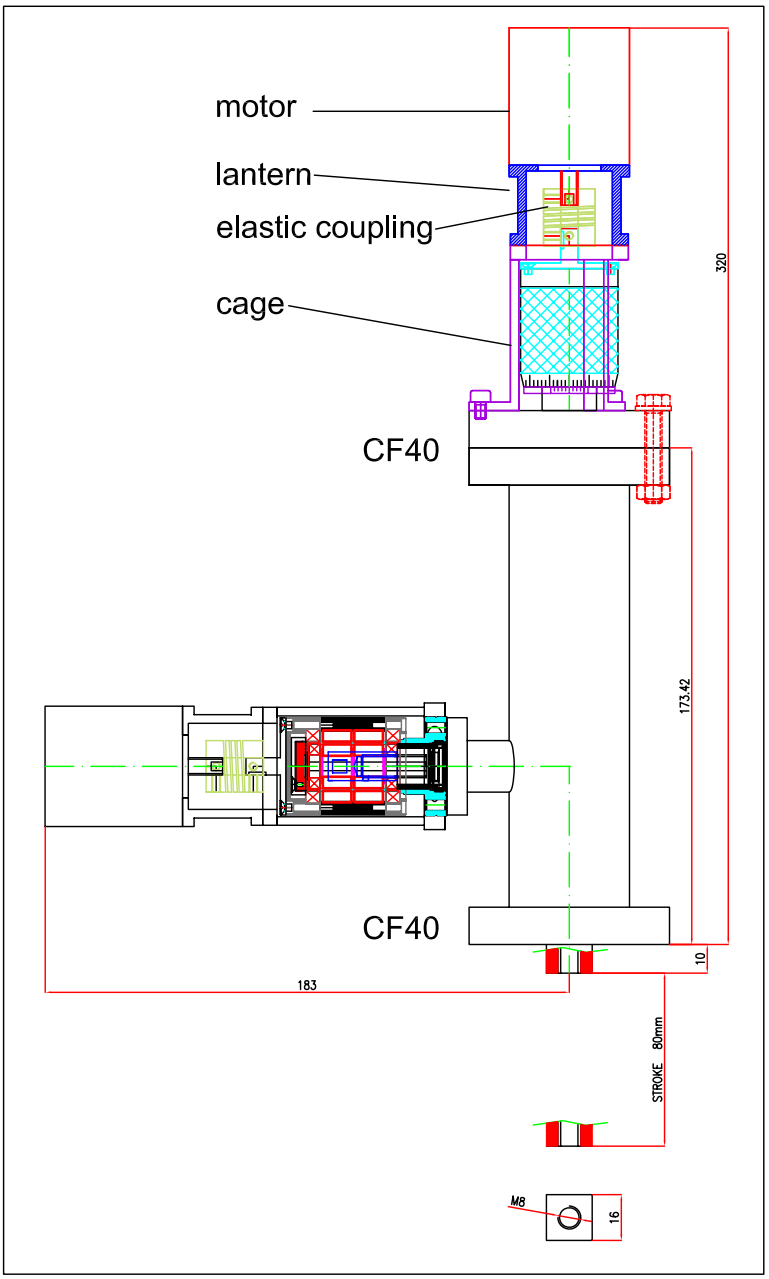


TM133-CF16 Magnetic Rotary Drive

ML-50 Magnetic Linear traslator

MOTORISATION

To improve movement quality the Magnetic rotary drive M34 are motorized with a DC-Motor. A simple solution with DC GearMotor is proposed:the module is a small, front panel mounted, lowprice motor driver. VACUO DC-Controller is designed to drive 24V DC Gearmotor (Imax 4A). Housed in a rack metal case the device is very easy to use. Universally rated to ensure voltage compatibility,the controller is fully compliant with EMC regulations.The controller provides a bi-directional output to drive a single axis motorized in either direction. Spin direction is triggered by an electronic shunter. Speed motor is selected by a 10-turnspotentiometer.Following the applications many types of motor and drive unit can be fitted to our manipulation equipment.



LRM-80 Step Motor operated

TM133-CF16 Magnetic Rotary Drive linked with CF16/CF40 Channel Rot Mag set with lantern

TM133 Mod
CF16 Magnetic Rotary Drive
with DC Motor

VACUO
ULTRA HIGH VACUUM
CRYOGENICS ENGINEERING

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