MAGNETIC LINEAR AND ROTARY MOTION DRIVE (MLRM)

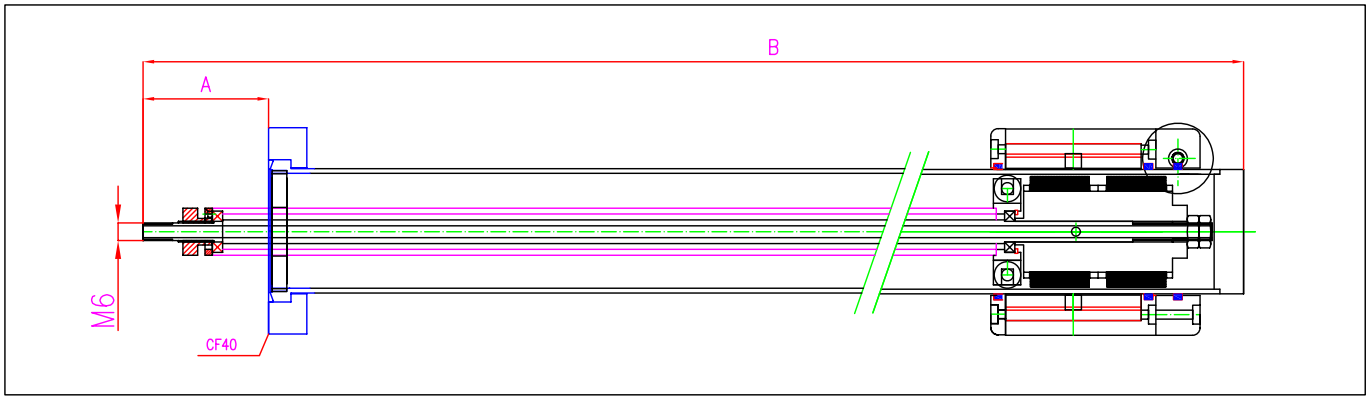
VERY HIGH TORQUE
LOW OUTGASSING
ULTRA HIGH VACUUM
INSTALLATION IN ANY POSITION
BAKEOUT TO 300 °C
BLOCK BRAKE

MLRM drivers are used for applications that require combined rotary and linear movements.
The coupling is magnetic and the shaft is mounted in bearings that allows it to move in both a linear and rotational direction.
The inside mechanism is fully demontable.

At the end of the in vacuum shaft an M6 male thread is mounted into which sample carrier or other customer device can be mounted.
The drive handle slides up and around the body tube and can be locked by a screw clamp attached on the handle assembly

MLRM Model		**600**	**750**	**1000**
Rotational speed	rpm	50		
Torque	N.m	2.2		
Axial force	N	50		
Bakeout temperature	°C	300		
Pressure range	mbar	10^{-11}		
Stroke	mm	600	750	900
A	mm	82	82	82
B	mm	913	1163	1313
ORDER CODE		**TM010**	**TM011**	**TM012**

Transfer fork



MAGNETIC LINEAR , ROTARY AND 22° STERADIAN ANGLE TILT MOTION FEEDTHROUGH MOD. MMRLT

VERY HIGH TORQUE
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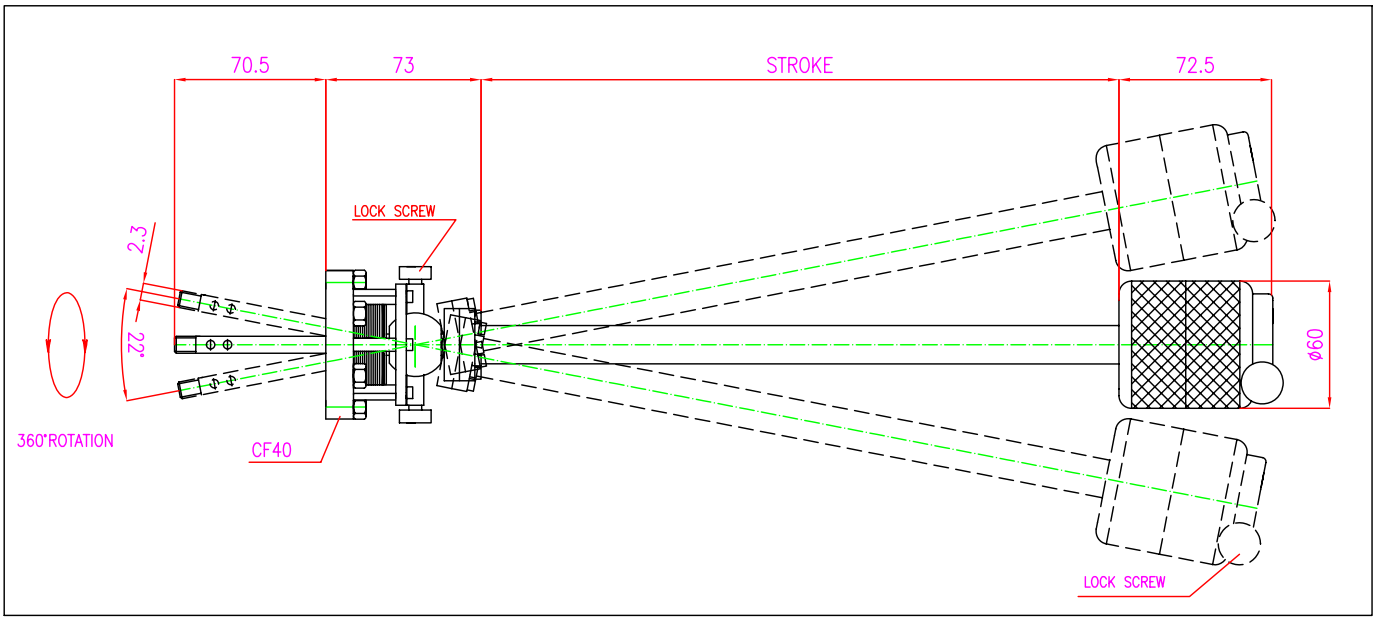
INSTALLATION IN ANY POSITION
BAKEOUT TO 300°C
BLOCK BRAKE
TILT STOP

The linear and rotary motions are achieved by means of a magnetic coupling between a magnet placed outside the vacuum vessel and a magnetic mass fixed axially to the feedthrough.The tilt of 22° steradian angle is realized by handling the control knob into a mechanical spherical body. The inside parts are all-metal and surface treated to lower the outgassing.
No bearing are used and the bakeout can reach 300°C without dismounting the knob.The connection to vacuum vessel is made by means of CF40 flange.
The shaft of the MMRLT ends with a M8 screw to which a sample holder attachement can be fitted.

Mod.MMRTL locked at 11°angle tilt

Mod.MMRTL		22-200	22-300	22-400
Speed	rpm	50	50	50
Torque	N/m	1.9	1.9	1.9
Axial force	N	35	35	35
Bakeout temperature	°C	350	350	350
Operational temperature	°C	250	250	250
Weight	Kg	1.7	1.7	1.7
Stroke	mm	200	300	400
ORDER CODE		TM001	TM002	TM003



VACUO
ULTRA HIGH VACUUM
CRYOGENICS ENGINEERING

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