

DATA SHEET - M-RMD40(#)-###-##

Dual Shaft Magnetic Linear / Single Rotary Sample Transporter DN40CF

Introduction

The M-RMD40 is an all metal sealed, linear-rotary feedthrough with independent rotation of the inner shaft. It's main purpose is to transport samples between UHV chambers. The independent rotary motion can be used to operate a sample locking mechanism or to rotate the sample carrier platform. The square shaft makes this feedthrough especially sturdy. A set of rare earth magnets on the air and vacuum side provides the necessary force to ensure a rigid coupling from the handle to the shaft. All ball bearings are Dicronite (W-disulfide) dry lube coated. On request, the M-RMD can be built with SiC ceramic hybrid ball bearings.

Pincer grips fitted to the M-RMD40 are oriented vertically. For horizontal orientation of the pincer, see M-RMD40(H).

Specifications:

Materials	
	All UHV compatible
Vacuum Range	
CF flanged	atm to 1x10 ⁻¹¹ mbar
Temperature Range*	
CF flanged	-196 to 150°C
Load	
Linear force	70N typical
Torque	5Nm typical
Retracted Shaft Leng	jth
Dual shaft	50mm



Description	Part Code
Dual shaft single rotary magnetic transporter 300mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40-300-50
Dual shaft single rotary magnetic transporter 500mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40-500-50
Dual shaft single rotary magnetic transporter 750mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40-750-50
Dual shaft single rotary magnetic transporter 1000mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40-1000-50
Dual shaft single rotary magnetic transporter Xmm linear Ymm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40-X-Y
Dual shaft single rotary magnetic transporter horizontal 300mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40(H)-300-50
Dual shaft single rotary magnetic transporter horizontal 500mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40(H)-500-50
Dual shaft single rotary magnetic transporter horizontal 750mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40(H)-750-50
Dual shaft single rotary magnetic transporter horizontal 1000mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMD40(H)-1000-50
Dual shaft single rotary magnetic transporter horizontal Xmm linear Ymm retracted DN40CF (with dicronite coated ball bearings	M-RMD40(H)-X-Y





