

2000mm (80") stroke

Rev 1.0

A milling rail that is built for rigidity yet with lightweight aluminium rail, giving a 2 axis milling machine for all general purpose in-situ milling, but primarily designed for use on heat exchangers.



- **Precision lightweight construction**
- **Optional heat exchanger mount kit**
- **Hand feed to main axis; Auto feed optional**
- **Features ER40 Collet with ISO30 spindle optional**
- **Mounts directly to Mirage gantry mill (with reduced stroke)**
- **Pneumatic or hydraulic feed options**

This machine can also be utilised on pump and motor pads, steel mill stands, in ship building and on turbine split lines, along with its ability to be mounted to the Mirage Gantry rail kit.

The machine is supplied complete with toolkit including:

- Air filter lubricator and hose connection for pneumatic machines (when required)
- All required bolts and storage / shipping box, CE certificate, packing list and manual
- LMR1000-1 (Light Milling Rail with Manual Feed)
- MR 0400-4 (Pneumatic Milling Head with ER40 Collet Spindle) or MR 0400-2 (Hydraulic Milling Head with ER40 Collet Spindle)
- LMR1500-1-001 x4 (Milling Rail Hold Down Bracket)

## Technical Details

Linear Track Available - Max Stroke	2000mm	80"
Spindle Down Feed	95mm	3.75"
Alternate Milling Head Position on Carriage Plate	3 x 45mm increments	3 x 1.77" increments
Max Cutter Dia (ER40 Collet Spindle)	25mm	0.984"
Max Cutter Dia (Optional ISO 30 Spindle)	80mm	3.15"
<b>Pneumatic</b>		
Pneumatic Flow Required	1800L/Min	63.6 CFM
Pneumatic Pressure Required	6 Bar	87 psi
Approx. Pneumatic Output	1.7 kW	2.27 hp
Max Pneumatic Spindle Speed	655 RPM	
Pneumatic Auto Feed Motor Output (Optional Extra)	0.8 kW	1.1hp
Auto Feed Motor Pneumatic Pressure Required	6 Bar	87 psi
Auto feed Motor Pneumatic Flow Required	1800L/Min	63.6 CFM
<b>Hydraulic</b>		
Hydraulic Flow Required	50l/Min	13.21 gal/min
Hydraulic Pressure Required	80-100 bar	1160-1450 psi
Approx. Hydraulic Output	3.73 kW	5 hp
Max Hydraulic Spindle Speed	615 RPM	
Hydraulic Auto Feed Motor Output (Optional Extra)	2.4 kW	3.2 hp
Auto Feed Motor Hydraulic Pressure Required	80-100 bar	1160-1450 psi
Auto Feed Motor Hydraulic Flow Required	20 L/Min	5.28 gal/Min

## Feed Rates

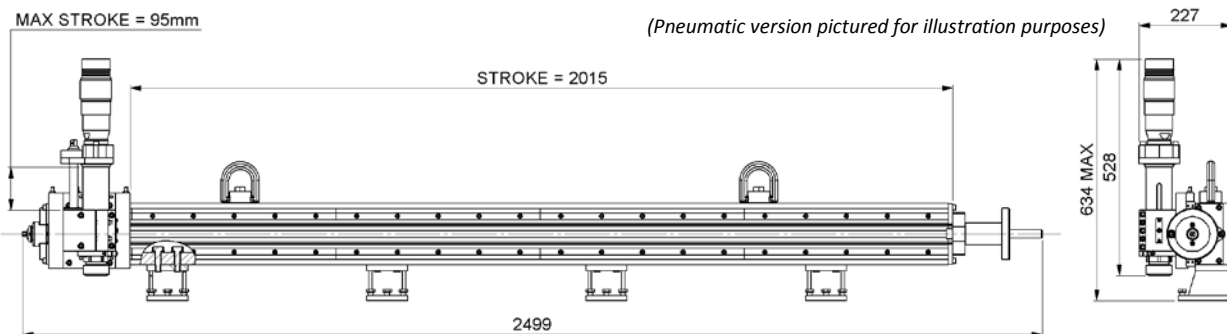
Hand Feed / Revolution	5mm/Rev	0.197"/rev
Max Pneumatic Auto Feed (Optional Extra)	106.5mm/Min	4.2"/Min
Max Hydraulic Auto Feed (Optional Extra)	105mm/Min	4.13"/Min

## Weights and Dimensions

Machine Weight	112kg	246 Lb
Shipping Weight	214kg	472 Lb

## Shipping Dimensions

Length		Width		Height	
mm	inches	mm	inches	mm	inches
2600	102.4	640	25.2	590	23.2



## Optional Accessories



**PP2 11 KW 3 Phase Power Pack**  
(For Hydraulic Machines Only)

60 L.P.M up to 90 BAR –  
proportional remote operation 24  
volt dc fully CE marked.

Featuring remote pendant, speed  
control stop/start and emergency  
stop, frame with lifting points and  
load test cert.



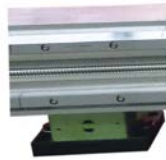
**Magnetic Mounts**

Fast set mounting system  
featuring switch magnet mounts  
for the Mirage range of 2 and 3  
axis milling machines and  
drilling and tapping machines.

The magnets will fix the  
machines to any steel surface  
and provide a means of fixing  
that requires no change to the  
work piece.



**LMR2000-2**  
Light Milling Head - ISO 30 Spindle  
with Adjustable Gear Ratios.  
Hydraulic or Pneumatic versions  
available.



**LMR2000-3 x4**  
Wedge Levelling Feet



**LMR2000-4**  
Pneumatic LMR Auto Feed Kit  
Or  
**LMR2000-8**  
Hydraulic LMR Auto Feed Kit



**LMR2000-6**  
Heat Exchanger Mount Plate



**LMR2000-11**  
End Mill & Collet Set ISO30



**Gantry Mill Kit**  
Provides 3-Axis milling  
capability. See separate data  
sheet for further information