Datasheet
Mechanical Fitment Stand

ECLIPSE MAGNETICS PRECISION

At A Glance

- Multiple position options
- Robust arms for optimising position
- Up to 295mm extension length
- Switchable magnetic base
- Up to 80kg (176lb) magnetic hold force

Mounting / Measurement Range

The Mechanical Fitment Stand is a multi-positional Fitment Arm addition to allow the user to mount their component (e.g. measuring device) and set it to the required location. It can be additionally connected to a switchable Magnetic Base.

The Magnetic Base has a maximum hold force of up to 80kg (176lb). Being switchable, the magnetic pull force from the Magnetic Base can be easily turned on or off simply by rotating the switch/toggle between its two positions.

The RP999 Mechanical Fitment Arm is just the Arm without any Magnetic Base. It has a M8 thread at the bottom to connect to either a Magnetic Base or another component (such as a machine) with a M8 threaded hole.

The E910 is the combination of both the E905WF Magnetic Base with Toggle Switch and the RP999 Mechanical Fitment Arm. The E905WF Magnetic Base has a M8 threaded hole so the M8 thread of the RP999 can screw directly into the Magnetic Base to give a secure attachment.

The RP999 Fitment Arm is 295mm long when fully extended. The FItment Arm can be tightened to secure its set position - the Fitment Arm is robust for secure location setting. When used with the Magnetic Base, the assembly pulls and clamps to ferrous surfaces with up to 80kg (176lb) holding force (depending on the material properties and the magnetic circuit) - simply toggle the switch to turn the magnetism off and back on again to allow a fast and easy repositioning of the Magnetic Base.

Benefits

- Robust Mechanical Fitment Arm
- Up to 295mm long when extended
- Simply tighten the connections to set and secure the required position
- Easily connected to a Magnetic Base
- Up to 80kg (176lb) holding force when used with a Magnetic Base

Materials

Magnetic Material	RP999 - N/A E910 - Proprietary Magnetic Assembly
Other Parts	Various, including Steel, Plastic

Performance

Magnetic Performance	Up to 80kg (176lb) pull force with Magnetic Base (E910 only) - see next page
Magnet Type	Switchable Magnetic Base (E910 only)
Temperature Range	-40°C to +80°C (-40°F to +176°F)

Maintenance

- There is no specific requirement to regularly inspect this item
- Cleaning of surfaces can be achieved using a cloth (bearing in mind any magnetic face could have sharp debris on it - check before cleaning)

Suitability

Suitable Products	Measurement and Lighting applications
Suitable Location	Example - workshop, shop floor, fabrication, Quality Inspection, etc

Alternatives

- Mechanical Fitment Stands (Small, Extra Large), Flexible Snake Arm Fitment
- Light Duty, Heavy Duty and Heavy Duty with Fine Adjustment Fitments
- Magnetic Bases with Push Button Switches / Toggle Switches

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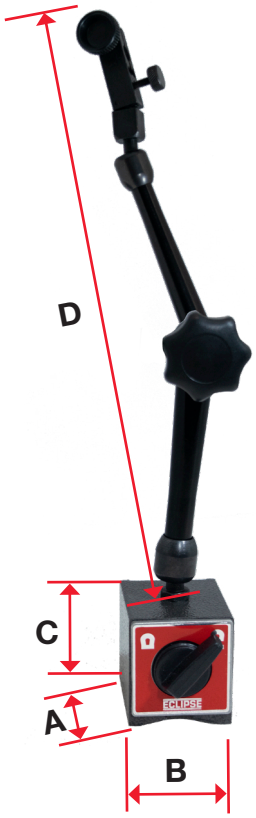

Product Number	Fitment Product Used	Fitment Details				Magnetic Base Product If Used	Magnetic Base Details (If Used)					Pull Force* (kg)	Units per Pack
		Maximum Extension D (mm)	Screw Thread	Diameter of Clamp Hole (mm)	Weight (kg)		Length A (mm)	Width B (mm)	Height C (mm)	Hole Thread	Weight (kg)		
RP999	RP999	295	M8	8.0 / Dovetail	0.272	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
E910	RP999	295	M8	8.0 / Dovetail	0.272	E905WF	65	50	55	M8	0.96	80	1

* The Pull Force stated is the maximum each product can pull onto a large high quality mild steel slab (to give relative performance values). In most applications, the magnetic parts will be of varying shapes and sizes with varying magnetic permeability so it should be expected that your application is likely to hold less than the stated values.

For further assistance, please contact sales@eclipsemagnetics.com

Conversions Guide:-

1kg ≈ 2.204lb ≈ 9.806N
1lb ≈ 0.453kg ≈ 4.448N
1N ≈ 0.101kg ≈ 0.224lb

10mm ≈ 0.393in (≈ 25/64in)
1in ≈ 25.4mm

(the above conversion values are rounded down)

bsi. ISO 9001 Quality Management FM 31278 ISO 14001 Environmental Management EMS 616377

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