

Electro Permanent Magnetic Plate Handling System

EPM Fixed Spreader Beam

Features

- EPMs suspended from fixed length spreader beam so that the maximum range of plates are covered.
- Optimise the available work area by elimination of dunnage.
- Electronic control panel along with standby PCB card.
- Double Mag Cycle - this ensures the safe lifting of the load.
- Power Control – Magnetic Power can be varied in 4 steps
- Magnets can be selectively switched according to the length of the plate being handled.
 - Smaller Plates – Only internal magnets are switched ON.
 - Larger Plates – All the magnets are switched ON.
- Safety Interlock Key – to Magnetize/ Demagnetize 2 buttons are to be pressed simultaneously. This eliminates the chance of accidental operation of the magnet.
- “Inching” feature –When the magnet is switched ON, it might lift more than a single plate. Inching is a feature, which when invoked reduces the magnetic power slowly such that additional plates, if lifted, are dropped. This is used to make sure that only one plate is handled at a time.
- ADPREM – Accidental Demagnetization PREvention Mechanism. Disable the demagnetization cycle when carrying load.
- Lamp Block – Displays the systems present state.
- Chain and Hanging Arrangement – made of grade 80 high strength steel along with bull ring.

Optional Units

- Radio Remote Control – Operates from a convenient distance all the functions i.e, MAG/DEMAG/Inching/ Telescopic Contraction and Expansion (if provided).

Application

- For loading/ unloading plates from Railway Wagons/ trucks.
- For storing in Plate yards.
- For feeding plates onto a flame/ plasma cutting machine table, one at a time.
- Can be used with EOT/ Gantry/ Mobile Cranes etc.



Art No	Beam Weight (Apprx) kg	Magnet Specifications		Plate Characteristics					Lifting Capacity kg
		Number of Magnets	Magnet Distance	Th	Length		Width		
	L1		min	min	max	min	max	max	
23102.01	750	5 (5x1)	1050	5	500	6300	500	3000	2,000
23102.02	1200	4 (2x2)	2800	5	3000	6300	500	3000	4,000
23102.03	1500	8 (4x2)	2200	5	2500	12500	500	3000	5,000
23102.04	1800	8 (4x2)	2200	5	2500	12500	500	3000	7,500
23102.05	2500	8 (4x2)	2200	5	2500	12500	500	3500	10,000
23102.06	2800	8 (4x2)	2200	8	2500	12500	500	3500	12,000
23102.07	3300	8 (4x2)	2200	8	2500	12500	500	3500	16,000

PERMISSIBLE OVERHANG OF PLATES	
TH - 5 mm	1350 mm
TH - 6 mm	1425 mm
TH - 8 mm	1550 mm
TH - 10 mm	1750 mm
TH - 12 mm	1900 mm

- Due to continuous upgradation in design there could be changes in specifications.
- Other sizes on request.