



CONVEYOR LINE

PERM-ELECTRO HYBRID RAIL

Conveying, Transferring and Nesting of Steel Items. IMI's Permanent-Electro Hybrid Rail is commonly used for automated conveying and transferring of steel sheets and parts in various industries including: Automotive, Appliance and Office Furniture. Hybrid Rail eliminates the need for time-consuming manual handling and feeding of presses. Magnetic hybrid rail and increases production speeds and improves safety. Hybrid Rail utilizes a powerful permanent magnetic circuit to move and hold steel objects during conveying. The coil is only energized for the amount of time required to release the part from the conveyor belt. This particular product is a permanent magnet with an electrical release. This fast acting on/off action enables the magnets to be controlled for specific drop points throughout the conveying system.



Applications:

- » For belt transfer of 22 to 12 gauge flat banks and sheet stock
- » Automated Sheet Handling
- » Transfer of parts between presses
- » Stacking
- » Overhead Conveying

Benefits:

- » Automated press feeding
- » Controlled Drop Points
- » No battery backup required

Options:

- » Customized designs readily available
- » Standard and custom power supplies (See Tech Sheet AG-10B)
- » 6 conductor cable for connection to controller
- » Terminal box location on magnet housing

FEATURES:

- » Continuous duty permanent magnet with low heat build-up
- » On/Off cycling for drop zones
- » Handles variety of sheet thicknesses
- » Industrial duty construction
- » Rapid cycling capabilities
- » Pre-tested coils prior to delivery
- » Ideal for blank sorting or stacking transfer systems
- » Each section has two zones that can be individually controlled
- » Epoxy potted magnet for heat transfer
- » 6-pin mini-style connectors allow the hybrid magnets to be "Daisy-Chained" for common drop zone control
- » Can be designed to fit most conveyor structures
- » Magnet is always active until momentary release pulse is sent from the power supply/controller
- » Cycle rate of 120ppm with IMI magnet controller and appropriate customer sensing circuit for the drop zone(s).
- » Coil is energized only for time required to release part from stacker conveyor belt

Key Markets

Stamping, Fabrication, Blanking

Related Products

Sheet Fanners, Transporters, Electromagnets

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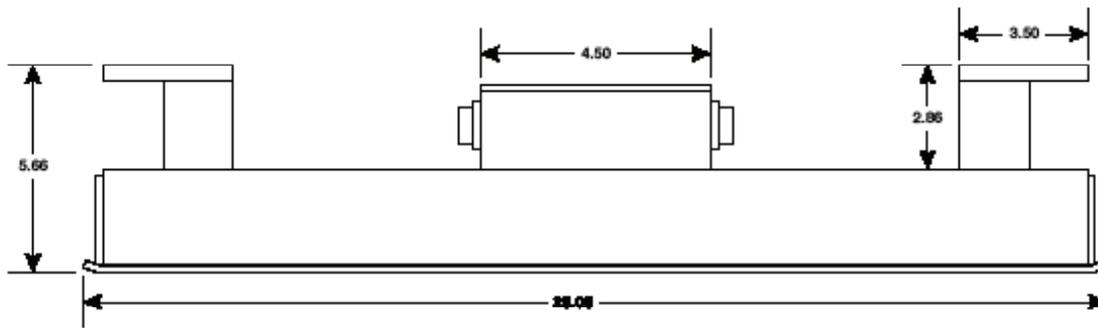
PERM-ELECTRO HYBRID RAIL SPECIFICATIONS

Dimensions and Specifications Standards

Specifications:

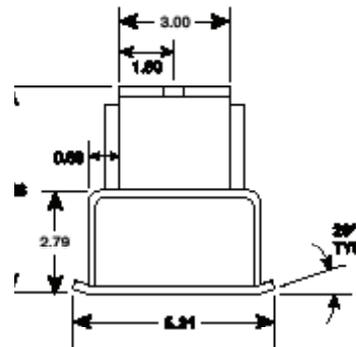
- » Mild steel construction
- » 90 VDC operation
- » 2 amps
- » 70° - 90°C temperature rise
- » 6-pin mini-style connectors
- » 180 WATTS/MAG
- » Can be controlled for two 12" long dropzones

ELECTROMAGNETIC CONVEYING RAIL DIMENSIONS:



Holding Force Per Foot

AIR GAP	HOLD LBS. 22 GA	HOLD LBS. 16 GA	HOLD LBS. 12 GA
0	25	47	84
0.06	18	35	57
.125	14	28	41
.180	9	24	30



*Dimensions representative of product at date of publication. If dimensions are critical, call for up-to-date changes.

