

Electrified Monorail System (EMS)

TYPE - AMS 180 / AMS 240

- An Intelligent, quiet, clean & safe system for precision & automated unit load transfer applications
- Each Carrier is an independent & intelligent unit with transfer system for vertical movement
- Factory assembled and tested modules like Rail, Bus Bar, Carrier & Switches
- Our AMS systems can be integrated with SCADA / Production Control Systems



DESIGN ARCHITECTURE

An intelligent, state of the art electrified monorail system; built to take care of all complex process requirements & capable of handling component weight upto 1500 kgs.

The AMS Series of electrified monorail system is designed using a single aluminum extruded section which makes the system clean and quiet and offers durability and flexibility as well.

Each AMS Carrier has its own drive unit and can run at variable speeds. The carriers can travel at speeds up to 120 m/min and operates with high stoppage accuracy.

Carriers can also be equipped with hoists or any other transfer system for accurate vertical movements at the load, unload or any other work stations.

CONTROL ARCHITECTURE

PLC control options - Siemens, Mitsubishi, Allen Bradley or as per customers choice.

Various options for controls can be offered. Typical controllers can be Barcode based, SEW, Lenze, L J U etc.

Busbar systems - Vahle, FABA, Wampfler or as per customer's choice.

The system can be connected to the SCADA through wireless I/O and advanced controls.

It is possible to offer real time communication between the EMS and the SCADA and displays that gives the I/O status for precise control of the carrier movement.

TECHNICAL DATA

Specification

Rail Type

Rail Size (H x W)

Capacity Single Trolley

Recommended Speed

Standard Horizontal Curves

Switch

Load Bar - Option 1

Load Bar - Option 2

Load Wheels / Guide Wheels (Material)

Load Wheels / Guide Wheels (Bearings)

Drive Wheel

Geared Motor

Maximum Temperature Range

Power Trolley Clutch (Optional)

AMS 180

AMS 240

Special Aluminium Alloy Extruded Section

180 mm x 60 mm

240 mm x 80 mm

Up to 500 kg

Up to 1500 kg

120 m/min (Max)

40 m/min (Max)

R1500, R2000, R750 (Switch)

R2000, R3000, R1500 (Switch)

Air / Electrical Actuator operated - Convergent / Divergent

Multiple Trolley Type

Multiple Drive Type

Specially Designed Polymer Material

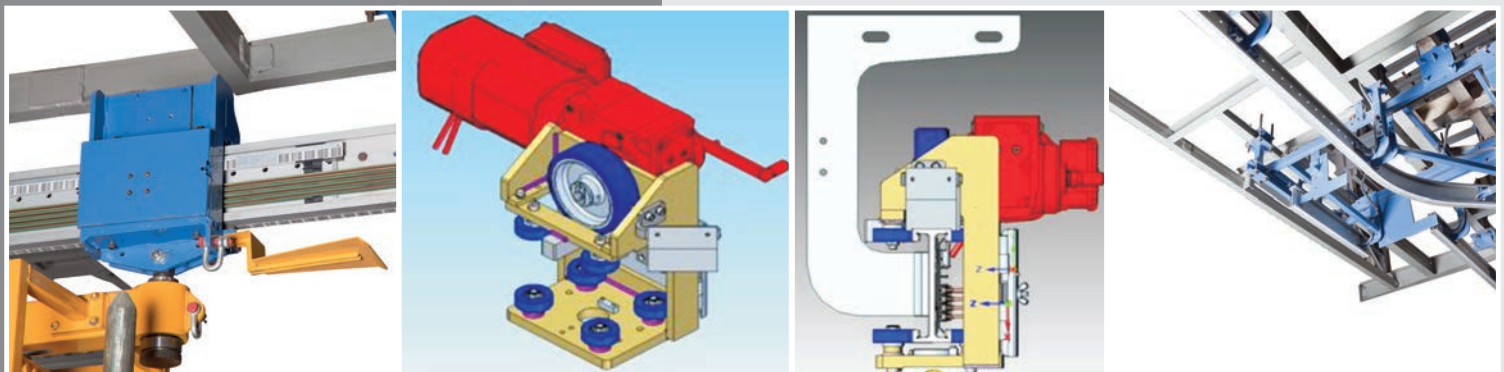
Grease Sealed Bearings

Specially Designed Polymer Material

Heavy Duty Motor with Integral Brake

Up to 45°C

External clutch actuation lever can be provided to allow the carrier to be manually moved in the event of drive unit failure



AUTOMAG

We Move Manufacturing...

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