Floor Mounted Rail Systems





AFMRS2000 - expandable rail system



CMRS1000 - cantilevered rail system (single post)



CMRS1000 - enhanced load capacity



CMRS1000 - offset three-post configuration



CMRS1000 - dual cantilevered configuration



MRAS4203 - offset floor mounted steel post

Knight Global floor mounted rail systems

Series: AFMRS1000 / AFMRS2000 / CMRS1000 / MRAS4203

Knight Global **Floor Mounted Rail Systems Rail Systems** are designed to provide a **safe, efficient** solution to ergonomic challenges on the factory floor. A wide range of configuration options covers each customer's specific technical requirements and applications.

The suspension rail system uses an **enclosed trolley track** that resists dust buildup for **quieter, smoother operation**. Floor mounted rail systems are available in both **Single Bridge** and **Dual Bridge** configurations to suit a wide range of lifting needs.

***Note:** Every system configuration is **custom-engineered for the project**. A FULLSHARP representative will help you select the right option and develop alternatives during rail system design.

Features

- Supports Knight **RAD4110, RAD6110 and RAD7510** bridges.
- Engineered aluminum posts.
- Engineered aluminum diagonal bracing.
- Bridge type: **Single / Dual**.
- Runway type: **RAD7510**.
- Max. runway length: **9,144 mm (30 ft)**.
- Max. bridge length:
- Max. post height: **4.5 m (15 ft)** to the bottom of the runway.
- Max. capacity: up to **1,360 kg (3,000 lbs)**.

Benefits

- **No welded construction** on posts - shorter lead times.
- Integrated slots on the posts allow mounting of accessories such as:
- **Bolt-together** construction.
- Easy assembly.
- Integrated runway rails.
- Integrated inspection gate on the runway.

AFMRS2000 - expandable floor mounted rail system

- Supports Knight **RAD4110, RAD6110 and RAD7510** bridges.
- Engineered aluminum posts.
- Engineered aluminum diagonal bracing.
- Bridge type: **Single / Dual**.
- Runway type: **RAD7510 / RAD6110 / RAD4110**.
- Max. bridge length:
- Max. post height: **4.5 m (15 ft)** to the bottom of the runway.

- Max. capacity: up to **1,360 kg (3,000 lbs)**.

- **Flexible expansion** - allows more than 4 posts and continuous runway options.
- **Unlimited runway length**.
- No welded construction on posts - shorter lead times.
- Integrated slots on the posts allow mounting of accessories:
- **Bolt-together** construction.
- Easy assembly.
- Optional integrated inspection gate on the runway.

CMRS1000 - cantilevered rail system

- Max. post height: **5,181 mm (17 ft)**.
- Max. bridge length: **7,010 mm (23 ft)**.
- **Rigid end trucks** - prevent bridge skewing under sudden loading and ensure accurate lifting and lowering.
- **Cushioned end caps** - absorb impact when the bridge reaches the end of the rail.
- **Extended stack hangers** with 38 mm (1.5 in.) of vertical adjustment in 6 mm (0.25 in.) increments.
- **Sway bracing cables** with adjustable turnbuckles.
- Built-in pad eyes on the beams for attaching safety cables and lateral bracing cables.
- Beam pad eyes also aid in lifting the beams during system assembly.
- Maximum capacity varies with system requirements. See the spec sheet for details.

- **Additional posts** can be added to minimize deflection.
- Runways longer than **8,230 mm (27 ft)**:
- Optional **mid rail stops**.
- **Dual cantilevered** configuration.
- **Offset three post** configuration.

- Supports Knight **RAD4110, RAD6110 and RAD7510** workstation crane systems.
- Floor mounted **heavy duty steel posts**.
- Available heights: **up to 6 m (20 ft)**.
- Max. capacity: **varies by application**.

- **Custom-designed** for each application and the customer's specific load requirements.
- Suited to workshops with limited ceiling height or building structures that cannot support overhead mounting.
- Rigid steel construction - handles heavy loads with long-term stability.

Product line comparison

Model	Post Material	Max. Post Height	Max. Bridge Length	Max. Capacity	Key Features
AFMRS1000	Engineered aluminum	4.5 m (15 ft)	9,144 mm (30 ft)	1,360 kg (3,000 lbs)	Bolt-together, integrated inspection gate
AFMRS2000	Engineered aluminum	4.5 m (15 ft)	8,229 mm (27 ft)	1,360 kg (3,000 lbs)	**Expandable** - unlimited runway
CMRS1000	Cantilevered steel	5,181 mm (17 ft)	7,010 mm (23 ft)	Per configuration	Cushioned end caps, extended stack hangers
MRAS4203	Heavy duty steel	6 m (20 ft)	Per project	Per application	Offset post, fully custom design

***Note:** All systems are compatible with Knight **RAD4110, RAD6110, RAD7510** aluminum rails and the full range of Knight Global trolleys and hangers. Contact FULLSHARP for help configuring a system for your project.

Typical applications

When to use AFMRS / CMRS

- Facilities **without a suitable ceiling structure** for overhead rail mounting.
- A **standalone work area** is needed, independent of the existing building structure.
- Areas with **multiple intersecting rail systems** or a need for clearly defined zones.
- Automotive assembly stations and heavy industrial production lines.
- Maintenance and repair areas for heavy equipment.

Choosing a configuration

- **AFMRS1000:** Suited to fixed work areas with no need for expansion.
- **AFMRS2000:** Suited when you need to **extend the runway** or plan future expansion.
- **CMRS1000:** Suited when **one side must stay open** (e.g. against a wall or next to machinery).
- **MRAS4203:** Suited to **extra heavy load** applications or highly customized requirements.

Technical documents

Brochure

- Floor Mounted Rail Systems Rail Systems Brochure PDF
- Rail Brochure - Knight Global rail overview PDF

Spec sheets

- AFMRS1000 / AFMRS2000 - Spec Sheet PDF
- CMRS1000 Cantilevered Rail System - Spec Sheet PDF

Manuals

- Cantilevered Rail System - Installation Manual PDF

Installation guides

- Aluminum Rail General Standards for Materials & Design Process PDF
- Aluminum Rail Installation Checklist PDF
- Eye Bolt Safety Cable Installation Instructions PDF
- MRAS4389 Beam-to-Beam Installation Instructions PDF
- Safety Cable Installation - End Trucks, Hangers, Trolleys PDF

FULL-SHARP AUTOMATIZED VN (FULLSHARP)
Authorized distributor of Knight Global aluminum rail systems and lifting equipment in Vietnam
For help configuring a floor mounted rail system (AFMRS1000 / AFMRS2000 / CMRS1000 / MRAS4203) for your project, contact a FULLSHARP representative for a quotation and detailed design drawings.

Contact us for consultation and a quotation

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Specifications may vary with the ordered configuration. Please contact FullSharp for exact details.