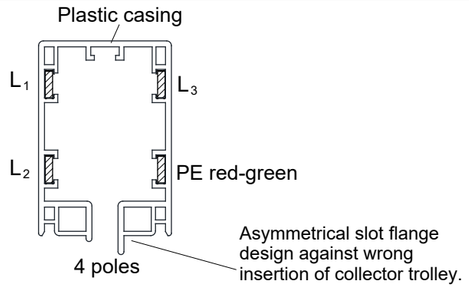
Technical Data

Technical Data Enclosed ERail

Rail System Configuration	Continuous Strip (CS)	Angle Clamping (AN)
Nom. Current at 100% ED and 35°C [A]	85 AMPS	60
Cross Section Area of Conductor [mm²]	25mm	25mm
Resistance at 60AMPS [Ω/m]	0.0011	0.0011
Impedance at 60AMPS [Ω/m]	0.0012	0.0012
Strip Material	Copper	
Basic Variants	Standard 4 Poles	
Nominal Voltage	35 ... 690V	

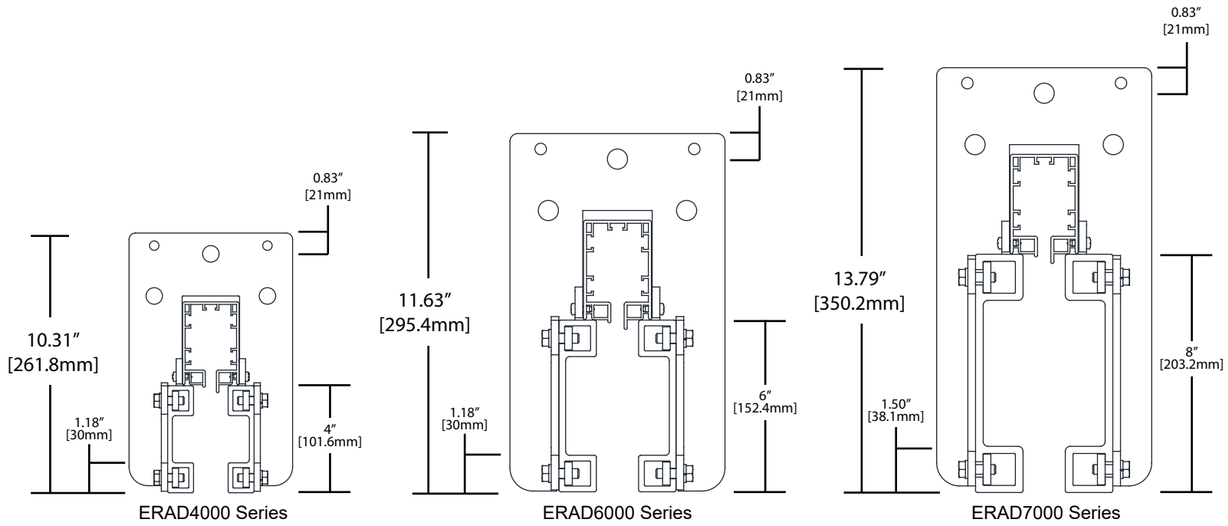


ERAD Series Specifications

ERAD Series	Max. Capacity* (LBS)	Max. Capacity* (KG)	Rail Height
ERAD4000	1,140	517	4”
ERAD6000	2,030	921	6”
ERAD7000	3,000	1,360	8”

*Capacities vary based on hanger spacing and rail lengths. Visit knightglobal.com for complete capacity charts.

ERAD Series Hanger Stack-Up Heights



— CONTACT US FOR MORE INFORMATION —

248.377.4950 INFO@KNIGHTGLOBAL.COM WWW.KNIGHTGLOBAL.COM

KNIGHT GLOBAL

ERAIL

ELECTRIFIED RAIL

Patent Pending

A COMPLETE POWER SUPPLY SUSPENSION SYSTEM

REV:20250320

ERAD SERIES ELECTRIFIED RAIL SYSTEMS

Electrified Rail Systems are a complete power supply suspension system that can be used in combination with a Knight Servo System, VFD tractors, power tools, and other electrical devices.

The ERAD Series is a fully enclosed electrical system that eliminates the stack-up of runway festooning. The power travels through a conductor power rail (ERail), mounted on top of Knight's ERAD4000, ERAD6000 or ERAD7000 ergonomically friendly aluminum rail. The standard ERail is equipped with (4) four poles, nominal current 85 amp, 240/480V which can run multiple systems on (1) one rail assembly.

Features

- Fully Enclosed Electrical System.
- ERail Electrical Capacity: Up to 85 amps / 690 volts.
- Horizontal curved sections available.
- Max. Weight Capacity: Up to 3,000 lbs [1,360 kg]
- Compliant with International Standards.
- Added safety against shock.
- Knight's unique hanger design allows for adjustments while leveling the system.

Benefits

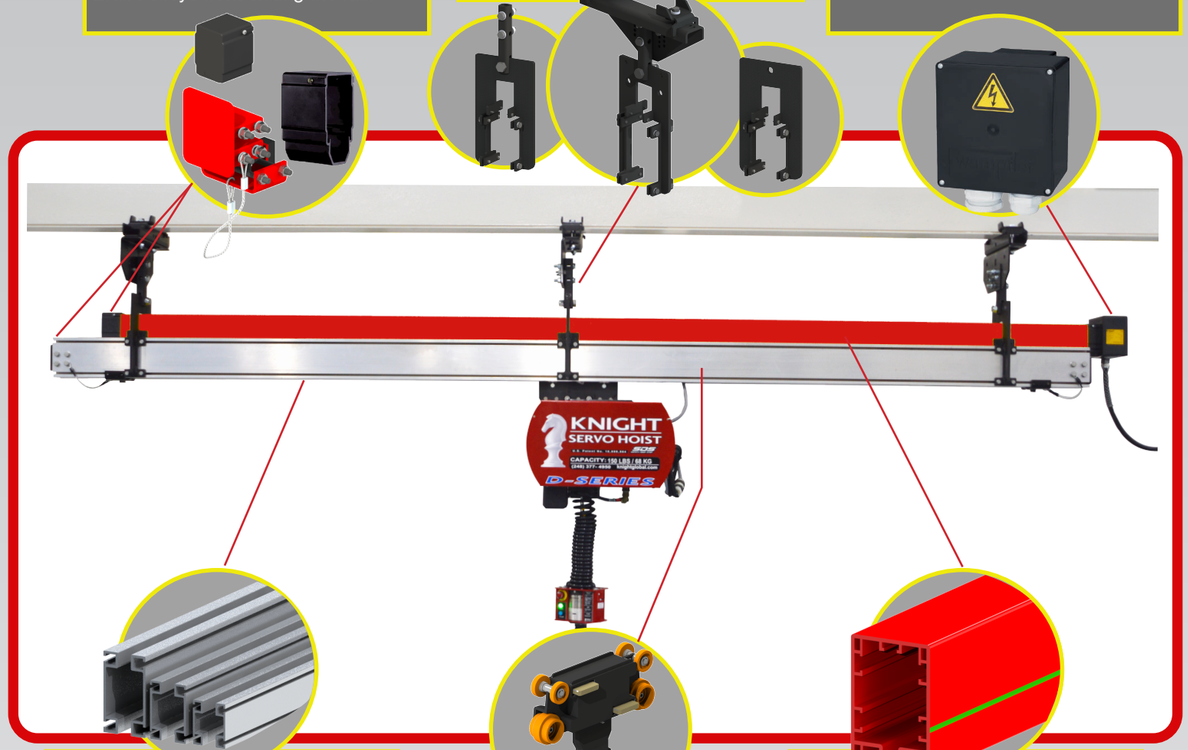
- Eliminates stack-up of festooning trolleys and hanging electrical cables.
- Simplifies installation by including electrical rail within suspension.
- Eliminates need for tow bars.
- Stacked compact design eliminates need from installing load rail and power rail separately.
- Twice the power of the competition.

•••System Components•••

ERail End Caps and Stops
Attaches to the end of the ERail Series Rail. The Redundant End Cap is primarily used to prevent load and Erail trolleys from exiting the rail.

Suspension Points
Knight adjustable hangers support both the Load Rail and ERail. Hanger has the ability to mount to I-Beams, C-Channels, Angle Iron, and many others.

Power Supply End Feed
E-Supply in-feed for ERail. Comes standard with 4 poles,



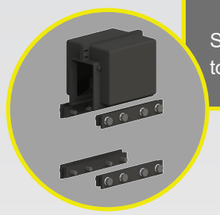
ERAD4000 / 6000 / 7000
Combined with Knight's load trolleys, provides the most ergonomically friendly rail system. Rail comes in lengths up to 25ft [9.1m] without a splice. Capacities up to 3,000 lbs. [1,360 kg].

ERail Trolley
Travels inside of ERail and is combined with the Knight load trolley. Copper graphite shoes are used for energy and control voltages over 35 V.

ERail
Available in 4 poles with a nominal current of 60 A.

Accessories

ERAIL Joint Cover



ERAD Splice Kit

Splice Kits and Joint Covers
Splice Kits and Joint Covers are used to join two pieces of E Rail together.

End Trucks
A combination of a trolley and structural rail hanger. Configurations for different rail sizes are available.