Star



DSD quick connect star rail Series



Knight Global DSD Quick Connect Star Rail Series

Knight Global DSD quick connect star rail system

Series: DSD1108 / DSD1109 / DSD1110

The Knight Global **DSD Quick Connect** Star Rail features a unique **Spline Lock Tube** design, extruded from lightweight, high-strength aluminum alloy. It is a **flexible** modular system with customizable components that fully meets the needs of building industrial workstations and fixtures.

The Star Rail is **an ideal solution** for a wide range of factory applications. The DSD Quick Connect Series is available in three (3) sizes, assembles easily and **requires no welding at all**, saving installation time and cost.

***Note:** Aluminum alloy to **ASTM B221 6005-T5**. **Adjustable in 22.5° increments**. Connecting fittings can be installed at any point along the rail without welding.

Features & benefits

Features

- Aluminum alloy **ASTM B221 6005-T5**, high strength and lightweight.
- Knight Global proprietary **Spline Lock Tube** design.
- Flexible **adjustment in 22.5° increments**.
- Available in 3 standard sizes:
- Product weight:
- Maximum load: contact FULLSHARP for detailed ratings by configuration.

Benefits

- Maximum rail length **3,65 m (12 ft)** in a single continuous section.
- **Pre-assembled** components ready to deploy.
- **Quick and easy** installation that saves build time.
- **No welding required** – no heat generated, safe for the shop environment.
- **Modular** design – easy to disassemble, expand or relocate when reconfiguring.
- Light weight **reduces the load** on overhead support structures.
- Fully compatible with the Knight Global DSA Quick Connect fittings.
- Suited to workstations, fixtures and jigs on production lines.

Model comparison

Part Number	Outside Diameter (O.D.)		Inside Diameter (I.D.)		Weight	Material
in	mm	in	mm			
DSD1108	2.00	50.8	1.40	35.6	0,64 kg/ft (1.4 lbs/ft)	Aluminum alloy **ASTM B221** 6005-T5
DSD1109	1.50	38.1	1.00	25.4	0,41 kg/ft (0.9 lbs/ft)	
DSD1110	1.00	25.4	0.57	14.5	0,23 kg/ft (0.5 lbs/ft)	

***Note:** Standard rail length is up to **3,65 m (12 ft)**. Adjustment in **22.5° increments** lets the star rail adapt to many different mounting configurations. Contact FULLSHARP for advice on the right configuration for your project.

DSA quick connect fittings

The **DSA Quick Connect** fittings join DSD rail sections quickly **without welding**. Available in steel or aluminum with several inside diameters to suit a wide range of mounting configurations.



Straight connector DSA1136 / DSA1146
DSAAL1136 / DSAAL1146 horizontal & vertical connection Straight Connector



T-connector DSA1137 / DSA1147
DSAAL1137 / DSAAL1147 90° perpendicular connection T-Connector



L-Connector DSAAL1138 / DSAAL1168
Available in aluminum only 90° corner connection L-Connector

Typical applications

Workstations & fixtures

- Building modular **workstations** on assembly lines.
- Custom **jig & fixture** fabrication for each process step.
- Part clamping frames for machining.
- Assembly stations for electronics, automotive and precision engineering.

Production support

- Support frames for **balancers, pneumatic hoists and screwdrivers**.
- Routing **compressed air lines and electrical cables** in the shop.
- Support frames for measuring and inspection (QC) equipment.
- Tool suspension frames for operators.

Technical documents

Brochure

- Rail Brochure – Knight Global aluminum rail range overview PDF

CAD drawings

- Complete CAD drawing set - DSD Series ZIP

Spec sheet

- DSD Rail – Detailed spec sheet PDF

Installation guides

- Aluminum Rail Installation Checklist PDF
- Eye Bolt Safety Cable Installation Instructions PDF
- Safety Cable Installation – End Trucks, Hangers, Trolleys PDF

FULL-SHARP AUTOMATIZED VN

Authorized distributor of Knight Global aluminum rail systems and lifting equipment in Vietnam
For advice on a DSD Quick Connect Star Rail configuration (DSD1108/DSD1109/DSD1110) for your project, please contact a FULLSHARP representative for a quotation and detailed design drawings.

Contact us for consultation and a quotation

Vietnam factory: Workshop A1-1, VSIP Hai Phong, Nam Trieu Ward, Hai Phong City · +84 817 888 198
Taiwan factory: Zhongli District, Taoyuan City · +886 3-451-8806
Email: sales@fullsharp.com.vn · **Website:** www.fullsharp.com

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