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Locomotive & Rafi Car Stopping Devices

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CUSTOMISED RAIL STOP/CHOCK







Product in application



Built in handles



Built in M12 eye bolt anchor point



Flatpack



TYPICAL INDUSTRIAL APPLICATIONS:



Stacker/Reclaimer Rail Wheel Stop/Chock



Rail Freight & Passenger Car Rail Wheel Stop/Chock



Gantry Crane Rail Wheel Stop/Chock

GENERAL FEATURES:

The Specialised Force Customised RAIL STOP/CHOCK products provide innovative and flexible options for a variety of Rail Stop/Chock applications across multiple industries and numerous Rail Gauges and types (e.g. Freight/Passenger rail lines, Crane Rail lines, etc).

Typical design and operational characteristics of the Customised Rail Stop/Chock Products include:

- Products can be designed to suit multiple Rail profiles and types, and intended for use on relatively level Rail lines at low Vehicle/Structure velocities.
- Rail Stop/Chock units can be designed to accommodate high levels of instantaneous Impact force (e.g. 8 Mega Newtons) depending on the design, with customised designs verified through the use of the latest engineering design and/or validation techniques (e.g. Finite Element Analysis (FEA)).
- Made from high strength lightweight Aluminium Alloy for ease of handling and Transport.
- The Products incorporate built-in M12 eye bolt anchor points for the connection of suitable Lifting/Handling/Transporting Aids.
- The Customised Rail Stops/Chocks are designed to allow component manual handling as each component has been designed to be less than 20kg. This can facilitate the assembly/installation of these products on relevant Rail Profiles with one to two people for permanent or temporary application requirements. Simply position and fit the Stop/Chock halves, apply the necessary bolts/nuts and tighten to the predefined Torque settings. As such, no drilling of the Rail is necessary to secure the Stop/Chock.
- Repeated significant impacts may weaken the Stop/Chock, therefore routine Inspection/ Verification activities may be required following such collision events to ensure the functionality and structural integrity of the Stop/Chock is verified.



3

CUSTOMISED RAIL STOP/CHOCK



Main Components:

- Two lightweight (< 20kg each) halves of the Rail Stop/Chock
- High Tensile Strength Bolts
- High Tensile Strength Nuts
- High Tensile Strength Washers



SPECIALISED FORCE

EQUIPMENT

TY. ITD.



Place each half of the Rail Stop/Chock on the Rail Head ensuring the CNC machined profile wraps around the Rail Head snuggly. This process may require two people to help each other position each half respectively. **Note:** Rail head has to be clean and clear of any obstructions before the Rail Stop/Chock can be applied.



With the two halves properly positioned insert the first Bolt/Nut/Washers into the hole number three and tighten snuggly by hand to simply secure both halves around the Rail Head.



EXAMPLE INSTALLATION INSTRUCTIONS OF A TYPICAL RAIL STOP/CHOCK:

Install remaining Bolt/Nut/Washer assemblies and tighten snuggly.





Sequentially commence the process of Torquing each Bolt/Nut/Washer assembly to the specified torque level in order to secure both halves of the Rail Stop/Chock together to the appropriate compressive load around the Rail Head profile. Follow below sequence for torquing the bolts. 1st torque the bolt number three 2nd torque the bolt number three 2nd torque the bolt number two 3rd torque the bolt number five 4th torque the bolt number four 5th torque the bolt number one



Torque bolts to approximately 3,540 Nm using an appropriate tool.

Once complete the Rail Stop/Chock is ready for operation to its rated loading capacity. Routinely inspect the torque on the Bolt/Nut/Washer assemblies to ensure the appropriate bolt tensions are being maintained. LOCOMOTIVES & RAIL CAR STOPPING DEVICES

CUSTOMISED RAIL STOP/CHOCK



EXAMPLE DIMENSIONS OF A TYPICAL RAIL STOP/CHOCK:













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