

PROFESSIONAL STEEL MAKING

INTRODUCTION

A monorail crane is a specialized type of overhead crane consisting of a single beam with a hoist that runs along it. These cranes are designed for efficiency material handling within restricted areas, serving as an alternative to conventional crane and conveyor belt

MONORAIL CRANE

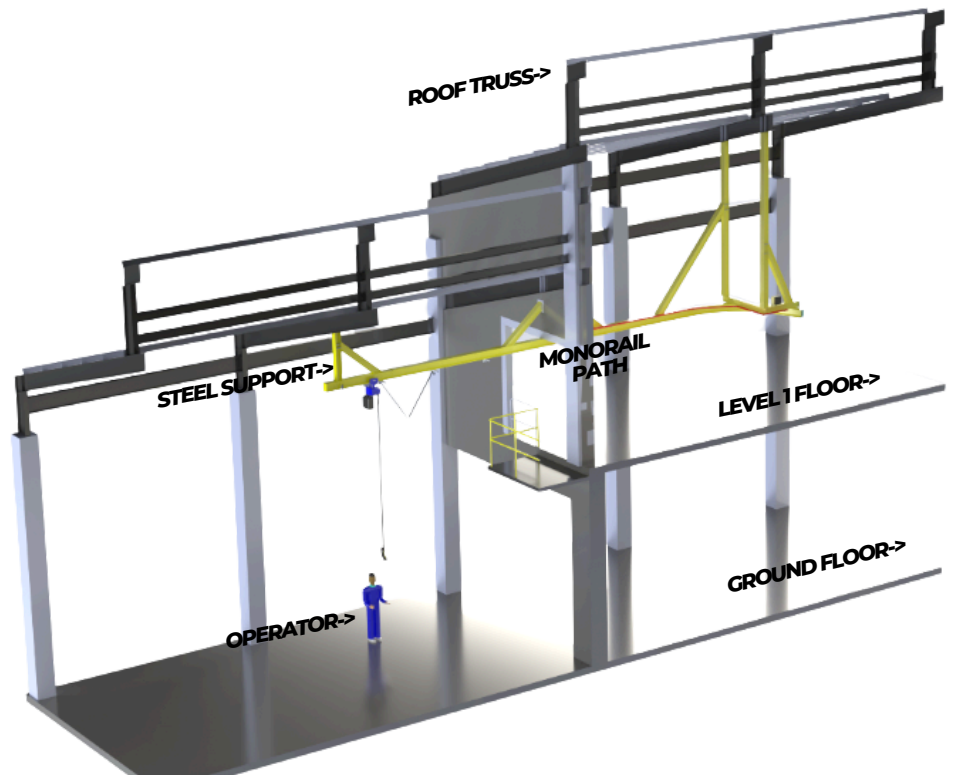


**CUSTOMIZED
SOLUTION**



**DOSH
APPROVED
DESIGN**

3D ILLUSTRATION



NOTE
OD - OUTSIDE DIAMETER (CUSTOMIZABLE)
SL - SHELL LENGTH (CUSTOMIZABLE)
OL - OVERALL LENGTH (CUSTOMIZABLE)

Please note that shell length and shell diameter are both customizable depending on the end user's site requirement.



ENGINEER ☒ DESIGNER ☒ FABRICATOR ☒

PROFESSIONAL STEEL MAKING

SPECIFICATION

DESIGN CODE

BS 5950 : Part 1 Structural use of steelwork in building

BS 2573 : Rules for the design of cranes

BS 4360: 1990 Specification for weldable structural steels

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KEY COMPONENT:

- **Monorail beam** : A single stationary beam that serves as the main support structure, typically mounted on the ceiling or a floor-mounted frame.
- **Hoist** : The lifting mechanism responsible for raising and lowering the load. it can be manually operated, electrically power or pneumatic.
- **Trolley** : A wheeled compenant that travels along the monorail beam.
- **Festoon** : A system that manages the power supply and control cables, allowing them to move along with trolley and hoist.
- **Hook** : The loads bearing component that connected to the hoist and the load being lifted.
- **Controls** : These can be pendant-style, remoted-controlled that operate the hoist and trolley movement

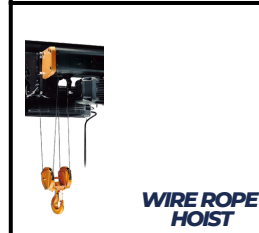
HOIST TYPE:



**ELECTRIC
CHAIN HOIST**



AIR HOIST



**WIRE ROPE
HOIST**

Electric motor to lift or lower heavy loads using a chain and hook. These hoists provide a safe and efficient way to handle loads that are difficult or unsafe to lift manually

An air hoist (also known as a pneumatic hoist) is a type of hoist that is powered by compressed air instead of electricity. This makes air hoists ideal for applications where electric-powered equipment is not safe or practical, such as in hazardous or explosive environments (e.g., oil rigs, chemical plants, or areas with flammable materials)

A wire rope hoist is a type of mechanical lifting equipment that uses a wire rope to lift. Wire rope hoists are commonly used for applications like moving heavy machinery, equipment, and materials across workshops, warehouses, and construction sites.

TRAVEL PATH

TRAVEL PATH			
Model	Gbt-1	Gbt-2	Gbt-3
Load capacity	1000kg	2000kg	3000kg
Lifting height	6 meter		
Travel Path	straight or curved		

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