

PRODUCT SPECIFICATION

Semi Electric DC Jib Crane

NANDI Semi Electric DC Jib Cranes are designed for the safe lifting, handling, and movement of heavy non-palletised loads in factories, workshops, warehouses, and production areas. These cranes combine manual movement with battery-operated hydraulic lifting, making them suitable for applications where loads need to be lifted and positioned with better control and reduced operator effort.

Built with a strong and rigid jib crane structure, heavy-duty boom arm, and reliable DC power pack, NANDI Semi Electric DC Jib Cranes are ideal for industrial applications requiring safe lifting in areas where conventional stackers may not be suitable. They can also be offered in customised sizes to suit specific customer requirements.

TECHNICAL SPECIFICATIONS

PRODUCT TYPE	Semi Electric DC Jib Crane
RATED CAPACITIES	500 kg / 1000 kg / 1500 kg / 2000 kg
MINIMUM HOOK HEIGHT	Customisable
MAXIMUM HOOK HEIGHT	Customisable
MOVEMENT	Manual
LIFTING METHOD	DC Power Pack (Battery Operated)
LIFT MOTOR RATING	1.2 kW
BATTERY OPTIONS	12V / 88Ah or 12V / 130Ah – 1 No
BATTERY CHARGER	12V / 15 Amps – 1 No
WHEEL OPTIONS	Nylon / Cast Iron / Polyurethane

TECHNICAL DETAILS

VERTICAL PILLAR	Heavy-duty C-formed MS sheet boxed section designed to withstand heavy loads
BOOM ARM	Welded with extra stiffening to withstand heavy-duty applications
FULCRUM POINTS	Provided with brass bushes to reduce wear and tear

DETAILED TECHNICAL FEATURES

- Power System**
 - Equipped with a 12V DC pump from a reputed manufacturer
 - Powered by a 12V / 88Ah or 12V / 130Ah traction battery for reliable and consistent operation
- Customisable Design**
 - Available in customised sizes to suit specific customer requirements and application needs across different industries
- Structural Integrity**
 - Jib crane structure is designed to remain rigid under heavy load and prevent distortion during operation
- Steering Mechanism**
 - Equipped with a direct mechanical tiller-type steering system
 - Allows wheel turning up to 200 degrees for improved maneuverability and easier handling, even in tight spaces
- Electrical Protection**
 - PCB-controlled power system for efficient operation

- Overload relay and fuses provided to protect the DC motor from electrical damage
- Proximity sensors integrated to automatically cut off the motor once the required height is reached for safe and controlled lifting

SPECIAL FEATURES

- Battery-operated lifting with manual movement
- Strong and sturdy structure for industrial lifting applications
- Customisable hook height to suit customer requirement
- Heavy-duty boom arm with reinforced construction
- Smooth and controlled lifting performance
- Direct tiller steering for easy maneuverability
- Reliable electrical protection system
- Suitable for lifting non-palletised loads in industrial environments
- Ready spare parts and dependable service support
- Built for demanding shop-floor conditions

COMMON APPLICATIONS

- Lifting and moving non-palletised materials
- Handling heavy components in machine shops and workshops
- Positioning loads in production and assembly areas
- Material lifting in narrow or restricted spaces
- Applications where conventional stackers cannot be used effectively

BENEFITS

NANDI Semi Electric DC Jib Cranes help improve worker safety, reduce manual lifting strain, and enhance efficiency in material handling operations. They are particularly useful for critical lifting applications that require controlled movement and dependable performance in industrial conditions.

Customisation Available: Hook height, boom configuration, battery option, wheel type, and other specifications can be offered based on customer requirement and application.