

PRODUCT SPECIFICATION

Semi Electric AC Jib Crane

NANDI Semi Electric AC 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 AC-powered 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 AC power pack, NANDI Semi Electric AC 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 AC Jib Crane
RATED CAPACITIES	500 kg / 1000 kg / 1500 kg / 2000 kg
MINIMUM HOOK HEIGHT	Customisable
MAXIMUM HOOK HEIGHT	Customisable
MOVEMENT	Manual
LIFTING METHOD	AC Power Pack
POWER SUPPLY	Control panel and accessories provided
LIFT MOTOR RATING	2 HP, 3-phase, flange mounted
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 an AC power pack for smooth and reliable lifting performance
 - Powered through a 2 HP, 3-phase, flange-mounted motor of reputed make
 - Control panel and accessories provided for safe and efficient operation
- Customisable Design**
 - Available in customised sizes to suit specific customer requirements and industrial applications
- 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 in tight spaces
- Electrical and Hydraulic Protection**
 - Overload relay provided for protection of the motor

- Proximity sensors provided for cut-off positioning
- Overload relief valve provided to divert oil back to the tank in case of overloading
- Hydraulic system designed for safe and dependable lifting performance

SPECIAL FEATURES

- AC-powered 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 and hydraulic 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 AC 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, wheel type, and other specifications can be offered based on customer requirement and application.

- NANDI Semi Electric AC Jib Crane – Technical Summary

CAPACITY	500 kg / 1000 kg / 1500 kg / 2000 kg
MOVEMENT	Manual
LIFTING THROUGH	AC Power Pack
MOTOR	2 HP, 3-phase, flange mounted
HOOK HEIGHT	Customisable
WHEEL OPTIONS	Nylon / Cast Iron / Polyurethane
STRUCTURE	Heavy-duty jib crane with reinforced boom arm
STEERING	Direct mechanical tiller type

- DC Model → battery-operated
- AC Model → mains-powered with control panel
- Available Variants
- Semi Electric DC Jib Crane