

PRODUCT SPECIFICATION

Semi Electric DC Stacker

NANDI Semi Electric DC Stackers are designed for safe lifting, stacking, and movement of palletised loads in warehouses, factories, stores, and production areas. These stackers combine manual travel with battery-operated lifting, making them ideal for applications that require efficient vertical lifting with reduced operator effort.

Built with a rigid structure, heavy-duty carriage, and a reliable DC power pack, NANDI Semi Electric DC Stackers are suitable for continuous industrial usage and can be offered in custom-built sizes to suit specific customer requirements.

PRODUCT VARIANTS

1. SINGLE MAST MODEL

- Suitable for lifting heights up to 2000 mm

2. DOUBLE MAST MODEL

- Suitable for lifting heights above 2000 mm up to 4000 mm

TECHNICAL SPECIFICATIONS

SPECIFICATION	Single	Double
CAPACITY	250 Kgs / 500 Kgs / 1000 kgs / 1500 kgs / 2000 Kgs	250 Kgs / 500 Kgs / 1000 kgs / 1500 kgs / 2000 Kgs
LOWERED HEIGHT	100 mm	100 mm
LIFT HEIGHT	Customisable – 500 mm to 2000 mm	Customisable – 2500 mm to 4000 mm
FORK LENGTH	Customisable – 500 mm to 1500 mm	Customisable – 500 mm to 1500 mm
WIDTH OF EACH FORK	100 mm / 125 mm / 150 mm	100 mm / 125 mm / 150 mm
MAST TYPE	Single Mast	Double Mast – Telescopic Model
MOVEMENT	Manual	Manual
LIFTING METHOD	DC Power Pack (Battery Operated)	DC Power Pack (Battery Operated)
LIFT MOTOR RATING	1.2 kW	1.2 kW
BATTERY	12V / 130Ah – 1 No	12V / 130Ah – 1 No
BATTERY CHARGER	12V / 15 Amps – 1 No	12V / 15 Amps – 1 No
WHEEL OPTIONS	Nylon / Cast Iron / Polyurethane	Nylon / Cast Iron / Polyurethane

KEY FEATURES

- Battery-operated lifting with manual movement
- Suitable for lifting heights up to 2000 mm
- Customisable fork length and fork width
- Strong and rigid structure for industrial use
- Smooth and efficient lifting operation
- Suitable for pallet lifting and stacking applications
- Available with multiple wheel options
- Designed for continuous warehouse and shop-floor usage
- Suitable for lifting heights above 2000 mm
- Double mast telescopic arrangement for higher reach
- Battery-operated lifting with manual travel
- Strong mast construction for better stability
- Custom-built sizes available to suit application
- Suitable for higher stacking applications
- Reliable and smooth lifting performance
- Built for continuous industrial use

POWER SYSTEM

- Equipped with a 12V DC pump from a reputed manufacturer

- Powered by a 12V 130Ah traction battery for reliable and consistent operation
- Supplied with a 12V 15 Amp charger with automatic cut-off to prevent overcharging

CUSTOMISABLE DESIGN

- Available in customised sizes to suit specific customer requirements and industry applications

STRUCTURAL INTEGRITY

- Rigid structure designed to prevent distortion under heavy load
- Two chains support the carriage for improved stability and durability

CARRIAGE PLATE

- Carriage plate made from 20 mm thick MS plate, reinforced to support heavy loads and ensure long service life

STEERING MECHANISM

- Equipped with a three-point steering system for better maneuverability and easier handling, even in tight spaces

SUPPORT ROLLERS

- Fitted with polyurethane-coated support rollers for smooth upward and downward movement

ELECTRICAL PROTECTION

- PCB-controlled power system for efficient operation
- Overload relay and fuses provided to protect the DC motor
- Proximity sensors integrated to automatically cut off the motor once the desired height is reached, ensuring safe and controlled lifting

SPECIAL FEATURES

- Battery-operated lifting for reduced operator effort
- Manual movement for simple and practical handling
- Available in Single Mast and Double Mast versions
- Lift heights available from 500 mm up to 4000 mm
- Customisable fork length and fork width
- Strong and sturdy structure for industrial applications
- Reinforced heavy-duty carriage plate
- Smooth maneuverability with three-point steering
- Reliable electrical protection system
- Suitable for warehouses, stores, factories, and production units
- Ready spares and dependable service support
- Built for demanding Indian industrial working conditions

COMMON APPLICATIONS

- Pallet lifting and stacking in warehouses
- Loading and unloading operations
- Material movement in stores and production areas
- Stacking goods at different rack heights
- Internal pallet handling in factories and industrial units