

PRODUCT SPECIFICATION

Hydraulic Goods Lift with AC Power Pack

NANDI Hydraulic Goods Lifts with AC Power Packs are designed for the safe and efficient vertical movement of materials in factories, warehouses, stores, and industrial facilities. Built with a heavy-duty alloy steel structure, reinforced carriage assembly, and a reliable hydraulic power pack, these lifts are suitable for handling heavy goods with smooth, stable, and dependable performance.

The equipment is factory tested and supplied as dismantled units such as the main structure, lifting gear, carriage assembly, electrical control panel, and hydraulic power pack, which are assembled and commissioned at site. Designed for smooth and soundless operation, the system also offers power saving of more than 60%, as lowering takes place by gravity without power supply to the pump. The hydraulic power pack and control panel can be installed at a convenient location outside the operating area, within 3 metres of the equipment.

TECHNICAL SPECIFICATIONS

PRODUCT TYPE	Hydraulic Goods Lift with AC Power Pack
CAPACITY OPTIONS	500 kg / 1000 kg / 2000 kg / 2500 kg
MINIMUM PLATFORM HEIGHT	Platform to be meshed at floor level
LIFT HEIGHT	Customisable according to site condition
PLATFORM SIZE	Customisable according to site condition
LIFTING METHOD	AC Power Pack
NO. OF LEVELS	G+1 / G+2 / G+3
PLATFORM CAR	Customisable as per site requirement
COLLAPSIBLE GATE AND GUARD	Optional

STRUCTURAL FEATURES

The main structure is fabricated from alloy steel in C-section design, welded to a base plate and grouted to the floor. It is connected to the existing side wall or structural beams using anchor bolts or support plates for stability.

The carriage assembly is mounted on the main structure using precision-engineered carriage rollers, along with side-balancing polyurethane rollers to ensure smooth and stable movement. The platform can be custom-fabricated to meet user-specific requirements in size and design.

HYDRAULIC CYLINDER ASSEMBLY

The hydraulic cylinder assembly is manufactured from high-quality seamless pipes and incorporates precision-machined moving seals. It is fitted with a hard chrome-plated EN8 ram, designed to deliver accurate, smooth, and leak-proof lifting performance.

ELECTRICAL CONTROL PANEL

The electrical control panel is equipped with overload relay, electrical switches, MCBs, cut-off fuses, and relays, all mounted on a durable mounting plate. The panel is designed and assembled in line with standard industry norms to ensure reliable and safe operation.

SAFETY FEATURES

- Electrical System
 - Overload relay provided for motor protection
 - Push-button operation provided at top and bottom
 - Proximity sensors provided for cut-off positioning

- 24V DC supply provided for all sensors
- 20 Amp MCB cut-off provided
- AC power supply used only within the control panel and power pack

■ Hydraulic System

- Overload relief valve provided to divert oil back to the tank in case of overloading
- Power pack provided with 3 HP, 3-phase motor of standard make, consisting of hydraulic pump, valves, manifolds, electrical controls, and panel board

■ Mechanical System

- Mechanical stoppers provided to prevent overshooting beyond maximum lift level
- Mechanical solenoid valve release provided to lower the lift safely in case of power failure

KEY FEATURES

- Heavy-duty alloy steel C-section structure
- Smooth and stable platform movement through precision carriage rollers and PU balancing rollers
- Customisable lift height and platform size
- Floor-level platform arrangement
- Factory-tested system supplied for site assembly and commissioning
- Smooth and low-noise operation
- More than 60% power saving through gravity-based lowering
- Optional collapsible gate and guard
- Suitable for G+1, G+2, and G+3 applications
- Reliable electrical, hydraulic, and mechanical safety systems

APPLICATIONS

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| • NANDI Hydraulic Goods Lifts are suitable for: | • production units and industrial shops |
| • movement of goods between floors in factories | • stores and dispatch sections |
| • warehouses and storage facilities | • locations requiring safe vertical material transfer |