

INDUSTRIAL CONSTRUCTION HOISTS



**MSJA Engineers
Private Limited**

PASSENGER & MATERIAL HOISTING SOLUTIONS

PASSENGER HOIST SPECIFICATIONS

Model Lineup: MSJA 400 | MSJA 1000 | MSJA 1500 | MSJA 2000

MSJA Engineers Private Limited designs and manufactures heavy-duty, rack-and-pinion passenger and material hoists engineered for structural rigidity, high safety compliance, and efficient vertical transit. Below are the technical specifications for our standard passenger hoist series:

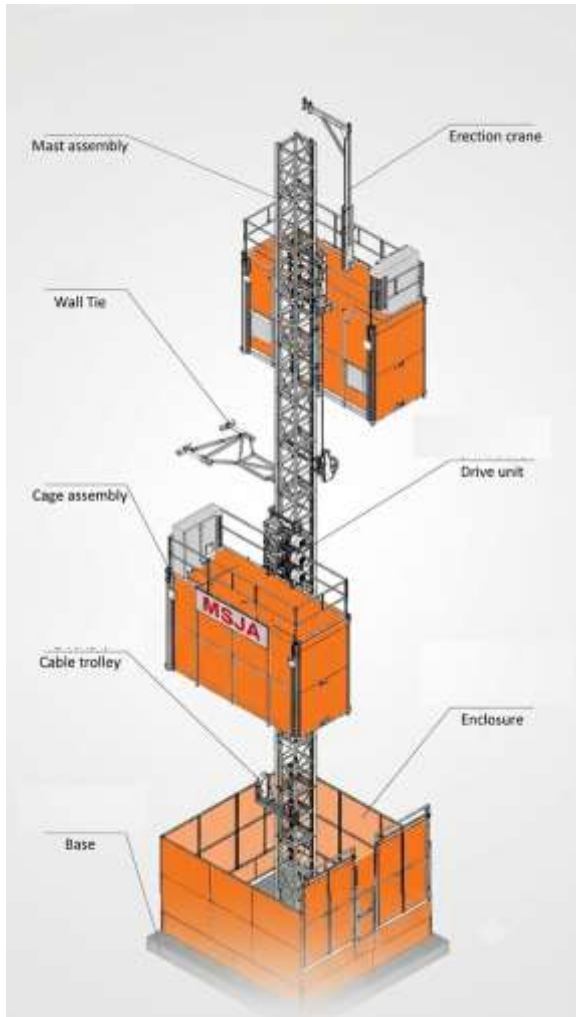
Specification / Parameter	MSJA 400	MSJA 1000	MSJA 1500	MSJA 2000
Rated Payload Capacity	400 kg)	800 kg	1,000 kg	2,000 kg
Lifting Speed	28 m/min	28 m/min	28 m/min	28 m/min
Maximum Lifting Height	100 m	150 m	180 m	200 m
Drive Motor Power	2 × 7.5 kW	2 × 9.2 kW	2 × 12.5 kW	3 × 12.5 kW
Safety Device Model	SAJ30-1.2 Progressive	SAJ30-1.4 Progressive	SAJ30-1.4 Progressive	SAJ40-1.6 Progressive
Cage Dimensions (L×W×H)	1.5 × 1.0 × 2.1 m	2.0 × 1.2 × 2.1 m	2.5 × 1.3 × 2.1 m	3.2 × 1.5 × 2.1 m
Gear Rack Module	M8	M8	M8	M8
Power Supply	415V / 50Hz / 3P	415V / 50Hz / 3P	415V / 50Hz / 3P	415V / 50Hz / 3P

ADDITIONAL TECHNICAL & SAFETY SPECIFICATIONS

- **Safety Integration:** Fitted with progressive centrifugal anti-fall safety devices, mechanical and electrical door interlocks, and emergency limit stop switches.
- **Structural Design:** Heavy-duty galvanized lattice mast sections with precision-machined M8 gear racks for smooth and stable travel.
- **Drive Transmission:** Multi-motor gearbox transmission with high-torque electromagnetic disk braking mechanism.
- **Power Compliance:** Standardized for 415V, 50Hz 3-phase power supply with IP55 weather-resistant electrical control enclosures.

HOIST ASSEMBLY & SYSTEM ARCHITECTURE

Detailed Structural Breakdown & Component Diagram



1. Erection Crane

Top-mounted auxiliary crane facilitating rapid self-erection of mast sections and wall ties.

2. Mast Assembly

Robust steel lattice column with integrated M8 gear rack for smooth vertical tracking.

3. Wall Tie System

Adjustable structural tie-in frame anchoring the mast column to the building structure.

4. Drive Unit

High-efficiency multi-motor gearbox cluster with electromagnetic disk brakes.

5. Cage Assembly

Spacious passenger/material cabin with safety-interlocked access doors and anti-skid flooring.

6. Cable Trolley

Guided dynamic cable tensioning system ensuring reliable power supply delivery.

7. Enclosure & Base

Heavy-duty perimeter fenced ground enclosure mounted on a concrete foundation base.