

RAIL 500 mini

Lightweight Compact Gantry Crane

(230 V Electric / Manual Options)



Rail 500 mini is a lightweight knock-down gantry crane designed for field service, rented facilities and temporary sites. It is supplied as a ready-to-use package with a dual-speed electric chain hoist and a manual travel trolley. A fully manual configuration with a manual chain hoist is also available — it significantly reduces upfront cost and can be used where no power supply is available.

Rated lifting capacity	500 kg
Maximum lifting capacity	Up to 1000 kg
Maximum lifting height	Up to 2.9 m
Front clear opening (span)	3 m
Folded dimensions (for transport / storage)	0.44 × 0.91 × 3.15 m
Power supply	230 V AC, 50/60 Hz, single-phase, installed power 0.75 kW
Principle of operation	Manual/electric chain hoist, manual push trolley
Controls	wired pendant (optional radio remote)
Approximate weight	152 kg



Typical Applications

RAIL 500 mini is intended for light-duty and medium-duty lifting tasks, such as:

- Service and maintenance work in workshops, garages and technical rooms
- Temporary lifting setups on construction and renovation sites
- Handling of components, tools and spare parts in rented facilities and storage areas
- Loading/unloading small machinery, equipment and materials within the 3.0 m span and 2.9 m lifting height
- Situations where a relocatable, easy-to-dismantle gantry crane is preferred over a permanently installed overhead crane

Key Features & Benefits

- Lightweight knock-down construction
- The gantry can be dismantled or folded into a compact footprint of approx. 0.44 × 0.91 × 3.15 m for easy transport and storage, and for quick relocation between sites.

- Ready-to-use package
- Supplied as a complete system including gantry structure, dual-speed electric chain hoist (for the electric version) and manual trolley, with wired pendant control as standard.
- Perfect for temporary and rented sites Its compact size, low weight and simple erection/disassembly make Rail 500 mini particularly suitable for rented facilities, temporary workshops and field service locations.
- Flexible power concept
- Electric version: operates from a standard 230 V AC single-phase supply (≈ 0.75 kW installed power).
- Manual version: no mains power required, ideal for remote or basic sites.
- Cost-optimised configurations
- From the fully manual “economy” version to the “pro” package with radio remote and accessories, the user can balance investment cost, convenience and performance.

Technical Specifications

Lifting Performance

Rated lifting capacity (SWL)	500 kg
Maximum lifting capacity	Up to 1000 kg
Maximum lifting height	Up to 2.9 m (depending on hoist configuration)



Power Supply (Electric Version)

- Supply voltage: 1×230 V AC, 50/60 Hz
- Supply type: single-phase
- Installed power: approx. 0.75 kW

Gantry Structure

- **Type:** compact portable gantry crane, knock-down / foldable design
- **Front clear opening (span):** 3.0 m
- **Support arrangement:** two portal frames forming the 3.0 m span
- **Intended installation:** level floor / slab; temporary or semi-permanent setups

Hoist & Controls

Hoist type	Electric chain hoist, dual-speed lifting
Trolley	Electric travel trolley, dual-speed horizontal motion
Standard control	Wired pendant with direction controls and emergency stop
Optional control	Radio remote control for wireless operation of lifting and travel motions (start/stop, up/down, trolley travel; emergency stop).

Compliance & Safety

Rail 500 mini is designed and supplied in conformity with the applicable EU machinery safety requirements, including:

Drawings Rail 500 mini-2025-EN-1, Directive 2006/42/EC (Machinery Directive) – CE marked, EN ISO 12100 – Safety of machinery, general principles for design, EN 60204-1 – Electrical equipment of machines, EN ISO 13849-1/2 – Safety-related parts of control systems.

Integrated protective functions (electric versions) include:

Drawings Rail 500 mini-2025-EN-1, Overload limitation, Over-hoist limit switch, Emergency stop.

An EU Declaration of Conformity is provided with each unit upon delivery.

Configurations

Rail 500 mini is available in several configurations to match different budgets and site conditions:

- Base (Hybrid) - Electric dual-speed chain hoist + manual trolley, Precise lifting and positioning at minimal overall cost
 - Manual (Economy) - Manual chain hoist + manual trolley
 - Lowest acquisition cost, no mains power required, simple maintenance
 - Pro - Electric hoist + radio remote control
- Optional accessories such as casters/transport kit, travel limiters, hook suspensions, etc.

Figure 1

General arrangement / side view and main dimensions of RAIL 500 (erected position).

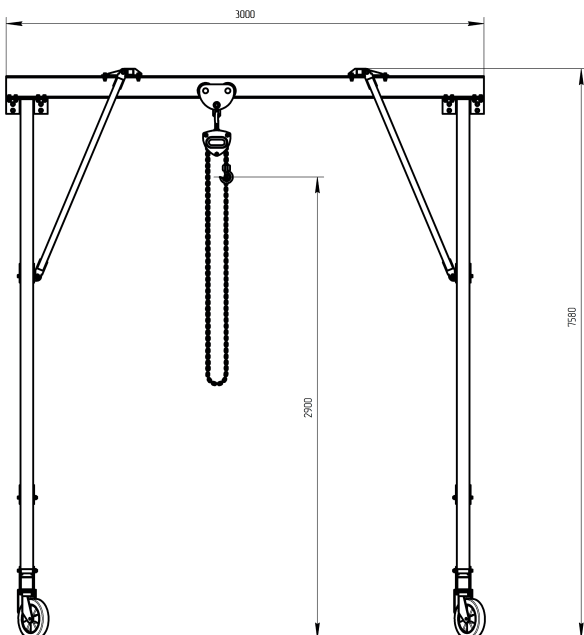


Figure 2

Working envelope and clear openings (front span and side opening).

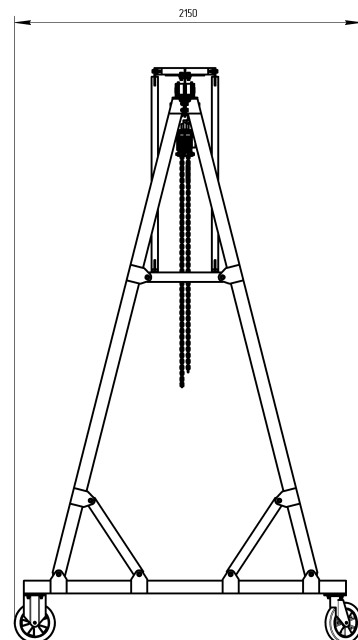
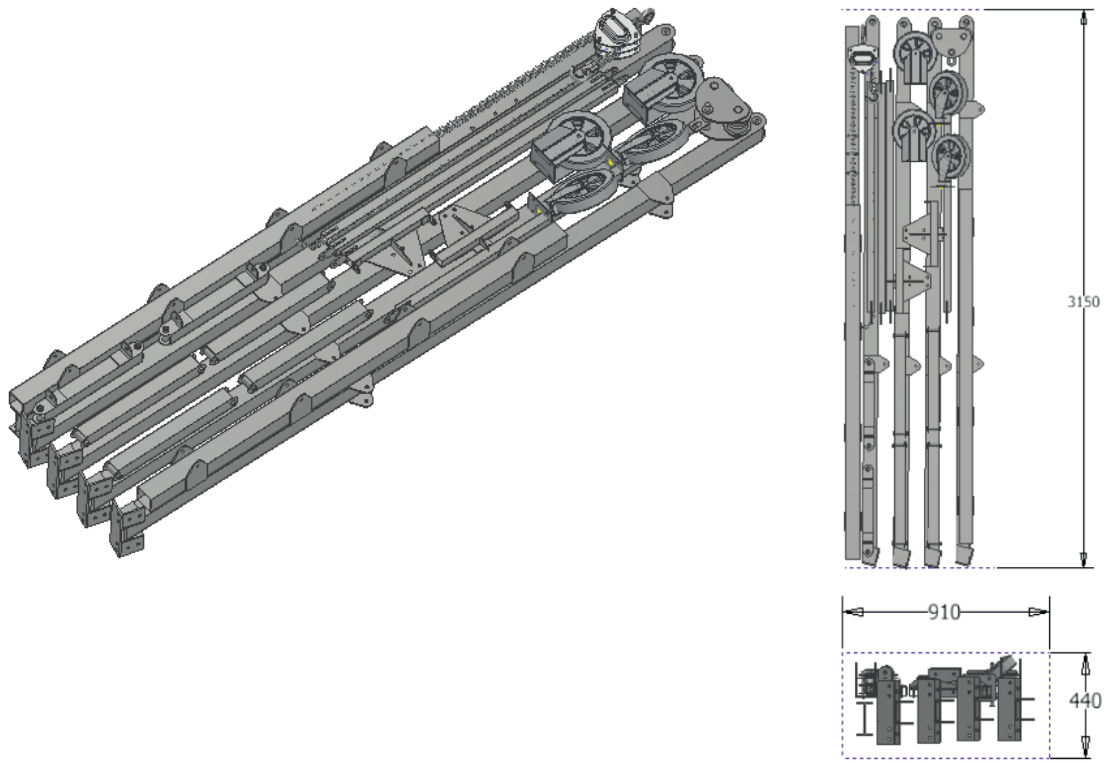


Figure 3

Overall dimensions in transport (stowed) position.



Options & Accessories

Examples of optional equipment for RAIL 500 mini include:

- Drawings Rail 500 mini-2025-EN-1
- Radio remote control (Pro configuration)
- Casters / transport kit for easier repositioning on site
- Travel limiters and stops for the trolley
- Hook suspensions and simple lifting accessories (slings, shackles, etc.)

Availability of specific options may vary depending on configuration and market; detailed option lists are available on request.