

Steel Prop

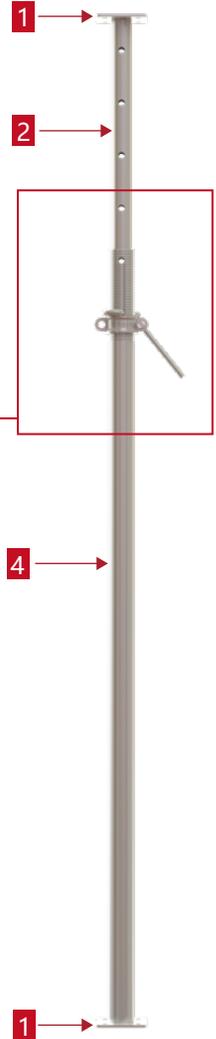
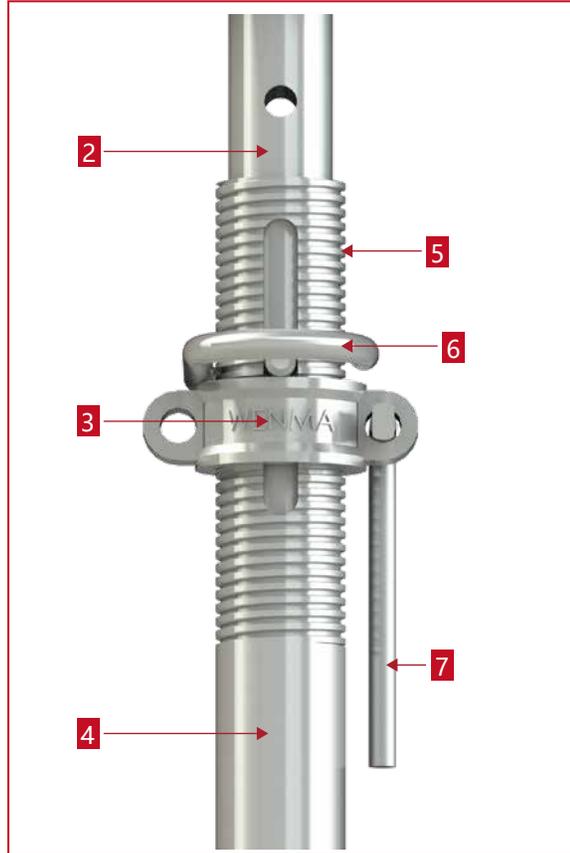
Product Introduction & User Guide



WENMA Steel Prop is a standardized construction support component that meets the load-bearing requirements of Class B35 under EN 1065 standard. Manufactured from high-quality galvanized steel, it combines excellent corrosion resistance with stable load-bearing capacity, with an applicable length range of 2.0-3.5 meters. The inner tube can bear a specific range of working loads at the top and bottom, and can be flexibly adapted to different construction heights. Widely used in formwork support, structural reinforcement and other scenarios in construction projects, it is a preferred construction support solution integrating practicality, safety and professionalism.

System Components

- 1 End plate
- 2 Inner Tube
- 3 Collar nut
- 4 Outer Tube
- 5 Threaded Sleeve
- 6 Cotter Pin
- 7 Handle



Product Specifications and Basic Parameters

Model	Working Length (Min-Max)	Working Load of Inner Tube on Top (Max-Min)	Working Load of Inner Tube at Bottom (Max-Min)
B35	2.0 m - 3.5 m	33.4 kN - 20.6 kN	33.4 kN - 22.7 kN



Working Loads at Different Heights (kN)

Model	Height	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
B35	Inner Tube on Top	20.6	21.8	23.5	25.2	27.1	29.1	31.2	32.5	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4
	Inner Tube at Bottom	22.7	24.5	26.6	28.9	31.5	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4

Core Advantages

- 1 Made of galvanized steel, featuring excellent corrosion resistance.
- 2 Fully designed in accordance with the load-bearing capacity specified in Class B of the EN 1065 standard.
- 3 End plates are equipped with identification marks required by standards, and the collar nut is marked with the WENMA logo.



- 4 The collar nut has a convex structure, simplifying the height adjustment process.

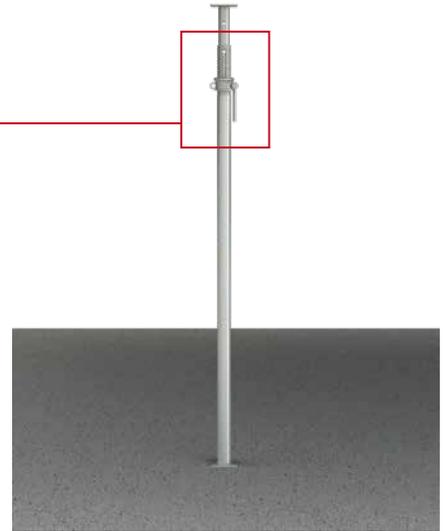


- 5 A 110mm safety distance is reserved to effectively prevent operators hands from being squeezed.
- 6 Equipped with anti-accidental detachment devices for the inner tube, cotter pin, and collar nut.
- 7 The thread of the collar nut is specially designed to facilitate the removal of dirt and concrete residues.

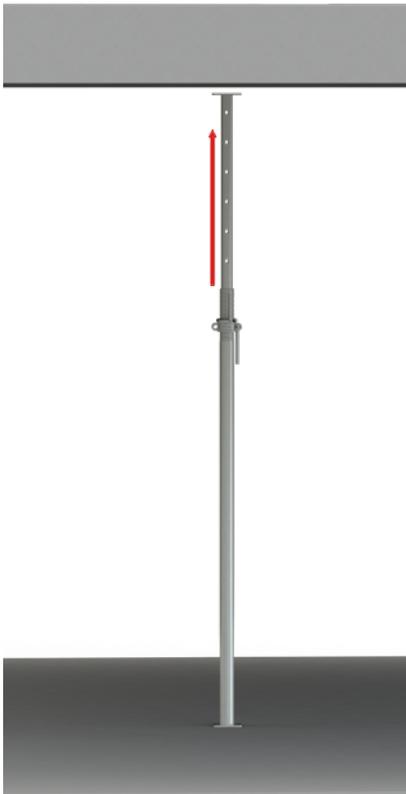
Installation and Dismantling Procedures

Installation Procedure

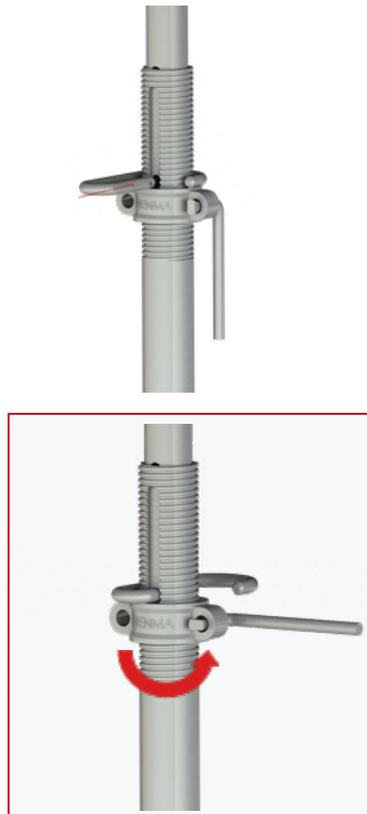
- 1 Use the handle to lower the collar nut until the thread groove of the steel prop is exposed.



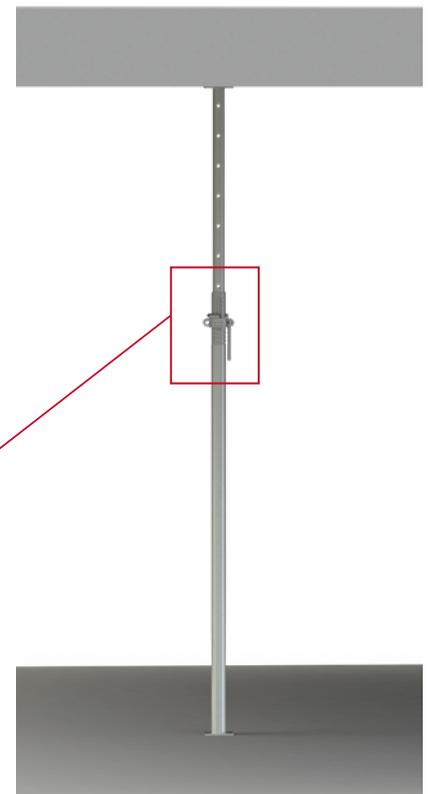
- 2 Stretch the inner tube to the required height.



- 3 Insert the cotter pin into the hole near the collar nut.

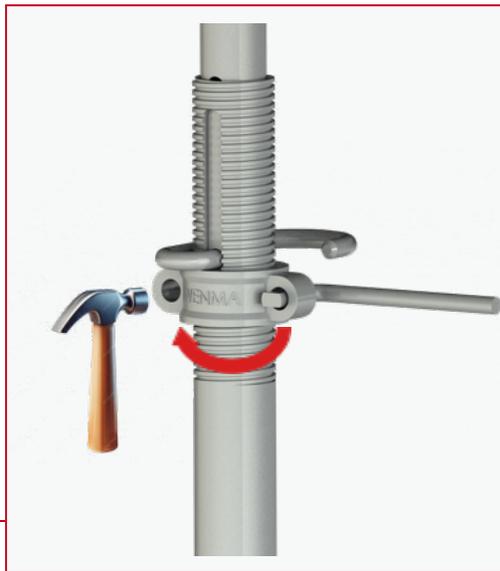
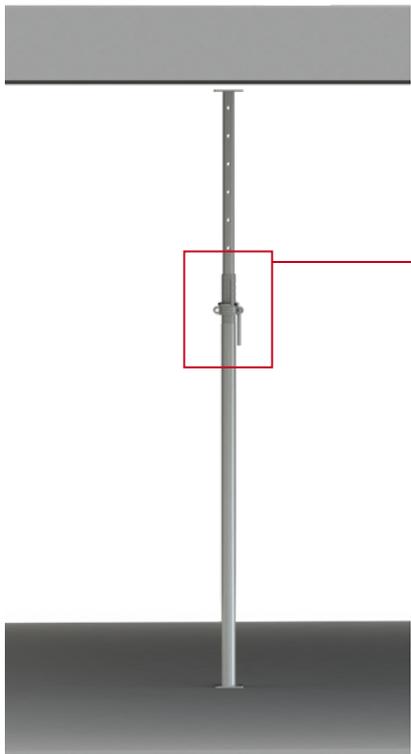


- 4 Rotate the collar nut for final adjustment until the steel prop is firmly fixed in place.



Dismantling Procedure

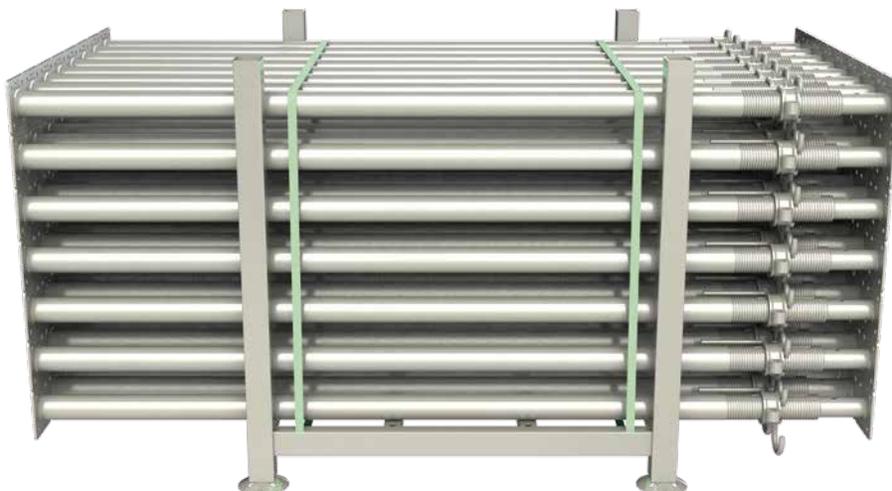
- 1 Manually loosen the collar nut with the handle; if necessary, tap the convex part on one side of the collar nut with a hammer until the steel prop is loosened.



- 2 Tap the cotter pin with a hammer to remove it from the hole (hold the inner tube tightly during operation).



- 3 Place the steel prop in the Scaffold Rack.



Handling and Maintenance Requirements

On-site Material Receipt

- 1 Enclose the operation area with railings or divide boundaries if necessary.
- 2 Before materials enter the site, clearly mark the storage area and make corresponding marks.

Material Unloading

1 Forklift Unloading

- Materials are delivered in bundles when entering the site.
- The person in charge of material receipt shall check the integrity of pallets or packaging.
- Clearly mark the forklift travel route to prevent collision accidents with pedestrians.
- Forklift operators shall place materials in accordance with the instructions of the warehouse manager.
- Warehouse managers and receiving personnel shall not stand within the forklift operation range.



2 Crane Unloading

- Unloading auxiliary personnel shall not stand under the suspended load.
- If it is necessary to guide the load into position, operate only when the load is close to the ground.

3 Manual Unloading

- When carrying the steel prop, ensure that the cotter pin and collar nut are in a fixed state to prevent the inner tube from moving.
- No single person shall carry a load exceeding 25kg.

Storage Requirements

- Steel props are delivered in pallets. After on-site use, stack the steel props alternately in both directions on the pallets to maintain load balance, and finally bundle and fix them.



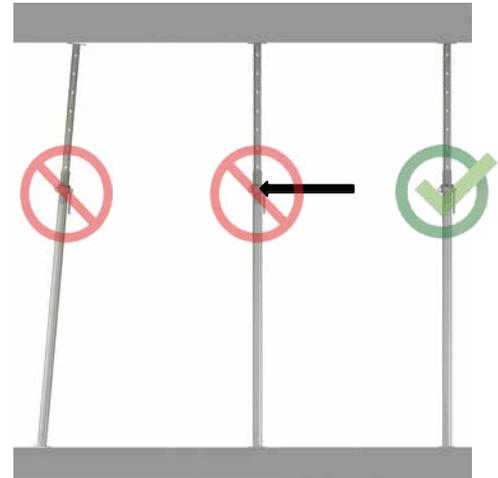
Material Lifting

- The two ends of the steel props shall be bundled into packages, and then hung on the tower crane hook with slings for lifting (or lowering) to the floor (or other positions).
- Check the condition of safety hooks and slings before lifting (or lowering).
- It is strictly prohibited to fix slings on packaging belts.
- Lifting packages or pallets with a single sling may cause center-of-gravity deviation and material falling, so such operations shall be avoided.
- It is strictly prohibited to pass under suspended loads or enter the construction machinery operation area.

Scrap Judgment Standards

- Steel props with the following conditions have potential safety hazards and are prohibited from use) :

1. Deformation: severe depression or bending of the outer tube.
2. Poor condition: corrosion of inner and outer tubes.
3. Missing components: lack of cotter pins, collar nuts and other parts.
4. Bottom plate deformation: bending of the bottom plate will affect the normal use of the steel prop.
5. Pipe fitting problems: severe protrusion or excessive deflection of the outer or inner tube.



General Safety Tips

- 1 The use of WENMA products shall comply with the current safety regulations of the country or industry organization where they are used.
- 2 The support surface of the steel prop shall be horizontal, flat and stable; if it is an inclined surface, wedge-shaped base plates shall be installed.
- 3 The steel prop shall be kept vertical, and the borne load shall be vertically centered without bearing horizontal load.



- 4 Steel props shall be used independently, and stacking is strictly prohibited.
- 5 Do not disassemble the steel prop or replace it with non-original parts.
- 6 Only use the handle to manually tighten or loosen the steel prop; it is strictly prohibited to tap the handle with a hammer.
- 7 Do not tap the bottom of the steel prop for formwork removal.
- 8 It is prohibited to use bent steel props with hole tears, welding marks or severe corrosion.
- 9 Without the consent of WENMA's technical department, it is not allowed to extend the steel prop or modify the end structure by stacking, adding or welding non-original parts.

Preventive and Corrective Measures

- 1 If there are special installation instructions, they must be strictly followed; otherwise, the installation process of the steel prop in this product manual shall prevail.
- 2 Comply with the manufacturers general instructions and internal safety standards.
- 3 Personal protective equipment must be worn throughout the construction process; employers shall provide workers with such equipment and guide them to use it correctly.
- 4 Personal protective equipment shall include at least a safety helmet, safety shoes, gloves and a tool belt; if necessary, additional fall-protection safety belts, lifelines, goggles or face shields, hearing protection equipment, respirators, reflective vests, etc., shall be worn to meet the health and safety requirements of the construction site.
- 5 Check the installation status of formwork and steel props before concrete pouring.
- 6 The pouring height shall be reasonably controlled to avoid severe shaking of the formwork or steel props.
- 7 Formwork removal and steel prop dismantling can only be carried out when the concrete strength meets the requirements.
- 8 Steel props shall not be stacked randomly after dismantling.



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