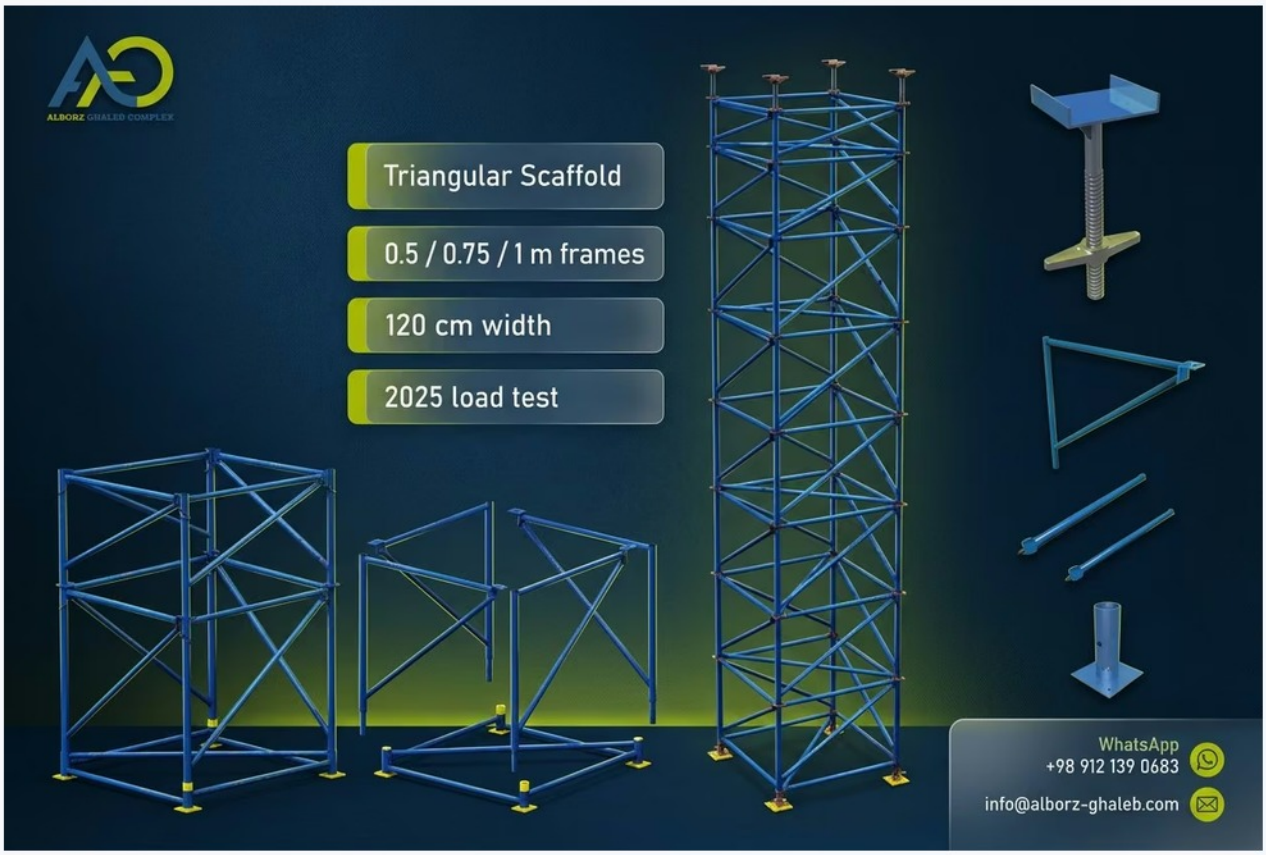
Technical Catalog – Triangular Scaffold / Omega Shoring



Triangular Scaffold / Omega Shoring

Slab, Beam and Bridge Deck Shoring System

Factory direct supply from Alborz Ghaleb, Karaj, Iran | Export-ready packing for Iraq, Armenia, Russia, Türkiye and GCC markets

- **0.5 / 0.75 / 1 m frame modules**
- **Common frame width: 120 cm**
- **CO2 weld and 2025 QC check**
- **WhatsApp sales: +98 912 139 0683**

Factory: Karaj, Kamalshahr, Behesht-e Sakineh Blvd, 4th Sharghi, No.80

Product Overview

What is triangular scaffold?

Triangular scaffold, also called omega scaffold or omega shoring, is a modular load-bearing system designed to support slab formwork, beams, bridge decks and heavy temporary concrete loads. Its triangular frame geometry helps the system assemble quickly and perform reliably in repeated shoring layouts.

- **Fast male/female frame connection**
- **Best for slab, beam and bridge shoring**
- **New and inspected used supply**

Key advantages for contractors

- **Fast assembly** — Pre-fabricated frames reduce the number of clamps, bolts and hand tools.
- **Vertical load support** — Triangular geometry and diagonal bracing help support formwork and fresh concrete.
- **Height control** — 0.5 m, 0.75 m and 1 m frames work with adjustable U-head jacks.
- **Reusable investment** — Frames can be moved from one pour cycle to the next when cleaned and inspected.

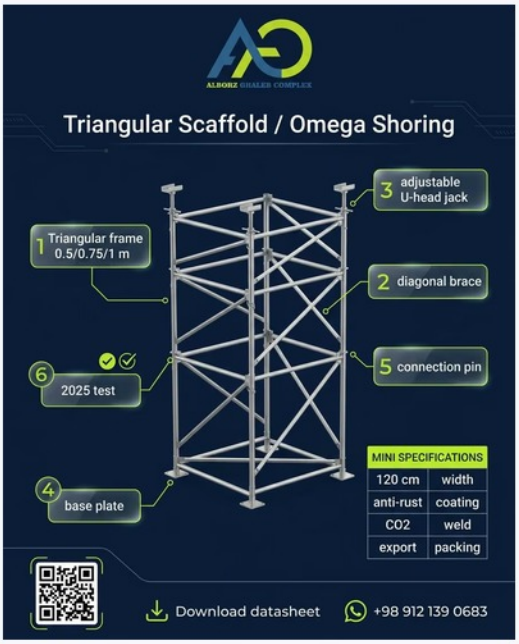
Technical Specifications

Approximate component data

Component	Common size	Approx. weight	Use
1 m frame	100×120 cm	9-11 kg	Main height
0.75 m frame	75×120 cm	7-8.5 kg	Height adjust
0.5 m frame	50×120 cm	5-6.5 kg	Final module
Brace	By layout	2-3.5 kg	Stability
U-head jack	40-100 cm	4-9 kg	Leveling
Base plate	15×15 cm	1-2 kg	Load spread

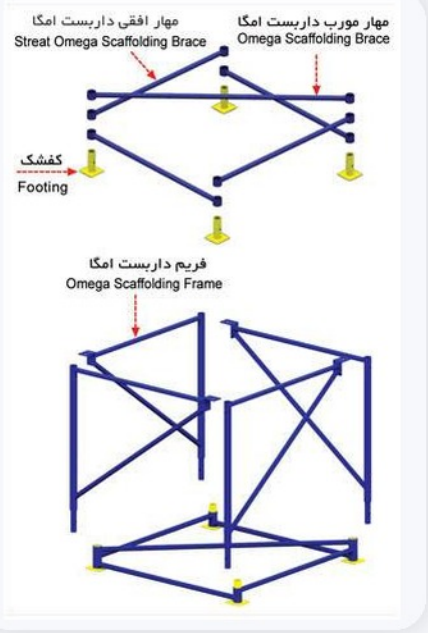
Technical note

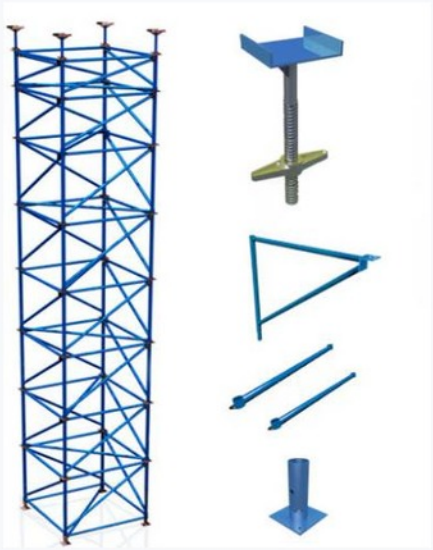
Weights are approximate and depend on tube diameter, wall thickness, coating and manufacturing method. A complete quotation should count frames, braces, U-head jacks, base plates and packing separately.

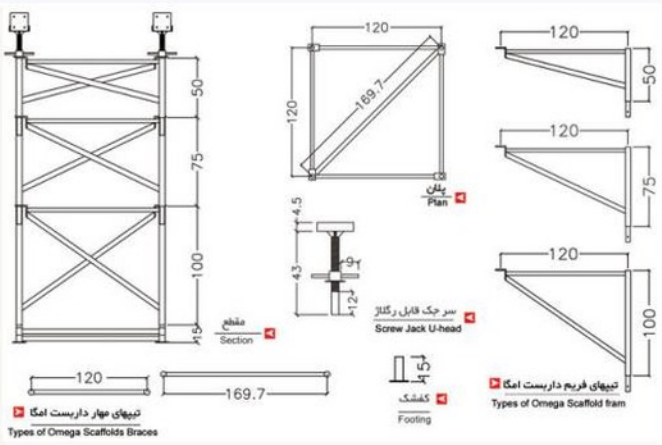


Applications and Real Project Photos

Images are placed inside proportional frames without cropping, so the product remains fully visible and the page layout stays balanced.







Slab formwork

Supports formwork, rebar and fresh concrete under slabs.

Bridge decks

Temporary vertical support for heavy bridge deck work.

Industrial projects

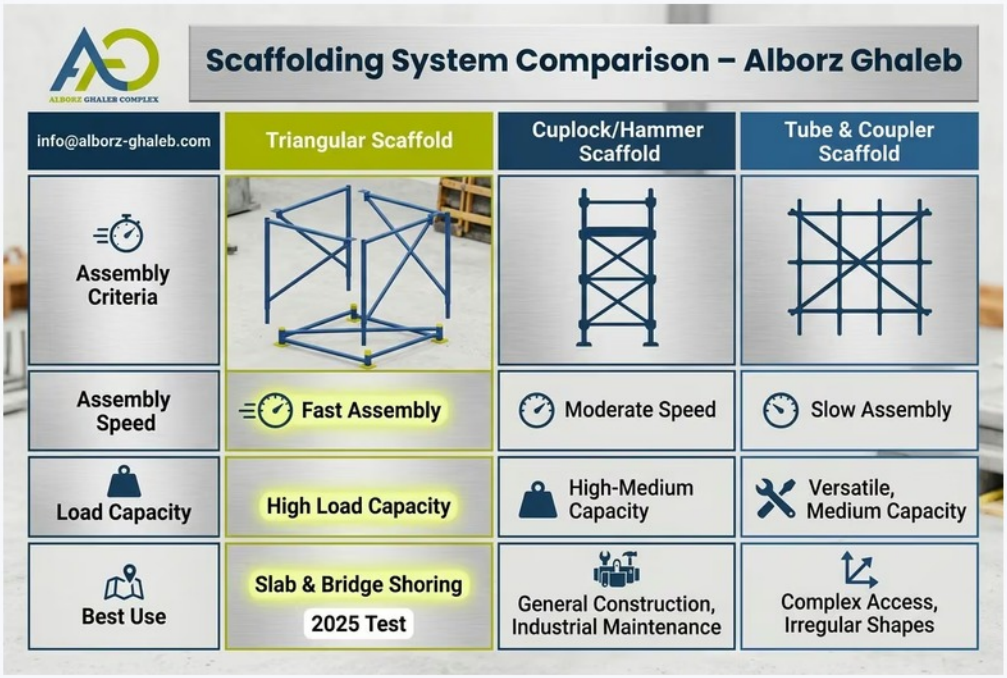
Useful in factories, warehouses and high-load temporary support.

Safe Installation Steps

1. Prepare a compact, level base and use base plates
2. Place the first row of frames on marked grid lines
3. Install horizontal and diagonal braces immediately
4. Build upper levels and complete bracing at each stage
5. Install U-head jacks and adjust final height
6. Inspect connectors, braces, base settlement and top level
7. Pour concrete in a controlled sequence without sudden local overload
8. Dismantle from top to bottom after technical approval

Safety warning: do not remove diagonal braces for easier passage before concrete placement. Asymmetric loading or excessive jack extension increases settlement and deformation risk.

Comparison and Price Factors



Triangular scaffold vs other systems

Triangular / Omega	Slab, beam and bridge shoring	Fast assembly and high vertical support
Cuplock / Hammer	Façade access and flexible platforms	More flexible for working decks
Tube & coupler	General light-duty work	Lower initial cost but slower assembly

How is price estimated?

Triangular scaffold price is based on frame weight, tube diameter, wall thickness, new or used condition, brace and jack quantity, current steel rate and freight cost. For a realistic quotation, send slab area and shoring height.

Quality Control and Maintenance

Purchase checklist

Match frame weight with the supplier table.

CO2 welds should be continuous and crack-free.

Bent or impact-damaged frames should not enter heavy projects.
Male/female connectors should fit without abnormal looseness.
For used frames, check deep corrosion and tube damage.
List pins, braces, U-head jacks and base plates separately.

Maintenance after each project

After each project, frames should be cleaned from concrete, mud and moisture. Braces and pins should be stored in separate boxes. Every 50 use cycles, check welds, straightness, connectors and jack threads. For transport, strap frames to prevent impact damage.

Used frames are economical only when they are straight, corrosion-free and structurally reliable. For sensitive projects, factory-new supply or technical inspection before purchase is recommended.

Quotation and Contact

Send slab area, shoring height, project location and new/used preference on WhatsApp. Alborz Ghaleb will calculate frames, braces, U-head jacks, approximate weight and freight cost.

WhatsApp / Sales	**+98 912 139 0683**
Support	**+98 935 139 0683**
Email	**info@alborz-ghaleb.com**
Factory address	**Karaj, Kamalshahr, Behesht-e Sakineh Blvd, 4th Sharghi, No.80**

Alborz Ghaleb Industrial Complex

Factory-direct concrete formwork, modular scaffolding, triangular scaffold, prop jacks and formwork accessories.