



SIGNAL Sombor fabrication

**Portals and semi-portals
Gantry structures**

Cantilever mast arm/Lattice towers

Signal's Certificates



EN ISO 3834-2



EN 1090-1 / EN 1090-2



EN 1090-1



EN 12899-1



ISO 14001



ISO 9001



ISO 45001



ISO 27001



ISO 22301



ISO 5001



ISO 39001

Fabrication of Gantry & Overhead Sign Structures According to Client Project Documentation

Signal Sombor specializes in the design, fabrication, and delivery of high-quality steel gantry sign structures and overhead traffic signs.

Every gantry and portal we produce is strictly manufactured according to client project documentation provided by certified traffic and civil engineers. Our production ensures structural integrity, compliance with European standards, and long-term durability of your traffic signage.



Designed by You — Fabricated by Signal Sombor

Our team fabricates each gantry sign structure and overhead sign in strict accordance with the client's project documentation. All structural dimensions, load specifications, foundation and anchor plate details, and corrosion protection requirements are followed precisely.

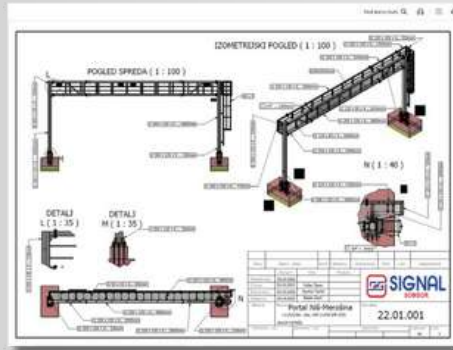
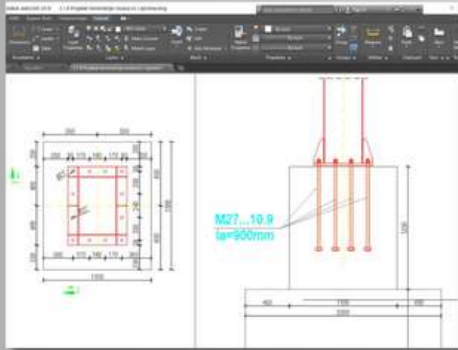
Every portal, cantilever, and semi-portal structure is engineered to meet technical standards while ensuring long-lasting performance for traffic management applications.



Your Documentation Defines the Structure

Signal's production follows DWG/PDF technical drawings, load and wind calculations, material specifications, foundation design, anchor plates, and anticorrosion requirements exactly as defined by the client. Compliance with EN ISO 3834-2 welding standards and EN 1090-1 / EN 1090-2 certifications ensures every welded connection and structural assembly meets European quality benchmarks.

- DWG/PDF technical drawings
- Load and wind calculations
- Material specifications (steel grades, profiles)
- Foundation and anchor plate design
- Anticorrosion protection requirements



Types of Structures We Fabricate

Signal produces a comprehensive range of gantry sign structures for highways, urban roads, and regional traffic networks. Our portfolio includes full-span portal gantries, flexible semi-portal configurations, asymmetric cantilever structures, T-shaped portals, and durable lattice towers.

Every overhead sign structure is fabricated according to client-defined project documentation, incorporating load class requirements, wind and seismic calculations, safety regulations, and site-specific installation conditions. This ensures that all our gantries, cantilever supports, semi-portals, T portals, and lattice towers meet the highest standards of structural integrity, longevity, and compliance with EN 1090-1, EN 1090-2, and EN ISO 3834-2 certified fabrication standards.

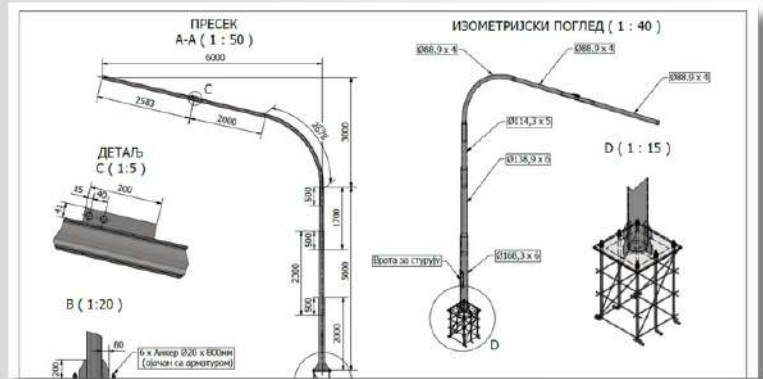
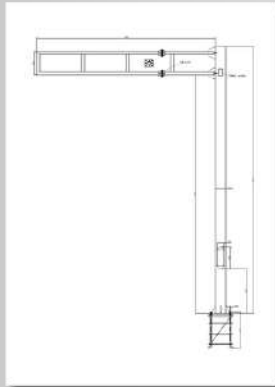
Portal (Two-Column) Gantries

Full-span gantry structures designed for multi-lane highways. Engineered for maximum stability, these overhead signs support large guide panels, variable message signs, and traffic control devices while meeting EN 1090-2 certified fabrication standards.



Cantilever (One-Sided) Structures

Cantilever overhead sign structures are suitable for roads where a full-span gantry is unnecessary. They allow installation of traffic signs while minimizing structural footprint and installation complexity.



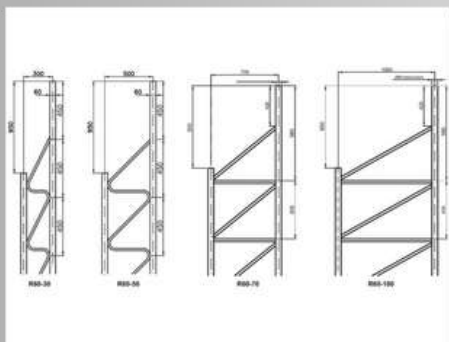
Semi-Portal Configurations

Semi-portal gantries combine full-span and cantilever elements to fit complex road geometries or limited space conditions. These structures maintain the strength of full-span gantries while optimizing material use and installation efficiency.



Lattice Towers

Signal produces lattice towers for traffic and overhead signage according to client project documentation and static calculation requirements. While several standard models are regularly manufactured, most lattice towers are custom-designed to meet structural loads, wind resistance, and site-specific conditions. All structures comply with EN 1090-2 and EN ISO 3834-2 certified fabrication standards.



Custom Fabrications

From non-standard gantries and overhead sign supports to large lattice-tower structures, we deliver fully customized steel solutions tailored to each project.

Based on the technical drawings and specifications provided by our cooperators, our production team manufactures custom spans, geometries, and connection details while ensuring full EN ISO 3834-2 welding compliance and EN 1090 conformity across all components.



Supporting Components: Holders, Anchor Plates & Steel Cages

In addition to the main gantry and overhead structures, Signal fabricates all supporting components necessary for safe and durable installation.

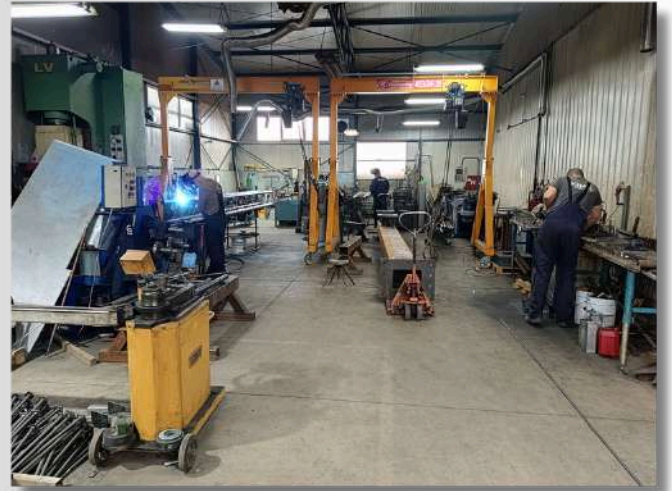
Our portfolio includes portal holders and sign carriers designed for any board size, precision-cut anchor plates for secure foundation mounting, and steel reinforcement cages for concrete footings.

Each component is engineered according to project specifications and complies with EN 1090-2 and EN ISO 3834-2 standards.



Production Capabilities

Our production facility is equipped with modern machinery allowing high-precision fabrication of all structural components, from anchor plates and base columns to full-span beams.



Fiber Laser Cutting (Sheets & Tubes)

We operate two high-performance fiber laser systems: a 12 kW sheet metal fiber laser dedicated to cutting anchor plates, gussets, stiffeners, holders, and other flat components, and a 3 kW tube and profile fiber laser used for tubular and profile elements within its capacity range.

This dual setup enables high cutting precision across both flat and tubular parts and supports accurate fit-up and alignment of gantry components during assembly



Certified Welding and structural assembly

Our fabrication process complies with EN ISO 3834-2 and EN 1090-1 / EN 1090-2 (EXC2) certification requirements. All structural welds are executed in accordance with approved Welding Procedure Specifications (WPS), each qualified through Procedure Qualification Records (WPQR) in compliance with EN 1090-2. Relevant welding documentation is provided as part of project documentation when required by the client.

Welding is performed using widely applied industrial processes — MIG/MAG (135/136), TIG (141), and manual arc welding (111) — selected based on material type, joint design, and structural load requirements.

All welding work is carried out exclusively by certified welders holding valid ISO 9606-1 qualifications, ensuring proven competence across all required materials, joint configurations, and welding positions. This ensures consistent quality, full traceability, and structural reliability for all fabricated components, including columns, beams, carriers, anchor plates, tubular elements, and lattice tower sections.



Column & Beam Fabrication

We produce structural elements including circular columns, rectangular profiles, and custom beams tailored to the project design.



Assembly of Mid-Sections

Main spans, reinforcement elements, and cross-members are assembled under controlled workshop conditions for guaranteed precision.



Surface Protection

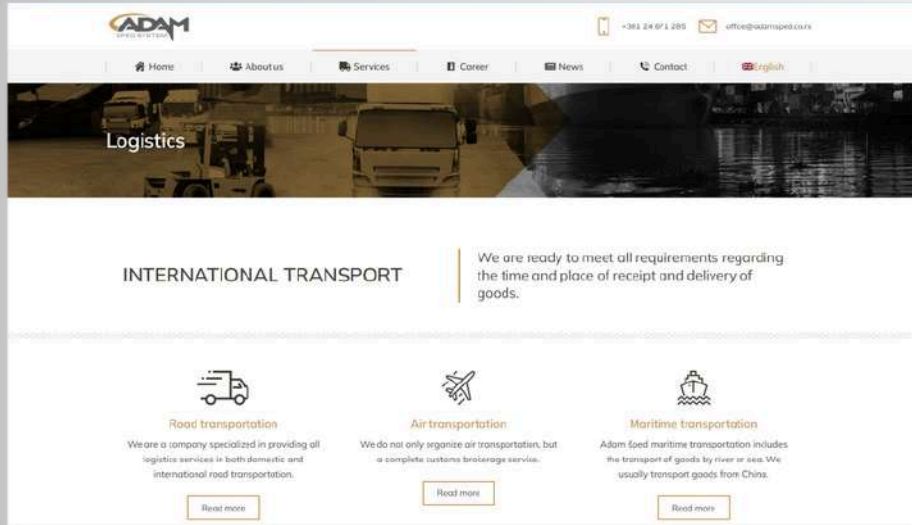
All steel components are hot-dip galvanized through our trusted partner facility "[Metalcinkara](#)" in Indjija, with whom we have cooperated for over a decade.

The process is performed according to EN ISO 1461, providing long-term corrosion resistance in demanding environmental conditions.



Delivery & Installation

SIGNAL organizes deliveries across Europe in cooperation with licensed international carriers. Among our most trusted partners is [Adamsped](#), one of Serbia's leading logistics companies.



Shipments are either loaded directly at our facility or transferred to a customs terminal, where forwarding partners manage export clearance and onward transport. With regular deliveries to Switzerland and proven experience in other EU destinations, SIGNAL guarantees safe, documented, and timely delivery of certified steel components.

All gantry and semi-portal structures are fabricated in modular sections. Even when spans reach 12 meters (or more), they are divided into elements no longer than 6 meters, ensuring that the longest transport piece is typically a column.

With standard freight trailers of 13.6 meters, delivery is performed without oversized permits, making transport efficient, cost-effective, and reliable across Europe.

We support all logistics requirements, including professional packaging, secure loading, and complete transport documentation for export partners.

