



## **ZEMAN TURNKEY SYSTEM** for structural steel fabrications

### **ZEMAN “Competence in Steel”**

The competence in the constructional design and delivery of TURNKEY SYSTEMS by ZEMAN is underpinned by 45 years' experience in the structural-steel and mechanical engineering sectors.

This almost unique combination leads to a comprehensive understanding of all demands and working procedures in the field of structural steel workshops. Machineries necessary for the increase of efficiency and competitiveness are invented and used by ZEMAN proprietary workshops in Austria, Poland and Turkey. ZEMAN comes with expert knowledge regarding all requirements for the production area (power input, consumer goods etc., office facilities, media connections and social rooms.

Proven technology and best practice is made available by means of a “one stop shop” principle. ZEMANs innovations are always one step ahead of the competition and allow for quantum leaps into a new era of structural-steel fabrication.

### **Usage of SIN beams “Corrugated Web Beams”**

Due to its revolutionary production concept, continuous efforts to improve static weight calculation and high level know-how in mechanical engineering, ZEMAN has invented an exceptional building element and a technically sophisticated machine so-called SIN beam machine.

SIN profiles combine large spans and light weight of lattice girders with low beams height and high load-bearing capacity of ordinary girders.

ZEMANs SIN beam line offers secured quality, short terms of delivery through fully automated welding process and huge cut of costs due to weight optimizations of beams. Spans up to 45m can be bridged with a max. web height of 1,5m.

Due to their characteristic shape, SIN profiles reflect outstanding appearance and are a new and inspiring element of architectural design.

### **Innovative Software**

Production data are imported directly from any standard CAD system, transferred by standard machinery interfaces and then executed by the respective machines. ZEMAN provides technical specifications for network and data processing systems, software solutions for design- construction and workshop drawings, material handling and work preparation. Machinery software is teachable and remote-maintainable.

### **Simple dimensioning**

ZEMANs proprietary design tables accelerate calculation of dimensions and costs. Technical documentation, load bearing capacity tables, design details and expert reports are made available by ZEMAN.

## **Training**

Detailed training schedules are prepared by ZEMAN. Training will be done on all machines, software programs, design and static calculation as well as on practical processing and manufacturing of structural steel works.

## **Engineering support**

ZEMAN offers design & engineering support for the starting period of the plant. Numerous ZEMAN engineering offices in eastern and central Europe are prepared to assist in project design and implementation on profit-sharing basis.

## **Layout of hangar and choice of machines**

The smart design layout of the turnkey plant and choice of appropriate machines brings benefits such as:

- High plant productivity
- Optimized work flow of material
- Accurate positioning of machines to avoid idle times
- Wide production range
- Costs effectiveness by reduced need of personnel, low energy consumption and warehousing costs
- Maximum output in tonnage of structural steel by minimum usage of resources and plant area
- Low defect rate by usage of fully automated machines and high precision robots

**SWIFTLY, ACCURATLY, COST-EFFECTIVELY IN TOP QUALITY**

**JOIN ZEMAN**

**TO STEP INTO THE NEW DIMENSION**

**OF STRUCTURAL STEEL**

**FABRICATIONS**