



**ZEN**  
TECHNO ENGINEERING



**PRECISION IN LASER CUTTING, BENDING, ASSEMBLY  
FABRICATION & SURFACING**

[www.zentepl.com](http://www.zentepl.com)



# ZEN TECHNO

## PRECISION LASER CUTTING, BENDING, ASSEMBLY & FABRICATION, SURFACING

ISO 9001:2008 certified (By TUV Rheinland)

### COMPANY PROFILE

Company ZEN TECHNO ENGINEERING occupies itself with processing of metal sheets in accordance with the customer's demands by use of CNC LASER cutting by use of Laser cutting machine, bending by use of CNC brakes, etc. The company supplies metal sheet parts to MNC customers. The aim of company is to supply exact and meticulous parts in given quality as required by the customer. Quality management in ZEN TECHNO has been certified since August 2015. The system of quality management of the company ZEN TECHNO was authorized by the company TUV Rheinland in accordance with EN ISO 9001:2008

#### HISTORY:

The company was set up by 3 partners in 2014. The company was registered at the Regional Court in Pune jurisdiction, Maharashtra on 20<sup>th</sup> April 2014. With growing experience, high quality and reliability, the company succeeded in winning a portfolio of various multinational companies in short time and gradually started to increase its capacity by gradual expanding of its machinery and by a growing number of its employee. Another important milestone for the company was acquiring of the ISO:9001 certificate in October 2015 from the auditor company TUV-RHEINLAND GERMANY. You will find the copy of the certificate in enclosures. In May 2017 we have started new unit for SS fabrication named as ZEN Techno unit no. 2. The company cooperates with more than 17 MNC's customers and in 2016 there were 6 strategic and 16 main customers, who formed the majority of the company's turnover.

In the last 3 years, the company has been following an expansion strategy: individual strategic decisions were directly aimed at an expansion of the existing fields of business, the company particularly invested into human capital, new technologies (production as well as information) and production areas. ZEN TECHNO Company, thanks to its development, is further able to fully comply with the needs of its customers, it is able to maintain high flexibility and high-quality expert and technical security while processing the submitted projects.

#### TECHNICAL AND PRODUCTION FACILITIES

DIVISION OF METALLURGICAL MATERIAL

#### LASER CUTTING:

This technology is suitable for cutting, possibly also for marking no matter how complex shapes into flat work pieces from constructional as well as high-quality steel and carbon alloys into thickness mentioned below. This technology guarantees a cutting area without burrs and oxides without scratching of the surface. Programming in JET/CAM guarantees high accuracy of production and maximum use of work piece surface.

#### Available are:

Bystronic: Bystar L4400 (Swiss made)

#### Parameter:

Max. Size of the metal sheet 2500 x 6500 mm

#### Max. Thickness of material:

Black material. MS	25
In corrodible material. SS	20
Aluminum/Copper	8

## **BENDING OPERATION OF METALLURGICAL MATERIAL CNC BENDING:**

Power brakes of the bystronic are suitable for flexible and productive work. However, the key to effective charring is not only advanced technology and intelligent tools, but mainly sensor technology. The angle detector ACB (Automatically Controlled Bending), developed and patented by the company Bystronic, is a supplement of exact measuring and correction of the angle of the bend.

### **Available are:**

Bystronic XACT 3100-	300 ton/3100 mm-	2 nos.
Bystronic XACT 6200-	600 ton/6200 mm-	1 nos.

### **Parameters:**

Max. Thickness of material: - 0.5 to 16mm

## **WELDING**

The company performs resistance spot welding, and welding using the methods MAG, MIG and TIG. Welding is done by trained personnel with a valid examination (in accordance with CSN EN 287 and CSN 050705) for the given welding method in the required quality level in accordance with CSN EN 5817 under the supervision of a welding technologist.

### **WELDING USING THE METHOD OF MAG, MIG**

The sources are able to weld (point) average quality steel, corrosion-proof steel, zinc -coat in the thickness of material from 0.5 mm to 6 mm.

### **Available are:**

WARP	14.4kVA	2 nos.
KEMPPI	18 kVA	2 nos.

### **WELDING USING THE METHOD OF TIG**

These welding semiautomatic machines are able to weld a whole range of materials (e.g. average quality steel, corrosion-proof steel, zinc-coat, aluminum and copper). Welding is performed in protective atmosphere of ARGON and CORGON.

### **Available are:**

KEMPPI (pulse mode)	20 kVA	1 nos.
SELCO (pulse mode)	10 kVA	1 nos.

## **FITTING WORK**

➤ Drilling
➤ Reaming
➤ Threading
➤ Threading

## **SURFACE TREATMENT, POWDER VARNISHING (COATING)**

Blasting is done in accordance with ISO: 9001:2008 in the quality of sa 2 1/2 blasting.

### **TECHNOLOGICAL PROCEDURE:**

1. Chemical degreasing (pickling)
2. Rinsing- first degree
3. Rinsing- second degree
4. Zn phosphate coating
5. Passivation
6. Hardening
7. Sand blasting
8. Hot dip type galvanizing
9. Electro plating

## **MACHINING**

CNC & VMC is the largest one-stop solution for computerized machine cutting tools. We have an in-house facility to do precise JOB WORK on Vertical Machining Center (VMC) which have maximum table capacity 1000x600x600 mm. This machine is capable of manufacturing defect-free and dimensionally accurate components to be used in various industries. We offer customization facilities to our clients according to the drawings and samples provided by them. These are manufactured using high quality SS, MS and other alloys.

### **Available are:**

#### **VMC:**

VMC RFW-	1000x600x600mm	1 nos.
VMC RFW-	600x600x600mm	2 nos.

#### **CNC:**

Jyoti-	500x500mm	2 nos.
Ace micromatic-	500x500mm	2 nos.

## **DESIGN WORK**

We are able to design own devices and tools, create drawing documentation in accordance with supplied samples and help with solution of design problems.

### **Softwares**

CATIA
Auto Desk Inventor
Auto Cad 2015
Bysoft 6 & Bysoft 7 (Nesting software)

## **CERTIFICATION**

Company ZEN TECHNO ENGINEERING PVT LTD practices and observes an established quality system in accordance with ISO: 9001: 2008. It owns a certificate of the quality system by the company TUV-RHEINLAND GERMANY. Company is able to create, take into account and observe individual checking procedures for its customers as well as for individual parts. All purchased material is examined in accordance with reception plans and checking procedures. Each product is checked before the beginning of the following operation. Before expedition, each order produced in ZEN Techno is checked in accordance with relevant reception plans and checking procedures. Further activities of ZEN techno arising from the established quality system in accordance with ISO: 9001: 2008.

## OBTAINED CERTIFICATE

Certificate of the quality system ISO: 9001: 2008.
Certificate of the quality system for welding
Certificate of inspection MIG
Certificate of inspection of TIG
Certificate of Liquid penetrant testing

## CONTROL OF QUALITY

The company Zen Techno Engineering conforms to all standards of the ISO: 9001: 2008 directives.

### Input control

All purchased material is examined in accordance with reception plans and checking procedures.

### Inter- operation control

Each product is checked before beginning of the following operation.

### Output control

Before expedition, each order produced in ZEN Techno s.r.o. is checked in accordance with relevant reception plans and checking procedures.

## QUALITY POLICY CUSTOMERS

Our company endeavors to satisfy the need and expectations of our customers and to rank among the popular and much-acclaimed producers by means of its products in the field of metal sheet laser cutting, metal sheet cutting and bending by means of CNC machines, and application of powder paints.

## SUPPLIERS

The establishment of long-term relations to our suppliers, based on mutually favorable cooperation, contributes to the fulfillment of our requirements.

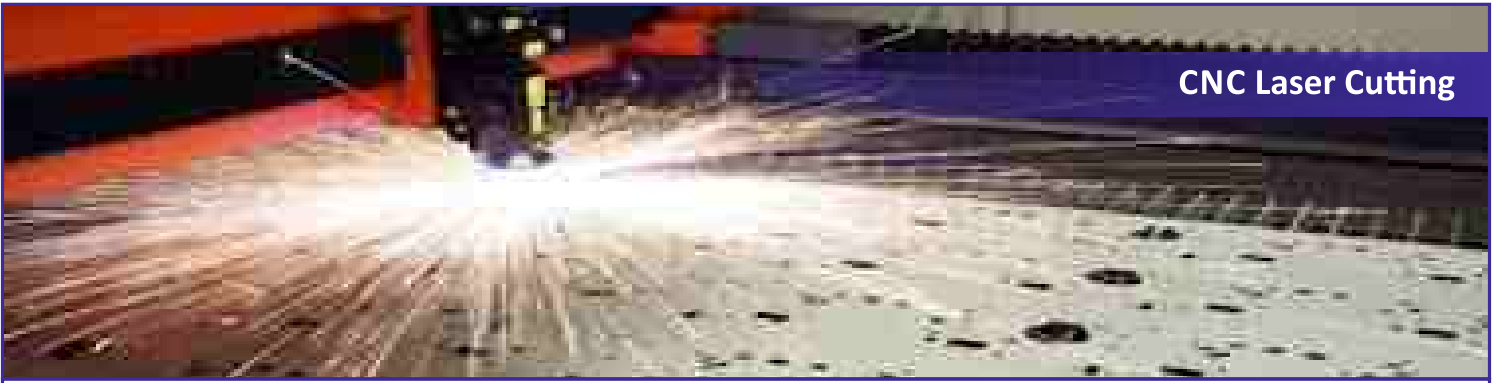
## INFORMATION SYSTEM

The ability to react and decide flexibly is based on topical information, getting of which is supported by effective use of the information system.

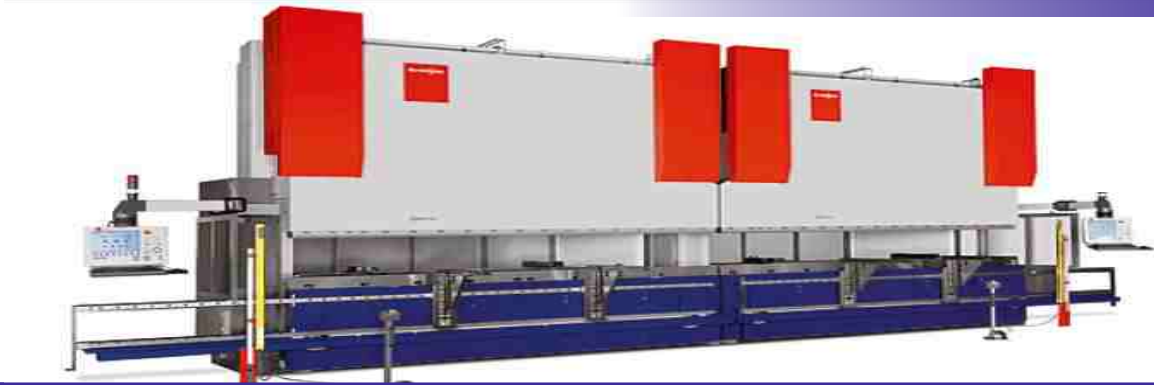
## EMPLOYEE

By means of goal-directed education and motivation of employees, together with the support of Team cooperation, the company creates a sense of responsibility for activities performed. The company management undertakes to create appropriate conditions and to provide necessary re-sources for making all the processed and activities supporting the increase of competitive strength of the company more effective.

CNC Laser Cutting



CNC Press Break



Precision Fabrication





# PRECISION IN LASER CUTTING, BENDING, ASSEMBLY FABRICATION & SURFACING



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