



MEHTA
MEHTA CAD CAM SYSTEMS PVT LTD

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Mehta's Controller & Software
Based on **BECKHOFF** Hardware and
Ethercat Technology With IOT (Germany)



4th GENERATION MACHINE

GLORIA FIBER LASER METAL CUTTING MACHINE

1000W / 1500W / 2000W / 3000W / 4000W / 6000W / 12000W

About Us

The excellent reputation in the global market

equipped with key components from well known genuine brand form U.S.A., Germany, Russia, China

Mehta Cad Cam has pioneered Laser, CNC & Digital Printing Technology applications in the wide diaspora of the Indian industry.

Constant innovations & Progressive investments over last 30 years makes Mehta Cad Cam the largest organization with three huge manufacturing plants & Head office in Ahmedabad. Over 22 branch offices across India, employing over 600 people and a developing distribution network world wide make Mehta Cad Cam the Market Leader.

Organization core values: Passion for Quality Service & Technology. Our in-house State of art R&D facility clearly shows our passion for quality which gives us cutting edge to our integrated automated manufacturing unit.

Our products include fiber laser metal cutting machines, laser welding machines, Co2 laser engraving & cutting machines, online and offline marking machines for various applications for wide range of fields in different industrials. At Mehta's we also provides solution for all robotics solutions for laser cutting, welding in co2 and fiber laser.

We at Mehta Cad Cam are committed to constantly develop products and its applications to serve customers by educating them of the new advancements in technology, thus enabling them to grow their business and stand competition across globe.

We have strategic partnerships and collaborations with key component manufacturers in Germany, USA, Russia, China, etc. The integration of these quality key components makes Mehta Cad Cam Systems products well known for its reliability and performance not only in India bu across globe.

Spectrum of Services

Project consultancy

Pre installation support

Onsite Installation

Training

Machine optimization

Preventing maintenance support

Onsite trouble shooting

Remote assistance

Component repairing

Spare parts support

Your satisfaction, happiness and growth

Professional nesting solution

Saving expensive metal sheet and saving total cutting time is most important to increase profitability and productivity. Our advanced Nesting and cutting software is the solution to both these requirements. This software will increase your programming efficiency, material utilization & cutting productivity dramatically.

The major advantage of Professional Nesting Software

Professional Nesting Software (Optional)

Import

- It can import any numbers of files at single time
- It can import DXF, DWG, CDL, IGES files
- Interactive mapping (geometry correction, string tags, layer mapping, multiple parts)

Nesting

- It can nest any numbers of sheets together
- It has a multiple nesting strategy
- Automatic common line nesting with multiple strategies.

Programming

- Multiple Cutting orders
- Part Avoidance, Auto Bridge, Auto tabs and auto chain
- Automatic cropping of remnant
- Common line strategies
- I-Pierce (for pierce reduction)

Other Advantages

- Can manage compensation from software itself (Kerf in computer)
- Can mange part library
- Multiple leading / Leadout options
- Sheet inventory management
- And many more...

Please contact at
92279 85721

Application Industries

Applied in Sheet

- **Metal Sheet Processing**
- **Aviation**
- **Aerospace**
- **Electronics**
- **Tube Fitting**
- **Automobile**
- **Food Machinery**
- **Textile Machinery, Precision Parts**
- **Ships**
- **Metallic Equipments**
- **Elevators**
- **Household Appliances Kitchen**
- **Utensils and Applications**
- **Craft Gifts**
- **Tool Processing**
- **Decoration**
- **Advertising**
- **Job Shops & Many other Manufacturing Industries**

Range of Materials that can be cut

- **Mild Steel**
- **Stainless Steel**
- **Aluminum**
- **Brass**
- **Copper**
- **Galvanized Sheet**
- **Titanium & more**



Raytools Cutting Heads



AC Servo Motors



High Precision Helical Rack and Pinion



Low Backlash, Noise Less, High Precision Gear Box



Heavy Duty Structure



Aluminium Casted Beam



Maintenance & Trouble Free Chiller

Machine Features

High quality rack & pinion, LM guide, gear box

effectively ensure laser cutting speed and accuracy.

Machine frame and worktable adopts integrated welding made as standard large machine after stress relief annealing, machining on plano miler and then the vibration aging treatment. These sequence of processing of frames makes it high strength, high precision and keep the normal use of 20 years without deformation.

X and Y axis equipped with A.C. servo motors and aluminum casted cross beam gives high precision, high speed, big torque inertia, performance stability and durability, guarantee the high speed and acceleration of the whole machine.

Raytools Auto-focus Cutting Head for 6kw : BM 115

- Integrated design to ensure sealling.
- Both collimation and focus lens are water cooled.
- Air cooling to nozzle which effectively protects the nozzle & ceramic part and extend the lifespan.
- Compact structure to reduce the payload of Z axis.
- 35mm clear aperture to effectively reduce stray beam interference and guarantee cutting quality and lifespan.
- Auto focus to reduce human intervention.



BT 240 Cutting Head



BM 109 Cutting Head

Gloria EX

For 1KW, 1.5KW

EX-1530



EX-1530 TC



Working Area: Standard

1300 mm x 2500 mm

1500 mm x 3000 mm



BM 109
Cutting Head

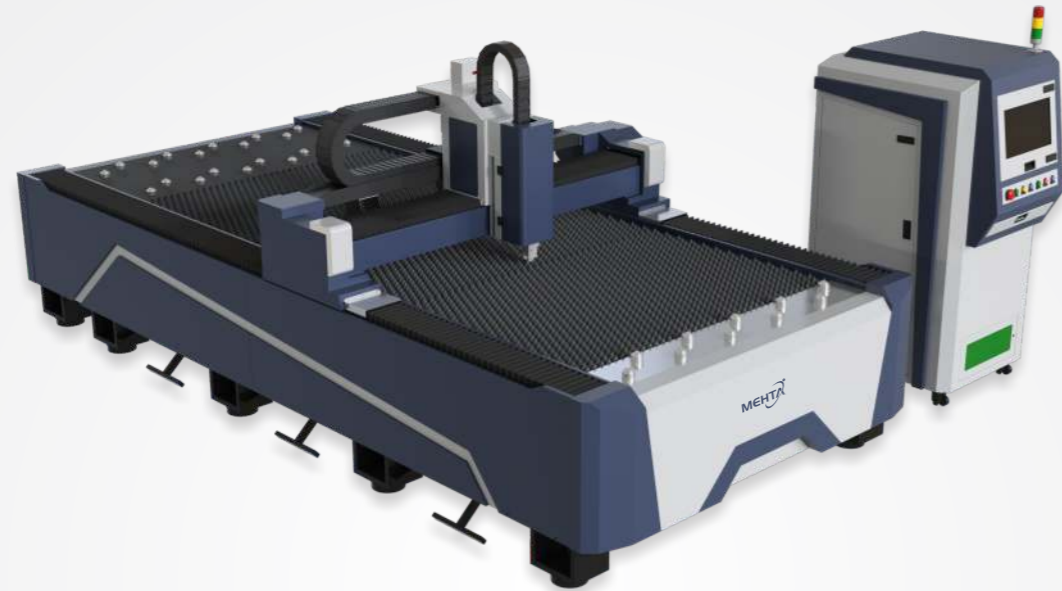


BM 111
Cutting Head

Gloria FX

For 2KW, 3KW

GLORIA-FX 1530



GLORIA-FX 1530 R6



Working Area: Standard

1300 mm x 2500 mm

1500 mm x 3000 mm

2000 mm x 4000 mm

2000 mm x 6500 mm

Any size can be manufactured as per customer's specifications.



BM 111
Cutting Head



BM 114
Cutting Head

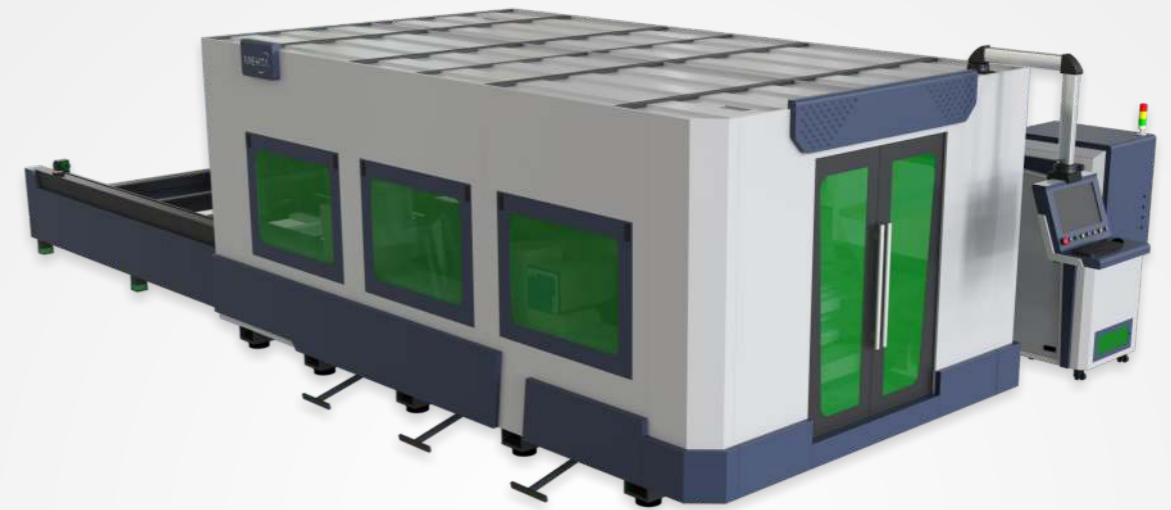


BM 115
Cutting Head

Gloria ZX

For 4KW, 6KW

GLORIA-ZX 1530 CTC



Our close body structure is designed with side door opening which is very convenient for operations & maintenance.

GLORIA-ZX 1530 TC-R6



Working Area: Standard

1300 mm x 2500 mm

1500 mm x 3000 mm

2000 mm x 4000 mm

2000 mm x 6500 mm

Any size can be manufactured as per customer's specifications.



BM 109TC
Cutting Head



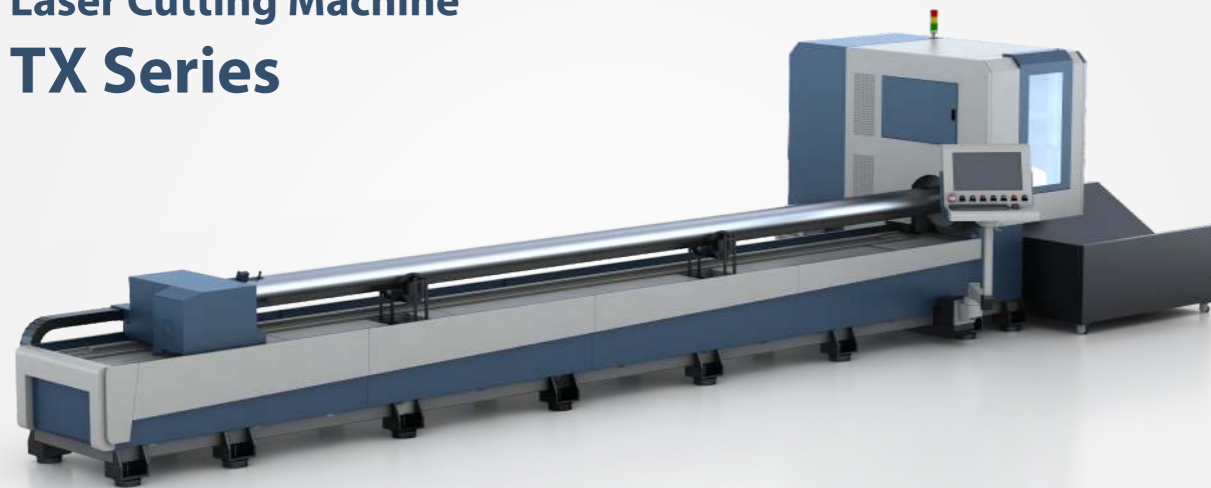
BM 111TC
Cutting Head

Gloria TX

For 1KW, 2KW, 3KW

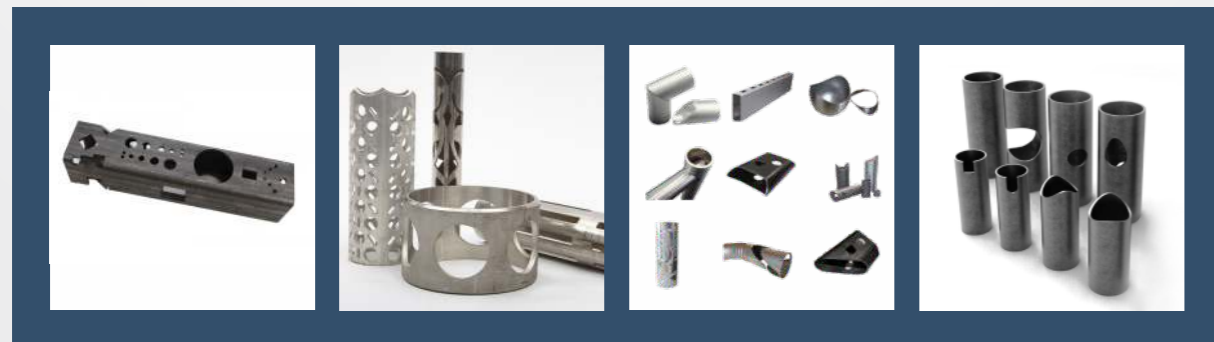
GLORIA-TX-L3 / L6
(3 mtrs x 6 mtrs)

Professional Tube Laser Cutting Machine TX Series



Tubes

Professional cutting of square tube, round tubes, rectangle tubes, D-shaped tubes, hexagon tubes, etc. Cutting capacity of; Square tubes: 20 mm x 20 mm to 150 mm x 150 mm; Round tube: 20 mm to 210 mm dia, thickness 0.5 mm to 10 mm carbon steel tubes & 0.5 mm to 10 mm stainless steel tubes.



Specification

Model	EX 1530	FX 1530	ZX 1530
Working Area	5 feet x 10 feet	5 feet x 10 feet	5 feet x 10 feet
Laser Source	1000 / 1500 Watt	2000 / 3000 Watt	4000 / 6000 Watt
Laser Type	IPG / RAYCUS Fiber Laser Source	IPG / RAYCUS Fiber Laser Source	IPG / RAYCUS Fiber Laser Source
Laser Wavelength	1080 nm	1080 nm	1080 nm
Cutting Head	Raytools	Raytools	Raytools
Max. Cutting Speed	30 m/min	40 m/min	60 m/min
Max. Traveling Speed	70 m/min	120 m/min	140 m/min
Position Accuracy	<± 0.04mm	<± 0.04mm	<± 0.04mm
Minimum Line Width	< 0.12mm	< 0.12mm	< 0.12mm
Cooling System	Water Cooling	Water Cooling	Water Cooling
Drives & Control	AC Servo Motor	AC Servo Motor	AC Servo Motor
Working Voltage	AC 420V	AC 420V	AC 420V
Weightage	3.5 ton	5 ton	6.5 ton

Gloria Machine Model No. List

Model No.	Working Area	Description
EX SERIES		
Gloria EX-1325	1300 x 2500 mm	Laser Cutting Machine with 4 ft. x 8 ft. working area
Gloria EX-1530	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area
Gloria EX-1530R-3/6	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Rotary Attachment for 3/6 Mtrs Pipe
FX SERIES		
Gloria FX-1530	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area
Gloria FX-1530R-3/6	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10ft. working area with Rotary Attachment for 3/6 Mtrs Pipe
Gloria FX-1530TC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility
Gloria FX-1530CTC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility & Close Body Facility.
Gloria FX-1530TCR	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing & Rotary Attachment Facility.
Gloria FX-2040	2000 x 4000 mm	Laser Cutting Machine with 6.5 ft. x 13 ft. working area
ZX SERIES		
Gloria ZX-1325	1300 x 2500 mm	Laser Cutting Machine with 4 ft. x 8 ft. working area
Gloria ZX-1530	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area
Gloria ZX-1530R-3/6	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10ft. working area with Rotary Attachment for 3/6 Mtrs Pipe
Gloria ZX-1530TC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility
Gloria ZX-1530CTC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility & Close Body Facility.
Gloria ZX-1530TCR	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing & Rotary Attachment Facility.
Gloria ZX-2040	2000 x 4000 mm	Laser Cutting Machine with 6.5 ft. x 13 ft. working area

GLORIA 'B' SERIES FIBER LASER METAL CUTTING MACHINE

Mehta's Controller & Software Based on Beckhoff Hardware and Ethercat Technology

BECKHOFF (Germany) Hardware



Multi Touch 21 inch Wide

Machine Update

- All Mehta's Beckhoff series of Fiber Laser Cutting Machine will work up to date because of German hardware & software designed and implemented with a very advanced vision by Mehta's engineers.

Performance of many years

- Ultra fast communication with EtherCAT - Through the EtherCAT communication protocol, all machine's parts are controlled at ultra high speed. The total time between placing of an instruction and its execution is done at micro second level.

Cutting at minimum time

- In Gloria B series of fiber laser cutting machine, the flow of G code is important. In the performance duration process, G code is designed to achieve the desired result from the shortest path.

Back Up

- It is possible to restart the machine within minutes by means of system backup against possible error.

High Precision Cutting

- Thanks to ultra speed EtherCAT communication technology, the drive and motors from YASKAWA (JAPAN) and all control units which set the values with the highest precision and speed. Thus you may obtain perfect cuts with micron precision on time.



Mehta's Advanced Laser Technologies For Industry 4.0 (IOT)

In 1990 the internet was explained as bytes and modems, today its woven in life as facebook, amazon and smartphones.

Industry 4.0 is the new era in manufacturing that is already revolutionizing the industry technology and processes to increase efficiency. The ability of machines, devices, sensors and people to connect and communicate with each other via the internet of things (IOT).

Mehta Cad Cam ethos of improving operational efficiency has implement industry 4.0 by connecting laser cutting machine to single platform, gathering data of different parts and operation of laser cutting machine continuously and using them for quick service support, understanding performance of different parts and providing preventive action to increase up time of machine or to decrease down time of machine. It maximize efficiency of laser cutting machine and ultimately helps customers to get profits.

- MEHTA SMART LASER MACHINE "Gloria B Series"
- MEHTA SMART SOFTWARE "Trooper Cutting Software"
- MEHTA SMART REMOTE CARE "IOT"

Mehta's team have developed sensors and installed them in the laser cutting machine. Live Data collection of conditions of the internal parts by smart controllers is sent to our service department, through secure live iCLOUD feed, Mehta's engineers will continuously evaluate data, change in parameters, malfunctions and monitor break downs. This live information comprehensively processed for making informed decisions and solving urgent problems on short notice. This service feature will physically support client's work force by conducting a range of tasks that are unpleasant, too exhausting, or unsafe for their co-workers. This action of preventive maintenance will help to increase the life of parts of machine and ultimately increase the efficiency of machine.



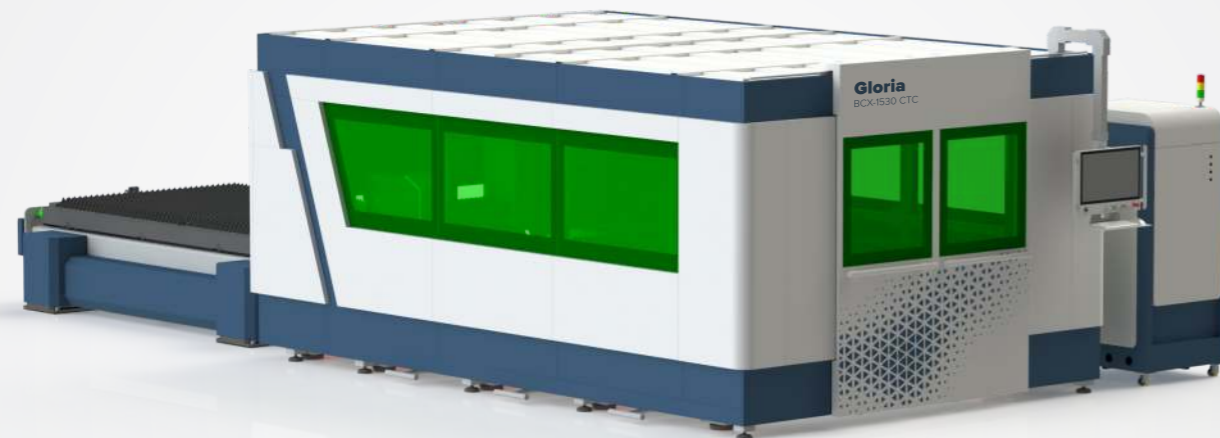
Mehta's Trooper Cutting Software V 1.1

- User Friendly Interface: Work becomes much easier with the new user friendly interface designed by Mehta's engineers. Once can start automatic cutting operation with only a few steps and monitor the active job before and during cutting operation, thanks to NC Graphics Features.



User Friendly Interface

- User Friendly and Customized Real Time Screen
- Customized Multi Axis and Multi-Function Can Be Done
- Online Component Monitoring On Screen
- Real Time Error Tracking
- Advanced Manual Possessing Functions
- Six Multiple Work References Can Be Done
- Remote Support Can Be Done Easily
- Advance Piercing Features
- Very Precise Movements, Even at High Acceleration and Speed.



GLORIA-BZX 1530 CTC

**Gloria Machine
Model No. List**

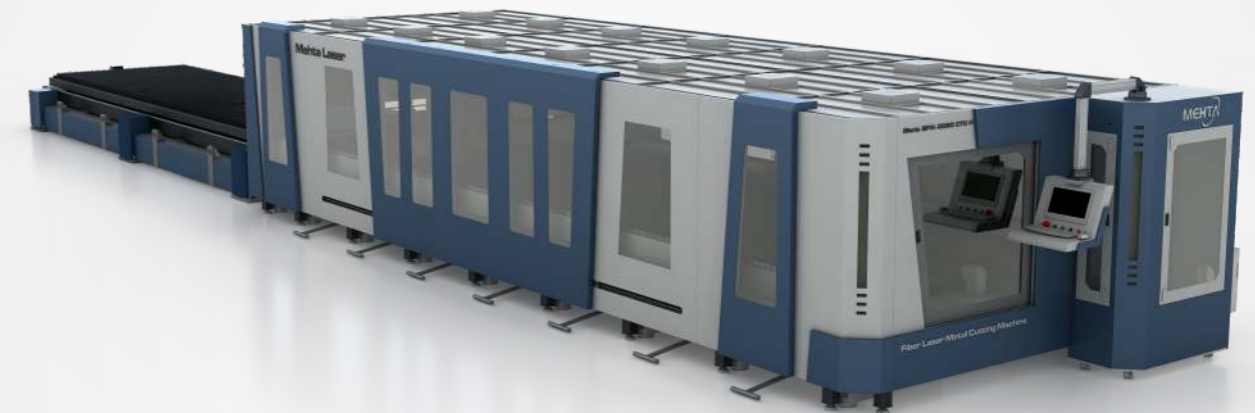
Our close body structure is designed with side door opening which is very convenient for operations & maintenance.

Model No.	Working Area	Description
BECKHOFF SERIES		
Gloria BZX-1530	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area
Gloria BZX-1530R-3/6	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10ft. working area with Rotary Attachment for 3/6 Mtrs Pipe
Gloria BZX-1530TC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility
Gloria BZX-1530CTC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility & Close Body Facility.
Gloria BZX-1530TCR	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing & Rotary Attachment Facility.
Gloria BZX-2040	2000 x 4000 mm	Laser Cutting Machine with 6.5 ft. x 13 ft. working area
Gloria BZX-2065	2000 x 6500 mm	Laser Cutting Machine with 6.5 ft. x 21 ft. working area
Gloria BZX-2080	2000 x 8000 mm	Laser Cutting Machine with 6.5 ft. x 26 ft. working area

Working Area: Standard

- 1.5 mtr x 3mtr
- 2 mtr x 4 mtr
- 2 mtr x 6.5 mtr & 2 mtr x 8 mtr

Any size can be manufactured as per customer's specifications.



**GLORIA-BPX 2080 CTC
(2 mtr x 8 mtr)**

Thick Plate Welding Machine Bed
Strong Frame Structure

This kind of machine bed has strong structure produced by relief annealing so the whole structure is very firm and hard to be deformed. For thick welding machine, inside of the metal plates are solid so even after long time of running it will still remain stable.

**Gloria Machine
Model No. List**

Our close body structure is designed with side door opening which is very convenient for operations & maintenance.

Model No.	Working Area	Description
BECKHOFF SERIES		
Gloria BPX-1530	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area
Gloria BPX-1530R-3/6	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10ft. working area with Rotary Attachment for 3/6 Mtrs Pipe
Gloria BPX-1530TC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility
Gloria BPX-1530CTC	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing Facility & Close Body Facility.
Gloria BPX-1530TCR	1500 x 3000 mm	Laser Cutting Machine with 5 ft. x 10 ft. working area with Table Changing & Rotary Attachment Facility.
Gloria BPX-2040	2000 x 4000 mm	Laser Cutting Machine with 6.5 ft. x 13 ft. working area
Gloria BPX-2065	2000 x 6500 mm	Laser Cutting Machine with 6.5 ft. x 21 ft. working area
Gloria BPX-2080	2000 x 8000 mm	Laser Cutting Machine with 6.5 ft. x 26 ft. working area

Working Area: Standard

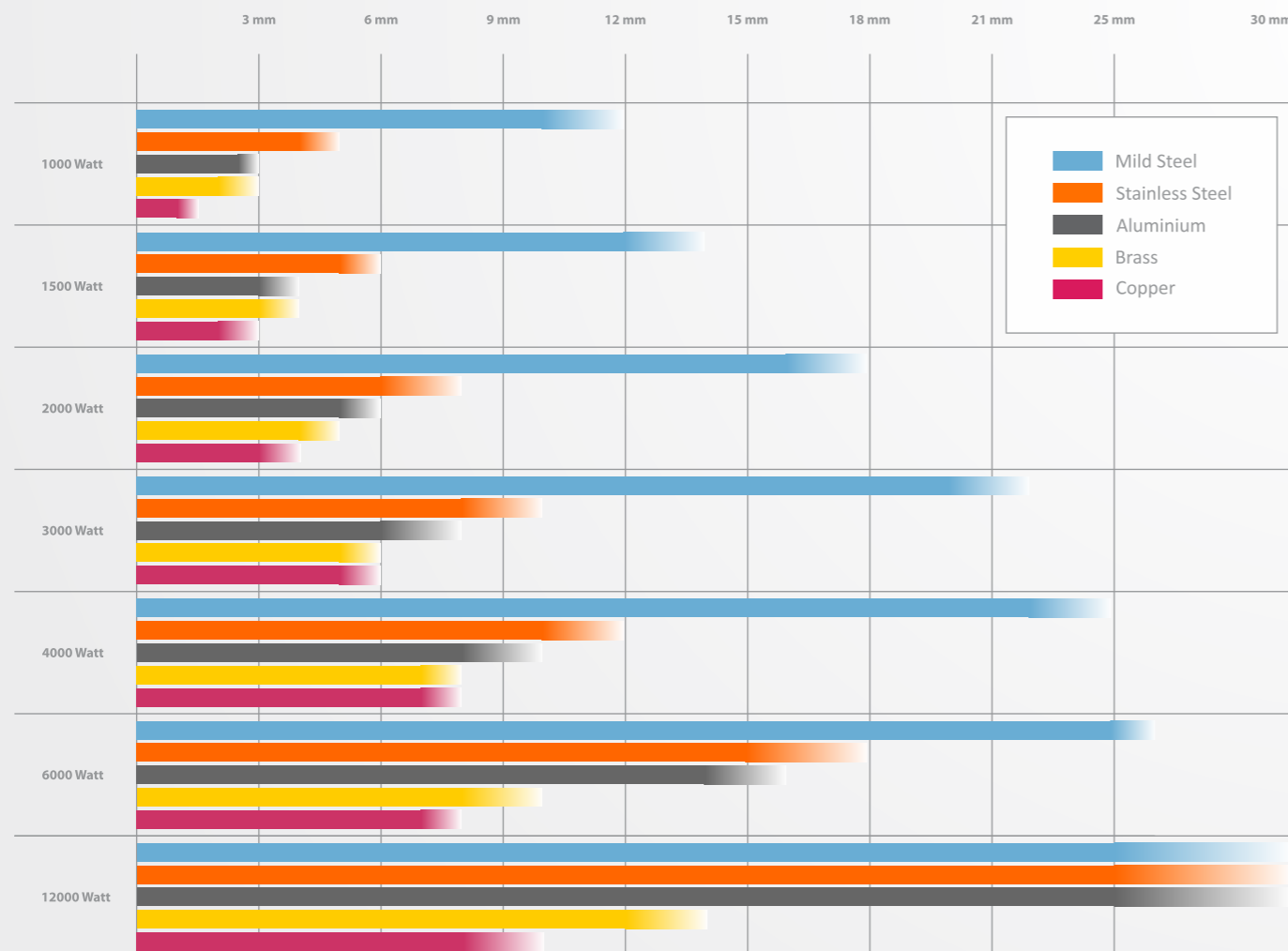
- 1.5 mtr x 3mtr
- 2 mtr x 4 mtr
- 2 mtr x 6.5 mtr & 2 mtr x 8 mtr

Any size can be manufactured as per customer's specifications.

Specification

Model / Working Are	BZX 1530, 1500 x 3000 mm	BPX 1530, 1500 x 3000 mm
	BZX 2040, 2000 x 4000 mm	BPX 2040, 2000 x 4000 mm
	BZX 2065, 2000 x 6500 mm	BPX 2065, 2000 x 6500 mm
	BZX 2080, 2000 x 8000 mm	BPX 2080, 2000 x 8000 mm
Laser Source	6 KW	12KW
Laser Type	IPG / RAYCUS Fiber Laser Source	IPG / RAYCUS Fiber Laser Source
Laser Wavelength	1080 nm	1080 nm
Cutting Head	Raytools	Raytools
Max. Cutting Speed	60 m/min	80 m/min
Max. Traveling Speed	120 m/min	140 m/min
Position Accuracy	<± 0.04mm	<± 0.04mm
Minimum Line Width	< 0.12mm	< 0.12mm
Cooling System	Water Cooling	Water Cooling
Drives & Control	AC Servo Motor	AC Servo Motor
Working Voltage	AC 420V	AC 420V

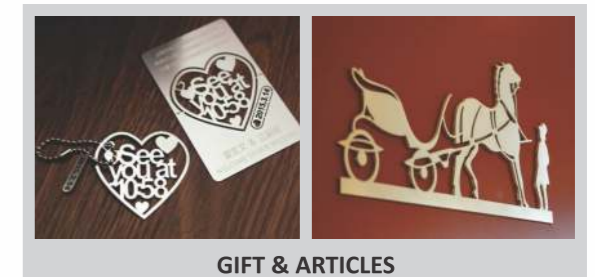
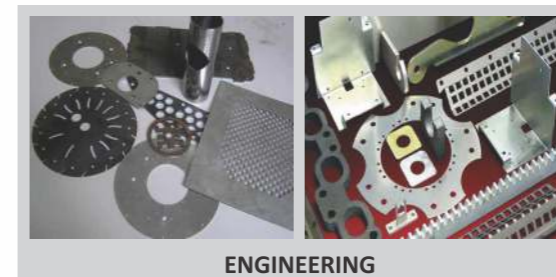
Cutting Thickness Chart



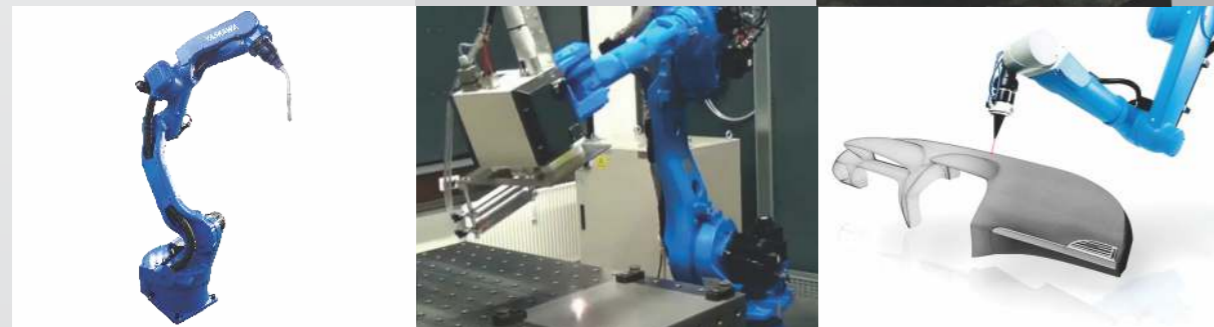
Other Range of Laser Products

- Fiber laser Marking machine
- Fiber laser welding machine
- Fiber laser cleaning machine
- Co2 laser engraving & cutting machine
- Co2 laser marking machine
- Co2 3d dynamic laser marking machine for large marking area

Sample of Fiber Laser Cutting Machine

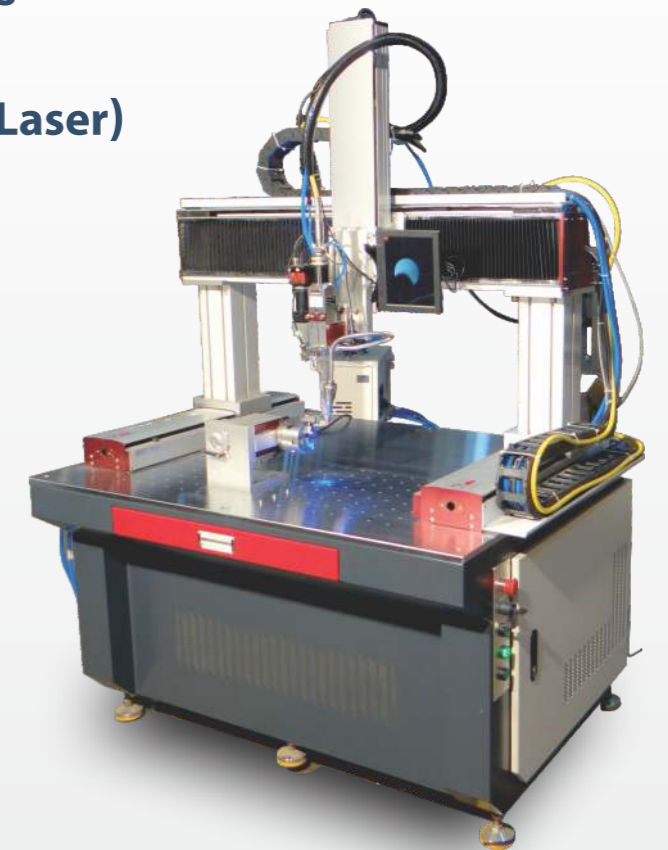


Integrated Robotics Solutions For Laser Cutting, Laser & MIG Welding Applications (Fiber Laser & Co2 Laser)

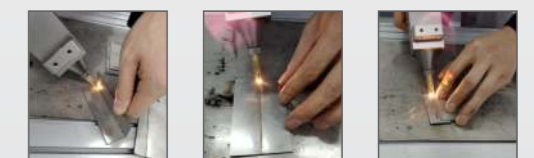


Laser Welding Machines Galaxy Series (Nd : YAG Laser & Fiber Laser)

**GALAXY-
WDF Series**
Fiber Laser, 4 Axis High
Precision Welding



**GALAXY-
WG Series**
Fiber Laser, Pen
Welding Machine

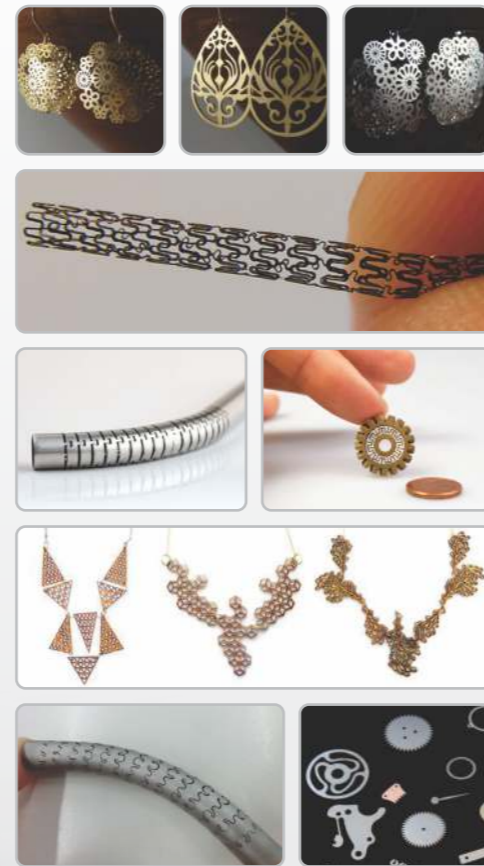
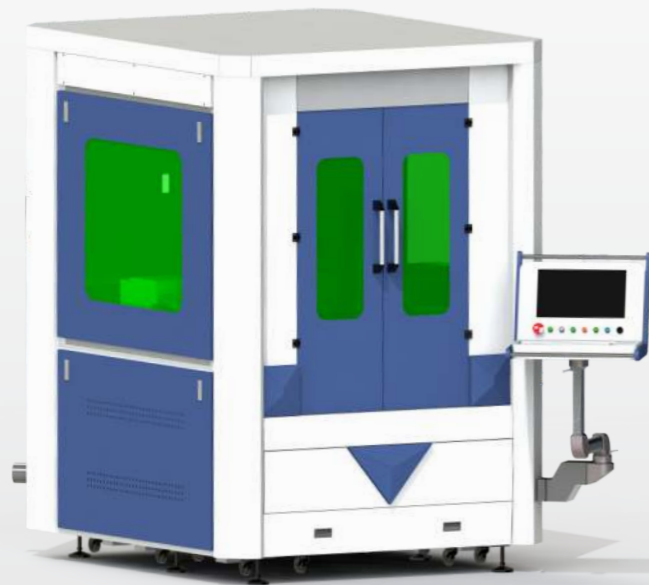


Corner Joint,
Tee Joint

Butt Joint

Lap Joint

Fiber Laser High Precision & Micro Cutting Machine Q Series



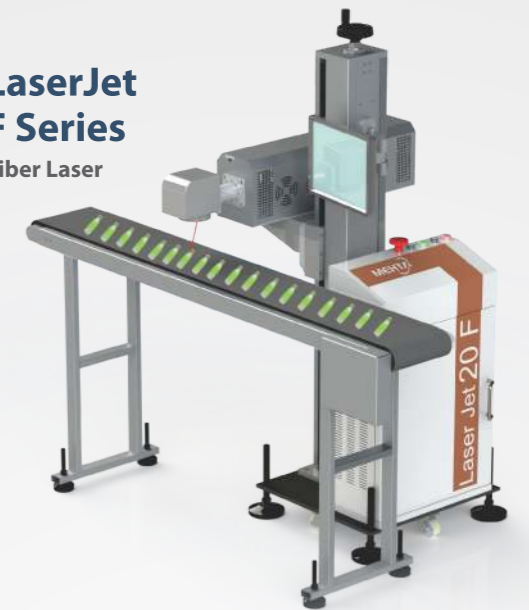
Online / Offline Laser Marking & Coding Machines

- Fiber Laser Marking
- Co2 Laser Marking
- UV Laser Marking
- Green Laser Marking

Evan 20, 30, 50, 100 Watt



LaserJet F Series Fiber Laser



LaserJet C Series Co2 Laser



Laser Cleaning Machine Nova Series

