



# **BRIGHT** STEEL AND ALUMINIUM WORKS LLC

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**LASER CUTTING** **V GROOVING** **CNC BENDING** **SHEARING**

## WHAT WE DO

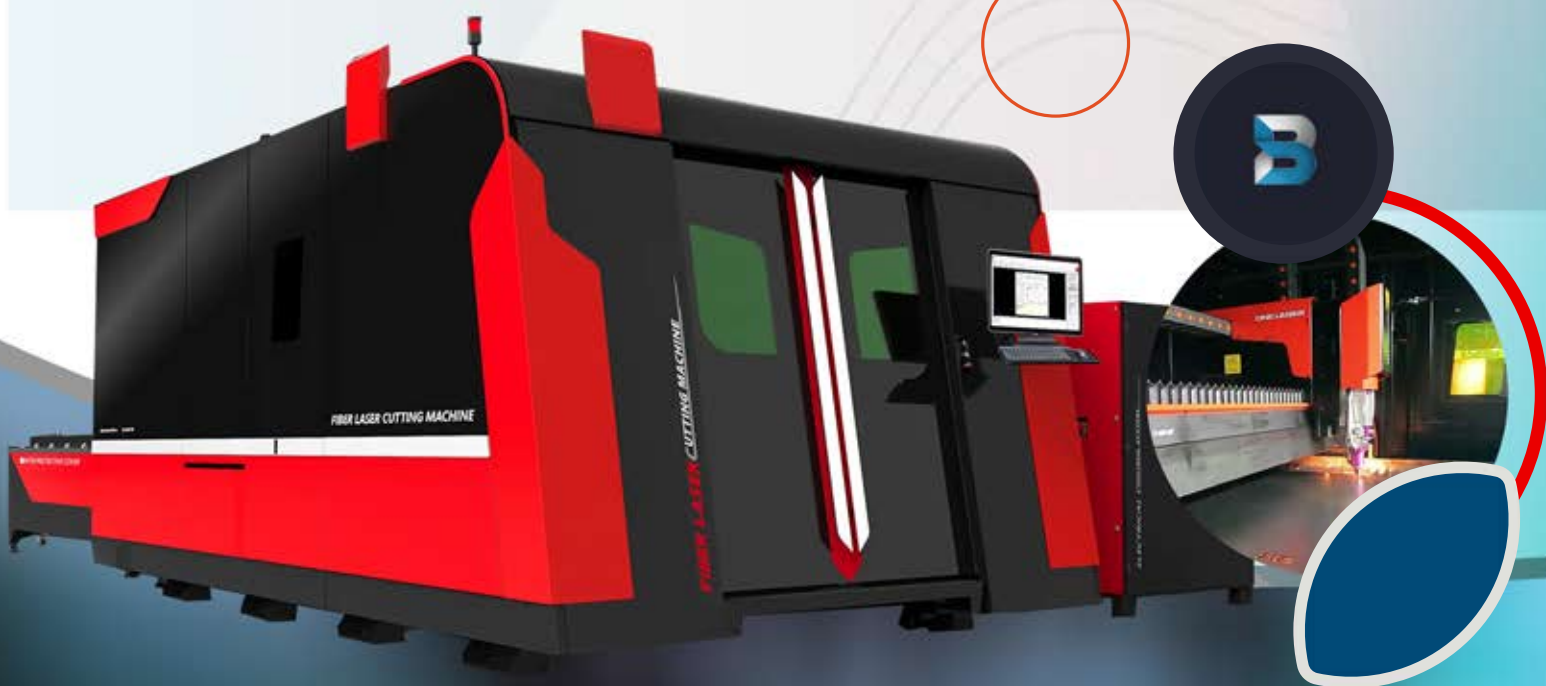
We are focused on sheet metal & profiles cutting according to the CAD designs. We are capable to cut any kind of materials from the customer requirements.

## LASER CUTTING MACHINE

In the laser department, we are enriched with the most powerful laser cutting machines in the UAE market, with the support of materials from Swiss and German technologies. We can process any complex jobs/ cutting projects, as our laser cutting machines can support a wide range of materials, specifications and a much wider tray design.

## MATERIAL DESCRIPTION

- Aluminium: 0.5mm to 10mm Thickness.
- Mild Steel: 0.5mm to 20mm Thickness.
- Stainless Steel: 0.5mm to 10mm Thickness.
- Tolerance: 0 to 0.25mm, 6 KW power, 2\*6 Meter size.





## HOW DOES CNC LASER CUTTERS WORK?

It is a process by which intense controlled energy, in the form of a laser beam, is focused and channeled to a specific area to burn & melt the material under it. The evaporated material is then blown off by the assisting gas jet. The machine or method of cutting is based upon the material and other related specifications.

## OUR EXPERTISE INCLUDES

1. Fusion cutting
2. Flame-cutting
3. Remote cutting

## TYPES OF CUTTERS USED IN CNC LASER CUTTERS

Fiber Laser Cutters –This method is mainly used with plastic and metals. This method is capable of cutting reflective materials without any hazards of back reflections.



## V-GROOVING

Bright Steel and Aluminum Works LLC has Super V-Cutting/ V-grooving machine 1220X4000, which is an improved type rather than the conventional table-type grooving machine. The V grooving machine has all the advantages of a conventional table-type grooving machine (such as the sheet being fixed & static. No scratches on the sheet during grooving, simple structure and good rigidity and better performance.)

Sl No	Item	Parameters
1	Bed Size	6000x2500
2	power	4k/w
3	Fiber laser Cutting Capacity Mild steel	22mm
4	Fiber laser Cutting Capacity Stainless Steel	10mm
4	Fiber laser Cutting Capacity Aluminum	10mm
6	Fiber laser Cutting Capacity Brass	8mm
7	Fiber laser Cutting Capacity Copper	8mm



# SHEARING MACHINE

Shearing is a multipurpose device used in the cutting of alloys and other sheet metal. Some shearing machines use a scissor-like, angular shear action to cut metal into sheets or strips. Other, larger machines use a straight shear action with the blade fixed at an angle as opposed to the angular movement.

A shaft-mounted speed reduction unit controlled by a selector switch for single or continuous strokes provides quiet instantaneous engagement.

Different from the traditional driving method of mechanical shearers, it is one of the most advanced miniature mechanical shearers and enjoys a good reputation in UAE. The low cutting angle and inclined shear direction reduce bowing and twisting to a minimum.

Shearing machines are the solution to the best price/quality ratio with a wide range of configurations. Our shearing machine models are available for different ranges of cutting thickness from 6mm to 25mm.

We are engaged in offering an optimum quality array of Hydraulic Shearing Services for our esteemed customers.

We provide shearing service for 1mm to 22 mm thickness plates up to the length of 6000 mm which can be cut within minutes.

## MAIN FEATURES WOULD INCLUDE

- Multiple thicknesses and sizes.
- Swing cut.
- Small fixed angle to suit all thicknesses.
- Sturdiness and reliability.
- Patented "SCSC" – Combined Sheet Support System.
- Proven experience.
- The utmost range of choices.





# BENDING

## CNC BENDING

CNC Bending is also known as a type of forming that uses force by the engineer to change the shape of the metal, either manually or through advanced machinery. Only expertise professionals from similar industries can do perfect bending of the materials and get the desired shape of that metal. This is where Metal Fabric plays a vital role in furnishing outstanding performance in CNC Bending Services in Middle East.

With the help of our skilled staff, we are engaged in providing the best Plate bending work. Thereby ensuring that customer's demands are always fulfilled in the best possible manner.

## TECHNICAL PARAMETERS

CNC Bending Services save time and money, increase production and deliver goods on time.

CNC Bending Machine provides components in a consistent manner.

CNC Bending Machine produces high-quality standard metal shapes.

## FACILITIES

Plate rolling /bending up to 70 mm thick mild steel/car bon steel/stainless steel plates having a width up to 3000mm.



## REQUIREMENTS AND SOLUTIONS FOR THE BENDING PROCESS ARE

Machine Sheet	Thicknesses Typical Range Of Materials	Tonnage	Bending length
Xpert 40	0.5–1.5 mm	40 t	1030 mm
Xpert 80	0.5–5 mm	80 t	1530 mm
Xpert 60–320	1.5–8 mm	60–320 t	2050–4100 mm
Xpert 250–1000	3–15 mm	250–1000 t	5100–10200 mm
Xpert Pro 100–320	1.5–8 mm	100–320 t	3100–4300 mm
Xpert Tandem	1.5–15 mm	120–2000 t	5100–20400 mm
Xact Smart	1.5–8 mm	50–300 t	1600–4100 mm
Xpress	1.5–8 mm	50–160 t	1050–3100 mm

## ARCHITECTURAL METALWORKS

We produce high-standard and well-designed structures in metals to suit architectural designs on buildings, interiors and properties.

## SPECIAL STRUCTURES

Our services also include manufacturing of special/customized structures required for construction works, as per the designs.





## OUR FABRICATION WORKS

### CUSTOMIZED DESIGN FABRICATION

- Aluminum Fabrication
- Metal Fabrication
- Mild Steel Fabrication
- Structural Steel Fabrication
- Sheet Metal Fabrication
- Stainless Steel Fabricators
- Steel Fabrication



Contact Us



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