



# KARADANI

ENGINEERING PVT. LTD.

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Manufacturing, Supplying & Exporting  
Pressure Vessel, Reactor, Mixing Tank,  
Vulcanizing Autoclave, AAC & Composite  
Autoclave, Epoxy Resin Plant, Alkyd Resin  
Plant, Unsaturated Polyester Resin Plant,  
UFO Resin Plant.

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 **Krish**

Karadani Engineering Pvt. Ltd.

# MACHINERY LIST

## WELDING MACHINES



### MIG/MAG 500 AMP

- 1) Excellent dynamic response enables superior arc characteristics
- 2) 2T, 4T operating modes
- 3) Electronic choke adjustment for better arc control.
- 4) Crater voltage and Crater current adjustment through digital panel
- 5) Unique feature of Fresh Tip Transfer (FTT) to avoid globule formation.



- 6) Automatic "Weld Stop" facility
- 7) Digital Panel for adjusting the welding parameters.
- 8) 30% more Energy efficient than conventional machines
- 9) Maximum Power factor is 0.94.



## ARC WELDING MACHINE

- 1) Complete protection lake of phase overload voltage and current voltage sortage and excessive temperature
- 2) More flexibility of heavy febrication job with inter connection cable 10 meter which further can be increased up to 25 meter. 3) Digital display of welding current and voltage . Easy convenient use.
- 4) Suitable for welding metal such as stainless, stele ,Carbon Steel, Copper



## Air Plasma Cutter

**Principle :-**Plasma cutting is a thermal cutting method where ionised gas is used for cutting the metal.

**Material Used :-** Typical materials cut with a plasma torch include steel, stainless steel, aluminum, brass and copper, although other conductive metals may be cut as well.

**Working Principle :-** A Plasma Cutting Machine operates by using ionized gas (plasma) to cut through conductive materials. It involves a power supply, gas flow, plasma generation, a plasma torch, and the cutting process. The intense heat of the plasma melts the material, while the gas stream blows away the molten metal, creating the cut.

**Application :-** Plasma cutting is often used in fabrication shops, automotive repair and restoration, industrial construction, and salvage and scrapping operations.



## NATURAL GAS CUTTER

Fundamentally speaking, the gas cutting process is relatively simple – in its most basic form, a gas cutting machinery is a nozzle that directs both the primary oxygen stream, as well as several secondary streams of the combination of oxygen and gas.

The metal piece in question gets preheated first using the combination of gas and oxygen (to about 700-900 degrees Celsius, a so-called “ignition” temperature). In this state, the metal piece is not hot enough to melt, but still hot enough for the cutting process.

After heating up the metal piece in question, the primary nozzle directs a stream of oxygen to the heated piece, instigating a chemical reaction between the metal piece and the oxygen. This reaction creates a “slag”, or iron oxide, that immediately gets blown away by the same oxygen stream that initiated the reaction, allowing for the nozzle itself to proceed with cutting the metal piece.

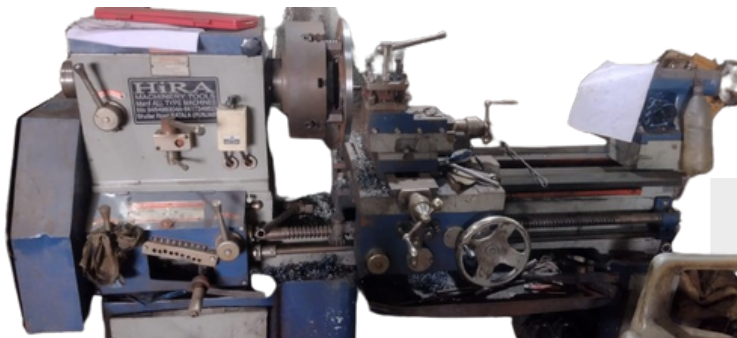
One of the biggest reasons for why it is so popular is the range of materials that it can cut – the material thickness that gas cutting can work with ranges from 0.5mm to 250mm.



## LATHE MACHINE

### SPECIFICATION

Bed Length	- 22 Feet
Height of Center	- 15 Inch
Spindle Bore	- 104 MM
Bed width	- 450 MM
Distance	- 5550 MM
SWILNG GAP D	- 1200MM
LEAD SCREW	- 8 MM

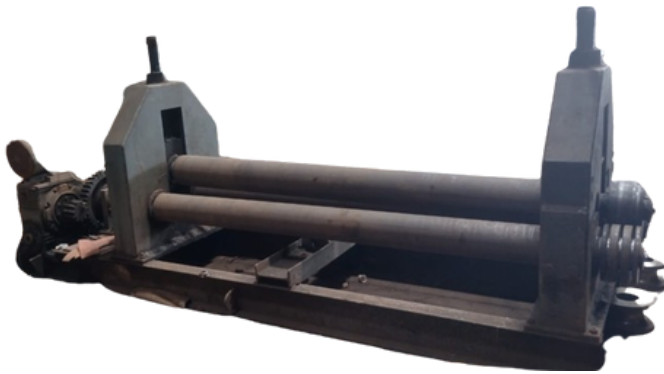
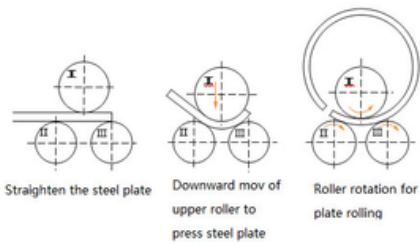


### Applications:

- 1) Oil country where High Tongue is required
- 2) Steel & paper mills Where there are various R.P.M requirements For Roll Turning and Precision Die Works
- 3) Power plants – Heavy duty All Geared can be perfect Tool Room Machinery
- 4) Ship building – For Extremely heavy Jobs Where Cone pulley Creates belt slippage All geared Provide High Torques
- 5) Rubber Roller grinding – With Help of Various attachments You can Do Grinding applications on this machine



# PLATE ROLL BENDING MACHINE



## MOTORIZED

QUANTITY	1
DISCRIPTION	20 mm Thickness TO 200 mm Width
Type	Semi Automatic

### Material used for manufacturing

A plate rolling machine is used to round a straight sheet into a cylinder. They bend stainless steel and basic steel, as well as aluminum, copper, and zinc for steel and tank construction, in heating, air-conditioning and ventilation construction, for metalworking and roofing, as well as for industrial mass production.

## HYDRAULIC

QUANTITY	1
DISCRIPTION	12 mm thickness x 2500 width
MAKE	krish Engineering

### Working Principle of Hydraulic

In the process, plate roll bending machine is to move the work roll through the external force of hydraulic pressure, so that the plate is bent or rolled into shape according to the rotation movement and position.

The roller has a support roller, and can be adjusted.

The upper roller is in the shape of a drum, which improves the straightness of the product and is suitable for various cross-sectional shapes of ultra-long specifications.

The lower roller is driven to rotate, and the output gear meshes through the reducer to provide torque for the rolling plate.

### Working Principle Motorize

In the process, one end of the sheet metal is fed into the three-roller plate between the upper and lower rollers, and then the upper rollers displace the sheet metal downward, causing a certain plastic bending deformation of the plate below it due to compression.



## SLOTING MACHINE

### Stroke Adjustment lever :

Stroke adjustment capacity of our machine is 10 mm to 250 mm. We can make and key way the very small job upto 10 mm.

### Counter Pulley:

Our counter pulley is made from CI material

### Z Axis Slide :

Table size of our slide is 330 x 275 mm

DISCRIPTION	CHUCK DIA - 12 INCH
	CAPACITY - 10-250 MM
	MOTOR CAPACITY - 2 HP -1440 RPM

## Hydraulic Press Sheet Bending Machine



### SPECIFICATION

Capacity =10 -20 Ton  
 Maxximum Bending Radius =50 -100 mm  
 Maximum force Or Load = 30- 60 Ton

### PRINCIPLE

A hydraulic press machine is a device that uses hydraulic fluid to generate large amount of force on a small surface area for metal processing.

### WORKING

When the machine operator initiates the bending process, hydraulic pumps create pressure that drives the hydraulic fluid. This fluid then actuates the hydraulic cylinders, moving the ram vertically to apply force to the metal sheet positioned over a die

## Single Girder Overhead Crane

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Load capacity = 10 Ton

Span = 18m

Liftinh height = 12m

Component = Electric motor pull ,, Crane Mechanism



## Double Girder Overhead Crane

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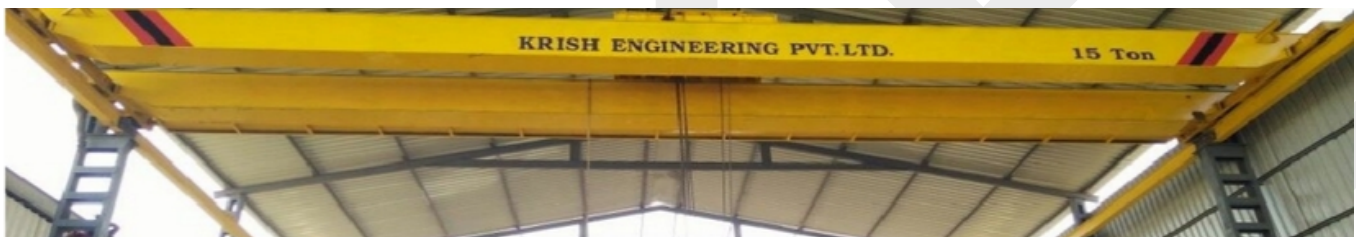
Load capacity = 15 Ton

Span = 27 m

Liftinh height = 18 m

Component = Electric motor pull

Crane Mechanism



## Advantages

compact structure, good rigidity,easy operation, low noise,low building height clearance,light

## Application

As one kind of common material handling equipment, the electric hoist double girder overhead crane is widely used in machinery processing workshop, warehouses, Chemical Industry , Heavy machinery pressure Tank ,Storage tank,Auto clave ,yard, plants, and other places, etc. It also can be used as an alternative for double girder overhead crane, used in production workshop of textile industry and food industry, etc.



## Vertical Lath Component



**Head stock assembly** - Drives the spindle of the lathe  
**Chuck** - Sits at the end of the spindle and holds the workpiece as it rotates

**Jaws** - Securely holds the work piece in the chuck

**Ways z-axis** - Drives the cutting tools up and down to perform cutting processes

**Ways x-axis** - The rail that moved the work piece in and out, positioning the cutter closer or farther away from the center.

**Work piece** - the piece being machined that clamps into the jaws of the chuck

**Multi-tool turret** - holds multiple cutting tools for different operations and switches them out automatic  
**Cutting tool**- takes cuts from the work piece to form the final part

**Bed** - The heavy cast iron base underneath the work area that the chuck is attached to heavy workpieces are easily set up and held in place when moving. Gravity works with the machine to keep the part in place and minimal clamping is required compared to other processes.

Our machines can accomplish this while taking up less space than a comparable horizontal lathe would. The rotating table supports the work piece.

A precision ram drives the x-axis and delivers the cutter to the desired location.

**Turning Processes** -

Turning Processes our machines can handle:

Boring, Cutting, Drilling,

Facing, Internal Forming,

Knurling, Necking, Parting ,

Shoulder facing, Threading (External, Internal)

Turning (Contour, Form, Taper, Straight)

VTL capabilities also include a wide variety of turning operations. One example is contour turning, the process of creating a contoured shape from the tool's path. We handle form turning to feed shaped tools radially into the lathe. We can do tapers at whatever angle is required. Straight turning to maintain a perfect cylinder at the desired dimension is no issue for our VTL.

## Applications

4th Axis Machining, 3d Profiling, Casing Machining, Part Mapping, Valve Repair, Bore Repair Press Plate mapping, Production runs.



# DRILLING MACHINES



## RADIAL DRILLING MACHINE

### SPECIFICATION

Drilling Capacity - 40 MM  
Spindle Travel - 175 MM  
Column Diameter - 210  
Drilling Motor - 1.50-1400 RPM  
Elevation motor for arm - 0.75 - 1440 RPM  
Distance from spindle to base  
Max/Min - 1020 max -400 Min  
Distance From Spindle to base  
Max/Min - 1180 max- 380 mm

### Auto Feed System

✓ Maan Technoplus Radial Drill Machine helps you increase your daily production, because of the Scientific Auto Feed System. It is so much faster to perform the repeated drilling operation in large quantities of workpieces.



### Motorized Radial Arm

✓ By pressing a small button on the control panel, you can adjust the height of the radial arm to suit the size of the workpiece. (The lack of fatigue in using the MAAN Radial Drill Machine is remarkable!).

### Wide Range of Spindle Speed

✓ The wide range of spindle speed gives you the freedom to perform any drilling operations in any type of material — no matter hard or soft.

### Heavy Duty Structure

✓ And, above all, Maan Technoplus makes their Radial Drill Machines by using the finest grade of cast iron, it helps the machines to stay stable & less noisy by absorbing most of the shocks and vibrations generated by the Machine.



## DONCHING DRILLING MACHINE

Rated Power Input (W) = 900

Maximum Stroke(mm)=140

Magnetism(N)= 1150

Rated Speed(r/min) = 450

Maximum Drilling Capacity (mm) = 30 OD

Net Weight (kg) = 11.5

### Discription

Magnetic drill commonly known as adsorption drill, it comes with an electromagnet, can be adsorbed on the steel part of the horizontal, side, top and curved (need to add spacers between the electromagnet and the surface) and drilling on it. It requires less effort than using an electric drill, labour, high precision machining.

### Uses

A magnetic drill, or mag drill, is a drill that adheres to and cuts into metal - iron, stainless steel, Titanium, Inconel and other similar materials.



### Working

The base of a magnetic drill is equipped with a powerful electromagnet to easily clamp the machine on the work piece to be drilled. When energized this magnet is held on the metal work piece, locking the machine base to the surface.

### Features

11500N strong suction electromagnets with protective switch, ensure higher security, Compact structure, light weight and high flexibility make it suitable for site installation and aerial work.

## GRINDER

**RANGE= 4" INCH**

**Component= Grinding Disc**



### **Material of grinding disc**

Alluminium oxide, Silicon carbide, Cubic boron nitride, Dimond.

Power = This machine has more power than angle grinding

### **Working**

Grinders are portable power tools specifically designed for grinding and polishing. They are used across a variety of workplaces and industries including metalworking, construction, and emergency

### **USES**

A disc grinder is typically used for precision work on smaller workpieces, whereas an angle grinder is used for rough cutting and grinding.



## ANGLE GRINDER

**RANGE= 4" INCH**

**Component= Grinding Disc**

### **Material of grinding disc**

Alluminium oxide ,Silicon carbide, Cubic boron nitride, Dimond.

### **Working**

Angle Grinders are portable power tools specifically designed for grinding and and polishing rescue

They are used across a variety of workplaces and industries including metalworking, construction, and emergency rescue.

### **USES**

Angle grinder used for rough cutting and grinding.



## COMPRESSOR

### DISCRIPTION

PRESSURE - 200 PSIG

H.P - 7.5

BORE X STROKE - 5" & 3" X 3.5"

Air tank Capacity - 300 L

Maximum Flowra - 25 CFM

Capacity - 640L/Min

Type - Reciprocating

### WORKING

The basic working principle of a reciprocating compressor is similar to that of a crankshaft piston. The air flows into the compressing cylinder after passing through the air filter and via a suction valve. The air is then compressed using a crankshaft and a piston and leaves through a discharge valve.



Motor: 5.5KW/7.5 HP

Max. working pressure: 12.3 KG/CM<sup>2</sup>

Piston Displacement: 22.5 CFM (FAD)

Piston Bore & Store : 5" X 3" & 3.5"

Compressor Speed: 670 RPM

# Krish

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