



**YESHSHREE**  
A Yeshshree Group Company



# Yeshwant

Industries

*Engineering..... ideas into reality !*

# ABOUT US

We are one of the emerging industry player in providing engineering solutions operated by group of professionals with vast industrial experience.

We specialize in :

Tube Notching Machine

Tube Bending Machine

Robotic Welding Fixtures with Cell & Robot Integration

Special Purpose Machines like Profile Welding, Boring , Tube Punching,  
Drilling & Tapping , Mitering , Load Testing, Saw Cutting etc.

Progressive & Transfer line press tools

Conventional press tools

Our strength lies in innovation with competitive price, timely delivery and assured quality.



## Tube Notching Machine

Tube Notching Machine is an alternative process replacing existing process of manufacturing by Press route, Milling, Mitering, Laser cut, etc.

Tube Notching Machine is applicable to Automotive, Furnishing Industry, Home Appliances, Gymnasium, HVAC Pipes, etc. for Tube end Preparation.

### Technical Specifications

Hydraulically operated.

PLC controlled.

Angle variation flexibility up to 30-120°

7.5-12 HP Power requirement

### Salient Features

Consistent Quality & Productivity.

Profile Consistency.

Low Tool maintenance.

Economic Operating Cost.

\*Punch resharpening alert through SMS.

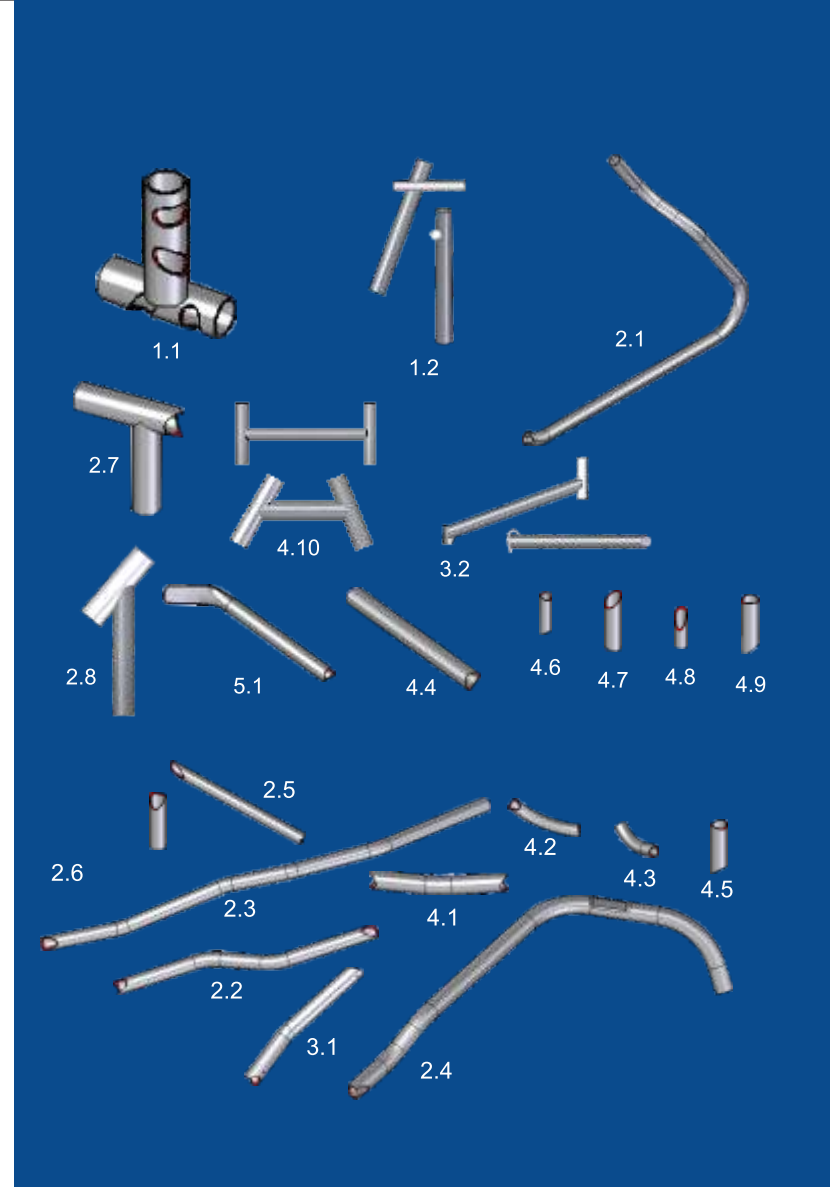
Suitable for faster Prototyping.

Forming & Notching operation can be performed in single stroke.

\*Feature of higher version Machine



Tube Notching Machine  
(Double End with Prenotch)





## 12 Axis CNC Tube Bending Machine (Fully electric)



### Machine Features & Specifications

Type 12 axes CNC, multi radius, 3 stack, all electric drive

Max. tube capacity (D x t)  $\varnothing 38$  mm x 2.6 mm

Min. tube capacity (D)  $\varnothing 10$  mm

Max. centre line radius (CLR) 180 mm

Min. centre line radius (CLR) 20 mm

Roll bending feature for large bend radii

Min. centre line radius (in terms of D) 1.5 D

Max. chuck distance from bending die 2000 mm

Tooling type 3 stack (3 radii, Including Roller)

Length over mandrel 2 meter

Carriage travel 2 metre

Bend angle range  $0^{\circ}$ - $180^{\circ}$



## Robotic Welding Cell (With fixtures)

### Features

Output / Man / Hours increase compare to manual process

POKA - YOKE for wrong part loading, wrong position of part and missing part

Unskilled / Semi skilled operator can operate

Interlocking for Air / Gas pressure

Easy to line change over

100% Utilization of Man & Machine

Reduce operator fatigue compare to manual welding

Low In-House Rejection (IHR)

Digital Part Counter & Cycle Time Display

After sales service

Visual training tutorial

Weld Bead varieties as per requirement during welding process

### Technical Specifications

Compact cell

Multiple E-stop button

Safety relay

Incoming Power circuit breaker

Easy Installation due to modular design

Consistent Quality and Repeatability

Low Maintenance





## Profile Welding SPM

We offer customized high performance Welding SPM that can be widely used for any welding application. The process of welding is simplified resulting into consistent quality & productivity.

### Features

Sustainable Quality

Consistent Productivity

Unskilled / Semi skilled operator can operate

Less intracell material handling

Less operating stages

### Technical Specifications

Electro Pneumatically operated

PLC Controlled

1.5 HP Power requirement

Round as well as linear (Overlap) welding in a single operation with help of servo control



## Drilling & Tapping SPM



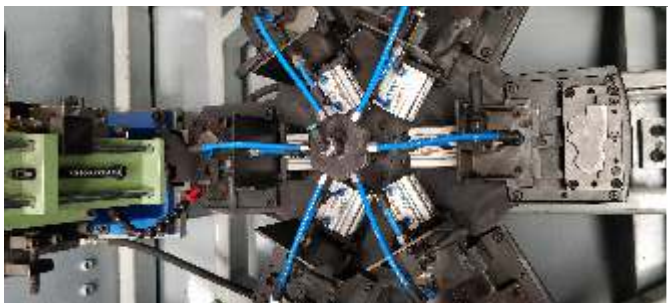
### Features

All in One solution for variety of components.

Multi-Spindle drilling & tapping solution.

Indexing Table with high accuracy & repeatability (Hydraulic/Servo).

Best Quality & High Accuracy Spindles from Taiwan make.



## Fine Boring SPM



### Features

Feed rapid with sensor & Programming

Consistency in hole, Concentricity within 0.02mm

Operating pressure range - Pneumatic 4 to 10 bar

Operating pressure range -Hydraulic 15 to 16 bar

Interlock with Air pressure, coolant level, hydraulic oil level, hydraulic oil temperature, lubrication oil.

Door interlock for operator safety.

We use WOHLHAUPTER Boring tool having adjustment range in 2 micron (Digitally)





## Tube Punching SPM



### Features

- Bulging & ovality of tube - 0.1 mm (max).
- Max. deformation at punching area - 0.1 mm.
- Quick & easy Replacement of punch & die.
- Easy to program punching position through HMI.
- 3 Different types of hole in single set-up

### Specifications

- Tube Sizes : Outer Diameter - 30 to 100 mm
- Tube Thickness - 1 to 3 mm
- Hydraulic Motor Capacity - 7.5 HP.
- Cycle time < 18 Sec (for 9 holes).
- Positional Accuracy:
  - Linear -  $\pm 0.2$  mm | Angular -  $\pm 0.3$  mm
  - Concentricity of holes at 180o -  $\pm 0.2$  mm

## Load Testing SPM



### Features

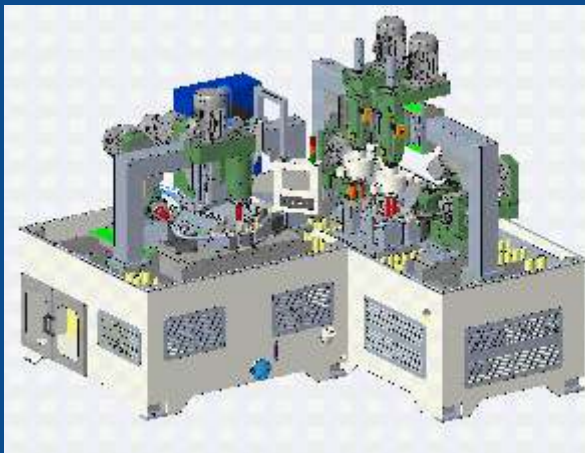
- Applied load range 50 kg to 1000 kg
- To prevent on field failure of part
- Auto unloading in rejection bin
- Once programmed, any unskilled operator can operate with a single start button function







## 2 Station metering & Drilling SPM



### Features

Metering operation at one stage

Cuts two pipes at a time.

Best quality & high accuracy spindle from Taiwanese manufacturer

Drilling operation at 2<sup>nd</sup> stage

### Salient features

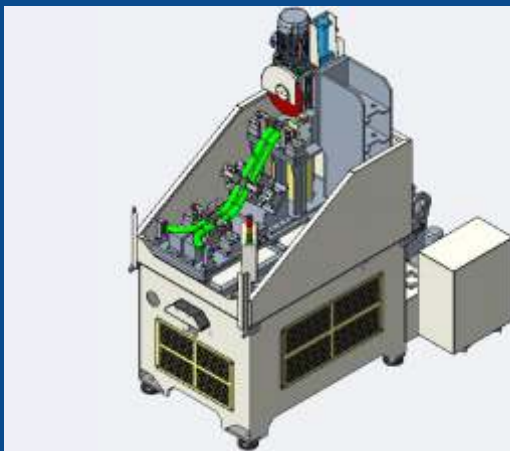
Metering of  $\varnothing 31.2$  and  $\varnothing 42.7$

Drill  $\varnothing 20.3, \varnothing 6, \varnothing 5$  for 2 pipes

Four products in one SPM

Productivity is more in this SPM

## Saw cutting SPM



### Features

Tube Sizes : Outer Dia.  $\varnothing 45$  mm

Tube Thickness - 1.6 mm

Saw cutter adjustment in lateral direction.

### Salient features

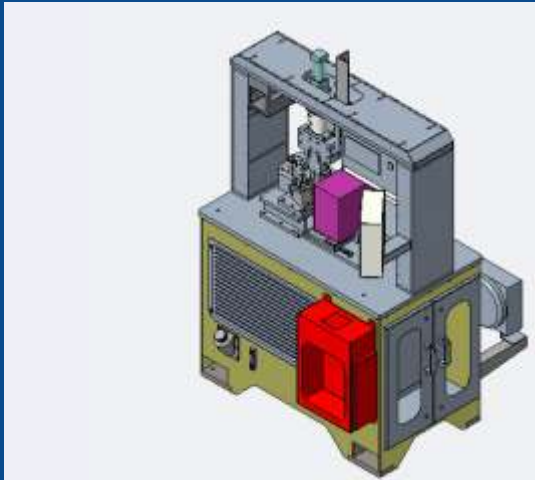
Consistently good production quality.

Quick & easy replacement of saw cutters.

Tube Sizes : Outer Dia.  $\varnothing 45$  mm

Lh & Rh pipe cutting at one time

## Load Testing SPM



### Features

Applied load range 50 kg 1000 kg.

Standard marking unit should be their for the proper marking on parts.

The loading unit should be present with the std of load cell.

Application is to prevent on field failure of part

Std FRL units used made by smc and Janatics.

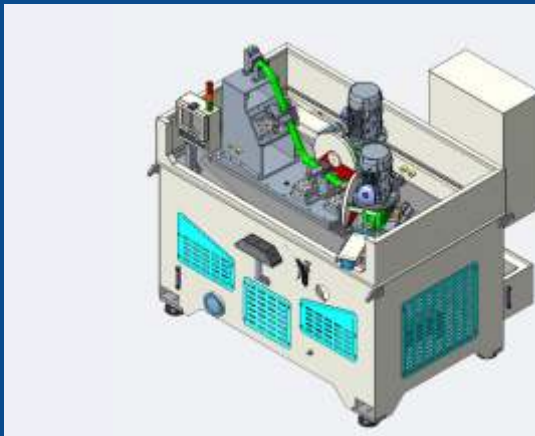
Three types of parts should be tested in this spm.

Easy fixture changeover should be present.

Hydraulically operated to avoid load fluctuation.

Once programmed, any unskilled oprator can oprate with a single button function.

## Saw Cutting SPM



### Technical Specifications

Tube sizes : outer dia. Ø45 mm

Tube thickness - 1.6 mm

Hydraulic motor capacity - 2 h.p.

Cycle time < 30 sec (for 2 saw cuts)

2 saw cutting setups in single station.

Both saw cutter adjustment in lateral direction.

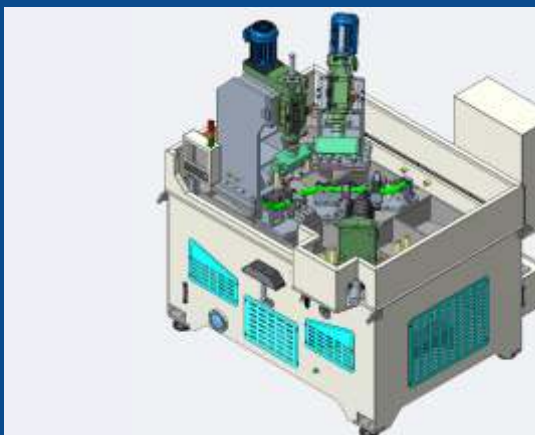
### Features

Max. deformation at cutting area - 0.1 mm (max)

Consistently good production quality.

Quick & easy replacement of saw cutters.

## Metering & Drilling SPM



### Features

Metering operation at one stage

Cuts two pipes at a time.

Best quality & high accuracy spindle from

Taiwan make

Drilling operation at 2nd stage

### Salient features

Metering of ø31.2 and ø42.7

Drill ø20.3, ø6, ø5 for 2 pipes

Four products in one spm

Productivity is more in this spm



## Station end Forming machine



### Technical Specifications

Tube sizes : outer dia. Ø45 mm

Tube thickness - 1.6 mm

Hydraulic motor capacity - 10 h.p.

Cycle time < 30 sec (for end forming)

2 setups in single station.

Both forming punch adjustment in lateral direction.

### Features

Max. Deformation at forming area - 0.5 mm (max)

Consistently good production quality.

Quick & easy replacement of forming.

## Head pipe Boring machine



### Features

Feed rapid with sensor & Programming (Servo Operated)

Consistency in hole, Concentricity within 0.02mm

Operating pressure range - Pneumatic 4 to 10 bar

Operating pressure range -Hydraulic 15 to 16 bar

Interlock with Air pressure, coolant level, hydraulic oil level, hydraulic oil temperature, lubrication oil.

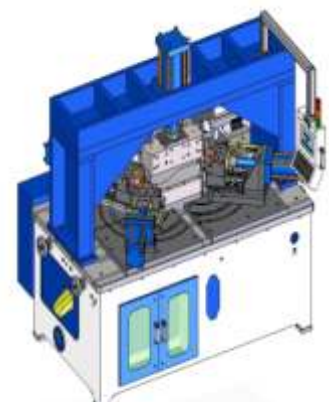
Door interlock for operator safety.



Double end notching machine



Double end Notching with forming machine (One end vertical)



Double end Notching with Forming machine (Both end Horizontal)

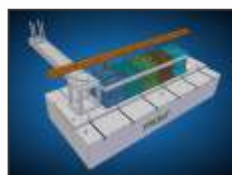
## Press Tools

### Tools & Fixtures

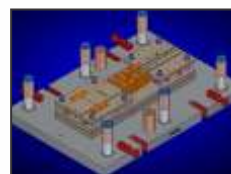
### Tool Image Top / Bottom

### End Product

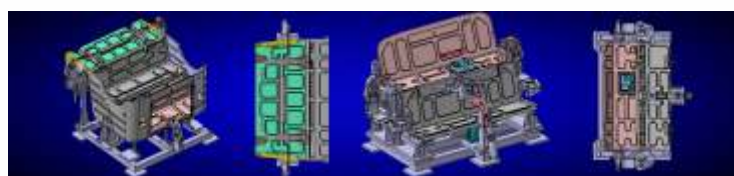
**Tool Name** : Transfer Line Press Tool  
**Type of Tool** : Transfer Line (Qty. 5 nos.) Tools  
**Tool Size in mm** : LR-450, FB-440, SH-280  
**Tool Wt.** : 280Kg. each **R.M. Thick** : 2mm  
**Features of Tool** : 5 Station Transfer Line Press Tool



**Tool Name** : Hinges Progressive Tool  
**Type of Tool** : Progressive Tool  
**Tool Size (mm)** : LR-1000, FB-600, SH-332  
**Tool Wt.** : 950Kg. **R.M. Thick** : 1.6mm  
**Feature of Tool** : 09 Station including 02 Forming Station  
 Strip guide on single line piloting at centre



**Tool Name** : Body Assembly line  
**Type of Tool** : Robotic Welding Fixture Line  
**Stages** : 16 Stages  
**Features of Tool** : Automated Robotic Welding Assembly Line



## Valuable Customers

Increasing customer base, Repeated orders from our existing customer is a result of our value added engineering solution.



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