

JET **Machines**®

MADE IN INDIA.. MADE FOR THE WORLD

World Class Metal Tube Working Machines



JANAK ENTERPRISES

Web Site : www.jetmachines.in / www.pipecuttingmachines.in



MADE IN INDIA.. MADE FOR THE WORLD

"JET Machines" is a proud brand of M/S Janak Enterprises, which is a 30 years old engineering company, engaged in various areas of engineering goods manufacturing.

"JET Machines" Has Evolved as No.1 Cold Saw Machines Manufacturing Company in INDIA With Market Presents in Several Other Countries.

Manufacturer Of

- **Semi Automatic & Fully Automatic Machines For Pipe/Bar Cutting ,
Pipe / Bar Chamfering & Pipe Notching**



Number 1 cold saw manufacturer in INDIA





MADE IN INDIA MADE FOR WORLD

World Class Machining Facility



JE-485 AT-S Automatic Servo Pipe/Bar Cutting Machine



| | |
|-------------|-----------|
| Head Swivel | 90 |
| ● | 60 |
| ■ | 50 x 50 |
| ○ | 120 |
| └ | 120 x 120 |
| □ | 120 x 120 |
| ▤ | 120 x 120 |
| ▢ | 130 x 80 |

Main Features

- 1) Auto feed (Bunch Cutting) – Auto Clamping – Auto Cut piece Ejecting, PLC & Servo Control Machine, Length Accuracy within +/- 0.1 mm. programmable up to 5 different lengths,
- 2) Main Motor 5HP, Output RPM = Variable between 20-120
- 3) Material Feeding is servo operated
- 4) Clamping Source is Hydraulic.
- 5) Cutting feeding source - Hydraulic.

A fully automatic cutting machine with bundle cut option. Servo- PLC control machine with 7" touch screen interface with programmable cutting schedule. User can feed in 5 different sizes, each size can have counter stopper and resettable counter for complete data keeping. Apart of this, an additional sub program (cut length) can be fed to make sure maximum cutting of given pipe and minimum waste. Machine RPM is controlled through PLC. 6 interlock/ protection (alarms) eliminate malfunction or accident due human or other circumstantial mistakes/error. Length tolerance within +/- 0.1 mm.

MADE IN INDIA.. MADE FOR THE WORLD

JE-325/350 AT-S Automatic Pipe/Bar Cutting Machine



| Parts specification | Fitted Make |
|---------------------|----------------|
| HMI (touch screen) | Schneider 7" |
| PLC | Schneider |
| Servo | Schneider |
| Motor VFD | Schneider |
| Contactor | Schneider |
| Relay Card | Schneider |
| SMPS | Telemachanique |
| Pressure switch | Indfos |
| Main motor/ | JET motors |

| | | | |
|--------------------------------|--------------------------|-------------------------------|---------------------|
| Max OD | 100 mm | Blade size applicable | 250/ 275 / 300/ 315 |
| Max Size of bunch | 70 x70 (Any combination) | Machine Weight | 600 kg |
| Max Wall thickness (MS) | 7mm | Machine dimension feet | 6.10 x 3.6 x 5.0 |

- 1) Auto feed (Bunch Cutting) – Auto Clamping – Auto Cut piece Ejecting, PLC & Servo Control Machine, Length Accuracy within +/- 0.10 mm.
- 2) Main Motor 3HP/3HP (1400/2800), Output RPM = Variable between 22-90.
- 3) Clamping Source is Pneumatic. (Option of Hydraulic cylinder for heavy cutting.)
- 4) Cutting feeding source - Hydro Pneumatic (Option of Hydraulic cylinder)

fully automatic cutting machine with bundle cut option. Standard 90° (45° on demand). Servo- PLC control machine with 7" touch screen interface with programmable cutting schedule. **User can feed in 5 different sizes, each size can have counter stopper and resettable counter for complete data keeping.** 6 interlock/ protection (alarms) eliminate malfunction or accident due human or other circumstantial mistakes/error. Length tolerance within +/- 0.10 mm. self written software allows continues upgrades which are free for all previous machine owners. On-board error detection system allows immediate help and repair of machine of most of malfunction. Manual use option to use the machine on manual mode. user can feed in actual RPM required on the touch screen, no switch selection or chart calculation like other machine of same class. Input air pressure interlock, low pressure detection cum alarm. This features are not available with any machine of same range. Current Overload Interlock through Software is very accurate, thus prevents blade breakage up to 80%.

MADE IN INDIA.. MADE FOR THE WORLD

JE-350 AT-H Automatic Pipe/Bar Cutting Machine



| Technical Specification : JE-325 | |
|----------------------------------|----------------|
| Parts Specification | Fitted Make |
| HMI (touch screen) | Schneider 7" |
| PLC | Schneider |
| Motor VFD | Schneider |
| Contactor | Schneider |
| Relay Card | Schneider |
| SMPS | Telemachanique |
| Pressure switch | Indfos |
| Digital Read Out | Schneider |
| Main motor/ Hydraulic motor | Elcen |
| Hydraulic solenoid valves | Yuken |
| Hydraulic gear pump | Yuken |

| Technical Specification | | | |
|-------------------------|--------------------------|------------------------|---------------------|
| Max OD | 100 mm | Blade size applicable | 250/ 275 / 300/ 315 |
| Max Size of bunch | 70 x70 (Any combination) | Machibe Weight | 600 kg |
| Max Wall thickness (MS) | 7mm | Machine dimension feet | 6.10 x 3.6 x 5.0 |

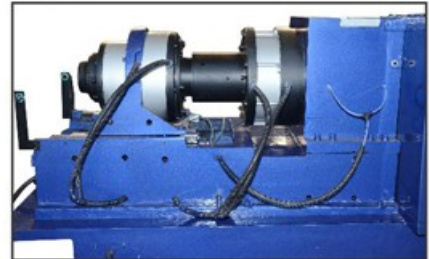
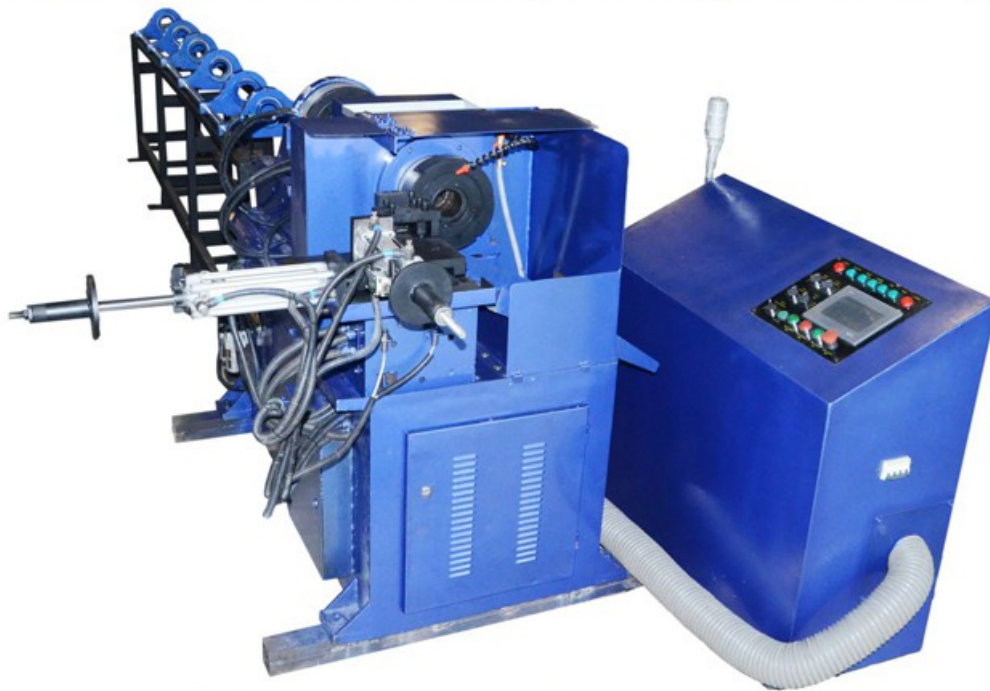
- 1) Auto feed (Bunch Cutting) - Auto Clamping - Auto Cut piece Ejecting, PLC Contril Machine, Length Accuracy +/-0.2 through DRO length Setting.
- 2) Main Motor 3HP/3HP (1400/2800), Hydraulic Power pack of 2 HP
- 3) Clamping Source Pneumatic. Option of duel and Bigger clamping cylinder for heavy cuttong
- 4) Cutting feeding source - Hydro Pneumatic, Material feeding Source - Hydraulic

A fully automatoc cutting machine with bundle cut option. Standard 90 cutting. PLC control machine with 7" touch screen interface with single length cutting schedule. counter stopper and resettable counter for complete data keeping. 6 interlock/ protection (alarms) eliminate malfunction or accident due human of other circumstantial misrakes/errore. Length tolerance within +/-0.2 mm. On-board error detection system allows immediate help and repair of machine of most parts. M anual use option to use the machine on manual mode. User can feed in actual RPM required on the touch screen, no switch selecti on or chart calculation like other m achine if same range. input air pressu re maintaining swich cum alarm. This featur es are not available with any machine of same range. Current overload Protection & through software interlock, which is very preci se, no chance of malfunction. Thus prevents blade breakage up to 80%.

JET *Machines*®

MADE IN INDIA.. MADE FOR THE WORLD

CNC Auto Fully Automatic Lathe Pipe Cutting & Chamfering Machine



TECHNICAL SPECIFICATION

| Working range (Pipe OD) | Model No. 1 8mm- 42 mm | Model No. 2 18mm- 62mm | Model No. 3 40mm- 90mm |
|--|---------------------------|---------------------------|---------------------------|
| Cutting Speed (for 50mm OD x 1.5mm thick) | 22-26 cuts/ minute | | |
| Cutting Length Tolerance | +/- 0.1mm | | |
| Servo Motor for Feeding | 0.75 Kw /3000Rpm | | |
| Servi Motor for Cutting | 0.40Kw/2000 Rpm | | |
| Main Motor | 5 HP/ 1400 RPM | | |
| Max Input Air pressure required | 6 Kg./ | | |
| Max air Flow required | 350 Liters | | |
| Total weight | 1000 Kg. | | |
| Dimensions (floor) Main Body | 1350 x 800 x 1480 mm | | |
| Roller stand | 1100 x 1200 x 3600 | | |

MADE IN INDIA.. MADE FOR THE WORLD

JE 315 Semi Automatic Pipe/Bar Cutting Machine



ACUTE FEATURES :

- + Semiautomatic type, Auto clamp -Auto chamfer- Manual feed.
- + Feed= hydro-pneumatic, clamping=pneumatic

Technical Specification

| | | | | |
|---------------------------|----------------------|------------------------|------------|-----------|
| Main motor HP | 3hp/3hp (Duel speed) | Saw Angle | 90 degree | 45 degree |
| Coolant motor | 0.1 hp | Round Pipe | 95 mm | 75 mm |
| Output RPM | 40/80 rpm | Square Pipe | 90x90 mm | 70x70 mm |
| Total weight | 330kg. | Round Bar (MS) | 38mm | 25 mm |
| Dimensions (Floor) | 2.6f x 3.5f | Square Bar (MS) | 38 x 38 mm | 25x25 mm |

MADE IN INDIA.. MADE FOR THE WORLD

JE 350 Semi Automatic Pipe/Bar Cutting Machine



| Technical Specification | | | | |
|---------------------------|-------------|------------------------|--------------|-----------|
| Main motor HP | 3hp/3hp | Saw Angle | 90 degree | 45 degree |
| Coolant motor | 0.1 hp | Round Pipe | 110 mm | 90 mm |
| Output RPM | 65/32 | Square Pipe | 100 x 100 mm | 90x90 mm |
| Total weight | 360kg. | Round Bar (MS) | 50 mm | 30 mm |
| Dimensions (Floor) | 2.6f x 3.5f | Square Bar (MS) | 50x50 mm | 30x30 mm |

ACUTE FEATURES :

- ✦ Semiautomatic type, Auto clamp -Auto chamfer-Manual feed.
- ✦ Feed= hydro-pneumatic, clamping=pneumatic

JE-400VS -Semi-Automatic Hydraulic Pipe/Bar Cutting Machine



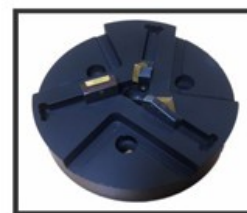
| Technical Specification | | | |
|---------------------------|---|------------------------|-----------------|
| Main motor HP | 5hp | Saw Angle | 90 degree fixed |
| Coolant motor | 0.1 hp | Round Pipe | 120 mm |
| Output RPM | L 20 rpm-70 rpm (std.) H 35 rpm-120 rpm (std.) | Square Pipe | 115 x 115 mm |
| Total weight | 560kg. | Round Bar (MS) | 50 mm |
| Dimensions (Floor) | 3.6f x 4.9f | Square Bar (MS) | 50 x 50 mm |

ACUTE FEATURES :

- ✦ Semiautomatic type, Auto clamp -Auto chamfer-Manual feed.
- ✦ Feed= hydro-pneumatic, clamping=pneumatic

MADE IN INDIA.. MADE FOR THE WORLD

Semi- Automatic Pipe / Bar Chamfering Machine



+ ID-OD-FACING

ACUTE FEATURES :

- + Semiautomatic type, Auto clamp -Auto chamfer- Manual feed.
- + Feed= hydro-pneumatic, clamping=pneumatic

Technical Specification

| MODEL | JE-80 AC | JE-110 AC |
|-----------------------------|---|---------------------------|
| Main motor HP | 2HP | 3HP |
| Spindle RPM | 1700 | 1400 |
| Air Pressure | 4-7 kg/cm2 | 4-7 kg/cm2 |
| Chamfering Angle | 30 - 45 degress | 45 - 60 - 70 - 80 degress |
| Max OD | 80mm | 110mm |
| Min ID | 8mm | 8mm |
| Min length | 48mm | 48mm |
| Applicable Material | MS, SS, Copper, Brass, Aluminium | |
| Total weight | 250 kg | 310 kg |
| Dimensions L x W x H | 640 x 435 x 980 | 640 x 435 x 980 |

MADE IN INDIA.. MADE FOR THE WORLD

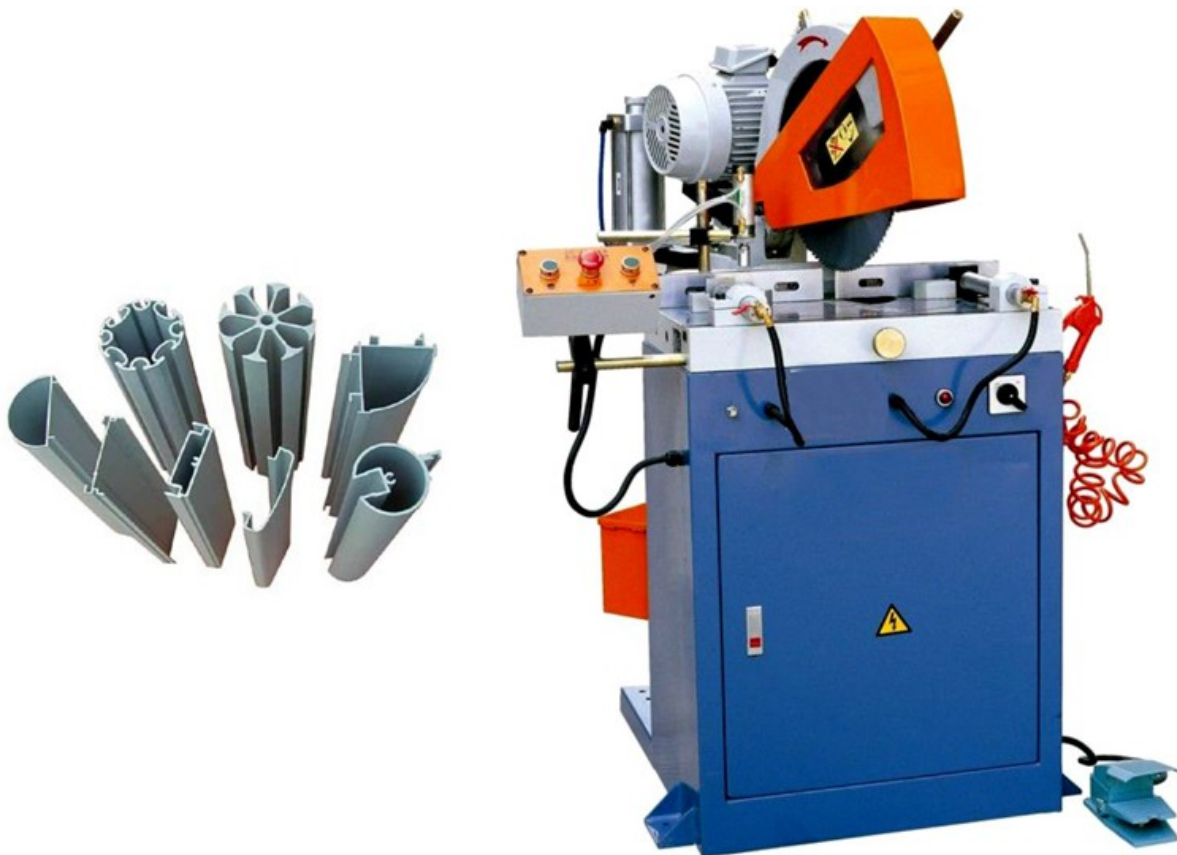
JE Dual Head Automatic Pipe/Bar Chamfering Machine



Technical Specification

| | |
|----------------------------|--------------------------|
| Main Motor Power | 3HP/1.5HPx2/4P |
| Working Length | 80 - 650 mm / 30 - 90 mm |
| Processing Diameter | 8 mm - 80 mm |
| Working Pressure | 6-8GS/cm2 |
| Control Systems | Pneumatic |
| Size | 2000mm x 1000mm x 1300mm |
| Weight | 750kg |

JE 350HA High Speed Semi-Automatic Aluminum Cutting Machine



TECHNICAL SPECIFICATION

| | | | | |
|---------------------------|--------------------|-------------------------|-----------------------|----------|
| Main motor HP | 3 Hp | Saw Angle | +45 - 90 - -45 degree | |
| Coolant | Noga cool (Israel) | Cutting Capacity | @ 90 ° | @45° |
| Output RPM | 2800 | Round Pipe | 110 mm | 90 mm |
| Total weight | 310kg. | Square pipe | 100x100 mm | 90x 90mm |
| Dimensions (floor) | 3.2f x 4. 0f | Rectangle | 150x 75mm | 100x75mm |

ACUTE FEATURES :

- Semiautomatic type, Auto clamp –Auto cut- Manual feed, Matrix stopper.
- feed= hydro-pneumatic, clamping =pneumatic



MADE IN INDIA.. MADE FOR THE WORLD

JE-325 AT-PA Pneumatic High RPM Automatic Aluminum Cutting Machine



| Parts specification | Fitted Make |
|---------------------|-------------------------------|
| HMI | Schneider 7 inch Touch screen |
| PLC | Schneider |
| Contactor | Schneider |
| Relay Card | Schneider |
| SMPS | Telemachanique |
| Main motor/ | Elcen |

- 1) Auto feed (Bunch Cutting) – Auto Clamping – Auto Cut piece Ejecting, PLC Control Machine, pneumatic Length feeding, Accuracy within ± 0.2 mm.
- 2) Main Motor 7HP (2800), Output RPM = Variable between 2000-4800.
- 3) Clamping Source is Pneumatic, Cutting feeding source - Hydro Pneumatic

| | | | |
|----------------------------|--------------------------|------------------------------|-----------------------|
| Max OD (hollow) | 100 mm | Blade size applicable | 300/ 350 |
| Max Size of bunch | 70 x70 (Any combination) | Machine Weight | 600 kg |
| Max solid Alu. size | 65.0mm | Machine dimension | feet 6.10 x 3.6 x 5.0 |

fully automatic cutting machine with bundle cut option. Standard 90°. PLC control machine with 3.5" mono screen interface or 7" inch touch screen interface . Length tolerance within ± 0.2 mm. self written software allows continues upgrades which are free for all previous machine owners. On-board error detection system allows immediate help and repair of machine of most of malfunction. Manual use option to use the machine on manual mode.

MADE IN INDIA.. MADE FOR THE WORLD

Semi- Automatic Pipe Notching Machine



Technical Specification

| | | | | |
|---------------------------|--------------|-----------------------------|-----------|-----------|
| Main Motor HP | 3HP | Notching Angle | 90 degree | 45 degree |
| Coolant Motor | 0.1 hp | Max Round Pipe | 50 mm | 35 mm |
| Output RPM | 320-1700 RPM | Max Square Pipe | 50x50mm | 35x35mm |
| Total weight | 260kg. | Max Notch Radius | 25 mm | |
| Dimensions (Floor) | 2.6f x 3.9 f | Minimum Notch Radius | 5 mm | |

- Semiautomatic type, Auto clamp, Auto Notch- Manual feed, Matrix stopper,
- Feed = hydro / pneumatic, clamping = pneumatic
- Option of Input-pneumatic pressure interlock



JET *Machines*®

High Frequency Tera Spindle

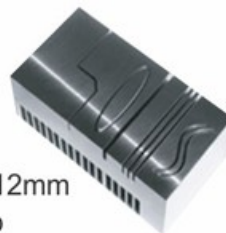
Upgrade your existing NC Milling machines and CNC machining centers (VMC) For High Speed Machining



| | |
|--------------------------|------------------|
| Speed | 24,000 rpm |
| Max. Output Power | 600W |
| Spindle Accuracy | Within 1 μm |
| Tool Range | 0.3mm - 6.0mm |



- Ø 1 Ball Endmill
- Ø 2 Ball Endmill
- Feed (min/mm) :600
- Max Cutting depth (mm) :12mm
- Spindle RPM : 18,000 rpm



- Ø 1 Ball Endmill
- Ø 2 Ball Endmill
- Feed (min/mm) :600,800
- Max Cutting depth (mm) :10mm
- Air pressure (kgf/cm) : 4.5 5
- Spindle RPM : 40,000 50,000

By: **J**anak **E**lectric **T**ools®

: Contact Details :

JANAK ENTERPRISES

Plot No.1, Survey No. 137/2, Rajpara, off : Sihor-Bhavnagar Highway,
Tal. Sihor, Dist. Bhavnagar, Gujarat, INDIA.

Phone:- +91 9975669481 / +91 9624673737 / +91 07359597200

E-mail: vipul@janakent.com / info@janakent.com

Web Site : www.jetmachines.in / www.pipecuttingmachines.in



: Contact Details :

JANAK ENTERPRISES

Plot No.1, Survey No. 137/2, Rajpara, off : Sihor-Bhavnagar Highway,
Tal. Sihor, Dist. Bhavnagar, Gujarat, INDIA.

Phone:- +91 9975669481 / +91 9624673737 / +91 07359597200

E-mail: vipul@janakent.com / info@janakent.com

Web Site : www.jetmachines.in / www.pipecuttingmachines.in