

“Pipe Cutting Circular Sawing Machine”

(For light & heavy wall thickness)

ITL offers state of the art highly efficient and productive NC High Speed Circular Sawing Machines in different sizes as per specification mentioned below.

These machines are designed to adopt Coated HSS Saw Blades & TCT Saw Blades depending on the customer's requirements.

These machines are suitable for ferrous & non-ferrous metals – Tubes, Pipes and Structural sections.

Machine has been designed such that small dia pipes can be cut in bunch as per clamping space available.

Technical Specifications:

MODEL	IT-PCCSNC-75	IT-PCCSNC-100	IT-PCCSNC-150
Capacity - Round Pipe/ Tube	Dia 10-75 mm	Dia 20-100 mm	Dia 20-140 mm
Square Pipe / Tube	Section 10-60 mm	Section 20-80 mm	Section 20-120 mm
Wall Thickness	0.5 - 5.0 mm	0.5 - 5.0 mm	0.5 - 5.0 mm
Saw Blade Type	Coated HSS Cutter upto 5mm thickness for max. ST 45 grade material. Above 5 mm and above ST-45 grade Material Coated TCT Cutter to be used for High Tensile material.	Coated HSS Cutter upto 5mm thickness for max. ST 45 grade material. Above 5 mm and above ST-45 grade Material Coated TCT Cutter to be used for High Tensile material.	Coated HSS Cutter upto 5mm thickness for max. ST 45 grade material. Above 5 mm and above ST-45 grade Material Coated TCT Cutter to be used for High Tensile material.
Saw Blade Size	Dia 350 – 300 mm	Dia 400 – 350 mm	Dia 500 – 400 mm
Blade Speed	50 - 200 MPM	50 - 200 MPM	50 - 200 MPM
Cutting Feed	Through AC Servo motor (Per tooth load possible)	Through AC Servo motor (Per tooth load possible)	Through AC Servo motor (Per tooth load possible)
Pipe Indexing	Automatic Through Hydraulic Cylinder.-1000 mm stroke	Automatic Through Hydraulic Cylinder.-1000 mm stroke	Automatic Through Hydraulic Cylinder.-1000 mm stroke
Auto length indexing	Digital control (Least count 0.20 mm)	Digital control (Least count 0.20 mm)	Digital control (Least count 0.20 mm)
Saw Motor	10 HP, 1400 RPM, 3Ph, 440V, 50 Hz	15 HP, 1400 RPM, 3Ph, 440V, 50 Hz	15/20 HP, 1400 RPM, 3Ph, 440V, 50 Hz
Coolant Pump Power	0.25 HP	0.25 HP	0.25 HP
Electricals	24 VDC Control Volts	24 VDC Control Volts	24 VDC Control Volts
Size	L2600×W1850×H2000mm	L2600×W1850×H2000mm	L2600×W1850×H2000mm
Colour	ITL Standard	ITL Standard	ITL Standard

Construction Details:

- Electric motor is coupled to the reduction Gear Box through timer belt and cutter drive arrangement is mounted on Linear Guide Ways for vibration free cutting to optimize production and tool life.
- The Cutter feed motion is control by Ball Screw & Servo Motor.
- Single piece construction of cutter arbor with Gear Box shaft gives run out free rotation to the cutter.
- The saw speed is controlled by A.C. Frequency Drive depending upon the application from operator control.
- The machine is equipped with Flood Cooling (Mist spray – Optional)
- For Main vice Horizontal type job clamping arrangement is provided which is operated hydraulically with variable pressure for thin wall to thick wall.
- Horizontal clamping arrangement is used for shuttle system to index raw material stock of desired length. The shuttle stroke is 1000 mm control by Hydraulic Cylinder. Length accuracy can be obtained within +/- 0.20 mm
- Sequential control of the machine is by PLC & HMI. Operational parameters like Feed rate, Cutter speed , Number of cuts to be cut, Job size, Cut length etc can be pre programmed.
- Machine has a facility to indicate cutting time, cycle time & No of Cut completed.



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(a BSE Listed, ISO 9001:2015 Certified Company)

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