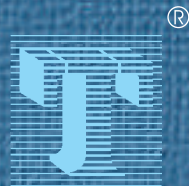


Technology with Time



NC Circular Saw Machine



ITL Industries Ltd.

ITL -Provides 360° metal cutting solutions in all the spheres of engineering field. Being an aggressive, solution-centric and customer service oriented company, ITL has identified the needs of various cutting requirements from easy to most difficult to cut materials like Titanium, Hot Die steels, Alloys for Aerospace applications, case-hardened steels etc.

ITL has also provided unparalleled support to the industry for special purpose cutting applications like Aluminum runner-riser, Graphite slabs, Silicon, Gas Cylinder neck/end cutting, Radial Tyre etc. with complete tooling up/fixturing.

In the endeavor to bring the latest and most advanced solutions, ITL has developed - India's first NC & CNC Controlled Circular Saw Machines with TCT as well as HSS saw blades.

TCT Circular Saw Machines are the new benchmark of productivity in Mass – production applications. Such machines are replacing shearing machines, Automatic bundle cutting bandsaw machines, and Automat lathes (Traub) machines.

Salient Features:

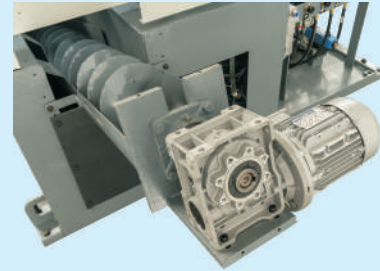
- High precision machine with the cut-length accuracy up to +/- 0.050** mm per 100 mm. Using high precision ball screw with AC Servo motor for the super fast and precise movement of the shuttle table.
- Controlled Crop cut feature for precise length setting of first cut piece of new bar.
- Ergonomically designed machine canopy provides ample space for cutter change, regular check up and preventive maintenance.
- Excellent cut-surface finish which does not require any facing operations. Thus significant material and production time savings.
- Longer cut pieces can be cut very easily as the shuttle stroke is 1000 mm, with multi indexing.
- Hydraulic Wire brush for efficient and positive cleaning to the saw blade.
- Infinitely variable saw speed control through Inverter/Variable Frequency Drive.
- Top Clamping + Horizontal clamping possible in work Table
- Double bar Cutting for Round job Max. dia 30 mm, Min. dia10 mm.
- No additional Jaws required for Min. & Max. Job capacity of Machine.
- Having strengthen Fix Jaw in Work table for better clamping of Job.
- Feed Assly with Dead Weight Cylinder for better performance.
- Feed Assly is at 45° of Cutter entry for better performance.
- Hard Carbide Shoe is provided for guiding Cutter which Helps in better cutter life & performance.
- Hard Shoe position is very close during Cutting of Bigger Job Like dia 80 which helps to improve Cutting accuracy & Better Cutter life.
- New improved Look of Cabinet Assly & Control Panel Assly.
- Bed Assly is Designed with Proper Chip Management.
- Having of Shuttle with Floating facility for insertion of Job in Work Table of Avoid Rubbing.
- Variable vice pressure for cutting pipes. (Optional)
- Flood coolant system (Optional)
- Exhaust fume oil separator (Optional)
- Auto loader front guard of sheet metal. (Optional)

Applications of Circular Saw Machines-

- Most suitable for cold forge shops as very close weight variation in cut piece
- Forging Units
- Cutting Traders
- Automobile Industries
- Fittings/ Fasteners Manufacturing
- Arms & Ammunitions
- Infrastructure
- Refineries & Petrochemical
- Forging Units to cut end pieces
- End cutting in CNC production centres for Auto components.
- General purpose application where batch cutting required.



Automatic Bar loader for Round/Square/Hex jobs, for continuous feeding of the bars into the machine.



Automatic swarf conveyor suitable to take out the chips out of the machine.



PLC programmable controlled Auto lubrication system for periodic and desired Quantity lubrication.



Micro mist oil used as coolant is clean, eco-friendly and highly effective. No water-flood coolant is used thus no spillage and no dirty shop-floors.

No requirement of coolant filtration processing. Swarf generated from cutting is absolutely dry thus the cost-realization of scrap after selling is much better than conventional band-sawing machines. This implies better business economics !



HMI Self diagnostic feature for easy trouble shooting, warning, cautions, alerts, etc. HMI display feature lot size programmed & cut completed, program number in use, current drawn by saw motor, etc.



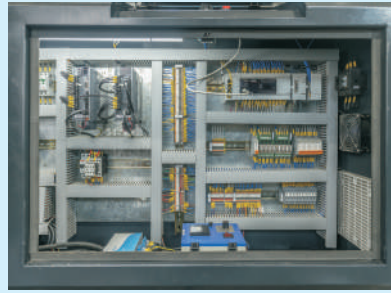
Rigid construction of the Slant type cutting head, moves on state of the art Linear Motion Guide ways which facilitates very accurate and nearly friction less movement. Because of the use of linear motion guides the life of cutter is

substantially increased.

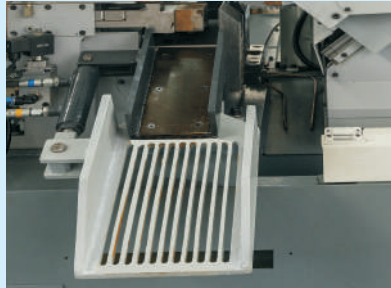
Back-Lash Free Gear Box using Electro Magnetic Powder Break Mechanism, which improves the cutting finish and enhances the cutter life.

Specifications

	SPECIFICATIONS	CSNC-80XL
Cutting Capacity	Round Bar	10-80 mm
	RCS Bar	10-60 mm
	Square Solid Bar	10-55 mm
	Stock Bar Length	3-6 mtr.
	Cut-Off Length	Min 6mm upto 1000mm or higher length with multi indexing
	Remnant Length (in mm)	60+ Cut length
	Type	TCT/HSS
Circular Saw Cutter	Dia. X Thickness Body Thickness x Bore	285x2.0x1.70x32 4/9/50 + 4/11/63
	Nos. of Mounting Hole & PCD	
	Saw Speed by VFD	50-200 mpm
	Coolant	Flood / Micromist
Coolant	Flood Coolant (Optional) Tank Capacity	80 Ltrs.
	Micro-mist Tank Capacity	1 Ltrs.
	Air Pressure for Micro-mist	6 Bar
Saw Motor	Power (KW / HP)	11.2 KW/ 15HP
Hyd. Motor	Power (KW / HP)	2.2 KW/ 3HP
Hydraulics	Tank Capacity	80 Ltrs.
	Control Volts	24 V DC
Electricals	Supply	415 V/3 Ph/ 50 Hz
Floor Space Machine Size	LxWxH without auto loader in mm (approx.)	2500x2550 x 1900
Weight (Approx.)	Standard Machine	3200 kgs



Ergonomically designed Electric control panel with HMI touch screen, located at the front-bottom for easy operation and maintenance.



Crop cut separator for Trim-cut and Remnant end-piece.



Well Placed hydraulic Power pack for easy maintenance and trouble free operation.

The above specifications & designs are subject to change without prior notice. Optional accessories shown in the pictures may not be part of standard equipment.
** Condition Apply

Note: These machine require stabilized power supply of 3 Phase 415 VAC. though an IGBT Type Stabilizer. These machines work with Micro-mist Cooling arrangement, which require dry compressed air (compressor must have dryer in it) at 6 bar (minimum) continuous pressure & regular supply with an FRL unit in the air input line.
20 CFM - In CSNC-80 XL models.



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

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