

# CUTTING EDGE TECHNOLOGY



Automatic Bandsaw Machine With Hydraulic Shuttle Table

 **INDO TECH**  
Machines Pvt. Ltd

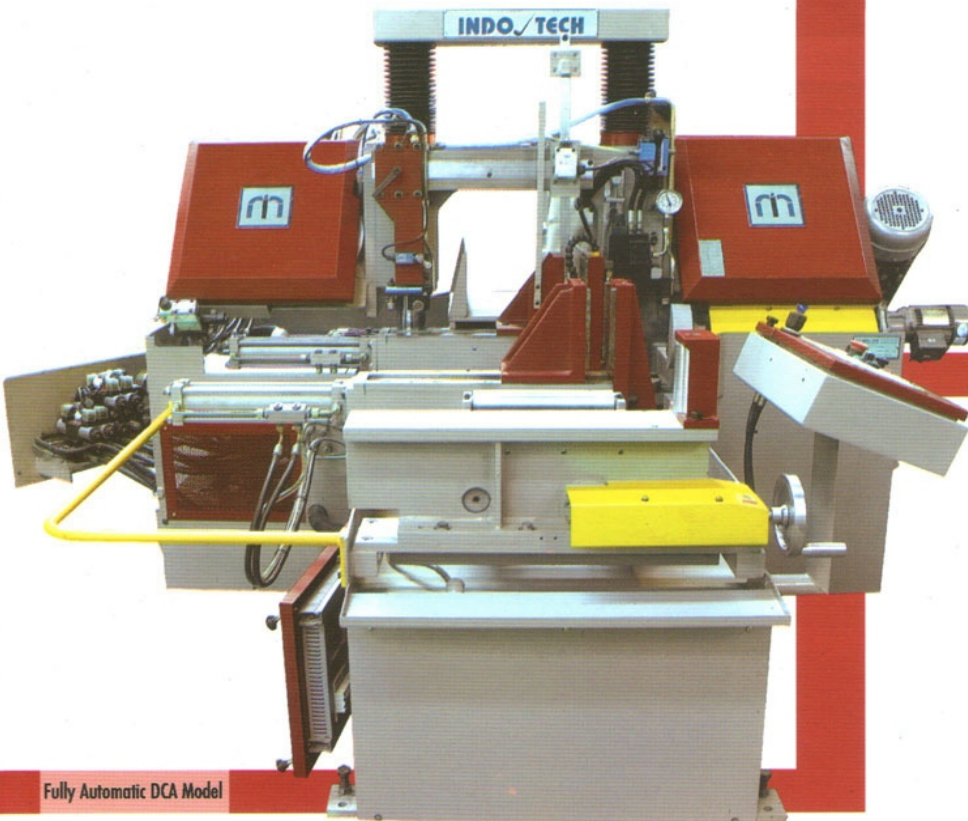
## Fully Automatic Double Column Bandsaw Machine

### Standard Supply

- ✓ High Efficiency Power Transmission through HELICAL GEAR BOX.
- ✓ Double Acting Hydraulic Cylinder for Main Vice and Shuttle Vice.
- ✓ State of art Hydraulic Blade Tensioning.
- ✓ Hydro-Mechanical Sensor for sensing hard layers and controlling the feed within range.
- ✓ Infinitely variable Feed Control Valve for setting the cutting rate
- ✓ Step Pulley with V-Belts.
- ✓ Rapid approach of saw frame to save idle time.
- ✓ Friction type rotating cleaning wire brush.
- ✓ Auto indexing shuttle with stroke length of 600mm and synchronized with auto cycle. (For 210mm Model stroke length is 300 mm)
- ✓ Adjustable Dovetail type Heavy duty Movable Blade guide.
- ✓ Specially designed Fixed Blade guide with internal coolant flow for better cooling and lubrication of Blade as well as improved life of Carbide Wear Plates.
- ✓ Door Mounted Hydraulic Power Pack for easy maintenance.
- ✓ Ergonomically designed Electrical Control Panel.
- ✓ Lubrication system by hand operated pump for main columns
- ✓ Cycle sequencing thru PLC.
- ✓ Length setting thru Digital SIKO Meter.
- ✓ Rubber Bellows for Column Protection.
- ✓ Automatic Machine SWITCH OFF, in case of Blade Breakage.

### Optional Features Available

- ❑ Highly Precise length setting through SERVO SYSTEM
- ❑ Accurate variable down feed through PROPORTIONAL VALVE.
- ❑ Hydraulic bundle cutting attachment
- ❑ Electrically Driven Swarf Conveyor
- ❑ Automatic Lubrication system for main columns
- ❑ Recommended spares
- ❑ Powerised wire brush unit (Cost of friction wire brush adjusted)
- ❑ A.C. frequency control drive for infinite variation of band speed thru control panel (suitable ratings saw motor shall be used in place of standard motor) (cost adjusted for standard motor / standard pulley set)
- ❑ Roller support stand one meter long with vertical guide rolls
- ❑ Micromist coolant arrangement
- ❑ Blade Tension meter for periodic checking of blade tension for optimum tool life



Fully Automatic DCA Model



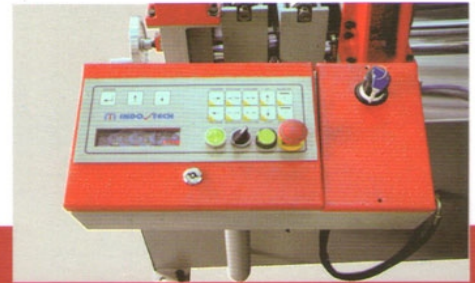
▶ Power Pack

A very easy to maintain valve assembly mounted on door for easy removal. All connections are done with the help of rubber hoses instead of MS tubes thus avoiding pressure drops and leakages. Replacements of components is also much easier.



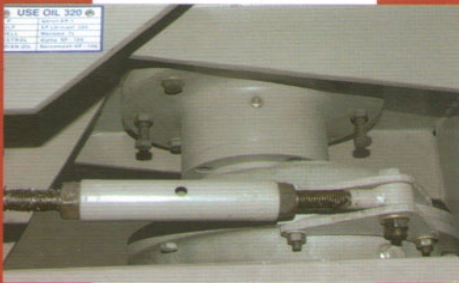
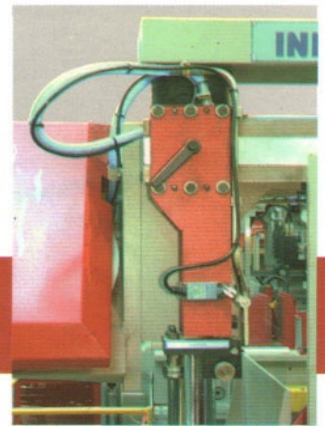
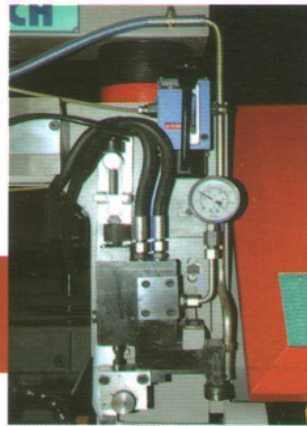
▶ Ergonomically designed electrical panel

All electrical components have clear designation and neatly mounted on the door for easy maintenance. It is well covered and designed to keep dust and moisture away from critical components.



▶ Operator console

An ergonomically designed console with all must have function controls, also includes an Emergency stop just in reach of the operator. Its easy, compact and accessible controls reduces operator's fatigue and improve productivity.



#### ◀ Bearing Housing

Equipped with 2 Nos. Heavy Duty Taper Roller Bearings to take care of the radial load arising due to hydraulic blade tensioning. This helps isolate the main gear box from the radial load which is not in case of other conventional machines.

#### ▲ Hydro-Mechanical Sensor

This is one of the most essential feature when cutting Steels, where in general homogeneity of material is unknown, irrespective of the material grade. It is specially developed, looking to the Indian Material, in which layers of hardness will mostly be found. It regulates the feed during cutting across the Material's Hard Layers. It is a unique feature, which reduces the damage i.e. increases the blade life and overall performance of the machine.

#### ▲ Dovetail type movable blade guide

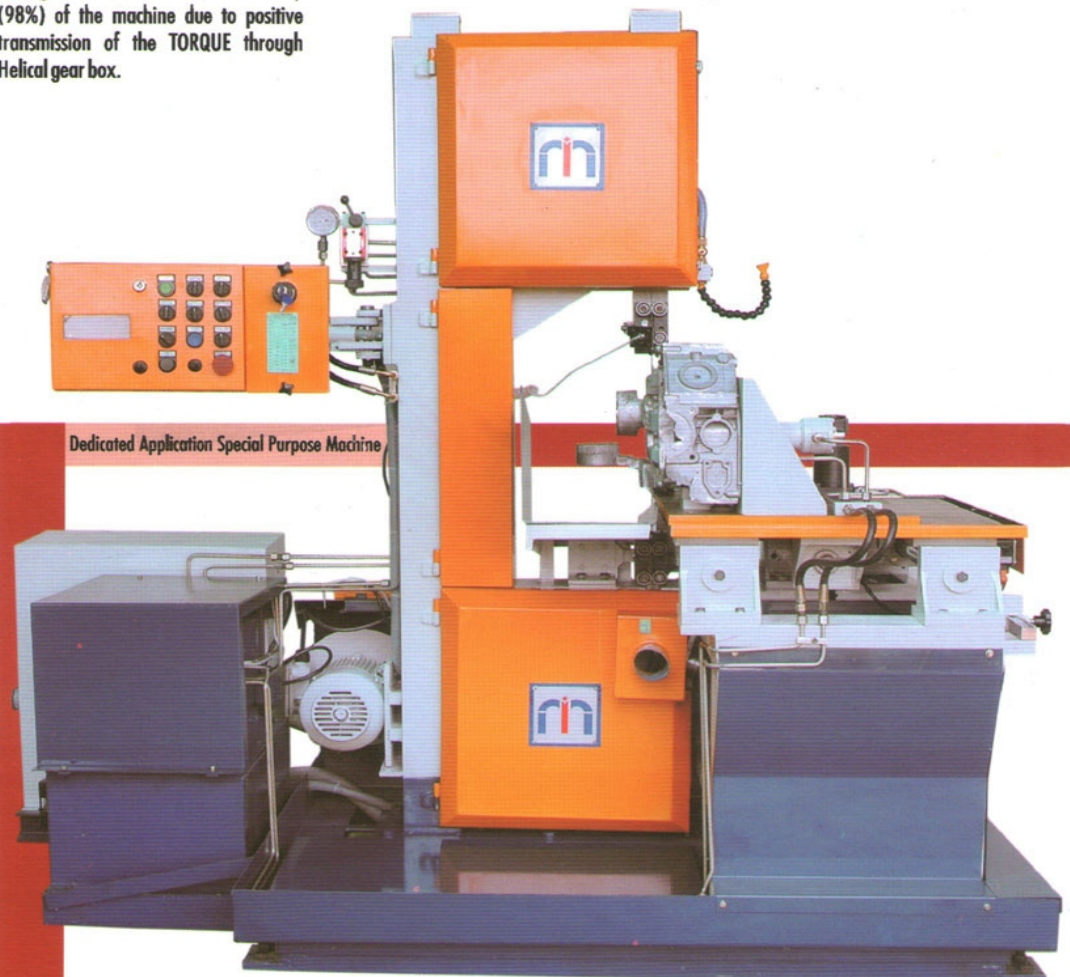
Most critical component of the machine designed and manufactured to excellence, which play an important role in vibration free operation and improved overall performance of the machine, including higher tool life and increased cutting rates. It is very rigid and heavy duty, made to withstand heavy cutting forces.

The guides and its support are in one line and hence avoid any kind of cantilever structure, which normally has a tendency to deflect during load condition.



#### ◀ Gear Box

Gear Box is now of Helical Type in stead of WORM type, which in turn increases the cutting rates and the overall efficiency (98%) of the machine due to positive transmission of the TORQUE through Helical gear box.



Dedicated Application Special Purpose Machine

## Specifications

Machine Models	210 DCA/DCTV	300 DCA/DCTV	360 DCA/DCTV	460 DCA/DCTV	550 DCA/DCTV	650 DCA/DCTV	800 DCTV	1250 DCTV	1500 DCTV
Cutting Capacity in mm									
Square	210 x 210	300 x 300	360 x 360	460 x 460	550 x 550	650 x 650	800 x 800	1250 x 1000	1500 x 1500
Round	210	300	360	460	550	650	800	1000	1500
Cutting Speed in Mtr/min.	20-100	20-100	20-100	20-100	20-100	20-100	20-100	20-100	20-100
Blade Size in mm	3760x27x0.9	4100x34x1.1	4860x41x1.3	5800x41x1.3	6900x54x1.6	8000x67x1.6	8800x67x1.6	12300x67x1.6	14100x80x1.6
Saw Motor Capacity in H.P.	4	5	7.5	10	12.5	12.5/15	15	20	20/25
Hyd. Motor Capacity in H.P.	1.5	1.5	1.5	2	2	2	2	3	3
Coolant Motor Capacity in H.P.	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Hydraulic Reservoir in Ltr	100	100	100	100	100	100	100	100	100
Approx Weight in Kg (DCA)	1500	2500	3250	4850	7850	10200	11900	18700	25200
(DCTV)	1250	2150	2650	3450	5500	7800	9600	15500	21500
Overall Dimensions in mm(DCA)	1880x1830x1524	2400x2000x1900	2600x2200x2100	3200x2250x1850	3775x2925x2200	4600x3000x2500			
(DCTV)	1880x900x1524	2400x1100x1900	2600x1200x2100	3200x1700x1850	3775x1800x2200	4600x1875x2500	4700x1900x2900	6000x2000x3475	7000x2100x4550

