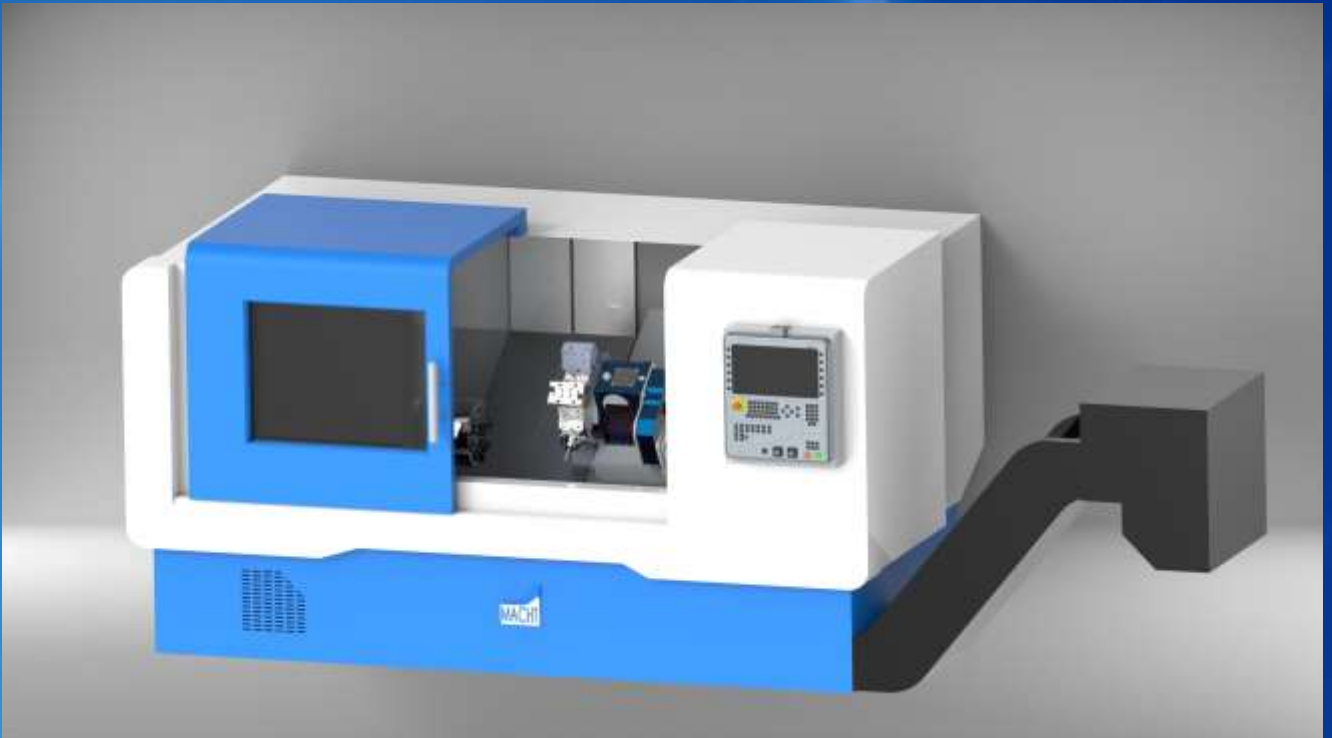




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MACHT's "CNC Turning Machines"

MT-30-1250



www.macht-technologies.com



Macht Technologies Pvt. Ltd.

Philosophy Behind the Machines

MACHT has been in Machine Tool Building for the past 25 Years and has built an extensive Knowledge-base over the years, in Precision Machine Building.

Having been in the Precision Manufacturing too we were well aware of what a Customer needs from a Machine. We have put in our knowledge gathered over the years to develop CNC Machines which are Robust yet Precise, Sturdy yet Agile, reliable workhorse which wont let our customers down



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Salient Features of the Machine

Machine Base

Single Unit Precision Welded Stress Relieved Structure reinforced with **Cast Granite** to impart the rigidity and damping properties essential for High Speed Machining . The bed weighs ca. 4 Tons.





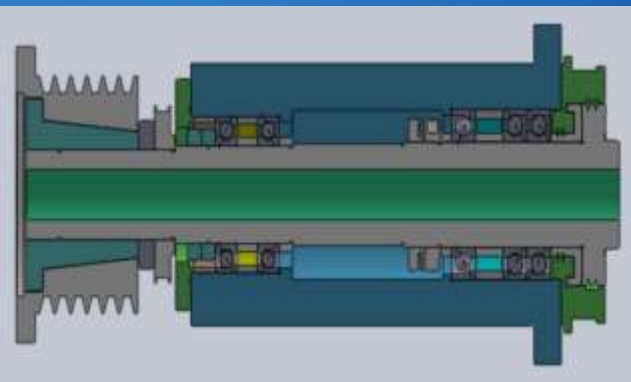
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Main Spindle Unit

The Spindle Unit runs on Precision Angular Contact Bearings greased for life.

Spindles are designed to accommodate Bars as per International Norms for bar Feed Operation



Depending on your or your products requirements we have Spindles available in A2-4 to A2-8 Size with Bar Capacity ranging from 25-75 mm .



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Slide System



The Slide System is fitted with Precision **LM Roller Guide-ways** as well as precision pre-loaded Ball Screws, which are suited to take heavy cuts.

Because of the above features imparted to the machine we are able to take **depth of cuts** (*on radius*) of as high as 4-5 mm on our machines, hence giving good chip producing capacity to the machine, thereby reducing Cycle Times



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Specification Sheet

Sl.No.	Description	Unit	Macht
	<u>Model</u>		MT 30
1	Max. Turning dia	mm	600
2	Chuck size	mm	300
3	Max swing Dia over carriage	mm	310
4	Length of component between Centers	mm	1250
5	Bar feed capacity	mm	75
	<u>Spindle</u>		
6	Nose DIN 55026		A2-8
7	RPM		3000
8	Power	KW	11 KW 100% Eff
9	Front Bearing Dia		140
10	Rear bearing dia		130
11	Spindle Bore	mm	85
12	Bar Capacity	mm	75
	<u>X axis</u>		
13	Travel	mm	325
14	Rapid Traverse rate	M/min	20
15	Ball screw dia	mm	40 (10mm Pitch)
16	Servo power	Nm	11
	<u>Turret</u>		
17	No. of tools		8
18	Tool size	mm	32x32
19	Tool to tool time	sec	0.6 (45 Degrees)
20	Chip to chip	sec	3.0
	<u>Z axis</u>		
21	Travel	mm	1250
22	Rapid Traverse rate	M/min	20
23	Ball screw dia	mm	40 (10mm Pitch)
24	Servo power	Nm	11
	<u>Tail Stock (Optional)</u>		
25	Quill size / Stroke	mm	100 / 120
26	Taper internal		MT-4
	<u>Accuracies</u>		
27	Positioning accuracy x/z	mm	0.010/0.015
28	Repeatability accuracy x/z	mm	0.005
	<u>Controller</u>		
29	CNC		Fanuc / Siemens



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Add on Features

The above Machine(s) can be offered with many Add-on Features such as :

- Linear Position Readout System for X Axis for better accuracies on Diameter
 - Post Process Measuring System with Auto Tool Correction for uninterrupted Production and better Process Control
 - Live Tooling
 - Heavy Duty Imported Turret for better accuracy and chip producing capacity
 - Tool Wear Checking System
-



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Our “Made to Order” Program

However the standard range of machine is just one aspect to our Turning Program.

We have been in the Specials Business for the last 24 Years and realize that ever customer / the components have their own unique needs. Hence we have based the design of our machines on the Modular Concept so as to impart flexibility to take on variety of components as well as build machines based on the Customer or their Components specific requirements. Hence besides the standard models we also offer our “Specials” Turning Program which we have named as :

“Made to Order CNC Machines”

Each Machine shall be suited to the family of components you wish them for based on their Size, Accuracy as well as the Productivity required.

Our Turning Machines Product Program includes :

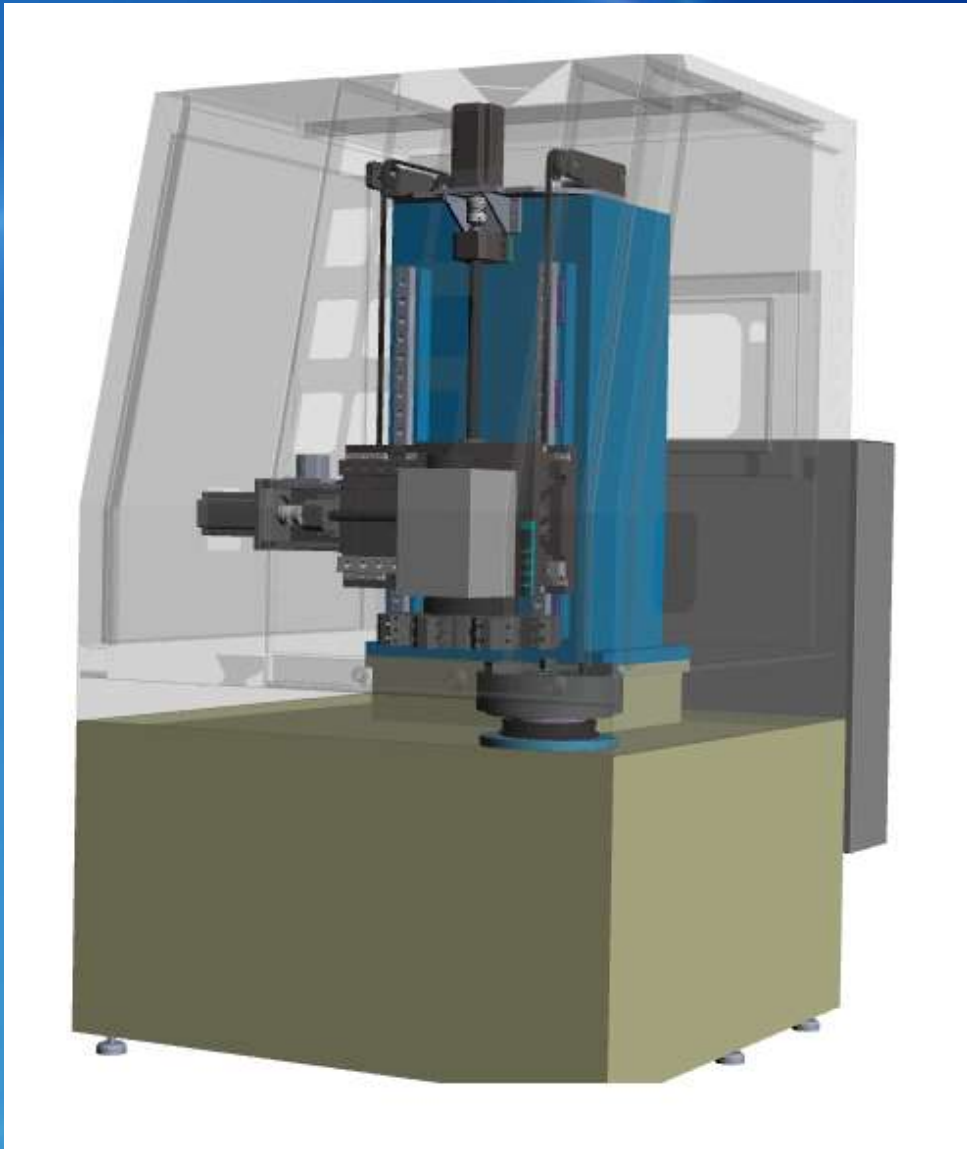
- **End Turning for Shafts (with Centering Facing and Clamping Diameter Generation)**
- **Middle Drive CNC Lathes with Multi Axes for Simultaneous Machining of Shafts**
- **Single Spindle Lathes (Horizontal or Vertical)**
- **Multi Spindle CNC Lathes**

Some of our Machines which we have in our Made to Order CNC Machines in our Program :-



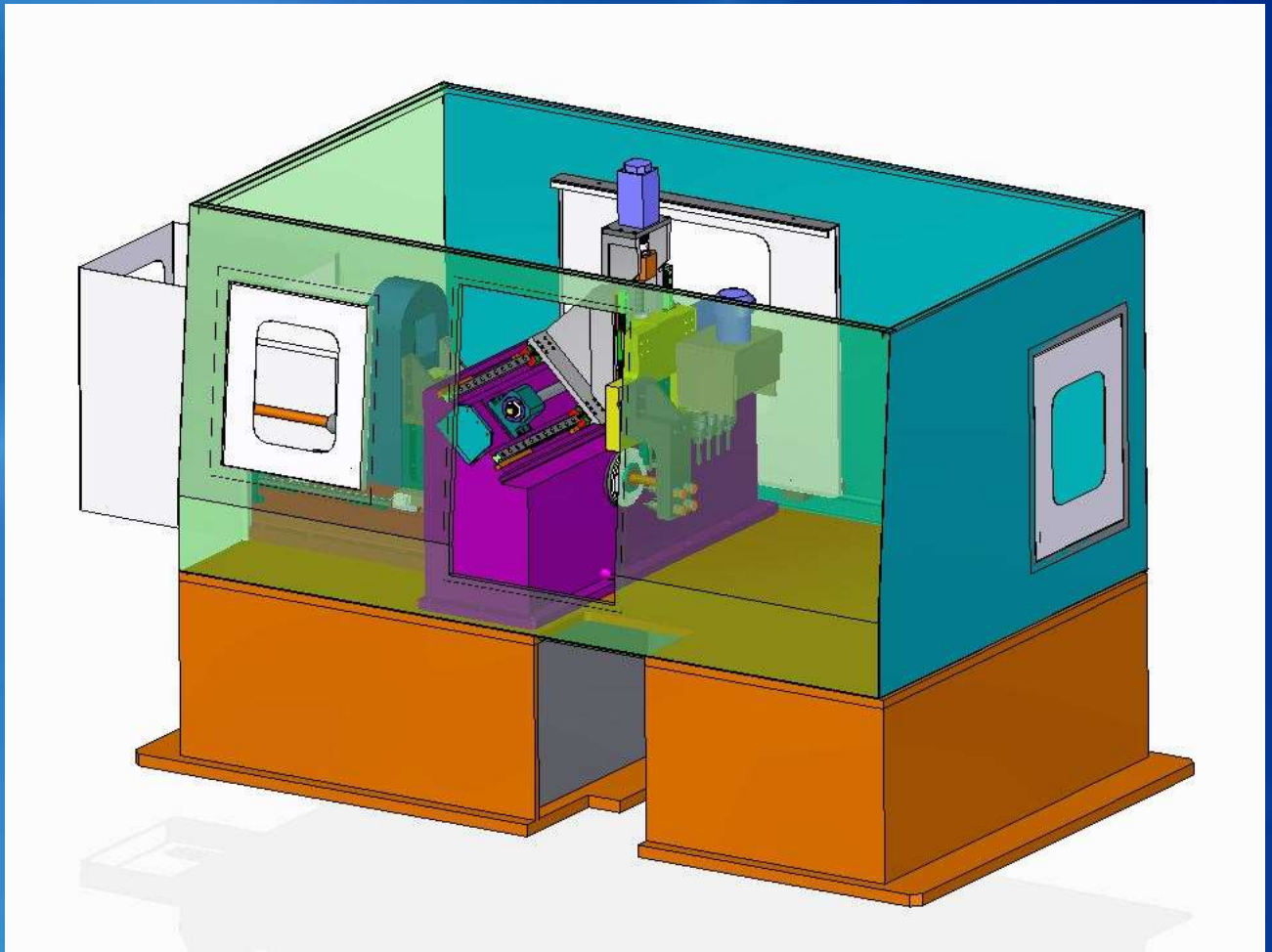
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VERTICAL TURNING LATHES





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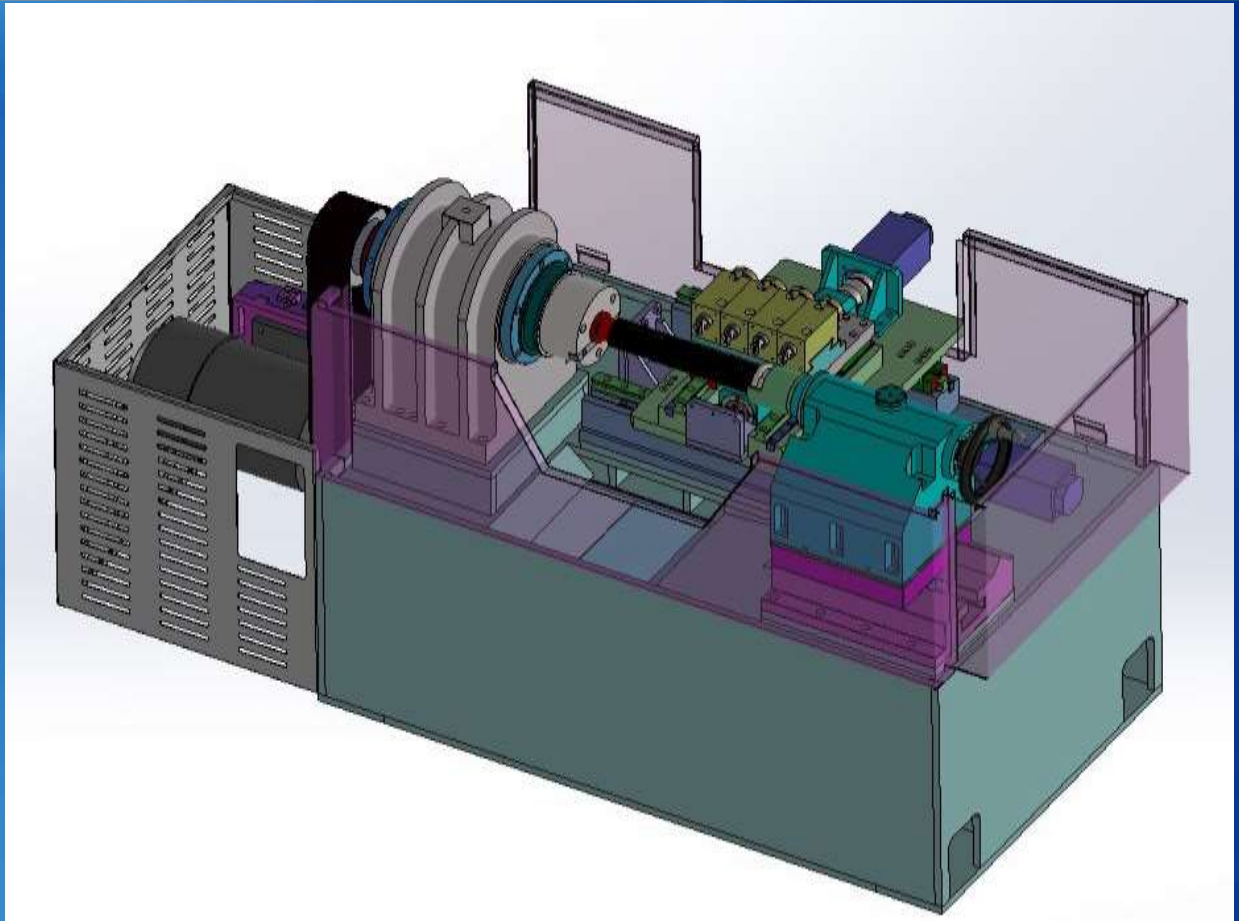


The SWISS LATHE is a type of Lathe where by the holding mechanism or collet is recessed behind the guide bushing.

The Swiss Lathe is likely to have 7 to 13 axes.



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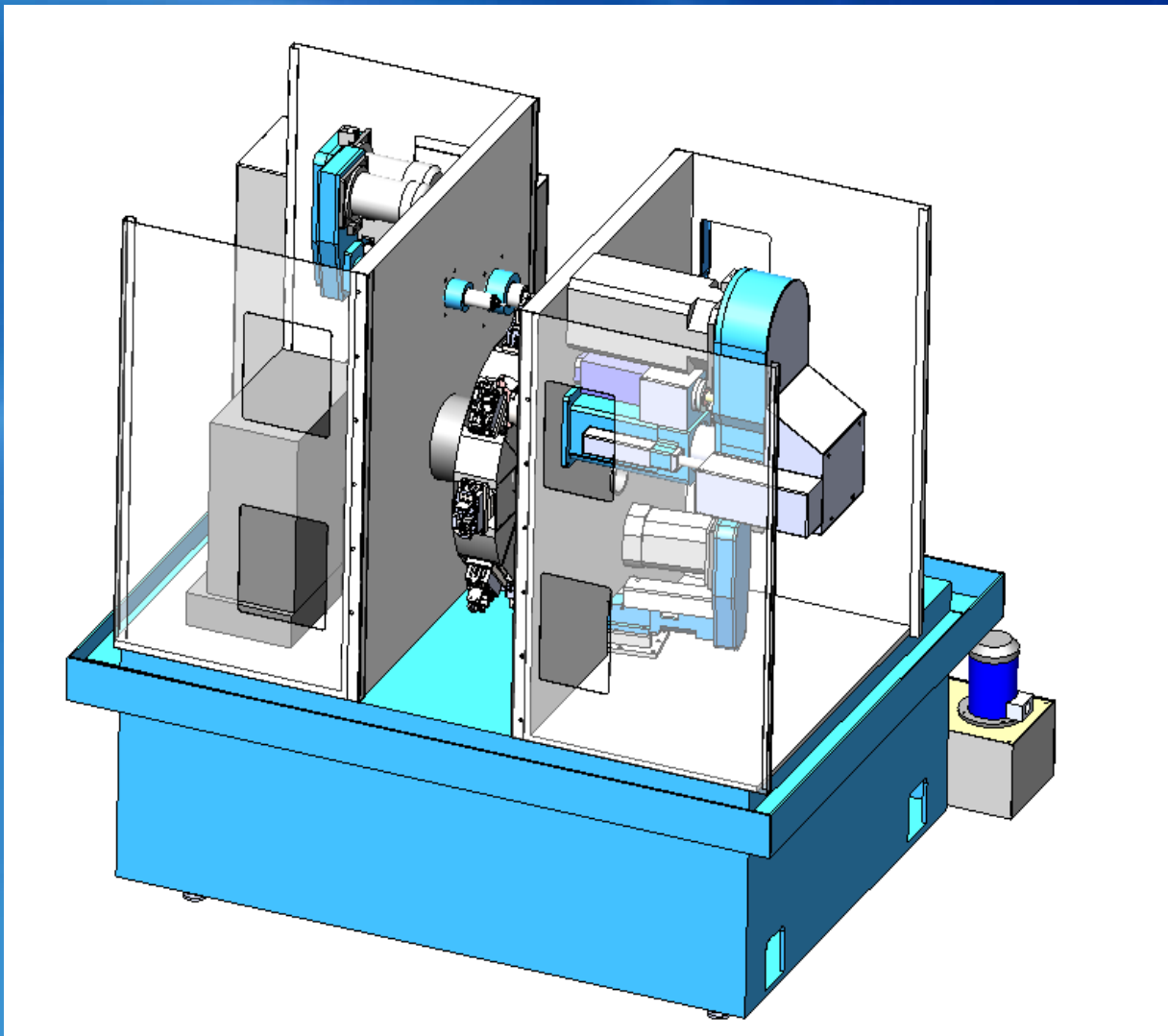


This is CNC Lathe for Ring Chamfering.

The piston rings are mounted on mandrel .The chuck is holding the mandrel and it is supported by centering tail stock.



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Horizontal Indexing type ROTARY TRANSFER MACHINE.

The operations can be performed on both sides of component.



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YouTube



YouTube



This ROTARY TRANSFER MACHINE with 6 stations has been envisaged to achieve high productivity. As the operations at different stations are performed simultaneously the Cycle time of the machine is the Longest Operation Type for the particular component.



Macht Technologies Pvt. Ltd.

Looking forward to your enquiries and we hope you shall continue to support us as before in our Mission to produce better machines. We thank you for your time and the interest you have shown in our company.



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