



TIRUPATI

CNC PRODUCTS

Turn Your Life



Mfg. :

- CNC Lathe Machine - Flat Bed
- CNC Lathe Machine - Flat Bed Extra Heavy Duty
- CNC Turning Machine - Slant Bed
- CNC Big Bore/Oil Country Lathe Machine
- VMC Machine - Single/Double Column
- CNC Turn-mill Machine - Flat / Slant
- CNC Drill Machine - 2 Axis
- VMC Drill Machine - 3 Axis
- CNC Roll Turning Lathe Machine
- Lathe Machine - Conventional

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Introduction

Established in 1988, **Tirupati Hydraulic** began its journey in Atika, Rajkot, with the manufacturing of conventional lathe machines. From the very beginning, the company focused on precision engineering, durability, and customer satisfaction.

With growing demand and continuous technological development, we expanded our manufacturing operations in 2005 by setting up a larger and more advanced facility at Shapar-Veraval, Rajkot, Gujarat. This expansion enabled us to manufacture heavy-duty and high-capacity machines to meet the evolving needs of modern industries.

Since 2011, the company has been operating under the name **Tirupati CNC Products**, establishing itself as a reliable manufacturer and supplier of CNC and lathe machines across India. Our CNC machines are marketed under the “**TCP**” brand, while our conventional lathe machines are offered under the trusted “**DHARA**” brand.

Founded by **Late Shri Pravinbhai Jivabhai Sojitra**, the company stands on the strong foundation of his vision, values, and dedication to quality manufacturing. His commitment to engineering excellence and ethical business practices continues to guide our organization.



INFRASTRUCTURE

Who we are

- **38 years** experience in Machine Tools (since 1988)
- **99,000** sq.ft. Total Assembly Production Area
- **9000+** Machine Installations Globally
- **6** Assembly Lines
- **900+** Machines Production Capacity Per Annum
- Experienced **R&D** Team
- **TUV NORD ISO 9001:2015 CERTIFIED**
- **ZED REGISTERED COMPANY**
- **Made In India Make For The World**





Product Range

CNC Lathe Machine - Flat Bed

Standard / Extra Heavy Duty

Turning Dia. 200 to 2200 mm | Turning Length 300 to 10000 mm



CNC Big Bore / Oil Country Lathe Machine

Spindle bore Up to 500 mm, Twin Chuck (manual or automatic)



CNC Roll Turning Lathe Machine

Turning Dia. up to 3000 mm | Turning Length up to 10000 mm



CNC-VMC Drill Machine - 2/3 Axis Single Column

Work Piece Dia. up to 2000 mm



CNC Turning Machine - Slant Bed

Turning Dia. 200 to 1000 mm | Turning Length 300 to 6000 mm



CNC Turn-mill Machine - Flat / Slant

Turning Dia. 200 to 2200 mm | Turning Length 300 to 6000 mm



Vertical Machining Centre

Single / Double Column



Lathe Machine - Conventional

Light | Medium | Heavy | Extra Heavy |
Plano Type | All Geared | V - Belt Driven



03 Flat Bed CNC Lathe Machine

Standard Series



- Rigid Structure
- High Load Capacity
- Ideal for Workshop

SR. NO.	DESCRIPTION	UNIT	TCP-HX-200	TCP-HX-250	TCP-HX-300	TCP-HX-450
CAPACITY						
1	SWING OVER BED DIAMETER	mm	350	450	550	750
2	MAXIMUM TURNING DIAMETER	mm	200	300	400	600
3	STANDARD TURNING DIAMETER (S.O.C.)	mm	200	250	300	450
4	STANDARD TURNING LENGTH	mm	300	300	650	450
	TURNING LENGTH - RANGE	mm	650/1000	650/1000	1000/1500/2000 2500/3000	750/1000/1500/2000/ 2500/3000/3500/4000
5	WIDTH OF BED	mm	275	325	375	450
6	HEIGHT OF CENTER	mm	225	250	300	400
SPINDLE						
7	SPINDLE NOSE		A2-5	A2-5	A2-6	A2-8
8	SPINDLE SPEED	RPM	1500	1200	800	800
9	SPINDLE MOTOR POWER (Induction)	HP	7.5	10	15	20
10	CHUCK SIZE / TYPE	mm	200 X 3 JAW HYD. CLOSED CHUCK	250 X 3 JAW HYD. CLOSED CHUCK	250 X 3 JAW HYD. CLOSED CHUCK	300 X 3 JAW HYD. CLOSED CHUCK
11	MAX. BAR CAPACITY (IF HOLLOW CHUCK)		25	25	50	70
AXIS						
12	X-AXIS STROKE	mm	100	150	200	300
13	X-AXIS RAPID	m/min.	8	8	8	8
14	X-AXIS BALLSCREW	mm	32 x 10	32 x 10	32 x 10	32 x 10
15	X-AXIS GUIDEWAYS		DOVETAIL GUIDEWAYS			
16	Z-AXIS STROKE	mm	300	300	650	450
17	Z-AXIS RAPID	m/min.	8	6	6	5
18	Z-AXIS BALLSCREW	mm	32 x 10	32 x 10	32 x 10	40 x 10
19	Z-AXIS GUIDEWAYS		3V AND 1 FLAT GUIDEWAYS			
TOOLING						
20	TURRET		SQTP-190			
21	NO. OF STATION	nos.	4			
22	MAX. BORING BAR CAPACITY	mm	32	32	40	40
23	TURNING TOOL SIZE	mm	25 x 25	25 x 25	25 x 25	25 x 25
LUBRICATION SYSTEM						
24	LUBRICATION SYSTEM		AUTO LUBRICATION			
TAILSTOCK (OPTIONAL)						
25	TAILSTOCK QUILL TRAVEL	mm	100	125	150	200
26	TAILSTOCK QUILL DIAMETER	mm	50	50	75	75
27	TAILSTOCK QUILL TAPER		MT-4	MT-4	MT-5	MT-5
CONTROLLER SYSTEM						
28	CONTROLLER		SIEMENS / FANUC / MITSUBISHI			
ACCURACY						
29	POSITIONING ACCURACY	mm/m	± 0.025	± 0.025	± 0.025	± 0.025
30	REPEATABILITY	mm	± 0.010	± 0.010	± 0.010	± 0.010
STRUCUTRE						
31	BASE TYPE		SHIMOGA (LEG TYPE)	SHIMOGA (LEG TYPE)	PLANO (SINGLE PIECE)	PLANO (SINGLE PIECE)
32	MACHINE WEIGHT - STD. - APPROX.	Kg.	2300	3000	3500	4000
33	MACHINE DIMENSION (L x W X H)	mm	2300 x 1400 x 1650	2450 x 1350 x 1600	3000 x 1850 x 1750	3250 x 2000 x 1900

OPTIONAL EQUIPMENT

- Hollow Chuck (Hydraulic / Pneumatic / Manual)
- 8/12 Station Tool Turret
- Upto 500mm Through Hole In Spindle Available

- Live Tool Turret
- Turning Length as per Requirement
- LM Guideways available
- Steady Rest (manual / hydraulic)

- Stabilizer
- Servo Motor In Spindle
- Manual / Hydraulic Tailstock
- Grinding / Keyway Attachment

Heavy/Extra Heavy Duty Series



- Extra Heavy Duty Machine
- High Cut Machine
- High Load Capacity

SR. NO.	DESCRIPTION	UNIT	TCP-HX-600	TCP-HX-800	TCP-HX-1000	TCP-HX-1400
CAPACITY						
1	SWING OVER BED DIAMETER	mm	925	1100	1500	1875
2	MAXIMUM TURNING DIAMETER	mm	800	1000	1400	1800
3	STANDARD TURNING DIAMETER (S.O.C.)	mm	600	800	1000	1400
4	STANDARD TURNING LENGTH	mm	300	300	600	600
	TURNING LENGTH - RANGE	mm	600/900/1200/1500/2000/2500/ 3000/3500/4000/4500/5000	600/900/1200/1500/2000/2500/ 23000/3500/4000/4500/5000	900/1200/1500/2000/2500/ 3000/3500/4000/4500/5000	900/1200/1500/2000/2500/ 3000/3500/4000/4500/5000
5	WIDTH OF BED	mm	600	750	1000	1200
6	HEIGHT OF CENTER	mm	500	600	800	1000
SPINDLE						
7	SPINDLE NOSE		A2-8	A2-11	A2-15	A2-15
8	SPINDLE SPEED	RPM	600	600	300	300
9	SPINDLE MOTOR POWER (Induction)	HP	20	25	30	40
10	CHUCK SIZE / TYPE	mm	400 X 3 JAW HYD. CLOSED CHUCK	530 X 3 JAW HYD. CLOSED CHUCK	630 X 3 JAW HYD. CLOSED CHUCK	800 X 3 JAW HYD. CLOSED CHUCK
11	MAX. BAR CAPACITY (IF HOLLOW CHUCK)		70	100	125	125
AXIS						
12	X-AXIS STROKE	mm	400	500	700	900
13	X-AXIS RAPID	m/min.	6	6	4	4
14	X-AXIS BALLSCREW	mm	40 x 10	40 x 10	50 x 10	50 x 10
15	X-AXIS GUIDEWAYS		DOVETAIL GUIDEWAYS			
16	Z-AXIS STROKE	mm	300	300	600	600
17	Z-AXIS RAPID	m/min.	5	5	4	4
18	Z-AXIS BALLSCREW	mm	50 x 10	50 x 10	50 x 10	50 x 10
19	Z-AXIS GUIDEWAYS		3V AND 1 FLAT GUIDEWAYS			
TOOLING						
20	TURRET		SQTP-190			
21	NO. OF STATION	nos.	4			
22	MAX. BORING BAR CAPACITY	mm	50	50	50	50
23	TURNING TOOL SIZE	mm	25 x 25	25 x 25	32 x 32	32 x 32
LUBRICATION SYSTEM						
24	LUBRICATION SYSTEM		AUTO LUBRICATION			
TAILSTOCK (OPTIONAL)						
25	TAILSTOCK QUILL TRAVEL	mm	200	200	200	200
26	TAILSTOCK QUILL DIAMETER	mm	100	100	100	100
27	TAILSTOCK QUILL TAPER		MT-6	MT-6	MT-6	MT-6
CONTROLLER SYSTEM						
28	CONTROLLER		SIEMENS / FANUC / MITSUBISHI			
ACCURACY						
29	POSITIONING ACCURACY	mm/m	± 0.025	± 0.025	± 0.025	± 0.025
30	REPEATABILITY	mm	± 0.010	± 0.010	± 0.010	± 0.010
STRUCUTRE						
31	BASE TYPE		PLANO (SINGLE PIECE)	PLANO (SINGLE PIECE)	PLANO (SINGLE PIECE)	PLANO (SINGLE PIECE)
32	MACHINE WEIGHT - STD. - APPROX.	Kg.	5300	6800	8800	11200
33	MACHINE DIMENSION (L x W X H)	mm	3200 x 2000 x 2000	3500 x 2250 x 2150	4400 x 2700 x 2400	4500 x 2900 x 2750

OPTIONAL EQUIPMENT

- Hollow Chuck (Hydraulic / Pneumatic / Manual)
- 8/12 Station Tool Turret
- Upto 500mm Through Hole In Spindle Available

- Live Tool Turret
- Turning Length as per Requirement
- LM Guideways available
- Steady Rest (manual / hydraulic)

- Stabilizer
- Servo Motor In Spindle
- Manual / Hydraulic Tailstock
- Grinding / Keyway Attachment

CNC Roll Turning Lathe Machine



BEST SUITABLE FOR STEEL ROLLING MILLS, LARGE MACHINERY PARTS

SR. NO.	DESCRIPTION	UNIT	TCP-RT-600x3000	TCP-RT-800x4000	TCP-RT-1000x5000
CAPACITY					
1	Max. Turning Length	mm	3000	4000	5000
2	Max. Turning Diameter	mm	600	800	1000
3	Height of Centre	mm	525	635	750
4	Width of Bed	mm	760	900	1100
5	Max. Workpiece Weight (w/O Steady Rest)	Kg.	6000	8000	10000
HEAD STOCK AND SPINDLE					
6	Headstock Driven Type		V- Belt / All Geared	V- Belt / All Geared	V- Belt / All Geared
7	Headstock Spindle Taper		MT6	MT6	MT6
8	Spindle Front Axial Diameter	mm	215	215	250
9	Spindle Main Motor	kW	22 kW Induction	30 kW Induction	37 kW Induction
10	Spindle Speed	RPM	20 - 100	20 - 100	10 - 80
11	Headstock Bearing		Taper Roller	Taper Roller	Taper Roller
CHUCK					
12	Chuck Size	mm	600 x 4 Jaw Manual	750 x 4 Jaw Manual	1000 x 4 Jaw Manual
13	Chuck Clamping Diameter	mm	100 - 500	150 - 60	200 - 800
AXIS					
14	X-Ball Screw Diameter	mm	50 X 10	50 X 10	63 X 10
15	Z-Ball Screw Diameter	mm	63 X 10	63 X 10	80 X 10
16	X-Axis Cross Feed Speed	mm/min.	2 - 3000	2 - 3000	2 - 2500
17	Z-Axis Longitudinal Feed Speed	mm/min.	2 - 3000	2 - 3000	2 - 2500
18	X-Axis Rapid Movement	mm/min.	5000	4500	4000
19	Z-Axis Rapid Movement	mm/min.	4000	4000	3500
TAILSTOCK					
20	Tailstock Movable		Saddle-Assisted	Saddle-Assisted	Saddle-Assisted
21	Tailstock Quill Movable		Manual / Hydraulic	Manual / Hydraulic	Manual / Hydraulic
22	Tailstock Quill Diameter	mm	150	175	200
23	Tailstock Quill Travel	mm	250	300	350
24	Tailstock Quill Taper	mm	MT6	MT6	MT6
TOOLING					
25	Toolpost (Fixed Type)		One Piece Two Position	One Piece Two Position	One Piece Two Position
26	Tool Holder Size	mm	40 X 40	40 X 40	50 X 50
CONTROLLER SYSTEM					
27	Controller System		Siemens / Fanuc	Siemens / Fanuc	Siemens / Fanuc
BED					
28	Bed Guideways		3V & 1 Flat	3V & 1 Flat	3V & 2 Flat
29	Bed Type		One Piece Plano	One Piece Plano	One Piece Plano
STRUCTURE					
30	Machine Weight - Std. - Approx.	Kg.	10000	14000	20000
31	Machine Dimension (L x W x H)	mm	6300 x 2200 x 2050	7800 x 2600 x 2100	9050 x 2700 x 2400

Roll Hardness Up To 85 HRC



SS CHILLED ROLL



SG IRON ROLL



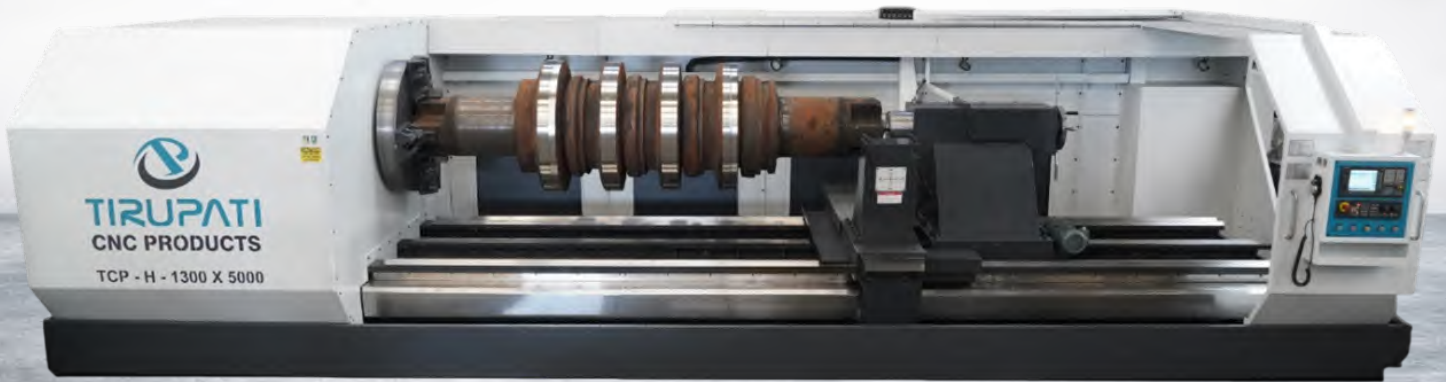
ADAMITE ROLLS



TC RING ROLLS

OPTIONAL EQUIPMENT

- Hydraulic Quill
- Motorized Tailstock
- Steady Rest
- Motorized Turret
- Chip Conveyor With Bin
- Revolving Centre
- Tool Shank & Insert



BEST SUITABLE FOR STEEL ROLLING MILLS, LARGE MACHINERY PARTS

SR. NO.	DESCRIPTION	UNIT	TCP-RT-1300x5000	TCP-RT-1500x6000
CAPACITY				
1	Max. Turning Length	mm	5000	6000
2	Max. Turning Diameter	mm	1300	1500
3	Height of Centre	mm	900	1050
4	Width of Bed	mm	1450	1600
5	Max. Workpiece Weight (w/o Steady Rest)	Kg.	18000	23000
HEAD STOCK AND SPINDLE				
6	Headstock Driven Type		V- Belt / All Geared	V- Belt / All Geared
7	Headstock Spindle Taper		Mt6	MT6
8	Spindle Front Axial Diameter	mm	280	280
9	Spindle Main Motor	kW	55 kW Induction	55 kW Induction
10	Spindle Speed	RPM	10 - 80	5 - 60
11	Headstock Bearing		Taper Roller	Taper Roller
CHUCK				
12	Chuck Size	mm	1000 x 4 Jaw Manual	1250 x 4 Jaw Manual
13	Chuck Clamping Diameter	mm	200 - 800	200 - 1000
AXIS				
14	X-Ball Screw Diameter	mm	63 X 10	63 X 10
15	Z-Ball Screw Diameter	mm	80 X 20	80 X 20
16	X-Axis Cross Feed Speed	mm/min.	2 - 2500	2 - 2500
17	Z-Axis Longitudinal Feed Speed	mm/min.	2 - 2500	2 - 2000
18	X-Axis Rapid Movement	mm/min	2000	2000
19	Z-Axis Rapid Movement	mm/min.	2000	2000
TAILSTOCK				
20	Tailstock Movable		Motorized With Gearbox	Motorized With Gearbox
21	Tailstock Quill Movable		Manual / Hydraulic	Manual / Hydraulic
22	Tailstock Quill Diameter	mm	250	300
23	Tailstock Quill Travel	mm	350	350
24	Tailstock Quill Taper	mm	Metric-80	Metric-80
TOOLING				
25	Toolpost (Fixed Type)		One Piece Two Position	One Piece Two Position
26	Tool Holder Size	mm	40 X 40	50 X 50
CONTROLLER SYSTEM				
27	Controller System		Siemens / Fanuc	Siemens / Fanuc
BED				
28	Bed Guideways		3V & 2 Flat	3V & 2 Flat
29	Bed Type		One Piece Plano	One Piece Plano
STRUCTURE				
30	Machine Weight - Std. - Approx.	Kg.	23000	28000
31	Machine Dimension (L x W x H)	mm	9500 x 3500 x 2550	10500 x 3550 x 2750

Advantages

- Reduced downtime by eliminating the manual Turning of rolls Faster machining.
- Ideal for machining split pass forms.
- Easily replaces more than 4 manual lathes and frees up the space and complexity on the workshop.
- Suitable for composite and carbide rolls.
- Significantly reduces the operation time and Operator time.
- Cost savings through reduced inventory of rolls.

Features

- High Torque capacity at Head stock Face plate.
- Zero backlash with ball screw
- Provision for higher cutting force.
- 4 Guide way or 5 guide way bed.
- Accurate geometric Dimensions of Fitment parts.
- Telescopic cover to protect guide ways.
- Rough and Finish Machining is achieved in the Lathe and with Siemens CNC System programming.
- Remote diagnostics with ethernet ready machine.

OPTIONAL EQUIPMENT

- Hydraulic Quill
- Motorized Tailstock
- Steady Rest
- Motorized Turret
- Chip Conveyor With Bin
- Revolving Centre
- Tool Shank & Insert

07 3 Axis VMC Drill Machine



SR. NO.	DESCRIPTION	UNIT	TCP-VX-500	TCP-VX-1000	TCP-VX-1250	TCP-VX-1600	TCP-VX-1800	TCP-VX-2000	
CAPACITY									
1	Max. Accommodate Diameter / Size	mm	500	1000	1250	1600	1800	2000	
2	Length Of Workpiece W/O Interference	mm	300	300	300	300	300	300	
3	Max. Drilling Capacity (U-drill)	mm	40	55	55	55	55	55	
4	Width Of Base	mm	375	600	900	1050	1050	1300	
5	Distance Of Spindle To Chuck/ Plate - Min./Max.	mm	50-300	75-350	75-350	100-350	100-350	100-350	
AXIS									
6	Axis Travel - X / Y / Z	mm	500/500/400	1000/1000/400	1250/1250/400	1600/1600/400	1800/1800/400	2000/2000/400	
7	Axis Guideways -	X	Dovetail Type						
		Y	2V and Flat						
		Z	mm	35LM Type	55LM Type	55LM Type	65LM Type	65LM Type	65LM Type
SPINDLE									
8	Spindle Main Motor	HP	10	20	20	20	20	20	
9	Spindle Speed - Max.	RPM	2000	1500	1500	1500	1500	1500	
WORK HOLDING									
10	Clamping Chuck	mm	300 x 4J Manual True	600 x 4J Manual True	600 x 4J Manual True	No Chuck	No Chuck	No Chuck	
11	Table Size	mm	300 x 350	500 x 500	500 x 500	1600 x 1600 Plate With T-Slot	1800 x 1800 Plate With T-Slot	2000 x 2000 Plate With T-Slot	
CONTROLLER SYSTEM									
12	Controller		Siemens / Mitsubishi	Siemens / Mitsubishi	Siemens / Mitsubishi	Siemens / Mitsubishi	Siemens / Mitsubishi	Siemens / Mitsubishi	
COOLANT & LUBRICATION SYSTEM									
13	Coolant Through Spindle		Included	Included	Included	Included	Included	Included	
14	Lubrication		Auto	Auto	Auto	Auto	Auto	Auto	
STRUCTURE									
15	Machine Weight - Std. - Approx.	Kg.	3500	7500	9500	13000	14500	16500	
16	Machine Dimension (L x W x H)	mm	2800x1900x2350	4000x3000x2800	4300x3000x2800	4600x3900x3000	5000x3500x3000	5400x4000x3000	

BEST SOLUTION FOR PCD AND PLATE DRILLING

OPTIONAL EQUIPMENT

- LM GUIDEWAYS IN X AND Y AXIS
- ATC - AUTOMATIC TOOL CHANGER
- SERVO MOTORISED SPINDLE FOR DRILL TAP
- SERVO MOTORISED SPINDLE FOR HIGHER RPM
- T SLOT TABLE
- SPINDLE BT 40 / BT 50

3 Axis VMC Drill Machine With ATC

08

SR. NO.	DESCRIPTION	UNIT	TCP-VX-500-ATC	TCP-VX-1000-ATC
CAPACITY				
1	Max. Accommodate Diameter / Size	mm	500	1000
2	Length Of Workpiece W/O Interference	mm	300	300
3	Max. Drilling Capacity (U-drill)	mm	40	55
4	Width Of Base	mm	375	600
5	Distance Of Spindle To Chuck/Plate - Min./Max.	mm	50-300	75-350
AXIS				
6	Axis Travel - X / Y / Z	mm	500/500/400	1000/1000/400
7	Axis Guideways -	X	Dovetail Type	
		Y	2V and Flat	
		Z	35LM Type	55LM Type
SPINDLE				
8	Spindle Type		BT-40	BT-40
9	Spindle Main Motor - Servo	HP	10	20
10	Spindle Speed - Max.	RPM	4000	4000
WORK HOLDING				
11	Clamping Chuck	mm	300 x 4J Manual True	600 x 4J Manual True
	OR			
	Table Size	mm	500 x 500	1000 x 1000
AUTOMATIC TOOL CHANGER				
12	Automatic Tool Changer	mm	UTAC-12	UTAC-12
13	No. Of Tool Position	mm	12	12
CONTROLLER SYSTEM				
14	Controller		Siemens / Mitsubishi	Siemens / Mitsubishi
COOLANT & LUBRICATION SYSTEM				
15	Coolant Through Spindle		Included	Included
16	Lubrication		Auto	Auto
STRUCTURE				
17	Machine Weight - Std. - Approx.	Kg.	3500	7500
18	Machine Dimension (L x W x H)	mm	2800x1900x2350	4000x3000x2800



OPTIONAL ACCESSORIES

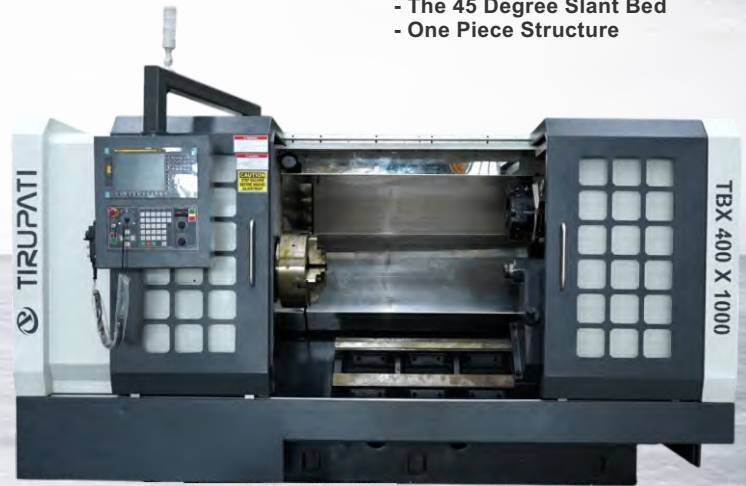
- LM GUIDE WAYS IN X AND Y AXIS
- BT-50 SPINDLE
- 20 TOOL AUTOMATIC TOOL CHANGER

CNC PCD Drilling Machine (2-AXIS)



SR. NO.	DESCRIPTION	UNIT	TCP-DX-500
1	Max. Accommodate Diameter	mm	500
2	Max. Drilling Capacity (U-drill)	mm	40
3	Width Of Base	mm	375
4	Distance Of Spindle To Chuck	mm	300
5	X Axis Travel	Degree	360° Indexing
6	Z Axis Travel	mm	400
7	X Axis Guideways		Rotary
8	Z Axis Guideways		35LM Type
9	Spindle Main Motor	HP	10
10	Spindle Speed - Max.	RPM	2000
11	Clamping Chuck	mm	300 x 4J Manual True
12	Controller		Siemens
13	Lubrication		Auto
14	Machine Weight - Std. - Approx.	Kg.	2500
15	Machine Dimension (L x W x H)	mm	2200 x 1500 x 2300

Slant Bed CNC Turning Machine



- The 45 Degree Slant Bed
- One Piece Structure

SR. NO.	DESCRIPTION		TBX-200L	TBX-250L	TBX-300L	TBX-450L	TBX-600L	TBX-800L
CAPACITY								
1	Swing Over Bed	mm	450	500	600	750	840	1070
2	Standard Turning Diameter	mm	200	260	320	450	630	800
3	Max. Turning Diameter	mm	350	375	480	600	810	940
4	Max. Turning Length	mm	300	500	500	500	1000	1250
	Turning Length - Options	mm	500/1000	750/1000	750/1000/1500/2000	750/1000/1500/ 2000/2500/3000	1500/2000/2500/3000/ 3500/4000	1500/2000/2500/3000/ 3500/4000
AXIS								
6	X-Axis Stroke	mm	200	200	250	310	410	490
7	Z-Axis Stroke	mm	300	500	520	700	1000	1000
8	X & Z Axis Rapid Feed Rate	m/min	24	24	24	24	20	15
SPINDLE								
9	Spindle Nose	Type	A2-5	A2-6	A2-8	A2-8	A2-11	A2-11
10	Spindle Bore	mm	45	55	75	75	110	110
11	Max. Bar Capacity	mm	35	45	63	63	90	90
13	Spindle Motor Power - Servo	HP	7.5	10	15	20	20	25
14	Spindle Speed	RPM	50-3500	50-3500	50-2500	50-2500	50-600	50-600
15	Chuck Size	mm	200 X 3 JAW	250 X3 JAW	300 X 3 JAW	400 X 3 JAW	600 X 3 JAW	800 X 3 JAW
TURRET								
16	No. Of Tool Station	Nos.	8	8	8	8	8	8
17	Max. Boring Bar Dia.	mm	40	40	40	40	50	60
18	Tool Size (Cross-Section)	mm	25 X 25	25 X 25	25 X 25	25 X 25	25 X 25	25 x 25 / 32 X 32
TAILSTOCK								
19	Tail stock Movement	Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
20	Quill Taper	Type	MT-3	MT-4	MT-4	MT-4	MT-5	MT-5
21	Quill Dia.	mm	75	75	75	75	100	100
22	Quill Stroke	mm	100	115	115	115	100	130
CONTROLLER SYSTEM								
23	Controller System		SIEMENS / FANUC / MITSUBISHI					
ACCURACY								
24	Positioning Accuracy	mm	0.010	0.010	0.010	0.010	0.015	0.015
25	Repeatability	mm	0.06	0.06	0.06	0.06	0.07	0.07
STRUCTURE								
26	Machine Weight - Std. - Approx.	Kg.	2800	3200	4200	5500	9000	14000
27	Machine Dimension (L x W x H)	mm	2600 x 1300 x 1700	2900 x 1400 x 1700	3100 x 1700 x 1800	3300 x 2000 x 1900	4100 x 2200 x 2000	4600 x 2100 x 2200

OPTIONAL EQUIPMENT

- Hollow Chuck (Hydraulic / Pneumatic / Manual)
- 12 Station Tool Turret
- Upto 350mm Through Hole In Spindle Available

- Live Tool Turret
- Turning Length as per Requirement
- Steady Rest (manual / hydraulic)
- Stabilizer

- Grinding / Keyway Attachment

Vertical Machining Centre Machine

Single Column



STANDARD FEATURES:

- RS 232 serial interface port
- AC variable speed spindle motor
- Automatic tool changer (20 tools)
- Basic coolant system with chip tray
- Manual Pulse Generator
- Machine light
- Centralised automatic lubrication
- Panel air conditioner
- Full machine guard
- Air gun
- Spindle taper air blow
- Ring coolant around spindle
- Maintenance tool kit

ADVANCED CUSTOMIZED VMC SOLUTION

SR. NO.	DESCRIPTION		TVM-600	TVM-800	TVM-1000	TVM-1470	TVM-1100
CAPACITY							
1	X - Axis	mm	600	800	1000	1400	1100
2	Y - Axis	mm	400	520	600	700	1100
3	Z - Axis	mm	400	550	600	700	1100
4	Table Top to Spindle Face	mm	100 to 500	100 to 650	150 to 750	150 to 850	150 to 1300
5	Spindle Centre (Column Front Distance)	mm	500	530	640	800	1170
TABLE							
6	Table Size	mm	810 x 440	1000 x 550	1200 x 650	1550 x 660	1100 x 1100
7	Table Slot (No. / Size / Pitch)	mm	3/18/125	5/18/100	5/18/100	18/5/125	8/20/125
8	Max. Load on Table	Kg.	400	500	1000	1500	3000
9	Floor To Table Top Distance	mm	950	950	950		1200
SPINDLE							
9	Spindle Nose		BT-40	BT-40	BT-40	BT-40	BT-40
10	Bearing Diameter	mm	60	70	70	70	70
11	Max. Spindle Speed	RPM	8000	8000	8000	8000	6000
12	Spindle Motor Power - Siemens	kW	5.5/7.5	9/12	9/12	11/15	15/18
13	Spindle Motor Power - Fanuc	kW	5.5/7.5	7.5/11	7.5/11		
14	Spindle Motor Power - Mitsubishi	kW	5.5/7.5	7.5/11	7.5/11	11/15	15/18
FEED RATE							
16	Rapid Traverse (X / Y / Z)	m./min.	25 / 25 / 25	25 / 25 / 25	25 / 25 / 25	20 / 20 / 10	20 / 20 / 10
17	Cutting Feed Rate (X / Y / Z)	m./min.	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10
ATC (Automatic Tool Changer)							
19	Tool Capacity	Nos.	24	24	24	24	20
20	Max. Tool Dia. (With Adj. Tool)	mm	80	80	80	80	50
21	Max. Tool Dia. (Without Adj. Tool)	mm	150	150	150	150	150
22	Max. Tool Length	mm	200	250	250	250	250
23	Max. Tool Weight	Kg.	8	8	8	8	8
ACCURACY							
24	Positioning Accuracy	mm	0.010	0.010	0.010	0.010	0.015
25	Repetability	mm	0.005	0.005	0.005	0.005	0.007
OTHER DATA							
26	Machine Weight - Std. - Approx.	Kg.					13000
27	Machine Dimension (L x W x H)	mm	2750 x 1850 x 2600	2900 x 2300 x 2900	3500 x 2850 x 3000	2750 x 3750 x 3250	3550 x 3600 x 3750

OPTIONAL EQUIPMENT

- Chip conveyor in lieu of chip tray
- High pressure coolant through spindle
- CNC rotary axis as 4th axis / indexing
- Coolant gun
- Automatic tool changer (30 tools)
- Voltage stabilizer

Vertical Machining Centre Machine

Double Column



STANDARD FEATURES:

- RS 232 serial interface port
- AC variable speed spindle motor
- Automatic tool changer (20 tools)
- Basic coolant system with chip tray
- Manual Pulse Generator
- Machine light
- Centralised automatic lubrication
- Panel air conditioner
- Full machine guard
- Air gun
- Spindle taper air blow
- Ring coolant around spindle
- Maintenance tool kit

SR. NO.	DESCRIPTION	UNIT	DCVM-1500	DCVM-2012	DCVM-2518
CAPACITY					
1	X - Axis	mm	1500	2000	2500
2	Y - Axis	mm	1500	1200	1800
3	Z - Axis	mm	750	750	750
4	Table Top to Spindle Face	mm	150 to 900	150 to 900	150 to 900
5	Spindle Centre (Column Front Distance)	mm			
6	Distance Between Column		1240	1340	1900
TABLE					
6	Table Size	mm	1600 x 1100	2100 x 1200	2600 x 1600
7	Table Slot (No. / Size / Pitch)	mm	22/7/125	22/7/160	22/11/125
8	Max. Load on Table	Kg.	2200	4000	6000
9	Floor To Table Top Distance	mm	945	945	925
SPINDLE					
9	Spindle Nose		BT-40	BT-50	BT-50
10	Bearing Diameter	mm	100	100	100
11	Max. Spindle Speed	RPM	6000	6000	6000
12	Spindle Motor Power - Siemens	kW	15/18.5	15/18.5	18.5/22
13	Spindle Motor Power - Fanuc	kW	15/18.5	15/18.5	18.5/22
14	Spindle Motor Power - Mitsubishi	kW	-	-	-
FEED RATE					
16	Rapid Traverse (X / Y / Z)	m./min.	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20
17	Cutting Feed Rate (X / Y / Z)	m./min.	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10
ATC (Automatic Tool Changer)					
19	Tool Capacity	Nos.	20	20	24
20	Max. Tool Dia. (With Adj. Tool)	mm	125	125	125
21	Max. Tool Dia. (Without Adj. Tool)	mm	200	200	200
22	Max. Tool Length	mm	400	400	300
23	Max. Tool Weight	Kg.	20	20	20
ACCURACY					
24	Positioning Accuracy	mm	0.020	0.020	0.020
25	Repetability	mm	0.008	0.008	0.008
OTHER DATA					
26	Machine Weight - Std. - Approx.	mm	14400	16300	24100
27	Machine Dimension (L x W x H)	mm	4700 x 3350 x 4150	5650 x 3450 x 4250	4600 x 5500 x 6650

OPTIONAL EQUIPMENT

- Chip conveyor in lieu of chip tray
- High pressure coolant through spindle
- CNC rotary axis as 4th axis / indexing
- Coolant gun
- Automatic tool changer (24 tools / 30 tools)
- Voltage stabilizer

INDUSTRIES SERVED

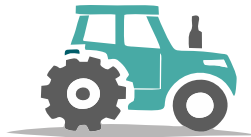
Our CNC machines are used across various industries for precision machining and high productivity



Automobile Industry



Aerospace Industry



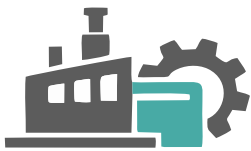
Agriculture Industry



Pump & Valve Industry



Mould & Die Industry



Heavy Engineering Industry



Tool & Die Making



General Engineering



Custom Engineering Parts

Components Produced on Our Machine



Flange



Forged Drill Adaptor



Disc Brake



Re Bar Coupler



Plunger



Weldolets



Drill Bit Head



Elevator Pulley



Trolley Wheel



Impeller



Roll



Valve Body



Hub



Nipple



V-groove Pulley



Axle



Casing Pipes



Drum



Multi Groove Pulley




Railway Brackets

Big Bore CNC Turn-Mill Centre With Both Side Pneumatic Chuck With Rear Side Hydraulic Jack Hydraulic Steady Rest

WHY THIS MACHINE IS UNIQUE

Details of the Machine	MAKE	BTC-510
CNC Technology		CNC Turn-Mill
Max. Turning Dia.		900mm
Max. Turning Length		1200mm
Spindle Nose		A2-20
Spindle Bore		280mm
Chuck Type		Pneumatic Chuck
Chuck	AUTOGRIP, TAIWAN	Front - 560 X 3 Jaw Rear - 560 X 3 Jaw
Turret	BARUFFALDI , ITALY	12 Station Turret
Controller	SIEMENS	Siemens 840 D SL (Touch Screen)
Accessories		Rear Side - Hydraulic Steady Rest - 5 Nos. Rear Side - Hydraulic Jack - 5 Nos.
Accuracy		0.005
Repetabilty		0.005

FEATURES :




BED :
Bed Construction - One-piece
Meehanite Cast Iron (High rigidity)

Slant Bed - 45 Degree



Chuck : Autogrip, Taiwan
Chuck type - Pneumatic chuck

Front - 560 x 3 jaw with 275mm bore
Rear - 560 x 3 jaw with 275mm bore




TURRET : BARUFFALDI, ITALY
TURRET TYPE - BMT TURN-MILL TURRET

TOOL STATION - 12 STATION



Controller : Siemens
Model - Siemens 840 D SL Touch Screen



Workpiece Handling System
Rear Side - Hydraulic Steady Rest - 5 Nos.
Rear Side - Hydraulic Jack - 5 Nos.

- Machine With :**
- Chip Conveyor With Chip Bin
 - Coolant System
 - Tooling
 - Panel Air Conditioner





WE ARE AVAILABLE IN

Western India

Gujarat
Maharashtra
Goa

Southern India

Karnataka
Andhra Pradesh
Tamil Nadu
Telangana
Kerala

Central India

Chhattisgarh
Madhya Pradesh

Northern India

Uttar Pradesh
Delhi
Uttarakhand
Rajasthan
Haryana
Punjab

Eastern India

Odisha
West Bengal
Bihar
Jharkhand
Assam



EXPORT MARKETS

U.A.E. (United Arab Emirates)
Oman
Qatar
Turkey
Afghanistan
Sri Lanka
South Africa
Nigeria
Algeria
Kenya
Thailand
Côte d'Ivoire (Ivory Coast)
Jordan
Nepal
Saudi Arabia
Bahrain
Egypt
Kuwait
Iran
Iraq
Bangladesh

Sales Network

Tirupati CNC Products has built a strong sales network across India with active presence in Gujarat, Maharashtra, Delhi, Karnataka, Tamil Nadu, Andhra Pradesh, Telangana, Kerala, Uttar Pradesh, and West Bengal. Our dedicated team provides local sales and technical support, ensuring proper product selection and prompt service at customers' doorstep. We also export our CNC machines and components to countries including UAE, Saudi Arabia, Oman, Turkey, Qatar, Kuwait, Kenya, Uganda, Ghana, Sri Lanka, Nepal, and Thailand, South Africa, Nigeria strengthening our global presence.

Service Network

After-sales service is a fundamental pillar of Tirupati CNC Products and reflects our strong commitment to long-term customer relationships. We provide responsive and well-structured service support across major industrial hubs including Ahmedabad, Mumbai, Pune, Bangalore, Chennai, Hyderabad, Kolkata, Lucknow, and Delhi. Through dedicated teamwork, technical expertise, and a quality-focused approach, we have built a highly satisfied customer base across India, with over 1000+ machines successfully installed in MNCs, public sector undertakings, private companies, and small-scale industries.



CNC PRODUCTS

Turn Your Life



UNIT - 1

Plot No. 15-16-17 Survey No. 255, Reveira Industrial Estate,
Shitalamataji Temple Road, Kishan Cement Gate,
Nr. PGVCL Substation, Shapar (Veraval),
Rajkot - 360024, Gujarat, INDIA

UNIT - 2

Plot No. 9 to 15 Survey No. 255, Tirupati Industrial Estate,
Shitalamataji Temple Road, Kishan Cement Gate,
Nr. PGVCL Substation, Shapar (Veraval),
Rajkot - 360024, Gujarat, INDIA

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