

"Sharper, Faster, Better: Your Cutting Partner for Efficiency in Every Cut and Quality in Every Piece."

Global Delivery Excellence:
Reaching You Worldwide.



Polygon - 5A

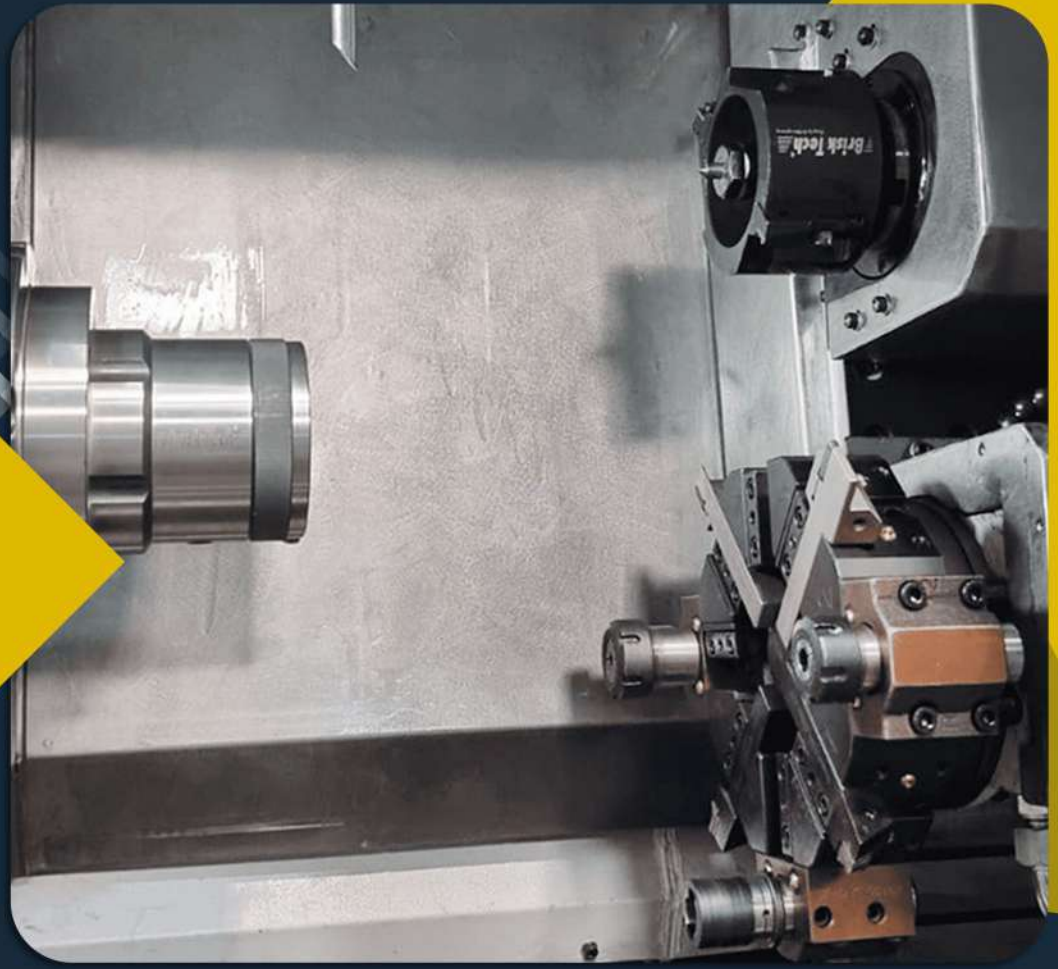


Polygon - 2A



Combo Polygon Lathe

ABOUT US



Excellent Technology | Cutting Edge (R&D) Premium Quality | High Precision

Brisk Tech Engineers was established in 2003, as a design consulting firm developing products designed for various machine tools. Gaining expertise over the decade it developed CNC Polygon Turning Machines & Special-purpose Machines, that cater to the needs of various segments of the manufacturing industry. It's our great honor to provide high-quality products to our customers.



CNC Polygon Turning Machine 2A



Polygon-2A



Polygon-2A with tail stock

Brisk CNC Polygon Turning Machines are rigid in construction and high precision to provide a wide variety of machining needs. Wide cutting applies to even number polygon cutting (Flat, square, hexagon) Eccentric cutting, radius milling, taper profiling cutting, face slotting, diamond profile cutting & T nuts.

Specifications		Unit	Polygon 2A	Polygon 2A with tailstock
CNC	Computer Numerical control	Type	Fanuc / Mitsubishi / Siemens	
Capacity	Max. Milling diameter	mm	110	
	Max. Milling Length	mm	100	200
	Draw tube Bore	mm	42 (Optional 62)	
Spindle	Max. speed	rpm	Work: 400 Tool : 800	
	Spindle Nose	type	A2-6	
	Spindle motor	kw/hp	2.2/3	3.7/5
Chuck	Collet Chuck	mm	A-42 (Optional A-60)	
Guide ways	X & Z Axes	type	Box Guideways	
Axes Stroke	X axis stroke	mm	120	130
	Z axis stroke	mm	130	220
Rapid Traverse rate	X & Z Axes	m/min	15	
Tool Head	No. Of Tool (Cartridge)	No.	3	
	Cutter	Type	Brisk Tech Polygon cutter	
Tailstock	Quill Base Travel	mm	-	200
	Quill Taper	-	-	MT-4
Motors	Servo motor, X axis	kw/nm	1.2 /8	
	Servo motor, Z axis	kw/nm	1.2 /8	
	Hydraulic pump	hp/l	1/40	
	Lubrication pump	hp/l	0.09/3	
Machine Dim. Apx.	L x W x H	mm	1890x1500x1550	2000x1500x1550
Machine Weight		tonne.	2.5	3

(Specifications are subject to change without further notice.)



CNC Polygon Turning Machine - 5A & 6A



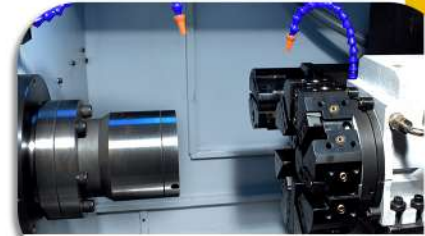
Polygon 5A & 6A is suitable for Pinion gear teeth chamfering process, Ratchet cutting, Spline cutting & Gear cutting.

Specifications		Unit	Polygon 5A	Polygon 6A
CNC	Computer Numerical control	Type	Fanuc / Mitsubishi	
Capacity	Max. Milling diameter	mm	60	80
	Max. Milling Length	mm	50	200
	Draw tube Bore	mm	42 (Optional 60)	
Spindle	Max. speed	rpm	Work: 100 Tool: 2000	
	Spindle Nose	type	A2-6	
	Spindle motor	kw/hp	3.5/5.5	
Chuck	Collet Chuck	mm	A-42 (Optional A-60)	
Guide ways	X & Z Axes	type	Box Guideways (Optional L.M Roller Guideways)	
Axes Stroke	X axis stroke	mm	130	
	Y axis stroke	mm	100	
	Z axis stroke	mm	200	
	B axis stroke (Indexing)	mm	45°	
Rapid Traverse rate	X & Z Axes	m/min	15	
Tool Head	No. Of Tool (Cartridge)	No.	1	
	Cutter	Type	Brisk Tech Polygon cutter	
	Tool Tilting	Angle	Manual Tilting	Rotary Table
Tailstock	Quill Base Travel	mm	-	200
Motors	Quill Taper	-	-	MT-4
	Servo motor, X axis	kw/nm	1.2/7	
	Servo motor, Y axis	kw/nm	1.2/7	
	Servo motor, Z axis	kw/nm	2.2/12	
	Servo motor, B axis (Indexing)	kw/nm	2.2/12	
	Live Tool Spindle	kw/nm	2.2/12	
	Hydraulic pump	hp/l	1/40	
	Lubrication pump	hp/l	0.09/3	
Machine Dim. Apx.	L x W x H	mm	1890x1500x1550	2000x1500x1550
Machine Weight		tonne.	2.5	3

(Specifications are subject to change without further notice.)



CNC Combo Polygon Lathe



A CNC Combo polygon lathe machine is a unique integration of a CNC Polygon machine with basic CNC lathe operation. Turning, centring, Grooving, Drilling, tapping & polygon Milling cutting are carried out at the same Machine.

We build two different model as follows

- ▶ CNC flat bed Combo polygon lathe machine with tailstock
- ▶ CNC Slant bed Combo polygon Lathe Machine (60 Degree inclination)

	Specifications	Unit	COMBO Polygon Lathe
NC System	Computer Numerical control	make	Fanuc / Mitsubishi / Siemenes
Capacity	Max. Turning Length	mm	100
	Max Hex Milling Length	mm	60
	Draw tube Bore	mm	42 (Optional 62)
Spindle	Max. speed	rpm	2500
	Spindle Nose	type	A2-6
	Spindle motor	kw/hp	Fanuc - 5.5/7.5 (Optional 7.5/11) Mitsubishi - 5.5/7.5 (Optional 7.5/11)
Chuck	Collet type	mm	A-42 (Optional A-60)
	Jaws Type	mm	Dia-160 (Optional 200)
Guide ways	X & Z Axes	type	Roller Guideways / Box Guideways
Axes Stroke	X axis stroke	mm	150
	Z axis stroke	mm	220
Rapid Traverse rate	X & Z Axes	m/min	20
Tool	Tool Size	mm	20*20
Turrent	8 Station Bi-directional	Model	BTP 63
Motors	Live Tool Spindle	kw/nm	Fanuc - 3/22 Mitsubishi - 3/20
	Servo motor X Axis	kw/nm	Fanuc - 1/8 Mitsubishi - 2.2/12
	Servo motor Z axis	kw/nm	Fanuc - 1/8 Mitsubishi - 1.2 / 7
	Hydraulic Pump	hp/l	1/40
	Lubrication Pump	hp/l	0.09/3
	Coolant Pump	ltr	120
Machine Dimension.	L x W x H	mm	2150x1900x2000
Machine Weight		tonne.	3

(Specifications are subject to change without further notice.)

CNC Double Ended Pipe Boring Machine (For Idlers)



Brisk CNC Double-Ended pipe boring machine also known as CNC Double-Ended Horizontal idler pipe Boring Machine designed for High precision outcome of the components. In this machine, Idler Pipe Boring, Facing, ID chamfer, and OD chamfer can be done in a single setup in a cycle at both the End of the Pipe.

Specifications	Unit	Modules					
		BTEL-900	BTEL-1200	BTEL-1600	BTEL-2200	BTEL-2500	
CNC	Computer Numerical control	Type	Fanuc / Mitsubishi / Siemens				
Capacity	Min. Length of Pipe	mm	200				
	Max. Length of Pipe	mm	900	1200	1600	2200	2500
	Min. Dia Pipe	mm	60				
	Max. Dia Pipe	mm	170 (Optional 220)				
Spindle	Max. Speed	rpm	800				
	Spindle Nose	Type	Plug				
	Spindle Motor	kw/hp	3.6/5 (Optional 7.5/10)				
Slide ways	Rapid Traverse	m/min	20				
	Guide ways	m/min	box type (Optional LM Roller Guideway)				
	Stroke	mm	160				
Pipe holding Fixture	Mechanism	Type	self centering clamp				
Tool	Boring, Facing ID/OD Chamber	Make	Brisk Tech				
Motors	Servo motor, X axis	kw/nm	1/8				
	Servo motor Z Axis	kw/nm	1/8				
	Hydraulic Pump	kw/hp	1.4/2				
	Lubrication Pump	kw	0.12				
	Coolant Pump	kw	0.1				
Machine Weight	Gross weight (approx.)	kgs	2500	3000	3500	4000	4500

(Specifications are subject to change without further notice.)

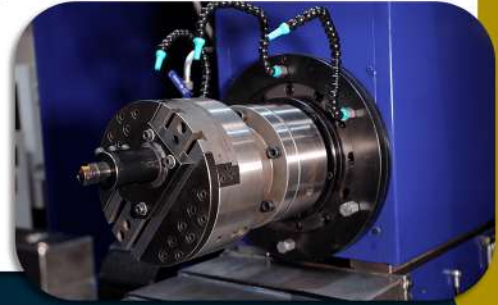
CNC Turn mill Center with Y-Axis (Special Purpose Machine)



Specifications		Unit	Rating
NC System	Computer numerical Control	Type	Fanuc / Mitsubishi / Siemenes
Capacity	Max. Job Turning diameter	mm	110
	Min. Job Length	mm	900
	Max. Job Length	mm	3000
	Swing Over bed	mm	400
Spindle	Spindle Taper		A2-8
	Live tool spindle taper		BT 40
Chuck Job Holding Capacity	3 jaw chuck -Retractable type	mm	OD-250
		mm	100
Guide ways	Long Slide – RH / X & Z Axes		Box /Roller
Axes Stroke	X1/ X2 axis Turret Slide & Milling Spindle Slide)	mm	300
	Y-Axis Motor (Cross Slide)	mm	± 60
	Z1 Axis Motor (Sadle)	mm	4000
	Z2 Axis Motor (Sub Spindle Slide)	mm	2200
	Z3 Axis Motor(Servo Tailstock)	mm	1200
Rapid Traverse rate	X & Z Axes	m/min	15
Turret	No. Of station	No	8
	Model : BTP80		BTP 80
	Max. Boring bar dia - BTH	Ø mm	40
	OD turning tool size	Ø mm	25X25
Motors	Servo motor with break X1/X2	KW/N-M	1.2 /8
	Servo Motor Y-longslide (Cross Slide)	KW/N-M	1.2 /8
	Servo Motor Z1/longslide (Sadle)	KW/N-M	2.2/12
	Servo Motor Z2/longslide (Sub Spindle Slide)	KW/N-M	3/22
	Servo Motor Z3/longslide (Servo Tailstock)	KW/N-M	1.2/8
	Live tool Servo motor	KW/N-M	3/22
	Spindle motor	Kw/Hp	5/7.5
	Hydraulic power pack	Hp/L	2/100
	Lubrication unit	Hp/L	0.09/3
Machine Dim.	L x W x H	Mtr	8 x 2 x 3
Machine Weight		Tonne	15 (Aprx)

(Specifications are subject to change without further notice.)

CNC End Machining Centre



This machine is suitable for Tractor Manufacturing and Conveyor manufacturing Applications.

End Cutting operations are as follows

- Rotary triller: facing, ID/OD chamfer, Turning, threading
- Idler Conveyor pipe- Boring, facing, ID /OD Chamfer

Specifications		Unit	End Working Center
CNC	Computer numerical Control	Type	Fanuc / Mitsubishi / Siemenes
Capacity	Min-Max rotor tube Dia	mm	70-220
	Min-Max Working Length	mm	700-3000
	Min Flange to Flange distance	mm	103
	Max Bore Depth	mm	150
	Max Facing Dia	mm	220
	Max Depth of Cut	mm	1.5
Spindle	Max. Speed	rpm	800
	Spindle Motor	hp	10
Guide ways	Long Slide & Work head slide	type	Box Guideways
Rapid Traverse rate	X & Z axes	m/min	15
Tool	Face Turning, Boring heads	type	Brisk Tech
Motors	Servo motor for slide movement (Both Side)	kw/nm	1.2 /8
	Servo motor Tool movement (Both Side)	kw/nm	1.2 /8
	Coolant Pump	hp/ltr	0.25/500
	Lubrication Pump	hp/ltr	0.09/3
Machine Dimension	L x W x H	mm	8000x2500x2500
Machine Weight	Gross weight	tonne.	8

(Specifications are subject to change without further notice.)

Gun Drilling Machine



Specifications		Unit	Ratings
CNC	Computer Numerical control	Type	Fanuc / Mitsubishi / Siemenes
Capacity	Max. Job Turning diameter	mm	60
	Max. Component Length accommodation	mm	550
	Min. Component Length accommodation	mm	250
Spindle	Max. speed (variable)	rpm	3000-6000
	Spindle Nose - Through coolant system		Plug type
	Spindle motor	Kw/Hp	3.7/5
Stright Drill head unit	Axis stroke	mm	350
	Drill size	mm	3.5
	Drill depth	mm	55
	Drill type		Gun drill
	Guide ways		LM rails and blocks
Cross Drill head unit	Axis stroke	mm	225
	Drill size	mm	3.5
	Drill depth	mm	6
	Drill type		Gun drill
	Guideways		LM rails and blocks
Motors	Servo motor -X	Kw/Nm	1.2 /7
	Servo Motor -Z	Kw/Nm	1.2/7
	Hydraulic pump	Hp/Lpm	3/20
	Coolant tank capacity	L	270
	Lubrication pump	Hp/L	0.09/3

(Specifications are subject to change without further notice.)

Our Valuable Clients



Examples Of Polygon Contouring



HEXAGON



SINGLE FLAT



FLAT



DOUBLE SLOT



DIMOND SHAPE



TRIANGLE



PENTAGON



OCTOGON



SQUARE



RECTANGLE



TAPER MILL



RACHET



RADIUS MILLING



MULTI SLOT



TANG MILLING



TEETH CUTTING



SINGLE SLOT



COUPLING



MIDDLE SQUARE



SPLINE CUTTING

Save machining time upto 80% by using
Polygon turning machine / Combo polygon lathe



Contact Us

BRISKTECH ENGINEERS

 Shed No. C-28, 2nd Main Road, 2nd Stage,
Peenya Industrial Area, Bengaluru - 560058

 www.brisktechengineers.com

 info@brisktechengineers.com

 +91 9448479855, +91 7892743816