

# FLEXIBILITY AND PRECISION FURTHER IMPROVED

GEDEE WEILER

## FLEX TURN Neo & FLEX TURN Neo Twin

A versatile machine with a rigid base and a flat bed with T Slot base which can accommodate Linear Tools renders the machine highly productive. As the name suggests, machine can be offered with Linear Tools, Turret, Customized Live Tool Unit for Axial drilling/ milling operations and dedicated automation for specific parts.

### FLEX TURN-NEO TWIN

With Gantry



### FLEX TURN-NEO

With Robo



#### DOUBLE THE PRODUCTIVITY. REDUCED MANPOWER.

CASE STUDY

Component Name: Engine Valve

Material : SUH 11 | Hardness: 42 HRC  
Operations : Facing, OD Turning and Rear chamfering



Approximate saving in cost per piece **12%**

DESCRIPTION	Flexturn Single Spindle Machine with Automation	Flexturn Twin Spindle Machine with Servo Gantry Loader
Number of Machines	2	1
Actual cycle time	24 sec per component	14 sec per component

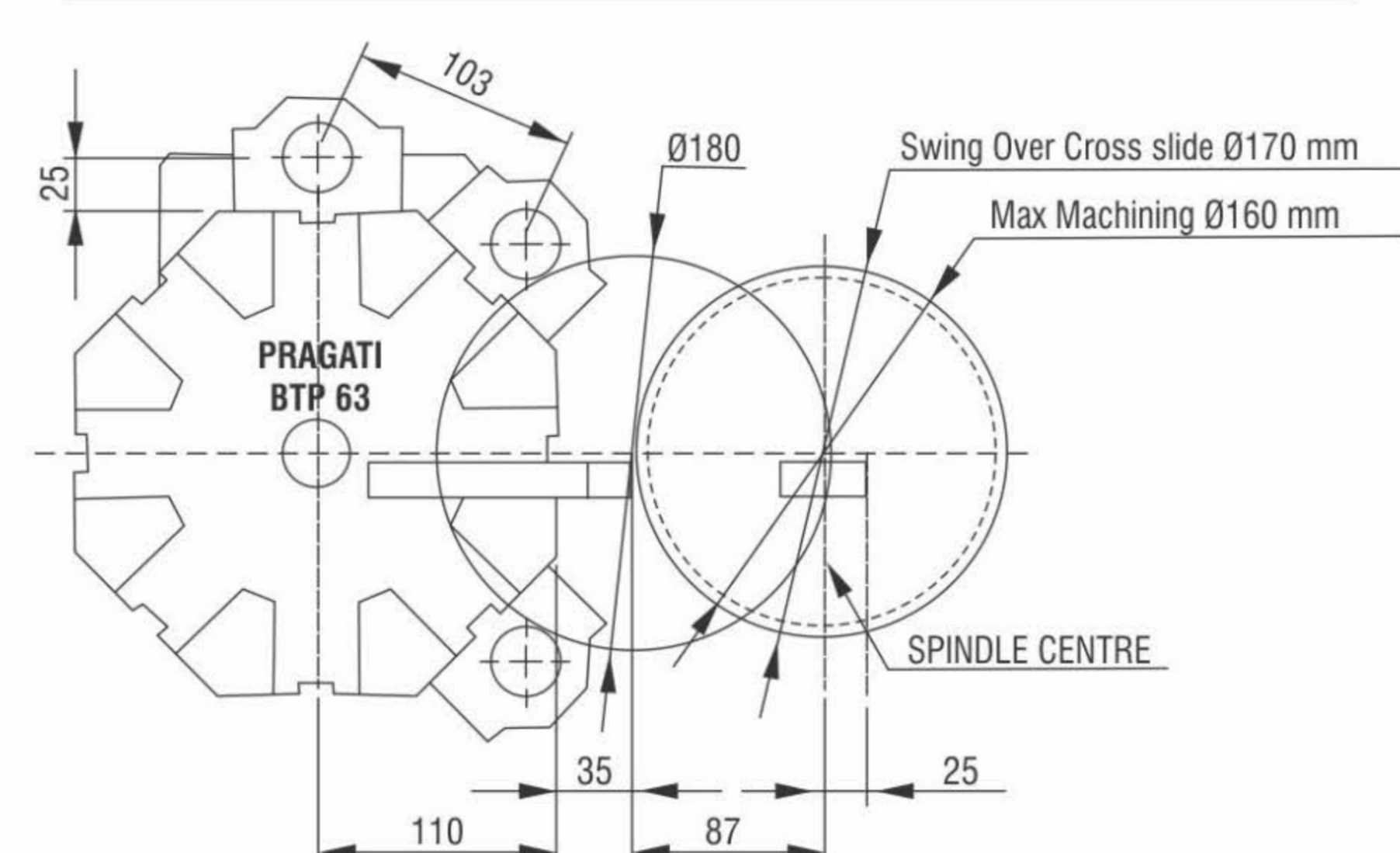
Note: Results may vary depending upon components, operations required etc. Automation with Robots for component loading/ unloading is possible optionally.

#### GDW LIVE TOOL UNITS



A customised Live Tool Unit driven by a servo motor which can accommodate one or two spindles based on component requirements for Axial Drilling/ Tapping or Milling operation (Max collet size ER 25 – in case of single spindle and Er 20 in case of two spindles) is available optionally coupled with C Axis (Indexing Axis or continuous rotary Axis) which greatly improves productivity by reducing throughput time and also improves accuracies as component is finished in single set up.

#### TOOL INTERFERENCE DIAGRAM



Flexible...

Precise...

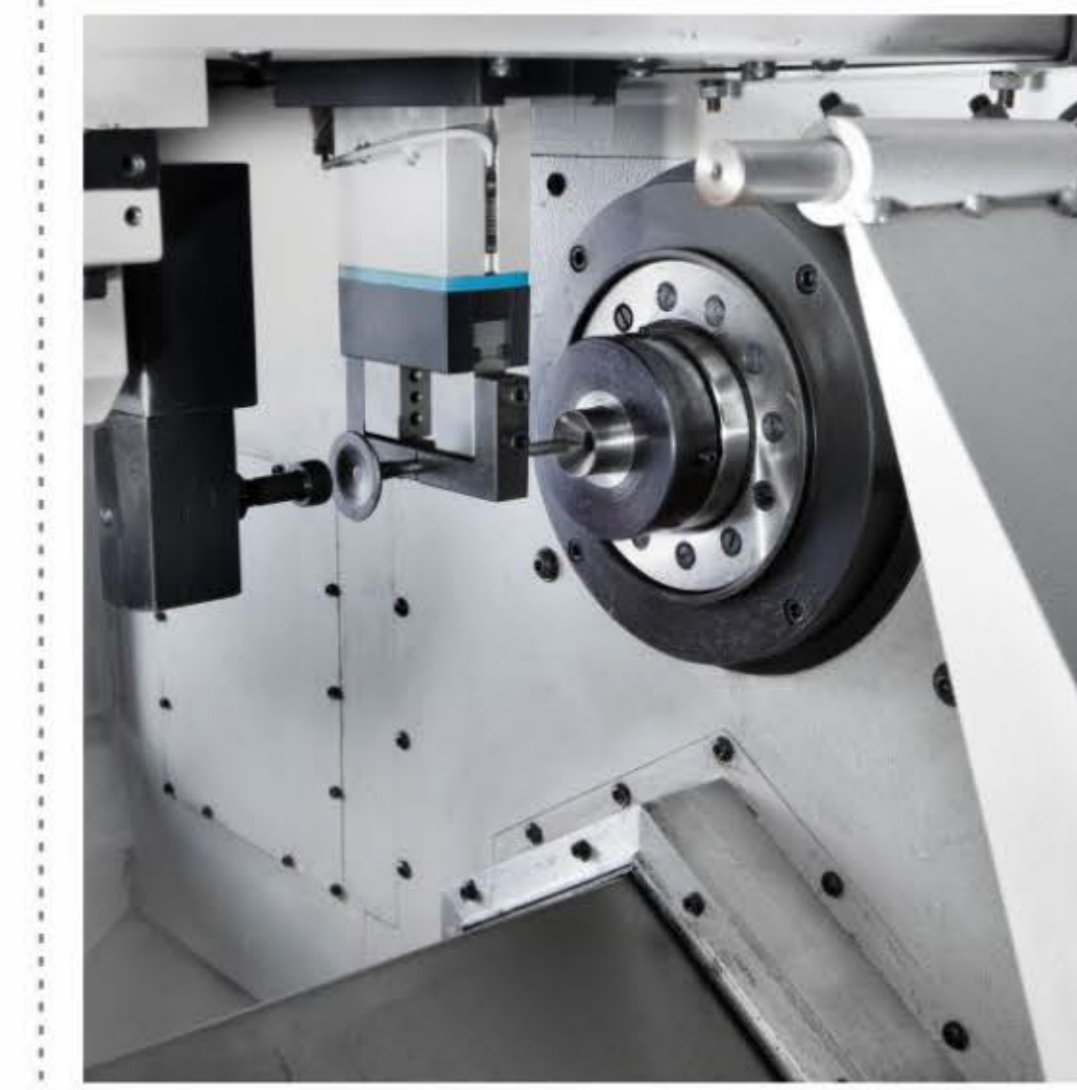
Productive...

#### VARIANTS



A wide range of configurations are available to cater to customer needs like machine with linear tooling and/or turrets, live tool units, wide choice of spindles (single & twin) from A2-4 (Dia 135 chuck) to A2-6 (Dia 200 chuck) and choice of controllers

#### SPINDLE



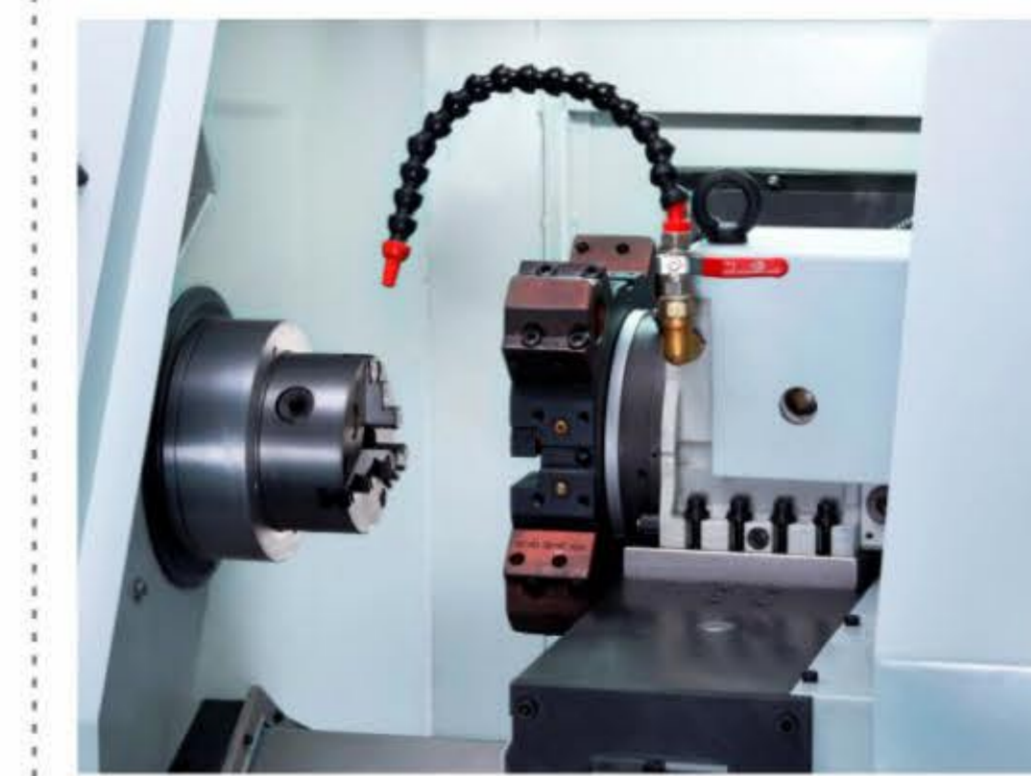
Our spindles known for their legendary precision (run out < 0.003mm) are housed in a specially designed circular head stock without thermal distortion and expansion fitted with precision angular contact ball bearings and roller bearings that enable take up high axial and radial loads.

#### AUTOMATION



Our proven design of Captive Automation (Pneumatic / Hydraulic) are serving the customers for long time in mass production applications. Servo Gantry Loaders and Robotic Automation are now available as per customer requirements.

#### TURRET



Variety of turrets are available like Pragati BTP63 / 80, live tool turrets of 8 station of Indian or imported makes to suit their needs.

#### SPECIAL ACCESSORIES



Our rich experience in offering special work holding devices like Hainbuch collect attachments, Angular tool heads, Hydro grip / through coolant multi jet tool holders etc. makes the machine flexible to suit the customer needs.



PARTS CATCHER

BAR FEEDER



Our special accessories like bar feeder, bar puller, parts catcher, parts collection tray, high pressure coolant system etc. render the machine more versatile.

#### "FLEXTURN-Neo TWIN " TECHNICAL SPECIFICATIONS

DESCRIPTION	UNITS	FT-25	FT-32	FT-42	FT-51	
CAPACITY	Swing over ("Z" Axis cover) dia	mm	380			
	Swing over cross slide cover -dia	mm	120			
	Chuck size - dia	mm	135	165	200	
SPINDLE - 1 (MAIN)	Spindle speed	rpm	50-4000			
	Spindle nose DIN 55026	type	A2-4	A2-5	A2-5LB	A2-6
	Spindle through bore	mm	38	42	58	63
	Optimum turning dia	mm	100	120	120	120
	Max bar capacity dia	mm	25*	32*	42*	51*
	Chuck size - dia	mm	135	165	165	200
SPINDLE - 2 (SUB)	Spindle speed	rpm	50-4000			
	Spindle nose DIN 55026	type	A2-4	A2-5	A2-5LB	A2-6
	Spindle through bore	mm	38	42	58	63
	Optimum turning dia	mm	100	120	120	120
	Max bar capacity dia	mm	25*	32*	42*	42*
	Chuck size - dia	mm	135	165	165	200
TRAVEL	X axis travel	mm	200			
	Z axis travel (without chuck)	mm	600			
	Rapid traverse x axis	mts/min	20			
	Rapid traverse z axis	mts/min	25			
FEED RATE	Feed rate	mm/min	6000			
	Tooling system	Type	Linear Tooling			
TOOLING	Tool shank size	mm	20 x 20			
	Boring bar size Dia	mm	25			
	Floor space (L x W x H)	mm	2850 x 2600 x 2000			
MACHINE SIZE	Machine weight (approx)	kg	3250			
	CNC CONTROL	type	8080 PPU161 / 8280 / Di TF / E-80			
MOTOR POWER	SPINDLE -1 motor rated power (Continuous rating)	kw	V1-3.7KW (Siemens / Fanuc / Mitsubishi) V2-5.5KW (Siemens / Fanuc / Mitsubishi) V3-7.5KW (Fanuc/Mitsubishi) 7KW Siemens			
	SPINDLE -2 motor rated power (Continuous rating)	kw	V1-3.7KW (Siemens / Fanuc / Mitsubishi) V2-5.5KW (Siemens / Fanuc / Mitsubishi) V3-7.5KW (Fanuc / Mitsubishi) 7KW Siemens			

\* Max bar size vary with respect to draw bar bush thickness. NOTE : Due to continuous upgradation of our products, the specifications are subject to change without notice.

#### "FLEXTURN-Neo " TECHNICAL SPECIFICATIONS

DESCRIPTION	UNITS	FT-25	FT-32	FT-42	FT-51	
CAPACITY	Swing over ("Z" Axis cover) dia+B4-B31	mm	380			
	Swing over cross slide cover -Dia	mm	160			
	Optimum turning Dia	mm	100	140		
SPINDLE	Max bar capacity Dia	mm	25*	32*	42*	51*
	Chuck size - Dia	mm	135	165	200	
	Spindle speed	rpm	50-4000			
	Spindle nose DIN 55026	type	A2-4	A2-5	A2-5LB	A2-6
	Spindle through bore	mm	38	42	58	63
	X axis travel	mm	200			
TRAVEL	Z axis travel	mm	Short - 265mm (S) Long - 340mm (L)			
	Rapid traverse X axis	mts/min	20			
FEED RATE	Rapid traverse Z axis	mts/min	25			
	Feed rate	mm/min	6000			
TOOLING	Tooling System	type	Linear Tooling / Bi -directional Turret			
	No of tool positions of turret	No	8			
	Tool shank size (for both turret & linear tooling)	mm	20 x 20			
	Boring bar size of Turret (Dia)	mm	32			
MACHINE SIZE	Boring bar size of linear tooling (Dia)	mm	25			
	Floor space (L x W x H)	mm	1900 x 1800 x 1540			
	Machine weight (approx)	kg	1800			
CNC CONTROL	Siemens / Fanuc / Mitsubishi	type	8080 PPU161 / 8280 / Di TF / E-80			
MOTOR POWER	Spindle motor rated power (Continuous rating)	kw	V1-3.7KW (Siemens / Fanuc / Mitsubishi) V2-5.5KW (Siemens / Fanuc / Mitsubishi) V3-7.5KW (Fanuc / Mitsubishi) 7KW Siemens			

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#### STANDARD ACCESSORIES

- Hydraulic chuck and Closed cylinder
- One set of soft jaws
- Hydraulic Power pack
- Coolant supply equipment
- Centralized lubrication equipment
- Chip trolley
- Work light
- Foot Switch

#### OPTIONAL ACCESSORIES

- Set of Manuals or CD
- Set of mounting pads
- BTP 63 (in case of turret)
- Linear tool holder blocks (in case of linear tooling)
- 2 turning holder blocks
- 2 boring holder blocks
- Chip Conveyor
- Coolant Gun
- Panel air conditioner
- Overhead coolant hose
- 165 dia. (2 jaw) power chuck
- Bar Puller (Mechanical)
- Parts catcher / Tray
- Aden Lamp (Yellow/Red/Green)
- Air blast for chuck jaw cleaning
- Collet chuck
- Hollow clamping cylinder
- 8 station bi-directional sauter turret with live tools
- GDW live tool
- Multi boring tool holder
- Double axial holder

## FLEXIBLE. PRECISE. PRODUCTIVE

FLEXIBLE AND COMPACT CNC LATHES

LINEAR CNC LATHES



MAKE YOURSELF MORE COMPETITIVE WITH  
KELLER PROGRAMMING SOFTWARE & ARNO CUTTING TOOLS



Programming software, reduce your machining time without altering your existing setup of speed and feed (also on any existing machine).

Cutting tools. Improve your product quality and reduce production cost through enhanced tool life.

GEDEE WEILER

A CUT ABOVE THE REST

GEDEE WEILER PRIVATE LIMITED, Vellalore Road, Podanur P.O. Coimbatore - 641 023, Tamil Nadu, INDIA.  
EPABX: +91-422 2413908, 804 and 048 E-mail: sales@gdweiler.com Website: www.gdweiler.com



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