

"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			
SPINDLE - 1 (MAIN)	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
	Optimum turning dia	mm	100	120	120	120
	Max bar capacity dia	mm	25*	32*	42*	51*
SPINDLE - 2 (SUB)	Chuck size - dia	mm	135	165	165	200
	Spindle speed	rpm	50-4000		50-3000	
	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*
TRAVEL	X axis travel	mm	200			
	Z axis travel (without chuck)	mm	600			
FEED RATE	Rapid traverse x axis	mts/min	20			
	Rapid traverse z axis	mts/min	25			
	Feed rate	mm/min	6000			
TOOLING	Tooling system	Type	Linear Tooling			
	Tool shank Size	mm	20 x 20			
	Boring bar size Dia	mm	25			
MACHINE SIZE	Floor space (L x W x H)	mm	2850 x 2600 x 2000			
	Machine weight (approx)	kg	3250			
CNC CONTROL	Siemens/Fanuc/Mitsubishi	type	808D PPU161 / 828D / Oi 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)			
	SPINDLE -2 motor rated power (Continuous rating)	kw	V3-7.5KW (Fanuc / Mitsubishi) 7KW Siemens			
			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.

STANDARD ACCESSORIES	OPTIONAL ACCESSORIES
<ul style="list-style-type: none"> Hydraulic chuck and closed cylinder One set of soft jaws for each chuck Hydraulic power pack Coolant supply equipment Centralized lubrication equipment Work light Foot switch 	<ul style="list-style-type: none"> Set of Manuals Set of mounting pads Chip conveyor Linear tool holder blocks a) 4 turning holder blocks b) 4 boring holder blocks
	<ul style="list-style-type: none"> Coolant Gun Panel air conditioner Overhead coolant hose 165 dia. (2 jaw) power chuck Additional Turning and Boring tool holder Aden Lamp (Yellow/Red/Green) Air blast for chuck jaw cleaning Collect chuck Hollow clamping cylinder Multi boring tool holder Double axial holder

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.

"FLEXTURN-Neo TM" Technical Specification

DESCRIPTION		UNIT	FT-25	FT-32	FT-42	FT-51
CAPACITY	Swing over ("Z" Axis cover) dia	mm	350			
	swing over cross slide cover -dia	mm	150			
	Optimum turning dia	mm	150			
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
TRAVEL	Spindle through bore	mm	38	42	58	63
	X axis travel	mm	200			
FEED RATE	Z axis travel	mm	340			
	Rapid traverse x axis	mts/min	340			
TURRET	Rapid traverse z axis	mts/min	25			
	Feed rate	mm/min	6000			
MACHINE SIZE	Type		PRAGATI Live Tool			
	No of tool positions of turret	No	8			
	Tool shank	mm	20x20			
	Boring Bar Size	mm	32			
CNC CONTROLLER	Floor Space (LXWXH)	mm	1900X1800X1540			
	Machine Weight Approx	Kg	2000			
MOTOR POWER	Mitsubishi/ Fanuc	TYPE	E-80/ Oi-TF Plus			
MOTOR POWER	Spindle motor rated power (Continuous rating)	Kw	5.5 Kw (Mitsubishi/Oi-TF Plus)			

* 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.

STANDARD ACCESSORIES	OPTIONAL ACCESSORIES
<ul style="list-style-type: none"> Hydraulic chuck and open cylinder One set of soft jaws Hydraulic Power pack Coolant supply equipment Centralized lubrication equipment Chip trolley Work light Foot Switch 	<ul style="list-style-type: none"> Set of Manuals Set of mounting pads Aden Lamp (Yellow/Red/Green) 8 station bi-directional pragati turret with live tools Chip Conveyor Coolant Gun Panel air conditioner Overhead coolant hose 165 dia. (2 jaw) power chuck Collet chuck Air blast for chuck jaw cleaning 8 station bi-directional pragati turret GDW live tool Multi boring tool holder Double axial holder

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FLEXIBLE CNC LATHES

FLEX TURN - NEO TWIN

FLEX TURN - NEO TM

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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 TM



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

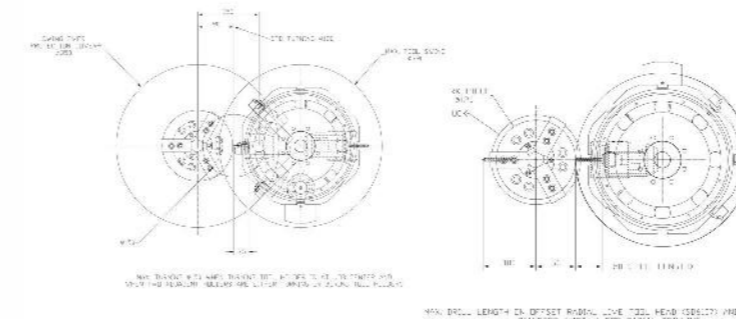
Note: Results may vary depending upon components, operations required etc. Automation with Robots for component loading/ unloading is possible optionally.

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.

FLEX TURN NEO TM TOOL INTERFERENCE DIAGRAM



Flexible...

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

Precise...

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.

Productive...

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.

