

# **LOGIC 195-4** UNIVERSAL FLATBED CNC LATHES



## **LOGIC SERIES FLAT BED CNC LATHES - YOUR BEST OPTION**

- Enhanced rigidity and robustness
- All stress relieved MEEHANITE certified casings.
- Oversized carriage hardened and super precision ground ways
- Constant hardness guide ways for permanent precision
- High precision preloaded ball screws
- High precision and high load capacity spindle
- 8 station bidirectional tool turret supplied standard
- VDI-20 tools of Slotted disk
- Automatic chuck CNC commanded supplied standard
- Automatic Tailstock supplied standard
- All around Machine enclosure and guards w/ safety locks
- FAGOR 8037 CNC Graphic display color LCD MMI
- Tech-in program
- Conversational programming package
- Energy Saving electric motors
- NR12 safety system. Second to none



## MACHINE MAIN SPECIFICATIONS

MACHINE MODEL	LOGIC 195			
Capacities				
Max Turing over the bed	440	mm	17,3	inch
Between centers Machine size A	1000	mm	39,4	inch
Max Turing cross slide	250	mm	9,8	inch
Cross slide travel	300	mm	11,8	inch
Tool square cross section	20	mm	0,8	inch
Bed				
Bed width	270	mm	10,6	inch
Bed height	320	mm	12,6	inch
Headstock				
Spindle nose			A2-6 ASA	
Spindle shaft passage diameter	52	mm	2,0	inch
Nose taper			01:20	
Nose taper sleeve			MT4	
Continuous Variable Speed			21-3500 rpm	
Feeds				
Z axis Longitudinal rapid feed	15000	mm/min	591	ipm
X axis cross rapid feed	15000	mm/min	591	ipm
Tailstock				
Quill diameter	60	mm	2,4	inch
Quill stroke	80	mm	3,1	inch
Quill taper			MT4	
Motors				
Headstock Motor	7,5	kw	10,0	hp
Coolant Pump motor	0,24	kw	0,3	hp
Machine Sizes and Weight				
Machine width	1260	mm	49,6	inch
Machine Length ( 1000 mm)	2800	mm	110,2	inch
Approx. weight	2000	kg	4400	lbs

Above specifications are subject to be modified without prior notice

### MAIN DESIGN AND CONSTRUCTION FEATURES

- ◆ All structural parts are finite element analysis design in high tensile strength cast DIN: GG25 and GG30 iron thermally stress relieved with thick walls and strong ribs structure.
- ◆ Hardened over 45HRC on all its length to avoid accumulated wear spots ton all its length to avoid accumulated wear spots t, and ground slide ways with anti-friction Turcite-B lining on mating surfaces for superb dynamic performance with dampening properties
- ◆ X and Z feed axis on high precision ground ball screws , preload zero backlash nuts and high torque servomotors for extreme accurate dynamic response
- ◆ Headstock with AC spindle motor with drive for variable speeds with wider ranges in 2 steps, or AC Servo Spindle digital driver perfect rotation synchronization for high precision threading and rigid tapping and C axis configuration
- ◆ Large spindle bore with good bar capacity for operation with bar loaders.
- ◆ Manual positioning heavy capacity tailstock with pneumatic advance and retract quill commanded by CNC and foot pedal
- ◆ Standard Complete Enclosed machine guards w/ interlocked doors

- ◆ FAGOR 8037 CNC Graphic display color LCD MMI .
- ◆ Tech-in programming package , conversational programming
- ◆ Single path control for X and Z axis linear and circular interpolation, Fast rapid traverse rates,
- ◆ I.D., O.D., taper, circular, end-face, slot, chamfer cutting,
- ◆ Metric & inch threads cutting and real rigid tapping
- ◆ Eight station bidirectional tool turret with slotted disc with one set of tool holder fully commanded and controlled by the CNC
- ◆ Standard automatic three self-centering jaws chuck
- ◆ Open/close command by CNC and foot pedal and mounting flange
- ◆ Automatic slide way and ballscrew lubrication system
- ◆ Ergonomic design with rotary sliding control panel for optimum convenience and efficiency fast, easy to use, operator friendly
- ◆ Electric system IP54 protection safety interlocking , all high efficiency electric motors
- ◆ Electric cabinet automatic temperature control
- ◆ Complete machine safety system interlocking guards and CNC supervision

### OPTIONAL FEATURES & ACCESSORIES

- ◆ Special chucks , collet chucks and drive plates according customer's demands
- ◆ Bar feeders options turnkey Integrated
- ◆ Optional FANUC 0i-TF plus w/ Manual Guide i Options of Conversational programming.
- ◆ Steady rest, and Follow up rests
- ◆ Rotating center on the tailstock
- ◆ AC Servo motor for the spindle with digital driver.
- ◆ Angular feed axis (C axis) configured on the headstock with AC Servo spindle motor
- ◆ Live and Dead tool turret for turning and milling operations and turret with Y feed axis ( vertical) for turning and 3D milling operations
- ◆ Chip conveyor coolant system



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THESE MACHINES ARE MANUFACTURED ACCORDING

ISO230-1/2; VDI-DGC-3441; ISO13041; ISO2372 ; NBR15; DIN66025;NBR10;NBR12