

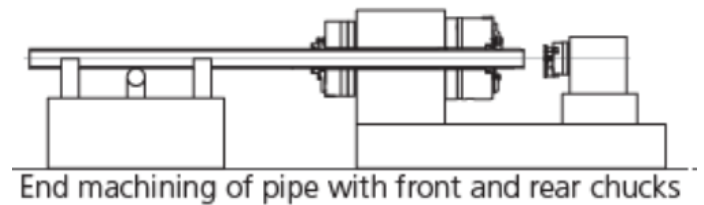
LOGIC 500 OCL320

UNIVERSAL FLATBED CNC LATHES

Big Bore Spindle

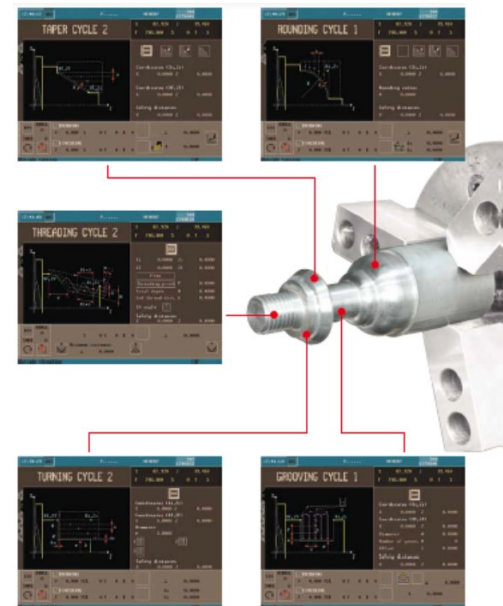


- The **LOGIC-OCL Series** lathes are very perfect machines for the oil and gas industry
- Modular design concept for extremely high flexibility and large end machining of the pipes thru the center of the arbor with front and rear chucks.



ADVANCED AND RELIABLE FEATURES ARE BASIC STANDARD

- 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 60 tool size
- High load capacity tailstock
- Energy Saving electric motors
- NR12 safety system. Second to none
- Enhanced CNC is Standard
- FAGOR 8055 CNC
- Advanced Graphic display color LCD MMI
- Tech-in program
- ICON Conversational programming package
- Optional expandable feed axis
 - Linear feed axis such as Y vertical for Y axis turret option
 - C axis rotary feed axis on the spindle
- Milling Functions



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
- ◆ Extra Large spindle bore large end machining of the pipes thru the center of the arbor with front and rear chucks, both supplied standard.
- ◆ Large capacity manual tailstock with possible pneumatic or hydraulic quill advance and retraction and live centers
- ◆ Enhanced CNC is Standard FAGOR 8055 CNC
- ◆ Advanced Graphic display color LCD MMI
- ◆ Tech-in program & ICON Conversational programming package
- ◆ 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
- ◆ Basic standard 8 stations CNC automatic tool turret with VDI 60 tool disk.
- ◆ Automatic slide way and ballscrew lubrication system
- ◆ Standard Complete Enclosed machine guards to maintain a clean work environment
- ◆ Ergonomic design with rotary sliding control panel for optimum convenience and efficiency fast, easy to use, operator friendly
- ◆ Coolant system with chip tray in the enclosure
- ◆ Electric system IP54 protection safety interlocking , all high efficiency electric motors
- ◆ Complete machine safety system interlocking guards and CNC supervision

MACHINE MAIN SPECIFICATIONS

Machine Model	LOGIC 500 OCL320			
Max Turing over the bed	1000	mm	39,4	inch
Between centers Machine size A	1050	mm	41,3	inch
Between centers Machine size B	2050	mm	80,7	inch
Between centers Machine size C	3050	mm	120,1	inch
Between centers Machine size D	4050	mm	159,4	inch
Turning between chuck and center Machine size A	1020	mm	40,2	inch
Turning between chuck and center Machine size B	2020	mm	79,5	inch
Turning between chuck and center Machine size C	3020	mm	118,9	inch
Turning between chuck and center Machine size D	4020	mm	158,3	inch
Turning length with quick change tools Machine size A	920	mm	36,2	inch
Turning length with quick change tools Machine size B	1920	mm	75,6	inch
Turning length with quick change tools Machine size C	2920	mm	115,0	inch
Turning length with quick change tools Machine size D	3920	mm	154,3	inch
Turning length with tool turret Machine size A	805	mm	31,7	inch
Turning length with tool turret Machine size B	1805	mm	71,1	inch
Turning length with tool turret Machine size C	2805	mm	110,4	inch
Turning length with tool turret Machine size D	3805	mm	149,8	inch
Max Turing cross slide	650	mm	25,6	inch
Cross slide travel	500	mm	19,7	inch
Tool square cross section Std	40	mm	1,6	inch
Tool square cross section quick change	32	mm	1,3	inch
Bed width			520	
Bed height	450	mm	17,7	inch
Spindle nose			A 1-20 ASA	
Spindle shaft passage diameter			320 mm / 12,6"	
Nose taper			01:20	
Nose taper sleeve			MT6	
Continuous Variable Speed			4-860 rpm	
Z axis Longitudinal rapid feed	10000	mm/min	394	ipm
X axis cross rapid feed	10000	mm/min	394	ipm
Quill diameter	170	mm	6,7	inch
Quill stroke	280	mm	11,0	inch
Quill taper			MT6	
Headstock Motor	30	kw	40	hp
Coolant Pump motor	0,37	kw	0,5	hp
Machine width	2300	mm	90,6	inch
Machine Length (1000 mm)	3700	mm	145,7	inch
Machine Length (2000 mm)	5000	mm	196,9	inch
Machine Length (3000 mm)	6500	mm	255,9	inch
Machine Length (4000 mm)	7600	mm	299,2	inch
Approx. weight machine size A	7800	kg	17160	lbs
Approx. weight machine size B	9100	kg	20020	lbs
Approx. weight machine size C	11000	kg	24200	lbs
Approx. weight machine size D	12270	kg	26994	lbs

Above specifications are subject to be modified without prior notice

THIS MACHINE IS MANUFACTURED ACCORDING

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



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SOME OPTIONAL FEATURES & ACCESSORIES

- ◆ Hydraulic and Pneumatic self-centering chucks , collet chucks and drive plates .
- ◆ Tailstock with hydraulic or pneumatic quill
- ◆ 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