



Big Bore ENC LATHE

*Extra Heavy Duty, Large Swing,
BIG BORE, Precision built to meet
your turning needs....*



JAGUAR

ENC LATHES CE

High Productivity Quality and Profitability

True Value through Big Rugged Construction

THE SIMPLICITY OF A CONVENTIONAL LATHE THE PRECISION AND QUALITY OF A CNC

Rigid Bed Construction

- The rigid construction bed are induction hardened over RC 50° and precision ground provides heavy duty turning and fine finishing at high accuracy.

Precision Spindle

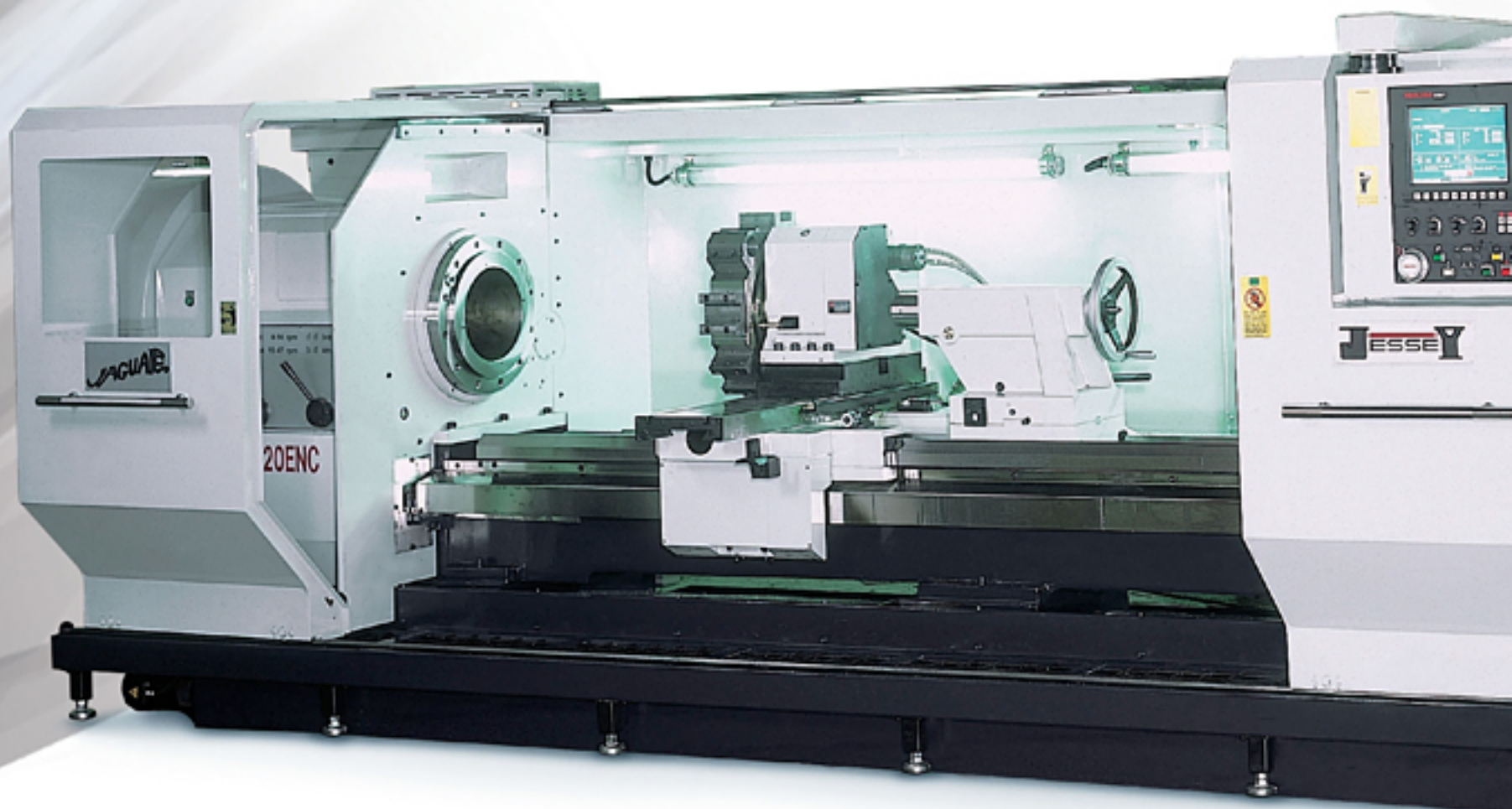
- The main spindle is supported by selected and preloaded super precision bearings to ensure high accuracy through full speed ranges.

Low Noise Running

- The main spindle, shafts and gears in the headstock are made by high grade alloy steel, are hardened and precision ground for high speed running at lower noise level.

Automatic Lubrication Pump

- The automatic lubrication pump equipped on apron provides all slide-ways and two axes ballscrews lubricants continually.



Big Capacity, and Lifetime Accuracy

Precision Ball Screws

- The hardened and precision ground ballscrews for X & Z axes are mounted on high precision bearings to enable sensitive movement.

Electronical Handwheels Front

- Both X & Z axes equipped with individual electronical handwheels on control panel for manual operation as conventional lathes.

Choice of Control

- The ANILAM 4200T or FAGOR 8055i/A CNC COMPACT controller be selected as standard equipment, FANUC Oi-TC or SIEMENS 810D controller may selected as optional.

Large Spindle Bore

- Available from 105mm, 155mm, 250mm, 305mm and 380mm.

Double Chuck Adaptor

- To mount extra chuck in rear of spindle to get better support for long work-piece.
(*Adaptor for rear chuck is optional)

Screw Type Chip Conveyors

- Screw type chip conveyors on both front and rear sides to easy remove chips

Easy Maintenance & Adjustment

- A designed openable door on rear splash guard provide for X-axis and home switches maintenance and adjustment easily.



3280 ENC



Spindle Driven by Inverter Motor.

- The powerful inverter motor for main spindle are driven by YASKAWA VS-616 G7 vector control and multi-function all-digital type Inverter.
- Both X & Z axes are equipped with selected controller whole package AC servo motors with its own power supply and monodrives.

Accurate Position of Spindle Speed

- The EUCHNER automation sensor equipped on spindle speed changer to provide the exactly positions of speed range for spindle infinitely variable speed selection correctly.

Electronic Positional Stops

- Electronic positional stops in X & Z axes and tailstock to avoid any over travels. The modular input/output (I/O) card evidence all control system performance for maintenance and trouble shooting easily.



32160 ENC





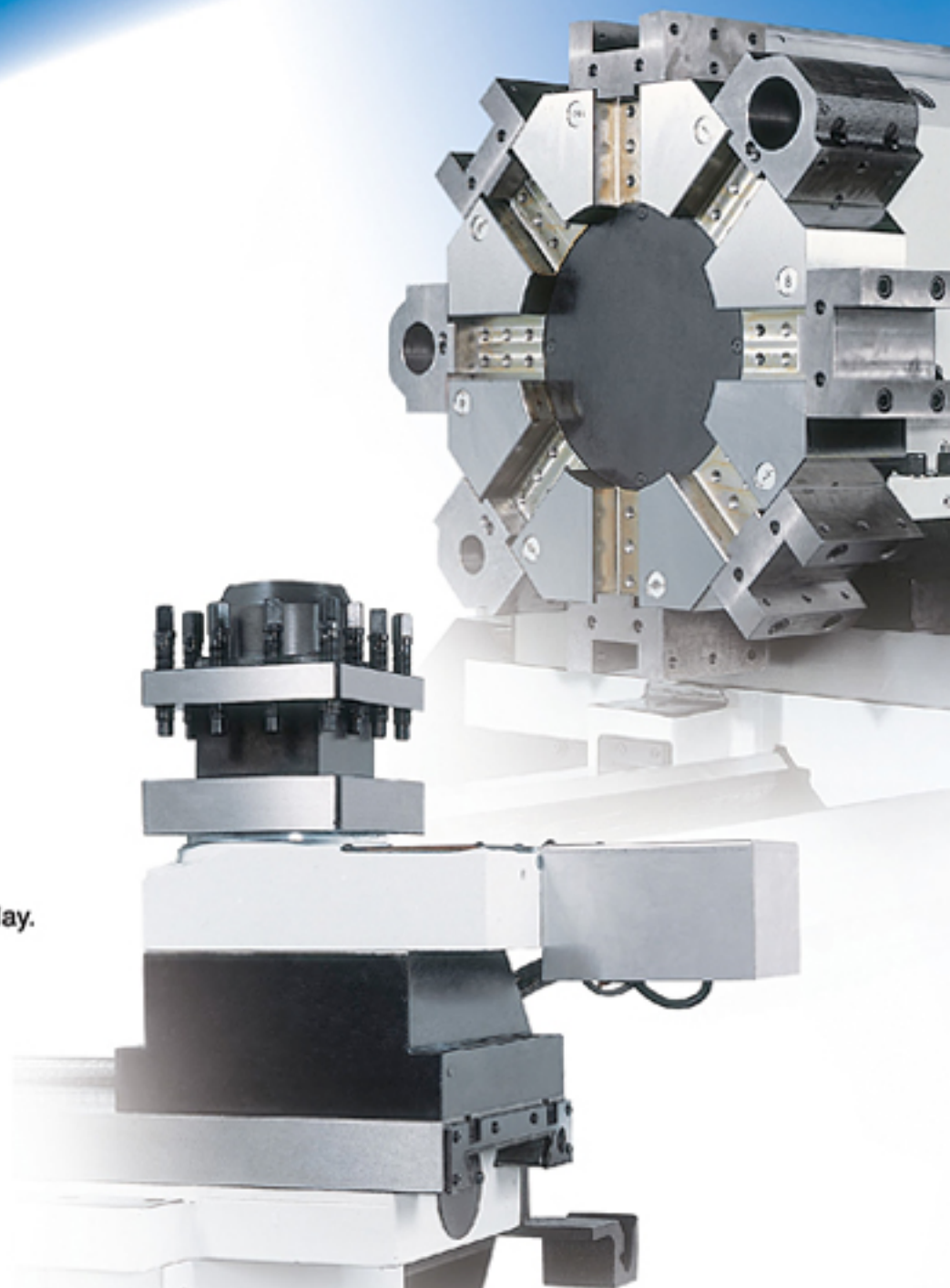
ANILAM 4200T

- With 14" color CRT.
- 12" TFT color Flat Panel.
- Overlay Alphanumeric keyboard & function keys and manual keypads.
- 1.44 MB Floppy disk & RS 232 port & Printer port.
- Canned cycles, conversational G-code.
- Built-in PLC.
- 20 inputs/12 outputs.
- Automatic tool calibration with 99 tool offsets.
- Graphic simulation of tool path, rapid and feed move display.
- ISO editor and program upload/download.
- Complete set with AC Servo System.



FAGOR 8055i/A

- With 11" color LCD and full Alphanumeric keyboard
- User part program with comments
- With user defined cycles (Macros) & profile editor
- Cycles editing by displaying icons with helping message
- The screen shows the form of the selected tool
- 2 levels Taper cycles, 4 levels Grooving cycles, 4 levels Threading cycles, 5 Drilling + Tapping cycles, Positioning cycles, 2 Profiling cycles, etc...
- Complete set with Digital SERCOS AC Servo System



STANDARD EQUIPMENT:

- Control unit :
ANILAM 4200T control system & YASKAWA AC servo system
FAGOR 8055i/A control system & AC servo system
- Electric automatic 4-way toolpost
- Spindle encoder
- Cutting fluid coolant system
- Full length rear splash guard
- Front chuck & chip safety guard
- Working lamp
- Screw type chip conveyor
- RS-232 port
- Leveling blocks
- Service tools & toolbox
- Operation, programming & instruction manuals

OPTIONAL ACCESSORIES:

Control unit:

- FANUC 0i-TC/ SIEMENS 810D
- Spindle bore: 155mm(A2-11), 250mm(A2-15), 305mm(A2-20) or 380mm(A2-20)
- Steady rest
- Follow rest
- Electric 8-station automatic change turret (India Made)
- Hydraulic 8-station automatic change turret
- Hydraulic tailstock
- Chip conveyor w/cart
- Special function by consult

MACHINE SPECIFICATIONS

unit : mm

MODEL	3260/3280/32120/32160			4060/4080/40120/40160	
CAPACITY					
Swing over bed	800mm			1000mm	
Swing over cross slide	510mm			710mm	
Swing in gap	1100mm			1300mm	
Center height	400mm			500mm	
Distance between center	1500mm (60") 2000mm (80") 3000mm (120") 4000mm (160")				
HEADSTOCK					
Spindle bore	105mm	155mm	250mm	305mm	380mm
Spindle nose	A2-11	A2-11	A2-15	A2-20	A2-20
Spindle range	4				
Spindle speed (rpm)	1-range	18-130	18-130	13-95	12-85
	2-range	35-260	35-260	25-215	23-170
	3-range	85-550	85-550	60-400	55-300
	4-range	165-1400	165-1000	120-600	110-400
BALLSCREW					
Z axis ball screw	ø63 x P10				
X axis ball screw	ø40 x P5				
CARRIAGE					
Cross slide width	300mm				
Cross slide travel	550mm				
BED					
Bed width	550mm				
Z axis travel	1320/1820/2820/3820 mm				
TAILSTOCK					
Quill taper	MT6				
Quill diameter	105mm				
Quill travel	275mm				
ACCURACY					
Positioning accuracy	±0.01mm/300mm				
Repeatability accuracy	±0.005mm				
MOTOR					
Main spindle motor	30HP(22.5kw)---STD.			40HP(30kw)---OPT.	
Coolant pump	1/2HP				
General Information					
Machine weight	7000/7500/9000/10500 KGS				

• The above specifications subject to change without prior notice.

CONTROL SPECIFICATION

	FAGOR 8055/A	ANILAM 4200T	FANUC 0i-TC (w/Manual guide i)	SIEMENS 810D
X Axis Servo Motor	Fagor FXM53(11.9Nm)	1.8kw (Yaskawa SGMGH 20A)	Fanuc β is12 (11Nm)	Siemens 1FK7083 (16Nm)
Z Axis Servo Motor	Fagor FXM55 (17.3Nm)	2.9kw (Yaskawa SGMGH 30A)	Fanuc β is12 (20Nm)	Siemens 1FK7100 (18Nm)
Main Spindle Motor(OPT.)	30 (40) HP Inverter Motor (Fagor A150 Servo Motor)	30 (40) HP Inverter Motor	Fanuc α 22i Servo Motor (22/26Kw)	Siemens 1PH7137 Servo Motor (22/27.5Kw)

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