

JESSEY®

JAGUAR



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ENC Lathes

ENC LATHES

The extensive list of machine features includes:

- Automatic headstock speed change with three-range
- Superior headstock positive flow lubrication system with oil-cooler
- The rigid construction bed is with hardened and precision grinding
- Full enclosed and interlocked guarding
- Independent, sliding operator's console allow moving quickly/effortlessly aside



ENC LATHES

Tooling System

Quick Change Toolpost

	Type	Tool Shank	Boring Bar Dia	MT
15" / 18" ENC	JS2T	25mm	32mm	2
20" / 22" ENC	JS3T	32mm	40mm	3
26" / 30" ENC	JS3T	32mm	40mm	3
32" ENC	JS4T	32mm	50mm	4

Elec. 4-Way Toolpost

	Type	Tool Shank	Boring Bar Dia
15" / 18" ENC	SQTP-166	20mm	25mm
20" / 22" ENC	SQTP-190	25mm	40mm
26" / 30" / 32" ENC	SQTP-200	32mm	50mm

Elec. 8-Station Turret

	Type	No. of Station	Tool Shank	Boring Bar Dia	VDI-Tool Disc
15" / 18" ENC	BTP-63	8	20mm	32mm	30
20" / 22" ENC	BTP-80	8	25mm	40mm	40
26" / 30" / 32" ENC	BTP-100	8	32mm	50mm	50

Driven Tooling

PRAGATI Driven Tool Turret

Model	ENC-18"	ENC-22"	ENC-26"/30"/32"
TYPE	DTT-63H	DTT-80H	DTT-100H
No of Station	8	12	12
Toolholder Type	VDI20	VDI30	VDI40
Cutting Capacity			
Drilling (mm x mm/rev)	10 x 0.2	14 x 0.15	20 x 0.2
Tapping (mm x mm)	M8 x 1.25 / M12 x 1	M10 x 1.5 / M24 x 1	M16 x 2.0 / M24 x 1.5
Slot Milling (mm x mm x mm/min)	12 x 8 x 45	20 x 10 x 40	20 x 14 x 40

Electric Specification:

Model	FAGOR 8060FL	FANUC 0i-TF	Siemens 828D
15"/18" ENC			
X Axis Servo Motor	FKM22 (3.2Nm)	βis2(2Nm)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	βis8(7Nm)	1FK7062 (8.5Nm)
Main spindle motor	FS5-A075 (7.5/11Kw)	βi8 (7.5/11Kw)	1PH8105 (7Kw)
20"/22" ENC Series			
X Axis Servo Motor	FKM22 (3.2Nm)	βis2(2Nm)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	βis8(7Nm)	1FK7062 (8.5Nm)
Main spindle motor	FS5-A110 (11/15.5Kw)	βi12(11-15Kw)	1PH8107 (9Kw)
26"/30"/32" ENC Series			
X Axis Servo Motor	FKM44 (11.6Nm)	βis12 (11Nm)	1FK7062 (8.5Nm)
Z Axis Servo Motor	FKM64 (16.5Nm)	βis22 (20Nm)	1FK7084 (20Nm)
Main spindle motor	FS5-A150 (15/22Kw)	βiIP40(15-18.5Kw)	1PH8133(15Kw)

- The above specifications subject to change without prior notice.

Standard Equipments:

- FAGOR 8060FL control system
- Automatic lubrication pump for slideways and ballscrews
- Automatic spindle speed gear change
- Cutting fluid coolant system
- Full enclosed end guard
- Headstock/Gearbox oil cooler
- Working light
- Leveling blocks
- Centers and center sleeve
- Service tools & toolbox

Optional Equipments:

- FANUC 0i-TF control system
- SIEMENS 828D control system
- Manual type 3-jaw scroll chuck
- Manual type 4-jaw independent chuck
- Hydraulic hollow chuck
- DIXON quick change toolpost
- Elec. 4-way toolpost
- Elec. 8-station turret (Front Mounting)
- Hydraulic tailstock
- Steady rest
- Follow rest
- Chain type chip conveyor with cart
- C-Axis with Live Turret
- Special functions by consult

SPECIFICATIONS

MODEL	1530/1550 ENC	1825/1850 ENC	2040/2060 2080/20120 ENC	2240/2260 2280/22120 ENC	2660/2680/26120 26160/26200/26240 ENC	3060/3080/30120 30160/30200/30240 ENC	3260/3280/32120 32160/32200/32240 ENC				
CAPACITY											
Swing over bed	390(15.25)	460(18)	510(20)	560(22)	660(26)	760(30)	800(32)				
Swing over cross slide	220(8.6)	285(11.2)	340(13.5)	390(15.5)	458(18)	560(22)	610(24)				
Swing in gap	610(24)	635(25)	760(30)	810(32)	960(37.8)	1060(41.7)	1110(43.7)				
Distance between center	709(30)/1206(50)	427(17)/1027 (40)	934(40)/1442(60)/1950(80)/2966(120)		1500(60)/2000(80)/3000(120)/4000(160)/5000(200)/6000(240)						
Gap width from faceplate	150(6)	165(6.5)	230(9)		300(11.8)						
HEADSTOCK											
Spindle nose	D1-6(A2-6)	D1-6(A2-6)	D1-8(A2-8)		D1-11(A2-11)	A2-11	D1-11(A2-11)	A2-11	D1-11(A2-11)	A2-11	A2-15
Spindle bore	54(2.125)	54(2.125)	80(3.125)		104	155	104	155	104	155	230
Spindle Bearing	Front	32218	NN3019KR		32026	32930	32940	32930	32940	32930	32940
	Rear	32215	7016DB		32021	32930	32940	32930	32940	32930	32940
Spindle speeds	Low range	-----	13-392		26-266	26-224	30-172	26-224	30-172	26-224	30-172
	Medium range	-----	391-1135		267-766	225-670	173-517	225-670	173-517	225-670	173-517
	High range	60-3000	1136-3500		767-2400	671-2000	518-1400	671-2000	518-1400	671-2000	518-1400
Spindle nose bush	MT6 x MT4	MT6 x MT4	MT7 x MT5		MT8 x MT6	-----	MT8 x MT6	-----	MT8 x MT6	-----	-----
TAILSTOCK											
Quill travel	155(6.125)	140(5.5)	200(8)		300(12)						
Quill diameter	58.5(2.3)	73(2.87)	75(3)		105(4.125)						
Quill taper	MT4	MT5	MT5		MT6						
BED											
Bed width	270(11)	318(12.5)	345(13)		480(18.9)						
Max. longitudinal travel	420(16)/920(36)	300(12)/900(35)	680(26.8)/1190(46.8)/1700(67)/2710(106.7)		1190(46.8)/1700(67)/2710(106.7)/3730(146.8)/4730(186.8)/5730(226.8)						
Max. turning length	370(14)/870(34)	260(10.2)/860(33.8)	630(24.8)/1140(44.8)/1650(65)/2660(104.7)		1140(44.8)/1650(65)/2660(104.7)/3680(144.8)/4680(184.8)/5680(224.8)						
BALLSCREW											
X-Axis Ballscrew Dia.	20 x P5	20 x P5	25 X P5		32 x P5						
Z-Axis Ballscrew Dia.	32 x P5	32 x P5	40 X P10		50 x P10						
GENERAL INFORMATION											
Overall length	2830(121)/3330(131)	2730(107)/3330(131)	2970(117)/3670(145)/4170(164)/5170(204)		4200(165)/4700(185)/5700(224)/6700(264)/7700(304)/8700(344)						
Overall width	2250(88)	2250(88)	2100(83)		2250(88)						
Overall height	2150(85)	2150(85)	2230(88)		2260(88)						
Net weight (Approx. kgs)	1500/1800	2000/2200	2600/2800/3000/3800	2700/2900/3200/4000	4300/4800/6000/7200/8400/9600	4500/5000/6200/7400/8600/9800	5000/5500/6700/7900/9100/10300				
Gross weight (Approx. kgs)	2000/2300	2400/2700	3200/3400/3600/4600	3500/3700/4000/4800	4900/5500/6800/8200/9400/10600	5100/5700/7000/8400/9600/10800	5600/6200/7500/8900/10100/11300				

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HS-18"/22" Series:

- Universal basic turning machine for board range of manufacturing
- Highest productivity for the wide range of applications and industries
- High output belt driven spindle
- Added full C-Axis operation: full milling, drilling and tapping capabilities



SPECIFICATIONS:

MODEL		1825/1850 HS		2240/2260/2280/22120 HS	
CAPACITY					
Swing over bed		460(18)		560(22)	
Swing over cross slide		285(11.2)		390(15.5)	
Swing in gap		635(25)		810(32)	
Distance between center		427(17)/1027 (40)		934(40)/1442(60)/1950(80)/2966(120)	
Gap width from faceplate		165(6.5)		230(9)	
HEADSTOCK					
Spindle nose		A2-6	A2-8	A2-8	A2-8
Spindle bore		62mm		87mm	
Spindle Bearing	Front	NN3020KR	NN3024KR	NN3024KR	NN3028KR
	Rear	NN3018KR	NN3022KR	NN3022KR	NN3026KR
Spindle speeds:	Low range	0-4500rpm	0-3500rpm	0-3500rpm	0-3000rpm
TAILSTOCK					
Quill travel		140(5.5)		200(8)	
Quill diameter		73(2.87)		75(3)	
Quill taper		MT5		MT5	
BED					
Bed width		318(12.5)		345(13)	
Max. longitudinal travel		300(12)/900(35)		680(26.8)/1190(46.8)/1700(67)/2710(106.7)	
Max. turning length		260(10.2)/860(33.8)		630(24.8)/1140(44.8)/1650(65)/2660(104.7)	
BALLSCREW					
X-Axis Ballscrew Dia.		20 x P5		25 x P5	
Z-Axis Ballscrew Dia.		32 x P5		40 x P10	
GENERAL INFORMATION					
Overall length		2730(107)/3330(131)		2970(117)/3670(145)/4170(164)/5170(204)	
Overall width		2250(88)		2100(83)	
Overall height		2150(85)		2230(88)	
Net weight (Approx. kgs)		2000/2200		2700/2900/3200/4000	
Gross weight (Approx. kgs)		2400/2700		3500/3700/4000/4800	

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Standard Equipments:

- FAGOR 8060FL control system
- Automatic lubrication pump for slideways and ballscrews
- High pressure coolant system 1.5Bar
- Full enclosed end guard
- Working light
- Leveling blocks
- Service tools & toolbox

Optional Equipments:

- FANUC 0i-TF control system
- SIEMENS 828D control system
- Manual type chuck
- Hydraulic chuck
- Elec. 8-station turret (Front mounting)
- C-Axis live turret
- Hydraulic tailstock
- Steady rest
- Follow rest
- Chain Type Chip Conveyor
- Special functions by consult

Electric Specification:

Model	FAGOR 8060FL	FANUC 0i-TF	Siemens 828D
18" HS			
X Axis Servo Motor	FKM22 (3.2Nm)	βis2 (2Nm)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	βis8 (7Nm)	1FK7062 (8.5Nm)
Main Spindle Motor	FM7 A110 (11/15.5Kw)	βi Ip15 (7.5-9Kw)	1PH8131 (11Kw)
Live Turret Motor	FKM 44(11.6Nm/4000rpm)	βis12(11Nm/3000rpm)	1FT 7066(4500rpm)
22" HS			
X Axis Servo Motor	FKM22 (3.2Nm)	βis8 (2Nm)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	βis8 (7Nm)	1FK7062 (8.5Nm)
Main spindle Motor	FM7 A150 (15/22Kw)	βi Ip30 (15-18.5Kw)	1PH8133 (15Kw)
Live Turret Motor	FKM 64(16.5Nm/4000rpm)	Bis22(20Nm/3000rpm)	1FT 7084(4500rpm)

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