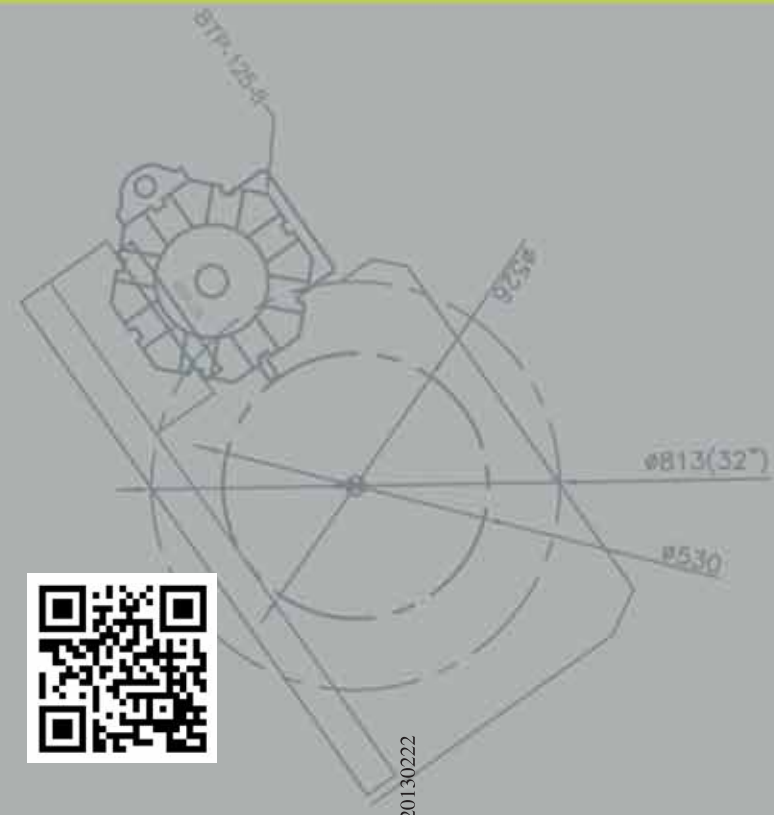


# JESSEY®



**JESCO MACHINERY LTD.**

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## JAGUAR ENC LATHES

20130222



# 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



**1850 ENC**



**2040 ENC**



**30120 ENC**

# ENC LATHES

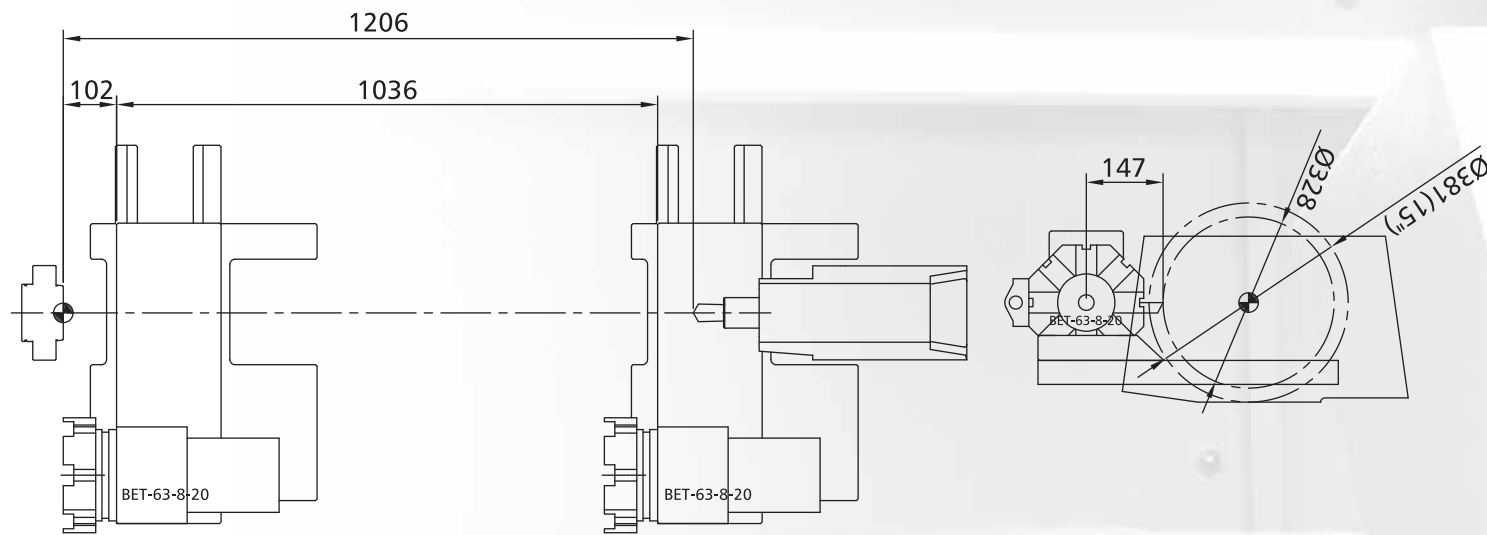


**2060 ENC**

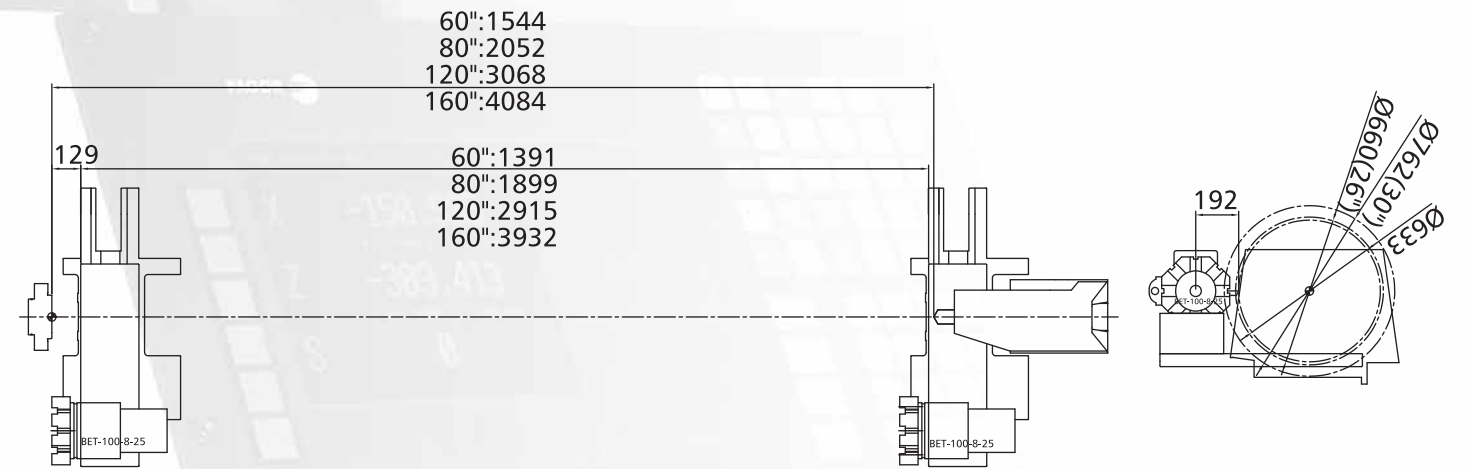


**2080 ENC**

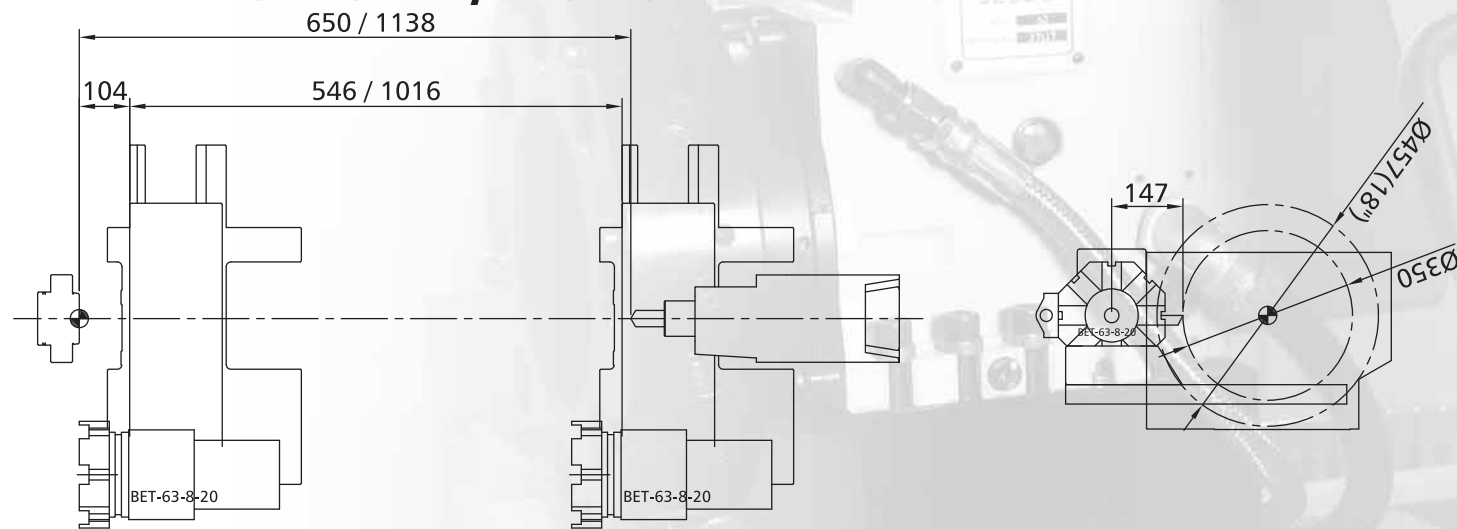
## ENC-1550



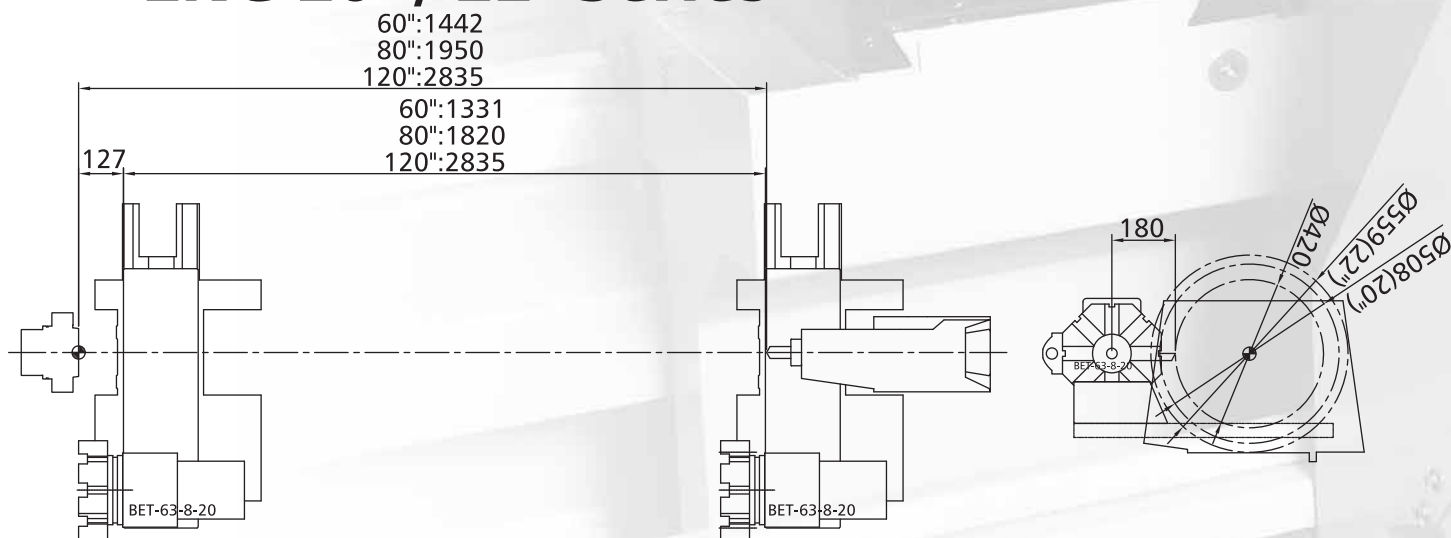
## ENC-26" / 30" Series



## ENC-1825 / 1850



## ENC-20" / 22" Series



## Tooling System

### Quick Change Toolpost

	Type	Tool Section	Boring Bar Dia	MT
ENC-1550 / 1850	JS2T	25 mm	32 mm	2
ENC-20" / 22"	JS3	32 mm	40 mm	3
ENC-26" / 30"	JS3	32 mm	40 mm	3
ENC-32" / 40"	JS4	32 mm	50 mm	4
ENC-52" / 60"	JS4	32 mm	50 mm	4

### Elec. 4-Way Toolpost

Type	Tool Section	Boring Bar Dia
SQTP-166	20 mm	25 mm
SQTP-180	25 mm	40 mm
SQTP-180	25 mm	40 mm

### Elec. 8-Station Turret (mounting at front of cross slide)

	Type	No. of Station	Tool Section	Boring Bar Dia	VDI-Tool Disc
ENC-1550 / 1850	BTP-63	8	20 mm	32 mm	30 mm
ENC-20" / 22"	BTP-80	8	25 mm	40 mm	40 mm
ENC-26" / 30"	BTP-100	8	32 mm	50 mm	40 mm
ENC-32" / 40"	BTP-125	8	32 mm	50 mm	50 mm
ENC-50" / 62"	BTP-160	8	40 mm	60 mm	60 mm

## Driven Tooling

### PRAGATI Driven Tool Turret

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



## SPECIFICATIONS

MODEL	1550	1825	1850	2040/2060 2080/20120	2240/2260 2280/22120	2660/2680 26120/26160	3060/3080 30120/30160
<b>CAPACITY</b>							
Swing over bed	390(15.25)	460(18)		510(20)	560(22)	660(26)	760(30)
Swing over cross slide	240(9.5)	295(11.8)		340(13.5)	390(15.5)	460(18)	560(22)
Swing in gap	610(24)	635(25)		760(30)	810(32)	960(37.8)	1060(41.7)
Distance between center	1250(50)	650(25)	1250(50)	1000(40)/1500(60)/2000(80)/3000(120)			1500(60)/2000(80)/3000(120)/4000(160)
Gap width from faceplate	150(6)	165(6.5)		230(9)		300(11.8)	
<b>HEADSTOCK</b>							
Spindle nose	D1-6(A2-6)	D1-6(A2-6)		D1-8(A2-8)		D1-11(A2-11)	D1-11(A2-11) A2-11
Spindle bore	54(2.125)	54(2.125)		80(3.125)		105	105 155-OPT.
Spindle speeds	Low range	13-340	13-392		26-266		26-224 26-224 10-150
	Medium range	–	391-1135		267-766		225-670 225-670 151-490
	High range	341-3500	1136-3500		767-2400		671-2000 671-2000 491-1400
Spindle nose bush	MT6 x MT4	MT6 x MT4		MT7 x MT5		MT8 x MT6	MT8 x MT6 –
<b>TAILSTOCK</b>							
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	
<b>BED</b>							
Bed width	270(11)	318(12.5)		345(13)		480(18.9)	
Max. longitudinal travel	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)
Max. turning length	870(34)	260(0.2)	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)
<b>GENERAL INFORMATION</b>							
Overall length	3330(131)	2730(107)	3330(131)	2970(117)/3670(145)/4170(164)/5170(204)			4200(165)/4700(185)/5700(224)/6700(264)
Overall width	2250(88)	2250(88)		2100(83)		2250(88)	
Overall height	2150(85)	2150(85)		2230(88)		2260(88)	
Net weight (Approx. kgs)	1800	2000	2200	2600/2800/3000/3800	2700/2900/3200/4000	4300/4800/6000/7200	4500/5000/6200/7400
Gross weight (Approx. kgs)	2300	2400	2700	3200/3400/3600/4600	3500/3700/4000/4800	4900/5500/6800/8200	5100/5700/7000/8400

### Standard Equipments:

- FAGOR 8055i/A-TC 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
- RS-232 port
- Leveling blocks
- Centers and center sleeve
- Service tools & toolbox

### Optional Equipments:

- FANUC 0i-TD control system
- SIEMENS 828D control system
- Manual type 3-jaw scroll chuck
- Manual type 4-jaw independent chuck
- Hydraulic hollow chuck
- DICKSON 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

• The above specifications subject to change without prior notice.

# More selection on **JAGUAR** series with Bigger Swing & Spindle Bore

## Machine Features:

- Automatic headstock speed change with four-range
- 155mm spindle bore is standard and available for bigger spindle bore: 250mm/305mm/380mm.
- Superior headstock positive flow lubrication system with oil-cooler
- The rigid construction bed is with hardened and precision grinding
- Full enclosed and interlocked guarding

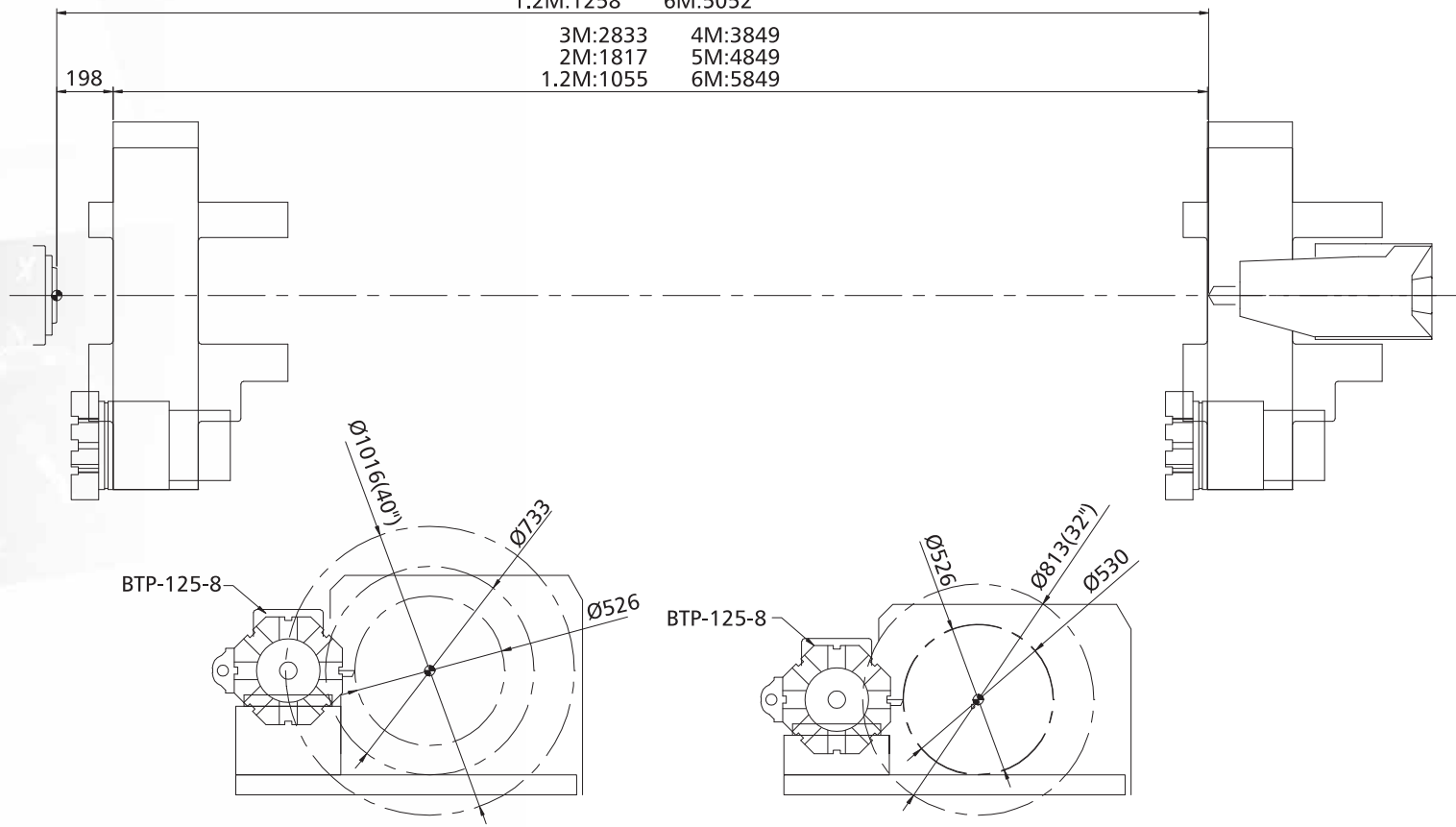


**3250 / 3280 / 32120 / 32160 / 32200 / 32240**  
**4050 / 4080 / 40120 / 40160 / 40200 / 40240**  
**5060 / 5080 / 50120 / 50160 / 50200 / 50240**  
**6260 / 6280 / 62120 / 62160 / 62200 / 62240**



3M:3036	4M:4052
2M:2020	5M:6052
1.2M:1258	6M:5052

3M:2833	4M:3849
2M:1817	5M:4849
1.2M:1055	6M:5849



Spindle Bore offered 155mm / 250mm / 380mm for selection



Headstock Assembly & Lubrication System



Adaptor for Rear Chuck Mounting

**Standard Equipments:**

- FAGOR 8055i/A-TC 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
- Chain type chip conveyor with cart
- Working light
- RS-232 port
- Leveling blocks
- Service tools & toolbox

**Optional Equipments:**

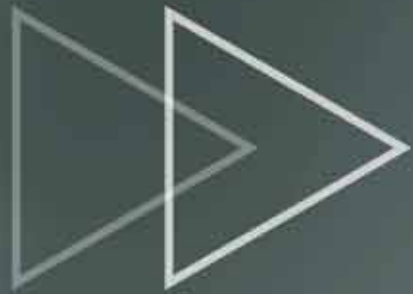
- FANUC 0i-TD control system
- SIEMENS 828D control system
- Manual type chuck
- Hydraulic hollow chuck
- DICKSON quick change toolpost
- Elec. 8-station turret (Front Mounting)
- Hydraulic tailstock
- Steady rest
- Follow rest
- Boring Bar Holder
- C-Axis with Live Turret
- Special functions by consult



# SPECIFICATIONS

MODEL	3250 / 3280 / 32120 32160 / 32200 / 32240				4050 / 4080 / 40120 40160 / 40200 / 40240				5060 / 5080 / 50120 50160 / 50200 / 50240				6260 / 6280 / 62120 62160 / 62200 / 62240			
<b>CAPACITY</b>																
Swing over bed	800 mm				1000 mm				1300 mm				1600 mm			
Swing over cross slide	510 mm				710 mm				900 mm				1200 mm			
Swing in gap	1100 mm				1300 mm				1800 mm				2000 mm			
Center height	400 mm				500 mm				650 mm				800 mm			
Distance between center	1200mm (50") / 2000mm (80") / 3000mm (120") 4000mm (160") / 5000mm (200") / 6000mm (240")								1500mm (60") / 2000mm (80") / 3000mm (120") 4000mm (160") / 5000mm (200") / 6000mm (240")							
<b>HEADSTOCK</b>																
Spindle bore	155mm 250mm 305mm 380mm max 381mm				155mm 250mm 305mm 380mm											
Spindle nose	A2-11 A2-15 A2-20 A2-20				A2-11 A2-15 A2-20 A2-20											
Spindle range	4 4 4 4				4 4 4 4											
Spindle speeds	1-range	9-34 4-14 4-14 4-14				9-34 4-14 4-14 4-14										
	2-range	35-111 15-47 15-47 15-47				35-111 15-47 15-47 15-47										
	3-range	112-414 48-177 48-177 48-177				112-414 48-177 48-177 48-117										
	4-range	415-1400 178-600 178-600 178-600				415-1400 178-600 178-600 178-600										
<b>BALLSCREW</b>																
Z axis ball screw	Ø 63 x P10								Ø 80 x P5							
X axis ball screw	Ø 40 x P5								Ø 40 x P5							
<b>CARRIAGE</b>																
Cross slide width	300 mm								385 mm							
Cross slide travel	550 mm								850 mm							
<b>BED</b>																
Bed width	550 mm								850 mm							
Z axis travel	1050/1820/2820/3820/4820/5820 mm								1320/1820/2820/3820/4820/5820 mm							
<b>TAILSTOCK</b>																
Quill travel	275 mm								300 mm							
Quill diameter	105 mm								180 mm							
Quill taper	MT6								MT7							

• The above specifications subject to change without prior notice.



# CONTROL SYSTEM

It offers three Control System for selection!



FAGOR 8055i/A-TC Control is with 11" Color LCD and offer with Icon Key base conversational programming and ISO G-Code programming.



FANUC 0i-TD Control with 10.4" Color LCD and software: Manual Guide i allow the user to generate part-programs ickly and efficiently.



SIEMENS 828D Control with 10.4" Color Display and software: Shopturn



## ELECTRIC SPECIFICATION

ENC-1550/1850	FAGOR 8055i-A	FANUC 0i TD	Siemens 828D
X Axis Servo Motor	FKM22 (3.2Nm)	$\beta$ is2(2m)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is8(7m)	1FK7062 (8.5Nm)
Main spindle motor	FS5-A075 (7.5/11Kw)	$\beta$ i8 (7.5/11Kw)	1PH8105 (7Kw)
<b>ENC-20" / 22"</b>			
X Axis Servo Motor	FKM22 (3.2Nm)	$\beta$ is2(2m)	1FK7042 (3Nm)
Z Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is8(7m)	1FK7062 (8.5Nm)
Main spindle motor	FS5-A110 (11/15.5Kw)	$\beta$ i12(11-15Kw)	1PH8107 (9Kw)
<b>ENC-26" / 30" Series</b>			
X Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is12 (11Nm)	1FK7062 (11Nm)
Z Axis Servo Motor	FKM64 (16.5Nm)	$\beta$ is22 (20Nm)	1FK7084 (20Nm)
Main spindle motor	FS5-A150 (15/24.5Kw)	$\beta$ i15(15-18.5Kw)	1PH8133 (15Kw)
<b>ENC-32" / 40" Series</b>			
X Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is12 (11Nm)	1FK7062 (11Nm)
Z Axis Servo Motor	FKM64 (16.5Nm)	$\beta$ is22 (20Nm)	1FK7084 (20Nm)
Main spindle motor	FS5-A220 (22/33Kw)	$\alpha$ 22i (22/26Kw)	1PH8133 (23.7Kw)
<b>ENC-50" / 62" Series</b>			
X Axis Servo Motor	FKM44 (23.5Nm)	$\beta$ is30 (27Nm)	1FK7101 (27Nm)
Z Axis Servo Motor	FKM64 (68Nm)	$\beta$ is40 (36Nm)	1FK7103 (36Nm)
Main spindle motor	FS5-A220 (30/45Kw)	$\alpha$ 30i (30/37Kw)	1PH8137(30.6Kw)
<b>ENC-26" / 30" Series with C-Axis Live Turret</b>			
X Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is12 (11Nm)	1FK7063 (11Nm)
Z Axis Servo Motor	FKM64 (20Nm)	$\beta$ is22 (20Nm)	1FK7084 (20Nm)
Tool Axis Servo Motor	FM7-A037	$\alpha$ 3i	1FT7086
Main Spindle Motor	FM7-A150 (11/15Kw)	$\alpha$ 15i (15/18.5Kw)	1PH8133 (15Kw)
<b>ENC-32" / 40" Series with C-Axis Live Turret</b>			
X Axis Servo Motor	FKM44 (11.6Nm)	$\beta$ is12 (11Nm)	1FK7063 (11Nm)
Z Axis Servo Motor	FKM64 (20Nm)	$\beta$ is22 (20Nm)	1FK7084 (20Nm)
Tool Axis Servo Motor	FM7-A037	$\alpha$ 3i	1FT7086
Main Spindle Motor	FM7-A220 (22-33Kw)	$\alpha$ 22i (22/26Kw)	1PH8135 (23.7Kw)

The above specifications subject to change without prior notice.