

***** S P E C I F I C A T I O N *****

MACHINE SIDE

o Capacity

Spindle ----- 4
 Chuck size ----- 8" Hyd. Power Chuck (OD. ϕ 210mm)
 Note 3) Max. Turning Dia. --- ϕ 170mm (on 4T. Drum Turret)
 Note 3) Max. Turning Legth --- 110mm

o Main Spindle

Spindle nose ----- JIS A2 - 6
 Spindle speed ----- (A) 25~
 Spindle Dia. ----- ϕ 90mm

o Carriage

Strokes X/Z ----- 110/250mm
 Rapid Traverse speed X/Z ----- 5000/1000mm/min
 Ball screw X/Z ----- ϕ 28mm P=5mm

o Gang type tooling

Tool Post ----- Original Design
 Turning Tool ----- 25mm Square
 Boring Tool ----- ϕ 40mm

o Drum Turret

	4 T	6 T
Stations -----	4	6
Turning Tool -----	25mm square	20 mm square
Boring Tool -----	ϕ 32mm	ϕ 40 mm

o Electric Motor

Main Spindle ----- AC11kw x2
 Hyd. Pump ----- AC1.5kw 4P x 1
 Carrier Index ----- AC1.5kw 4P x 1
 Loading Spindle driving ----- AC90W 4P x 2
 Chip Conveyor ----- AC100W 4P x 1
 Note 1) Hi. Pressure Coolant Pump --- AC750W 2P x 2
 Note 1) Coolant Pump ----- AC180W 2P x 2
 Note 2) Drum Turret ----- AC 1100W 6P x 2
 Servo Motor X/Z ----- MODEL OM (0.4kw)/5M (0.8kw) x 2

2. Specifications

2.1. Specification of Machine

DESCRIPTIONS		UNIT	PUMA8HC		PUMA10HC	
			METRIC	INCH	METRIC	INCH
CAPACITY	SWING OVER BED	mm(in)	500	19.7	500	19.7
	RECOM. TURNING DIA./LENGTH	mm(in)	210/530	8.3/20.7	255/530	10.0/20.7
	MAX. TURNING DIA./LENGTH	mm(in)	370	14.6	370	14.6
	MAX. BAR WORKING DIA.	mm(in)	51	2.0	74	2.9
SPINDLE	CHUCK SIZE	mm(in)	210	8	255	10
	SPINDLE NOSE/BORE	ASA/mm(in)	A2 #6/62	A2 #6/24	A2 #8/86	A2 #8/3.38
	BEARING DIA., FRONT/REAR	mm(in)	100/90	3.9/3.5	120/105	4.7/4.1
	SPINDLE SPEED	mm(in)	40-4000	←	35-3500	←
	MOTOR POWER, CONT./30MIN	kW(Hp)	11/15(HIM)	15/20(HTM)	18.5/22(HIM)	25/30(HTM)
TAIL STOCK	QUILL DIA./STROKE	mm(in)	80/100	3.75/3.94	80/100	3.75/3.94
	TAPER OF CENTER	MT NO.	#4	←	#4	←
CARRIAGE	SLANT ANGLE	DEG	45	←	45	←
	TRAVEL DISTANCE, X/Z	mm(in)	210/550	8.3/21.7	210/550	8.3/21.7
	RAPID TRAVERSE, X/Z	m/min	12/16	470/630	12/16	470/630
	SERVO MOTOR POWER, X/Z	kW (Hp)	0.9/1.8	1.2/24Hp	0.9/1.8	1.2/24Hp
	BALL SCREW DIA., X/Z	mm(in)	28/40	1.1/1.6	28/40	1.1/1.6
TOOL POST	TURRET STATIONS	ST	12	←	10	←
	TOOL SIZE, TURNING/BORING	mm(in)	25/40	1/15	25/40	1/15
	COUPLING DIA./PCS	mm(in)	180/2	7.1/2	180/2	7.1/2
SUBSPINDLE (OPTION)	CHUCK SIZE	mm(in)	110	4.3	110	4.3
	MAX. TURNING DIA./LENGTH	mm(in)	110/60	4.3/2.4	110/60	4.3/2.4
	MOTOR POWER, CONT./30MIN	kW (Hp)	22/3.7	3.0/5.0	22/3.7	3.0/5.0
	SPINDLE SPEED	RPM	40-4000	←	35-3500	←
	RAPID TRAVERSE	m/min (in/min)	15	600	15	600
OTHERS	PARTS CATCHER, DIA./LENGTH	mm	51×110	20×4.3	74×110	2.9×4.3
	ELECTRICAL POWER SUPPLY	KVA	35	←	40	←
	MEASUREMENT, L×W×H	mm(in)	2855×1930 ×1800	1124×76×71	2855×1930 ×1800	1124×76×71
	GROSS WEIGHT	kg f (Lbs)	4500	9920Lbs	4650	10250Lbs