3. Machine specifications

3.1 Specification tables

3.1.1 PUMA 250MA/PUMA 250MB/PUMA 250LMA/PUMA 250LMB

Description		Unit	Specifications			
			PUMA 250MA	PUMA 250MB	PUMA 250LMA	PUMA 250LMB
Capacity :						
	Swing over bed	mm(in.)	570(22.44)			
	Swing over saddle	mm(in.)	370(14.57)			
	Recom. machining dia.	mm(in.)	210(8.27)	255(10)	210(8.27)	255(10)
	Max. machining dia.	mm(in.)	355(13.97)			
	Max. work length	mm(in.)	650(25.60)		1300(51.18)	
	Draw tube dia.	mm(in.)	52(2.05)	77(3.03)	52(2.05)	77(3.03)
Travels :						
	X axis	mm(in.)	282(104+178){11.10(4.11+6.99)			
	Z axis	mm(in.)	680(26.77)		1330(52.36)	
	C axis	deg	–			
Spindle :						
	Chuck dia.	mm(in.)	210(8.27)	254(10)	210(8.27)	254(10)
	Speed range	rpm	45-4,500	35-3,500	45-4,500	35-3,500
	Spindle nose	ASA#	A2-6	A2-8	A2-6	A2-8
	Spindle bore dia.	mm(in.)	62(2.44)	90(3.54)	62(2.44)	90(3.54)
	Bearing dia.(Front)	mm(in.)	100(3.94)	130(5.12)	100(3.94)	130(5.12)
Turret :						
	No. of tool stations(Type)	st.	12(VDI holder)			
	OD tool height	mm(in.)	25(1)			
	Boring bar dia.	mm(in.)	40(1-1/2)			
	Indexing time	sec	0.2(1st. swivel)			
Rotary tool :						
	Speed range	rpm	40~4000			
	Collets, milling/tab	mm	20/M16			
Feedrates :						
	Rapid traverse	mm/min	X:20,000/Z:24,000			
	Cutting feed	mm/rev	X, Z:0.001~500.000			

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Description		Unit	Specifications			
			PUMA 250MA	PUMA 250MB	PUMA 250LMA	PUMA 250LMB
Tail stock :						
	Quill dia.	mm(in.)	100(3.94)			
	Quill bore taper	MT#	MT#5			
	Quill travel	mm(in.)	100(3.94)			
Motor :						
	Spindle(Cont./30min)	kW	11/15(15/18.5)	15/18.5(18.5/22)	11/15(15/18.5)	15/18.5(18.5/22)
	Rotary tool(Cont./15min)	kW	–			
	Feed drives	kW	X:2.8/Z:4.4			
	Coolant pump	kW	0.24			
Power requirements :		kVA	45	50	45	50
Machine size :						
	Height	mm(in.)	1,825(71.85)		2,065(81.30)	
	Floor space	mmxmm	3,430x1,800		3,990x1,934	
		(inxin)	{135.04x70.87}		{157.09x76.14}	
	Weight(W/CNC system)	kgf	5,740		6,700	
CNC system :			FS18T-C(M520L, FS16T-C)			