

## 1. Specification tables

Description	Unit	Specifications	
		PUMA INVERTURN3000	PUMA INVER- TURN 3000M
<b>Capacity</b>			
Max. swing diameter	mm	400	
Chuck diameter	mm	304	
Max. turning diameter	mm	320	
Max. turning length	mm	200	
Work changing time *1)	sec	8	
<b>Main Spindle</b>			
Spindle speed	rpm	3,300	
Spindle nose	ASA	A2#8	
Spindle bearing diameter (Front)	mm	120	
Max. spindle torque 30min / 25%	Nm	583/700	
Cs spindle index angle	deg	*	1/ 360,000 (360/ 0.001)
Cs spindle index speed	rpm	*	200
<b>Carriage</b>			
Travel distance (X-axis)	mm	1250	
Travel distance (Z-axis)	mm	360	
Rapid traverse (X-axis)	m/ min	45	
Rapid traverse (Z-axis)	m/ min	30	
Max. Cutting feed (X-axis)	mm/ rev	500	
Max. Cutting feed (Z-axis)	mm/ min	500	
Thrust force (X-axis)	kN	9.7	
Thrust force (Z-axis)	kN	11.6	
<b>Turret</b>			
No. of tool stations (Base holder)	st.	12 st.	
OD tool height	mm	25x25	
Boring bar diameter	mm	Ø40	
Indexing time	sec	0.1	
Milling spindle speed	rpm	*	40-4000
Collets, Milling/ Tap	mm	*	20/M16
<b>Motor</b>			
Main spindle motor	kW(N m)	22/15 (583/700)	
Servo motor (X-axis)	kW	4.4	
Servo motor (Z-axis)	kW	4.4	
Milling spindle motor	kW	*	5.5/3.7
Coolant pump motor	kW	1.5	

C-2 MACHINE SPECIFICATIONS

Description	Unit	Specifications	
		PUMA INVERTURN3000	PUMA INVER- TURN 3000M
<b>Others</b>			
Electric power supply	kVA	46.2	48.6
Machine height	mm	2,960	
Floor space (Length)	mm	2,920	3,050
Floor space (Width)	mm	2,024	
Machine mass	kg	8,500	