

SPV-429P

**Mazak**

**OPERATING  
MANUAL  
FOR**

ACCURA JIGMATIC  
AJV-25/404  
AJV-25/405

SERIAL NUMBER

78027

EQUIPMENT

MAZATROL M-32



## 2-2 Machine Body Specification

Item		AJV 25/404	AJV 25/405	
Principal dimensions	Table lateral traveling stroke, X-axis	1000 mm (39.37 in.)		
	Head horizontal traveling stroke Y-axis (except ATC stroke of 270mm/10.62 in.)	508 mm (20 in.)		
	Head vertical traveling stroke, Z-axis	460 mm (18.11 in.)		
	Distance from the center of spindle to the front of the column	650 mm (25.59 in.)		
	Distance from the end of spindle to the top surface of the table	Max. 660 (25.98 in.) ~ Min. 200 (7.87 in.) *1 Max. 860 (33.85 in.) ~ Min. 400 (15.74 in.)		
	Height from the floor level to the top surface of the table	800 mm (31.49 in.)		
	Overall machine height	3026 mm (119.13 in.)	*1 3226 mm (127 in.)	
Spindle	Shape of spindle end	ISO #40	ISO #50	
	Motor	AC motor 15HP (11 kW) (rated continuous operation) 20HP (15 kW)(rated 30-minute operation)		
	Speed	standard 28 ~ 4000 rpm	20 ~ 3150 rpm	
	option	42 ~ 6000 rpm	35 ~ 5000 rpm	
Table	Working area on the table	550 × 1240 mm (21.65 × 48.81 in.)		
	Maximum weight to be loaded on the table	800 kg (1760 lb.)		
ATC	Maximum tool diameter replaceable	ø90 mm (3.93 in.) *2 ø150 mm (5.90 in.)	ø125 mm (4.92 in.) *2 ø150 mm (5.90 in.)	
	Weight (including tool holder & pull stud)	8 kg (17.6 lb.)	15 kg (33 lb.)	
	Length (from the gauge line to the tool top)	300 mm (11.81 in.)		
	Tool clamp force	1200 kg (2645 lb.)	1800 kg (3968 lb.)	
	Number of tools accommodated	standard	30	
		option	40, 60	
Tool selection system	Automatic random short-cut system			
Machining capacity (equivalent to S40C)	Drilling	ø40 mm (ø1.57 in.)		
	Tapping	M36 × P2 (1-1/2" ~ 12 UNF)	M36 × P3 (1-1/2" ~ 8 UNF)	
Power requirement	37.72 kVA			
Primary source/ohm	60 mm <sup>2</sup> /14 mm <sup>2</sup>			
Machine weight (Standard)	Base	2300 kg (5060 lb.)		
	Saddle	400 kg (880 lb.)		
	Table	450 kg (990 lb.)		
	Column	1500 kg (3300 lb.)		
	Head	700 kg (1540 lb.)		
	Tool magazine	1100 kg (2420 lb.)		
	Others (including the hydraulic unit)	850 kg (1870 lb.)		
	Control unit	700 kg (1540 lb.)		
Total	8000 kg (17600 lb.)			

\*1: for Hi-column (option)

\*2: with adjacent pocket empty