

TILT-ROTARY AC-AXIS 5-AXIS CNC MACHINING CENTER

BL-V11-5

SIMULTANEOUS AC AXES, TAIWANESE QUALITY, LINEAR GUIDEWAY

Features:

- 3 axes ROLLER type linear guideway, suitable for heavy-duty cutting
- Whole production process accord to CHINESE TAIWAN standard
- Most parts adopt GERMAN/JAPAN/CHINESE TAIWAN brand
- High speed, high precision, long using lifespan
- Adopt HT300 high class cast iron, after two times aging treatment and FEA analysis
- Combi type simultaneous direct-drive 5 axes

Specification:

Item	Specification	Unit	V11-5
Rotary worktable	Table size	mm	Φ320
	Table max. swing dia.	mm	Φ538
	T slot(qty/width/gap)	mm	8/14/45
	Table max. loading	kg	250
Spindle	Distance from spindle nose to table surface	mm	50-610
	Distance from spindle center to column face	mm	670
	Spindle taper type	/	BBT40-150
	Spindle torque	Nm	25.6/68
	Max. spindle speed	rpm	Electrical spindle direct-drive: 15000/20000*
Feeding axes	X/Y/Z axes travel	mm	810/630/560
	X/Y/Z axes guideway type	/	ROLLER type LINEAR guideway
	X/Y/Z axes guideway width	mm	45/45/45(Z axis 6 blocks)
	X/Y/Z axes ball screw dia./pitch	mm	4016/4012/4012
	X/Y/Z axes rapid moving speed	m/min	36/36/30
	X/Y/Z axes feeding speed	m/min	15
	X/Y/Z axes positioning accuracy	mm	±0.004
	X/Y/Z axes repeatable positioning accuracy	mm	±0.003
AC axes	A axis travel	°	±120
	C axis travel	°	360
	A/C axes torque	Nm	302/120
	A/C axes rapid movement speed	rpm	40/100
	A/C axes positioning accuracy	"	±2.5/±2.5
	A/C axes repeatable positioning accuracy	"	2/2
Tool magazine	Tool holder type	/	BT40
	Tool magazine type	/	Arm type
	Tool qty	pcs	24T
	Tool changing time	s	1.8
	Max. tool weight	kg	8

	Max. tool length	mm	300
	Max. tool dia.(full tool/no adjacent tool)	mm	Φ78/Φ120
Motor	Spindle motor power(rated/max.)	kw	15/18
	Spindle motor torque(rated/max.)	Nm	25.6/68
	X axis motor power/torque(rated/max.)	Kw/Nm	5.9/(28.4/76)
	Y axis motor power/torque(rated/max.)	Kw/Nm	5.9/(28.4/76)
	Z axis motor power/torque(rated/max.)	Kw/Nm	5.9/(28.4/76)
	A axis motor power/torque(rated/max.)	Kw/Nm	2.8/(302/620)
	C axis motor power/torque(rated/max.)	Kw/Nm	4.6/(120/240)
Other	Total power	KVA	40
	Overall size(LxWxH)	mm	2600×2400×2450
	Weight	kg	7500

Main parts list:

Item	Brand
CNC controller	GERMANY-SIEMENS/CHINESE TAIWAN-SYNTEC
Spindle motor&drive	GERMANY-SIEMENS/CHINESE TAIWAN-SYNTEC
Feeding axes motor&drive	GERMANY-SIEMENS/CHINESE TAIWAN-SYNTEC
Spindle unit	CHINESE TAIWAN
Linear guidway	JAPAN-THK
Ball screw	JAPAN-THK
Ball screw bearing	JAPAN-NSK/NTN
Tool magazine	CHINESE TAIWAN
Main electrical parts	FRANCE-SCHNEIDER
Pneumatic parts	CHINESE TAIWAN-AIRTEC

Standard configuration:

- SYNTEC 220MA-5 CNC controller
- 24T ARM type tool magazine

Optional configuration:

- SIEMENS ONE CNC controller
- RTCP function
- Tool setting probe
- Component setting and inspection probe