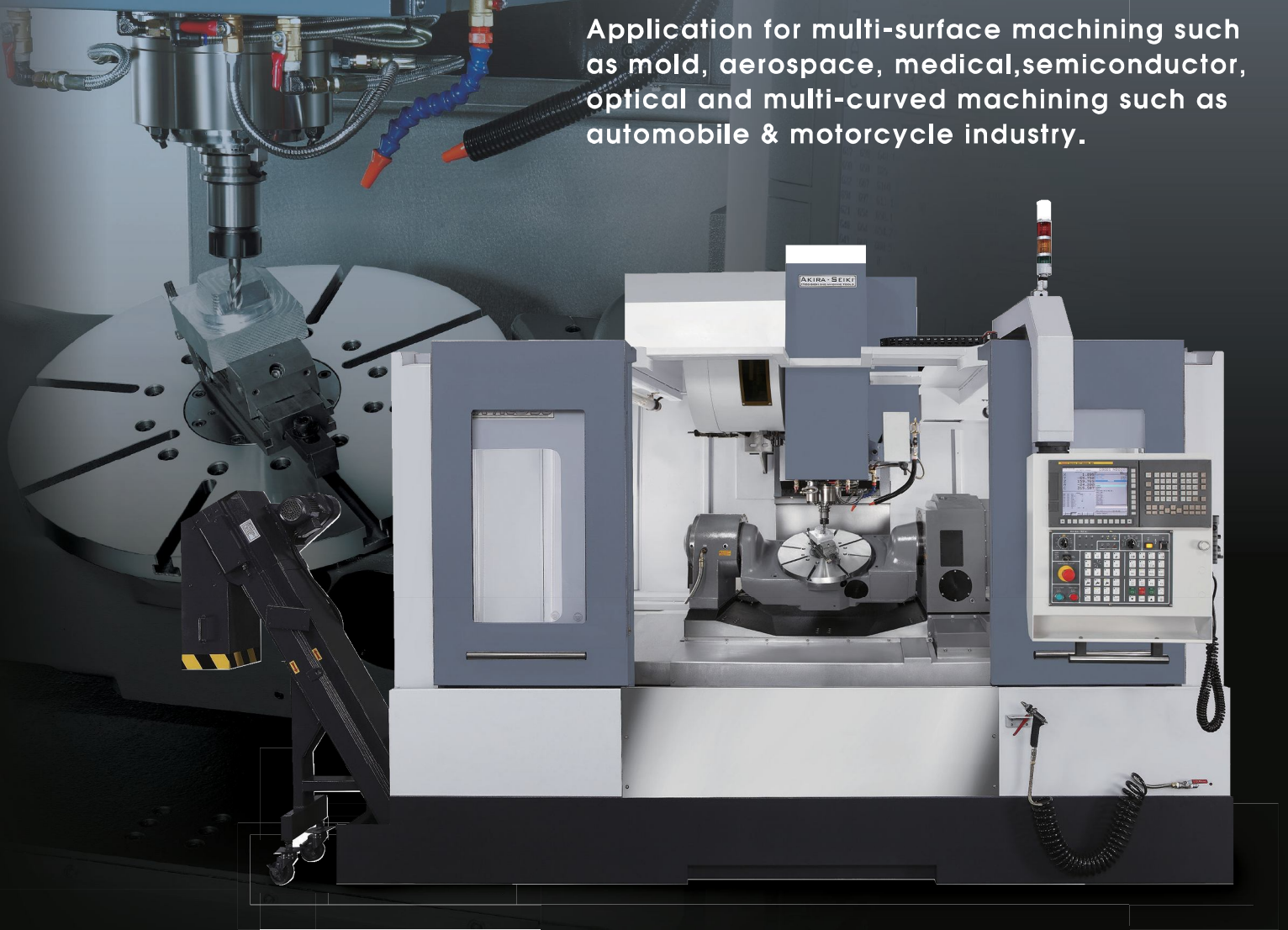


# 5-axis Simultaneous Machining Center

Application for multi-surface machining such as mold, aerospace, medical, semiconductor, optical and multi-curved machining such as automobile & motorcycle industry.



## 5AX-AC650

### Machine Features:

- Fanuc / Siemens NC available
- Meehanite grade casting iron with high stability and lowest deformation.
- The design of the three-axis loading high-speed rail ensures rapid axial movement and stability.
- The A/C axis rotary table adopts the Japanese design rolling type backlash-free hobbing cam mechanism to increase the load and improve the positioning accuracy and the rotating shaft speed.
- With automatic mechanical equipment, the production line is unmanned and easy to manage.
- Cutting feedrate up to 20 M/min.
- One-time clamping reduces the precision error caused by the workpiece clamping and shortens the workpiece loading/unloading time. (options)
- Complete complex mold/part processing in one go, saving the cost of making special fixtures. (options)

## Specification

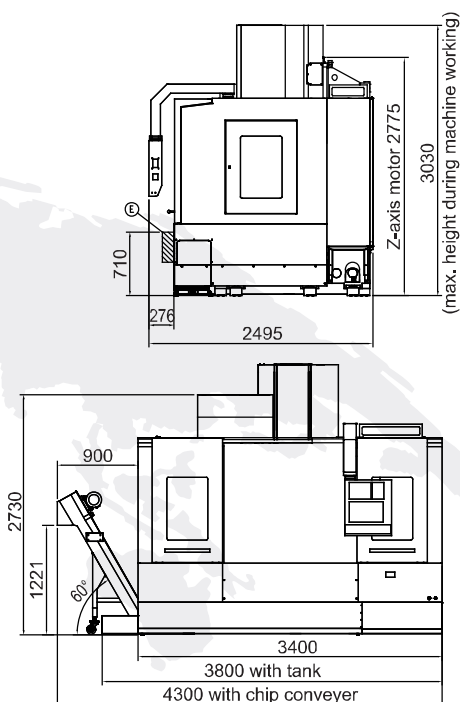
ITEM / TYPE		5AX-AC650
TRAVEL	X axis travel	690 mm
	Y axis travel	590 mm (front 320, rear 270)
	Z axis travel	560 mm
	Distance from nose to table surface	75-635 mm
	Distance from spindle center to cover surface	665 mm
TABLE	Table diameter	Ø500 mm
	Workpiece max. Dimension	Ø650 x 350 mm
	Tilting swing	+30°~-120°
	Max. loading capacity	200 kg
	T-slot pitch	14H7 x 8 slot (45°)
	Tilting speed	25 RPM
	Rotary speed	33.3 RPM
	Tilting / rotary min.Input increment	0.001° / 0.001°
	Tilting / rotary indexing accuracy	40 sec / 20 sec
	Tilting / rotary repeatable accuracy	4 sec / 4 sec
SPINDLE	Method of drive spindle	Belt
	Spindle speed	12,000 RPM (std.)
		15,000 RPM (opt.)
	Spindle taper	BT40 / CAT40 / DIN40
	Spindle motor output (peak)	30 HP-peak
ATC	Method of cooling	Oil chilling
	Tool storage capacity	28T (std.) / 36T (opt.)
	Tool max. diameter	65 mm
	Max. dia. without neighbor tool	130 mm
	Tool max. length	250 mm
FEED	Tool max. weight	7 kg
	Rapid feed X/Y/Z	36/36/30 M/min
GENERAL	Cutting feed X/Y/Z	12/12/12 M/min
	Tank capacity	450 L
	Chip disposal	Chip screw + trolley (80 L)
	Air pressure requirement	5 kg/cm <sup>2</sup>
	Power requirement	30 KVA
	Floor space(W x L x H)	4300 x 2500 mm
Weight		9360 kg

### Standard Configuration:

- Roller linear guide way for XYZ axis
- High precision
- Spindle oil chilling
- Automatic lubrication
- Auto chip flush system
- Full enclosure splashguard
- Coolant through head stock
- Ring nozzles coolant system around spindle
- Working light, 3 color
- Auto power off by M code control
- AKIRA Check-Up preparation for Calibration of Rotary Axes and Compensation

### Option:

- CTS unit - 35 bar
- Big diameter tool management
- Tool life management
- Skimmer for floating oil
- Pneumatic auto door



## AKIRA SEIKI CO., LTD.

### Headquarter

255 CAPITOL ST., LIVERMORE, CA 94551, USA

Tel: +1 925 443 1200

Fax: +1 925 443 1290



www.akiraseiki.com

### Production Line

1st Factory

No.5 Jingle E Rd., Nantun Dist., Taichung City 40852, Taiwan

2nd Factory

No.35 36th Road, Industrial Park Taichung City 40768, Taiwan

Tel: +886 4 2355 2495 / Fax: +886 4 2355 2496