



MAXICAM E9-1224 5 Axis CNC Router



DESCRIPTION

The E9 5 Axis is a state of the art machining centre with full 5 axis interpolation. The machine has been designed to occupy a small footprint whilst still maintaining a good working envelope in full 5 axis (2400 x 1224 x 750mm). Equipped with a state of the art Osai digital closed loop servo NC control system the machine is capable of machining at speeds up to 20m/min. The E9 5 Axis comes as standard with a 10kw HSD spindle and HSK 63 tool clamping for extra precision. The rotary ATC with 8 positions tool carousel can complete tool changes in less than 6 seconds. The standard table size of 2400 x 1220 allows machining of large parts in full 5 axis. The open design of the machine adds greater flexibility as larger parts can be indexed and passed under the gantry for infinite length machining. This machine is commonly used for machining wood, resin tooling board, EPS, composites, trimming of vacuum formed mouldings, plastic fabrication, GRP machining, props, stage sets and model making. The machining center is popular in the automotive, aviation and marine industries.

HSD 10KW SPINDLE & 2 AXIS HEAD



MPG XYZ HANDWHEEL



FEATURES

- Auto tool length sensor as standard
- Traveling area of 1720 x 3040 x 950mm
- Inverter for precise speed control of spindle rpm (4000-24000rpm)
- OSAI NC Controller with simulation
- Aluminium profile table
- Digital closed loop Yaskawa servo motors
- Maxicam highly flexible double sheathed, fire resistant towline cable in cable chain carriage
- CE mark certified machine
- Widely available spare parts
- Compatible with virtually any CAD/CAM software that generates standard ISO G-Code
- HSD 10Kw ATC Spindle
- 8 Position rotary tool changer



APPLICATIONS

- Sign making, letter cutting, logo making, acrylic cutting, engraving on a variety of sheet materials and products
- 2D/3D machining of EPS, EPP, PU and Zotek Foams.
- Relief machining, widely used in the craft and gifts industry
- Light machining/engraving of non-ferrous metals (requires oil mist cooling option)
- 3D ornamental engraving, woodworking, reproduction furniture and door/panel production (subject to software)
- Model making, pattern making, prop manufacture, 3D surface contour machining
- 5 Axis trimming, rebating & contouring
- Pattern and fixture machining
- 3D Sculptures and foundry patterns

AUTO LUBRICATION SYSTEM



SPECIFICATION

No	ITEM	DESCRIPTION	SPECIFICATION	OPTION
1	Working Area XYZ	X	3050mm	
		Y	1720mm	
		Z	950mm	
2	Table Size		1220 x 2400mm	
3	Accuracy	Working Accuracy	0.05mm	
		Repositioning Accuracy	0.05mm	
4	Structure	Table	Vacuum Table	T-Slot or Vacuum/T-Slot Combo
		Transmission	Rack and Pinion X&Y, Ball Screw Z	
5	Speed	Max Positioning	40000mm/min	
		Max Working	25000mm/min	
6	Spindle	Spindle Power	HSD Industrial 10Kw	
		Spindle Speed	6000-22000rpm	0-22000rpm
7	Drive		Yaskawa Servo	
8	Working Voltage		AC415v/3PH/50Hz	
9	Software		Any	
10	Command Code		ISO G-Code	
11	Operating System		Osai	
12	Net Weight		6000kg	
13	Gross Weight		7000kg	



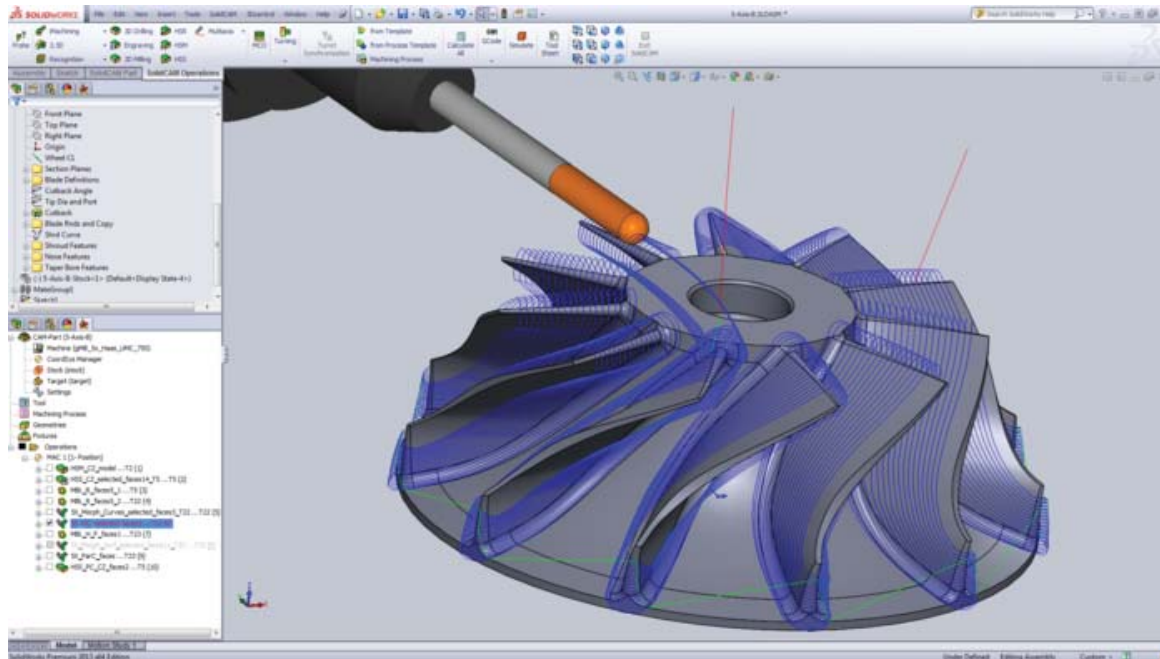
STANDARD CONFIGURATION

- Travelling area XYZ: 1720 x 3050 x 950mm
- Liquid cooled 10Kw HSD ATC Spindle.
- Tool Rack, 8 positions for HSK 63F tool holders
- Industrial chiller unit for liquid cooled spindle
- Powerful Yaskawa digital servo drives and motors
- Tool sensor for rapid setting of tool length
- Aluminium T-Slot table
- 3 x collets of customer's choice 1-20mm, 1 collet nut and spanner
- 3 x HSK ER40 Tool Holder included
- OSAI Closed Loop Control System
- Dell PC, Keyboard, monitor and mouse
- MPG XYZ hand wheel for easy origin and work piece datum setting
- Installation and Maintenance manual
- Tool box with spanners
- 12 month warranty
- CE Marked and certified machine



UPGRADES

- Additional days training on site for up to 2 skilled operatives
- HSK 63F tool holders
- ER40 Collets
- Tooling available from www.powell-shop.com
- Add Becker vacuum pump 250m³/hr and matrix table
- Automatic lubrication system
- Increase Z travel from 950 to 1200mm



SOFTWARE

The E9 5 Axis CNC Router is designed to run from industry standard G-Code command language, this enables the router to work effectively with all of the common CAD/CAM software packages on the market.

Maxicam can supply software from the leading CAD vendors in the industry such as SolidCAM and AlphaCAM. 5 Axis machining software can be expensive to purchase, however the benefits of high quality software offer fast payback's due to the capability to produce complex parts both quickly and accurately.

Maxicam recommends that customers receive a full demo of CAM solutions prior to ordering.

Budgets for full 5axis CAD/CAM should be circa £15-20k





ELECTRICAL/INSTALLATION

The customer must supply 3-phase power to the machine by a qualified electrical engineer. The machine must be isolated with a suitable lock out style isolator (for servicing) and rated to 32amps, an additional isolator maybe required if the customer chooses the dust extractor option. The machine requires a clean/dry compressed air supply with 7bar pressure @ 8CFM.

It is the customer's responsibility to make sure the machine is positioned in an area of adequate space to maintain operator safety at all times. Please note

TRAINING

Training is included in the price for a maximum of two operators. The training will last one day and will cover all aspects of machine safety/maintenance, machine operation and software. For competent machine operators and PC users this is normally adequate. Additional machine training is available at an additional charge.



TRANSPORT

The machine is priced with delivery to the customer's site included (Mainland UK ONLY). Unloading and positioning of the machine is the customer's responsibility. For most machines the use of a forklift truck with fork extensions is adequate.

(Please check gross weight for forklift truck lifting capacity)
Overseas customers are responsible for any shipping costs, import duty, tax, freight forwarding charges and transportation.

The delivery date is conditional on receipt of the down payment within the agreed deadline. The metric functional testing of the machine is carried out at Maxicam. For all machines 2m wide and over additional lifting equipment must be supplied to erect the gantry on site. For a complete turnkey service using professional, fully insured machine movers there will be an additional charge. Please make sure you inform Maxicam if you require the complete managed unloading/assembly service at the time of order. All installations will be carried out by trained Maxicam engineers.

DELIVERY

Due to the vast array of applications suitable for CNC machines most Maxicam CNC Routers are made to order. Standard specification machines are normally supplied on an 14 week lead time. 2-week build time may be added. All lead times will be confirmed at the time of order.



8 POSITION AUTOMATIC TOOL CHANGER



CE STANDARDS/WARRANTY

Certificate of Conformity, according to the requirements established in the part A, Annex VII of the machinery Directive, point 1, Annex IV of EMC Directive and Point 3, Annex IV Low-Voltage Directive.

All Maxicam machines come with a 12 month warranty on the machine and mechanical components for normal use. The spindle comes with a 6 month warranty for normal use. If it is deemed that the machine failure is caused by inadequate maintenance or operator error such as incorrect programming then the warranty may be deemed to be void. However, in all circumstances Maxicam will endeavour to fix the problem as quickly as practicable. Maxicam holds spares in stock ready for immediate worldwide dispatch using TNT Express Airmail service. Please note that any parts deemed to have failed must be returned to Maxicam for assessment by our engineers. Failure to return the failed items may result in the replacement parts being invoiced.

Maxicam machines have been designed for continual operation in high production environments, it is imperative that all maintenance schedules indicated in the user manual are adhered to at all times, failure to comply with the scheduled maintenance may result in the machine warranty being void. Maxicam engineers will train the operatives on the preventative maintenance procedures during the machine training.



PAYMENT TERMS

10% on order
40% Interim payment
40% on delivery prior to unloading
10% on completion

Maxicam Ltd requires written confirmation, confirming all documents are signed and in place and that the monies due will be released into our bank account on delivery.

Maxicam Ltd requests that all payments are made by T.T into our bank account, to enable you to do this our bank details will be printed at the bottom of all invoices.

All prices are + VAT where applicable.

CONTACT

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