

MAXICAM
CUTTING EDGE TECHNOLOGY

cutting edge technology



E10 5 AXIS CNC ROUTER



DESCRIPTION

The E10 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 (2000 x 4000 x 1600mm). 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 E10 5 Axis comes as standard with a 10kw HSD spindle and HSK 63 tool clamping for extra precision. The linear ATC with 8 positions tool carousel can complete tool changes in less than 6 seconds. The standard table size of 4000 x 2000 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 working on wood, resin tooling board, EPS, composites, boat moulds, plastic fabrication, GRP machining, props, stage sets and model making. The machining center is popular in the automotive, aviation and marine industries.

OSAI CONTROL STATION



POWERFUL 10KW HSD SPINDLE



FEATURES

- Auto tool length sensor as standard
- Traveling area of 2800 x 4800 x 2000mm XYZ
- Inverter for precise speed control of spindle rpm (4000-22000rpm)
- OSAI Digital NC Controller with simulation
- 1.5 tonne cast iron t-slot work 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 linear tool changer



APPLICATIONS

- Boat building, moulds and patterns
- 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.
- 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

HSD 5 AXIS HEAD



SPECIFICATION

No	ITEM	DESCRIPTION	SPECIFICATION	OPTION
1	Working Area XYZ	X	2000mm	3000mm
		Y	4000mm	6000mm
		Z	1600mm	2000mm
2	Working Area	C	±245°	
		A	±120°	
3	Accuracy	Working Accuracy	0.05mm XYZ 0.2mm AC	
		Repositioning Accuracy	0.05mm XYZ 0.2mm AC	
4	Structure	Table	Cast Iron T-Slot	
		Transmission	Rack and Pinion X& Y, Ball Screw Z	
5	Speed	Max Positioning	40000mm/min	
		Max Working	20000mm/min	
6	Spindle	Spindle Power	HSD Industrial 10Kw	
		Spindle Speed	6000-22000rpm	
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		10000kg	
13	Gross Weight		12000kg	



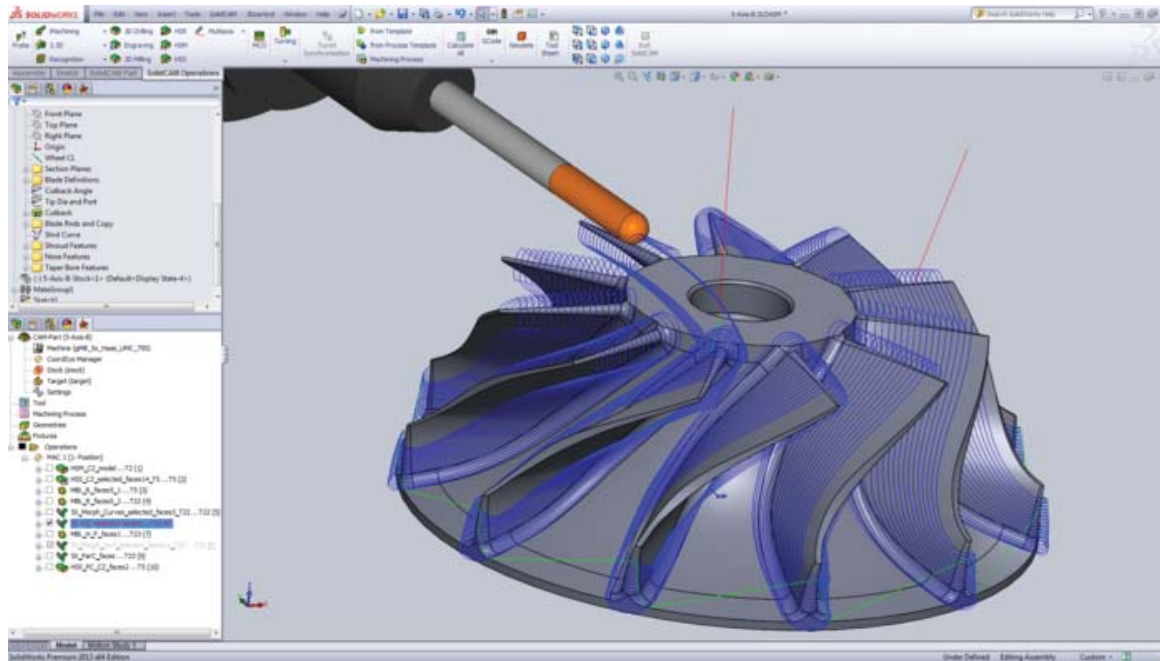
STANDARD CONFIGURATION

- Travelling area XYZ: 2800 x 4800 x 2000mm
- 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
- Cast Iron T-Slot work table
- 8 x collets of customer's choice 1-20mm, 1 collet nut and spanner
- 8 x HSK ER40 Tool Holders included
- OSAI OPEN Closed Loop Digital 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
- Cast Iron T-Slot work table 2000 x 4000mm



SOFTWARE

The M10 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 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





WHY CHOOSE MAXICAM?

We are passionate about our machines. Your success is our success. We want your business to thrive and flourish and our goal is to help you take your business to the next level. Maxicam CNC machines are manufactured in our own modern factory designed and built for purpose in 2010. Maxicam Global Technology are the largest router manufacturer in Asia with current orders of 280 machines per month, supplied domestically and through a network of 36 dealers worldwide. Maxicam UK has been the exclusive dealer for Maxicam Global for the UK and Ireland territories for almost 10 years and has a huge amount of retained CNC experience drawing on over 20 years experience.

- Only use components from the leading brands in automation
- Huge amount of spare parts in stock
- Emphasis on after sales support, average call out response 28 hours
- 80% of technical queries solved within 1 hour via remote access or telephone/email
- Expert knowledge in CNC Controls and servo motor tuning for superior edge finishes and productivity.
- Input in to the machine design and controller for nearly 10 years to supply a truly European quality machine.
- Expert technical knowledge on machining a wide variety of materials, such as composites, engineering plastics, plywood, hardwood, softwood, aluminium, brass, acrylic, diabond etc
- Expert advice on tooling, tooling and consumables can be supplied directly from our own online store www.powell-shop.com
- We don't just sell machines all our engineers are fully trained in their operation for production purposes
- Maxicam machines can be run from any CAD/CAM system, we have Post Processors for a wide range of software e.g. Vectric, ArtCAM, Fusion 360, SolidCAM, SolidEdge, AlphaCAM, DelCAM, MasterCAM
- Due to the vast array of machines in our range we retain expert technical knowledge covering many different industries, such as pattern making, furniture, sign making, plastic fabrication, woodworking, arts and crafts, engineering and many more.

WHY CHOOSE MAXICAM

- State of the art CNC routing machine for 24/7 production
- Solid machine frame and running gear for heavy duty machining
- 9.6kw Italian HSD Long Nose spindle for maximum spindle power, long nose version offers maximum rigidity for the cutting tool.
- The M3 comes as standard with superior HSK tool clamping system, designed to reduce vibration and part accuracy
- Precision ground helical rack and pinion drive for pinpoint accuracy
- State of the art drive system, Yaskawa Digital Mechatrolink III servo motors and drives, through planetary gearboxes for zero backlash on all axis
- Fully closed loop digital OSAI OPEN industrial NC controller by leading Italian controls expert Prima Electro
- Optional touch screen for enhanced user interface experience
- On-board DELL PC for intuitive user interface, remote desktop support, optional CAD/CAM on the machine work console for easy program modifications and programming of parts, full network connectivity to the company network for file sharing
- End of gantry rotary tool changer for faster tool changes
- High powered vacuum pumps from market leading German manufacturer Becker. All our pumps are dry rotary vane for minimum servicing and down time, service interval 2000 hours
- Vacuum matrix table from phenolic. Phenolic worktables have been proven to be flatter and more stable in fluctuating temperatures than PVC or aluminium work decks
- Double layer high flow vacuum table has been developed over the last 10 years to improve vacuum hold down, with over 200 vacuum holes over the table the vacuum distribution is more even and effective than standard porting with just 2 or 3 larger holes in each zone. The high flow table has been designed for the use of vacuum pods in various thicknesses, allowing the work piece to be held off the table for edge machining operations such as double round over. All vacuum pipe-work and manifolds are upgraded from 45mm to 80mm diameter for better vacuum flow
- Machine safety work cell included



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 16-18 week lead time. All lead times will be confirmed at the time of order.



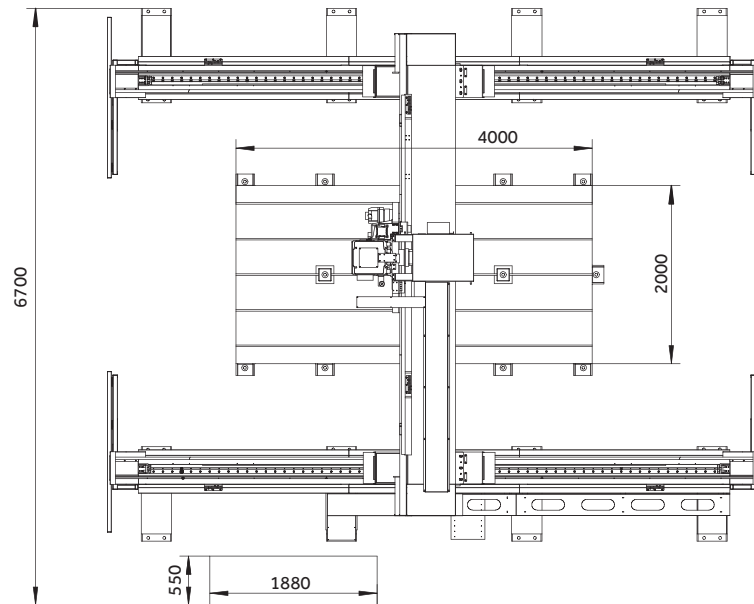
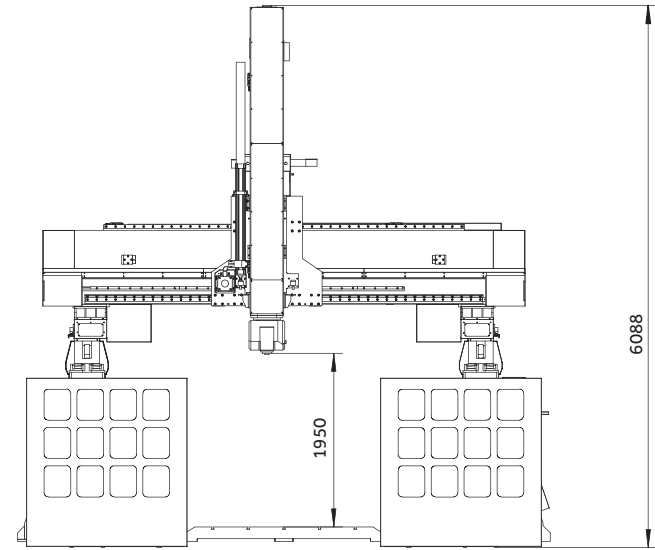
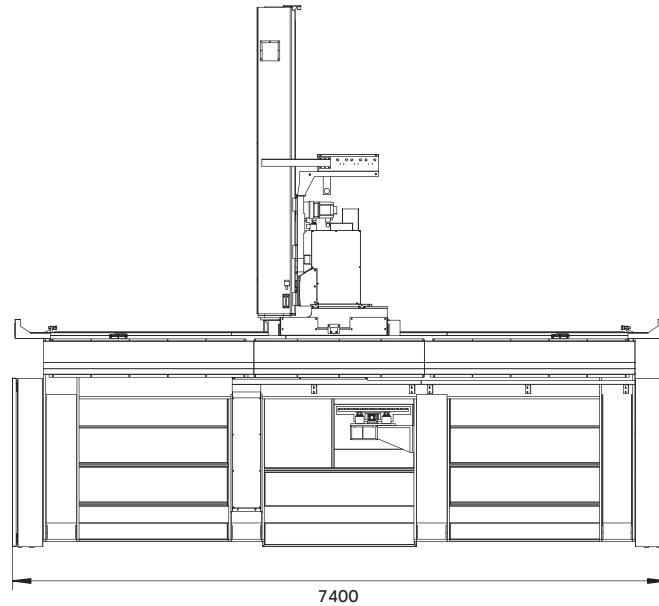
CE STANDARDS/WARRANTY

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





DIMS: MM

MAXICAM UK

AIR: 8BAR @ 12CFM
ELEC.: 40kW

M10-2040



PAYMENT TERMS

10% on order
40% 6 week 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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