

# ZC 3052









## 5 Axis Aluminium Machining Center



### General Features

- It provides safe and continuous (pendular) working opportunity.
- In case of power failure, the spindle is automatically recovered from the profile by means of a program.
- Through that UPS, the machine computer is protected and the interrupted program can be restarted from where it left off.
- The absence of any material that can be damaged in the areas where sawdust and first fall ensures a long life.
- In the standard model, there is a chip conveyor, 10 clamps and a magazine with 12 tool holders capacity. The number of clamps can be increased optionally.
- 3 Pieces of Milling Set and Ø400 mm Saw are supplied with the machine as standard.
- Long-lasting moving parts with automatic lubrication system.
- Robust Mechanical Design suitable for high speeds and accelerations.
- Machine management providing high performance.
- Mitsubishi control unit, internal HDD, optical communication, high speed and precision, 0.001 mm command increment and ETHERNET.
- SERVO control with increased torque on A and C axes with Spinea, positioning at 0.01° intervals.
- Automatic tool length measuring system is available.

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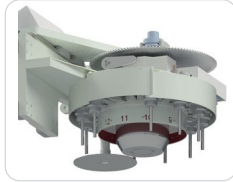
 400 V (50-60 Hz) (kW) 21	 6-8 bar (l/h/dk) 256	 kg 10435	 W x L x H (mm) 11161 x 3788 x 2576	 L (mm) x L (max.) (mm) _ x 7630	 a x h (mm) 460 x 300	 ØD x Ød x b (mm) 200 x 32 x 2 400 x 40 x 4	 X x Y x Z (mm) 8000 x 1170 x 600
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## Spindle



- Servo control with increased torque with Simutomo, positioning at 0.01° intervals.
- HITECO brand thermostat sensor liquid cooled 8.5 kW max. 24,000 rpm spindle.
- Tool cooling system with oil-air mixture spray speed adjustment, liquid level sensor.
- HSK tool holder and tool holder cleaning system.
- Tool change safety protocols written to reduce operator errors as much as possible.

## Magazine



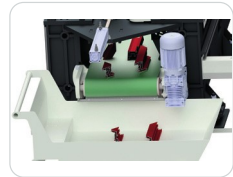
- Magazine with a capacity of 12 tools.
- Tool change feature in maximum 4 seconds.
- It saves time by changing tools while processing the part.
- Ø200mm saw can be added.

## Saw



- Saw has its own magazine.
- Tool change feature in maximum 4 seconds.
- Easy design for saw changing.
- A saw can be mounted up to a maximum of Ø400mm.

## Waste Conveyor



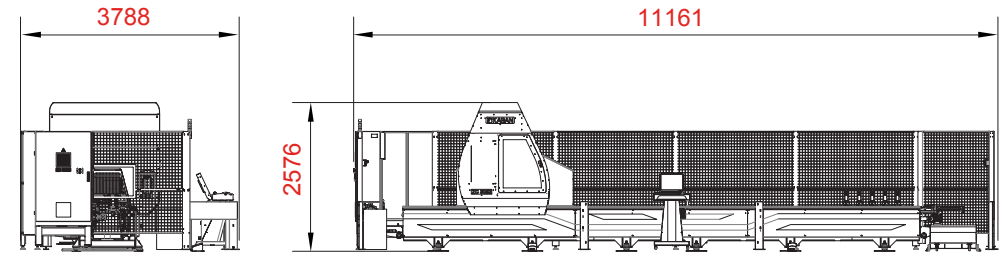
- The belt, made of a special material, which continues throughout the entire processing area of the machine, carries the sawdust and waste falling into this area to the bucket.

## Automatic Tool Length Measuring

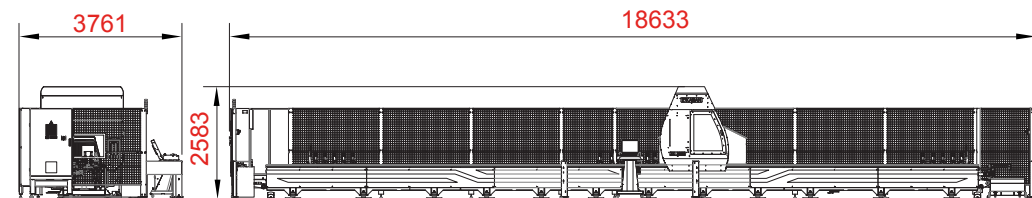


- Tool length measurement is performed at any time with an accuracy of 0.05%. If there is a difference between the value entered in the CAM program and the measured value, it warns.

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### Control Unit



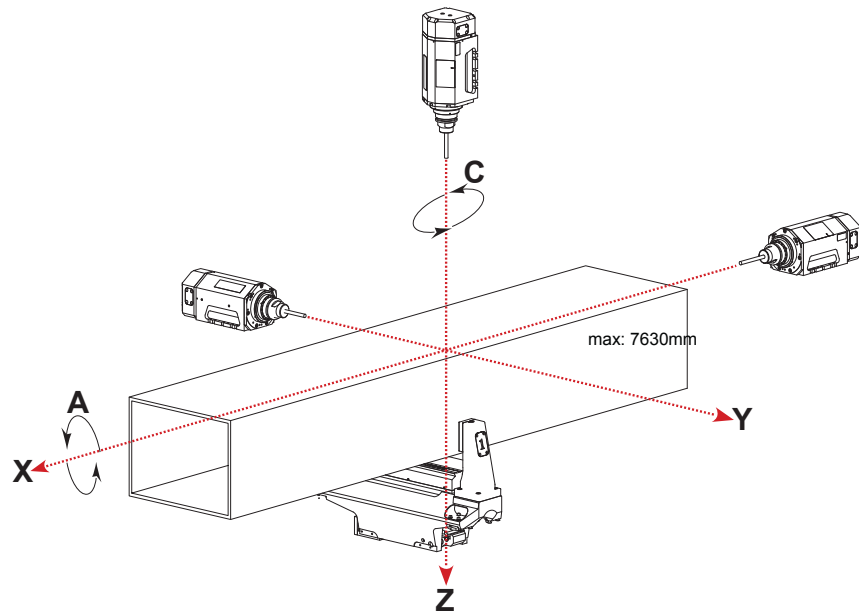
- 19" led screen.
- Easy to use and flexible operating system and interface.
- Mitsubishi control unit.
- Numerical processing is done with G-Code to be transferred from CAD-CAM software.
- It communicates with programs that extract files with .ncx extension.
- High performance machine management.
- Easy parameter settings can be made.
- It has a periodic maintenance reminder function.
- Service support with remote connection.
- Usb and Com Port input.

### Clamps

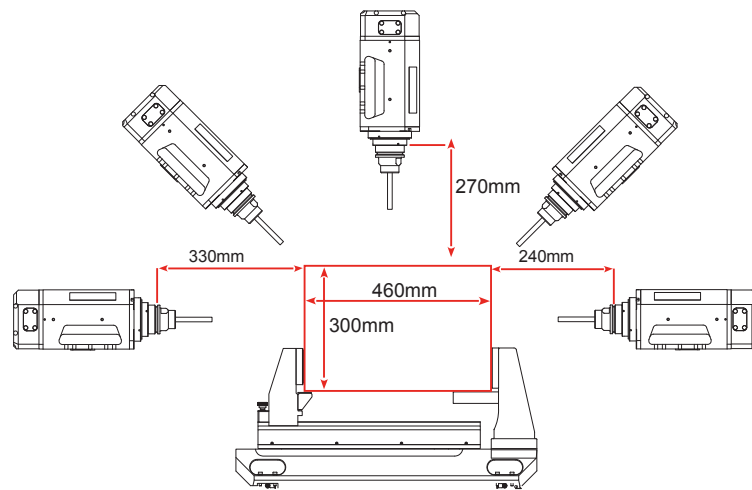


- Profile loading is very easy due to the fact that the clamp fixings are at the front.
- There are 10 clamps in the standard module. With an options clamps number can increase.
- Since the surfaces on which the profile sits are a roller system, it provides ease of sliding the profile on the clamp surface.
- According to the recipes on the workpiece, the vices take a servo-controlled automatic position.
- Easy part resetting with double-sided profile support system.
- Provides profile processing in long lengths. It makes notching from the ends of the profiles with a Ø400 mm saw.
- Clamp tightness can be adjusted according to the profile thickness thanks to the pressure regulator.
- Parts smaller than 300mm can be held and cut with a single clamp.
- Thanks to the profile carrying system with a clamp, the saw can easily enter between the profiles.

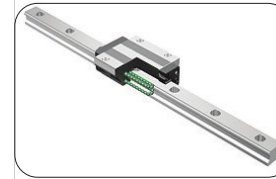
## Axis Display



## A Axis



## Bearing System



- High quality bearings suitable for high speeds whose gap class is zero.

## Optional Equipments

- It can process the bottom surface of the profile thanks to the optional 90° tool.
- With the help of the optional Renishaw probe, part, hole, surface offset, profile length and width measurements can be made.
- It has 3.500 mm longitudinal machining dimension in two separate stations and 7.630 mm machining dimension in total (length is optional, module 2, and module 4 options are available.)
- Different types of Spindle can be selected as an option.
- Handwheel can be added as an option.