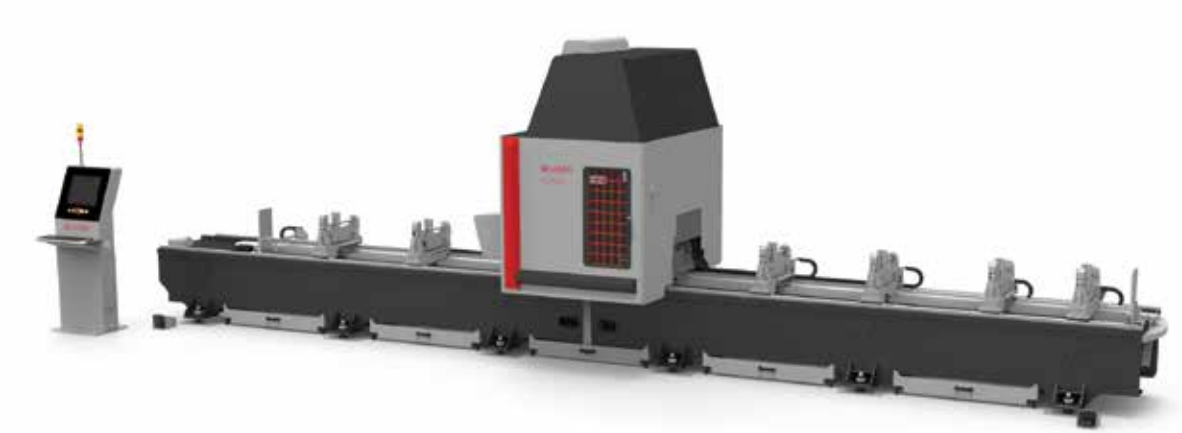
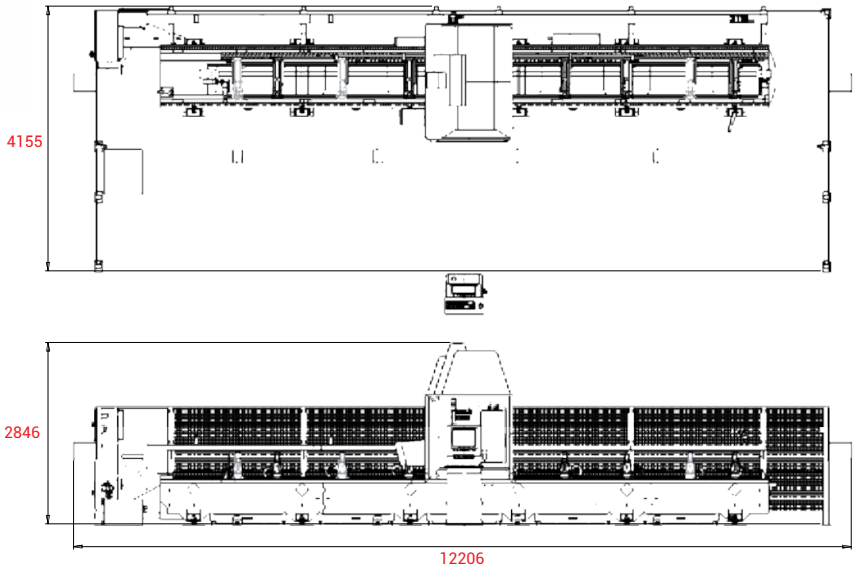
ZC 3050

5 Axis Aluminium Machining Center





General Features

- Robust Mechanical Design for high speed and acceleration.
- It provides maximum performance as it is produced using high quality materials.
- Long-life moving parts with automatic lubrication system.
- The standard model has 5 chip buckets, 10 clamps and 8 tool holders.
- Mitsubishi CNC M720VW control unit, internal HDD, optical communication, high speed and precision, 0.001 mm command increment and ethernet interface.
- In case of power failure, the spindle is automatically recovered from the profile by means of a program. The machine computer is protected by UPS. In this way, the remaining program can be restarted from where it left off.
- Thanks to the field scanner and right-left stoppers, it provides continuous operation.
- With the optional 90° tool, it can process the bottom surface of the profile.
- Profile length and width measurements can be made with the optional probe.
- The absence of any material that could be damaged in the areas where sawdust and wastes fall, provides a long life.

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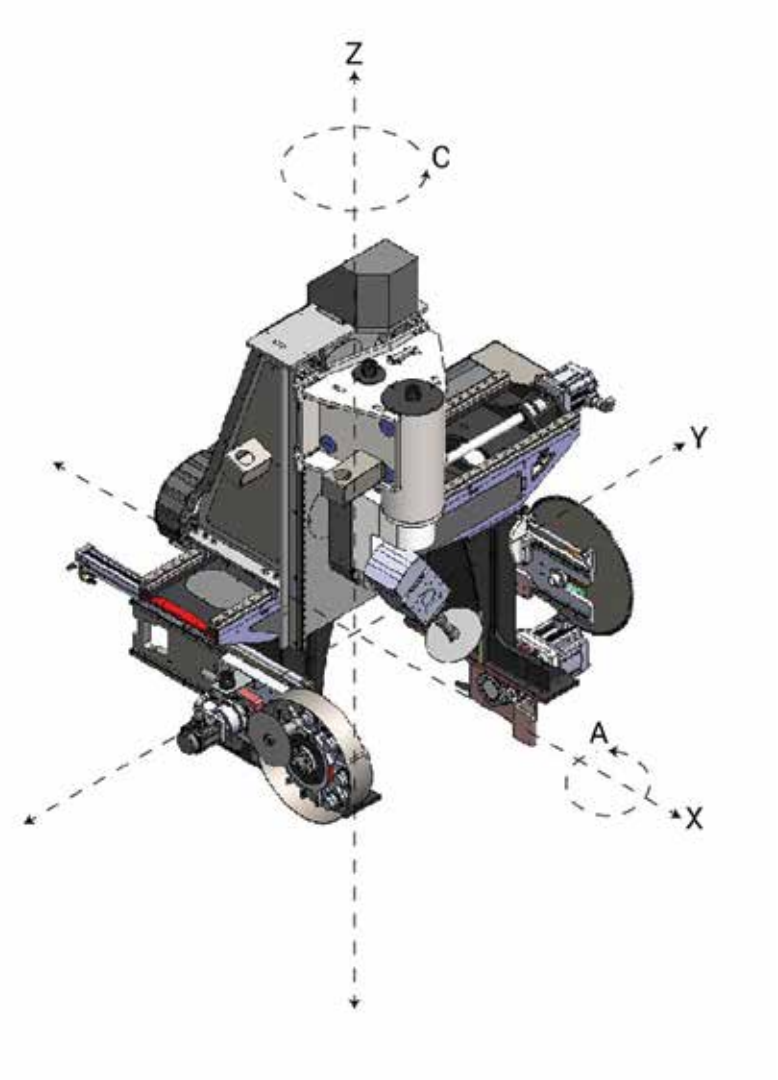
400 V (50-60 Hz) (kW)	6-8 bar (lt/dk)	kg	W x L x H (mm)	L(min.) x L(max.) (mm)	a x h (mm)	ØD x Ød x b (mm)	X x Y x Z (mm)
23,4	450	8255	12206 x 4155 x 2846	8328 x 16000	400 x 300 -	200 x 32 x 2 500 x 30 x 4	8885 x 1075 x 725



Spindle

- Torque-boosted servo control with spinea 0,010 gap positioning.
- HSD brand spindle which has thermostat sensor with liquid cooling 12 kW max. 24,000 rpm.
- Tool cooling system with oil-air mixture spraying, speed adjustment and liquid level sensor.
- HSK tool holder and tool holder cleaning system.
- Tool change security protocols written to reduce operator errors as much as possible.

Magazine

- 8 tool capacity magazine.
- Tool change feature in 8 seconds.
- Easy access from the front to change the tools from the magazine.
- It allows to save time by changing the tool when passing from one operation to another one on the piece.
- Ø200mm saw can be installed.

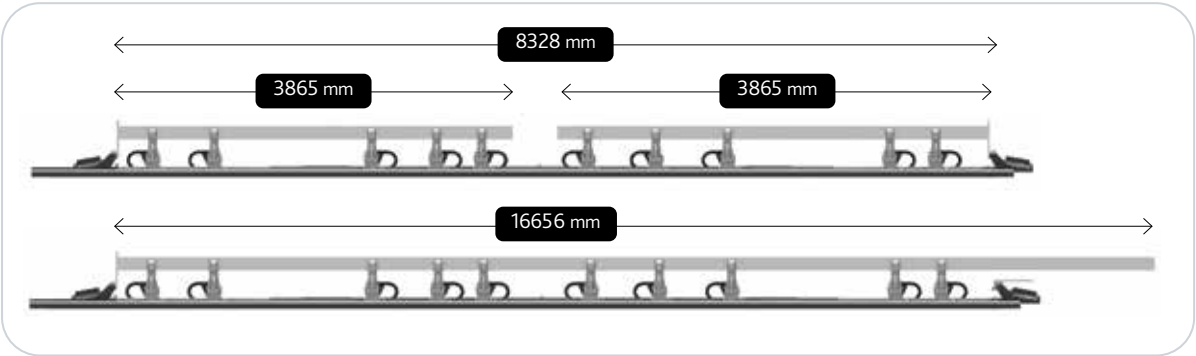
Saw

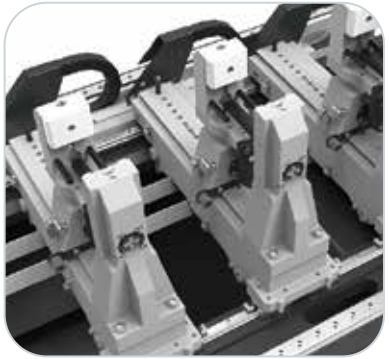
- It has its own magazine.
- Tool change feature in 8 seconds.
- Easy design for saw changing process.
- Up to Ø500mm saw can be mounted.

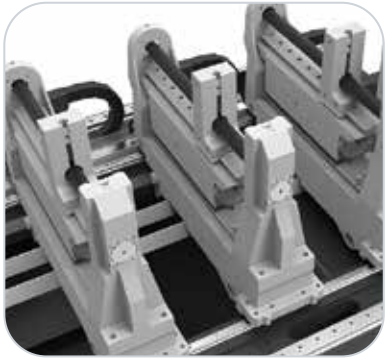
Control Panel

- Easy to use and flexible operating system and interface.
- Mitsubishi CNC control unit.
- Numerical processing with G-Code transferred from CAD-CAM software.
- It communicates with ORGADATA and programs that extract .ncx files.
- High performance machine management.
- Easy parameter settings.
- It has periodic maintenance reminder function.
- Service support with remote connection.
- Usb and Com Port input.

Clamps



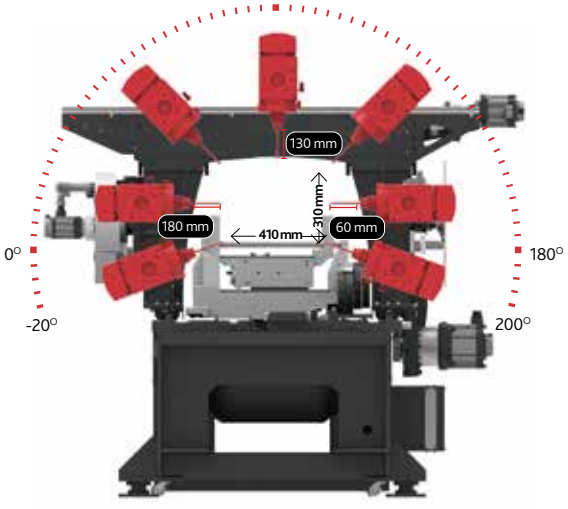




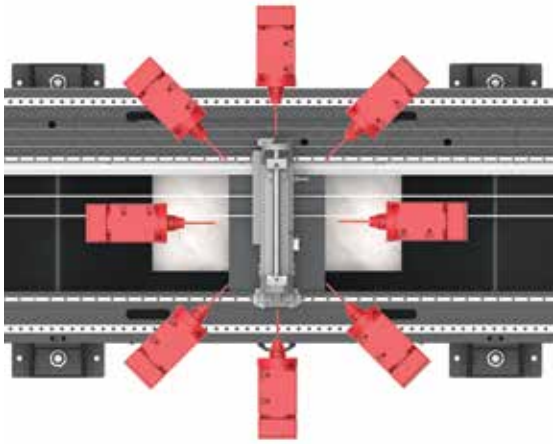
- Since the clamp constants are at the front, the profile loading process is very easy.
- The standard module has 6 clamps with 2 types.
- Roller system of the surfaces where the profile is placed provides the comfort of profile sliding.
- According to the receipts on the workpiece, the clamps receive servo-controlled automatic position.
- Easy piece referencing with double-sided profile support system.
- Long length profile processing is available. With Ø500 mm saw blade, it makes milling from the ends of the profiles.
- Thanks to the pressure regulator, the clamp tightness can be adjusted according to the profile thickness.
- Pieces smaller than 300mm with a single clamp.
- Thanks to the profile conveying system with the clamp, the saw can easily be inserted between the profiles.

A Axis

- It processes profiles of aluminum, plastic and wood materials in width and height shown in the picture.
- The tool sizes according to the direction and the piece is shown in the picture below.



C Axis



Bearing System

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

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Motor Specifications	Power (kW)	Motor Speed (rpm)	Angular Speed (°/dk)	Axis Speed (m/dk)	Reductor
Spindle Motor (HSD ES779)	12,00	24000	-	-	-
X Axis Servo Motor	3,50	3000	-	144	PSFN 140 - i:10
Y Axis Servo Motor	1,50	4000	-	40	-
Z Axis Servo Motor	1,00	3000	-	30	-
A Axis Servo Motor	0,75	4000	160	-	Spinea i:115
C Axis Servo Motor	0,75	4000	210	-	Spinea i:115
Magazine Servo Motor	0,75	4000		-	AD 110 i:61
Clamp Servo Motor	0,75	4000	-		SD 90 i:50