

## 5-Axis Aluminium Profile Processing Centre

# AIM 7510



### FEATURES

- The AIM 7510 is a 5-axis servo-controlled machining centre which is designed to perform drilling, grooving, notching, tapping, saw milling, etc. on all kinds of aluminium, light alloys and thin walled steel profiles.
- Efficient and economic processing on the six sides of the profiles is possible with this fully automatic machining centre.
- The moveable 'turret' type tool magazine is equipped with 12 standard tools providing a fast tool change. It is housed within the mobile gantry to minimize the tool change time. An additional magazine for the 350 mm dia saw blade ensures the ease of machining on the exterior applications of the profiles.
- The machine can be used in tandem mode, a work method that allows machine stop times to be reduced to a minimum as it allows work piece change over time (loading/unloading) to be run while the machine is operating.
- Automatic clamp recognition and clamp positioning is available. The machine can be operated as two stations with separated working zones to avoid the loss of loading & unloading time.
- The machine is produced with steel profiles and sheet, and ergonomically designed to allow operators easy positioning of work pieces by hand.
- Metal components are painted with Electrostatic Powder Coating providing resistance against corrosion. The front section of machine is covered with a moving door with transparent plexiglass windows so that the operator can easily follow the machining process of each work piece. This door also provides safety for operator.

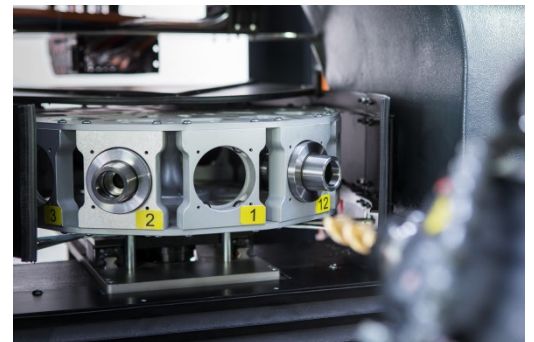
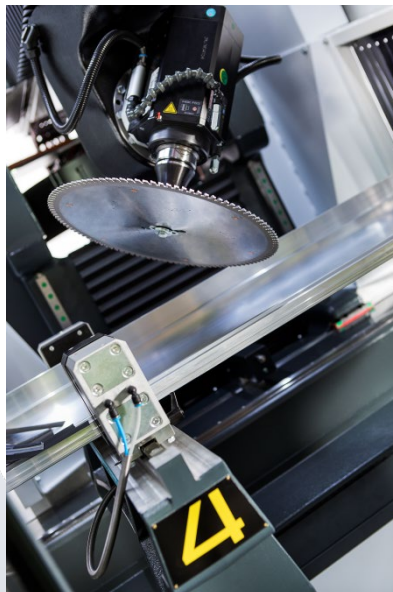
# PROSAW

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## MAIN SPECIFICATION



- CNC automation system providing motion control of 5-axis
- Uninterrupted machining by means of the tandem mode
- Magazine unit for 12 standard tools and 1 for saw blade with 350 mm dia.
- Solid steel construction of the body and dynamic performance gantry
- Automatic clamp recognition and clamp positioning are available
- Tapping feature up to M8
- Special sound insulation cabinet around the machining centre
- CNC controlled spray tool lubrication system
- 8 x automatic clamps used for grabbing the work piece firmly
- 2 x pneumatic stops used for setting the work piece in X direction
- Hand held controller allows you to prove the job before running at speed
- Optimum operational safety guaranteed by 3-zone field scanner system
- 10" color touch screen
- Program import via USB flash memory stick
- Standard ISO 'G' code programming language
- Automatic central guide lubrication system
- LED lighting in the cabinet
- Multi-language support



## TECHNICAL SPECIFICATION

<b>WORKING CAPACITY</b>	
X-axis (mm)	7000
Y-axis (mm)	*350
Z-axis (mm)	200
C-axis (mm)	+180° / -180°
A-axis (	+110° / -110°
<b>ELECTRO SPINDLE</b>	
Max. speed (R.P.M))	20,000
Max. power with S6 (kW)	8.7
Spindle taper	HSK F- 63
<b>AUTOMATIC TOOL MAGAZINE</b>	
Tool capacity	12+1
Automatic tool magazine type	turret type
Saw blade dia. (mm)	350
Max. tool weight (kg)	3
<b>FUNCTIONS</b>	
Multi-piece operations (holes, slots, notching, saw blade cuts, tapping)	
<b>MACHINABLE FACES</b>	
With straight tool (top + side faces + ends)	1+2+2
With blade tool (top + side faces + ends)	1+2+2
<b>FEEDRATE</b>	
Axis speed (m/min.)	X-axis: 60m/min, Y-axis: 60m/min, Z-axis: 19m/min, A-axis: 240°/s, C- axis : 240°/s
5-axis servo motors (kW)	X-axis:1.5 / Y-axis:0.4 / Z-axis:1.5 / A-axis:0.2 / C-axis : 0.4
<b>GENERAL</b>	
Net / gross weight (kg)	
Net / packing dimensions (WxLxH) (mm)	3150 x 10100 x 2255 / 2050 x 9065 x 2255
Air supply required (bar)	6
Voltage-frequency	400V 3P-50/60Hz
Total power (kW)	15
<b>WORKPIECE CLAMPING</b>	
Standard number of vises	8
Max. loadable number of the vises	10
Vice positioning through the X-axis	Automatic

\* In case of front side milling it is 200 mm