

# IDEA AND POWER: Machining Centres for prestigious furniture

Case History Voglauer





Tradition and innovation:  
the Voglauer brand  
is synonymous with  
quality solid  
wood furniture.

*The Austrian company remains faithful to traditional values whilst using advanced production technologies, notably including a broad range of CMS Balestrini machines, now also supported by robot technology.*

*For many years, the Austrian company is preferring CMS Balestrini machines for its main processings.*



## **VOGLAUER**

It grew from a small carpentry mountain workshop, founded in 1932, into one of the most important European manufacturers of high quality wood furniture: this is the successful path taken by the Voglauer, with company headquarters in Abtenau, near Salzburg. Located in the delightful Lammer valley, Voglauer produces furniture that tastefully furnishes prestigious hotel rooms in various parts of the world and that enhances the design of villas and charming residences, including some of the most beautiful alpine residences, and the company is gaining an increasing number of discerning admirers as well as increasing market share also outside its traditional business catchment areas. Countless awards especially in recent years in the design field and for the proactive approach shown in interior furnishing systems. This result stems from the ability to keep the traditional style alive and renewed with unique design solutions, sometimes totally original in terms of form and use of materials. In summary: Voglauer furniture combines natural inspiration and the desire to furnish using wood - with the requirements of contemporary living. The company still remains under family ownership and management despite the fact that its departments comprise more than 35,000 sqm of covered space, with its personnel exceeding 400 units. For many years, the Austrian company has preferred to use machines of the CMS group for the main types of machining (the first CMS unit, installed in 1989, is still in operation!).

In particular, the dialogue of mutual trust, esteem and strong collaboration with CMS Balestrini, begun in 2001, has ultimately resulted in a machine inventory originating in Italy which represents the backbone of Voglauer process technologies. A key strength of Voglauer is its technological equipment, including advanced machines which are beginning to be supported by robots to facilitate the loading and unloading of parts from the production islands. Robotisation has been recently used, for instance, with one of the CMS Balestrini machines operating within the Voglauer plants.



# → Idea one machining centre that meet the demanding production expectations of Voglauer

## SPEED / POWER

The decision to purchase the machine came after the need for greater productivity. The machines have motors from 9.2 up to 17 kW, and all have won the duration/precision challenge

## FLEXIBILITY

The configuration of the benches is such to allow the passage from the machining of small solid wood panels (drawer fronts, etc.) to long and slender solid wood pieces

## RELIABILITY

Idea has proven to be accurate and reliable. Meeting all the customer expectations



Idea is an advanced 5-axis CNC gantry machining centre with two workbenches. It mills complex surfaces that develop in space, typical for the machining of various solid wood components. The operating head can use 4 independent electrospindles to switch from one machining operation to another in a very short time.

→ Power

a machining centre

which offers high

operating flexibility

**STRENGTH / PRECISION**

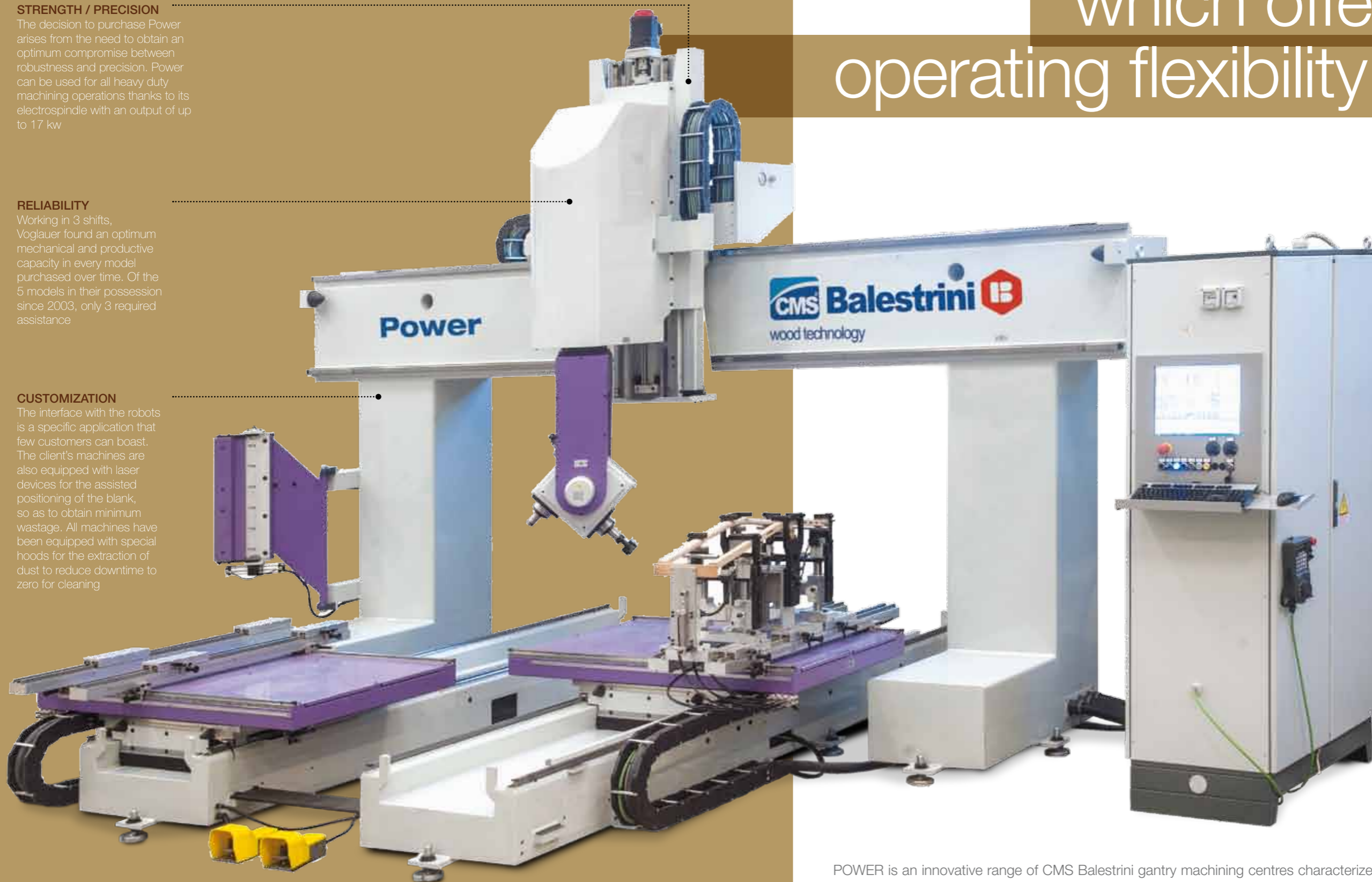
The decision to purchase Power arises from the need to obtain an optimum compromise between robustness and precision. Power can be used for all heavy duty machining operations thanks to its electrospindle with an output of up to 17 kw

**RELIABILITY**

Working in 3 shifts, Voglauer found an optimum mechanical and productive capacity in every model purchased over time. Of the 5 models in their possession since 2003, only 3 required assistance

**CUSTOMIZATION**

The interface with the robots is a specific application that few customers can boast. The client's machines are also equipped with laser devices for the assisted positioning of the blank, so as to obtain minimum wastage. All machines have been equipped with special hoods for the extraction of dust to reduce downtime to zero for cleaning



POWER is an innovative range of CMS Balestrini gantry machining centres characterized by high flexibility of use in the multiple and ever more demanding needs of the wood industry. POWER allows configuring the machine with different specific solutions for maximum productivity. The compact dimensions do not limit the power outputs but rather ease the handling of the workbenches during the setup for machining changeovers.

Precision, versatility and high production rates can be easily adapted to the needs of the industrial process.



The range of machines for wood processing in Voglauer departments is the result of extensive industry experience and the constant attention aimed at obtaining the exact results required in all procedures, in particular with regard to profiling, carving, countersinking, milling, sanding and trimming. Voglauer furniture position themselves on the market and are characterized by the precise machining of all solid wood parts, a proven high quality in each piece. At the same time Voglauer

←  
A  
“handcrafted”  
precision  
that requires very  
versatile machines to  
offer the best quality.



is an industry in all intents and purposes, both in terms of scale of production and the extent of the range: hence the need of advanced technologies for performance and management rationalisation, where the numerical control is a strategic necessity.

High production rates combine with the need to ensure maximum accuracy. But that's not all: the still “handcrafted” component of different elements and features requires machines that have the versatility that allows to go beyond serial dynamics.

Performance, precision, diversity of use, ease of use, perfect details in the smallest of features: a challenge that found the ideal solution in CMS Balestrini technologies.



Since 1995 CMS  
Balestrini machines have  
assisted Voglauer in the  
creation of furniture that  
combines design with  
unique beauty of wood.



CMS Balestrini machines are dedicated to the production of the highest range of furniture offered by Voglauer, mainly solid wood furniture manicured in every aspect: design, structure, finishes, including precious “shaved and brushed” surfaces that allow to achieve an aesthetic and tactile effect that combines sophistication “and the rusticity” of raw wood. The architect of this style is first and foremost the pre-

vious V-Montana line, a program of furnishing solutions with which Voglauer demonstrates at the highest level what it means to combine the naturalness and authenticity of solid wood with a modern design. The CMS Balestrini five-axis and multi-spindle machines guarantee perfect results on each piece, while ensuring a versatility and action speed to unite unquestionable quality to high production rates.

# CMS Balestrini solutions in the judgment of the Voglauer customer.

Martyn Dygruber is Voglauer Executive Manager, his work including the selection and collaboration with technology partners, as well as the optimization of the production lines based on the philosophy and the specific expectations of the company. The well-established dialogue with CMS Balestrini has been gathering pace both on the performance of machining

and the passionate collaborative spirit of the Italian staff who assisted us in the development of an overall technological upgrading and implementation project of our production lines. This collaboration has become more and more consolidated over time, well beyond the relationship that can be established with a good supplier. We can rightly consider CMS Balestrini a



centres, as well as verifying the availability to meet the non-standardized indications of Voglauer, the constant search for improvements, customizations and dedicated solutions to reach the excellence in the industrial process, both in terms of output quality and the maximum efficiency of each machining centre. "We sensed immediately, when we met at a trade show several years ago, that CMS Balestrini technology had all the characteristics and potential to become the main core of our technological pool. We were very impressed with both the structure and the possibility to configure the machines with different specific solutions for maximum productivity. When we

partner. A positive collaboration that has been confirmed over the years, even recently. The system integration with robots has necessitated the need to work together to find the best process configuration. This has now been achieved, as confirmed by the accomplishments of the specific machining centre for the milling of elements of the V-Montana line. Equally important is the collaborative response to the issue of dust arising from this process: together we have found the solution to a problem that we deem very important, especially with regard to the quality of the working environment, a subject to which Voglauer care very much".



← CMS Balestrini:  
a partner.  
This collaboration is becoming  
every day stronger.  
It's more than a good  
relationship between a supplier  
and its customer



# Advantages

## High performance

The multispindle head with automated tool changer is the perfect solution to achieve high angles, without the use of special devices. The possibility to carry out machining of three-dimensional shapes at high speed and with full respect of geometries.



## Fully modular

The machines are equipped with modular benches that simplify the management of each piece type. Also adjustable in height, thereby optimising the various machining operations under all use conditions.



## Maximum ease of control

Dedicated software allow to predefine any type of machining operation on the pieces and work in full automation, both in the management of the machine and in the coordination with other devices of the machining centre.



## Integration with robots

The structure and the versatility of the machines make them already setup for industrial process synergies with robots.



The precision and the technical-qualitative characteristics of the processes performed with the CMS Balestrini machines and machining centres allow Voglauer to produce furniture of a particularly high aesthetic value. A significant example of this is the furniture of the V-Montana line, which are distinguished by the refinement of execution, despite belonging to a highly evolved serial procedure. There are many details and design choices that highlight this quality, such as the rounded lines and perfect fit between elements, which further enhance the “rough and brushed” surface effect which is a must for those proposals that hark back to tradition.

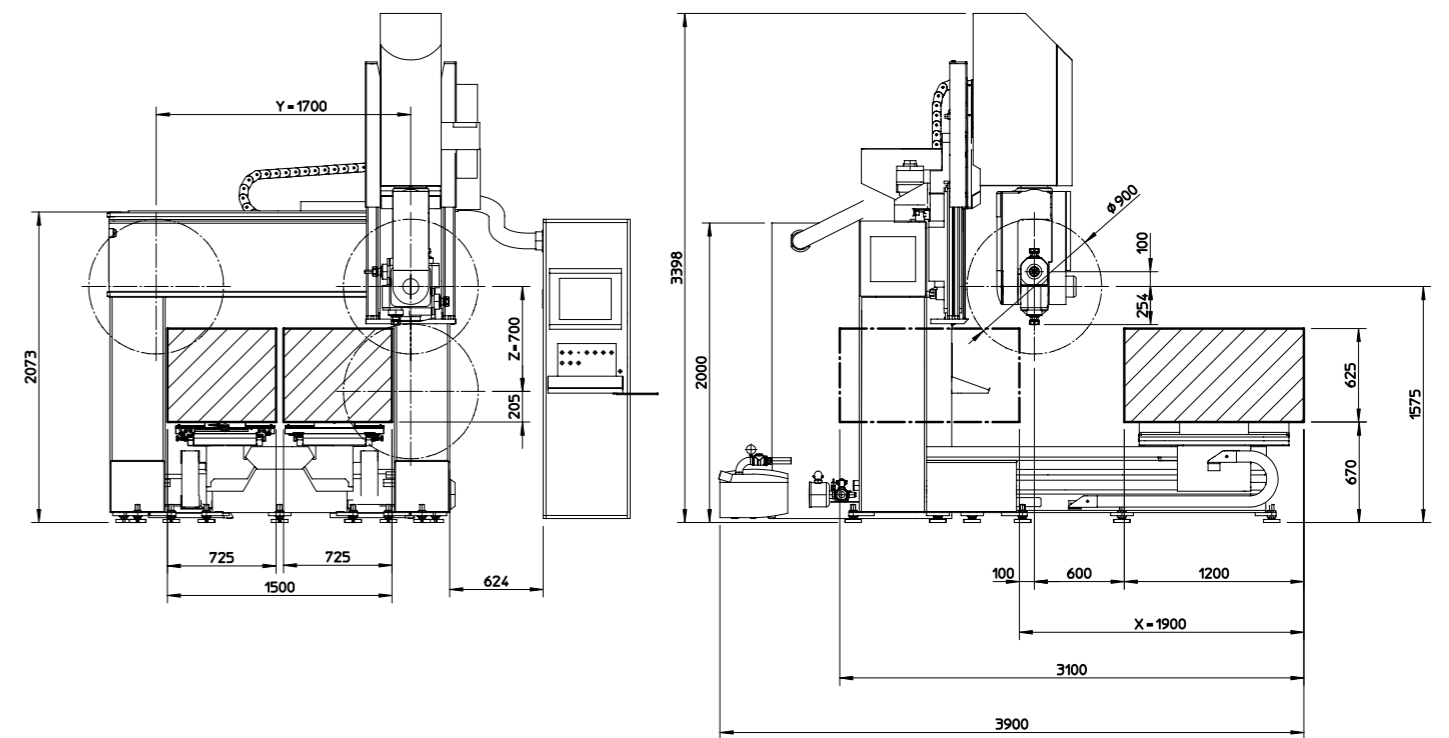


# Idea

## Technical Data

### IDEA 150 • Machining characteristics

Max workpiece width	on one table	725mm
	on two joined tables	1500 mm
Max workpiece length	on one table	1200 mm
Axis strokes	X	1900 mm
	Y	1700 mm
	Z	700 mm
Axis rotation	A	∞
	C	680° (± 340°)
Max axis handling speed	X + U	90 m/min.
Max axis speed	Y	90 m/min.
	Z	60 rpm
	A	38 rpm
	C	39 rpm

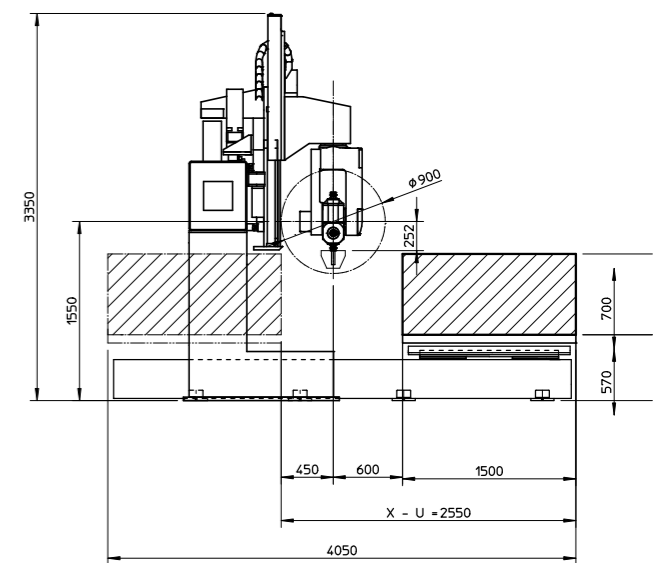
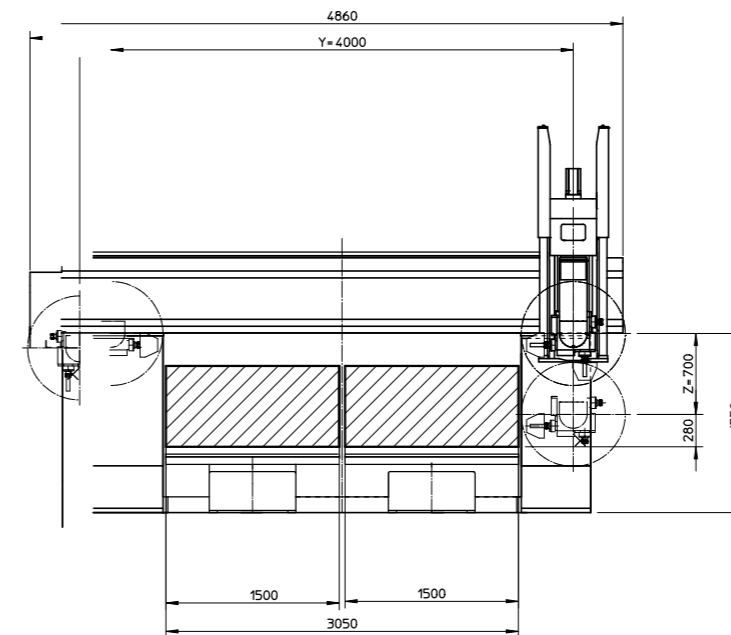


# Power

## Technical Data

### Power 300/150 • Machining characteristics

Max workpiece width	on one table	1500mm
	on two joined tables	3050 mm
Max workpiece length	on one table	1500 mm
Axis strokes	X+U	2550 mm
	Y	4000 mm
	Z	1000 mm
Axis rotation	A	$\infty$
	C	680° ( $\pm 340^\circ$ )
Max axis handling speed	X + U	70 m/min.
Max axis speed	Y	90 m/min.
	Z	60 m/min.
	A	40 rpm
	C	40 rpm





**CMS SpA** (Costruzione macchine speciali) has been in business since 1969 and now operates in various industrial automation sectors (CNC multi-axis machining centres, thermoforming machines, cutting systems, waterjets, etc.) under a single brand, CMS Industries, which includes all the business divisions and which has a sales and service network covering every global region. The wide range of products, combining quality and precision, guarantees a global range of flexible, innovative and efficient solutions to cover the different phases of the production process or the specific requirements of the customer. CMS SpA has been part of the SCM GROUP since 2002, a world leader in the production of woodworking machines, with more than 3,500 employees, a turnover of 650 million Euros and a presence in 120 countries around the world.

**CMS Balestrini** designs, engineers and manufactures CNC wood machining centres. CMS Balestrini gathers and enhances the crucial know-how gained in over 50 years of activity by the Balestrini company in the special woodworking machines field. Balestrini became part of CMS Industries in 2011, further strengthening the offer and technological capacity that pose CMS Industries as a global benchmark for product quality and service capabilities in the wood sector.

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