

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

Dec 2023

PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 84



UCIMU-SISTEMI PER PRODURRE



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SIEMENS



JOBS AND SIEMENS FOR THE FUTURE OF MACHINE TOOL

Since 1979 **JOBS** has been producing 3/5-axis high-power & high-speed machines and automated milling systems which are employed worldwide by the most advanced manufacturing industries for ultra high-tech machining. **JOBS**, with its brands Rambaudi, Sachman, Sigma and Imas, is a benchmark company in the field of high-performance machining in the aerospace, automotive, general engineering and energy fields. Thanks to the use of the most advanced design, production and quality control technologies, **JOBS** products ensure top performances in the sector. A wide network of branches and service centres guarantees an efficient support to the customers for all sales, technological and maintenance requirements.



In addition to the many technologies that the company offers, **JOBS** has always been able to count on the cooperation of one of the leading automation and CNC supplier in machine tool field, **SIEMENS**.

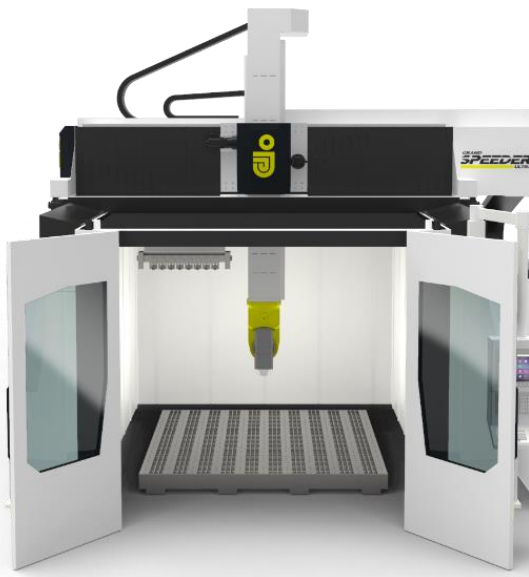
SIEMENS is a leader company in all technology areas, first developing Software and Hardware and then testing in its own production sites, without ever losing sight of the issue **sustainability**.

SIEMENS supported **JOBS** company to equip with “**SINUMERIK ONE**” the newborn model **GRANDSPEEDER ULTRA**, belonging to the most sold machine tools series Jobs GrandSpeeder.

GRANDSPEEDER ULTRA is a 5-axis overhead gantry milling centre for hi-tech materials.

With its high dynamic performances, the machine integrates design and Functional solutions specifically aimed at the machining of composite parts in aerospace applications or racing and luxury cars, at the finishing of aluminum dies, at the creation of style models in the automotive field or, in general, at cutting high-tech materials.

In addition to milling operations, **GRANDSPEEDER ULTRA** allows the use of ultrasonic tools for cutting operations on honeycomb material. The machine is fitted with an excellent enclosure ensuring efficient containment of machining wastes, high accessibility, ergonomics and safety for the operator.



It can be installed on an industrial floor without the need for specific foundations.

Axis modularity and dynamics are as follows:

- X axis 3000 + Δ 1500 mm (9000 max)
- Y axis 2700 – 4000 mm
- Z axis 1200 – 1750 – 2500 mm
- Axis speed X/Y 80 m/min - Z 60 m/min

GRANDSPEEDER ULTRA is equipped with proprietary UltraHead featuring backlash free kinematics for continuous 5-axis operations (C-axis | A-axis $\pm 270^\circ$ | $\pm 130^\circ$) and high-speed direct-drive electrospindle 25(22) kW 32(28) Nm 20000 rpm HSK-A-63.

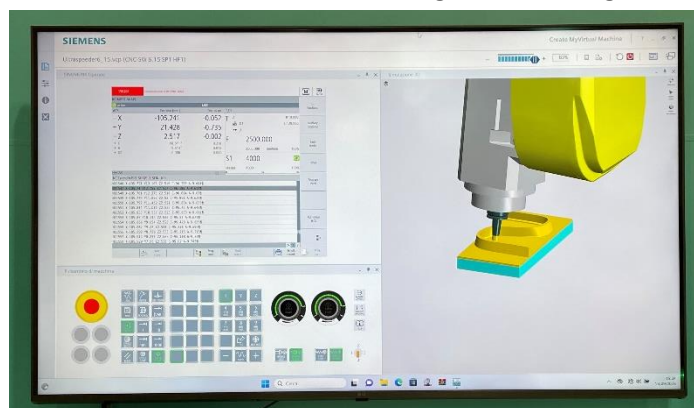
Now, **Jobs GRANDSPEEDER ULTRA** can be equipped with last generation Siemens CNC “**SINUMERIK ONE**” in order to enhance its machining performances, and several accessories, such as:

- Optical Scales
- Wide choice of worktables
- Onboard 8-pos. tool magazine / chain-type tool magazine up to 40 pos.
- Part probe / Laser probe
- Spray Mist
- Suction Hood
- Retractable Roof
- Surveillance System
- Dual work-area
- Pallet Changer



Nowadays, demands to make machine tools and manufacturing plants smart, sustainable and safety, are increasing. **SIEMENS** already offers a dedicate digitalization portfolio based on its **Xcelerator** platform.

MACHINUM is the section where you can find a wide range of software and hardware solution to make one or more machine tools smart and sustainable, all managed from a single server.



The latest SIEMENS' CNC “**SINUMERIK ONE**” and its digital native is already able to include 8 different levels of digital twin, 4 for machine builders through software application “**Create myVirtual Machine**” and 4 for the end users through “**Run myVirtual Machine**” software.

Some examples of digital applications are:

- **Manage MyMachines/Remote** for remote service accessibility and/or programming support,
- **Analyze MyMachine/Condition** for machine status monitoring and maintenance scheduling,
- **Manage MyResources/Tools** for tool monitoring and status,
- **Analyze MyPerformance/OEE** Calculation and visualization of OEE and further relevant KPIs for machines and lines
- **Protect MyMachine /3D Twin** (Full machine protection based on Digital Twin)
- **Manage MyResources /Programs** for assigning part programs to machine tools and comparing them with others,



Further additional deep information about **MACHINUM** digital portfolio, please surf on: <https://www.siemens.com/>

At the end **SIEMENS** remember that sustainability topic is always included in its products. In fact, the latest CNC **SINUMERIK ONE** includes 8 customizable energy-saving menus through **CTRL+E** functions, e.g., during coffee breaks, lunch breaks or other periods of machine inactivity, many complementary devices can be deactivated for greater energy savings.

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The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

Contact information of Piattaforma India desk:

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