

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

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UCIMU-SISTEMI PER PRODURRE



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SIEMENS AND PARPAS LOOK TO THE FUTURE OF DIGITALIZATION AND SUSTAINABILITY

SIEMENS has always been a pioneer in all areas of technology, first developing and then testing in its own production sites, **Software** and **Hardware**, without ever losing sight of **SUSTAINABILITY**.

As you know, the latest SIEMENS' CNC "**SINUMERIK ONE**" and its digital native, is the confirmation that Siemens desires to once again be at the forefront of digitization. Offering 8 different levels of digital twin, 4 for machine builders with "**Create myVirtual Machine**" software" and 4 for the end users with "**Run myVirtual Machine**" software, Siemens has a complete and modular range capable of satisfy all demands in the machine tool market.

The digital benefits of the machine builders are very important, in addition to engineering the machine remotely, the PLC, the Safety's programme machine data, cycles, operative surface and simulation, can be carried out in parallel by all engineers simultaneously, **forgetting** the old serial approach, which involved finishing one process and starting the next.

On the end-user's side, digital benefits are equally important; as testing of part program in the office before, checking the eventual collisions between tool and workpiece, getting information on the work schedule, to know the complete tool list required for the part program of the machine, 3D drawing and all the information needed to safely complete the machining, as everything has been tested in the technical office on the digital twin of the machine actually on the shop floor.

in this monthly newsletter it is also mandatory to talk about **PARPAS**, a historic company with cutting-edge technologies that also has **Siemens** as a partner.

PARPAS SpA has been founded in 1951 and together with **OMV Spa** is forming the **GRUPPO PARPAS** who deals with the design and production of high-tech machine tools for the AUTOMOTIVE, AVIATION, SPACE, GENERAL ENGINEERING AND POWER GENERATION sectors.

The history starts with the production of pantographs and duplicaters and after more than 70 years it has become a trusted partner of many important companies in the world. The Group's philosophy has always been based on three main factors: very high precision, reliability and reliability of precision over time.

PARPAS offers a wide range of products, some standard solutions some more customized solutions among which Bridge type milling machines, Gantry machines (up to 30.000 mm longitudinal axis), Moving column milling machines, moving column and fixed table, Blade / blisk /impellers machining centers, these are the models that **GRUPPO PARPAS** produce. Another important aspect of the group's philosophy is the internal production of motor spindles since 1999.



GRUPPO PARPAS has 3 production sites in Italy and 3 international branches:

PARPAS Spa site: Parpas headquarter (design, production, assembly, research & development) of medium-large machine tools, gantry and multitasking milling centers.

OMV Officine Meccaniche Venete Spa site: OMV headquarter (design, production, assembly, research & development) of small and medium-sized machine tools (including fixed portals with fixed and/or mobile table, machining centers for blisks and blades) and medium-large moving columns / boring machines.

PARPAS 2 site: for the assembly of flexible production systems and/or large machine tools.



FMS FLEXIBLE MANUFACTURING SYSTEM: **GRUPPO PARPAS** to ensure maximum productivity, offers its customers fully automated lines with pallet change for a production 24 hours a day – 7 days a week – 365 days a year. These systems machines with high accuracy, reliability and flexibility, Automatic pallets systems, precision stations inside the machine, precision loading/unloading stations, pallet automation with rack storage, interconnection and management of multiple machines with supervisor, HMI interface for pallet handling, control and management of temperatures.

MULTITASKING SOLUTIONS: The Multitasking Solutions of the **GRUPPO PARPAS** allow to centralize different types of machining in a single machine thanks to the possibility to integrate different models of rotary tables for milling and/or turning. Multiple models and sizes differ in configuration but equally ensure flexibility and reliability to customers. The wide range of configurations offers a competitive advantage in the production process allowing the users to be always on the leading edge of the market. The constant research for new products and technologies continues, aiming to meet the needs of the various industrial sectors. This allows the **GRUPPO PARPAS** to establish itself increasingly as a partner-solution and be recognized in the world market as a brand of quality and professionalism.

In addition to relying on the latest technologies and many patented solutions, **GRUPPO PARPAS** can count on partners/suppliers of the calibre of **SIEMENS**.

PARPAS was able to get full support from **SIEMENS** in completing a very important mill-turn turnkey project with its **THS100TILT** machining center for high accuracy engineering parts. Collaboration with **SIEMENS** started already in the initial stage of the project during designing the proper solution for the customer and continued during production of the machine and commissioning.

The THS100 is a T-type milling/turning center, extremely performing and reliable, which can be configured either with a mechanical tilting head or with an electro-spindle, with universal mechanical heads or with a motor spindle and rotary tables of different sizes and capacities.



PARPAS and **SIEMENS** worked together on setting up the kinematics for the milling/turning configuration and for the parametrization of the anti-collision function, taking care of all phases and proposing and supplying the customer with a high-performance machine.

Nowadays, it is time to look to the future and make machine tools smart and sustainable. **SIEMENS** already offers a platform with many applications that can make one or more machine tools smart and sustainable, all managed from a single server, applications such as

“**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, “**Manage MyResources /Programs**” for assigning part programs to machine tools and comparing them with others, “**Analyze MyPerformance /OEE**” and many more apps.

Finally, sustainability must be included in every product, 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.

GRUPPO PARPAS is not a simple supplier of a machine, but a supplier of machines responding to the needs of each single customers, offering its experience in choosing the proper machine to obtain the highest results together.

For information: www.gruppoparpas.com or info@parpas.com

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:

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