

english
version



SAND/ROB

THE SMART WAY IN FINISHING

roboticom
Advanced Robotic Applications

www.roboticom.it

made
in italy





ONE SINGLE MULTIPURPOSE SYSTEM
ABLE TO PERFORM THE OPERATIONS OF SANDING, POLISHING, TRIMMING
AND DRILLING **COMPLEX SHAPED OBJECTS OF ANY SIZE**, WITH FULLY
AUTOMATIC SWITCH FROM ONE FUNCTION TO ANOTHER.

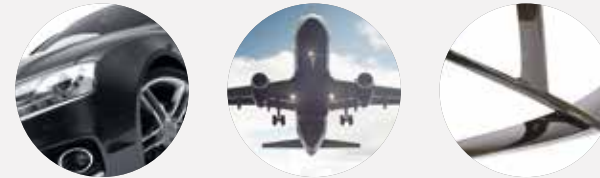


TREATABLE MATERIALS



COMPOSITE MATERIALS, CARBON FIBER,
GLASS FIBER, PLASTIC, METAL, SOLID
SURFACE, WOOD, others

INDUSTRIES



AUTOMOTIVE, AEROSPACE, TRANSPORTATION, SPORT
EQUIPMENT, FURNITURE and more



**CONSTANT HIGH
QUALITY**

REPEATABLE RESULTS



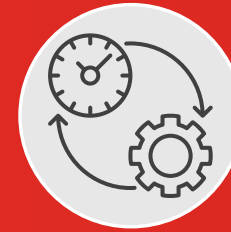
**COMPLEX AND
IRREGULAR SHAPES**

ALL MATERIALS



**BETTER CONDITIONS
FOR WORKERS**

**PROFESSIONAL
REORIENTATION**



**PRODUCTIVITY
INCREASE**

SandRob brings benefits of robotics into manufacturing processes where high manual skills are usually required but working conditions are extremely strenuous, repetitive and dangerous for human health.



**MOST INNOVATIVE
ROBOTIC SOLUTION AWARD**
ABB 15TH PARTNER MEETING

ROBOTIC INNOVATION AWARD 2018
SOLUTION AWARD, 3rd EDITION

SandRob is a concentrate of innovative technology, partially patented. The system is based on 6-axis anthropomorphic robot and it is equipped with a **technological package** and sophisticated devices:

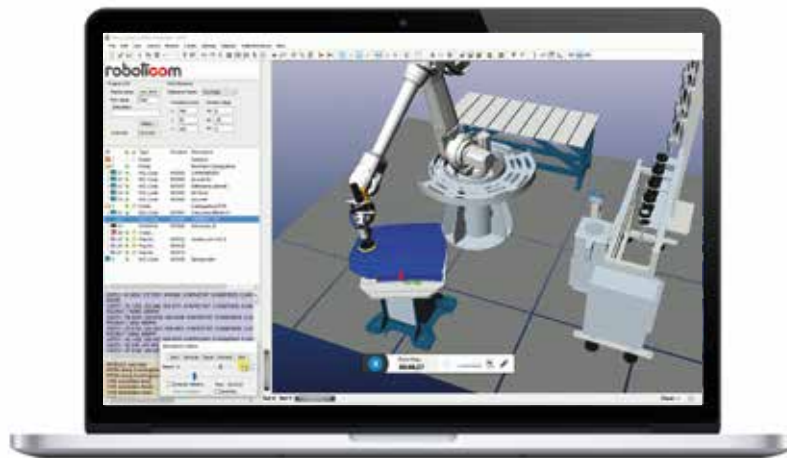
- Selectable **end-effector** according to the process (rotating sander, random-orbital sander, shaped sander, polishing buffer, trimming router, waterjet cutting)
- **Patented automatic end-effector and sandpaper change systems**, with two stores
- Electronic **speed regulation** set by the software
- **Different finishing results on the same piece**, thanks to a compensation system that allows you to manage the force of the abrasive pressure on the surface
- **Automatic re-adaptation** of the sanding process with a sensor (touch probe or laser) according to possible variations of the shape
- **Dust extraction system**
- **Feeding system** (turn table, switching positioner, conveyor, etc.)

PROGRAMMING SOFTWARE

ARPP®

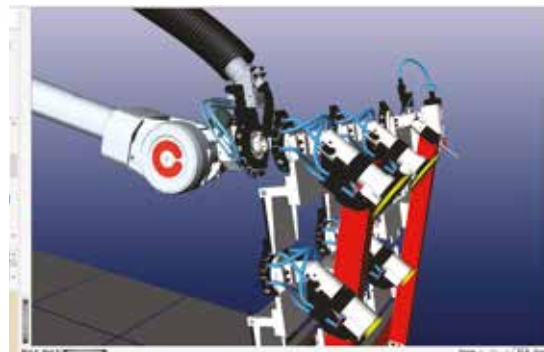
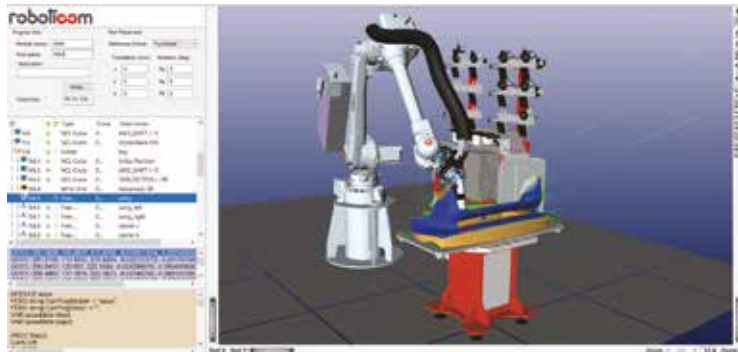
ITS USER-FRIENDLINESS ENSURES FAST LEARNING AND SHORT START-UP TIME, WITH SPECIFIC FUNCTIONS TO THE FIELD OF APPLICATION.

THE HEART OF ROBOTICOM SOLUTIONS



The biggest challenge we faced was to make **robot programming within everybody's reach**, developing a software that could be the easiest and most powerful robot programming tool on the market.

ARPP® is a SINGLE SOFTWARE PLATFORM FOR ALL OF YOUR PROGRAMMING NEEDS that allows you to completely manage the robot without the use of any additional software. With its graphic user interface, you can control all processing parameters in a functional and easy way.



The combination of a wide range of tools, developed for any kind of finishing operation, and their automated software management, represents the big added value that only ROBOTICOM can offer you.

SANDING AND POLISHING

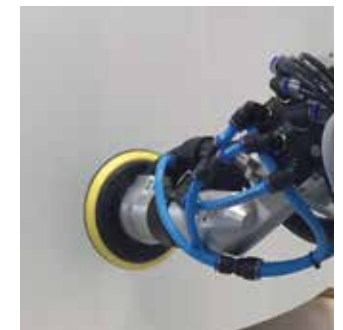


Sanding is a very delicate stage that requires the maximum precision and the greatest homogeneity of the final result. In this scenario, SandRob becomes the ideal partner for applications like:

- Processing plastic objects before painting
- Special finishing on solid surfaces of bathroom furniture
- Sanding composite material parts and objects

SandRob allows you to quickly obtain regular **polishing** results, meeting functional and esthetic needs, combining the use of different grit sandpapers and a polishing paste. The most common applications are:

- Polishing post-painted plastic parts
- Mirror polishing metal surfaces

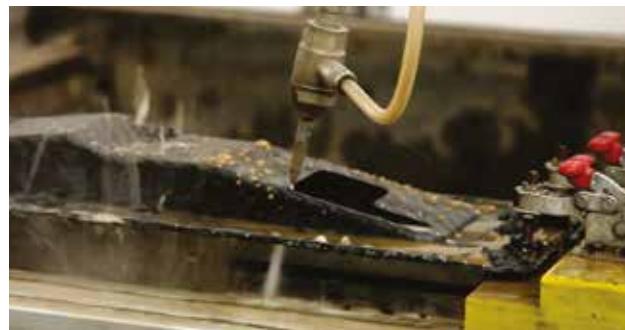


TRIMMING AND DRILLING



SandRob performs also the operations of **cutting, trimming and drilling** to manage the critical stages of contour cutting, removing burrs, drilling holes, opening slots, reaming, cutting and gluing panels.

Cutting is carried out with cutting bits or waterjet.



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Transportation - Italy

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modernspace

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Sport Equipment - China

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Advanced Robotic Applications

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