



ЯОБОТОР

The new generation robot



JOIN THE ROBOTOR REVOLUTION

ROBOTOR® specializes in the integration of multi-axis industrial robots for stone milling: the most advanced technological solution for automating the production process! Years of experience in using robots have been crucial in creating a system that allows to work in safety with exceptional quality.

"A robot for sculpture born from sculptors".



ROBOTOR TO TACKLE THE CHALLENGE OF INNOVATION

Facing the challenge of innovation means being ready to open up to automation, introducing technological tools that integrate and complement the set of human skills already present, liberate the talent of each person, respect experience and traditions.

ROBOTOR,s® robots naturally fit into the company's operational flow by eliminating tiring work phases, reducing execution times, increasing productivity and quality without the need for specific skills thanks to the OR-OS® self-programming software.

18 YEARS OF EXPERIENCE IN STONE PROCESSING

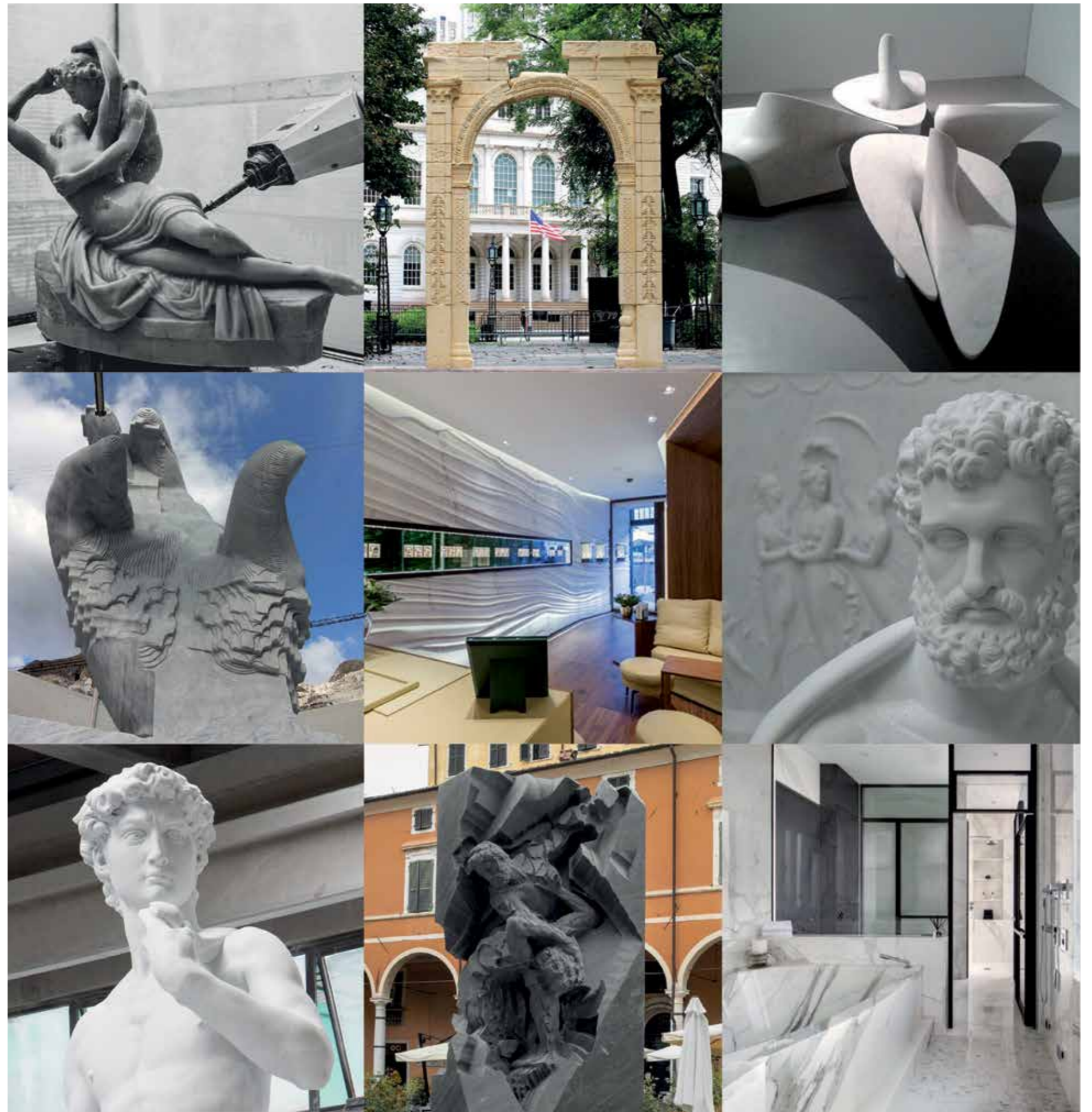
ROBOTOR® was born from the experience in the field of marble processing of the two partners who, in 2004, founded TorArt in Carrara. TorArt uses ROBOTOR's anthropomorphic robots to create works for the world's greatest architects, designers and artists.

Robots of ROBOTOR “approved” by great artists

Jeff Koons, Barry x Ball, Francesco Vezzoli, Vanessa Beecroft, Giuseppe Penone, Zaha Hadid, Maurizio Cattelan and many others have turned to and continue to turn to TorArt.

Together with them, important museums and major companies have also used TorArt for the reproduction of works of art from the past that have had an impact on the media around the world.

“*Robotor was born from a great experience in the use of robots for sculpture*”





THE ROBOTOR SYSTEM WAS BORN FROM A PRECISE WORKING PHILOSOPHY

The entire ROBOTOR® project was born from a precise philosophy result of 18 years of experience in stone processing.

The use of the appropriate tools combined with the optimization of work paths allows for machine use without interruptions 24/7, responding to the need for precise control

of working times and costs. It also allows the operator to attend to other tasks while waiting for the completion of the work.

A philosophy that has guided the development of the system in its various components.

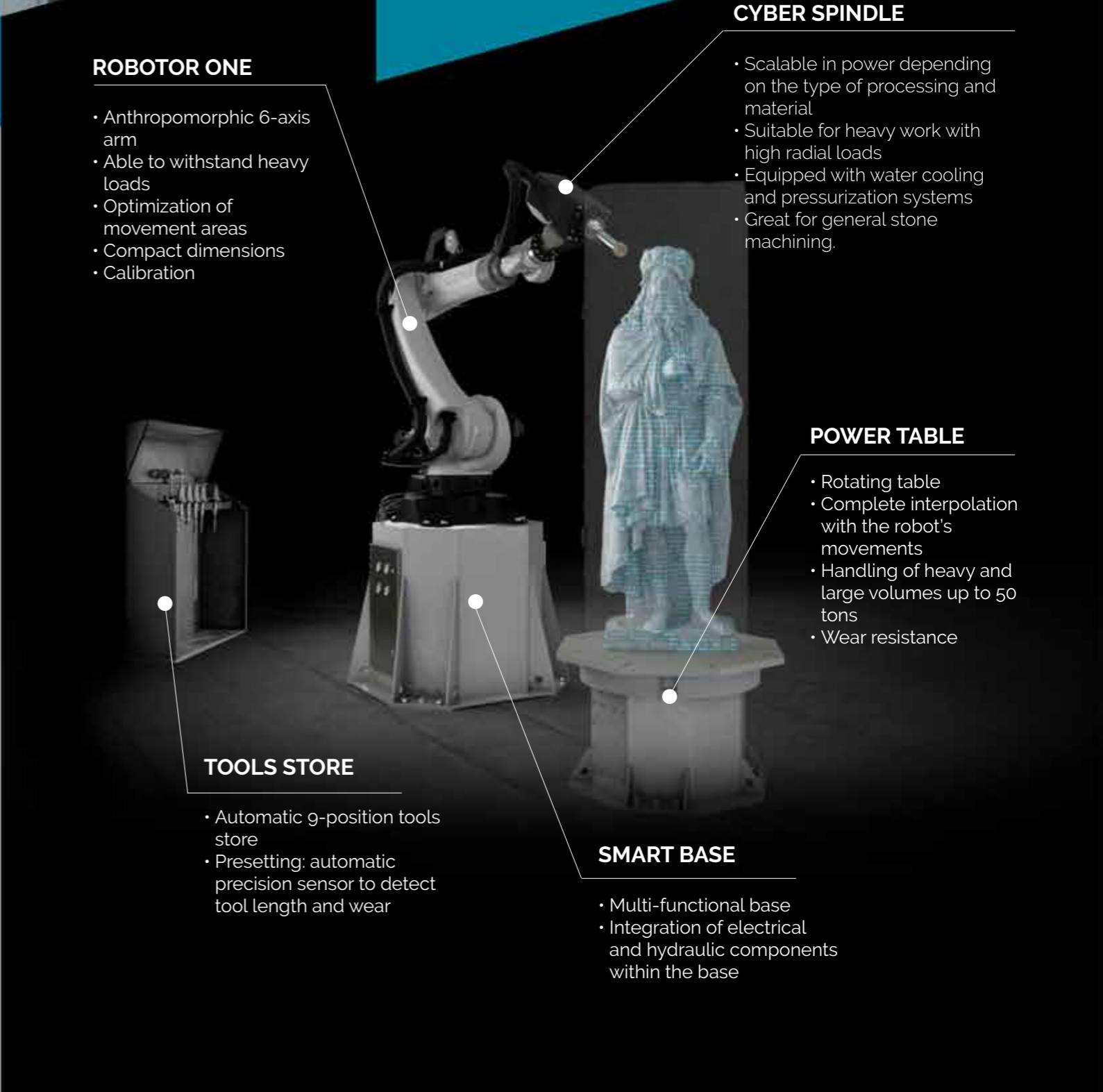


ROBOTOR ONE

- Anthropomorphic 6-axis arm
- Able to withstand heavy loads
- Optimization of movement areas
- Compact dimensions
- Calibration

CYBER SPINDLE

- Scalable in power depending on the type of processing and material
- Suitable for heavy work with high radial loads
- Equipped with water cooling and pressurization systems
- Great for general stone machining.



TOOLS STORE

- Automatic 9-position tools store
- Presetting: automatic precision sensor to detect tool length and wear

POWER TABLE

- Rotating table
- Complete interpolation with the robot's movements
- Handling of heavy and large volumes up to 50 tons
- Wear resistance

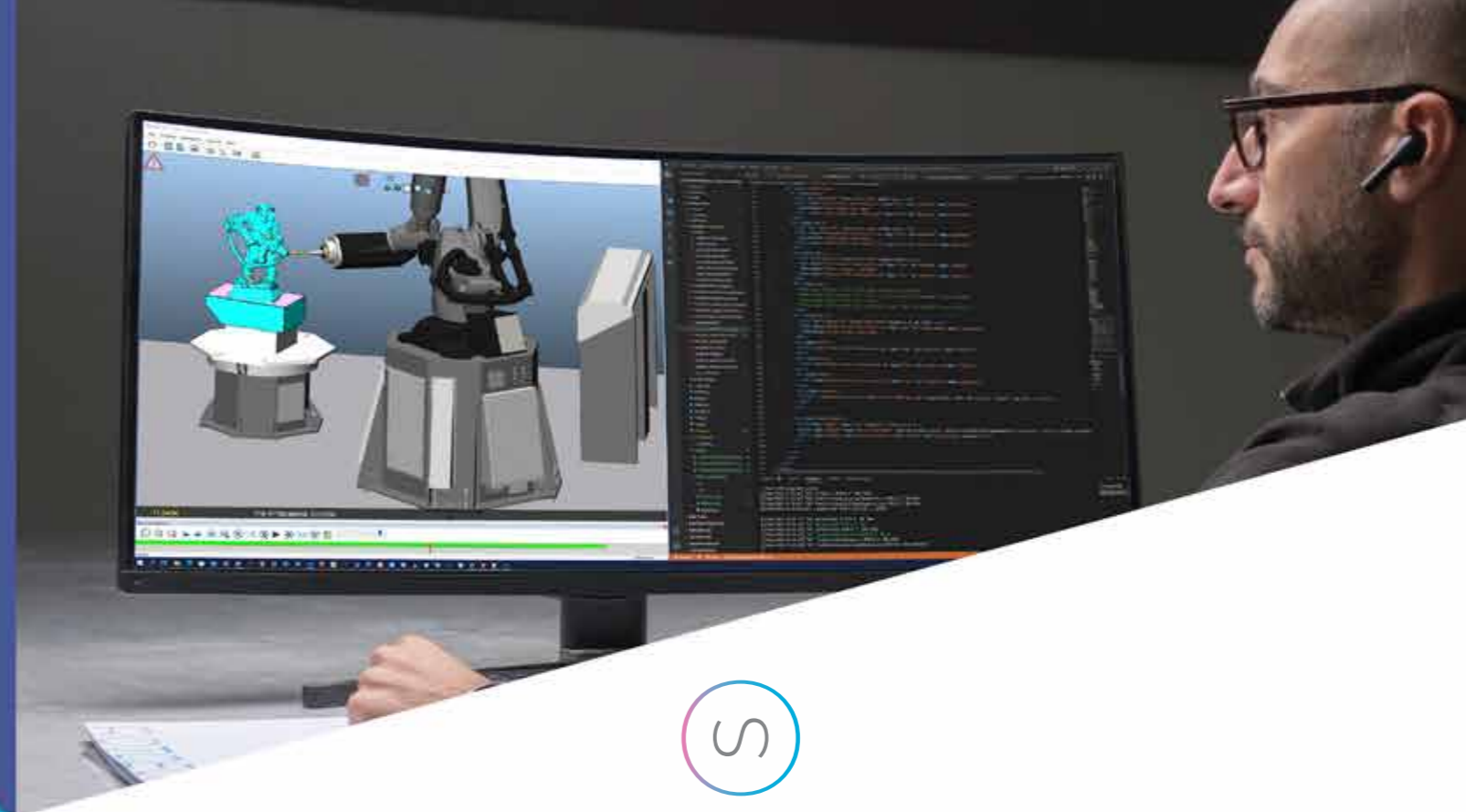
SMART BASE

- Multi-functional base
- Integration of electrical and hydraulic components within the base

OR-OS[®] is the heart of ROBOTOR[®], the revolutionary CNC milling self-programming software.

Through intuitive interfaces, without the need for specific programming skills, OR-OS[®] allows everyone to use the robot even for complex tasks. OR-OS[®] starts from a 3D file and automatically converts the model into tool paths without the operator's intervention.

OR-OS[®] can be used in "Web unlimited" or "Pay x Use" mode.



OR-OS

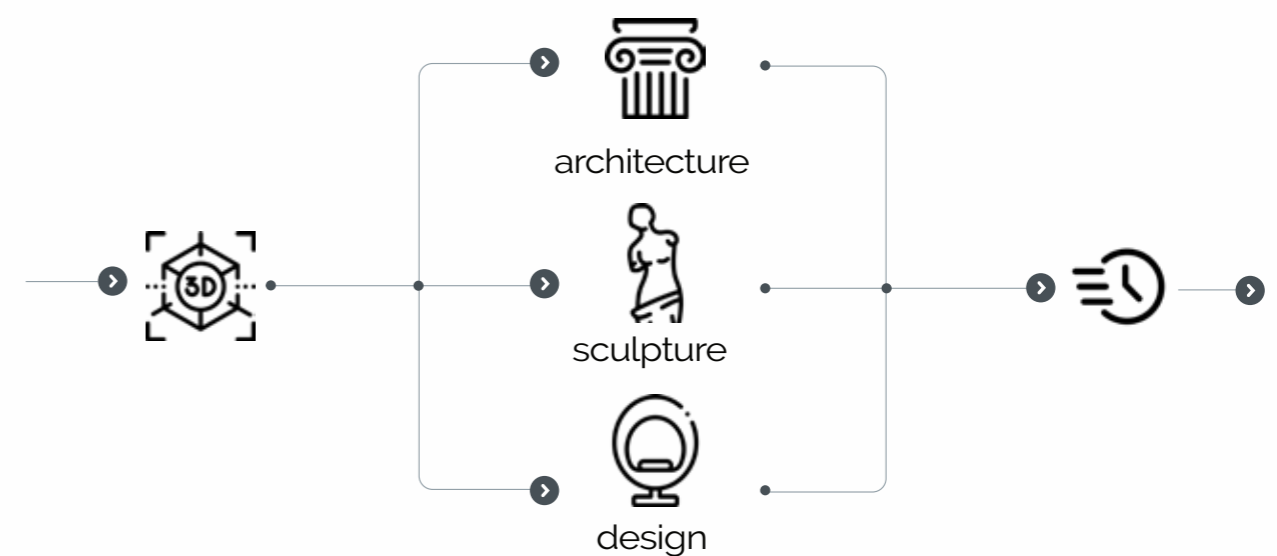
Autoprogramming Software

3 SIMPLE STEPS: THESE ARE THE ONLY ACTIONS REQUIRED OF THE OPERATOR

1° step
attach the 3D file
of the model to be created

2° step
select the type of shape
to be executed

3° step
select the type of processing
based on the timing and
quality you want to achieve



TECHNOLOGICAL INNOVATIONS FOR PROCESSING CONTROL: 24/7 OPERABILITY

All informations are collected through digital devices. The obtained datas are sent to dedicated software for the complete verification of the different operational stages. ROBOTOR's robots enable uninterrupted operation thanks to adaptive control of processing speed, tool consumption control, and more, all verifiable through the dedicated APP.



OR-Interface

Human Machine Interface

OR-OS[®] communicates with OR-INTERFACE for real-time milling control

- Controlled start of the CNC program
- Controlled tool change
- Adjustment of the robot's speed and Cyber Spindle
- Revolutionary functions: "Adaptive Cruise Control", "Resume Position", "Home" selection and intelligent "Tool list" to calculate paths



OR-Safe Control

Automatic Control Interface

Real-time monitoring of the robot and component status (effort, temperature, vibrations, etc.) and facilitates intervention in case of anomalies through alerts

ACCESSORIES

The two accessories have been designed to improve the robot's functionality: OR-OPCUA allows you to control the robot remotely, OR-CLB automatically manages calibration.



OR-CLB

Automatic Robot Calibrator

The TCP (Tool Center Point) calibration phase, essential to start processing, is carried out completely automatically.



OR-OPCUA

Machine Platform Communications

It allows you to remotely manage OR-Safe Control and OR-Interface





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ROBOTOR LITERALLY “READY TO USE”

*The ROBOTOR system is the “turnkey” solution:
robot installed and operational personnel all within a few weeks*

The experience gained with ROBOTOR's robots serving great artists and designers allows us to offer a truly plug-and-play solution: within a few weeks of the order, our customers have the robot ready for use in the company, personnel trained in the use of OR-OS® and the possibility of getting to work immediately.

Intuitive and easy to use, the ROBOTOR® robot allows the company to easily and independently explore the exceptional capabilities of the system or with the help of our personnel.



PLUG AND PLAY

A few weeks to be operational without any specific expertise



Quick delivery

We continuously update our warehouse to prepare robots ready for delivery at any time



Quick installation

The ROBOTOR system consists of easily positionable pre-prepared modules



Quick training

The ease of use that does not require any specific expertise facilitates the training time for the dedicated personnel

Our experience
at your disposal:
continuous assistance
and consultation
on processing.

18 years of experience in using robots means 18 years dedicated to meeting the requests of museums, artists, designers, architects. A unique know-how at the disposal of our customers.

Those who buy ROBOTOR become part of an inclusive community with access to a unique experience in stone processing

In addition to the standard customer service range (initial and ongoing distance training, remote diagnostics, technical support, maintenance), experience is the added value of ROBOTOR. The chat is dedicated to all our customers for specific assistance on particular contracts.

2. TUTORIALS

ROBOTOR® makes its tutorials available to fully exploit the potential of robots.



1. TECHNICAL SUPPORT

An expert and professional service to guarantee the production efficiency throughout the system's life cycle.



3. DATABASE

Large database of 3D files available for ROBOTOR® customers



6. MAINTENANCE

Extensive assistance program, including commissioning and regular and extraordinary maintenance



4. DEDICATED CHAT

The customer service experts at ROBOTOR® are always available to help you tackle any type of processing



5. WAREHOUSE

Our warehouse offers a wide range of parts available for a quick response to customer requests worldwide.



THEY SPOKE ABOUT ROBOTOR

BBC

CORRIERE DELLA SERA

Il Sole 24 ORE

domus

Focus

CBS NEWS

CNN

la Repubblica

**NATIONAL
GEOGRAPHIC**

Rai

The New York Times

The Telegraph

Artribune

ANSA

designboom

**NEZAVISNE
novine**

euronews.

TGCOM 24

ABITARE

adnkronos

exibart

LA STAMPA

the__byte.

THE ART NEWSPAPER

“ *We don't need another Michelangelo: in Italy, It's Robot's turn to sculpt*

The New York Times

“ *Robot chisel in Italy carves detailed marble sculptures like a real artist*

designboom

“ *In Carrara, the marble looks towards the future*

ABITARE

“ *A robot sculpts like Canova, 10 days for Amore and Psiche*

Focus

“ *The sculptor designs and the robot helps him, like in the Renaissance workshops where the great masters had several assistants*

la Repubblica

“ *Could robots do the work of master marble sculptors? This one is "99%" there, according to its creator.*

CBS NEWS

“ *Artists and human-like machines: Here are the zaniest robots of 2022*

euronews.








“ *... it's a mechanical arm to gather the legacy of the great masters and "heal" international controversies, starting with the one between the British Museum and Greece*

Artribune



standard setup

CHARACTERISTICS OF THE MODELS

	ONE•M	ONE•L	ONE•XL
BOT ONE			
 Load capacity	150 kg	240 kg	420 kg
Radius	2700 mm	2900 mm	3300 mm
Installed power	35Kw	40Kw	40Kw
Voltage	400 V 50 H2 4 P+M	400 V 50 H2 4 P+M	400 V 50 H2 4 P+M
Temperature	10/50 °C	10/50 °C	10/50 °C
Total weight	2500 Kg	3000 Kg	4000 Kg
Working area	6x6	6x6	6x6
Decibel	80db	80db	80db
Compressed air	150 L/Min 8 BAR	150 L/Min 8 BAR	150 L/Min 8 BAR
Internal water pressure	1/2 10 L/Min 3 BAR	1/2 10 L/Min 3 BAR	1/2 10 L/Min 3 BAR
External water pressure	1 30 L/Min 3 BAR	1 30 L/Min 3 BAR	1 30 L/Min 3 BAR
CYBER SPINDLE			
Kw	s1/s6 15/18	s1/s6 20/24	s1/s6 20/24
Nm	s1 32Nm a 4500 RPM	s1 95Nm a 2000 RPM	s1 95Nm a 2000 RPM
Speed max	12000 RPM	12000 RPM	12000 RPM
 Diameter max	625 mm	825 mm	825 mm
 Length max	300 mm	400 mm	400 mm
 ISO	40	50	50
ROTARY TABLE			
 Total weight	15 TON	35 TON	50 TON
 Volume	10 m ³	35 m ³	40 m ³
 Diameter	800 mm	1000 mm	1300 mm
 ZMax	2500 mm	3500 mm	4500 mm



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Robotor S.r.l.

Legal Headoffice

143 Via Alfio Maggiani · 54033 Carrara (MS) Italy

Factory

155 Via Provinciale Carrara-Avenza · 54033 Carrara (MS) Italy

info@robotor.it
www.robotor.it