robotcom
Advanced Robotic Applications

ORTHOPAEDIC INNOVATIVE SYSTEM

Made in Italy

ORTIS

the original O&P carving robot

english
version

ORTIS can do more than build orthoses and prostheses:

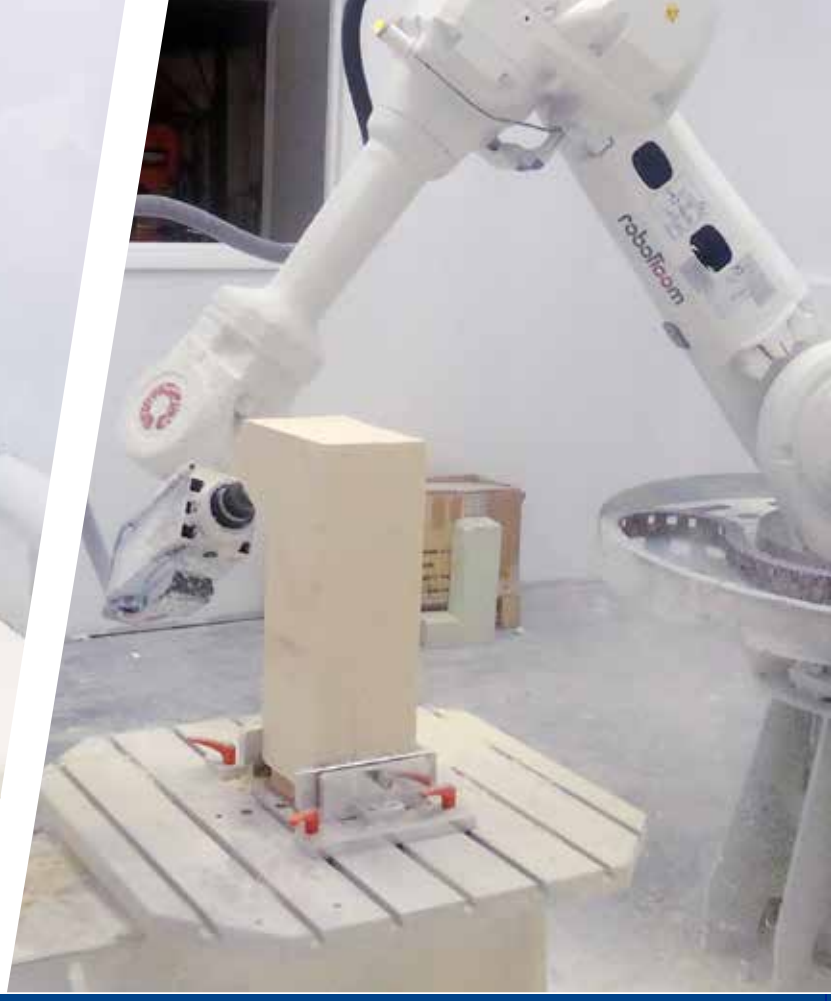
ORTIS CAN BUILD YOUR BUSINESS

"This investment in technology has helped us tremendously. Our costs of production went down and instead of making one brace every few hours, we now make five"

Vincent Benenati, CEO
East Coast Orthotic & Prosthetics

"The 7-axis ORTIS carver is a real workhorse! The versatility of the system has allowed us to do many things in our practice with CAD/CAM that I previously did not think possible."

Eric Eisenberg, M.S. CPO
Biotech Limb & Brace



ORTIS

the original O&P carving robot

AFOs, KAFOs, HELMETS, CORSETS,
SOCKETS, SEATINGS, MATTRESSES, etc

ORTIS is a robotic carving system designed for the orthopaedic market, used to produce custom-made prosthetic and orthotic models, both positive and negative. ORTIS can quickly and easily carve any 3D shape to your specifications out of polyurethane, plaster, resin, plastic, foam, wood and other light materials. With a simple interface and a small footprint you can increase the speed and quality of your orthotic and prosthetic production.

ORTIS REPRESENTS A QUANTUM LEAP FORWARD FOR THE O&P INDUSTRY

- PRODUCTION FLEXIBILITY
- OPPORTUNITY TO OPEN OR INCREASE NEW BUSINESS AREAS
- IN-HOUSE DEVELOPED ARPP® SOFTWARE: "CONTROL AT YOUR FINGERTIP"
- FIRST CARVING ROBOTIC SOLUTION INTRODUCED IN THE ORTHOPAEDIC MARKET, WITH MORE THAN 40 CUSTOMERS IN THE WORLD TODAY

KEY FACTORS & BENEFITS FOR OUR CLIENTS

RELIABILITY AND DURABILITY
More than 10 years of positive feedback on the robotic arm and components ensure to ORTIS a very high reliability

LOW MAINTENANCE COSTS

HIGH-VALUE & IN-HOUSE DEVELOPED SOFTWARE
Specific features and automatic procedures developed for orthopaedics

NO WASTE OF TIME
MINIMAL LEARNING CURVE

OPEN SOLUTION
Open source technology

NO ADDITIONAL EXPENSES FOR ADAPTING TECHNOLOGIES

GUARANTEE OF THE INVESTMENT

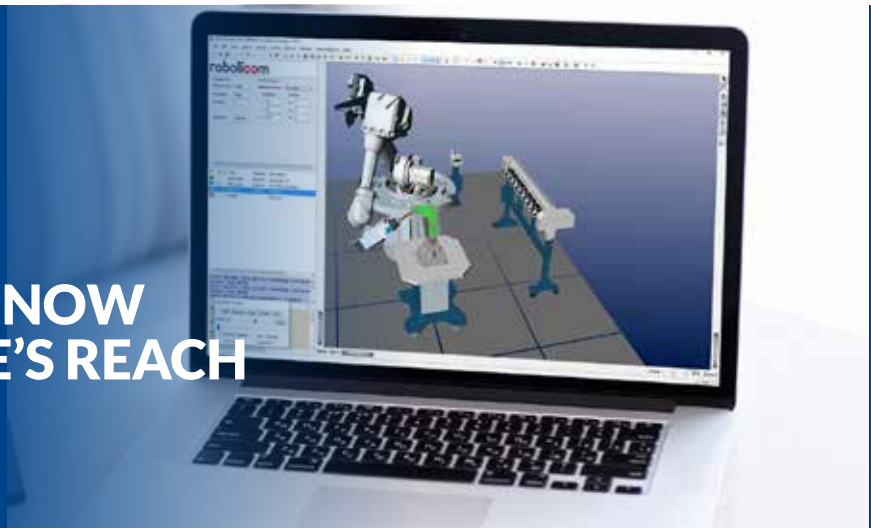
INNOVATION & CROSS FERTILIZATION
ORTIS was developed in 2006 in an R&D and cross-innovation company, where the exchange of ideas and technology leads to mutual benefts and new markets development

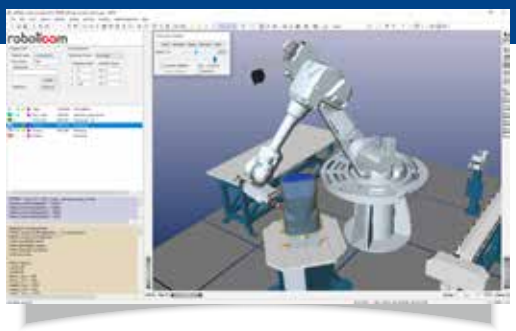
CUSTOM SOLUTIONS ACCORDING TO SPECIFIC NEEDS

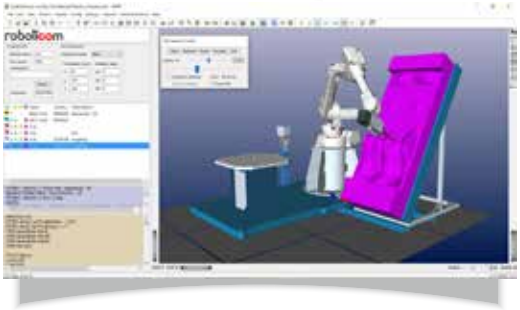
THE LATEST TECHNOLOGY ON THE MARKET

ARPP®

PROGRAMMING IS NOW WITHIN EVERYONE'S REACH







OUR PROPRIETARY IN-HOUSE SOFTWARE ARPP® IS THE ONLY ALL-IN-ONE SOFTWARE SPECIFICALLY DESIGNED FOR THE O&P MARKET.

ARPP® includes CAM functionalities that generate optimized tool paths for the orthopaedic field and it simulates the material removal operations. This unique solution ensures a quick learning time and provides simple procedures for the technicians.

With ARPP® and its FlexRemote function, ORTIS can be controlled from any location through an internet connection. This includes: supervising, operating and even running diagnostics.

ORTIS can be used with any scanner or 3D CAD software that allows to export fles in standard formats (STL, AOP, VRML, ...).

SCALABLE SOLUTIONS TAILORED TO YOUR NEEDS

With platforms ranging from small scale, entry-level manufacturing, to large scale assembly manufacturing, ORTIS can accommodate any manufacturing scenario.

	 ORTIS ESSENTIAL	 ORTIS PRO	 ORTIS ENTERPRISE
Robot Type	Anthropomorphic Robot, 6-Axis 6 kg (13 lbs) Payload on the Wrist Working Area Approximately 1000 mm (3 feet)	Anthropomorphic Robot, 6-Axis 20 kg (44 lbs) Payload on the Wrist Working Area Approximately 1600 mm (5 feet)	Anthropomorphic Robot, 6-Axis 40-60 kg (88-132 lbs) Payload on the Wrist Working Area from 2.000 to 2.500 mm (6 feet to 8 feet)
Seventh Interpolated Axis Aluminium Turntable	450 x 450 mm (18"x18") Working Plate, 60 rpm System Integrated in Containment Box	700 x 700 mm (28"x 28") Working Plate, 60 rpm Possible additional turntable or fixed table	700 x 700 mm (28"x 28") Working Plate, 60 rpm Possible additional turntable or fixed table
380V Three-Phase Electro Spindle	1.0 KW 24.000 rpm Auto Cooling System Up to ER20 Collect (Tool Shank Diameters from 2 to 12 mm) Manual Tool Change	3.6 KW 24.000 rpm Fan-Cooling Up to ER30 Collect (Tool Shank Diameters from 3 to 20 mm) Manual Tool Change	4.0 KW 24.000 rpm Fan-Cooling ISO30 Tool Holders (Tool Shank Diameters from 2 to 20 mm) Automatic Tool Change
Presetting Laser	Laser Device Automatically Measures the Tool Length	Laser Device Automatically Measures the Tool Length	Laser Device Automatically Measures the Tool Length
Tool Box			10-position toolbox for ISO30 Tool Holders The robot deposits the holder with the actual tool in the box and automatically takes the new required tool.
Work Area	Processes blocks up to 600 x 600 x 1000 mm (2 feet x 2 feet x 3 feet)	Processes blocks up to 700 x 700 x 1200 mm (3 feet x 3 feet x 5 feet) or more, with the adequate extensions for the supporting plate	Processes blocks up to 1200 x 1200 x 1800 mm (4 feet x 4 feet x 6 feet) or more, with the adequate extensions for the supporting plate
Dimensions	The Complete System: The Robot Controller is housed in an aluminum box, prearranged for chip suction. The dimensions are: 1700 length x 1250 width x 2450 height mm (6 feet length x 4 feet width x 8 feet height)	Installation on Industrial Floor Minimum Area: 3000 x 3000 x 2700 mm (10 feet x 10 feet x 9 feet) Additional Area for Robot Control Unit: 1000 x 1000 x 2000 mm (3 feet x 3 feet x 7 feet)	Installation on Industrial Floor Minimum Area: 4000 x 4000 x 3000 mm (13 feet x13 feet x 10 feet) Additional Area for Robot Control Unit: 1000 x 1000 x 2000 mm (3 feet x 3 feet x 7 feet)
Weight	A total of about 600 kg (1300 lbs)	Robot with its own base: 550 kg (1200 lbs) Turntable: 270 kg (600 lbs) Control unit: 250 kg (550 lbs)	Robot with its own base: 650 kg (1500 lbs) * Turntable: 270 kg (600 lbs) Control Unit: 250 kg (550 lbs) Tool Box: 280 kg (625 lbs)
Power Supply 380 VAC Three-Phase 50-60 Hz **	6 KVA (average consumption 1.5 KW)	12 KVA (average consumption 4.5 KW)	15 KVA (average consumption 5.5 KW)
Noise Level	<75 dB	<75 dB on a typical installation	<75 dB on a typical installation
Compressed Air	Optional, at least 3 bar	Minimum 6 bar	Minimum 6 bar

Note: ORTIS Clean Up and Vacuum System is readily available

* According to the model installed

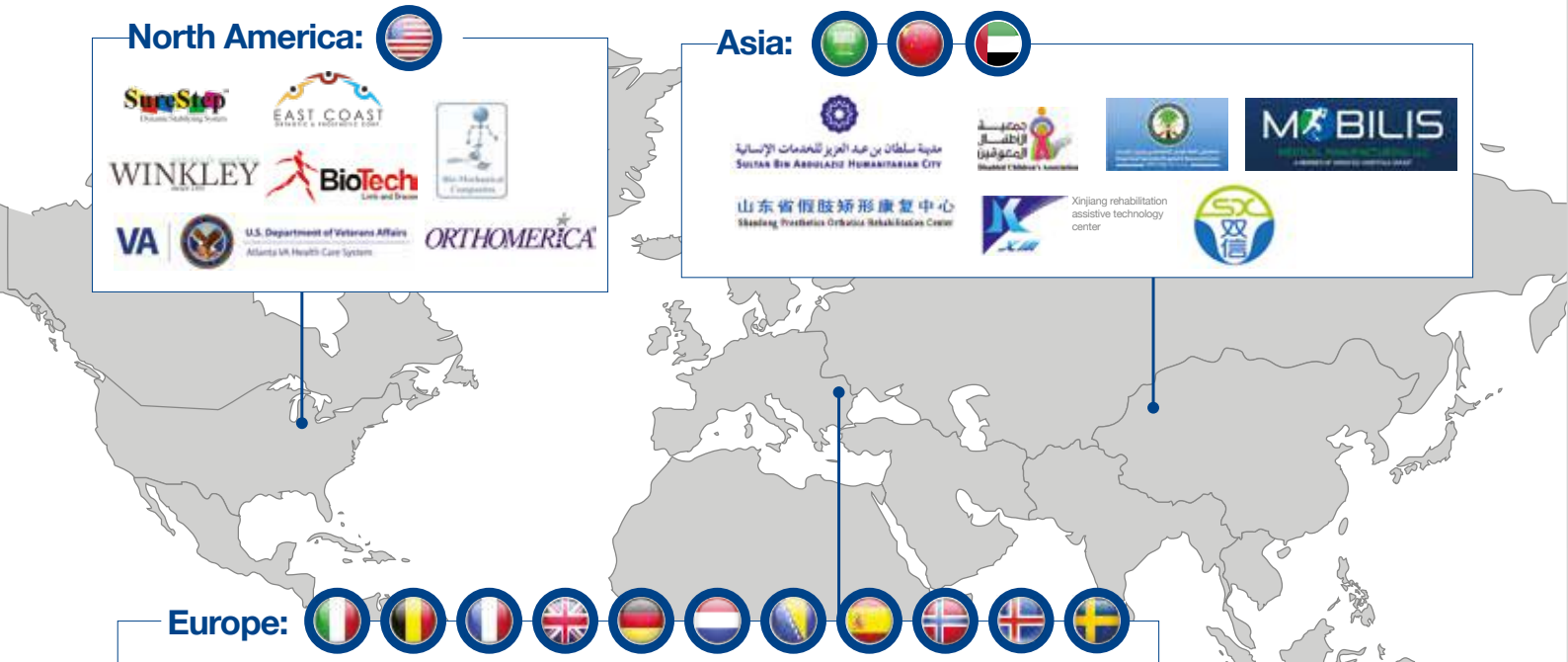
** Other voltages available on request

ORTIS + FEEDING LINE

Expand your production capabilities by adding a feeding line to any model of ORTIS!

Our programming software ARPP® generates the carving sequence according to the different loaded pieces on the conveyor belt, for a completely automated production process.

ORTIS
in the world



North America:

SureStep · East Coast · WINKLEY · BioTech · VA U.S. Department of Veterans Affairs · ORTHOMERICA

Asia:

Sultan Bin Abdulaziz Humanitarian City · Shandong Prosthetics Orthotics Rehabilitation Center · Xinjiang rehabilitation assistive technology center · MOBILIS

Europe:

ITOP officine ortopediche · vigo helping people move on · AGARRIGUE · RIZZOLI ORTOPEDIA · ORTOPEDIA RUGGIERO · ROGA · orthoeurope · IMAR · bort MEDICAL · ORTOPEDIA SINISTRA PIAVE · CHABLOZ ORTHOPEDIE · ORTOPEDIA FORESTI · Blatchford · R.T.M. ORTOPEDIA PERSONALIZZATA · University of Strathclyde Glasgow · Caruso · LIVIT ORTHOPEDIE · ottobock. · Antares · Zavod za fizikalnu medicinu i rehabilitaciju Dr Miroslav Zotović · ORTHOLUTIONS · ORTOPEDIA C.O.A. · Santal Ortopedia · ORTOIBERICA · BIOMEDICA SU MISURA · INAIL Centro Protesi · GrupoIdeo Ortopedia · interco · ORTHOPHYSICS · ORTOPEDI TEKNIKK · STOÐ Við stýðjum þig · teamolmed teknik · Ortopedica SCALIGERA

Oceania:

Perfect Again

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