

# ORTIS™

## Scalable Solutions Tailored to Your Needs

Ortis™ IRM (Intuitive Robotic Manufacture) Platform is a scalable platform tailored to meet your current and future manufacturing needs. With platforms

ranging from small scale, entry-level manufacturing, to large scale assembly manufacturing, Ortis™ can accommodate any manufacturing scenario.

### ORTIS essential

The economical standard, designed to manufacture **up to 10 units per day**.

### ORTIS pro

Efficiency and precision in manufacturing **up to 15 units per day**.

### ORTIS enterprise

The Powerhouse for scaled manufacturing **more than 20 units per day**.

Productivity Modules

### ORTIS line

**Expanded production** capabilities by the addition of a feeding line to your existing Ortis™ robot.

### ORTIS shoe last

Shoe Last module available for your Ortis™.

Additional Tools and Add On Options Available

We have a wide variety of additional accessories and tools you can add onto your existing Ortis™ to expand your manufacturing capabilities. Please discuss your needs with an associate.



*Changing What Is Possible*

TELEPHONE 949 | 238-6323

TOLL-FREE 855 | 99 Epica

[EpicaTech.com](http://EpicaTech.com)



# ORTIS™

## Specifications

### Open System

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

### System Programming

A complete license of our ARPP® software is supplied with Ortis™. ARPP® includes a 5-axis tool path generator for the robot (ARPPCAM) and a full-3D simulator for milling and material removal processes.

	ORTIS essential	ORTIS pro	ORTIS enterprise
<b>Robot Type</b>	ABB 6-Axes 13 lbs [6 kg] Payload on the Wrist Working Area Approximately 3 feet [1000 mm]	ABB 6-Axes or KUKA 6-Axes 35 lbs [16 kg] Payload on the Wrist Working Area Approximately 5 feet [1600 mm]	ABB 6-Axes or KUKA 6-Axes 88-132 lbs [40-60 kg] Payload on the Wrist Working Area from 6 feet to 8 feet [2.000 to 2.500 mm]
<b>Seventh Interpolated Axis Aluminium Turntable</b>	18"x18" [450 x 450 mm ] Working Plate, 60 rpm System Integrated in Containment Box	28"x 28" [700 x 700 mm] Working Plate, 60 rpm	28"x 28" [700 x 700 mm] Working Plate, 60 rpm
<b>380V Three-Phase Electro Spindle</b>	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
<b>Presetting Laser</b>	Laser Device Automatically Measures the Tool Length	Laser Device Automatically Measures the Tool Length	Laser Device Automatically Measures the Tool Length
<b>Tool Box</b>			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.
<b>Work Area</b>	Processes blocks up to 2 feet x 2 feet x 3 feet [600 x 600 x 1000 mm]	Processes blocks up to 3 feet x 3 feet x 5 feet [700 x 700 x 1200 mm] or more, with the adequate extensions for the supporting plate	Processes blocks up to 4 feet x 4 feet x 6 feet [1200 x 1200 x 1800 mm] or more, with the adequate extensions for the supporting plate
<b>Dimensions</b>	The Complete System: The Robot Controller is housed in an aluminum box, prearranged for chip suction. The dimensions are: 6 feet length x 4 feet width x 8 feet height [1700 length x 1250 width x 2450 height mm]	Installation on Industrial Floor Minimum Area: 10 feet x 10 feet x 9 feet [3000 x 3000 x 2700 mm] Additional Area for Robot Control Unit: 3 feet x 3 feet x 7 feet [1000 x 1000 x 2000 mm]	Installation on Industrial Floor Minimum Area: 13 feet x13 feet x 12 feet [4000 x 4000 x 3000 mm] Additional Area for Robot Control Unit: 3 feet x 3 feet x 7 feet [1000 x 1000 x 2000 mm] To increase the productivity, you can install more than one turntable/ fixed table around the robot
<b>Weight</b>	A total of about 1300 lbs [600 kg]	Robot with its own base: 1200 lbs [550 kg] Turntable: 600 lbs [270 kg] Control unit: 550 lbs [250 kg]	Robot with its own base: 1500 lbs [650 kg] * Turntable: 600 lbs [270 kg] Control Unit: 550 lbs [250 kg] Tool Box: 625 lbs [280 kg]
<b>Power Supply 380 VAC Three-Phase 50-60 Hz **</b>	6 KVA (average consumption 1.5 KW)	12 KVA (average consumption 4.5 KW)	15 KVA (average consumption 5.5 KW)
<b>Compressed Air</b>	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

**roboticom**  
BY FABRICA MACHINALE

**EPICA™**  
APPLIED TECHNOLOGIES

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TELEPHONE 949 | 238-6323  
TOLL-FREE 855 | 99 Epica  
855 | 993-7422

2753 Camino Capistrano, Suite A-101  
San Clemente, CA 92672  
EpicaTech.com