

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



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
Robot Type	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]
Seventh Interpolated Axis Aluminium Turntable	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
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 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
Dimensions	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
Weight	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]
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)
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

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