

# ORTIS Systems



**Technical Features**

# ORTISLite

## technical data

Robot type	ABB, 6 axis, 6Kg payload, max reach 800 mm
Rotating Table	integrated within the container box, the rotating table is the seventh interpolated axis of our production. 400x400 mm <sup>2</sup> alluminium working plane, 60 rpm
Electro-Spindle	0,7 KW, 24.000 rpm, 380V three-phase, air cooled, with a manual tool holder for ER20 collects, for tool shank diameters between 2 to 10 mm. Manual tool changing.
Laser Pre-Setting	ORTISLite comprehens a tool lenght presetting, laser based, used for measuring the tool lenght after a manual tool changing
Working Area	ORTISLite is able to carve up to a block of 500L x 500L x 800H mm <sup>3</sup> , thanks to a set of specifically developed fixtures (optionals)
Programming the system	our software ARPP is delivered together ORTIS for commanding the system. ARPP combines a 5 axis CAM (ARPPCAM) for obtaining the automatic code generation for the robot, plus a full 3D simulation of the milling operation
Open System	Our system can be freely used in conjunction with third-parties software devoted to the orthopaedic reverse engineering and 3D models modification.
Layout	The system is build up within a closed, alarmed container box. The controller unit is internal. The dimensions are 1800W x 1250D x 2450 H [mm <sup>3</sup> ]
Weights	box containing robot and rotating table: 600 Kg
Power supply	380VAC, three phase, 50-60Hz, 8 KVA*
Compressed Air	Optional, for the electro-spindle cleaning, 1,3 bar.



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\* for EU countries. Other voltages availables

# ORTIS16

## technical data

Robot type	KUKA or ABB, 6 axis, 16Kg payload, max reach 1600 mm
Rotating Table	the seventh interpolated axis of our production. 700x700 mm <sup>2</sup> alluminium working plane, 60 rpm
Electro-Spindle	2,2 KW, 24.000 rpm, 380V three-phase, nose type for collect ER25. Tool shank diameters between 3 to 16 mm. Manual tool changing.
Laser Pre-setting ( <i>standard</i> ) or Automatic Spindle Changer ( <i>optional</i> )	With the base configuration the tool should be changed manually. In this case a laser presetting is supplied in order to measure the tool length. Optionally you can request that the electrospindle be automatically changed by mean of a electric and pneumatic tool changer, one installed on the robot end side, the other on the electro-spindle.
ElectroSpindle-Box ( <i>optional</i> )	With the Automatic Spindle Changer, a three positions electro-spindle box is provided with the system, in order to hold and give to the robot the requested electro-spindle
Working Area	ORTIS16 is able to carve up to a block of 700L x 700L x 1400H mm <sup>3</sup>
Programming the system	our software ARPP is delivered together ORTIS for commanding the system. ARPP combines a 5 axis CAM (ARPPCAM) for obtaining the automatic code generation for the robot, plus a full 3D simulation of the milling operation
Open System	Our system can be freely used in conjunction with third-parties software devoted to the orthopaedic reverse engineering and 3D models modification.
Layout	The system can be installed in a minimum (protected) area of 3000W x 4000L x 2700 H [mm <sup>3</sup> ] for the robot, plus a 1000W x 1000L x 2000H for the robot controller. On request the system could be supplied with more than one table, to be placed about the robot
Weights	Robot with base: 550 Kg Rotating Table: 270 Kg Robot Controller: 250 Kg Toolbox : 280 Kg
Power supply	380VAC, three phase, 50-60Hz, 12 KVA*
Compressed Air	6 bar min.



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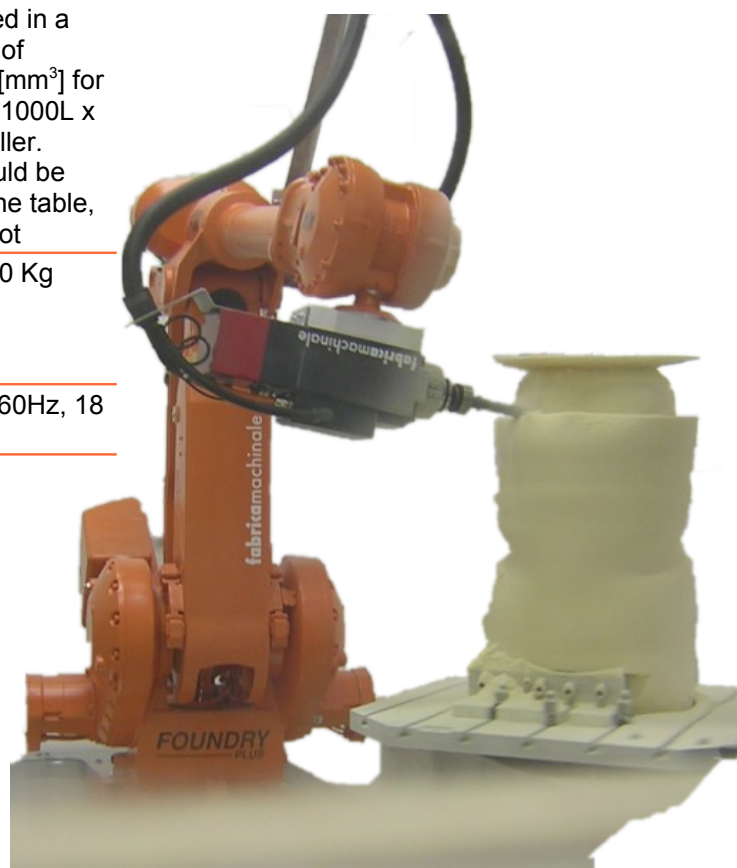
# ORTIS60

## technical data

Robot type	KUKA or ABB, 6 axis, 30Kg payload, max reach 2400 mm
Rotating Table	the seventh interpolated axis of our production. 700x700 mm <sup>2</sup> aluminium working plane, 60 rpm
Electro-Spindle	3,6 KW, 24.000 rpm, 380V three-phase, air cooled, with <b>Automatic Tool Changer</b> for ISO30 tool holders. ISO30 tool holder can accept up to a ER32 collects, for tool shank diameters between 2 to 20 mm.
ToolBox	A 9 positions toolbox is supplied with the system. The robot access the toolbox and change automatically the tool.
Laser Pre-Setting	ORTIS60 comprehens a tool lenght presetting, laser based
Working Area	ORTIS60 is able to carve up to a block of 700L x 700L x 1900H mm <sup>3</sup>
Programming the system	our software ARPP is delivered together ORTIS for commanding the system. ARPP combines a 5 axis CAM (ARPPCAM) for obtaining the automatic code generation for the robot, plus a full 3D simulation of the milling operation
Open System	Our system can be freely used in conjunction with third-parties software devoted to the orthopaedic reverse engineering and 3D models modification.
Layout	The system can be installed in a minimum (protected) area of 3000W x 4000L x 3500 H [mm <sup>3</sup> ] for the robot, plus a 1000W x 1000L x 2000H for the robot controller. On request the system could be supplied with more than one table, to be placed about the robot
Weights	Robot with base: 900..1200 Kg Rotating Table: 270 Kg Robot Controller: 250 Kg Toolbox : 280 Kg
Power supply	380VAC, three phase, 50-60Hz, 18 KVA*
Compressed Air	6 bar min.



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