OSIC orthopaedic solutions innovative concepts

TANAGRA*

Robotic machining solution for orthopaedics

(*patented system)

A new solution for the manufacturing of your 3D forms:

CAD-CAM system with manufacturing robot.
An innovative, flexible, compact, simple and successful concept
Manufacturing robot very quick, associated with a simplicity of use and an optimization of the workspace.
It permit us from a maximum of constraints bound to the multiplicity of the dimensions, the forms and materials were used in the orthopaedics.

By separating CAD and FAO every user is free to choose the software suite (scan / CAD) most in adequacy with his needs.

- Compatibility with all CAD
- Parametrized FAO, a single thing to make, to place your room in the appropriate models of manufacturing.
- Very simple and flexible solution, without regulation or change of tools. You manufacture in the continuation of an imprint of sole, a shell, a foot orthosis, a prosthesis, a knee orthosis, a leg and foot orthosis, a corset, a rigid seat braces or in foam, a mattress.
- High speed of execution (*patented strategy of manufacturing), time of manufacturing for a corset 7min, for a seat braces 12min, and 1 hour at 1:30 for a foam mattress
- We offer the most successful solution of the market with the support of big companies leaders in robotics.

STÄUBLI

Robotmaster® La CFAO pour Robots

Our global mastery of the process allows us to exploit at the best the freedom which offers a robot 6axes and to make a specific integration to your company.

As regards the assistance and the handling of the remote robot we have also successful solutions to intervene quickly.

TANAGRA

Specifications sheet

TANAGRA	BASIC SOLUTION	OPTIONS
► Scanner : Using the scanner for your needs (POLHEMUS, CREAFORM, ARTEC, MINOLTA, ..)		✔
► CAD : Software "Osic Development" with aparametric interface for corset, seat-braces, stander, femoral prostheses. Treatment and recovery scan. Software compatible with all standard files.		✔
► CAM : Software integrates machining strategy and programming trajectories of the robot in preventing risks and impacts. Machining simulation, robot and environment modeling. With simplified interface and configuration for each type of workpiece (based on a specification that defines the block size, the material being machined)	✔	
► ROBOT 1 robot (6 axis) machining (made in France) 1 robot control : during learning 1 steel robot support, floor fixing 1 aluminium rotary turntable controlled by the robot 1 mill : maximum speed of rotation 25000 tr/mn, controlled by the robot Basic tools : 2 hemispheric mills 1 electric store IP 54 380V containing the robot controller, indexer rotary turntable, spindle drive, sensor management, security control of the robot, vacuum system control	✔	
► INTEGRATION AND DEVELOPMENT Study, design, implementation, development of your solution "TANAGRA" according to the specifications drawn together (needs identification and specific development)	✔	
► MECHANICAL INTEGRATION AND SOFTWARE Implementation of the system and connections to transfer information between different computer interfaces, electrical and mechanical for your robotic solution	✔	
► CAD TRAINING		✔
► CAM TRAINING	✔	
► MAINTENANCE (1 year) Maintenance on site including calibration update software and update of machining parametrics models Assistance with remote access (remote handling of the robot and software for online assistance within 24 hours)	✔	
► COMPUTER SYSTEM Computer workplace including a graphic pro workstation with dedicated memory 1 GO, 8 Go of Ram, a screen 24		✔
► SECURITY Closed room with closed sensor or security cell with access control	✔	