

LIFE AND SCIENCE ROBOTICS



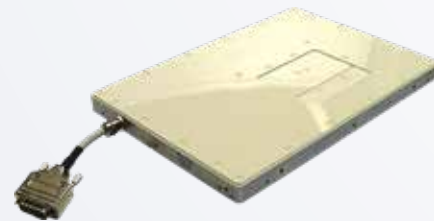
Pipetting Robot
NUCLEAR MEDICINE



IRP dose injector
NUCLEAR MEDICINE



Real time spirometer
RADIOLOGY



Contact Power Transfer Module
RADIOLOGY



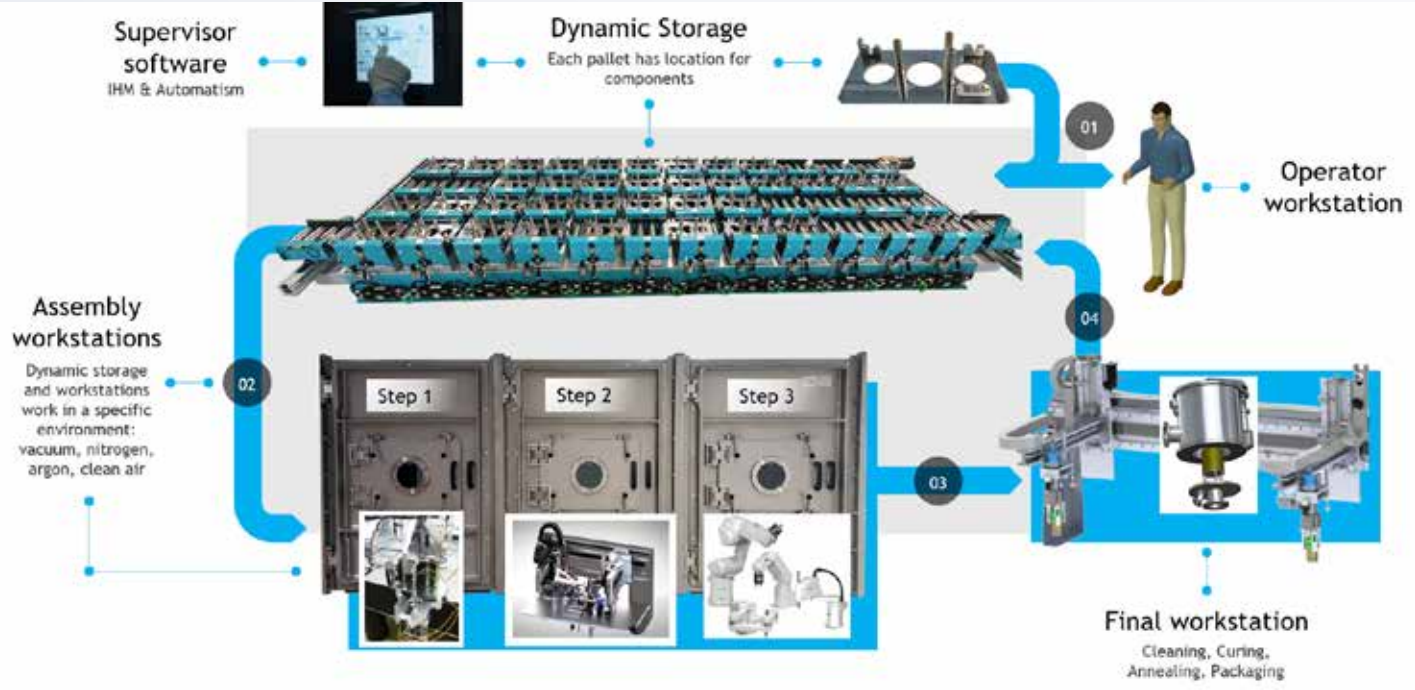
Nuclear Phantom carriage
CANCEROLOGY



Cytometry laser module
ANIMAL REPRODUCTION

PROCESS LINE

Our production lines are designed on customer specifications. We bring value added for high precision assemblies in controlled atmospheres where operations have to be done with full control of position, pressure and temperature.



OUR REFERENCES

ACTEMIUM • AIRBUS • AIRBUS HELICOPTER • ALSTOM TRANSPORT • ALSYOM • AMPLITUDE LASER
ARIANE GROUP • ARQUUS • ASML • BARCO NV • B BRAUN MEDICAL • BERTIN TECHNOLOGIES • CEGELEC
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DGA • DSO • ECA ROBOTICS • ELI • ESA • ESRF • ETIENNE LACROIX • FIVES MACHINING
GE MEDICAL SYSTEM • GSI • HORIBA SCIENTIFIC • HZDR • IMV TECHNOLOGIES • IXBLUE
JOHNSON CONTROLS • LABORATORY FOR LASER ENERGETICS • LECTRA • LIEBHERR AEROSPACE
LMU • MBDA • NATIONAL ENERGETICS • NAVAL GROUP • NEW TL • NEXANS • NEXTER
ONCOPOLE TOULOUSE • ONERA • OPTSYS • OXXIUS • PEKING UNIVERSITY • RATP • REOSC
RUAG • SAFRAN • SAFT • SAINT-GOBAIN • SAVOYE • SIEMENS HEALTHCARE • SODERN
SPIE • SYNCHROTRON SOLEIL • TECHNETICS GROUP • THALES • THALES ALENIA SPACE • TIFLEX
TIFR • TRESICAL • TRIKELL • UNIV. OF NEBRASKA-LINCOLN • UNIV. OF TEXAS • VALEO



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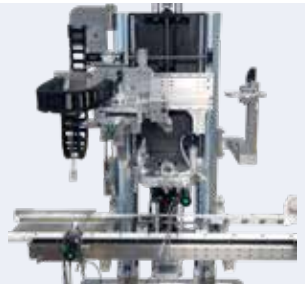
OPTICAL FIBER



PHOTONICS



ELECTRONICS PACKAGING



MICROMECHANICS

ISP SYSTEM is a comprehensive program in Precision Engineering and is specialized in Design and Manufacturing of High Precision mechanic and mechatronic equipment.

Providing highly innovative and custom solutions is our commitment. Our expertise in precision engineering helps us deliver solutions fitting customer's challenging application needs. Customized products can be offered to fully dedicated turnkey solutions, including design, testing and manufacturing. Our multidisciplinary skilled teams, specialists in their fields, have gained precision engineering knowledge.

ISP SYSTEM delivers annually up to 5 000 embedded actuators to 10 000 micro-positioning devices and opto-mechanism, 50 high precision machines, 2 000 mechatronics modules for medical devices mainly in Europe. ISP SYSTEM has been recently extending its activity all over the world.

ISP SYSTEM provides a spectrum of services including: **R&D, Design, Prototype Manufacturing, Industrialization, Mass production, Commissioning, After Sales ...**

ISP SYSTEM was founded in 1997. ISP Group is a SME of 100 skilled peoples (including its factories), 30 % of them are graduates. ISP SYSTEM is Quality certified ISO 9001 and EN 9100.



AUTOMATISM
&
ELECTRICAL CABINET

ISP SYSTEM is member of competitiveness clusters such as "Aerospace Valley", "Alpha-RLH" and "Photonics France" and "Optitec".

Our process are under **control by close loop** on positions, temperature, glue deposit and laser welder.

ISP SYSTEM machine's catalogue include process of electronics, photonics and fiber packaging. we develop special processes and instruments for research and production.

- Base granite on dampers in a welded structure
- 4 to 18 high precision axes for active/passive alignment
- 3D vision for pick & place
- Assembly by gluing, welding or laser sintering
- HMI supervisor with AI algorithm

DESIGN BASED ON FUNCTION BLOCK



Photonic assembly module



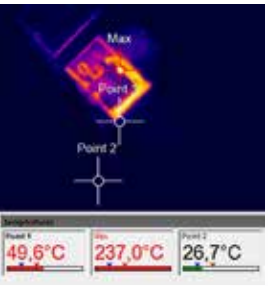
High precision
6-axis robot



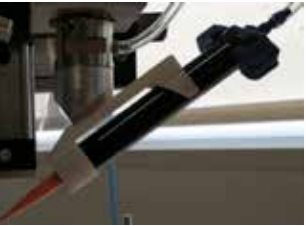
Assembly carrying



Laser Welding



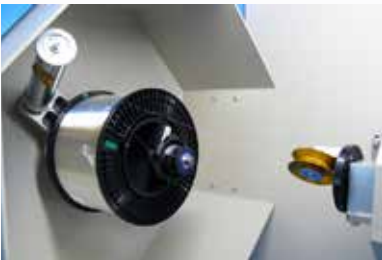
Laser sintering



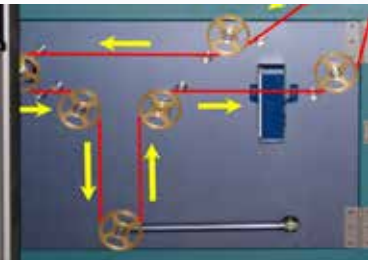
Glue dispenser



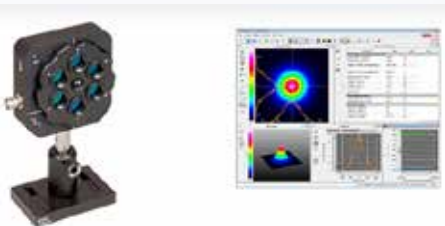
In situ confocal metrology



Fiber twisting
system on input fiber

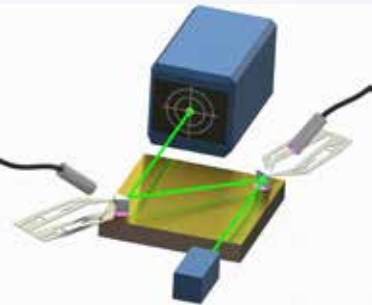


Fiber tension and
diameter measurement



In situ measurement

SOFTWARE



Active alignment



Software supervisor (HMI)



Optical fiber traverser unit

Supervisor software has 4 modes for parameters setting-up, recipe edition, manual and automatic production. The recipe tool uses customer libraries for components, final products, sequences of operation and measuring drivers. The supervisor uses Artificial

Intelligence algorithms for vision recognition, conditional assembly and user script execution. High throughput and large flexibility are combined to reach real accuracy after assembly in the micrometer range.

SPECIAL MACHINES AND MEASUREMENT SYSTEMS



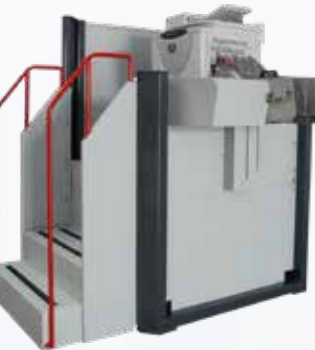
Fiber Optic
Winding Machine



Die Laser
Soldering Machine



Photonic Assembly



Automatic
Note Dispenser



Laminar
Coating Machine



Heavy Cabinet
Handling

Production lines and machines are fully adapted to customer requirements. Our machines incorporate the best technologies available to reach performances. We are able to integrated very high accuracy motion technology designed on purpose by our skilled team of engineers.

Our machine are CE certified delivered with user and maintenance manual. Remote maintenance is available through a network-free router. Maintenance contract are available to assure immediate phone assistance and short-term on-site maintenance.

TEST AND MESUREMENT SYSTEMS



Micrometric alignment robot
SYNCHROTRON



Diagnostic system
RESEARCH



HV 8-axis positioner
NUCLEAR



Raman spectrometer
INDUSTRY

ISP System has built with time a large experience in test and measurement systems with both academic and industrial research. Our competences in mechanics, electronic, photonic & real time automation allows us to design turnkey system with

custom IHM. We can design solutions for non-contact metrology of distance, diameter, temperature or optical properties.