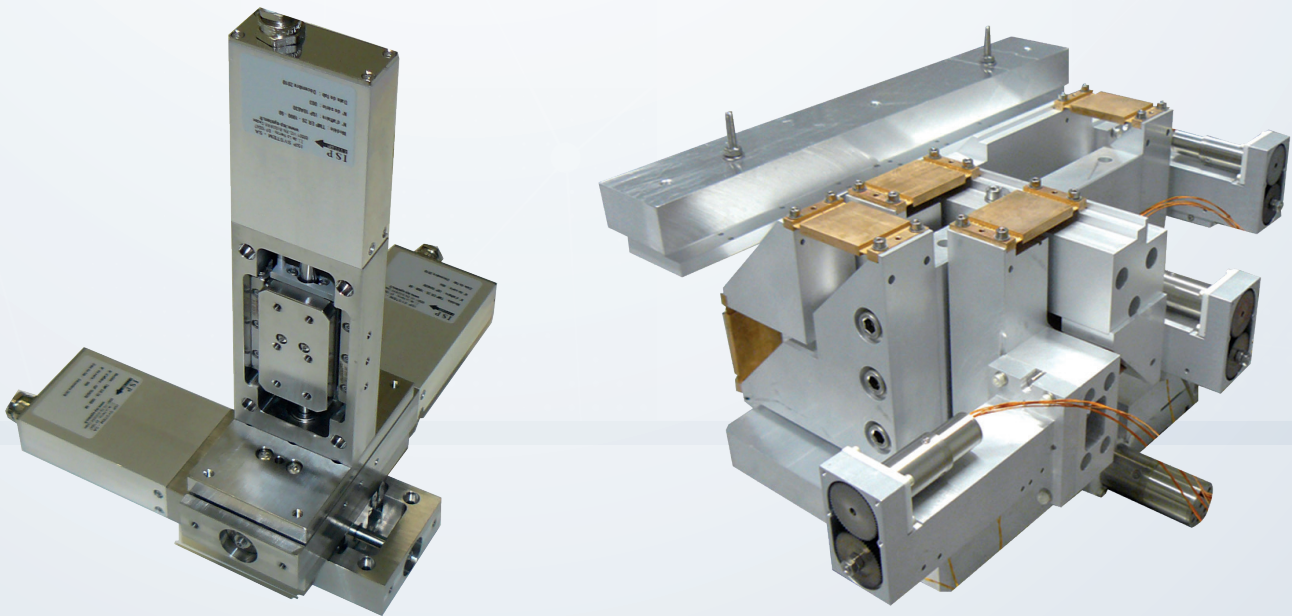




PRECISION ENGINEERING  
Vacuum and Cleanroom expert

# Micro-Nano Positioning

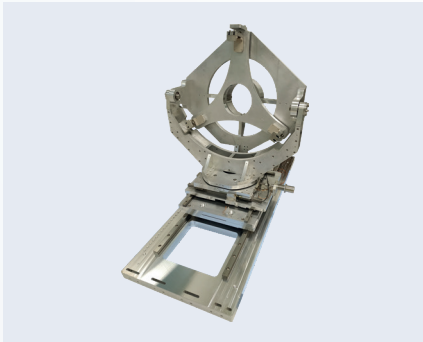
## STAGES & SYSTEMS



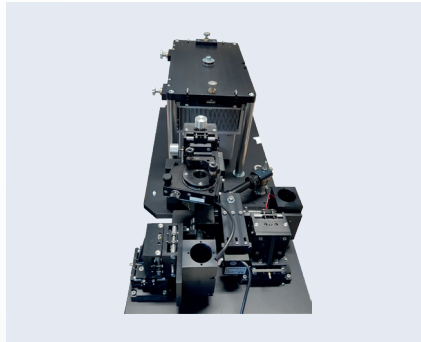
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AEROSPACE | AUTOMOTIVE | DEFENCE | ELECTRONICS | PHOTONIC  
RAILWAY | LOGISTICS | MEDICAL | NUCLEAR | SCIENCE

# A partner in **precision engineering** for your projects over 20 years: Expertise and creativity!



**MICRO-NANO POSITIONING  
& OPTO-MECHANICS**



**LIFE SCIENCE**



**HIGH PRECISION SPECIAL  
MACHINE & ROBOTIC**

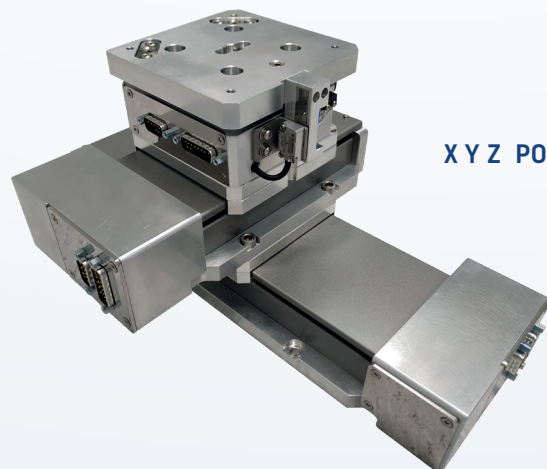
ISP SYSTEM is a comprehensive program in Precision Engineering and is specialized in Design and Manufacturing of High Precision mechanic and mechatronic equipment.

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.



**X Y Z POSITIONER**

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

ISP SYSTEM's catalogue includes mechatronic systems, translation and rotatives stages, electrical actuators.

Our products are integrated in research, photonic, measuring instrument and high precision process.

ISP SYSTEM offers optimized solutions including electronic driver thanks to mechatronics skills.

**ISP SYSTEM proposes system architecture adapted to the application:**

- Screw driven by stepper, DC or Brushless motor
- Direct drive with linear or torque motor
- Electromagnetic coil or voice coil

Stages are customized for harsh environments (vacuum, cleanroom, nuclear, space, defense,...).

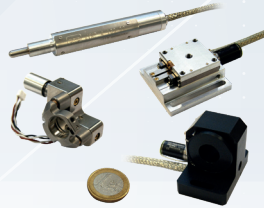
## LINEAR ELECTRIC ACTUATORS



**High load actuator**  
LASER



**High stiffness stage**  
OPTOMECHANIC



**Micro-actuators**  
PHOTONICS



**Linear actuator**  
SPACE

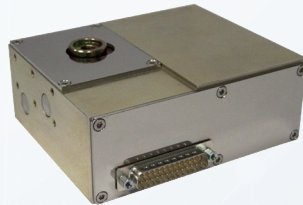


**Force actuator**  
DEFORMABLE MIRROR

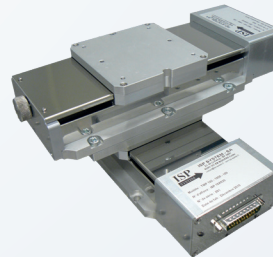
## ROTATING AND TRANSLATION STAGES



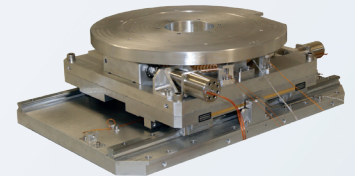
**Z stage**  
INDUSTRY



**Linear stage**  
RESEARCH

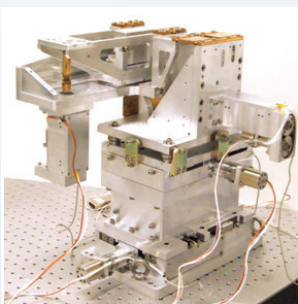


**Medium stage**  
SYNCHROTRON

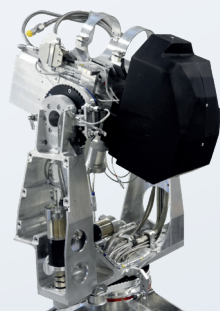


**Large linear rotating stage**  
HIGH POWER LASER

## MULTI-AXIS SYSTEMS



**UHV - KB Mirror Positioner**  
SYNCHROTRON



**Diagnostic system**  
RESEARCH



**HV 8-axis positioner**  
NUCLEAR



**Raman spectrometer**  
INDUSTRY

Options and customization are available such as reversibility/irreversibility, emergency manual operation, brake, energy management, control software... ISP SYSTEM stages can be designed or adapted to be compliant with harsh environment

such as extreme temperatures, high pressure or Ultra High Vacuum conditions, nuclear radiations (Gamma, X, neutrons), intense electromagnetic fields, external agents (salt fog, dust) or vibrations and shocks.





## OUR REFERENCES

ABB • AMPLITUDE LASER • AIRBUS • AIRBUS HELICOPTER • ALSTOM TRANSPORT • ARIANE GROUP  
ARQUUS • BARCO NV • B BRAUN MEDICAL • CEGELEC • CEA-DAM • CNIM • CNES • CNRS • DAHER AEROSPACE  
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