



Jaroslav Moravec

30.3.2016
Dubna

www.fotons.cz

FOTON, s.r.o.

- ⌘ ***founded 2000***
- ⌘ ***Czech private company (LTD)***
- ⌘ ***Development and manufacturing of special electronic devices***

⌘ Studénka 1
509 01 Nová Paka
Czech Republic

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„From system design to k delivery of final product ...”

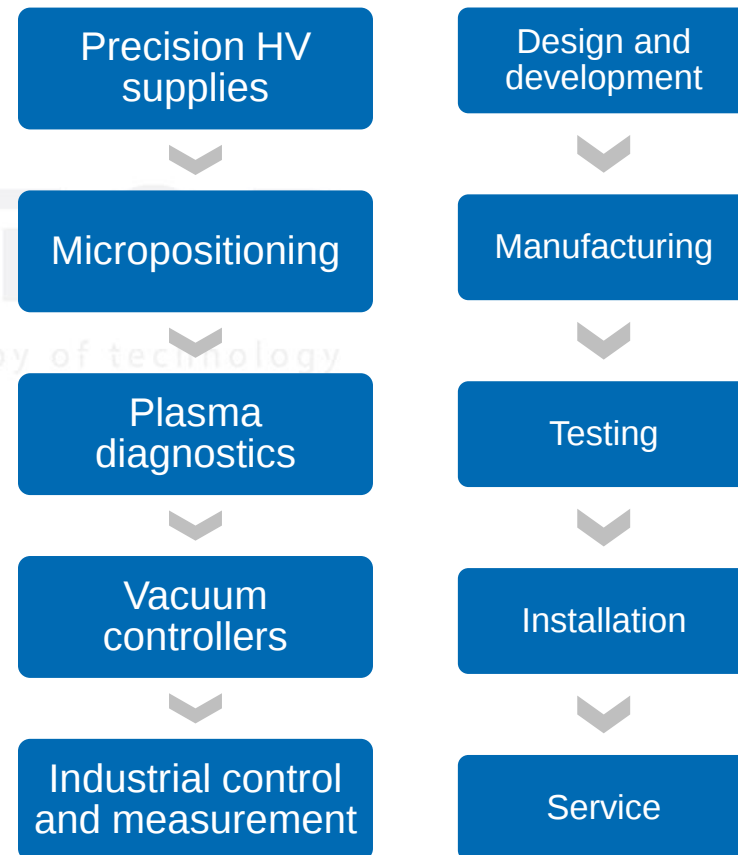
⌘ ***Founded 2000***

⌘ ***SME***

⌘ ***PIC (FP7) : 968991880***

⌘ ***Special innovative firm***

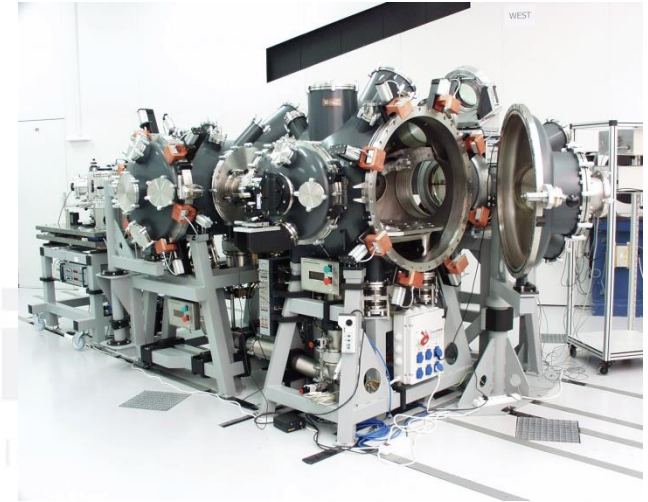
⌘ ***R&D + manufacturing***



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Company history

- ⌚ **2000** FOTON founded, instrumentation for PALS
- ⌚ **2001** X-ray laser instrumentation
- ⌚ **2002** diagnostics for tokamaks
first high voltage supplies
Multidrive16
- ⌚ first exports
- ⌚ **2007** Škoda Auto a.s.
- ⌚ **2008** Joint Institute of Nuclear Research, Dubna, RF
- ⌚ **2010** ELI – vacuum system
- ⌚ **2011** LA3NET (Liverpool): [ULIV](#), [CERN](#), [GANIL](#), [KIT](#), [CLPU](#), [HZDR](#), [DANFYSIK+FOTON](#)



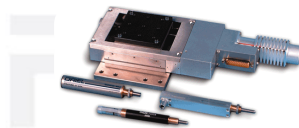
Products overview

More than 140 prototypes during 15 years

nA-100s A μ V-10s kV
 μ W-kW UV-IR



High voltage
supplies



Micropositioning



Optoelectronics



High temperature
plasma diagnostics



Special systems



Vacuum controllers



Current and voltage
power supplies



Industrial control
systems

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High voltage power supplies

Low – middle – high power, voltage up to 20kV (60kV)



HVS 04



HV 8002



HVG 2000

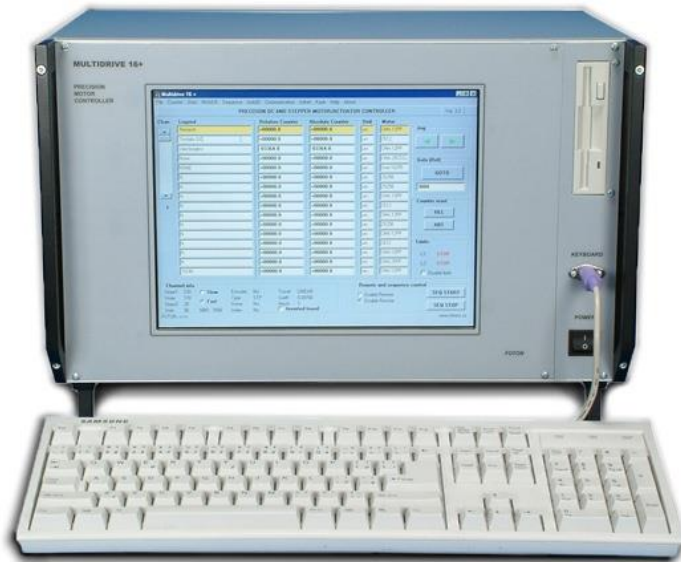


HV 5000+

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Micropositioning

System Multidrive 16+



Multidrive 16+



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High temperature plasma diagnostics

Signal processing, generators and controllers for experiments



Vacuum control systems

High reliability control systems (HW, SW) for vacuum pumping



VCU 2000

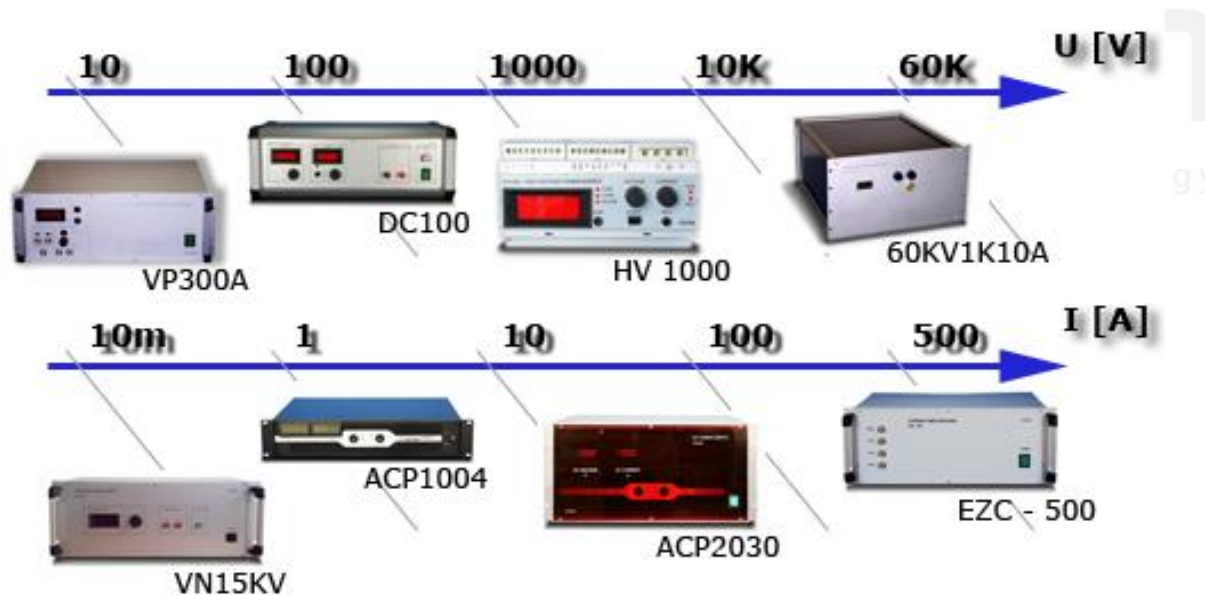


ASU 2009

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Voltage and current power supplies

DC – AC – waveform – programmable, up to 500 A, peak power 40 kW

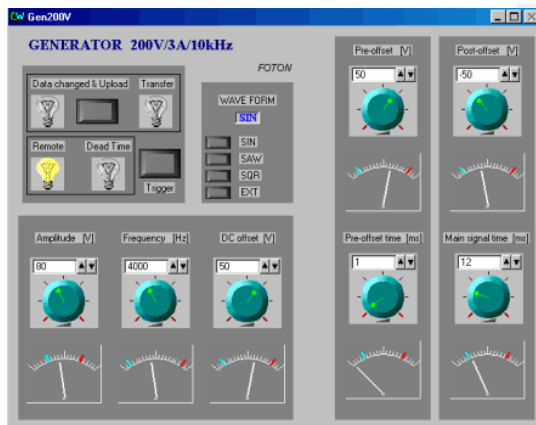


Galva 2001

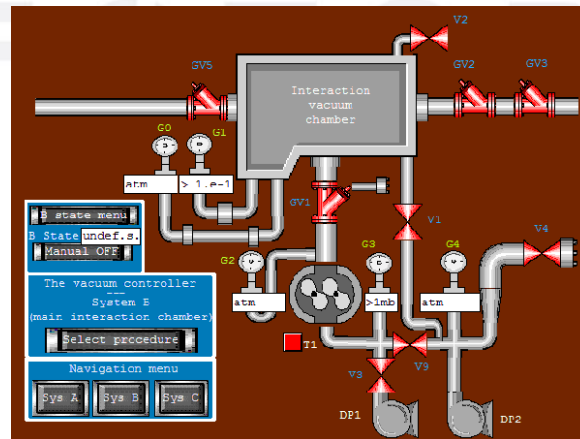
Software

Intuitive user-friendly interfaces

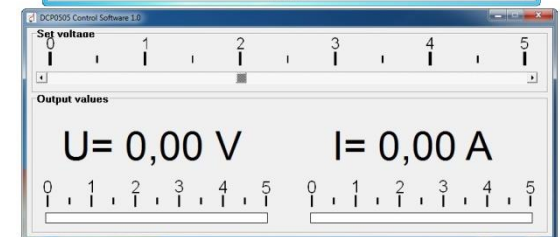
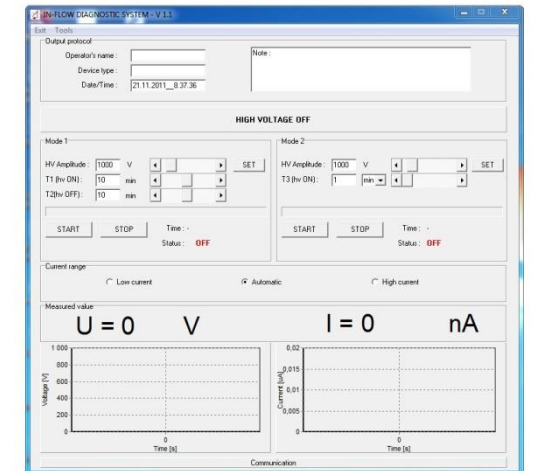
PC, PLC, microcontrollers, web-controls, OPC, logic arrays



PC SW for voltage generator



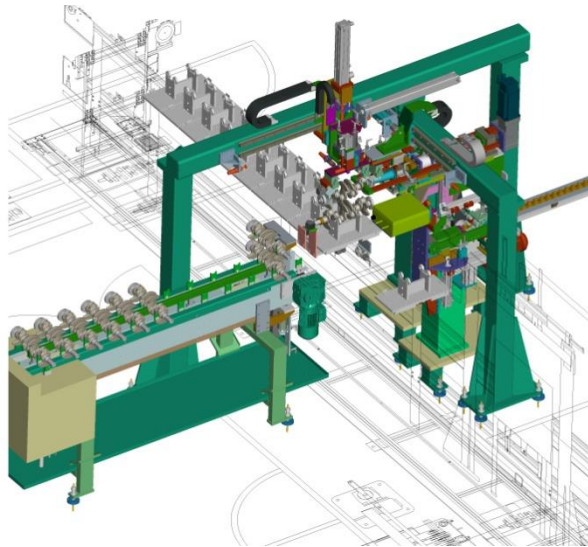
*HMI
for vacuum controller*



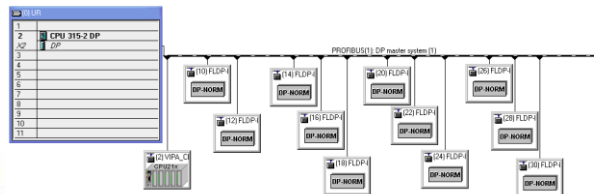
*PC SW
for power supply*

Automation and industrial process control

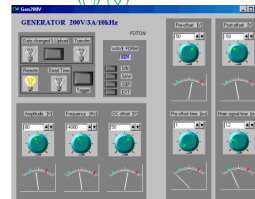
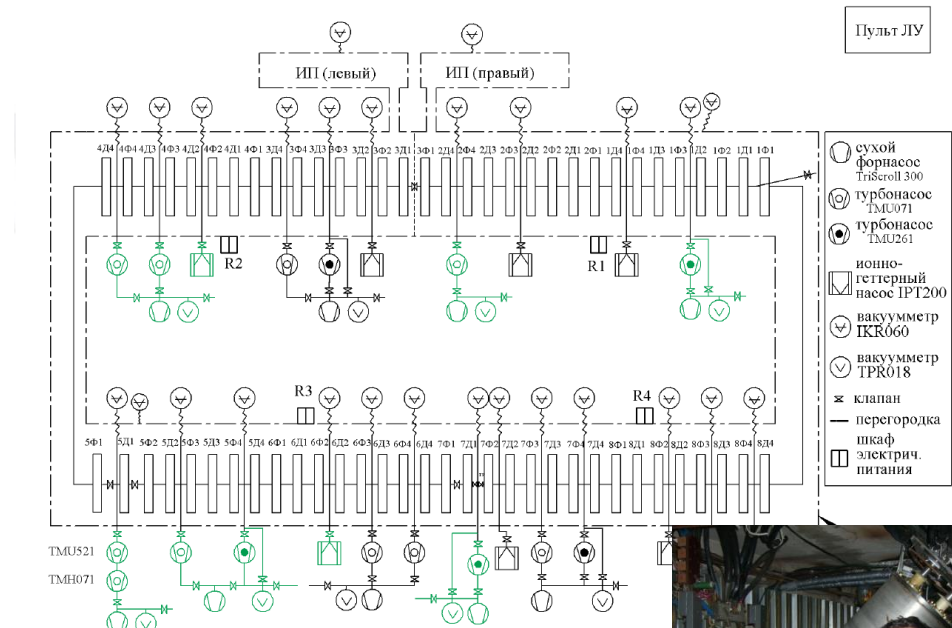
Industrial projects:



Automatic pressure station



Large experiments:



Particle accelerator



Recent products



NPA



*Piezodriver
for adaptive optics*



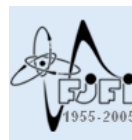
High voltage supplies



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Our European References:

- ✦ *Universite Henri Poincare, Nancy, France*
- ✦ *Instituto Superior Técnico, Lisboa, Portugal*
- ✦ *Asociacion Euroatom CIAEMAT, Madrid, Spain*
- ✦ *Universita degli studi di Padova, Padova, Italy*
- ✦ *Joint Institute of Nuclear Research, Dubna, Russia*
- ✦ *Institute of Physics, Academy of Science, Prague*
- ✦ *Nuclear Research Institute plc, Rez*
- ✦ *Skoda Auto, Mladá Boleslav*



*Do you need a **solution** ?*

*You know **WHAT**, but you don't know **HOW**?*

*Have you not **power** / **capacity**?*

...contact FOTON !!



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