



## 40-30 Engineering Solutions to improve your productivity & optimise your maintenance



### SOLUTIONS PROVIDER

Maintenance solutions & strategy  
Procedures and process  
Design & manufacturing of sub-assemblies  
Production & laboratory equipment  
Design of leak test equipment

### INTERNATIONAL PROJECTS

CERN, Geneva, Switzerland  
Laser Megajoule, Barp, France  
X-Fel, Hamburg, Germany



## SOLUTIONS FOR YOUR APPLICATION



- **Production and laboratory equipment**  
Upgrade, modification, refurbishment, automation, reliability, standard compliance.
- **Design of customized vacuum pumping station**
- **Design and manufacturing of test benches, tools and specific sub-assemblies**  
For maintenance, test, analysis, diagnostic support, training.
- **Procedures and process**  
Designing procedures to test and inspect components or equipment (NDT COFREND certified personnel according to standard ISO 9712 & EN 4179).  
Designing procedures for decontamination, ultra-cleaning & outgassing techniques.
- **Reliability of sub-assemblies and equipment**  
FMEA approach, re-engineering.
- **Advice in maintenance strategy**  
Methodology, program, frequency, level of integration.
- **Maintenance solutions**  
Workshop design, staff training, tool design, methodology & implementation.
- **Designing of maintenance procedures**





## EXAMPLES OF PROJECTS DESIGNED BY 40-30

### CERN

#### **Large Hadron Collider (LHC), Geneva, Switzerland**

- Helium leak test on QRL (27 km)
- Interconnections in the tunnel: 43 000 welds tested (354 leaks detected)
- Assembly and alignment of over 2 km of UHV pipes
- Ultra high vacuum, international environment

### LMJ

#### **Laser Megajoule, Barp, France**

- Outgassing measurement to analyse the organic pollution
- Cleaning procedure for the mirrors
- Tightness control
- Ultra clean environment

### X-Fel

#### **The European X-Ray Free-Electron Laser, Hamburg, Germany**

- Assembly of cryogenic modules
- Specific materials (ISO 5)
- Ultra clean environment
- Specific seals, parts and design

### Design of leak test equipment

- Facility to be tested
- Stainless steel pool liner of a nuclear plant
- Constraint
- Nuclear environment, depth of 12 meters, under water



Contact  
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