

BUSINESS FIELDS REPRESENTED:

Studies and development • Equipment supply • Raw materials • Additive manufacturing • Rapid prototyping • Design and manufacture of rapid tooling and / or prototype molds • Laboratory services...

STUDIES AND DEVELOPMENT:

Development/ 3D Modelling • Calculations and Sizing • Design • Eco-design • Expert knowledge • Software • Virtual prototyping • Simulation.

TYPES OF PROCESSES:

Electron Beam Melting • Film Transfer Imaging • Fused deposition Modeling • Laminated Object Manufacturing • Multi jet Modeling • Selective Laser Melting • Selective Laser Sintering • Stereolithography Apparatus.

TYPES OF PIECES:

Mold prototypes • Tools • Functional parts • Appearance prototype • Industrialisation Prototype • Functional Prototype.

FINISHING & FUNCTIONALIZATION:

Surface coatings • Surface treatments.

EQUIPMENT SUPPLY AND RAW MATERIALS:

Machining centres • Electron Beam Melting • Film Transfer Imaging • Fused deposition Modelling • Laminated Object Manufacturing • Multi jet Modelling • Powders • Resins • 3D Scanners • Selective Laser Melting • Selective Laser Sintering • Stereolithographic Apparatus.

COMPONENTS & SUBASSEMBLIES:

Energy accumulation • Special wiring and connectors • Special wiring and Networking • Sensors • Active Components • Electronics Components • Passive Components • Distribution • DSP • Complex assemblies and subassemblies • Optical fiber • Cables • Microprocessors • Communication and networking...

DESIGN & INNOVATION:

Design and engineering office • CIR : accreditation research tax credit • Design • Industrialization • Software engineering • Modelling • Prototyping • Measurements • Tests • Test beds • Tools and development systems • Industrial property • Research and Development • Simulations.

PRODUCTION EQUIPMENT:

Automation • Manufacturing and assembly of components • Process engineering and industrialization • Components storage • Control systems and production testing.

SOFTWARE AND EMBEDDED SYSTEMS / CONNECTED SYSTEMS:

Mass data analysis • Specific architecture • BIOS • High performance embedded computers • "Intelligent" sensors • Complete software packages • Real-time & multimedia imaging • Embedded Linux • CAD and simulation software • Specific communication software • Remote management software • Free software • Formal methods • Formal languages for software and embedded systems / communicators • Software development methodology • Middleware • Workshops and embedded tools for software development • Industrial and ad hoc PCs • Sensor networks • Information Security Systems • Embedded Subsets • Software subsets • Operational safety • Embedded systems • Real-time systems • Internet and web 2.0 technologies • Information processing • Digital signal processing • Digitalization.

ELECTRONIC MEASUREMENT & TESTING:

ATEX • Test beds • Sensors and perception • CEM • Equipment & Software • Laboratory Equipment • Electronic Measurement Instrumentation • CE marking • Measurement • NF standards • UL standards • Test - Testability.

SUBCONTRACTING & RELATED SERVICES:

- Adaptation
- Printed circuit boards
- Complete electronic units control
- Input components control
- Material subassemblies control
- Complete electronic assemblies studies
- Components Research
- Material subassemblies research
- On-demand components manufacturing
- Electronic assemblies manufacturing
- Installation and commissioning of complete electronic assemblies
- Integration
- Lean manufacturing
- Maintenance of complete electronic assemblies
- Maintenance of material subassemblies
- Implementation of software subassemblies
- Implementation of material subassemblies
- Reconditioning of complete electronic assemblies
- Components reconditioning
- Complete sub-assemblies reconditioning
- Reconfiguration and development of software
- Sourcing
- Supply-chain.

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ECO-DESIGN / ENGINEERING:

Modeling, calculation • Design • Electronics • Geometry • Instrumentation & testing • Mechanics • Methods • Optimization • Interior/exterior noise reduction • Virtualization.

STRUCTURES:

Integrated wiring and sensors • Engineering and control • Maintenance, repair, testing • Weight • Active structures and control • Smart structures • Health monitoring • Specific manufacturing techniques • Transformation reconfiguration • Manufacturing techniques • Transformation/ Reconfiguration.

PROCESSES:

Hardware Data • Processing & storage • Instrumentation • Scientific & industrial IT • Software.

WATER MANAGEMENT:

Data acquisition and control • Water efficiency • Water Management Systems • Recycling • Drinking water treatment • Waste water treatment.

RAW MATERIALS MANAGEMENT:

Metering devices and waste reduction • Selective collection • New raw materials with improved functionalities • Processes and raw material efficient systems • Waste reduction • Recycling • Sorting systems.

GAS MANAGEMENT:

Data acquisition and control • Leak detection • Recycling control & management • Management of compressed air • Emissions treatment.

ENERGY EFFICIENCY FOR INDUSTRIAL BUILDINGS:

Connected factories / buildings • Air-conditioning / refrigeration • Smart meters, remote reporting & maintenance • Energy control • Energy diagnostics for Industry • Lighting • Green IT • Software • Industrial M2M, IOT • Engines • Energy optimization for transportation systems • Heat recovery • Smart buildings • Smart grids • Storage and Energy Conversion.

LOCAL ENERGY PRODUCTION & COGENERATION:

Biofuel • Biomass • Wind power • Hydrogen industry • Geothermal • Water energy • Photovoltaics • Heat pumps • Solar thermal energy.

MECATRONIC SYSTEMS ENGINEERING:

CAO and modelling of mechatronic systems • Compliance with standards and regulations • Ecodesign • Assembly facilitation • Human-machine interfaces / ergonomics of autonomous mechatronic products • Management methods and tools • Test methodologies • Modelling of the design of mechatronic products or equipment • New energy sources and energy management • Energy consumption optimization • Energy consumption optimization in the production process • Cost optimization • Intellectual Property • Quality • reliability of mechatronic systems • Weight and volume reduction • Robotics • Dependability.

ELECTRONICS / ELECTROTECHNICS:

Actuators • Automation • Sensors • Printed circuit boards and new interconnecting technologies • Wired communications • Wireless communications • Power electronics • Thermal management • New components – Microelectronics • Optoelectronics • Electronic protection circuits • RFID • Programmed systems - FPGA • Security technologies.

SOFTWARE / INFORMATICS:

Android for embedded systems • C for embedded • Microsoft Embedded development • Software project management • IHM for Microsoft Embedded • Android human Machine Interface • Linux Human Machine Interface • Java for embedded systems • Linux on ARM architecture • Linux on FPGA • DO178C standard • EN50128 standard • RTOS on ARM architecture • Image processing for embedded systems • Signal processing on DSP • WEB server for embedded systems.

MECHANICS:

Adjustment • Assemblies and sub-assemblies • Boilers • Cutting • Electro-mechanisms • Stamping • Forge & Stamping • Studies / Design / Engineering / R&D • Equipment manufacturing • Tools manufacturing • Machinery manufacturing • Foundry • Drilling • Forming • Milling • Industrial marking • Precision mechanics • Mechanical welding • Micro-mechanics • Modelling • Molding • Trading of mechanical products • Painting • Folding • Rectification • Machinery Repairing and Installation • Sawing • Blowing • Tapping • Sheet metals • Lathing • Electrolytic and surface treatments • Thermal transfer • Machining • Screws.

COMPOSITES AND PLASTURGY:

SMC/BMC Compression • Drape forming • Filament winding • Stamping – Hot Forming • Extrusion – Pultrusion • Continuous impregnation • Injection • Micro injection • Contact and projection Molding • Plastronics • Polymerization • Prototyping • RTM - Resin Transfer Molding • Thermoplastic welding • Sandwich Structure • Over molding • Thermoforming • Machining – Assembly.

ROBOTS AND INDUSTRIAL CONTROLERS:

Industrial robots manufacturers and distributors • Machines manufacturers and distributors • Professional service robots manufacturers and distributors • Suppliers of the turn-key ready plants • Engineering and design offices • Development • Industrialization • Software Engineering • Modeling • Prototyping • Simulation • Automation • Design • Software • IT • Motors • Propulsion • Embedded Systems • Pneumatic Systems...

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SENSORS, TEST AND MEASUREMENT:

Optical sensors • Measurement systems for laser characterization • Measurement and analysis systems for optical configuration • Optical measurement systems

LIGHTING AND ENERGY:

Lighting • Photovoltaics and renewable energy.

IMAGING:

Applications • Components • Displays • Display elements • Display assemblies • Monitor assemblies • Image processing.

BIOPHOTONICS AND MEDICAL ENGINEERING:

Applications • Biotechnology • Environment and nutrition • Medicine • Methods and techniques • Microscopy and imaging • Spectroscopy • Handling techniques • Therapies.

LASER AND OPTOELECTRONICS:

Laser components • Optoelectronic components • Laser system components • Laser diodes • Electro-optics • Crystal lasers • Fiber lasers • Gas lasers • Solid-state lasers • Light-emitting diodes (LEDs) and components • Optics and laser software • OLEDs • Acousto-optics • Optomechanics • Safety / protection against laser radiation • Non-coherent light and radiation sources • Placement and assembly systems • Optical systems • Optoelectronic tubes.

OPTICS :

Optical transmission components • Processed components • Crystals • Optical lenses • Design software for passive optical components • Raw materials • Diffractive optics.

SERVICES:

Optical design and engineering services • Optics design and lighting • Systems consultants • Development of applications / laboratories • Second-hand equipment • Maintenance and services for laser systems • Processing centers • Contract manufacturing • Contract Research and development.

SYSTEMS BY APPLICATION SECTORS:

Systems for imaging and machine vision • Systems for solar production • Systems for other sectors • Systems for toolmaking and production • Systems for plastics processing • Systems for research and laboratory equipment • Systems for the lighting technology • Systems for sensors technology • Systems for the aerospace industry • Systems for the automotive industry and OEMs • Systems for biophotonics, life sciences and pharma • Systems for security and defense • Systems for the semiconductor industry • Systems for printing technology and graphics • Systems for electrical engineering • Systems for electronics • Systems for the media and arts industry • Systems for environment engineering • Systems for data processing and information technology • Systems for production and energy storage.

LASER SYSTEMS FOR PRODUCTION ENGINEERING:

Raw materials • Peripheral devices, production engineering laser systems • Laser-aided products development and design systems • Laser systems for various materials • Material processing systems • Laser systems for various applications • Laser systems for the production of printed organic electronics.

OPTICAL MEASUREMENT SYSTEMS:

Active optical components and subsystems • Passive optical components and subsystems • Process and assembly equipment for fiber optical applications • Fibers, cabling, connectors and distribution • Optical information and communication • Laser-aided test and measurement systems • Holographic systems and components • Fiber optical test and measurement.

SECURITY:

Applications • Equipment • Modules.

MANUFACTURING TECHNOLOGY FOR OPTICS:

Adhesives for optical systems • Optical manufacturing equipment for optical systems • Manufacturing materials for optical systems • Optical coating materials • Optical manufacturing processes for optical systems.