



ELECTRONICS

IS OUR **WORLD**

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The company RMC s.r.o. was established in 1994 with an aim to provide modern electronic systems oriented at particular customer and specific need. We are focused on providing the system solutions in area of industrial electronics, communication and navigation systems. We provide complex automation and electronization of machine tools, forming machines, manipulating and technological lines and production systems. If required, we act as system integrator in projects of larger or multidisciplinary character. The customer obtains original solution in the form of finished development of product or production of particular product prepared by our company in required series.

The customer oriented focus of the company leads to a continuously expanding professional scope of the company. During more than twenty years of our activity we have successfully implemented more than 300 projects. Our professional and technical capabilities are focused on these areas:

Research and Development

Research and Development form the basic backbone of company and are secured by the stable team composed of high qualified personnel. This allows us to solve also the most demanding tasks with a modern basis of components manufactured by the world producers. We specialize in customer oriented solutions of specific needs, as well as development of own products. Together with academic partners we involve in research projects and we are authorized to perform research and development by the Ministry of Education of Slovak Republic.

Our services involve:

- › Preparation of technical specifications
- › Development of customer oriented solution
- › Processing of the technical documentation
- › Preparation of seasoning and testing procedures
- › Assistance in product certification process in domestic or European test laboratories

In our work we use these modern design systems:

- › Research and development: CAE mathematic and simulation design systems (MatLab, Simulink).
- › Implementation of development tasks aimed at GSM, GPS and other RF transmissions: spectral and measuring analyzers (Agilent E5052B, Agilent N8974A).
- › Design of printed circuits: CAD systems (EAGLE, ALTIUM Designer)
- › Implementation of laboratory and production tests: automated measuring and testing system with CAE support (NI Developer Suite, LabView).
- › 3D construction: CAD systems (SolidWorks Professional, 3DVIA Composer)
- › Design of systems, cabling and switch boards: CAD system (Eplan Electric P8 Professional).

Production

We dispose of own modern production facility, where we are able to provide piece production, small-lot and repetitive production of electronic systems of own development, as well as custom-made manufacture according to the documentation of the customer. Every product passes through the phase of technical preparation of production to assure the product will be produced with quality and effectively within required terms.

As additional services we offer cooperation in assembly of the printed circuit boards on **SMT line** and machining of enclosures for electronics and mechanical parts at **CNC workplace**.

In production area we offer the following services:

- › Piece production, small-lot and repetitive production of electronic systems
- › Production of prototypes based on the completed development
- › Production according to the customer documentation
- › Material/technical supply of components according to the specifications of customer
- › Assembly of PCB's using SMT technology and supplementary THT technology (through hole technology)
- › We offer following possibilities of soldering:
 - › conventional soldering - reflow furnace
 - › special soldering – in vapors
- › Providing for screen printing stencils for paste according to the specifications of customer
- › Check of the assembly and soldering: utilization of automated optical inspection (AOI)
- › Machining of plastics, aluminum, copper and brass at CNC workplace that enables precise milling, drilling and threading
- › Section of manual assembly provides assembly of the outlet components and mechanical parts on printed circuits, as well as the final assembly of products into construction systems, production and assembly of cable bundles.
- › Fast production of printed circuit prototypes at the automatic CNC workplace
- › Testing and technological running-up of products according to the customer requirements

We utilize technologies:

- › Screen printing DEK 265 – automatic application of the paste by printing on PCBs, 2D check
- › OPAL XII Cli (Assembleon) – 8-head automatic assembly machine SMT (13 900 chip/hour - IPC 9850, parts: 01005-QFP, CSP, BGA, uBGA - 32x150 mm)
- › Reflow furnace SMT 460/2.4C- for automatic and reliable soldering of PCB (RoHS)
- › Soldering equipment IBL, SV 260 - for special and reliable soldering in vapors
- › AOI – ADL520 – automated optical inspection of PCB after soldering of the components
- › Complementing components Tescona (input station, control and output station, feeders to ensure the automatic run of SMT line



RMC company is the owner of the Quality management system certificate in compliance with the ISO 9001:2009 standards.

Sales

- > We are authorized sales and consulting center of Honeywell Co. in the Sensorics segment. In addition to the sale and technical consultancy, we offer to our customers also technical solutions of sensors application and related evaluating and control systems. Within the frame of complex solutions, we offer sensors and actuators from majority of the world manufacturers.
- > Consultancy and delivery of the photovoltaic power plants for family houses and companies

In cooperation with ELING company we also provide:

- > Delivery of enclosures for electronics from BOPLA company
- > Delivery of mechanical components from RK Rose + Krieger company:
(linear units, aluminum construction system, tube connection system)

Awards

The unique of the year 2015 for power supply source of the Slovak satellite SK CUBE at the ELOSYS Exhibition in Trenčín

Ecological act of the year 2014 in electrotechnics for the exhibit Container ambulance station with off grid power plant based on renewable sources of energy at the ELOSYS Exhibition in Trenčín

Innovative act of the year 2014 in the category Product innovation for product Container ambulance station ENIC – award of Minister of Economics of Slovak Republic

Electro-technical product of the year 2014 for product Communication module JM03 at the ELOSYS Exhibition in Trenčín

Ecological act of the year 2013 in electronics for exhibit Grid-off photovoltaic power plant PVI-3P1A2 at the ELOSYS Exhibition in Trenčín

Design engineer of the year 2012 for design and implementation of electronic control system in the stomatology set

The most successful exhibit of the 2001 exhibition for product Laser marker LZZXXX at the ELOSYS Exhibition in Trenčín

Electro-technical product of the year 2011 for type line of photovoltaic inverters AMON at the ELOSYS Exhibition in Trenčín

References

> Industrial automation and electronics:

Measuring and regulation electronics
Laser marking equipment for production line production line of tires
Measurement of profile of belt material for production line of tires
Industrial keyboards
Electronics of time safes for banks
Control and regulation of electricity consumption
Control system of production line in textile production
Positioning device PZZ
Measurement of bearing rings EMS04
Application for railways – communication terminal

> Wireless electronic solutions:

GSM modems and alarms
GPS and GSM communication – systems of monitoring of vehicles
Monitoring of fuel stations in distant areas
Smart metering systems
Data concentrators for smart metering

> Solutions for medical sector:

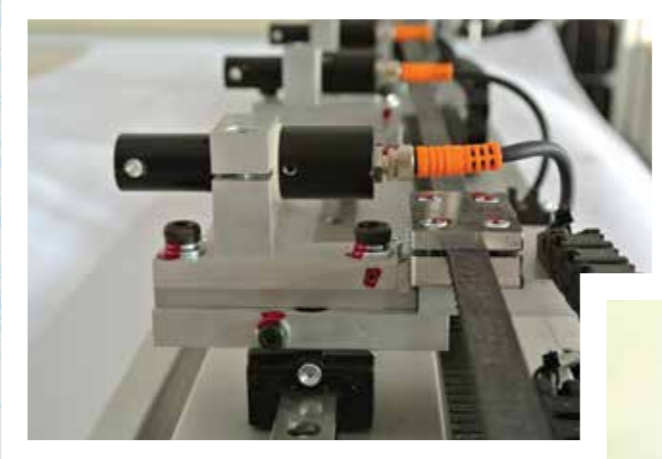
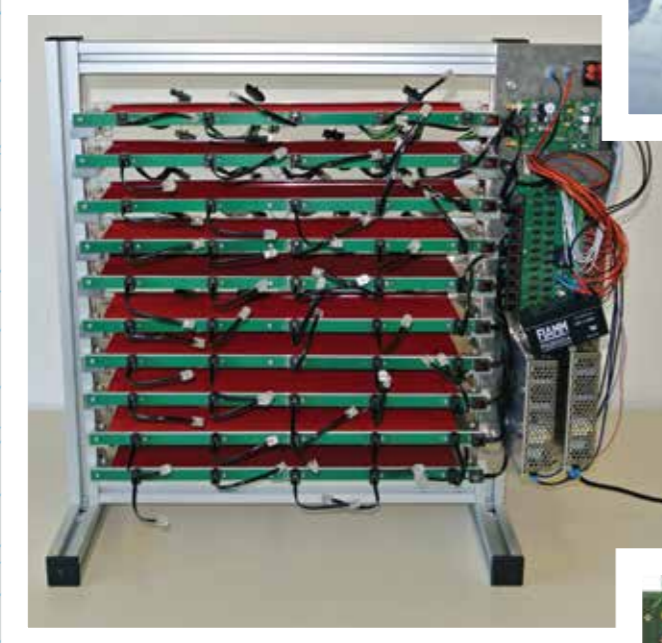
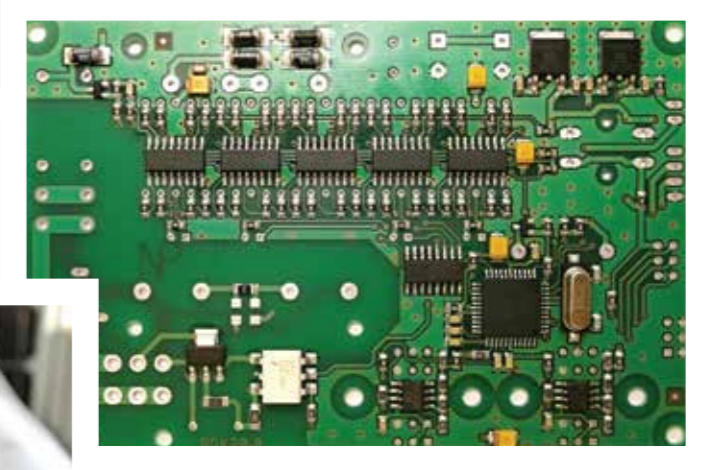
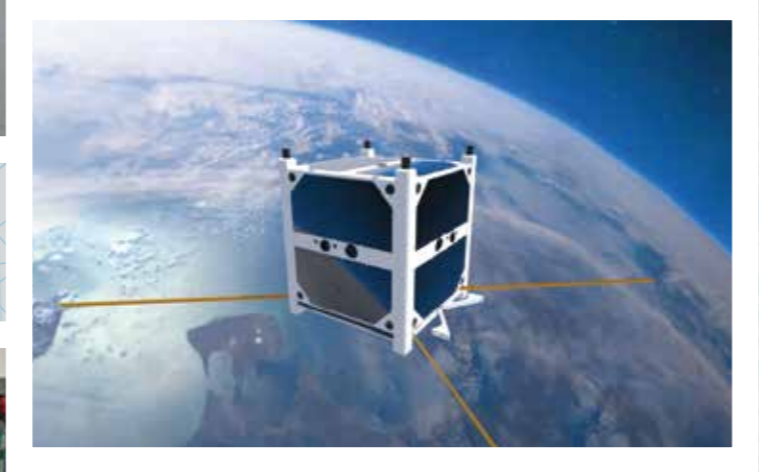
Electronic control of stomatological set
Electronic control of respiration compressor

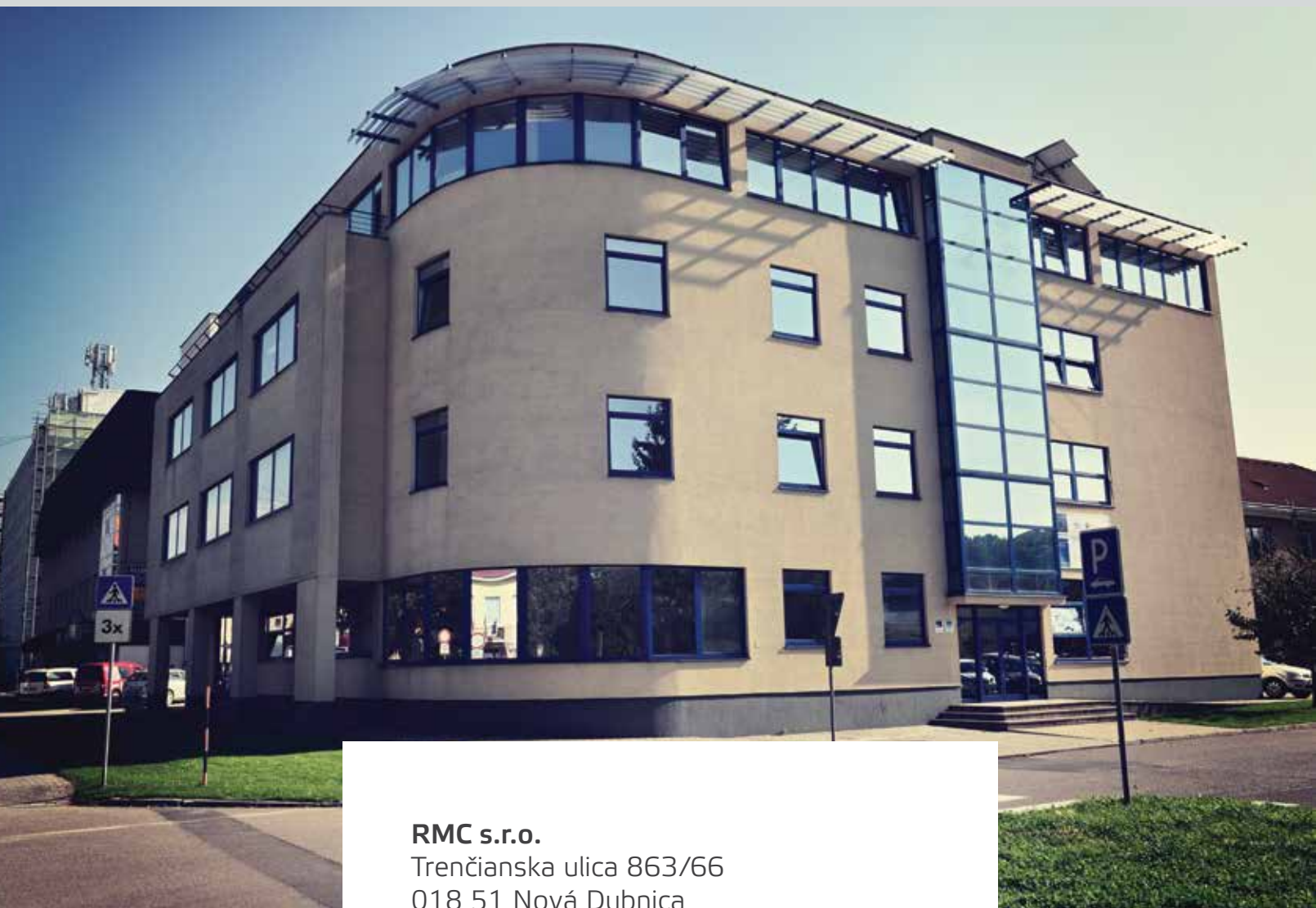
> Consumer electronics :

Electron tube amplifier Popular A3
Turntable preamplifier
Loudspeaker set for electron tube amplifier
Large scale digital clock
Results board for sports events
Regulator of solar heating
Electronics for water heaters
Electronics for honey extractor
Transverter for ham radio

> Photovoltaic applications:

Construction of turn-key power plants, projection and erection (Grid-on, Grid-off)
Research project: Research of technological base for designing of the applications of utilization of renewable sources of energy in practice
Container ambulance station with grid-off power plant based on renewable sources of energy
Development of power supply source for the Slovak satellite SK CUBE





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