



Electronic assembly and production **in Romania**

2021

www.ebs-electric.eu

EBS Electric Group

EBS Electric is one of the providers of electronic manufacturing services in Romania, which brings together the combined experience of Electro Promex and BKD Electronic. We have been producing, assembling and testing industrial and household electronic components and equipment for over 27 years.

With a broad understanding of customers and a clear focus on the market, we collaborate with leading companies that offer state-of-the-art technological solutions.



SKILLS:

- ▶ Financial management of the EBS group
- ▶ Management of procurement of raw materials
- ▶ Technological and product design
- ▶ Execution of electrical cables and wiring for industrial automation
- ▶ Sales and service management to the group's customers

SKILLS:

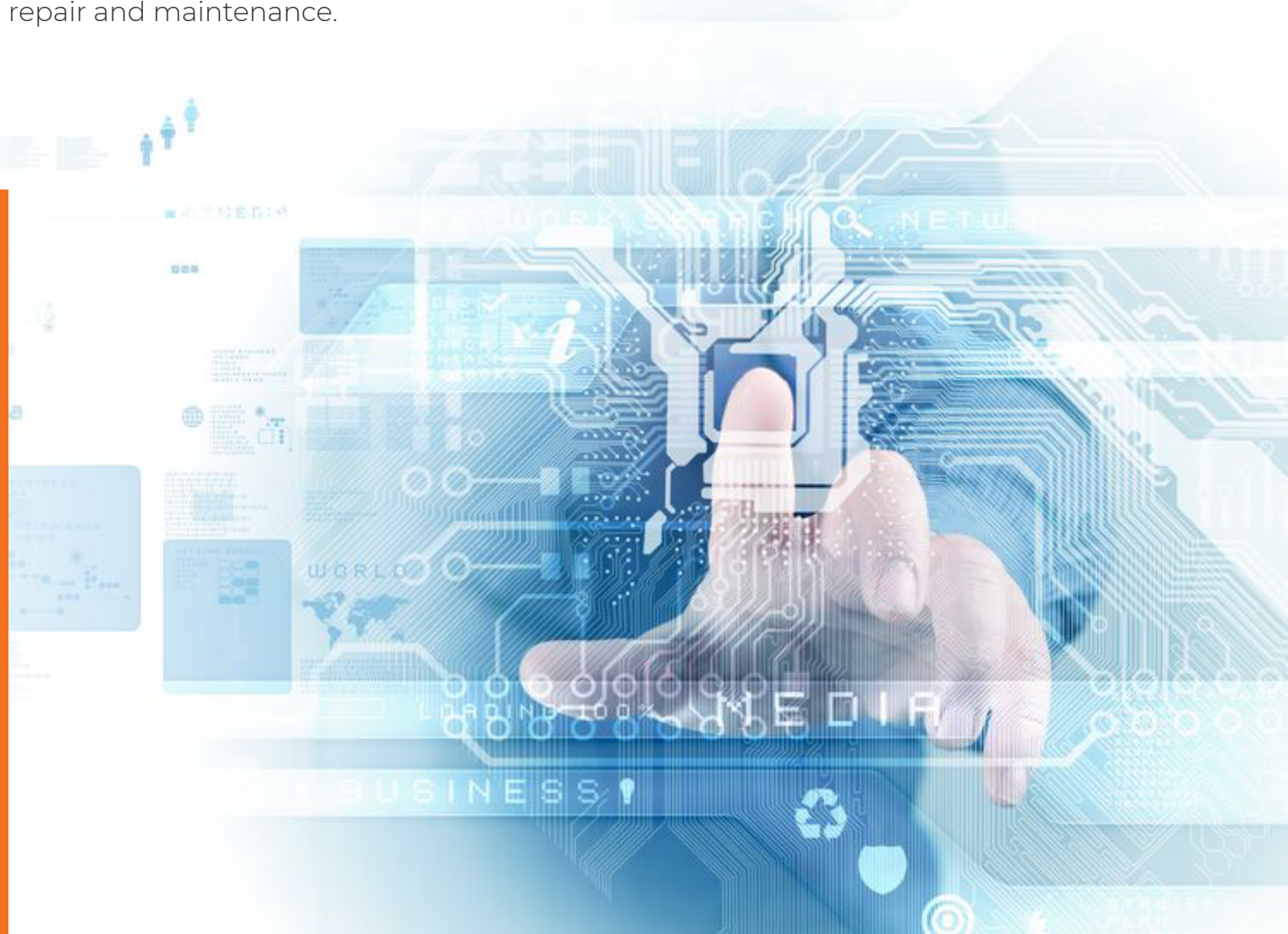
- ▶ SMD assembly
- ▶ THT assembly
- ▶ Functional testing
- ▶ Selective varnishing
- ▶ Final product assembly

OUR STRATEGY:

EBS ensures the sustainable success of its customers in the fields of energy, industrial automation, transport, building automation and sensors.

Being one of the important providers of electronic production services (EMS) in Romania, we contribute through our skills to the sustainable growth of our customers so as to optimize their value chains, improve their competitiveness by increasing product productivity and reliability, as well as by decreasing the production time and the total cost per unit of product. EBS provides end-to-end EMS services, from engineering, large-scale production and after-sales services to supply and supply chain management.

Our offer includes efficient material procurement services, cost reduction services, development of test systems, printed circuit board (PCB) assembly, housing assembly, and repair and maintenance.



Research - Development

From concept to production, we offer the highest quality services at competitive prices.

Our team of designers covers the following services:

Product design

Electronic Schematic Design & PCB Layout

Embedded software design

Prototype production



Electronic Production

We are a full EMS service provider with long experience in Romania and Austria.

We cover complete assembly services in electronics:

SMD assembly

THT assembly

BOM procurement

Anticorrosive coating and selective protection of PCBs

Automated optical inspection and functional testing

Production of electrical wiring and cables for the connection of electronic modules

Repair and replacement of modules for obsolete electronic circuits

Final product assembly

Procurement Management

We understand how important supplier management is to our customers. That is why, over the years, we have developed numerous collaborations and business relationships with all major electronic component suppliers in Europe. Regardless of requirements: full, partial supply or assembly services - with customer-supplied packages - our supply departments in Romania and Austria offer efficient solutions.

SMD Assembly

We have 2 automatic production lines, consisting of: printer, 2 pick and place, soldering oven with 8 zones and nitrogen equipment, AOI 2D.

The technical capabilities of SMD assembly are:

- 40,000 CPH (components/hour)/production line
- Part Size: 0402 (01005 inch) ~ 55mm (H15mm) 0402 (01005 inch), Connector (Lead Pitch 0.4mm), BGA, CSP (Ball Pitch 0.65mm max.)
- PCB Max Size: 460(L) x 400(W) mm,
- PCB Min Size: 50(L) x 40(W) mm
- Thickness PCB: 0,38-4,2mm



THT Technical Assembly Capabilities

We provide manual or automatic THT assembly services, through our dedicated department, within the production units.

Our technicians are trained according to the IPC-A-610 standard. We cover small and medium volumes, using soldering stations with RoHS profile.

Functional Testing Capabilities

We provide customized functional testing services using our own software as well as rack & stack hardware solutions. Our services include advice and assistance in the initial stages of product development, in order to assess testability. On request, we also offer functional testing software development services, so that you can safely test electronic components in your own laboratory whenever you want.

Fixture test - we produce these test adapters with nail bed, made for each type of PCB.

Software - applications are developed within our company to control the testing system and improve functional testing capabilities.

Assembly of Cables and Electrical Wiring

- The cutting and stripping of semi-finished products is done with Komax Kappa 310 machines, recognized for their wide range of high quality operations.
- The crimping is done on Mecal presses, where the applicators for various types of pins change very quickly.
- Stripping - by twisting the wires, it is done with the help of FEINTECHNIK RITTMEYER equipment.
- Crimp quality control - is performed with the tensile tester EPT50 from MI&T with digital indication.
- Cable control - for interruption, short circuit and incorrect insertion is done with a computer-assisted device, developed by us.



Selective Coating of PCBs

The material is applied in a controlled layer using a 5-axis machine, eliminating unwanted coatings associated with the atomization process.

Minimizes losses and further processing

The application process takes place in a closed and ventilated environment

Excellent 5-axis head coverage

Wide range of dispensing nozzles, with dimensions between 6.35 - 19.05 mm, each with a tolerance of 0.792 mm

High complexity tile coating, up to 457 x 387 mm, in seconds

Quality is essential

Quality is essential to our success: it is an integral part and is based on all our processes.

Our processes are structured in a documented quality management system and are certified by:

[ISO 9001: 2015](#)

[RoHS Statement](#)

[DREACH UE 1907/2006 Statement](#)

[ISO 14001: 2015](#)



Environmental Responsibility

EBS Electric Group considers environmental responsibilities to be an important aspect of ensuring sustainable development, maintaining a clean and clean climate and reducing the nuisances that occur during the manufacturing process.



Economic Responsibility

In order to achieve the objectives set for our financial performance, we follow the principles described in our management system. Rules and legislation are followed in reporting our financial performance.



Responsibility for Human Resources

Our corporate culture encourages the philosophy that each individual offers diverse perspectives, environments and experiences that create extraordinary results when we are united as a team.



Suppliers' Responsibility

Our main goals include a special focus on our valuable suppliers and raising awareness of the principles - human rights, labor, environmental protection and anti-corruption - essential principles for sustaining a prosperous, healthy and happy society.





332005 Anghel Saligny Street, Nr. 3 Petrosani,
Hunedoara, Romania

+40 254 542 964

+40 254 548 964

office@ebs-electric.eu

www.ebs-electric.eu