

www.bitron.com



### Vision & Mission

Efficiency and sustainability are inseparable concepts



#### Vision

We create products and systems to help improve the quality of life of people and the world around them. We believe in a future in which efficiency and sustainability are inseparable concepts.

#### Mission

We have been creating with tenacity & passion more and more competitive, reliable & smart technologies aimed at guiding innovation towards a sustainable future. We constantly build upon our success, forever based on strong links with our global stakeholders, verticalizing and glocalizing our processes.

### BURUN

# Values















### **Our Commitment**

We promote, in every decision we make, a company culture based on collaboration and respect, building day by day a working environment where everyone feels welcome. We value employees for their individual qualities, creating the conditions for them to express their full potential.















# Company profile 2024



### 1.398M€

PRE-CLOSING 2023

9.200

HUMAN RESOURCES (temporary workers included)

# Key data

Last update: January 2024

76,8M€

CAPEX PRE-CLOSING 2023



**INDUSTRIES** 





Bitron helps companies to **design & realize innovative** solutions by guiding them in research, development & production of mechatronic components and systems.



18

MANUFACTURING PLANTS & DEVELOPMENT CENTRES

16

SALES AND
TECHNICAL CENTRES

1

**BITRON SERVICE** 

(AFTER MARKET CENTRE) TURIN - ITALY



In the world

Manufacturing plants and development centres

ITALY

BITRON
ELECTRONICS S.p.A.
Grugliasco Unit

ELBI
INTERNATIONAL
S.p.A.
Collegno Unit
Appliance / HVAC /
Tooling Unit

ELBI INTERNATIONAL S.p.A. Alatri Unit Appliance ELBI
INTERNATIONAL
S.p.A.
Cormano Unit
Appliance /
Vending

ELBI INTERNATIONAL S.p.A. Dronero Unit Appliance / HVAC BITRON S.P.A.
AUTOMOTIVE
SOLUTIONS
Rossana Unit

BITRON S.P.A.
AUTOMOTIVE
SOLUTIONS
Savona Unit

EUROPE

BITRON ESPAÑA BARCELONA AUTOMOTIVE

BITRON POLAND
ELECTROMECHANICAL UNIT
SOSNOWIEC
APPLIANCE
AUTOMOTIVE
HVAC

BITRON POLAND

ELECTRONICS UNITS

SOSNOWIEC

ELECTRONICS

COMPONENTS

BITRON POLAND 2

ELECTRONICS UNITS

SOSNOWIEC

ELECTRONICS

COMPONENTS

BITRON TURKEY MANISA APPLIANCE AUTOMOTIVE



BITRON
ELECTRONIC CHINA
QINGDAO
ELECTRONICS
COMPONENTS

BITRON
ELECTRONIC CHINA
HUANGDAO
ELECTRONICS
COMPONENTS

BITRON CHINA QINGDAO TOOLING UNIT BITRON IND. CHINA QINGDAO APPLIANCE AUTOMOTIVE

AMERICA

BITRON DE MÉXICO ELECTROMECHANICAL UNITS QUERÉTARO AUTOMOTIVE APPLIANCE

BITRON DE MÉXICO
ELECTRONICS UNITS
QUERÉTARO
ELECTRONICS
COMPONENTS



# Core technologies



#### **ELECTRONIC TECHNOLOGIES**

















CAD - CAM - CAE and 3D prototyping

Rubber compounding and moulding

Plastic moulding, overmoulding, multimaterial injection

Painting, printing, laser etching, In mould Labeling (IML)

Metal process: blanking, turning, surface treatment

Coil winding

Automatic and manual assembly lines and testing



# Core technologies



1. SMT PHASE

**ELECTROMECHANICAL TECHNOLOGIES** 

**ELECTRONIC TECHNOLOGIES** 

2. ASSEMBLY AND TEST PHASE



Full traceability and automatic MSL (Moisture Sensitivity Level) control

3D solder paste inspection

Pin in paste assembly

PTH automatic insertion and soldering module

In-line ICT testing and AOI (Automatic optical Inspection) (2D/3D)

X-Ray inspection



Reconfigurable router (PCB separation)

Reconfigurable mechanical assembly

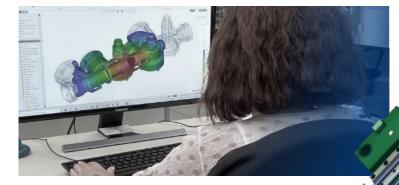
Multi Assembly Cells

(standard module for automatic lasering, testing, assembling & packaging)

Real time monitoring of production data

Internal development of testing solution









-10-

Our two mould development and manufacturing centres are located in Italy and China. However, thanks to our shared knowhow, several Bitron plants have molding departments with dedicated tool shops able to assure the fine-tuning, maintenance and spare parts of their tools.

# Tool design and manufacturing

Bitron Tool Departments



#### BURUN

# Research & Development The systems approach: expertise and strategy

Multi-functional engineering teams

Best-in-class development tools

System knowledge

Dedicated competence centres

Multilocation R&D centres

Internal laboratories for validations















COMPUTERIZED AXIAL TOMOGRAPHY





At Bitron we develop, implement and maintain an Integrated Management System for Occupational Health and Safety, Environment, Information Security and Quality.

We operate strictly in accordance with the latest versions of the UNI EN ISO 45001, ISO 14001, ISO 27001, ISO 9001 and IATF 16949 standards, which relate to Safety in the workplace, respect for the Environment, Quality for Customer satisfaction and Information Security, to be essential.



ENVIRONMENT

NFORMATION SECURITY REFERENCE POINT

### Our standard is: zero defects

To provide products and services that meet the requirements including safe and eco-sustainable processes, ensuring the protection and preservation of information. No one is willing to buy or sell, consciously, defective services or products, so the commitment of each of us must be to cultivate our knowledge for:

- Understanding without errors or omissions the needs of those who ask us for a service or product
- Sourcing resources 100% compliant with requirements
- Satisfying, without compromise, the expectations of those who buy our work









ENVIRONMEN<sup>-</sup>

INFORMATION SECURITY

REFERENCE POINT



### Occupational Health and Safety

In order to spread the "safety culture" and to improve accident prevention, Bitron Group has launched a project entitled "Safety: our way of life".

The project has been rolled-out primarily in all of the Italian plants, focusing on training, education and improvement actions addressed to all Group employees. It is a permanent project involving all of the human resources of the Company. We are all highly committed to providing the best solutions in order to make our jobs and processes safer.

ERO DEFECTS HEALTH AND SAFETY ENVIRONMENT SECURITY

### Environment

Protecting the environment is one of Bitron's core values.

We pursue the goals of reduction of environmental impact through the prompt identification, assessment and prevention of environmental risks, referred to internal and external contexts.

Strategies for sustainable development pursue continuous improvement in environmental and related aspects, in compliance with our Sustainability Policy and the United Nations Global Compact – SDG's.

#### PILLARS OF OUR SUCCESS:

- ECODESIGN
- MAXIMIZATION OF ENERGY EFFICIENCY
- OPTIMIZATION & MINIATURIZATION (RAW) MATERIALS
- USE OF RECYCLED MATERIALS







ZERO DEFECTS

HEALTH AND

ENVIRONMEN<sup>-</sup>



REFERENCE POINT

### Information Security

Bitron operates according to the highest Information Security Standards ISO27001/IEC62443/TISAX with the aim of protecting the Confidentiality, Integrity and Availability of information.

Human resources and technological means cooperate to provide the security of all types of data, including personal data.

A Corporate Integrated Information Security Management System has been deployed across all plants worldwide.

Bitron Group, through its people-centric philosophy, has implemented an awareness project in all plants to improve Security and the resilience against threats.

Information Security is an essential part of our culture.

ZERO DEFECTS

HEALTH AND SAFETY ENVIRONMENT

INFORMATION SECURITY

REFERENCE POINT

### The Customer's Reference Point

Bitron Certifications	ISO 9001	IATF 16949	ISO 14001	ISO 14006	ISO 45001	ISO 50001	ISO 27001	TISAX	IEC 62443-4- 1	RBA	MID
BITRON INDUSTRIE S.p.A. (HEADQUARTERS)	•						•				
ELBI INTERNATIONAL S.p.A.	•		•								
BITRON ALATRI	•	•	•		•			•			
BITRON CORMANO	•				•						
BITRON DRONERO	•		•		•						
BITRON GRUGLIASCO	•	•	•	•	•		•	•	•		•
BITRON ROSSANA	•	•	•		•			•			
BITRON SAVONA	•	•	•		•			•			
BITRON ESPAÑA	•	•	•					•			
BITRON TURKEY	•	•	•								
BITRON POLAND ELECTRONICS	•	•	•		•		•				•
BITRON POLAND ELECTROMECHANICS	•										
BITRON INDUSTRY CHINA	•	•	•		•	•					
BITRON ELECTRONIC CHINA	•	•	•		•		•				
BITRON ELECTRONIC CHINA HUANGDAO	•	•	•		•		•			•	
BITRON DE MÉXICO ELECTROMECHANICS	•	•	•		•			•			
BITRON DE MÉXICO ELECTRONICS	•	•	•				•				

Quality is one of the **Bitron Group's** fundamental principles





Bitron Group has aligned its operations and strategy with the UN Global Compact initiative, which upholds ten universally accepted principles in the areas of human rights, labour, environment and anti-corruption.

Bitron is committed to helping to realize the SDGs (Sustainable Development Goals), the set of global targets adopted by the United Nations in 2015, comprised of 17 goals to be achieved by 2030 for a more sustainable society.



Sustainability

Development Goals

Bitron is actively involved in:



GOOD HEALTH AND WELL-BEING



AFFORDABLE AND CLEAN ENERGY



INDUSTRY, INNOVATION AND INFRASTRUCTURE



RESPONSIBLE CONSUMPTION AND PRODUCTION



**CLIMATE ACTION** 

# Key data

Sustainability - Last update: December 2023

EURUN

0,056

ENERGY INDEX (GJ/HOURS WORKED)

94%

WASTE INTENDED FOR RECOVERY

46,3%

WOMEN

696

NEWLY RECRUITED EMPLOYEES UNDER 30

0,006

INDEX
OF INTENSITY OF EMISSIONS
(TCO<sub>2</sub>/HOURS WORKED)

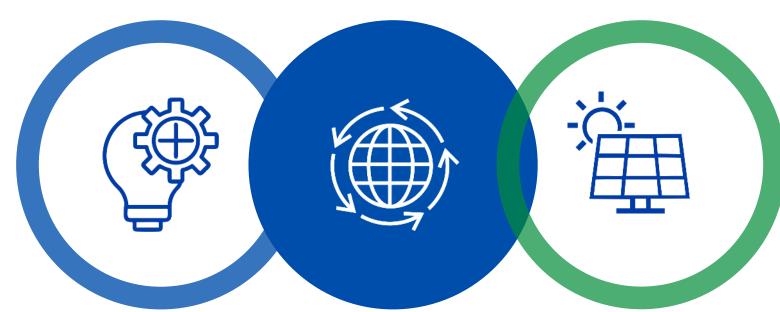
Climate protection is one of the core values of Bitron Group. Green energy is the solution Bitron Group adopts to safeguard our planet.

11.5% of the total energy consumption is green.



## Investments

Sustainability



#### **ENERGY EFFICIENCY**

- Tri-generation technology
- Heat pumps with vertical geothermal probes
- Led lighting
- Energy efficient electric plastic injection machines

#### CIRCULAR ECONOMY

- Resource minimization
- Reused plastic and metal scrap

#### RENEWABLE ENERGY

- Solar PV plants
- Carbon credits
- Renewable Energy Purchasing (REC/ GOs)

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Decarbonization &

the targets always

choices. For this

guiding our business

reason, Bitron Group is

investing heavily in:

social responsibility are



### Automotive Solutions

www.bitron.com









Mercedes-Benz

MOTO GUZZI



BURUN



















**DRÄXLMAIER** 































Automotive



## Automotive products

**Applications** 









We put our skills and technology into each area of application, in order to develop complete solutions covering the entire production cycle.





HMI

A Human Machine Interface device allows humans to engage and interact with vehicles in a far more natural way. Bitron HMIs represent smart surfaces that by combining controls, info displays, lighting and haptic actuators, erasing the boundary between function and aesthetic, ensure a formidable customer experience.

























#### **POWERTRAIN**

At Bitron, we consider the Powertrain the car's hearth. Our passion guides us in developing components that manage the vehicle fluids, mandatory for the correct beat of the car. In this way, we are sure to guarantee the user satisfaction giving our contribution for the environment sustainability.



AIR SOLENOID VALVES





BURUN













#### BURUN







#### **TRANSMISSION**

The transmission system uses the power created in the engine to keep the wheels spinning, physically allowing the movement of the vehicle. Clearly, not all the vehicles are the same. They can be all-wheel – drive, front-wheel drive or rear-wheel drive. Indeed, the transmission system has to be perfectly tuned to your vehicle.



The chassis system manages the

dynamic behavior of your vehicle. Its

perfect control impacts directly on

safety, comfort and efficiency.

CHASSIS

### BURUN

# ACCELERATOR PEDALS



















POSITION

SENSORS



#### **E-MOBILITY**

E-mobility refers to the vehicles fully or partly driven electrically. Hybrid vehicles combine two engines, electric and internal combustion, to assist the second one in terms of lower emissions and consumption. On the other side, full electric vehicles (or BEV), only use the power of electricity to move, without any internal combustion. Environmental sustainability and reduction of carbon footprint is a sensitive issue, becoming higher than ever, specially inside the automotive world. At Bitron, we are working to be part of the new market landscape, changing constantly towards more sustainable choices.

















### BURUN













#### MOTORCYCLES

In Bitron, we strongly believe that the motorcycle world demands for more innovative and customizable solutions.

Therefore, we are aiming at improving our entire dedicated product portfolio with a clear scope: increasing efficiency.



#### **HYDROGEN**

Hydrogen is an interesting alternative energy that meets certain needs in transport, industry, heating and auxiliary electricity production. We have therefore developed a first range of low-pressure hydrogen solenoid valves for fuel cells based on our long experience in solenoids. For the cooling of the stack, we also offer a modular actuator with 2 to 4 ways with different flow rates.















← APPLICATIONS



## Home Appliance

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### Main customers

Home appliance

# Home appliance products







We put our skills and technology into each area of application, in order to develop complete solutions covering the entire production cycle.



detergent and liquid distributors, bulk dispensing devices, water softeners, door locks, various types of switches and sensors (including pressure sensors) as well as a comprehensive range of electronic main control-boards and user interfaces. We are available for the development of customized solutions.

#### BURUN

# INLET & SAFETY VALVES

























### BURUN

## INLET, DIVERTER & SAFETY VALVES







Applications include water control (solenoid valves and safety systems, water softeners and air breaks & back flow prevention devices), detergent and rinse-aid dispensers, switches and sensors as well as a comprehensive range of electronic main control-boards, motor drives and user interfaces. We are available for the development of customized solutions.

































## COOKING APPLIANCES

Applications include water control (solenoid valves and safety systems), door locks, switches, induction coils as well as a comprehensive range of electronic main control-boards and user interfaces.













## REFRIGERATION APPLIANCES

Applications include water inlet valves, bistable gas valves, fan motors, sensors as well as a comprehensive range of electronic main control-boards and user interfaces.

We are available for the development of customized solutions.

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## SMALL APPLIANCES

Applications include water inlet valves, motors and switches as well as a comprehensive range of electronic main control-boards and user interfaces.



















## HORECA & VENDING

Applications include gear motors, water inlet valves, by-pass and post-mix valves switches and sensors as well as a comprehensive range of electronic main control-boards and user interfaces.















## HVAC













































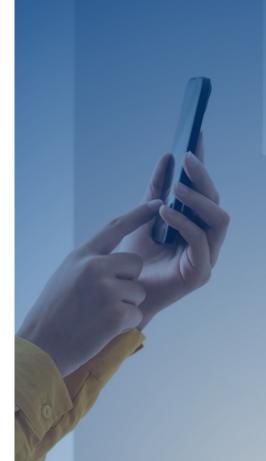




HVAC







# HVAC products

Families









We put our skills and technology into each product family, in order to develop complete solutions covering the entire production cycle.





## HYDRAULIC GROUPS

Bitron has been one of the first companies to develop and manufacture complete hydraulic units for Boilers in composite. The long-lasting experience enabled us to become one of the market leaders in this field with standard and customized systems that integrate most of the components needed to run your appliance on the water side.





















## HYDRAULIC GROUPS

The attention to our customer needs is one of the key success factors of Bitron's growth over time. Working in co-design with customers, Bitron is able to develop solutions that are perfectly suited to the needs of their applications.









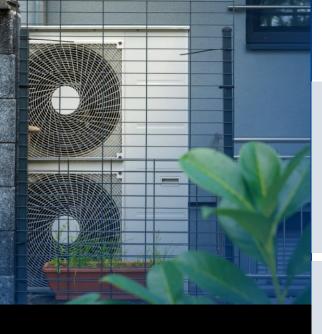












## HEAT PUMPS COMPONENTS

In Bitron we believe that the optimization of the layout and the attention to the assembly process of our customers are key success factors to keep them competitive in the fast-changing market of heat pumps. Bitron's experience in the system integration together with the know how on heating and cooling water circuits are the basis for the Heat Pumps of the future.



































The wide range of Bitron components, their first-class performance and their well-known reliability makes Bitron the best partner for all companies looking for a strong position in the market. We commit to exceed customer expectations providing the highest quality to the Heating, Ventilation and Air Conditioning market.













## **ELECTRONICS**

Electronics is one of the core businesses of the Bitron Group: the interaction between the electronic boards and mechanical parts, thanks to the know-how in both fields, is one of the strengths of Bitron Electronics, that makes us the perfect Partner both for EMS and Co-Development activities. For the HVAC industry Bitron offers reliable production processes, as well as innovative and energy-saving features based on Customer requirements.





## Energy

### **ENERGY**

Bitron is at the forefront of smart meter technology providing design support and best-in-class manufacturing processes, with the successful development of a complete range of smart energy meters and AMI-devices for major smart meters solution provider.





SMART ENERGY METER CUSTOM-SIZE



SMART ENERGY METER DIN-SIZE



**DATA CONCENTRATORS** 



**ACCESSORIES-DISTRIBUTION** 



SMART HOME DEVICES



μUP: SMART STREET BOX DEVICES **REMOTE CONTROL & MONITORING** 

## Main customers >







# EV Charging



### **EV CHARGING**

### Our added Values:

- Global EMS supplier
- IATF-certified Manufacturing site
- Cost engineering team providing complete support for electronic design and VaVe analysis
- ODM with dedicated design engineering team





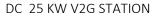






AC RESIDENTIAL & PUBLIC CUSTOMIZABLE SOLUTIONS







DC FAST V2G MODULAR STATION



ULTRA FAST CHARGING DISPENSER



EV SUPPLY EQUIPMENT CONTROL











## Grazie Thanks

