



VESTEL **AUTOMOTIVE SOLUTIONS**

ENSURING CONTINUITY

VESTEL
MOBILITY

VESTEL MOBILITY

Vestel Mobility is a part of Vestel Group which is a renowned global leader in the field of innovation and technology. Vestel Mobility is actively contributing towards the future of transportation and energy transition by specializing in automotive electronics, battery solutions, and electric vehicle (EV) chargers.

In the automotive electronics sector, Vestel Mobility excels in engineering and manufacturing advanced electronic control units (ECUs), EV powertrain components and cockpit electronics such as clusters and infotainment displays.

Vestel Mobility is also a prominent player in the battery solutions arena, producing high-quality battery packages for eBikes, telecom towers, and energy storage systems. These solutions cater to a wide range of residential, commercial, industrial and utility applications.

Furthermore, Vestel Mobility showcases its commitment to promoting sustainable transportation systems by offering a comprehensive range of EV chargers. With both AC and DC options available, Vestel aims to provide seamless and eco-friendly charging infrastructure to support the growing adoption of electric vehicles.

With over 40 years of experience, a vast city-size 1.3 million m² industrial complex, 11 offices based around the world, clientele from over 160 countries, a client-orientated mindset, and true R&D, Vestel embodies a legacy of excellence and a commitment to advancing industries at the intersection of innovation and sustainable solutions.



Exports

160+ countries



Export Leader of Turkey

for the last 26
consecutive years



900+ Customers

500+ Brands



Established over

1.3 million m²



20.000+

Employees



AVAILABILITY

Vestel Trade	Manisa
Vestel UK	London
Vestel France	Paris
Vestel Germany	Munich
Vestel Iberia	Madrid
Vestel Holland	Rotterdam
Vestel Russia	Moscow
Vestel Central Asia	Almaty
Vestel Romania	Bucharest
Vestel Poland	Warsaw
Vestel Gulf	Dubai
Vestel USA	New York



VESTEL SUSTAINABILITY GOALS



42% absolute value reduction in Scope 1 and 2 greenhouse gas emissions.



30% reduction in energy intensity (per unit product).



Using **50%** recovered and recycled water.



Reducing the amount of water withdrawn per unit of production by **35%**.



Zeroing the amount of waste sent to landfills.



Achieving a female employee ratio of **40%** of the total workforce.

Vestel's vision is to be a technology company creating social and environmental benefits through accessible and smart products that make life easier. We are investing in innovative business models for transition to a net zero emission economy and striving to implement circular models in both our products and operations.

We are developing solutions that meet the needs of the future. We are designing products free from hazardous chemicals, that use recycled and recyclable materials, which are durable, easy to repair as well as energy and water efficient.

We calculate and report our carbon footprint according to the ISO 14064 standard and our water footprint according to the ISO 14046 standard and have these verified by independent third parties. We share our performance transparently through our CDP reports. We aim to reach net zero emissions by 2050, first in our own operations and then throughout our entire value chain. To that end, we aim to switch to technologies that cause less greenhouse gas emissions in production, increase renewable energy investments and manufacture products with high energy efficiency, less water consumption, and resource efficiency benefits.

We aim to strengthen our presence as a global player with our experience, vision, intellectual power, and technological prowess; and we are determined to contribute to a better and livable world, focusing on our environmental, social and governance performance.



INNOVATION

VESTEL's approach brings the true meaning of custom design experience and creates the highest level of technology solutions from scratch. VESTEL Battery Solutions R&D team ensures complete client satisfaction by meeting the needs of any project at the highest quality. Combining the latest technology test and simulation tools alongside the design and manufacturing capabilities all in-house.



Fast and Fully Customized Projects by Providing Direct Access to our R&D Team.



R&D Investment Amounting to an Average 80M USD.



7 R&D Centers in 4 Countries.



Among Top 50 Companies in Patent Applications in Europe

PRODUCTION WITH HIGHEST QUALITY

TPM Awarded Manufacturing Facility

Awarded for World-Class TPM Achievement

Auto Grade Production for BMS

Automotive Grade In-house BMS Manufacturing with IATF 16949 Certification at Europe's biggest automated PCB facility.

Automated Production Lines

Fully automated cell sorting for the best possible cell balancing.

Laser Welding

Fully automated laser welding technology.

In-house Accredited Testing Facilities

Vestel Battery Solutions provides the utmost quality products with highest standards of quality with in-house accredited testing facilities for environmental, electrical, software and mechanical tests.



Tracking Real Time



ERP Integration



Real Time Planning



Traceability

PRODUCT SCOPE

Vestel has manufactured a diverse range of auto component products, and new products are also covered under their plans.



Automotive Display Solutions

Leveraging over 40 years of display experience, Vestel brings advanced screen technologies to the automotive sector, providing an enhanced screen experience for both drivers and passengers.



Domain Controller Units

Domain Controller Units represent the next generation of automotive system management. These units centralize and streamline control over various vehicle domains, enhancing integration and efficiency. With their advanced architecture and robust performance, our Domain Controller Units drive innovation, ensuring seamless operation, enhanced safety, and a superior driving experience.



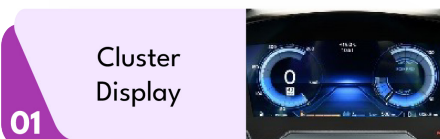
Electronic Control Units

Electronic Control Units, which manage the vehicle's electrical and sub-systems, offer innovative and reliable solutions for the automotive industry with their advanced technology and superior performance.

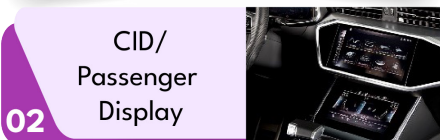


EV Powertrain

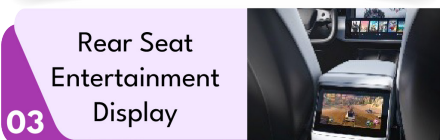
The EV Powertrain product group is designed to elevate the performance and efficiency of electric vehicles. These cutting-edge components ensure optimal energy conversion, charging efficiency, and power management. Our EV Powertrain solutions deliver unparalleled reliability and advanced technology, contributing to a greener, more sustainable future in the automotive industry.



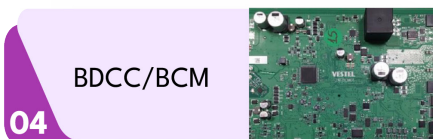
01 Cluster Display



02 CID/
Passenger Display



03 Rear Seat Entertainment Display



04 BDCC/BCM



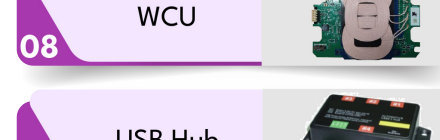
05 HPCC/IDCC



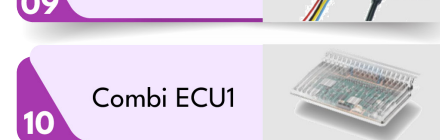
06 Zonal Module



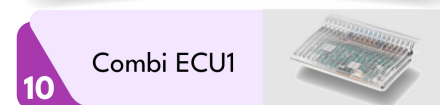
07 TCU



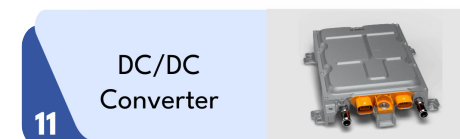
08 WCU



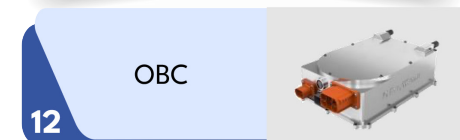
09 USB Hub



10 Combi ECU1



11 DC/DC Converter



12 OBC



13 PEU (OBC + DC/DC)

EMS & FSS EMS Only

EMS & FSS EMS Only

PRODUCTS



AUTOMOTIVE DISPLAY SOLUTIONS

As Europe's biggest display producer, Vestel is synonymous with innovating, designing and manufacturing display solutions such as TVs, LED and LCD Videowalls, interactive displays and digital signage displays for more than 500 brands.

Digital displays are the key-elements inside the vehicle. It brings immense convenience for drivers by giving real-time demonstrations, wide-range-information and controlling infotainment system from various shortcuts. It is also essential for in-vehicle entertainment experience of the passengers.

Starting over from scratch, we define and realize our customer needs and offer them valuable solutions with our UI/UX, mechanical, hardware, and software professionals.



DOMAIN CONTROL UNITS

An aerial view of a multi-lane highway interchange. The image is overlaid with a red digital aesthetic. Numerous white circles are placed around various vehicles on the road, representing sensor ranges or data points. These circles are interconnected by a network of thin white lines, suggesting a connected vehicle system. The background is a dark, blurred image of the highway, with the red overlay creating a sense of motion and data flow.

Connectivity is driving the future of mobility. Connected vehicles communicate several data attributes from multiple sensors.

They generate and provide rich data on both vehicles and their surroundings which are called V2X.

Telematics Control Unit (TCU) is the embedded onboard system that controls wireless tracking, diagnostics and communication to/from the vehicle; these systems can be used in eCall crash notification, electronic tolling and vehicle tracking, among many others.

As Vestel Automotive Solutions, we are capable of designing and manufacturing various TCU products to contribute to the future of connected mobility.

ELECTRONIC CONTROL UNITS

An electronic control unit (ECU), also known as an electronic control module (ECM), is an embedded system in automotive electronics that controls one or more of the electrical systems or subsystems in a car.

The expertise that Vestel has developed over the years in both hardware and software is the architect of its success in ECU business, which is at the core of mobility.

With our strong R&D and 38 years of experience in electronics, we are capable of designing and manufacturing ECUs for our customers.



EV POWERTRAIN

- ✓ IPC A610 (CIS) Acceptability of Electronic Assemblies
- ✓ IPC A600 (CIS) Acceptability of Printed Boards
- ✓ IPC 7711-7721 (CIT) Rework / Repair and Modification Program

 **6m**
Pcs/Monthly
Capacity

 **56**
Production Lines

 **1.025**
Robots

 **1.353**
Equipments

 **40.000m²**
Closed Area

NOTES

VESTEL

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