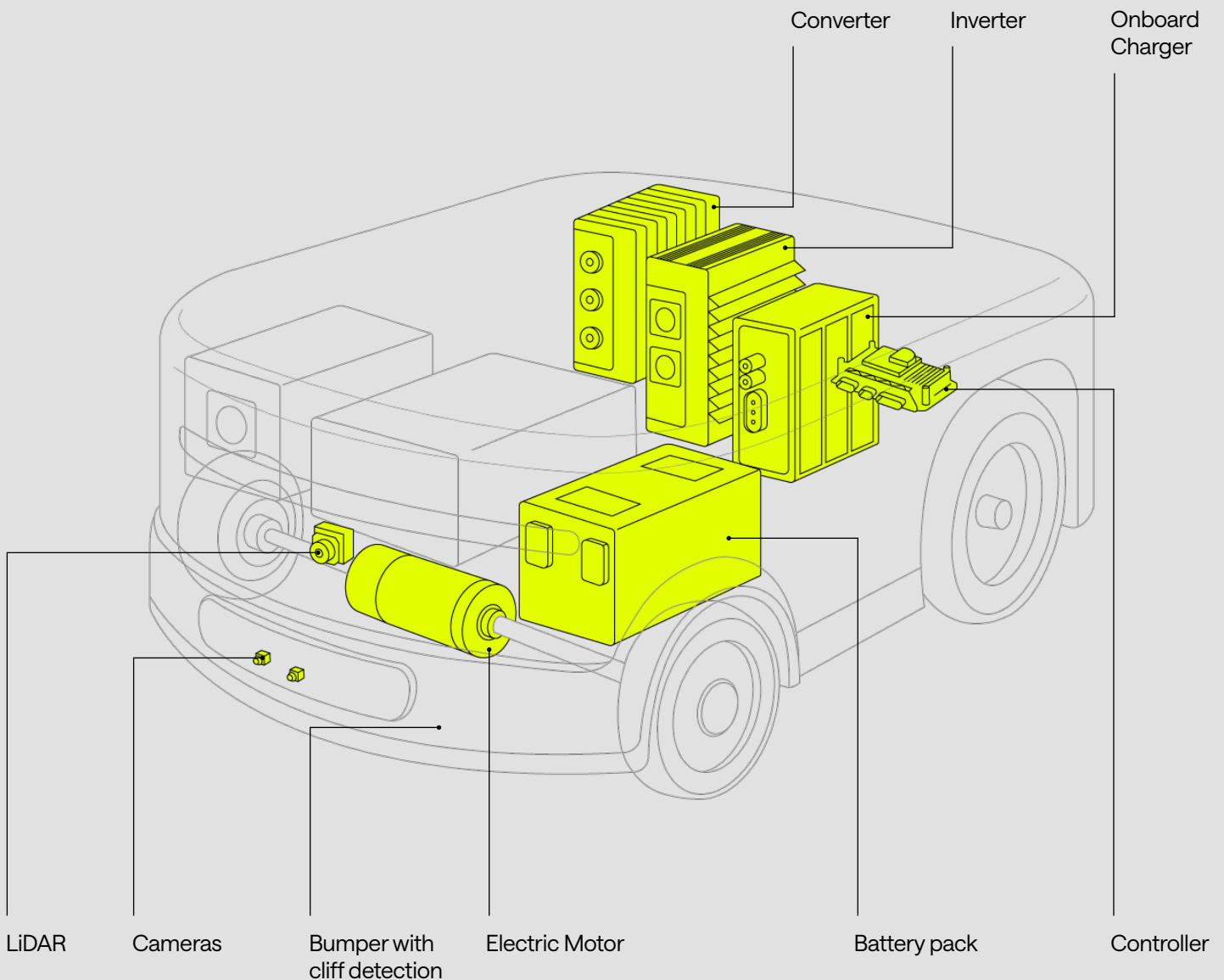


Autonomous Mobile Robot (AMR)

ENNOVI's Autonomous Mobile Robots (AMRs) solutions combine performance, reliability, and intelligence. Our optimized designs reduce cost, complexity, and assembly time while ensuring efficient energy transfer and thermal safety.

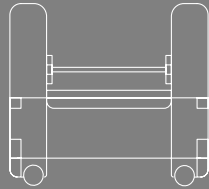
ENNOVI™



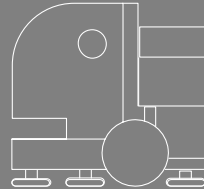
↳ TYPES OF AMRS



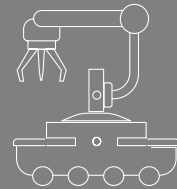
**AUTOMATED GUIDED
CART (AGS)**



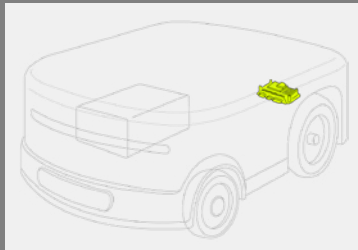
UNIT CARRIER ROBOT



CLEANING ROBOT

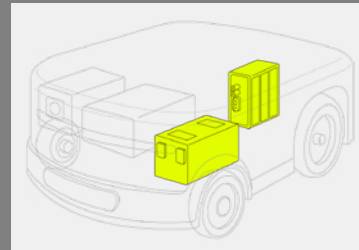


PICKING ROBOT



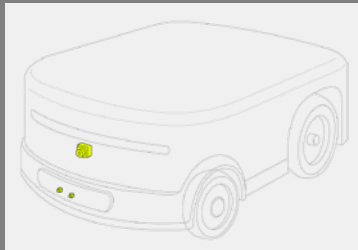
CONTROL SYSTEM

- + Automotive Ethernet Connector, ENNOVI-Net
- + High-Pin-Count Solutions
- + Multi-Row Board-to-Board Connector
- + Press-Fit



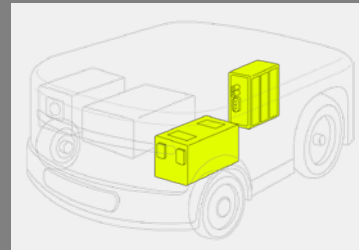
BATTERY SYSTEM

- + Cell Contacting System (ENNOVI-CellConnect) for
 - Cylindrical
 - Prismatic
 - Pouch



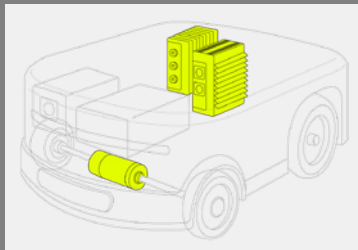
SENSING & NAVIGATION SYSTEM

- + LiDAR Interconnect
- + Camera Housing
- + Radar Interconnect
- + Sensor Interconnect
- + Press-Fit



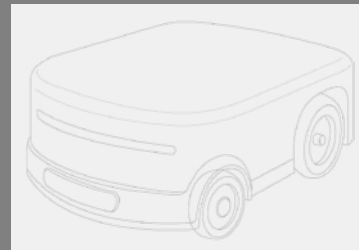
CHARGING SYSTEM

- + High Power Connector for Charging



DRIVE SYSTEM

- + AC & DC Molded Busbar
- + Flexible Busbar
- + Insulation Displacement Contact (IDC)
- + Motor Stator Busbar
- + Phase Busbar
- + Power Busbar PCB Connector, ENNOVI-BusMate



MECHANICAL STRUCTURE & SAFETY


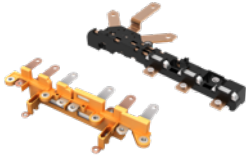


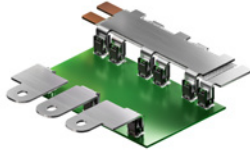

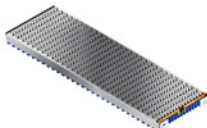
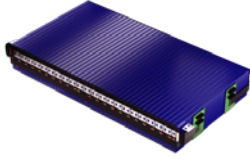

- + Chassis / Frame
- + Precise stamping parts

Custom Products – Power & Battery

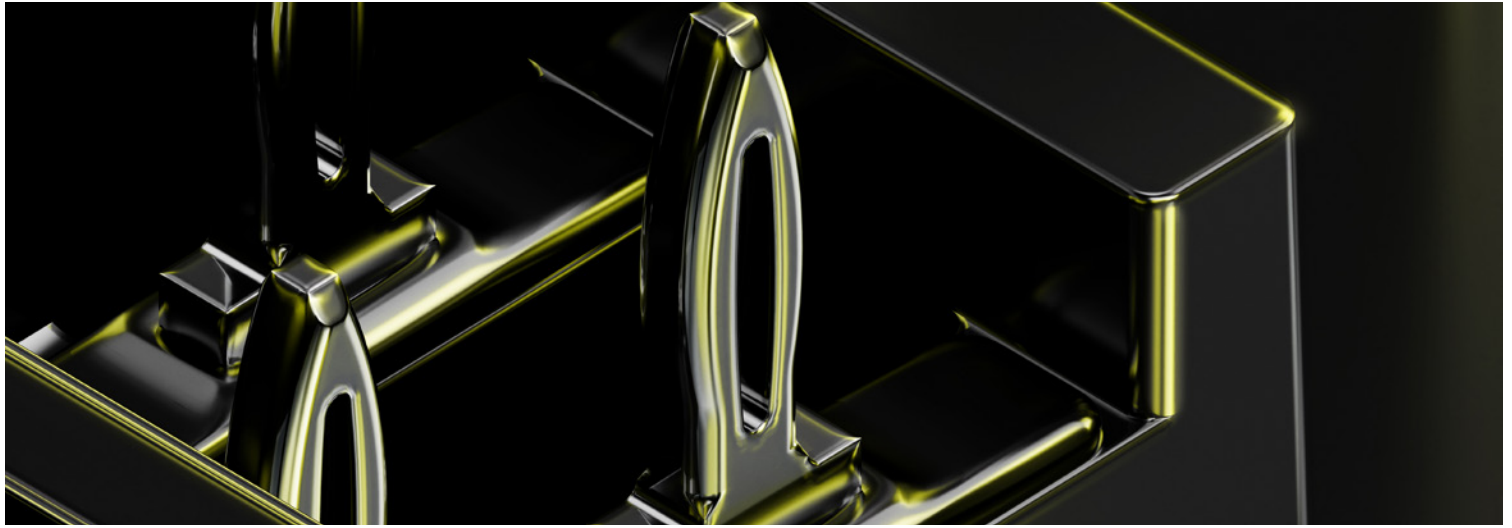
ENNOVI power & signal connectors, busbar solutions, and battery solutions

enable seamless integration into smart robotic ecosystems and robust connectivity for sensor arrays, motor drives, and control units to operate in dynamic industrial environments.

The table below provides a quick reference of ENNOVI's offerings. The products shown are customized and final designs may differ from the renderings.

PRODUCTS	PHASE BUSBAR →	AC & DC MOLDED BUSBAR	MOTOR STATOR BUSBAR →
IMAGES			
DESCRIPTION	Our multi-phase busbars provide reliable electrical connection performance in harsh environments while accommodating tight size and weight constraints, along with full custom design flexibility.	Our molded busbars support high voltage and high current designs, provide robust flexible interface options and allows integration of multilayer inductance cancelling.	Our motor stator busbars provide highly efficient power connectivity between motors and inverter control units, while improving current flow, minimizing resistance, and accommodating thermal cycling.
PRODUCTS	FLEXIBLE BUSBAR →	POWER BUSBAR PCB CONNECTOR, ENNOVI-BUSMATE →	HIGH POWER CONNECTOR
IMAGES			
DESCRIPTION	Our flexible busbars enable power connections with excellent vibration and shock absorption characteristics that improve electrical conductivity without compromising mounting strength or robust lifecycle performance.	Our power busbar connectors enable high-power densities needed for AMRs by providing robust, customizable, pluggable connectors that save space and improve assembly consistency.	Lightweight and compact, our high power connector supports multi-phase, multi-pole requirements, with options for integrated shielding and integrated current sensing.
PRODUCTS	CELL CONTACTING SYSTEM FOR CYLINDRICAL, ENNOVI-CELLCONNECT-ROUND →	CELL CONTACTING SYSTEM FOR PRISMATIC, ENNOVI-CELLCONNECT-PRISM →	CELL CONTACTING SYSTEM FOR POUCH, ENNOVI-CELLCONNECT-POUCH →
IMAGES			
DESCRIPTION	Our ENNOVI-CellConnect-Round supports robust connections of individual cylindrical cells with flexibility to create battery modules or advanced battery configurations.	Our ENNOVI-CellConnect-Prism supports robust connections of individual prismatic cells with flexibility to create battery modules or new advanced cell-to-pack and cell-to-chassis configurations.	Our ENNOVI-CellConnect-Pouch prioritizes cost effectiveness, faster manufacturing cycle time and protection against thermal runaway with advanced lamination and FDC technology.

Custom Products – Signal



PRODUCTS **AUTOMOTIVE ETHERNET CONNECTOR, ENNOVI-NET** → **HIGH-PIN-COUNT SOLUTIONS** → **LIDAR INTERCONNECT** **RADAR INTERCONNECT** →



DESCRIPTION

Our ENNOVI-Net connector is designed with Press-Fit pins to support in-vehicle networking applications reliably.

High-speed signaling in robust packaging, our high-pin-count solutions deliver dense pin-counts to your small-footprint applications.

Designed with Press-Fit pins, our LiDAR interconnect provides high-reliability connection and a short time-to-market.

Our radar interconnect houses and protects radar sensors from heat issues, electromagnetic interference, vibration, and shock.

PRODUCTS **MULTI-ROW BOARD-TO-BOARD CONNECTOR, ENNOVI-MB2B** → **PRESS-FIT** → **SOLDER BEARING LEADS (SBL)** → **INSULATION DISPLACEMENT CONTACT (IDC)** →



DESCRIPTION

With our proprietary snap-in biscuit design, our ENNOVI-MB2B allows multiple connector units to be snapped together without solder.

Our Press-Fit technology offers an excellent alternative for creating reliable electro-mechanical interconnects without using solder.

Our SBL technology creates leads with a precise amount of solder already on them, achieving a soldering consistency of 100%.

Our IDC technology provides an efficient and solder-free method of creating robust connections to magnet wires.

Need a custom solution?

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