PRODUCTS PORTFOLIO

TEC has a long-established position in the EMU market with a sales value of 2.5 billion euros. We provide our clients with three main types of products: EMU traction converter, auxiliary converter and network control systems.

We have also developed transport-grade wireless communication devices, axle temperature monitoring devices, water supply and sanitation systems, detection devices, lubricated bushings and sensors detecting brake block and other auxiliary products suitable for EMUs.

PAST PROJECTS

1. ARGENTINA ROCAL LINE EMU
   - The first project exports in batches, in vehicles named BR 860.
   - Technical Features: Regulated traction and auxiliary converter
   - Propulsion system parameters:
     - Inverter voltage (V): 1100
     - Middle DC voltage (V): DC 1500
     - Current capacity (A): 900
     - Output power (kW): 1800
     - EMU Parameters:
       - Power: 1800 kW
       - Formation of EMU: 2011
       - Maximum speed: 200 km/h

2. MACEDONIA EMU
   - Certified by TSI.
   - Technical Features: Integrated traction and auxiliary converters
   - Propulsion system parameters:
     - Inverter voltage (V): 2000
     - Middle DC voltage (V): DC 1500
     - Current capacity (A): 1000
     - Output power (kW): 1800
     - EMU Parameters:
       - Power: 1800 kW
       - Formation of EMU: 1143
       - Maximum speed: 180 km/h

3. DUAL VOLTAGE EMU
   - Dual voltage.
   - Technical Features: Integrated traction and auxiliary converters
   - Propulsion system parameters:
     - Inverter voltage (V): AC 1600 (3 KV)
     - Middle DC voltage (V): DC 1600
     - Current capacity (A): 1200
     - Output power (kW): 3200
     - EMU Parameters:
       - Power: 3200 kW
       - Formation of EMU: 6012
       - Maximum speed: 250 km/h

4. 350KM EMU
   - Tolling mode.
   - Technical Features: Integrated traction converter, auxiliary converter, cooling system and secondary filter loop.
   - Propulsion system parameters:
     - Inverter voltage (V): 2000
     - Middle DC voltage (V): DC 1500
     - Current capacity (A): 1200
     - Output power (kW): 3200
     - EMU Parameters:
       - Power: 3200 kW
       - Formation of EMU: 6012
       - Maximum speed: 350 km/h

5. VERY HIGH SPEED EMU CRH 300 AM
   - HIGHEST EXPERIMENTAL SPEED 360 km/h.
   - Technical Features: Auxiliary inverter grid-based power supply without network.
   - Propulsion system parameters:
     - Inverter voltage (V): 251
     - Middle DC voltage (V): DC 3600
     - Current capacity (A): 1000
     - Output power (kW): 1200
     - EMU Parameters:
       - Power: 1200 kW
       - Formation of EMU: 6012
       - Maximum speed: 360 km/h

6. PERMANENT MAGNET MOTOR EMU
   - PERMANENT MAGNET MOTOR.
   - Technical Features: Integrated traction converter and auxiliary converter
   - Propulsion system parameters:
     - Inverter voltage (V): 1710
     - Middle DC voltage (V): DC 3000
     - Current capacity (A): 1200
     - Output power (kW): 1800
     - EMU Parameters:
       - Power: 1800 kW
       - Formation of EMU: 6012
       - Maximum speed: 250 km/h

7. CRH400AF-100
   - INTERCITY EMU.
   - Propulsion system parameters:
     - Inverter voltage (V): 251
     - Middle DC voltage (V): DC 3600
     - Current capacity (A): 1000
     - Output power (kW): 1200
     - EMU Parameters:
       - Power: 1200 kW
       - Formation of EMU: 6012
       - Maximum speed: 250 km/h