



Global expert

in electrical power and advanced materials, Mersen partners companies around the world that drive today's industry and shape tomorrow's society.

A committed partner and core technology provider.

— **€950m** in consolidated revenues in 2019

— 6,800 employees

Present in 35 countries

At Mersen, our goal is to help you meet the technological challenges

that drive you forward and that shape our world. Whatever the sector and whatever the stakes, we draw on a broad range of products and services to help you define and design custom-fit solutions and processes.

Day after day, we deliver world-renowned expertise in electrical power and advanced materials to industry groups looking to develop their activity and meet tomorrow's technological challenges.



ADVANCED MATERIALS No.1 worldwide in brushes and brush-holders for industrial electric motors **ELECTRICAL No.2 POWER** worldwide No.1 in high-temperature worldwide isostatic graphite in the supply applications of passive and hybrid devices worldwide for power in graphite-based electronics and battery anti-corrosion systems equipment No.2 worldwide in industrial fuses No.2 worldwide in current collector devices for rail

Creating collective value

Mersen's two specialist business segments deliver expert solutions with the same exacting standards and focus for a range of different sectors including wind and solar power, electronics and fiber optics, rail, aerospace and aeronautics transportation, corrosive chemicals, process industries and more. We work hand-in-hand with industry manufacturers and operators to make tomorrow's solutions more efficient and more reliable. Wherever technologies are advancing and innovating, you'll find a little bit of Mersen.







Solutions that make a difference

Pushing boundaries is second nature at Mersen. For more than a century, we have provided industry players the world over with innovation to **improve** their product performance and services. Innovation that meets the constraints of technological change as companies move further and faster. Whether you need to cut costs, streamline your efficiency and the useful lives of your consumables, or even respond to changing consumer habits and preferences and the boom in the green economy, Mersen has a full spectrum of innovation in the service of industrial performance.





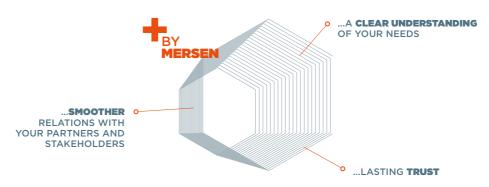


A core provider

Creating value for our clients means understanding their needs, their challenges and their constraints. It also means understanding their environments, both geographical and competitive.

With more than 50 industrial sites in 35 countries, Mersen works side-by-side with its clients at the heart of its markets, developing strong ties to offer made-to-measure, high value-added solutions at every level. A relationship of trust in transforming challenge to opportunity.





PERFORMANCE BY MERSEN

Efficiency
Competitiveness
Long life
Reliability
Protection



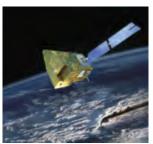
GRAPHITE SPECIALTIES

- Unique expertise in high-performance materials and solutions for high-temperature and extreme environment production or operation
- Graphite, carbon/carbon composite, carbon insulation, flexible graphite and silicon carbide (SiC) solutions for process industries, aerospace, solar PV and electronics.









NO. 2 WORLDWIDE
IN HIGH-TEMPERATURE
ISOSTATIC GRAPHITE
APPLICATIONS

ISOSTATIC AND EXTRUDED GRAPHITE

Complementary brands Ellor®, Cerberite®

RIGID AND FLEXIBLE CARBON INSULATION

Complementary brand Calcarb®

CARBON/ CARBON COMPOSITE

Complementary brand Aerolor®

SSIC SINTERED SIC

Complementary brands Boostec®, optosic®



Graphite electrode for electrical discharge machining

Long Fibre

and Short Fibre

insulation boards

for industriel

furnaces



Die for continuous casting of copper alloy, precious metals and cast iron



Soft-felt insulation for polysilicon furnaces



Support for hot-glass handling



for substrates in semiconductor manufacturing



Polysilicon manufacturing electrodes



Hybrid rigid/ soft-felt cylinderform insulation for heightened performance



PAN soft-felt permeable electrodes for energy storage



Rigid CBCF insulation for high-temperature sintering furnaces



Component support for high-temperature furnaces



Accessories



Brake disk

for aircraft

Structural component for space and ground telescopes



Mirror for space and ground telescopes



Plate for continuous flow chemical reactors



Mirror and laser scanner for industrial applications

FLEXIBLE GRAPHITE

Complementary brand

Papyex®



High-performance static graphite seals



Thermal protection and insulation



Dynamic graphite seals

ANTI-CORROSION EQUIPMENT

- Design and manufacture process equipment in materials resistant to corrosion: graphite, silicon carbide, reactive metals (tantalum, zirconium, titanium, nickel alloys) and fluoropolymers, for the chemicals industries
- Provide services and maintenance









NO. 2 WORLDWIDE IN GRAPHITE-BASED ANTI-CORROSION EQUIPMENT

ENGINEERING SYSTEMS









- HBr production
- Dilution and concentration of acids
- Other systems

HEAT EXCHANGERS

Graphite and silicon carbide

Complementary brands GAB Neumann, Graphilor®, Polybloc®







Shell and tubes

- Annular groove
- Polybloc*
- Cubic
- Plate and frame

HEAT EXCHANGERS
Reactive metals







Tantalum

- Zirconium
- Titanium
- Nickel alloys

COLUMNS, REACTORS AND PRESSURE VESSELS

Complementary brand CL-Clad®









- Zirconium
- Titanium
- Nickel alloys
- PTFE lined
- Graphite

PIPING, BELLOWS AND BURSTING DISCS









• PFA

• TFM

 Graphite bursting discs

POWER TRANSFER TECHNOLOGIES

- Technical solutions for motor applications and generators
- Customized solutions and dedicated enhancement and reengineering services
- On-site expert assessments
- Motor maintenance services
- R&D expertise









NO. 1 WORLDWIDE
IN BRUSHES AND BRUSH-HOLDERS
FOR INDUSTRIAL ELECTRIC
MOTORS

BRUSHES AND BRUSH-HOLDERS



For wind turbines



For motors and generators



For civil & military



For traction motors



Plug sets for thermal power plants

BRUSH ROCKERS & SLIP RING ASSEMBLIES



For motors and generators



For asynchronous motors



For hydro power generators



For hoisting

CURRENT COLLECTORS



Contact strips



3rd rail Current collector device shoes



Sliding contacts

COMPLETE SOLUTIONS



Pitch slip rings for wind application



MERSEN DustCollector



MERSEN Total Monitoring



Lubricating sticks & applicators for wheel/rail contact

MAINTENANCE



On site motor inspection



In situ refurbishment

Training

 Tools & devices for maintenance

ELECTRICAL PROTECTION & CONTROL

- A full range of fuses and fusegear systems and devices
- Surge protection systems and devices









NO. 2 WORLDWIDE IN INDUSTRIAL **FUSES**

UL FUSES AND FUSEGEAR



Ferraz Shawmut®

IEC FUSES AND FUSEGEAR



Ferraz Shawmut®

SURGE PROTECTION **DEVICES**

Complementary brand

Cirprotec®

POWER TRANSFER FOR RAIL VEHICLES



Bladed fuses



Helioprotection® gPV fuses



Power Line SPDs -NEMA UL/CSA

Earth return

current unit



Power Line SPDs -DIN Rail IEC/UL/CSA, PV



Low voltage

fuse systems

HSJ high-speed

fuses



3rd rail current collector device



Medium voltage fuses



Low voltage AC and DC switches



LED Lighting SPDs





Medium voltage

controllable fuses

DIN and French standard

high voltage fuses

Surge Protection Components



Fuse box



On-board switch

SOLUTIONS FOR POWER MANAGEMENT

 Passive and hybrid components for high-performance power conversion and batteries systems' improved safety and reliability









NO. 1 WORLDWIDE
IN THE SUPPLY OF PASSIVE AND HYBRID
DEVICES FOR POWER ELECTRONICS
AND BATTERY SYSTEMS

OVERCURRENT PROTECTION FOR SEMICONDUCTORS AND BATTERIES: HIGH-SPEED FUSES & HYBRID SYSTEMS



Ferraz Shawmut®



Standard and high performance power converter protection



Traction and railway converter protection



E-mobility protection



Hybrid DC protective devices

COOLING SOLUTIONS FOR POWER ELECTRONICS



Air heat-sink



Embedded heat-pipe air heat-sink



Liquid cold plate



Heat-pipe cold wall

BUSBARS



Laminated busbar for high-voltage inverters



Laminated busbar for high-frequency drives



Smart monitoring busbar for battery packs



Backplane power distribution laminated busbar

CAPACITORS

Complementary brand **FTCAP**®



Electrolytic capacitors



Film capacitors



Customized capacitors, for ex. capacitor bank on laminated busbar





6,800 employees in **35** countries

For more than 120 years,

the Group has gradually transformed itself into a world expert in two major fields: advanced materials and electrical power.



This transformation was achieved through mergers and acquisitions that enabled Mersen to strengthen its expertise and geographic positioning.



GROUP HEAD OFFICE

MERSEN

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UNITED STATES

ELECTRICAL POWER

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ADVANCED MATERIALS

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INDIA

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Design & Production: côtécorp. June 2020



GLOBAL EXPERT
IN ELECTRICAL POWER
AND ADVANCED MATERIALS

