

The background of the lower half of the page is a light gray color with a complex pattern of thin, orange lines that create a sense of depth and movement, resembling a perspective view of a grid or a series of overlapping planes. A large, bold orange plus sign is positioned to the right of the main text.

PERFORMANCE 
BY MERSEN

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.



€810m
in consolidated
revenues in 2018

6,500
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.”



+ Expertise —

ADVANCED MATERIALS

No.1
worldwide
in brushes
and brush-holders
for industrial
electric motors

No.2
worldwide
in high-temperature
isostatic graphite
applications

No.2
worldwide
in graphite-based
anti-corrosion
equipment

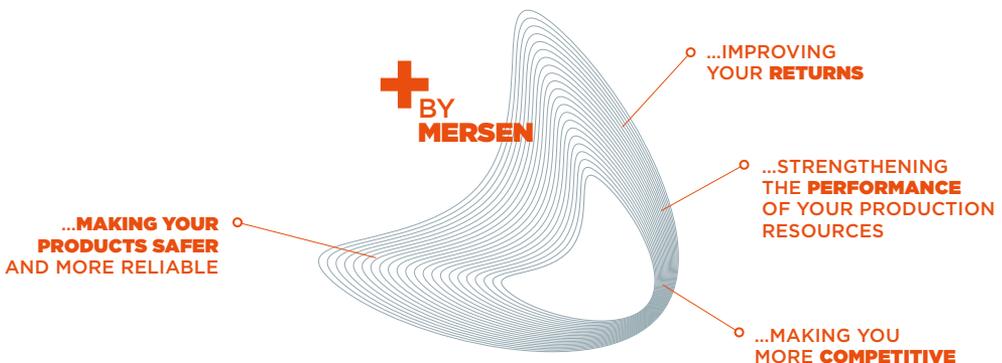
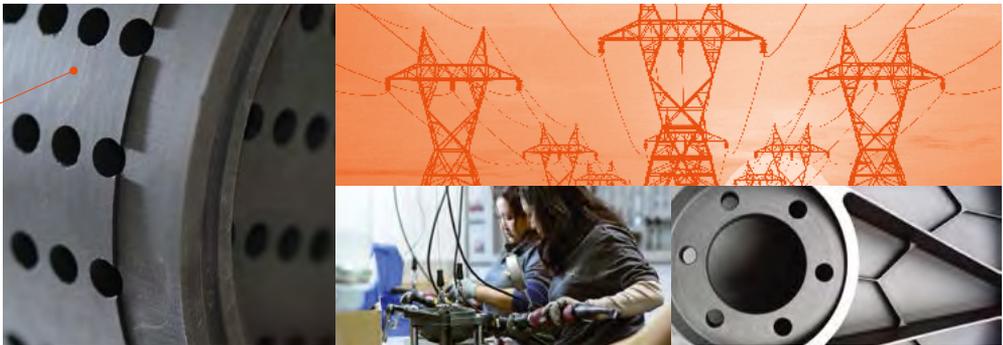
ELECTRICAL POWER

No.1
worldwide
in the supply
of passive
and hybrid power
electronics
components
and battery
systems

No.2
worldwide
in industrial
fuses

— Creating collective value

Mersen's two specialist business divisions 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.



+ Innovation

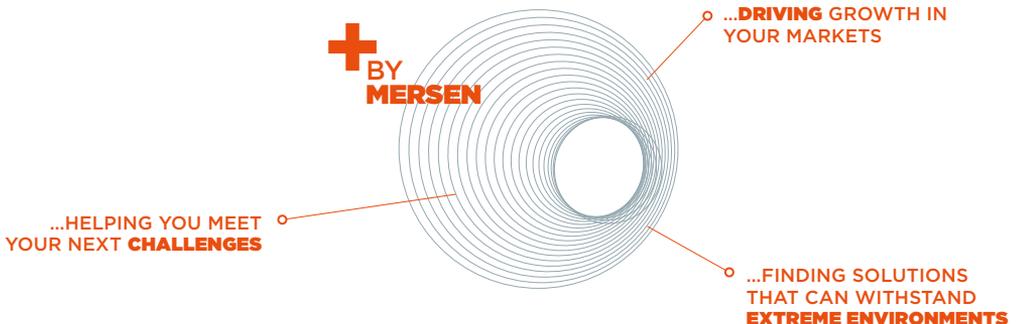
40%
of activity
dedicated
to sustainable
growth

200+
experts

15
R&D centers
around the world

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.



+ proximity

Present in
35 countries

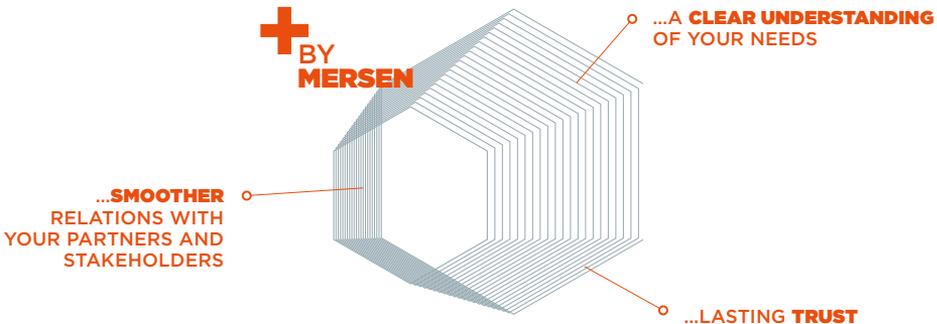
50
industrial
sites



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 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**

**ANTI-CORROSION
EQUIPMENT**

**POWER
TRANSFER
TECHNOLOGIES**

**ELECTRICAL
PROTECTION
& CONTROL**

**SOLUTIONS
FOR POWER
MANAGEMENT**

— A comprehensive offer

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 the process, aerospace, solar PV and electronics industry



NO. 2 WORLDWIDE IN HIGH-TEMPERATURE ISOSTATIC GRAPHITE APPLICATIONS

ISOSTATIC AND EXTRUDED GRAPHITE



Graphite electrode
for electrical
discharge machining



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



Support
for hot-glass
handling



Wafer holder
for substrates in
semiconductor
manufacturing



Polysilicon
manufacturing
electrode

RIGID AND FLEXIBLE CARBON INSULATION



Rigid CBCF
insulation for
industrial furnaces



Soft-felt insulation
for polysilicon
furnaces



Hybrid rigid/
soft-felt cylinder-
form insulation
for heightened
performance



PAN soft-felt
permeable
electrodes for
energy storage



Rigid CBCF
insulation for
high-temperature
sintering furnaces

CARBON/ CARBON COMPOSITE



Brake disk
for aircraft



Component support for
high-temperature furnaces



Accessories

SSIC SINTERED SIC



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



High-performance static
graphite seals



Thermal protection
and insulation



Dynamic
graphite seals

ANTI-CORROSION EQUIPMENT

- Design and manufacture of process equipment to resist corrosive environments in the chemicals industries: graphite, silicon carbide, noble metals (tantalum, zirconium), titanium, nickel alloys and fluoropolymers
- Maintenance services



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

ENGINEERING SYSTEMS



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

HEAT EXCHANGERS



- Block form:**
- in graphite
 - in silicon carbide



- Tubular form:**
- in graphite
 - in silicon carbide
 - in tantalum
 - in zirconium
 - in titanium
 - in nickel alloy

COLUMNS, REACTORS AND PRESSURE VESSELS



- In graphite
- PTFE lined
- CL-Clad® tantalum cladding
- In zirconium
- In titanium
- In nickel alloy

PIPING, BELLOWS AND ACCESSORIES



- PTFE lined
- PFA lined
- In tantalum
- In zirconium

BURSTING DISKS



In graphite

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



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

BRUSHES AND BRUSH-HOLDERS



For DC motors



For generators and alternators



For asynchronous motors



Brush-holders

SIGNAL AND POWER TRANSFER



For grounding devices



For industry

SLIP RING ASSEMBLIES



For generators and alternators



For asynchronous motors



For hydro power generators



For hoisting

CURRENT COLLECTORS



Pantograph strips



Third rail shoe



Sliding contacts

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



Bladed fuses



HSJ high-speed fuses



Medium voltage fuses



Medium voltage controllable fuses

IEC FUSES AND FUSEGEAR



Helioprotection® gPV fuses



Helioprotection® NH fuses



Low voltage switches



DIN high voltage fuses

SURGE PROTECTION DEVICES



Surge protection devices



Outdoor LED lighting protection



IEC SPD pluggable



IEC SPD non-pluggable

POWER TRANSFER FOR RAIL VEHICLES



Earth return current unit



3rd rail current collector device



Fuse box



On-board switch

SOLUTIONS FOR POWER MANAGEMENT

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



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

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



Cylindrical



PSC



NH



Hybrid protective devices

COOLING SOLUTIONS FOR POWER ELECTRONICS



Air-cooled radiator



Embedded heatpipe radiator



Liquid cooled cold plate



Standalone heatpipes

BUSBARS



Concentrated package for traction drive



Power distribution system for frequency inverter



Smart monitoring busbar for battery packs



Backplane power distribution laminated busbar

CAPACITORS



Electrolytic



Polymer lining



Capacitor bank on laminated busbar



**A responsible
company**
around
the world



6,500 employees
in **35** countries

**A balanced
Governance
model**

Mersen’s Board of Directors and executive management are committed to acting in the best interests of the Group and its stakeholders and to upholding the highest standards of ethics and transparency.

**A reference
framework
and commitment
to progress**

As a signatory of the United Nations Global Compact since 2009, Mersen policies and actions are guided by the organization’s principles and directives.

**Ethical practices
for an exemplary
model**

Mersen’s Code of Ethics applies individually and collectively to all of the teams and officers that make up the Group’s ecosystem around the world.

**Environmentally-
sound practices**

The Group pursues a collective and pragmatic approach involving all its employees, who are educated and receive training at every level of responsibility.



GROUP HEAD OFFICE

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ELECTRICAL POWER

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ADVANCED MATERIALS

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Tel: +91 803 094 6100



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GLOBAL EXPERT
IN ELECTRICAL POWER
AND ADVANCED MATERIALS



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