



CAT'ADVANCED WELD
The safe and reliable
exothermic connection

CATU
Sicame Group

About us

sicame
GROUP

Sicame Group is one of the key players in the electrical equipment business worldwide. It has been able to adapt and develop to support the continuous evolution of electricity infrastructure in France and around the world, and become the largest independent entity in its sector.

A true player in the energy transition, it offers its customers new products and services to improve energy efficiency, deal with environmental risks and support the development of electric vehicle and solar power plant markets.

+65

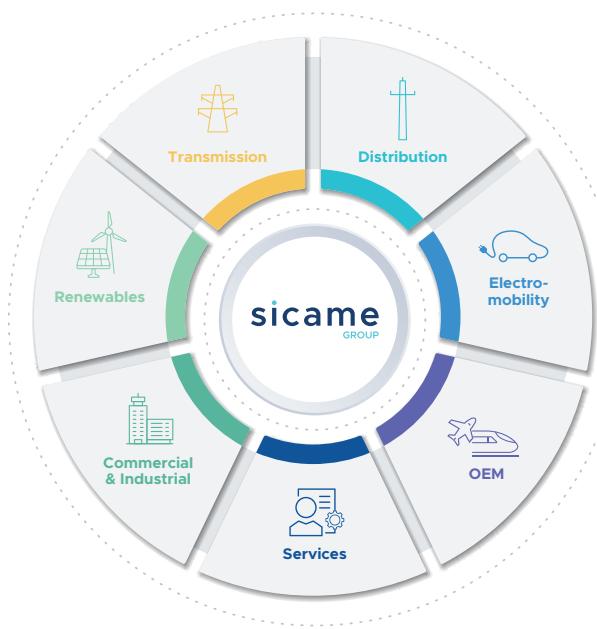
years of worldwide success

567 M€

2023 turnover

3.600

employees



Our fields of activity

Sicame Group is specialised in **products and services** related to transmission and distribution of **electrical energy**, renewables, electro-mobility, safety equipment and industrial applications.

5 continents

26 countries

50 companies
around the world

Products distributed
in **157** countries



CAT'ADVANCED WELD by CATU

The ultimate solution for safe and reliable exothermic connections

Exothermic welding is a unique process for the permanent connection of earthing conductors. The molecular bond of 2 conductors (such as copper or steel conductors) allows a high quality electrical connection. Exothermic connections are widely used for the earthing systems of electrical sub-stations installations, Commercial & Industrial installations, Telecom & Data center installations and Renewables Energies installations.

● Standards compliancy:

- IEEE 837 
- UL 467 

CAT'ADVANCED WELD

is designed to meet the highest standards of electrical connections. Our product ensures a permanent, high-quality bond that is both safe and efficient, making it the ideal choice for industrial applications.



Why choose CAT'ADVANCED WELD?

● Unrivalled safety:

- Electronic ignition:** our innovative electronic starter guarantees the safest installation process, significantly reducing risks for operators.
- No external power source needed:** simplifies the installation process and enhances safety.

● Superior performance:

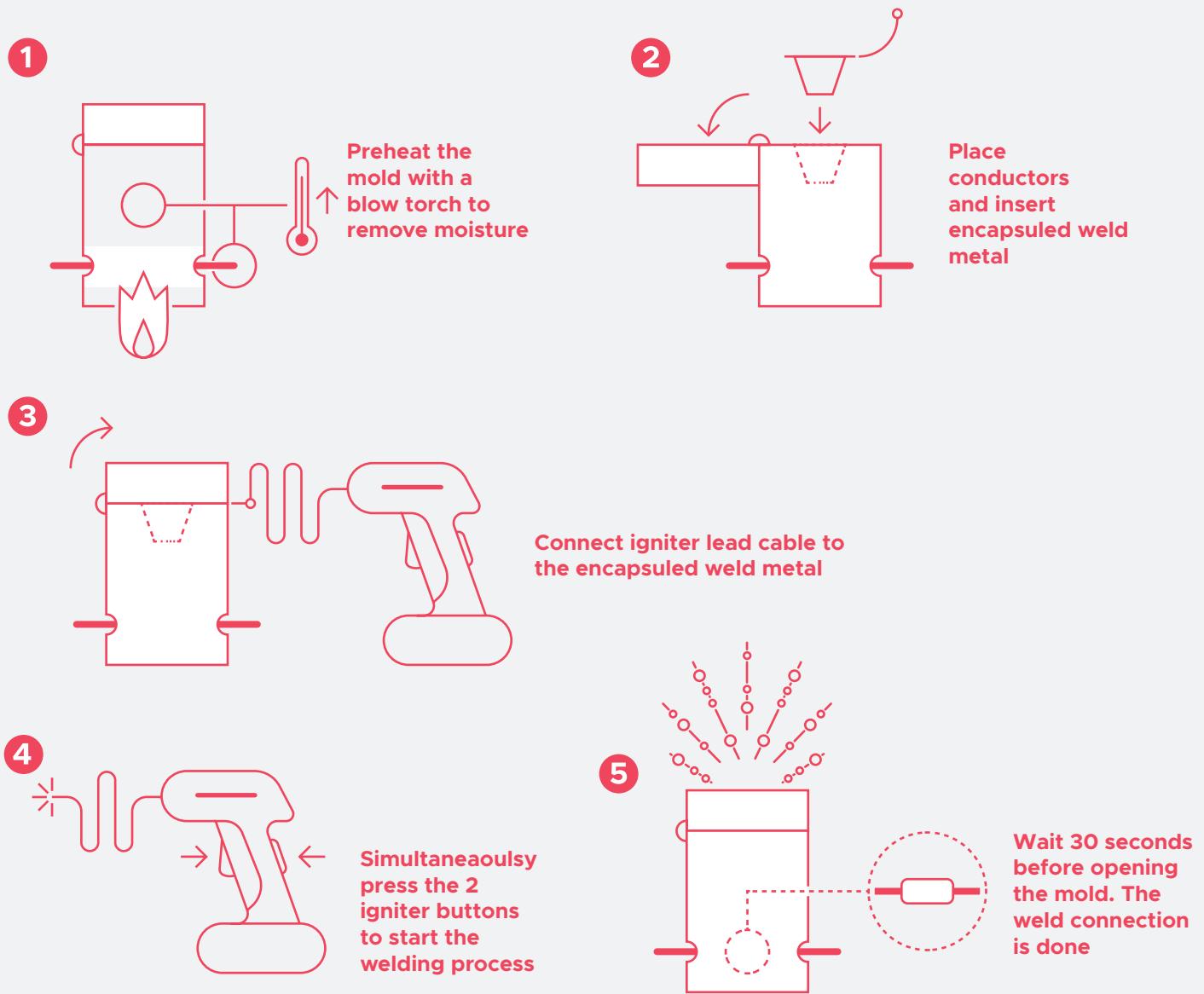
- High-quality electrical connection:** achieves a molecular bond that ensures long-lasting durability.
- Corrosion resistance:** designed to withstand harsh environments, ensuring reliability over time.
- High conductivity:** ensures optimal electrical performance.
- Mechanical strength:** exceptional resistance to mechanical stresses.





User-friendly:

- **Fast installation:** no need to handle welding metal – simply “plug & play”.
- **Easy to use:** simplified installation to reduce the risk of error.
- **Quick setup:** achieve a permanent connection in 5 steps.
- **Easy to store and transport:** no starting powder included in cup.

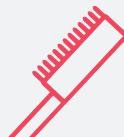


Important accessories:

Operators must wear appropriate safety equipment, including face shield and gloves, to ensure a safe working environment.

CATU can provide:

- safety equipment (including gloves and face shields).
- cleaning set to brush molds and conductors for the exothermic welding.
 - Reference to order: CEW-CS
 - Composition: soft and hard brushes and mold cleaning scraper.



CAT'ADVANCED WELD consists of the following components:

Graphite mold
Ref. CEW-XXXXXX



Handle clamp
Ref. CEW-HC



Cup of welding powder
Ref. CEW-WPWW

Electronic ignitor
Ref. CEW-EI



Lead interface

2 switch buttons

Safety light

LED display screen:

- battery level status
- number of welds performed



Gloveeasy



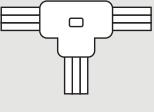
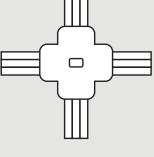
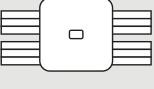
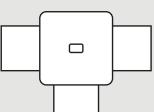
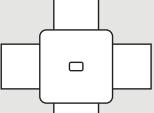


**4 rechargeable lithium batteries
(18650 type)**

Product	Characteristics	Ref. to order separately
Electronic ignitor	Safety light and warning sound Ignition start when pressing 2 keys simultaneously Minimum of 5000 welds Delivered with 1.8 m lead and Type C charger	CEW-EI
Handle clamps	Used to close the mold Unique handle clamp for all configurations Gloveeasy: user-friendly to operate with gloves Ergonomic Heat resistance	CEW-HC
Welding powder	Self contained welding material with copper oxide and aluminium Safer transportation and storage Available in 65 g, 90 g, 115 g, 150 g, 200 g ie : CEW-WP150 (welding powder 150 g)	CEW-WPXXX
Graphic mold	Delivered with metal plate indicating the quantity of powder required (from 65 to 200 g) Part number to be defined according to customer needs ie : CEW-050T050 (T connection for 2 cables of 50 mm ²)	CEW-XXXXXX

Extensive configurations to meet your needs

● CAT'ADVANCED WELD offers a range of configurations to suit multiple applications:

Connection type	Illustration	Primary conductor in mm ²	Secondary conductor in mm ²	Mold reference	Welding powder Reference
End to End connection		25	25	CEW-025E025	CEW-WP65
		35	35	CEW-035E035	CEW-WP65
		50	50	CEW-050E050	CEW-WP65
		70	70	CEW-070E070	CEW-WP65
		95	95	CEW-095E095	CEW-WP90
		120	120	CEW-120E120	CEW-WP115
T connection		25	25	CEW-025T025	CEW-WP65
		35	25	CEW-035T025	CEW-WP65
		35	35	CEW-035T035	CEW-WP65
		50	35	CEW-050T035	CEW-WP65
		50	50	CEW-050T050	CEW-WP90
		70	50	CEW-070T050	CEW-WP90
		70	70	CEW-070T070	CEW-WP90
		95	70	CEW-095T070	CEW-WP90
		95	95	CEW-095T095	CEW-WP115
		120	95	CEW-120T095	CEW-WP150
		120	120	CEW-120T120	CEW-WP150
		25	25	CEW-025X025	CEW-WP65
Cross connection		35	25	CEW-035X025	CEW-WP65
		35	35	CEW-035X035	CEW-WP65
		50	35	CEW-050X035	CEW-WP90
		50	50	CEW-050X050	CEW-WP90
		70	50	CEW-070X050	CEW-WP115
		70	70	CEW-070X070	CEW-WP115
		95	70	CEW-095X070	CEW-WP150
		95	95	CEW-095X095	CEW-WP150
		120	95	CEW-120X095	CEW-WP200
		120	120	CEW-120X120	CEW-WP200
		25	25	CEW-025P025	CEW-WP65
		35	25	CEW-035P025	CEW-WP65
Parallel connection		35	35	CEW-035P035	CEW-WP65
		50	35	CEW-050P035	CEW-WP90
		50	50	CEW-050P050	CEW-WP90
		70	50	CEW-070P050	CEW-WP115
		70	70	CEW-070P070	CEW-WP115
		95	70	CEW-095P070	CEW-WP150
		95	95	CEW-095P095	CEW-WP150
		120	95	CEW-120P095	CEW-WP200
		120	120	CEW-120P120	CEW-WP200
		25x3 mm	25x3 mm	CEW-253E253	CEW-WP90
		30x2 mm	30x2 mm	CEW-302E302	CEW-WP65
T connection for tape conductors		25x3 mm	25x3 mm	CEW-253T253	CEW-WP90
		30x2 mm	30x2 mm	CEW-302T302	CEW-WP90
Cross connection for tape conductors		25x3 mm	25x3 mm	CEW-253X253	CEW-WP150
		30x2 mm	30x2 mm	CEW-302X302	CEW-WP115

● Available sizes:

- **Round conductor:** from 25 mm² to 120 mm²
- **Tape conductor:** from 25x3 mm to 30x2 mm
- For other cross sections, please contact your sales representative

● Mold selection:

C E W

CATU EXOTHERMIC WELD

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X X X X X X X X

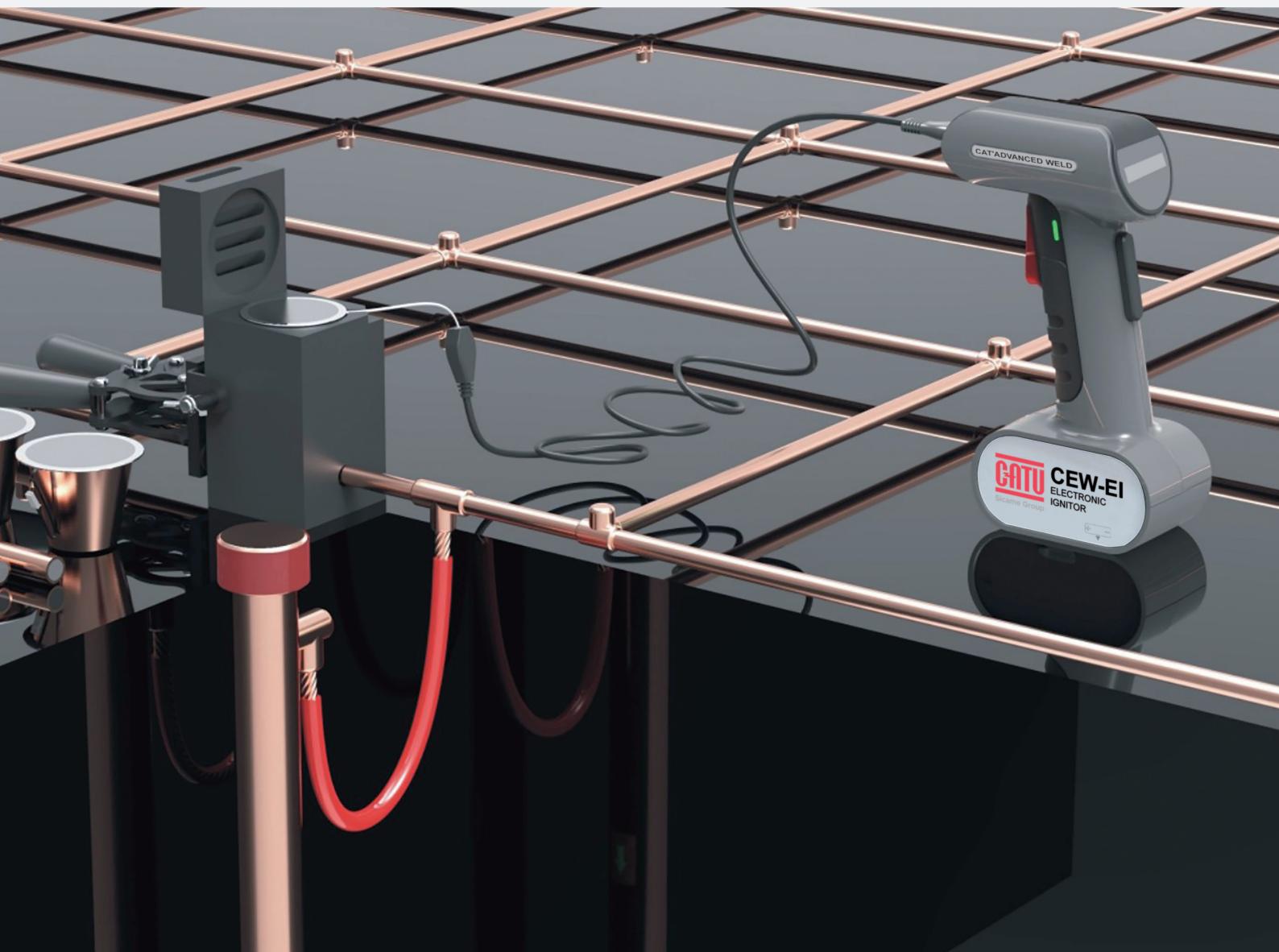
**Cross section
in mm²
Primary
conductor**
(025, 035,
050, 070,
095, 120,
253, 302)

Connecting type
- E (End to End
connection)
- T (T connection)
- X (Cross connection)
- P (Parallel connection)

**Cross section
in mm²
Secondary
conductor**
(025, 035, 050,
070, 095, 120,
253, 302)

Example:

Primary conductor: **50 mm²**
Connection Type: **T**
Secondary conductor: **35 mm²**
Reference: **CEW-050T035**





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