



SG POWER
PRODUCTS PRIVATE LIMITED
EVOLUTION THROUGH TECHNOLOGY

EXOTHERMIC WELDING SYSTEM



THE COMPLETE PROTECTION

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EXOTHERMIC WELDING SYSTEM



Exothermic welding is an innovative new way to connect two metals.

SG POWER Exothermic System uses the high-temperature reaction of copper oxide and aluminium inside a semi-permanent graphite mould, to form electrical connections (mainly between copper and copper or copper and steel).

No outside source of power or heat is needed when using the exothermic system.

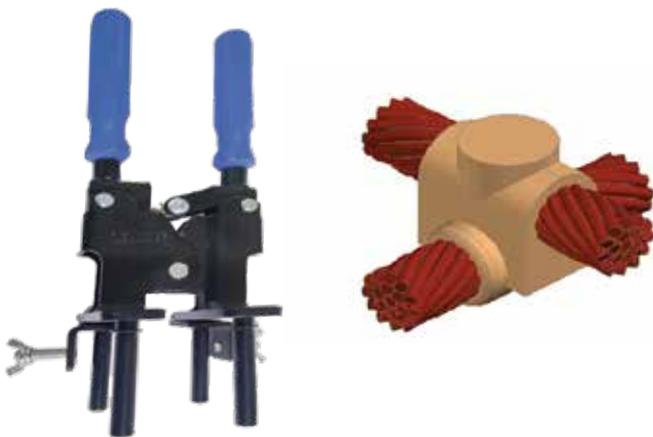
It is light and completely portable, making it ideal for field use. Creating an exothermic joint is a simple procedure which requires a mould, welding powder, handle clamp and various tools and cleaning accessories.

Typical Applications include:

- Sub Stations and Power Plants
- T&D Distribution Lines
- Rail Connections
- Telecommunications

Features:

- 1 High current carrying capacity
- 2 High current surge resistance
- 3 Sparkless connections
- 4 Stable transition resistance
- 5 High corrosion resistance
- 6 Good mechanical parameters
- 7 Quick connection time
- 8 Lightweight (kg) equipment needed
- 9 Can be used safely with minimum training
- 10 Can be used for over 45 standard connection configurations.
- 11 Completely portable





Exothermic welding is a self-sufficient process to achieve high quality electrical connections between metallic conductors such as copper, copper alloy or steel.



The exothermic reaction occurs in a graphite mold manufactured based on the dimensions of the conductors to be welded. A mold can perform over 60 welds when used under normal conditions. The reaction takes only a few seconds and does not require any external source of power, making the exothermic process particularly handy on-site.

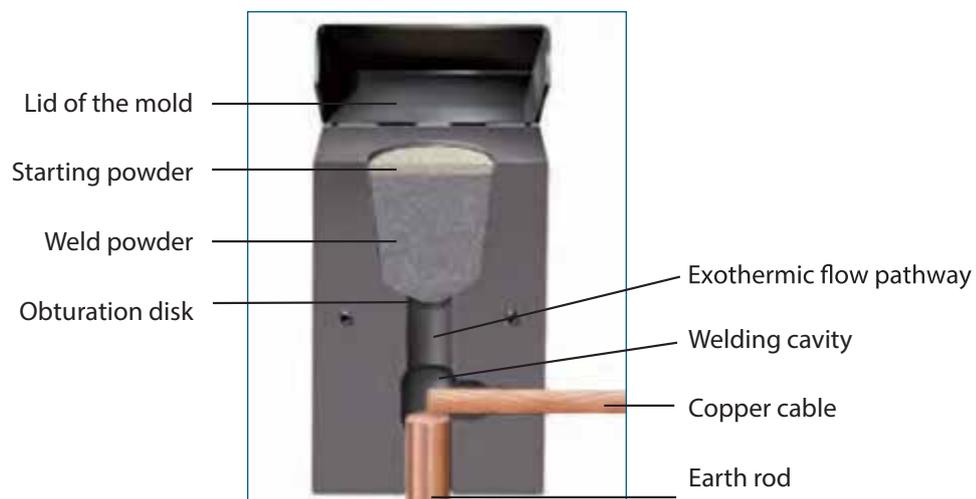
Exothermic welding is commonly used when building sub-station earthing circuits, power station, for cathodic protection, lightning protection, utilities and so on as it offers many advantages when compared with traditional crimped or mechanical connections.



The process provides a molecular bond that is not affected by short-circuit current. Several experiments have shown that conductors themselves melt before the exothermic weld point is affected. As the point of fusion of the exothermic connection is substantially identical to copper and with a cross-section superior to the conductors.



Material such as copper alloy, bronze, stainless steel, carbonate steel (railways) can be welded in such way. The weld point is an alloy without any dielectric influences, totally insensitive to corrosion and demonstrating optimum mechanical characteristics with time.





...many more

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