Exothermic welding withstands about 5 times higher than the clamp's connection in mechanical force. Unlike compression and bolt clamp, exothermic welded joint becomes a homogeneous metal.

Safety
- Non toxic and heavy metal
- Non self-ignite
- Ignition temperature at least 400° C
- Smooth reaction

Mould
- Earnest design: cavity, flow path.
- High quality raw material.
- Accurate tolerance.
- Duration: at least 50 times in normal usage.

Welding Metal
- Non toxic and heavy metal
- Steady burn without pop and fire out.
- No slag and porosity
- Consistency of color.
- High conductivity with at least 93% Cu and less than 2% Fe.
Lightning Protection

Kumwell Lightning Protection products are in accordance to international standards:

- IEC 62305 - Protection against lightning
- BS 6651 - Code of practice for protection of structures against lightning
- NFPA 780 - Standard for the installation of Lightning Protection System
- UL 96 - Lightning protection components

Bare Copper Wire System

- Blunt End Air Terminal
- Round Saddle Air Terminal Base
- Adjustable Saddle
- Cable Support
- One Hole Cable Grip
- Cable Cross Clamp

Copper Tape System

- Copper Tape
- Tape Saddle
- Adjustable Saddle
- Tape Support
- Copper Tape
- Polypropylene Support

Grounding

Grounding is one of the most important system and power quality. An appropriate grounding system provides certain level of safety to humans and property in case of equipment damages.

- Long life
- High resistance to corrosion
- Low resistance path to ground
- Ability to carry high currents
- Cost effective

Copper Bond Ground Rod

Application: Suitable for disperse current into the earth. Extensible to the length of ground rod by coupling.

Material: Copper-bounded ground rod is made by molecularly bonding pure electrolytic copper onto a low carbon, high tensile steel core with exceeding 0.254 mm (254 micron) thick. To ensure in safety and quality, it meets UL standard for grounding and bonding equipments.

Galvanized Steel Ground Rod

Application: Suitable for disperse current into the earth

Material: Hot Dip Galvanized Steel in accordance with ASTM A153 with the weight of zinc coating being 30 percent heavier than that specified in ASTM A153.
Kumwell Grounding & Lightning Protection System (KGLS)

Benefits:
To provide a complete solution system for electricity, telecommunication, transportation, industrial plant and buildings with a Grounding & Lightning Protection design using Kumwell Calculation Software to comply with international standards.

To provide a complete internal and external selection of Grounding & Lightning Protection materials such as Lightning Protection Components, Exothermic Welding, Copper Bond Ground Rod, Air Terminal, SPD and Copper Clad Steel Wire.
**Exothermic Welding**

Exothermic welding withstands about 5 times higher than the clamp’s connection in mechanical force. Unlike compression and bolt clamp, exothermic welded joint becomes a homogeneous metal.

**Safety**
- Non toxic and heavy metal
- Non self-ignite
- Ignition temperature at least 400°C
- Smooth reaction

**Welding Metal**
- Non toxic and heavy metal
- Steady burn without pop and fire out.
- No slag and porosity
- Consistency of color.
- High conductivity with at least 93% Cu and less than 2% Fe.

**Mould**
- Earnest design: cavity, flow path.
- High quality raw material.
- Accurate tolerance.
- Duration: at least 50 times in normal usage.

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<td>Mould, Horizontal Cable to Ground Rod</td>
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<td>Mould, Horizontal Thru Cable to side of Ground Rod</td>
<td>Graphite Mould</td>
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<td>Chain support “X” for Handle Clamp</td>
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<td>Vertical Beam Support “Y” Handle Clamp</td>
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<td>Handle Clamp Type C</td>
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<td>Busbar Brush</td>
</tr>
<tr>
<td>Busbar Brush</td>
<td>Cable Clean Brush</td>
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**PROJECT DEVELOPMENT GROUP**

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