

# Metal Sheathing Line Argon Arc Welding, Molding and Corrugating



To meet the needs of economic development, the power supply system is developing towards higher and higher voltage levels. In the power supply system, ultra-high-voltage power cables play a role in power transmission. These types of cables generally require a metal sheath structure to meet the performance requirements of the cable itself and the requirements of the environment.

At present, metal sheath of ultra-high voltage power cables is generally protected by inert gas (helium or argon), after the aluminum tape (stainless steel tape) is finely cut, the longitudinal seam is formed by a special mold and then the longitudinal seam is welded. Finally, it is produced by stretching, sizing and crimping. LT-HG200 argon arc welding, molding and corrugating production line provided by our company is a special equipment for manufacturing high-performance ultra-high voltage power cable metal sheath.

The technical difficulty is welding process, but we have rich experience in this field. By drawing on the technical characteristics of the European welding production line, taking advantage of the shortcomings, continuous technological innovation, the reliability, stability and convenient operation of the equipment welding have become the domestic leading level, which can be comparable to European equipment.

## 1. Features

1. Easy to operate. The welding torch can meet the arbitrary adjustment of the three axis directions of X, Y, and Z, with the welding gun rapid turning device, and the welding gun automatic tracking system to ensure that the welding pin is always directly above the welding seam.
2. Stable operation. Specially designed forming tool and multi-channel horn die gradual forming to ensure stable welding.
3. Humanized design. The production line can roll ring patterns and spiral patterns, patterns of rolling can be concentric or eccentric. The depth and pitch of corrugating can be adjusted online.

## 2. Main Technical Parameters

Welding Tube Outside Dia. (mm)	Φ60-Φ200
Welding Metal's Thickness (mm)	Aluminum:0.8-4.0
	Copper: 0.3-1.5
	Stainless steel: 0.3-1.0

Welding Speed	0-4.6m/min, continuous adjustable
Corrugation Type	Helical or annular
Corrugation Thread Pitch (mm)	10-50
Corrugation Depth (mm)	1.0-8.0
Protect Gas	Argon, Helium (For aluminum)

The equipment adopts specially designed forming tools and crimping machines, so that it has excellent cable manufacturing stability and is the first choice for the manufacture of ultra-high voltage power cable metal sheaths.

### 3. Production Process

Cable pay off → Core kickstand → Metal tape pay-off → Strip edge trimmer → Scrap take-up → Precision longitudinal wrapping → Argon arc longitudinal butt welding → Arc monitoring → Stretch sizing → Caterpillar capstan → Corrugating machine → Take-up

### 4. Corrugating Effect



In addition, the equipment also can weld and corrugate copper tapes according to different product needs.

Product  
link :

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