

IGBT Inverter Air Plasma Cutting Machine

This air plasma cutting machine utilizes IGBT inverter technology. It is widely applicable in industries like power supply, metallurgy, and shipbuilding for cutting carbon steel, alloy steel, stainless steel, and more with compressed air.



Overview

Industrial Plasma Cutting Performance

The LGR160 is a high-performance IGBT Inverter Air Plasma Cutting Machine designed for demanding industrial environments. It utilizes advanced full-bridge inverter technology with dual IGBT components to deliver stable cutting current even under fluctuating voltage conditions. This unit offers exceptional precision and efficiency for cutting a wide range of conductive metals, making it an essential tool for sectors like shipbuilding, petrochemicals, and heavy manufacturing.

Technical Specifications

| | |
|----------------------------|------------------|
| Input Power Voltage | 380V±10% 50/60Hz |
| Rated Input Power Capacity | 15 KVA |
| Output Current Adjustment | 30-160 |
| Duty Cycle | 60 % |
| Max Cutting Thickness | 35 mm |
| Efficiency | 85 % |
| Power Factor | 0.93 |

Physical Attributes

| | |
|------------------|----------------|
| Protection Class | IP21S |
| Insulation Class | F |
| Weight | 55 Kg |
| Dimensions | 650×330×620 mm |

Key Features

Industry Applications

- Petroleum
- Chemical Industry
- Power Supply
- Metallurgy
- Shipbuilding
- Boilers
- Pressured Vessels
- Pipes
- Vehicles
- Aerospace

Safety & Protection

- Under-voltage protection
- Over-current protection
- Over-heating protection
- Over-loading protection
- Phase lack detection
- Gas lack detection

Applicable Materials

Carbon Steel, Alloy Steel, Stainless Steel, Cast Iron, Aluminum, Copper