



D-12000 Air Plasma Power Supply

The D12000 is the ultimate machine for air plasma cutting applications. Capable of cutting up to 2.5" thick of steel plate (production cuts of up to 2"), the D12000 is both versatile and practical for cutting and gouging applications. For thin sheet metal, the D12000 can run production cuts at speeds of over 60 inches per minute (152 cm/min).

The D12000 utilizes an exterior interface box (FDWF-0005) for digital interfacing with the FD11 robot controller.

Item	Specification
Name	TRC-121
Cutting Mode	Air Plasma Cutting
Number of Phases	Three Phase
Rated Input Voltage (Auto-	230V / 460V \pm 10% (50/60 Hz)
Rated Input	28.3 kVA
Rated Output Current	120 A
Rated Output Current	30 - 120 A
Rated Duty Cycle	100%
Temperature Rise	+320° F (+160° C)
External Dimensions	17.8" x 30.7" x 32.4" (453mm x 780mm x 823mm)
Weight	384.0 lbs. (174.0 kg)

D12000 Key Features & Benefits

Safe & Economical Alternative to Oxy-fuel

Capable of clean cutting nearly 2" (5.1cm) carbon steel and aluminum alloys, the D-12000 is a safe and economical alternative to oxy-fuel cutting. The D-12000 system offers more unique, user friendly features than any other machine in its class.

Long Consumable Life

The D-12000's built-in water circulator provides very efficient cooling of the torch head, and circulates water directly inside the electrode for extended consumable life. Compressed air is used for cutting and cooling the torch, thereby eliminating the need for expensive gases.

Self-Diagnosis Feature

Upon turning on the power source a self-diagnosis function takes place that will not allow the system to operate if an abnormal condition exists. Indicator lamps identify operational problems. Alarms will sound when unsafe conditions happen such as removing torch consumables with control power on.

Torch Guard Feature

Our patented "TORCH GUARD" feature monitors electrode consumption and indicates replacement time avoiding torch head damage from over use of the electrode.

Semi-Automatic & Robotic Cutting

The D-12000 can be setup for both semi-automatic (manual) usages, as well as integrated with our FD Series Arc Welding Robots. (Integrating to a robot requires internal interface box FDWF-0005). Please contact your regional sales manager for more information regarding robotic applications.

Other Key Features & Specifications

- Only 3 consumable parts.
- Production cuts up to 2" (5.1cm) thick material (including Aluminum).
- Maximum cut up to 2-1/2" (6.4cm)
- Water cooled - 100% duty cycle.
- Built-in water circulator extends torch and consumable life.
- Faster, safer, and more economical than oxy-fuel on 1" (2.5cm) carbon steel.
- Superior gouging capabilities.
- I/O receptacle for automated cutting
- Built-in torch guard function (Alarm indicates replacement time of tip and electrode)

