



PORTABLE OR FREE-STANDING WELDING SYSTEM

The portable version of the Mavrix Roll Arc 5000 is an automatic system for arcing “Chapisco” during the shredding process. Designed for use in the mill, the machine can be configured with a single or dual welding torch. The free-standing version has been designed for use in a maintenance facility and is capable of welding buffer layers, arcing “Chapisco” and hooks “Picote”.

Light weight design allows installation by a single operator and can be easily relocated from one location to another.

Benefits:

- Lower consumable consumption by as much as 75%.
- Reduced time, dual torch offers a significant advantage to manual methods.
- One operator can operate (2) torches with a single handheld pendant.
- Repeatability – little to no variation in patterns.
- Improved health and safety – remove the operator out of the hazard area of fumes.
- Can be used in the mill or out.
- Three unique weld modes for specific process control.

———— COMPONENTS → →



RA5000 Sugar Disc Welder



Opening Style Carriage for ease of assembly
Zinc plated steel beam
Sealed motors with encoders
Flexible torch mounting



Polycarbonate protective cover
Durable Light Weight Fiberglass Enclosure



Operator Pendant

SYSTEM COMPONENTS

MAIN CONTROL

The main control is a PLC based system with 7" color HMI. Capable of operating on 100 to 240 VAC.

OPERATOR PENDANT

A compact, lightweight sealed operator pendant allows complete control of the welding process.

MAIN BEAM

High strength structural steel beam, blue zinc plated with welded in place gear rack. Beam mounting u-brackets provide for portable applications.

X AXIS TRAVEL CARRIAGE

The main travel carriage uses a 12 VDC gearmotor with encoder for precise step distance control. Fitted with a steel housing provides protection in harsh shredding environments.

Y AXIS TRAVEL CARRIAGE

The Y axis (Weld Arm) travel carriage uses a 12 VDC gearmotor with encoder for precise step distance control. Fitted with a steel housing, provides protection in harsh shredding environments.

WELD ARM

Made from structural steel, the weld arm beam is plated in blue zinc with welded gear rack. Dual torch mounting system provides a highly flexible torch adjusting system.

WELDING TORCH(S)

A 600-amp open arc torch with a 22- and 30-degree curved nozzle and brass union allows for multiple torch configurations.

WIRE FEEDER

The Mavrix 4 roll wire feeder provides positive feeding.

WIRE DISPENSING

A 33# spool and 60# coil wire feed reel is mounted to a base.

WELD POWER SUPPLY INTERFACE

The Mavrix contactor cord is used to interface with the customers welding power supply. A loss of current sensor is part of the cable assembly.

LOSS OF MOTION

Portable system are equipped with loss of motion sensing to stop welding during a mill stoppage.