



MAVRIX Plate Overlay System Products

Mavrix has custom manufactured a variety of controls for plate overlay work. We can build only the wire feeder controls or one that will run the entire system.



Power

This is the master power on/off. Typical voltage is 115-120 VAC.

Plate Travel

Plate travel controls a motor and gearbox that moves the plate cart under the torches.

Step Timer

Step timer controls how long the torch actuator will run to change the torch positions.

Step Arm

The step arm controls a drive that moves all of the torches at the same time to create a step over for the next longitudinal weld. The combination of step arm speed and time will control the distance that the torches move.

Weld Weave

Weld weave or oscillation controls the speed of oscillation. This control used a 90 VDC motor and an eccentric to move all of the torches from side to side while the plate traveled below. This oscillation creates a wide bead up to 38-40 mm but also put a high concentration of heat into the plate.

Run/Standby

Standby is manual mode and Run starts the automatic welding process.

Weld Station Control

Each weld station controls an individual power supply per torch

Voltage

The voltage adjust provide remote adjustment of power supply voltage and a meter read out to ensure all torches are operating the same.

Wire Feeder

Wire feed controls the speed of the wire feed and the resultant amperage. The wire feeder has three modes of operations.

Off- Feeder will not run and power supply will not turn on.

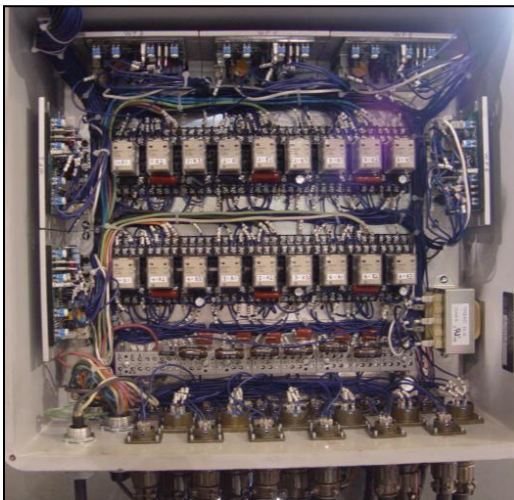
Continuous-In this mode the wire feeder will run all the time the machine is in automatic including the step over movement

Interrupt-The wire feeder stops feeding wire during the step over movement.

Torch lift

Torch lift provides an ability to change the torch height at any time. In most cases this height adjustment is done using a small gear motor.

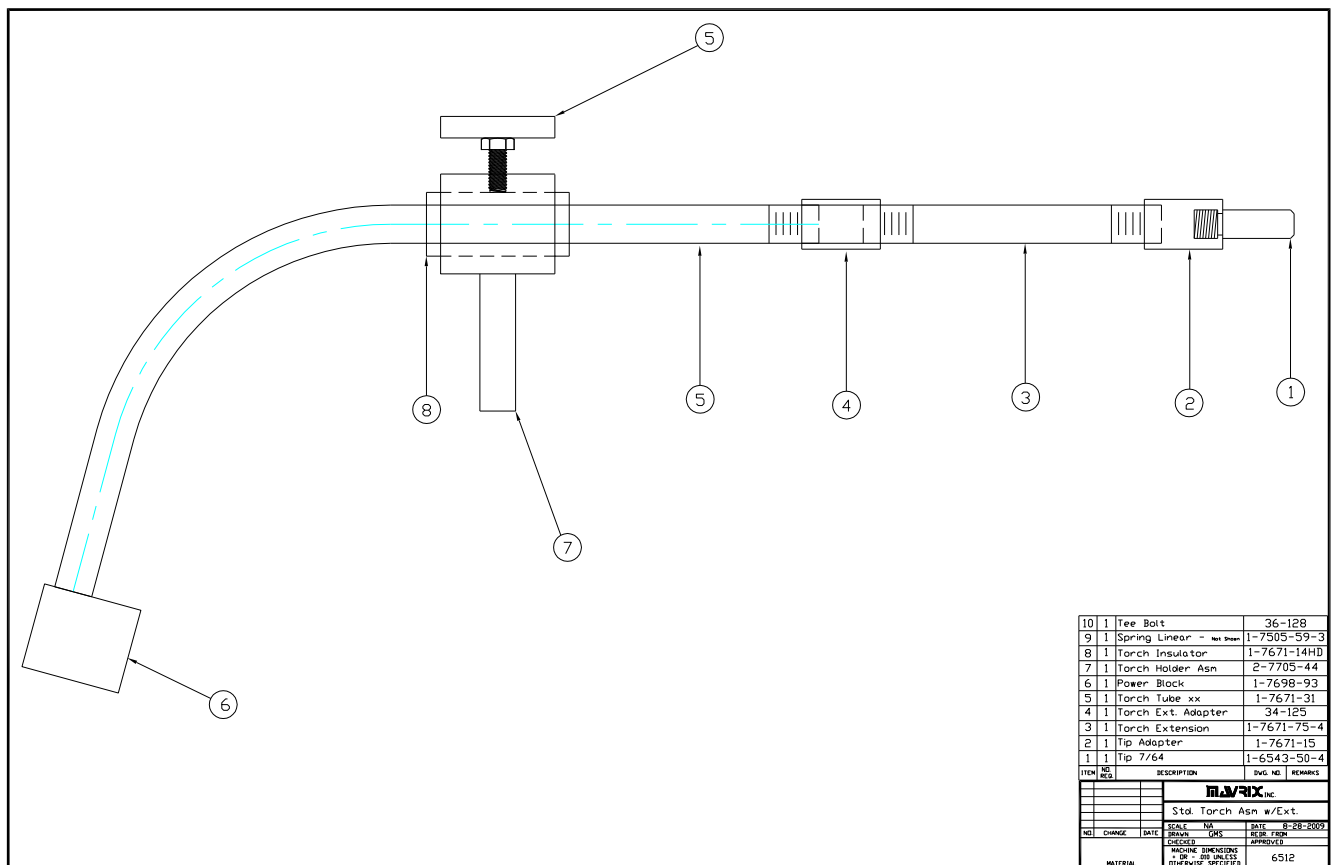
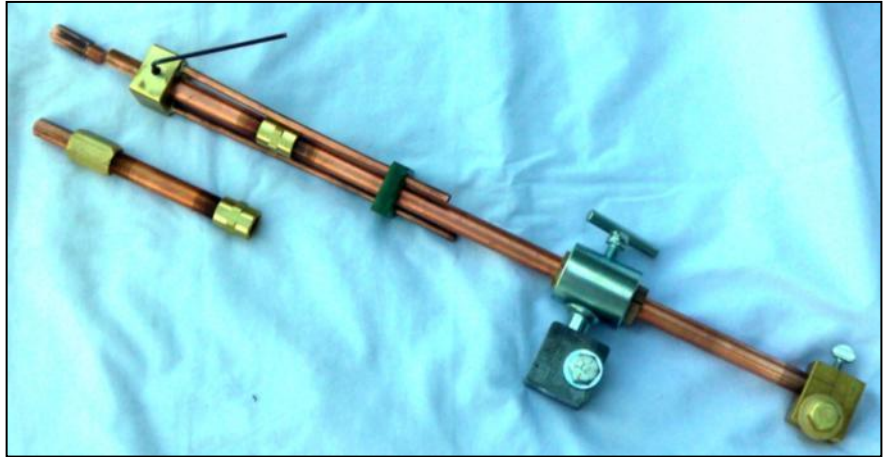
The control shown below was custom built to control only the 6 wire feeders. All of our controls use solid state controls and are proven to perform in the harsh welding environments.



Torch Assemblies

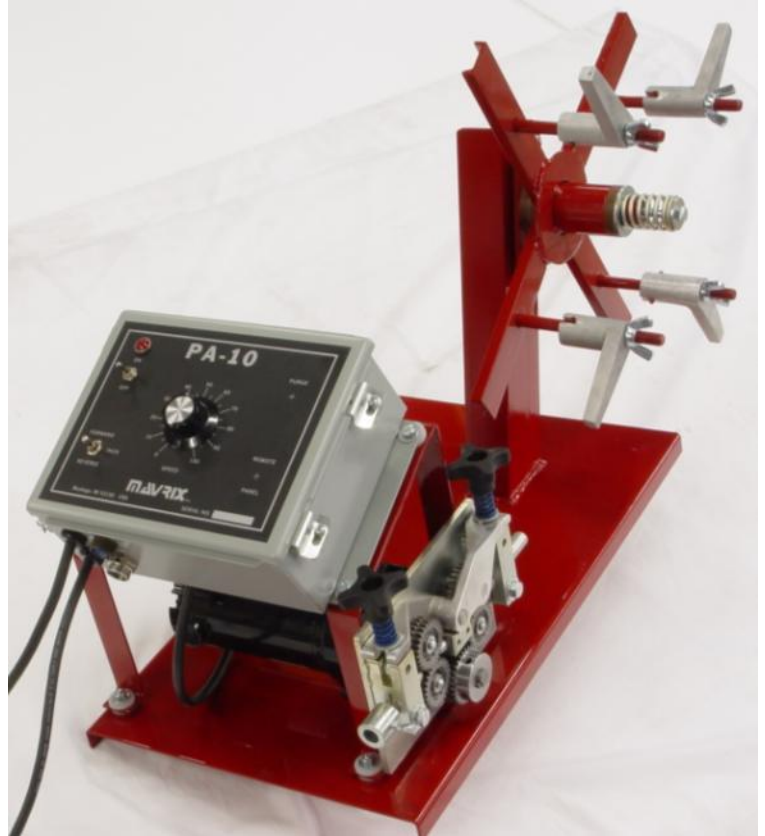
The torch assembly shown to the right is a simple water cooled design to be used with a customer supplied water chiller.

The CAD file below shows our typical open arc welding torch assembly. We can custom build a torch to meet the customer's desired length.



Wire Feeders

The Mavrix PA-10 is a stand allow wire feeder that is sold separately. This unit can be equipped with a hand gun and contractor cord to turn on the customer supplied power supply.



The wire feeder to the right is shown with the optional gas solenoid and a post mounting. This unit is intended to plug directly into a Mavrix control.



FOR MORE INFORMATION, PLEASE CALL, WRITE or EMAIL

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