

Arcair



ARCAIR-MATIC®

N7500

AUTOMATED GOUGING SYSTEM

www.thermadyne.com/arcair

The Arcair-Matic® N7500 gouging system delivers high productivity for any metal fabrication operation where gouging and welding represents a large portion of the work schedule. The system can be utilized on almost all metals.



FIVE TIMES FASTER, TEN TIMES LESS GRIND

A typical automated gouge requires 10 times less grinding and improves your overall metal removal productivity.

The Arcair-Matic N7500 gouging system will produce excellent U-groove edge preparation and back-gouging for both plate and pipe, and with less edge distortion than flame cutting. It can J-groove a 1" (25.4 mm) thick plate about 50% faster than an automatic flame torch can bevel. And since a J-groove requires a lot less fill metal than a bevel joint, welding is done at 1.5 times the speed.

EASE AND VERSATILITY FOR HUNDREDS OF METAL FABRICATION USES



**Ensures conformity to
pre-determined, pre-selected
groove depth**

while maintaining a tolerance of $\pm 0.025"$ (0.635 mm)
throughout the length of the gouge.





Digital LCD Remote Pendant

- * Ease of use – start/stop function, travel delay, electrode diameter
- * Rough machining feature to stall the feed of the electrode to compensate for pitted area or out-of-round steel rolls, thereby maintaining the concentricity of the shaft/roll
- * "Travel delay" function assures excellent groove geometry at the very beginning of the groove, thereby eliminating the need for a starting pad
- * Shock-absorbent bumper
- * Patent Pending



Torch Head

- * Redesigned Torch Head with an extended front end – gives the operator better view of the weld seam that's being back-gouged
- * Can be oriented 360 degrees in any direction giving flexibility to fit the application



Digital Circuitry Control Box

- * Redesigned digital circuitry control box
- * A synergic mode ensures conformity to pre-determined, pre-selected groove depth and width specifications

Arcair®, the industry leader in air carbon-arc products, introduces the Arcair-Matic® N7500, a next generation automatic gouging system that provides superior performance, flexibility, versatility, and safety.

Covering a broad range of applications, the Arcair-Matic N7500 gouging system can be utilized on almost all metals, including stainless steel, carbon, manganese, and chrome-moly steels. It is perfect for applications on pressure vessels, wind towers, shipbuilding, railroads, bridge and girder manufacturing, and with heavy equipment used in mining industries.

As a bonus feature, use the remote pendant to track actual arc time to help schedule routine maintenance; additionally, it enables you to monitor and manage cost of the gouging project / job.

The heavy duty remote pendant is enclosed in a splash-proof panel to operate in high humidity/outside conditions and is designed to withstand high impact.

The Arcair-Matic N7500 can be used with CC/CV power supplies available in the industry. It utilizes the contactor in the welding power supply unit thereby eliminating the need for the external contactor used in prior models.

The multi input voltage platform enables use in all markets around the world, servicing both US (110VAC) and International (220VAC).

The N7500 is equipped with important safety features that will shut down the system if it senses no current or low voltage. These functions ensure optimum groove quality and prevent damage to the equipment and work.

EASY TO USE

All functions can be controlled, from determining gouge parameters, start/stop function, travel delay, and the capability to manually feed or retract the electrode in the torch head. The operator can view the amperage and voltage during gouging sequence easily while maintaining the electrode on the weld seam that's being back gouged.

The Remote Pendant provides complete control where it needs to be... in the operator's hands.



VERSATILITY

A single electrode contact shoe assembly accepts the entire range of Arcair Jetrods® Jointed electrodes from 5/16" (7.9 mm) through 3/4" (19.1 mm).



IMPROVED PRODUCTIVITY

Faster metal removal over any other conventional means in today's market. A gouge depth of 1.5 times the diameter can be achieved in a single pass while providing a machine-like U or V-shaped groove.



ORDERING INFORMATION



Complete N7500 Gouging System

Includes Remote Pendant, Control Box and Torch Head

(Part No. 65-991-015)

System Cable Assembly Options*

110V AC Power Supply Cable

Part No.	Description
96-130-304	10 ft (3 m)

220V AC Power Supply Cable

Part No.	Description
96-130-305	10 ft (3 m)

Pendant Cable Assembly

Part No.	Description
96-170-069	14" (0.36 m)
96-170-070	15 ft (5 m)
96-170-071	25 ft (8 m)
96-170-072	50 ft (15 m)

Motor Cable Assembly

Part No.	Description
96-130-335	3 ft (0.9 m)
96-130-336	15 ft (5 m)
96-130-337	25 ft (8 m)
96-130-338	50 ft (15 m)

Power Supply Communication Cable Assembly

Part No.	Description
96-130-339	15 ft (5 m)
96-130-340	25 ft (8 m)
96-130-341	50 ft (15 m)

DC Power Cables

Part No.	Description
96-130-254	4 ft (1.2 m)
96-130-256	15 ft (5 m)
96-130-300	25 ft (8 m)

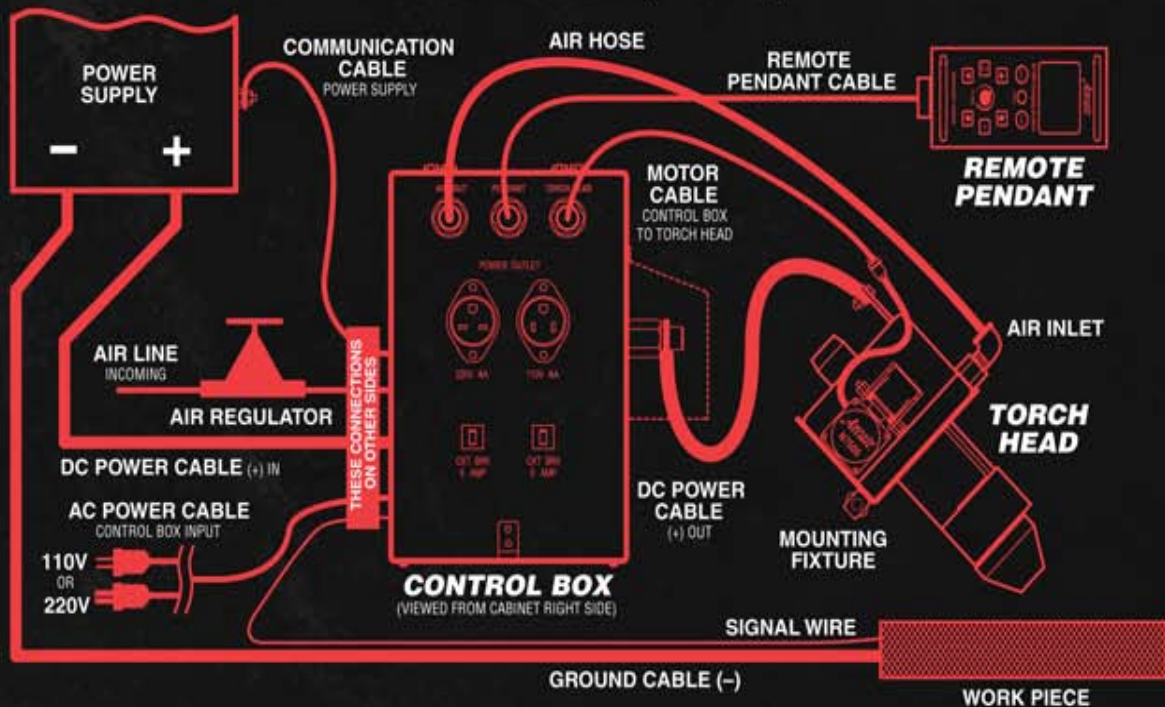
NOTE: Minimum 2 Power Cables Required

Air Hose Assembly

Part No.	Description
94-396-051	4 ft (1.2 m)
94-396-049	15 ft (5 m)
94-396-048	25 ft (8 m)

*Must be ordered separately

N7500 Assembly Set-Up



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