

ARCAIR-MATIC N7500 GOUGING SYSTEM

The Arcair-Matic® N7500 gouging system is highly productive for any metal fabrication operation where gouging and welding represents a large portion of the work schedule. This applies to almost all metals, including stainless steel, carbon, manganese, and chrome-moly steels.

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.

A single electrode contact shoe assembly accepts a full range of jointed electrodes from 5/16" (7.9 mm) through 3/4" (19.1 mm).



Five Times Faster, Ten Times Less Grinding

INSURE QUALITY AND CONSISTENCY WITH PRE-SELECTED GROOVE DEPTH

Arcair®



WELDING AND CUTTING





KAT® Carriage System

- ★ Designed to operate on rigid or flexible track
- ★ Provides precise control of the application parameters
- ★ L.E.D Display for easy visibility of the application parameters during operation
- ★ Can be adapted for both Welding and Cutting applications

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®, an industry leader in air carbon-arc products, introduces the Arcair-Matic® N7500, a new and improved automatic gouging system that provides versatility, flexibility and safety features built with an enhanced gouging function. Combined with the KAT® Automated Carriage further improvements to productivity, consistency and quality are achieved.

Covering a broad range of applications, this automated gouging system can be utilized on almost all metals, including stainless steel, carbon, manganese, and chrome-moly steels. It is perfect for work with 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 remote pendant is enclosed in a splash-proof panel design to operate in high humidity/outside conditions and withstand impact from a distance of three feet.

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.

One unit can service both US (120VAC) and International (220VAC) markets.

As a safety feature, “NO CURRENT” detect and low voltage functions that shut down the system when these conditions are sensed. These functions ensure optimum groove quality and prevent damage to the equipment and work.

ORDERING INFORMATION



Complete N7500 Gouging System

Includes Remote Pendant, Control Box and Torch Head
(Part No. 65-991-015)

System Cable Assembly Options*

120V 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 Cable

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)

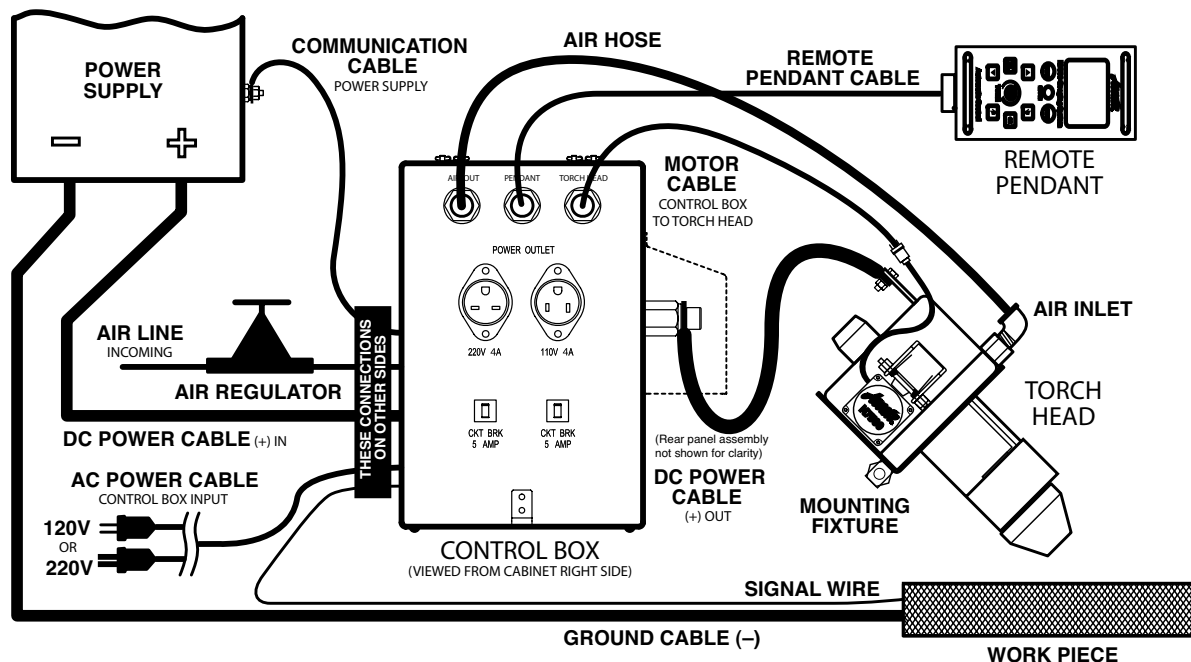
NOTE: Minimum 2 Power Cables Required

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



Gouging System



KAT® Rigid Track Carriage - GK-200-RH-N

KAT® Flexible Track Carriage - GK-200-FH-N

Heavy-duty self-aligning wheel assemblies, closed loop tack feed-back for accurate speed control when running in any plane, regardless of load. (Maximum 100 lbs.) (45 kgs). The carriage is controlled by the Gullco low voltage 24 volt GSP microprocessor pulse width modulation motor control, interfacing with the forward/stop/reverse switch and infinitely variable 4-turn speed potentiometer. The LED display is in IPM or cm/min. The motor control can be upgraded to provide auto forward/reverse, limit switches and auto wire feed start.



Heavy-Duty Rack Box - GK-171-650

6" (152.4 mm) long with adjustable nylastic bearing plugs, for 1-1/8" (29 mm) square rack arm.



Rack Box Riser Bracket - GK-190-066

Provides an adjustable mounting surface – 2" (50.8 mm), 4" (101.6 mm) or 6" (152.4 mm) above the normal KAT® Carriage Rack Box mounting surface. System complete with mounting screws and can accommodate both rack boxes. Models GK-171-650 heavy duty 1-1/8" (29 mm) and GK-190-650 extra heavy duty 1-1/2" (38 mm).



18" (457.2 mm) long heavy duty 1-1/8" (29 mm) Square Rack Arm - GK-171-047-2
With rack and both ends turned to 1-1/8" (29 mm) diameter.



GK-200-023 Adaptor Stud Assembly - Consists of the below

Heavy-Duty Rack Box - GK-171-686

4" (101.6 mm) long with adjustable nylastic bearing plugs, for 1-1/8" (29 mm) square rack arm, with 3/8" threaded stud with 1-1/8" (29 mm) swivel clamp.



10-1/4" (260.3 mm) long 1-1/8" (29 mm) Square Rack Arm - GK-171-047-10.25
With rack and one ends turned to 1-1/8" (29 mm) diameter.



Gouging Torch Adaptor Stud Attachment - GK-200-017

The adaptor stud is used to facility the mounting of the gouging head to the rack arm.



Adaptor Block - GK-171-112

The block holds the adaptor stud and attaches to the rack arm for adjustment of the gouging head

Gouging System Optional Accessories



Rigid Track Idler Carriage - GK-200-022

Flexible Track Idler Carriage - GK-200-F-022

Complete with heavy duty self-aligning wheel assemblies providing 8-3/4" x 14-7/8" (222 mm x 378 mm) flat surface for mounting equipment and can be towed behind a KAT® Travel Carriage. (complete with a towing kit).

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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



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