



# Automated Metal-Removal System

## ARCAIR-MATIC® N6000 Automated Metal-Removal System

- Gouging that is five times faster than hand held torches.
- Gouges more accurate and consistent.
- Automatic grooves that require less grinding than manually made grooves.
- Economical J-groove and U-groove edge preparations.



The Arcair-Matic® N6000 Metal-Removal System was designed to provide the best levels of control, uniformity and productivity in automated gouging of steels and other metals with the air carbon arc process. Usage of the N6000 System has expanded to a wide variety of new and unique jobs. The N6000 system measures minute variations in the arc voltage or amperage, compares them with preset standards, and takes immediate action through its feedback control maintaining the precise arc gap for optimum gouging.

Groove depth is maintained within a tolerance  $\pm 0.025"$  (0,635mm). The N6000 System is ideally suited for metal fabrication, particularly in weld joint preparation, where it is used to prepare uniform "U" or "J" grooves. The System is also used extensively for backgouging of seams and for removing defective welds and cracks.

### ARCAIR-MATIC® N6000 METAL-REMOVAL SYSTEMS

	(PART NO.)
Description	Arcair
120 VAC 60 Hz	65-991-013
220 VAC 50 Hz	65-991-014

## TITAN® MACHINE CARRIAGE

### N6000 Grooving Kits

Packages listed below include:

- Titan Machine Carriage
- Lifting bracket
- One 10' Track Assembly
- Three Magnet & Support Bars
- Cable & Hose Clamp Assembly
- Horizontal Rack Assembly
- Vertical Adjustment Assembly
- Automatic Controller
- 1600 amp Contactor
- Torch Head
- Air Regulator
- 2 each 4' (1,2M) Power Cables
- 14" (356mm) Interconnect Cable
- 10' (3M) Remote Pendant Assembly
- 3' (1M) Motor Cable Assembly
- 4' (1,2M) Air Hose Assembly
- Pertinent Fasteners
- Clamps and Hardware Package

**Catalog No. 71-022-701** comes with the Outrigger Kit instead of the Track Assembly and Magnet Support Bar Assemblies.

**The Grooving Kit** is designed for flat work only such as deck plates. It is completely self-contained and easily moved as a single unit with a forklift or crane from workpiece to workpiece.

**The Outrigger Kit** is specifically designed to travel along the web plate on fabricated bridge girders used for railroad and highway bridges.

### TITAN CARRIAGE / N6000 KITS

	(PART NO.)
Description	Arcair
Grooving Kit 120 VAC, 60 Hz	71-022-700
Outrigger Kit 120 VAC, 60 Hz	71-022-701



# Automated Metal-Removal System



## SUPPORT CABLES FOR N6000 KITS

Remote Pendant Assembly (PART NO.)	
Description	Arcair
10' (3M) Length	96-620-001
25' (8M) Length	96-620-003
50' (15M) Length	96-620-002

Interconnect Assembly (PART NO.)	
Description	Arcair
14" (356mm) Length	96-170-049
30" (762mm) Length	96-170-055
7' (2M) Length	96-170-057
15' (5M) Length	96-170-051
25' (8M) Length	96-170-052
50' (15M) Length	96-170-053

Power Cable Assembly (2 required) (PART NO.)	
Description	Arcair
4' (1.2M) Length	96-130-254
15' (5M) Length	96-130-256
25' (8M) Length	96-130-300
50' (15M) Length	96-130-301

Motor Cable Assembly (PART NO.)	
Description	Arcair
3' (1M) Length	96-130-257
12' (4M) Length	96-130-253
15' (5M) Length	96-130-303
25' (8M) Length	96-130-282
50' (15M) Length	96-130-274

Air Hose Assembly (PART NO.)	
Description	Arcair
4' (1.2M) Length	94-396-051
15' (5M) Length	94-396-049
25' (8M) Length	94-396-048

Mounting Plate and Hold Down Clamps (PART NO.)	
Description	Arcair
Mounting Plate	94-639-649
Hold Down Clamps	94-166-072

## HORIZONTAL AND VERTICAL RACK BAR POSITIONERS

(PART NO.)	
Description	Arcair
Horizontal Rack Bar Positioner	71-099-073
Vertical Rack Bar Positioner	71-099-074

# Arcair® Automated Metal-Removal System Accessories

## CLIMBER® V-A TRACTOR

- Positive-locking gear engagement lever.
- Hardened drive gear to reduce maintenance.
- Solid state circuitry.
- Manual or Automatic Control. (Automatic control synchronizes the process and tractor motion.)
- Powered by a permanent magnet DC parallel shaft gear-motor, lubricated for life.

### Climber® V-A Tractor

**Packages includes:** Climber V-A Tractor, Track Assembly (10ft./3M Long), Magnet Assemblies (5), Horizontal Rack Assembly, Vertical Adjustment Assembly, Cable Hose Clamp Assembly, and Mounting Plate Assembly.

A complete assembly for mounting on ferrous materials. This package gives portability and flexibility for out-of-position work.



## CLIMBER® V-A TRACTOR PACKAGE

Description	(PART NO.)	
	Tractor Only	Tractor Package
120 VAC, 60 Hz 0-100 ipm (0-254 cm/min)	71-023-136	71-023-138
220 VAC, 50 Hz 0-100 ipm (0-254 cm/min)	71-023-137	71-023-139
Aluminum Track Section (3'/1M Length)	71-099-003	71-099-003
Aluminum Track Section (6'/2M Length)	71-099-002	71-099-002
Aluminum Track Section (10'/3M Length)	71-099-001	71-099-001
Magnet and Support Bar Assembly	71-099-004	71-099-004

**NOTE:** When using the travel system in the vertical, horizontal, and overhead positions, use of safety attachments is recommended to prevent operator injury or equipment damage.

**NOTE:** The Climber® V-A Package will carry the N6000 Torch Head and Automatic Controller. When mounting the Automatic Controller on the Climber V-A, choose the 3 ft. Motor Cable Assembly (Catalog No. 96-130-257).

## TITAN® MACHINE CARRIAGE

The Arcair® Titan® Machine Carriage is designed for low maintenance and high performance in straight line operation, such as automated air carbon arc gouging, cutting or welding operations. Its three wheel design ensures maximum stability even on warped plates. The machine carriage is available in a speed range from 6-80 IPM (15,2-203,2 cm/min.). A manually operated clutch allows the drive to be disengaged for free wheeling to the start of the next operation.



## TITAN® MACHINE CARRIAGE

Description	(PART NO.)
	Arcair
120 VAC, 60 Hz 6-80 ipm (15,2-203,2 cm/min)	71-022-501
Track Assembly (10'/3M Length)	71-022-502
Magnet and Support Bar Assembly (3 Required/Track Assembly)	71-022-504