

**ELECTRO  
ARC**

# METAL DISINTEGRATORS

**MODEL 3-S**



The Electro Arc Model 3-S brings the easy-to-use **ARC-ER** disintegrating head to bear on your hardened-tool extraction tasks. The color-coded LED-light Amp Meter right in the head makes control of the process easy. You can tell how you're doing without having to constantly focus on a meter needle.

Support it with a drill press or use one of our supports shown above and on reverse side.

The portable and very adaptable Mini-Mag magnetic-base support is especially well suited for this unit.

Like all Electro Arc Metal Disintegrators, Model 3-S disintegrates the centers out of broken-off drills and taps without causing heat distortion to the surrounding workpiece.

- **3 KVA** Disintegrating Transformer
- **5 Heat selections** for precise cutting control
- **Cabinet includes** casters for easy movement around the shop and convenient tool/cable storage bin at back



**1 YEAR  
WARRANTY  
ON MACHINE  
INCLUDING HEAD**

## Typical Cutting Speed of Assorted Sizes

BROKEN TAPS 1"/25 mm DEEP	REMOVAL TIME
6 mm (0-80 to 10-32)	Less than 1 min
8 mm (1/4")	1 min
9.5 mm (5/16")	1-1/2 min
10 mm (3/8")	1-3/4 min

**ANY SIZE TAP  
CAN BE REMOVED**

**QUICKLY REMOVES BROKEN TAPS AND DRILLS**

**MADE BY ELECTRO ARC MANUFACTURING CO.**

*World's Largest, Most Experienced Disintegrator Manufacturer*



*Color-coded LED-based Amp meter system lets you control disintegration process almost instinctively!*

## A compact workhorse with great flexibility

### Compact, durable **ARC-ER** Head

This new portable disintegrator head provides reliable, accurate heavy-duty service with minimal maintenance. The state-of-the-art LED Current Indicator right in the body simplifies process control.

Head is 318 mm (12½") long overall; 3.2 kg (5.5 lb.). A 12 mm (½") diameter, 50 mm (2") long straight shank allows use remotely in fixtures or with other machine tools.

Reliable performance. 1-year warranty.

### Basic equipment

3-S comes with a 3 KVA disintegration transformer – sufficient power to let you use electrodes up to 4.74 mm (.187") diameter.

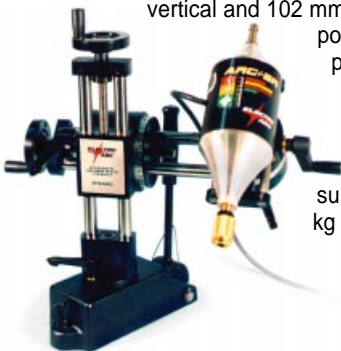
The standard Power Coolant Cable is 2.13 m (7.5 ft) (standard) or 3 m (10 ft.) at extra cost.

## ACCESSORY EQUIPMENT

Complete your disintegrating system with supports designed for your Arc-er head.

### Universal Support for **ARC-ER** Head

The "Mini Mag" support, with 6 precision angle/position adjustments and 127 mm (5") of vertical and 102 mm (4") horizontal positioning, is the perfect compact Arc-er support. Permanent magnet grips ferrous surfaces with 360 kg (800 lb) of pull.



### 920mm (36") Column Support with Magnetic base for **ARC-ER** Head

The 914 mm (36") 1360-kg (3,000-lb)-pull magnet-base support holds the Arc-er head securely. The quill housing rotates 360° on the 410 mm (16") crossarm and provides 229 mm (9") of spring feed.



## Model 3-S STANDARD FEATURES

<b>OPERATING HEAD</b>	Arc-er head works by making and breaking fifty/sixty arcs per second. It will use any conductive material as an electrode. Built-in LED amp meter allows the operator to monitor current drawn for optimum feed control. Operates in any position.
<b>BASE/ CABINET</b>	1.6 mm (16-gauge) steel power cabinet with two handles for easy removal from base cabinet and a convenient expanded-metal compartment at rear for head and cable storage. 320 mm (10½") high, 381 mm (15") wide x 381 mm (15") deep. Base cabinet with 37.8-L (10-gallon) coolant tank rolls on four heavy-duty ball bearing casters. 457 mm (18") H x 381 mm (15") x 381 mm (15") W. Standard finish is Tan/Brown; custom colors at additional cost.
<b>POWER TRANSFORMER</b>	120 or 240 volt. Disintegrator transformer rating: 3 KVA. 5 cutting heat settings. Full circuit breaker protection; general purpose Machine Tool electrical standards.
<b>COOLANT SYSTEM</b>	Coolant tank on casters for easy portability. Cartridge type, filtered-intake. Pump: 340 liters/hour (2 GPM); 14,06 kg/cm² (90 PSI); ⅓ H. P. motor, single phase, 120 volt. Power coolant cable (conducts both liquid coolant and low-voltage current): double stranded, woven copper braid with polyvinyl cover. 2.13 m (7.5') standard; 3m (10') length available.
<b>ELECTRODES</b>	Manufactured by ELECTRO ARC for removing broken tools. A large inventory of standard sizes is maintained. (Special shapes and sizes are available.)
<b>PARTS</b>	Available for immediate delivery.
<b>SERVICE</b>	Provided by factory trained personnel.
<b>SHIPPING DATA</b>	Approximate weights: Net: 74.8 (165 lb) Gross domestic: 83.9 (185 lb) Gross export: 90.7 (200 lb); Cu. m: 0.227 (Cu. ft: 8)

7/08

## GUARANTEE

*Each Electro Arc Metal Disintegrator is fully guaranteed for one year against any manufacturing defects.*

## ELECTRO ARC MANUFACTURING COMPANY

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