

**ELECTRO
ARC**

METAL DISINTEGRATORS

1SV SERIES (formerly 1-S)

NEW:
VERTICAL
double
crossarms
for 30%
more rigid
support



FEATURES

- **NEW:** LED-light Current Meter for precise current control on all models
- **NEW:** Anti-fall system balances weight to prevent head crashes and eliminate lock/unlock problems
- **NEW:** 38 mm (1 1/2") dia. vertical double-barrel hardened crossarms
- **NEW:** Thermal Protection
- Heavy-duty performance
- Precision ground/chromed quill assemblies
- Rack and pinion movement
- Automatic depth stop
- Available Auto Feed with 2-speed variable feed motor
- 70 mm (2 3/4") diameter chromed column
- Five power supply options
- Adjustable 304 mm (12") lift rack
- Lighted push-buttons with emergency stop button
- Slide-in power chassis with external fuses
- Ground work table with 7 "T" slots
- Heavy-duty ball bearing casters and levelers
- Large capacity coolant system
- Automatic or spring feed

ANY SIZE TAP
CAN BE REMOVED

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
12.5 mm (1/2")	2 min
16 mm (5/8")	3-1/2 min
19 mm (3/4")	4 min

QUICKLY REMOVES BROKEN TAPS AND DRILLS

ELECTRO ARC MANUFACTURING CO.
WORLD'S LARGEST AND MOST EXPERIENCED DISINTEGRATOR MANUFACTURER

Choosing the features you need

"In-the-Quill" (Q) Head: 1-SVQT, 1-SVQ

Unique, patented, in-the-quill disintegrator head provides continuous, reliable, heavy-duty service for the most demanding applications. Built-in LED Current Indicator. The construction and design minimizes maintenance and carries a 3-year warranty. The head is 82 mm (3-1/4") diameter, hard chromed, precision ground with .05 run-out and 229 mm (9") of vertical rack and pinion travel. **NEW:** Thermal protection cutout with Operator Alert can prevent expensive damage. **NEW:** quieting components for 2.5 dB less noise.

Automatic Feed: 1-SVQT & 1-SVT

Automatic transistorized power feed provides continuous feed up to 229 mm (9"). Features adjustable automatic shut off switch, auto stop, 2-range variable speed, feed rate selector and plug-in integrated circuit board. Anti-fall system to prevent head crashes.

Portable **ARC-ER** Head: 1-SVT, 1-SV

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 (12 1/2") long overall; 3.2 kg (5.5 lb). A 12 mm (1/2") diameter, 50 mm (2") long straight shank allows use remotely in fixtures or with other machine tools.

Reliable performance. 1-year warranty.

Spring Feed: 1-SVQ, 1-SV

Spring loaded feed unit is manually adjusted and assists the operator in feeding the disintegrator head in a continuous movement. Features adjustable depth stop.

Options for all 1-SV Series models:

- Power rating of transformer: 3, 10, 15, or 20 KVA
- Column height: 1270 mm (50") (standard) or 1524 mm (60")
- Power/Coolant Cable length: 2.13 m (7.5') or optional 3 m (10'). Each of these choices affect the final cost of your machine.

SELECTION CHART

Features by	Q Head	Auto Feed	ARC-ER Head	Spring Feed
MODEL				
1-SV			●	●
1-SVT		●	●	
1-SVQ	●			●
1-SVQT	●	●		

Model 1-SV STANDARD FEATURES

OPERATING HEAD Both the "Q" (in-the-quill) and Arc-ER heads work by making and breaking fifty/sixty arcs per second. They will use any conductive material as an electrode. An LED current indicator allows the operator to monitor current drawn for optimum "intuitive" feed control. A graduated feed scale in 1 mm (1/16") linear increments allows presetting depth of cut. Both head types operate in any position.

HEAD SUPPORT **Radial Crossarm:** **Vertical-plane** double-barrel design gives rigidity without excess mass. 2 hardened, ground arms 38 mm (1 1/2") diameter; 813 mm (32") long. Linear ball bearings. Arm carriage rotates 360 degrees around column, manually locks in position.

Column: Hard chrome plated, 70 mm (2 3/4") diameter and 1270 mm (50") high (a 1524 mm (60") column is an available option. 304 mm (12") lift rack for raising and lowering the crossarm. The work height from the disintegrator head to the table is adjustable to a maximum of 914 mm (36") or 1838 mm (72") to the floor).

BASE Heavy, reinforced frame construction. Ground, cast iron work table measuring 880 mm (40") wide, 590 mm (32") deep, 813 (32") high. 1360 kg (3000 lb) capacity. Seven 19mm (5/8") "T" slots. Recessed control panel; lighted push buttons; indicator light for low water level; external fuses; master stop; four heavy-duty ball bearing casters. Standard finish is Tan/Brown; custom colors at additional cost.

POWER TRANSFORMER 110, 240, 380, 480, or 550 volt. Disintegrator transformer ratings are available in 3, 10, 15, or 20 KVA. (Higher KVA ratings mean you can effectively disintegrate over a larger surface area at a given rate.) Cutting heat settings: 3 KVA: 5 settings. 10 KVA: 8 settings. 15KVA: 10 settings. 20KVA: 8 settings. Circuit breaker protection; D.C. current, low voltage, Machine tool electrical standards. Mass production J.I.C. electrical standards at extra cost.

COOLANT SYSTEM Pull out tank for easy cleaning. Cartridge type, filtered-intake. Pump: 340 liters/hour (2 GPM); 14,06 kg/cm² (90 PSI); 1/3 H. P. motor, single phase, 120 volt. Power coolant cable: double stranded, woven copper braid with polyvinyl cover. 2.13 m (7.5') standard; 3m (10') length available.

ELECTRODES Manufactured by ELECTRO ARC for removing broken tools. A large inventory of standard sizes is maintained. (Special shapes and sizes are available.)

PARTS Available for immediate delivery.

SERVICE Provided by factory trained personnel.

GUARANTEE Fully guaranteed for one year against any defects.

SHIPPING DATA Approximate weights - Net: 480 kg (1050 lb), Gross domestic: 537 kg (1175 lb) Gross export: 570 kg (1250 lb), Cubic Meters: 21.5 (Cubic feet: 70)

OPTIONAL EQUIPMENT
adds versatility
to your machine



1400 kg (3,000 lb)-pull permanent magnet adapts the super-structure to work on other ferrous surfaces.



360 kg (800 lb)-pull permanent magnet with 7 precision angle/position adjustments

7/08

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