Flash Cutter
960 Series

Custom designed machines for cutting to length and fusing the ends of stranded cable in most metals, flexible drive shaft or stainless steel overbraided Teflon hose.

Description

The Automatic Flash Cutter® 960 is designed to take cable from a reel, meter and feed it to a cutting head and eject the cut pieces into a trough. Cutting is usually effected by electrically melting a short section of the cable or metal overbraid, fusing the strands on both ends.

Features

- Cut length of cable / hose is limited only by the ability of the receiving equipment to accept the cable
- Cut length is easily set in inches or millimeters through front panel controls
- Compact footprint (approx. 6 ft x 2 ft)
- PLC (programmable logic controller) controlled machine operation
- A predetermined batch counter will shut off the machine after a set number have been cut. A totalizing counter shows the cumulative number produced.
- The production rate depends on the cutting length, the diameter of the cable / hose and the accuracy required. The cable can be fed up 4 ft per second (1.2 m per second) and the machine can be cycled at up to 1200 cuts per hour. Typical production is 600 cuts per hour for up to 36” length.
- Heating current is adjustable by tap switch and solid-state heat control.
- Mechanical Shear can be installed in place of the electro-cut head.

Typical Uses

- Flexible Shaft Drives
- Automobile and Aircraft Controls
- Machine Rigging
- Office Machine Cables
- Medical Instruments
- Winch Cables

EMAIL: welders@tjsnow.com | tjsnow.com
120 Nowlin Lane | Chattanooga, TN 37421

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423.894.6234

EWALD

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Specs

Model	kVA	Drive	Material	Capacity
960-XX	2.5 - 35	AC Motor	Cable	To 7/16" (11mm)
960-9X	2.5 - 10	Stepper Motor	Hose	To 1.25" (32mm)

How It Works

The cable / hose is pulled by drive belts driven by a variable speed AC motor or a DC stepper motor. Electrodes are applied adjacent to the cutting point and a heavy current of low voltage melts a short section of the cable fusing the ends. A mechanical cutting head can sever plastic coated cable or conduit. The machine will cycle until a pre-set counter turns it off.

In the case of braided hose, after the electrodes are closed on the braid, it is first warmed by a low heat to warm the tube liner and anneal the braid. The braid is then severed using a high current while keeping the tubing under tension. After the braid has been cut, a motorized knife or mechanical knife cuts the liner.

Accessories

- Water-cooled electrode holders and distribution manifold for heavy-duty use (large diameter cable and short cutting lengths)
- Water circulator, cooler and tank for use with water-cooled electrodes
- Monitor: A sensor stops the machine if a cut piece is not dropped after each cycle. A horn or flashing light alerts an operator.
- Straightener: For stiff wire, which will not straighten by being pulled. 5 rollers in each of one or two axes.
- Tensioner: Pulleys with friction brakes apply an adjustable tension to the cable for more accurate cutting length. A tensioner is required if no external tensioning device or straightener is used
- Powered saw (knife) table
- Tube preheater to warm the tubing and aid in straightening of the tube prior to cutting
- Splice detector (tube cutter application)
- Power de-reeler for feeding cable or tubing
- Receiver to catch and deposit the cut pieces into a holding trough.

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