

PRIME CUT : PORTABLE ULTRATHERMIC CUTTING SYSTEM

PRIME CUT



BROCO®

PRIME CUT

Ultrathermic Cutting System

DESCRIPTION :

Prime Cut is an ultrathermic cutting system operating at temperatures exceeding 10,000°F (5538°C). Because of this very high temperature, the surface preheating, often long and exhausting, is not required. Additionally, surface grinding and gouge cleaning are not required because Prime Cut does not leave any carbon deposits.

Because of the unique burning action of **Prime Cut's** properties ultrathermic rods literally liquefy any material in their path, using material itself as fuel. They will quickly cut, pierce or gouge almost any known material including **cast iron, stainless steel, alloy or mild steel, nickel, titanium, concrete, granite and aluminum**. Downtime of expensive heavy equipment is greatly reduced. Ultrathermic rods burn in any environment, even under water or in mud. This unique performance feature gives operators a substantial advantage under adverse working conditions.

Prime Cut ultrathermic cutting system is safer than other types of cutting equipment because they do not require high amperage or potentially dangerous fuel gas. Operator comfort and safety are also improved, because Prime Cut produces less noise, smoke and noxious gases than other systems. The 6, 12 or 24 volt DC ignition system, single oxygen source with one regulator and completely self-contained portable kit assures that the **Prime Cut** system is easy to operate...even for the first time user.

The **Prime Cut** kit is compact enough to be stored in a tool rack or to bring in a truck or a car at the workplace.

The kit includes :

- 1 torch
- 20' (6 m) of oxygen hose
- 1 copper striker plate and 20' (6 m) of power cable
- 2 battery clamps
- 1 leather shield pad
- 1 heavy duty carrying case
- 1 pair of welding gloves
- 1 pair of cutting goggles / mask
- 4 adaptable collet nuts according to the diameter of the rod (3/16", 1/4", 3/8" and 1/2")
- 2 packages of ultrathermic rods: 9 rods of 1/4" x 18" and 6 rods of 3/8" x 18"
- 1 operating instructions manual

N.B. : A 36" (91.5 cm) extender accessory enables the operator to reach otherwise inaccessible locations is also available.



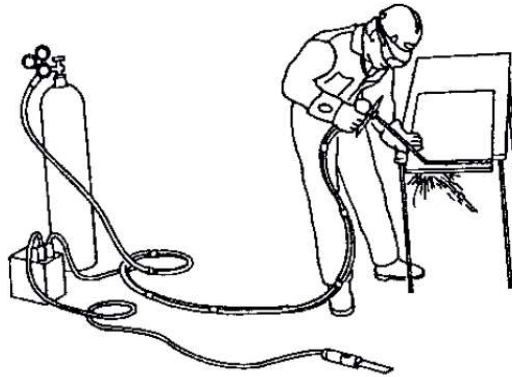
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SETUP:

The figure belows shows the setup of the **Prime Cut** ultrathermic cutting system. In addition to the Prime Cut kit, the only equipment necessary for using the **Prime Cut** are :

- 1 oxygen regulator
- 1 bottle of oxygen
- 1 battery of 6, 12 or 24 volts



The **Prime Cut** system can also be connected to a welding machine. The welding machine is used only for ignition of the system. The torch is connected at the positive terminal of the machine and the copper striker plate is connected at the negative terminal. The welding machine is set at low amperage (50 amps.) by using an AC or DC current (DC preferred).

Number 5 burning lens is necessary for the protection of the eyes when this process is used.

CHARACTERISTICS :

- **Powerful performance**
- **Easy to operate, safe and multi-purpose system**
- Easy ignition with a 6, 12 or 24 volt battery
- No preheating or grinding required
- Rods can be bent for out-of-position cutting
- Flash arrestor in the torch for maximum protection
- No acetylene or other gases required (only oxygen)
- Adjustable oxygen pressure for small or large works
- 4 diameters (3/16", 1/4", 3/8" and 1/2") and 4 lengths (18", 36", 48" and 60") of rods available :



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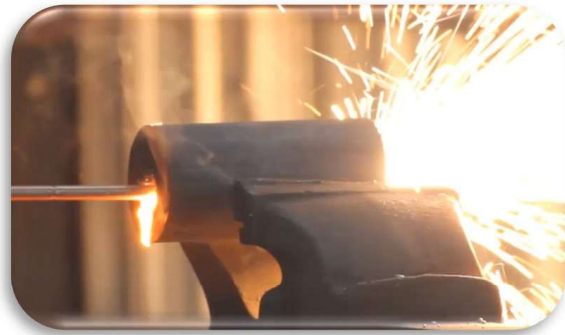
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THE PROFESSIONAL'S CHOICE FOR GOUGING, PIERCING AND CUTTING

INDUSTRIAL APPLICATIONS :

When saving time is the primary consideration, Prime Cut is the professional's first choice for applications involving specialty gouging, piercing or cutting :

- Pin piercing and removal
- Gouge old welds or cracks
- Petrochemical
- Asphalt plants
- Building maintenance
- City departments
- Demolition
- Heavy equipment
- Railways
- Road systems
- Quarries
- Welding shops
- Plant maintenance
- Construction
- Navy construction
- Emergency service
- Foundries
- Scrap yards
- Mining
- Cement
- Agriculture



PIERCING TECHNIQUE

For pins piercing, cut a vent at the base of the hole, the hot magma can escape without generating excessive spatter..



For technical assistance or for ordering:

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