

BROCO

**INDUSTRIAL CUTTING AND
WELDING SOLUTIONS**

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WELDING SOLUTIONS**

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*Broco **Industrial Maintenance**
and **Repair Tools** Give You **Portable,**
Powerful Performance*

CAUTION: This equipment is potentially dangerous to operate and must be used in strict accordance with the instructions provided. Work should be performed by trained professionals and in accordance with industry specific safety standards.



You will find Broco Industrial cutting and welding products working in rugged maintenance and repair environments around the world including:

Aggregate
Agriculture
Cement
Coal
Construction
Demolition
Fire and Rescue
Food Processing
Heavy Equipment
Marine and Dredge
Metal Processing and Casting
Mining
Nuclear
Petrochemical
Plant Maintenance
Rail
Steel
Utilities
Welding Shops



Broco Industrial cutting and welding products go where you need them to go to get the job done. Our industrial maintenance and repair equipment is portable and powerful. With Broco Industrial tools you can repair heavy equipment at the construction site, clear rock crushers in the quarry, and demolish structural steel on-site.

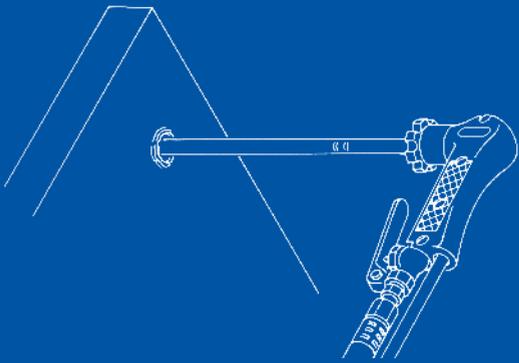
The Portable Problem Solvers

Broco tools were pioneered by working professionals and innovative engineers with a strong commitment to quality and performance. That tradition of knowledge and superior engineering continues today. Ask our experts how we can help solve your maintenance and repair challenges quickly, safely, and cost effectively.

BROCO

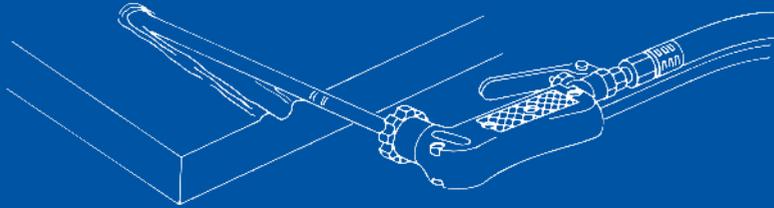
**INDUSTRIAL CUTTING AND
WELDING SOLUTIONS**

Broco Industrial Ultrathermic Torch Provides Powerful Performance



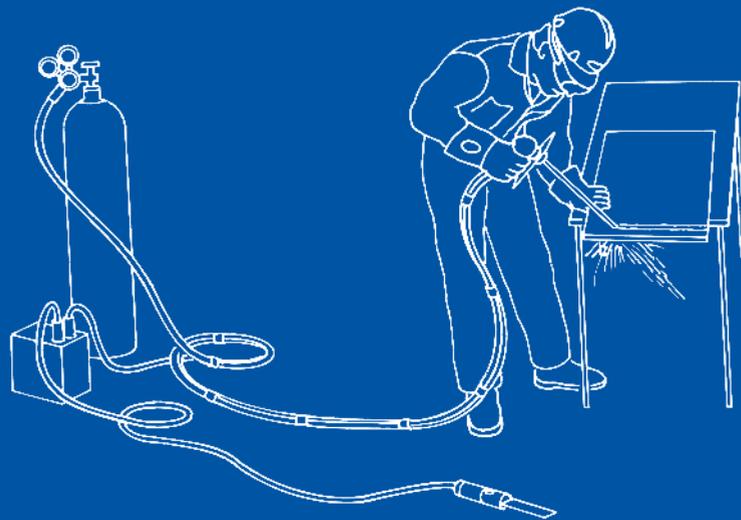
Pin Piercing

Remove frozen pins, broken bolts and cast wheel wedges. Make starter holes in thick plates.



Gouging

Gouge cleanly without the smoke, noise, or a welding machine and air compressor. Gouge without pre- or post-grinding or carbon deposits. Realize better depth control and speed.



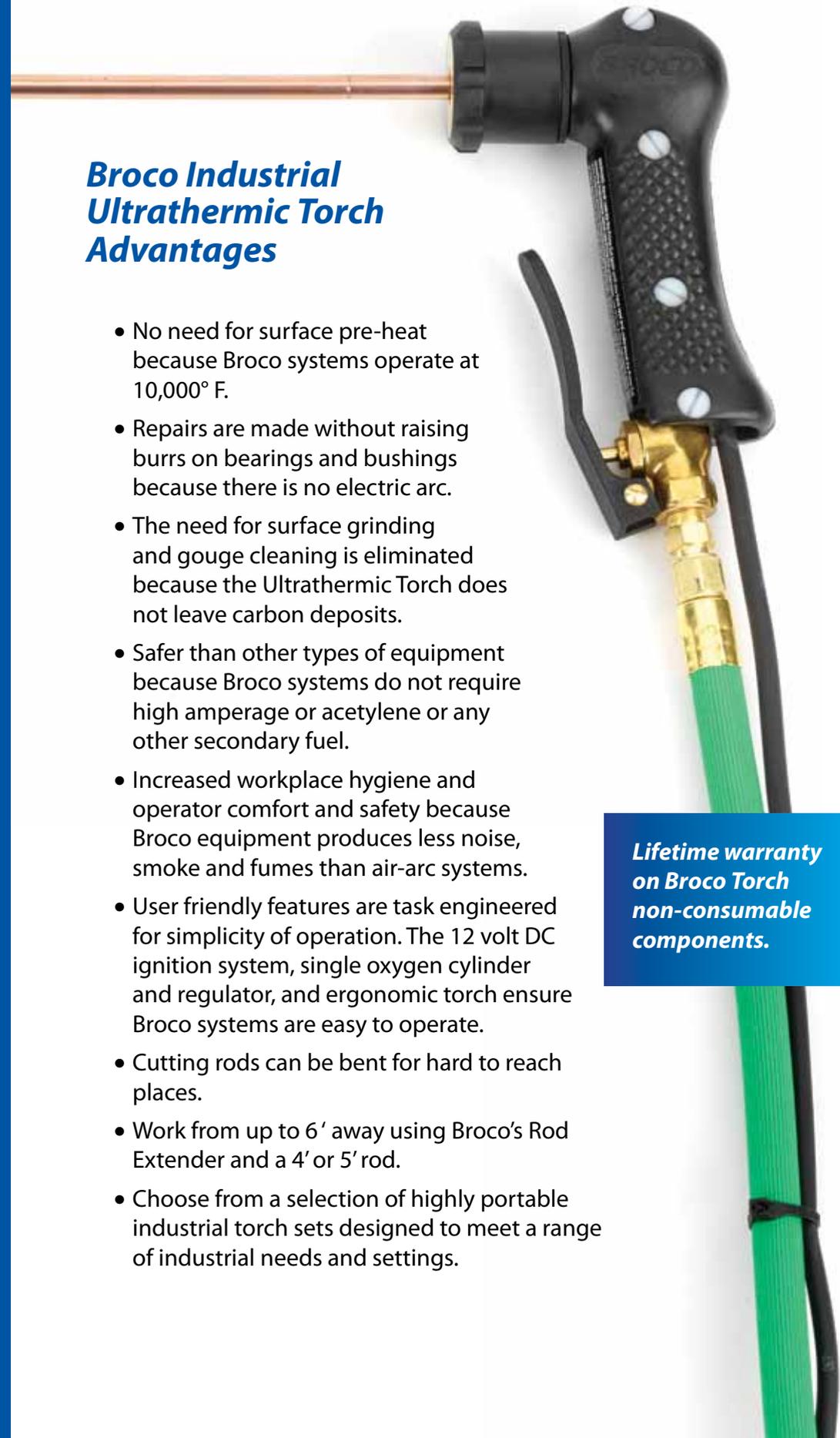
Heavy Cutting

The fastest cutting of cast, stainless, and non-ferrous metals. Cut a 10" diameter mild steel shaft with a single 1/2" x 48" Broco rod.

Broco Industrial Ultrathermic Torch Advantages

- No need for surface pre-heat because Broco systems operate at 10,000° F.
- Repairs are made without raising burrs on bearings and bushings because there is no electric arc.
- The need for surface grinding and gouge cleaning is eliminated because the Ultrathermic Torch does not leave carbon deposits.
- Safer than other types of equipment because Broco systems do not require high amperage or acetylene or any other secondary fuel.
- Increased workplace hygiene and operator comfort and safety because Broco equipment produces less noise, smoke and fumes than air-arc systems.
- User friendly features are task engineered for simplicity of operation. The 12 volt DC ignition system, single oxygen cylinder and regulator, and ergonomic torch ensure Broco systems are easy to operate.
- Cutting rods can be bent for hard to reach places.
- Work from up to 6' away using Broco's Rod Extender and a 4' or 5' rod.
- Choose from a selection of highly portable industrial torch sets designed to meet a range of industrial needs and settings.

Lifetime warranty on Broco Torch non-consumable components.



A large selection of cutting rod diameters from 3/16" to 1/2" and lengths from 18" to 60"



Broco Ultrathermic® Cutting Rods

The 10,000° F burning action of Broco® exothermic cutting rods liquefies nearly any material in its path using the material itself as fuel. Utilizing oxygen, Broco Industrial rods quickly cut or melt almost any known material including cast iron, stainless steel, brass, nickel, titanium, aluminum and other ferrous and non-ferrous metals as well as concrete.

High Performance in Adverse Environments

Ultrathermic rods burn in any environment, even underwater or in mud. This unique performance feature gives operators a substantial advantage under adverse working conditions.

Cut Downtime, Save Operator Time

Cutting, piercing and gouging can be completed in just a fraction of the time using Broco Industrial cutting rods and torch kits. Downtime of expensive heavy equipment is greatly reduced during operations such as track and bucket pin removal, gouging and the removal of hardfacing and old welds.

***Gouge quickly,
quietly, cleanly
with no pre- or
post-grinding or
carbon deposits.***



***The professional's
first choice for
cutting, gouging
or piercing any
material.***



**The portable
problem solver.**

One Torch Makes Maintenance Professionals' Jobs Easier, Faster, Safer and More Cost Effective

Construction and Demolition

- Lead or iron rivet removal
- Cutting I-beams, wall and girder removal
- Melt into concrete and cut structural steel
- Cut steel doors and remove concrete filled posts
- Use from an aerial lift

Fire and Rescue

- Forced entry
- Cut through metal bars, locks and gates
- Remove structural steel/building collapse
- Rail derailment and rescue
- Large machinery accidents

Heavy Equipment Repair and Maintenance

- Remove track and king pins and broken bolts
- Gouge to remove hardfacing and old welds
- Quickly cut bucket tooth shanks and edges
- Remove bushings without damage to shafts or housings

Marine and Dredge Operations

- On board deck cutting
- Bulkhead penetrations
- Rods burn even when submerged in mud or water
- Pierce and gouge under adverse conditions
- Emergency cutting of wire rope, anchor chain and spud wire
- Cut away hardfacing inside of pumps

Metal Producing and Casting Plants

- Spill clean-up
- Tap cleaning
- Riser cutting
- Mold repair



**The Broco
Industrial Cutting
Torch Does It All:**
*Easy to use, highly
portable, up to 6'
reach, cut overhead,
bend rods for hard
to reach places, low
noise and fumes.*

Plant Maintenance

- Machinery repair
- Penetration of concrete for pipe installation
- Installation of machinery anchor bolts
- Specialty metal cutting and frozen bolt removal

Rail

- Derailment recovery
- Track and car maintenance and repair

Rock Quarries

- Repair primary and secondary crushers
- Clear rock jams by melting and fracturing boulders of almost any size to avoid machine dismantling

Utility Companies

- For underground and topside piping projects
- Cut both pipe and grout liners
- Cut cast iron valves in sewage treatment plants

Welding Shops

- Specialty cutting, piercing, gouging, and washing of ferrous and non-ferrous metals like stainless, aluminum, cast iron, manganese, brass and titanium
- Pierce and gouge for speedy crack repair



GOWELD®

Go Anywhere. Weld Anywhere!®

GOWELD® 24 volt battery-powered portable welder brings shop-based power and precision to the field. GOWELD gives maintenance and repair professionals the advantage of making permanent high quality welds anywhere without the need for a welding generator or inverter power source. Repairs are made at the jobsite lowering overhead costs and eliminating transportation headaches.

GOWELD® delivers more amps, handles more volts, and accommodates more wire sizes without AC power. For professional welders and DIY enthusiasts, from customizing hot rods and off road vehicles, fence and gate repair and installation, to farm and ranch duties and more, GOWELD's easy setup and permanent weld capabilities give you the power to weld anytime, anywhere.

Weld steel or aluminum from 1/16" to 1/2" thick with just two twelve volt batteries.



GOWELD® Advantages

- Fast setup, easy to operate
- Operates on just two or three 12 volt batteries
- Microprocessor monitors feed and welder functions
- Optical encoder for computerized tru-speed from zero to 1,100 inches per minute produces more consistent welds
- Automatic shutdown protection in the event of wire jam, motor overheat or low battery
- Die cast aluminum chassis supports the motor, drive assembly, trigger, micro switch, gas valve, circuit board and wire spool
- Heavy-duty high-torque motor
- LED's indicate power status, polarity, low battery, and motor temperature
- Robust chassis mounted micro switch and gas valve operate directly from the trigger providing pre-flow and post-flow capabilities
- Also operates as a spool gun for a CV output welding machine when used with the optional 24 volt power supply (GOWELD® PCU)

GOWELD® comes with 20' power cable and gas line, ground cable with clamp, wiring harness, battery jumper cable, contact tips in .035, 2 spools of welding wire and carrying case.

GOWELD® uses standard 2 pound (1 kg) spools of solid MIG or flux core self shielding (FCAW) welding or hardfacing wire from .023" to .045 diameters to weld or hardface. It offers up to 20 minutes arc time on two batteries.

Choose the Broco Industrial complete solution for your job.



PC/A-5V2HR



PC/TA-60



PC/A-20

Visit the Broco website at www.Brocoinc.com for a complete listing of products available, or ask us to build a custom kit to meet your needs.

Industrial Welding Products List



Industrial Torch Sets

MODEL NO. TORCH LENGTH	PC/A-20 20' Long Hose	PC/BX-12 12' Long Hose	PC/TA-60 30' Long Hose	PC/A-2 15' Long Hose	PC/A-5V2HR 5' Long Hose
Broco Torch & Striker Plate	●	●	●	●	●
Hose & Cable Extension			30'		25'
Collets to Fit 3/16", 1/4", 3/8", & 1/2" Cutting Rods	●	●	●	●	●
12 Volt Light-weight Battery w/ Charger				●	●
Backpack w/ Accessories					●
Oxygen Cylinder				20 FT ³	45 FT ³
Oxygen Regulator				●	●
Case Tool Box	●			●	●
Sample Packs 1/4" & 3/8" Cutting Rods	●			●	●
Cutting Rod Extender					●
Leather Shield	●	●	●	●	●
Battery Clamps	●	●	●	●	●
Safety Goggles & Gloves	●			●	●

Industrial Torch Replacement Parts

PROD. NUMBER	DESCRIPTION	UNIT
PCRP-301	Handle Assembly	Handle grips (left & right sides), nylon screws and nuts (4)
PCRP-302A	Torch Head and Cable Assembly, 15'	Brass torch head, black plug (PC/RP-312) and electrical cable (For PC/A-2)
PCRP-302B	Torch Head and Cable Assembly, 5'	Brass torch head, black plug (PC/RP-312) and electrical cable (For PC/A-5)
PCRP-302C	Torch Head and Cable Assembly, 20'	Brass torch head, black battery clamp and electrical cable (For PC/A-20; PC/TK-20)
PCRP-303	Collet Nut	
PCRP-304	Compression Washer	Compression washer (1)
PCRP-305A	3/8" Collet Kit	3/8" Collet and washer
PCRP-305B	1/4" Collet Kit	1/4" Collet and washer
PCRP-305C	1/2" Collet Kit	1/2" Collet and washer
PCRP-305D	3/16" Collet Kit	3/16" Collet and washer
PCRP-306	Collet Washer	Collet washers (Black, for 1/4", 3/8" & 1/2" rods) (3)
PCRP-306C	Collet Washer	3/16" Collet washers (Red) (3)
PCRP-307	Flash Arrestor Assembly	Flash arrestor and screen
PCRP-308	Flash Arrestor Screen	Flash Arrestor Screen (1)
PCRP-309	Coupler Assembly	
PCRP-310	Control Valve Assembly	(Includes lever)
PC/VRK	Control Valve Repair Kit	(Includes nut, valve stem, spring, O-rings, Neoprene seal)
PCRP-311	Control Valve Lever	Lever, screw and nut
E1010-61	Red Plug (for striker)	
E1010-62	Black Plug (for torch)	
159R	Battery Clamp, red	
159B	Battery Clamp, black	
PCRP-314A	Striker Plate Assembly	15' Cable with red plug (For PC/A-2)
PCRP-314B	Striker Plate Assembly	5' Cable with red plug (For PC/A-5)
PC/SP-20	Striker Plate Assembly	20' Cable with red battery clamp (For PC/A-20; PC/TK-20)
152	Striker Plate Handle	Plastic, black
153	Copper Plate	Striker replacement
154	Insulator Dowel	Striker replacement
158	Screw, Striker Handle	Nylon (2 required)
PCRP-315	Leather Shield	
1418PC-SPS	Cutting Rods StixPak®	1/4" x 18", 9 rods
3818PC-SPS	Cutting Rods, StixPak®	3/8" x 18", 6 rods

Ultrathermic Cutting Rods & Accessories

PROD. NUMBER	DESCRIPTION	UNIT
3818/PC-10	3/8" x 18" Rods	10 lb. box (27 rods/box)
3818/PC-25	3/8" x 18" Rods	25 lb. box (68 rods/box)
3836/PC-10	3/8" x 36" Rods	10 lb. box (13 rods/box)
3836/PC-25	3/8" x 36" Rods	25 lb. box (33 rods/box)
3860/PC-25	3/8" x 60" Rods	25 piece bundle
1418/PC-10	1/4" x 18" Rods	10 lb. box (56 rods/box)
1418/PC-25	1/4" x 18" Rods	25 lb. box (137 rods/box)
1436/PC-50	1/4" x 36" Rods	50 piece box
1248/PC-40	1/2" x 48" Rods	40 lb. box (24 rods/box)
31618/PC-20	3/16" x 18" Rods	Package of 20
PC/XT	Rod Extender	Increase reach by 36"
BOC-NO45	O2 Cylinder, Aluminum	45 cubic feet @2216 psig

GOWELD® Parts and Accessories

PROD. NUMBER	DESCRIPTION
600155	GOWELD Portable Battery Welder Kit
600156	GOWELD Power Conditioning Unit (PCU)
500070	Mild Steel Gas Shielded Welding Wire, .035" diameter, 2lb. spool ER70S6/AWS SFA5.18
500124	Mild Steel Gasless Flux Core Welding Wire, .035" diameter, 2 lb. spool E71T-GS/AWS SFA5.20
500199	Aluminum Gas Shielded Welding Wire, .035" diameter, 1 lb. spool, ER4043/AWS SFA5.10
500112	Gas Diffuser (1)
500113	Nozzle Insulator
500114	Nozzle
500115	Contact tip, .023", 0.6 mm, packet of 4
500116	Contact tip, .030", 0.8 mm, packet of 4
500117	Contact tip, .035", 0.9 mm, packet of 4
500118	Contact tip, .045", 1.1 mm, packet of 4