

BROCO

**INDUSTRIAL CUTTING AND
WELDING SOLUTIONS**

BROCO

**INDUSTRIAL CUTTING AND
WELDING SOLUTIONS**

INDUSTRIAL MAINTENANCE AND REPAIR TOOLS

Portable, Powerful Performance

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CAUTION: Forced entry equipment is potentially dangerous to operate and must be used only by trained professionals in strict accordance with industry accepted method of entry/breaching practices.

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Broco® Industrial cutting and welding products work 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



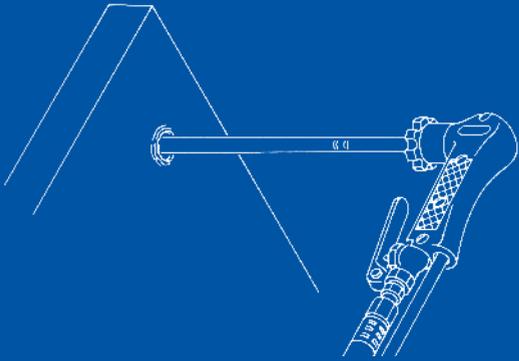
Broco® Industrial cutting and welding products go where you need them to go to get the job done. Our industrial maintenance and repair equipment is portable and powerful. With Broco Industrial tools you can repair heavy equipment at the construction site, clear rock crushers in the quarry, and demolish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

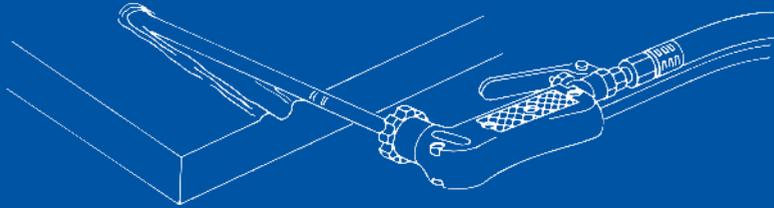
BROCO®
**INDUSTRIAL CUTTING AND
WELDING SOLUTIONS**

Broco® Industrial Exothermic Torch Provides Powerful Performance



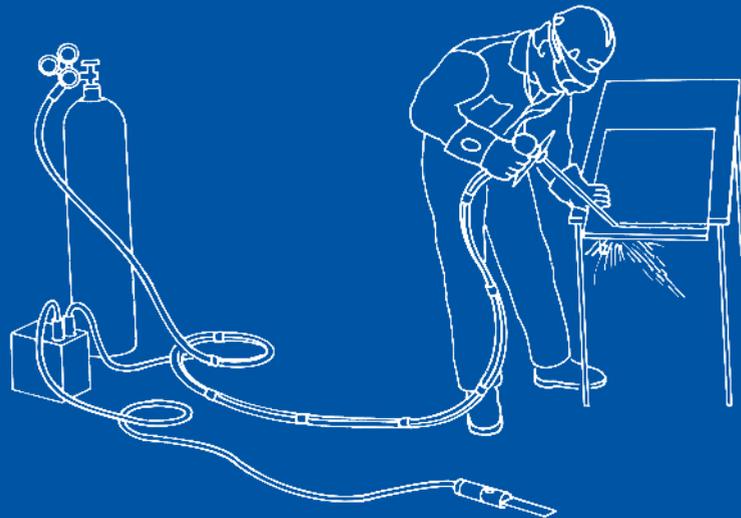
Piercing

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 and 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 Exothermic 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 Broco Exothermic 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

- 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"



High Performance in Adverse Environments

Exothermic rods burn in any environment, even submerged in water 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.

Broco Exothermic[®] 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.

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

Broco Industrial Cutting Rods now offer the same Broco quality with 20% longer burn time and 25% more cutting per rod than regular cutting rods. That means fewer rod changes, less heat loss between changes, and more Broco high performance output.

Broco Easylight™ Cutting rods ignite with a 9 volt battery, eliminating the need for a large battery, striker plate and cables. Broco Easylights come in 3/8" x 24" and each rod burns one minute and 30 seconds. They contain no hazardous materials and ship standard worldwide. Ideal for remote cutting operations.



The professional's first choice for cutting, gouging or piercing almost 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

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

***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.***



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.

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

GOWELD® delivers more amps, handles more volts, and accommodates more wire sizes without the need for an AC power source. 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 provide the power to weld anytime, anywhere.

GOWELD® comes with 20' power cable and gas line, ground cable with clamp, wiring harness, battery jumper cable, contact tips, 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.

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 true-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)



Choose the Broco® Industrial complete solution for your job.



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.



PC/A-5V2HR



PC/TA-60

(30' extension hose)

Industrial Welding Products List

BROCO[®]
INDUSTRIAL CUTTING AND
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Industrial Torch Sets

MODEL NO. TORCH LENGTH	PC/A-20 20' Long Hose	PC/TA-60 30' 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 Lightweight Battery w/ Charger			●
Backpack w/ Accessories			●
Oxygen Cylinder			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-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 and 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	
PC/SP-5	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)
PC/SP-30	Striker Plate Assembly	30' Cable with Red Plug (for PC/TA-60)
152	Striker Plate Handle	Plastic, black
153	Copper Plate	Striker replacement
PCRP-154	Insulator Dowel	Striker replacement
158	Screw, Striker Handle	Nylon (2 required)
PCRP-315	Leather Shield	

Exothermic Cutting Rods & Accessories

PROD. NUMBER	DESCRIPTION	UNIT
PC/3818-25	3/8" x 18" Rods	25 rods per box
PC/3818-50	3/8" x 18" Rods	50 rods per box
3824EZ-25	3/8" x 24" Rods	25 rods per box
PC/3836-10	3/8" x 36" Rods	10 rods per box
PC/3836-25	3/8" x 36" Rods	25 rods per box
PC/3860-25	3/8" x 60" Rods	25 rods per box
PC/1418-50	1/4" x 18" Rods	50 rods per box
PC/1418-100	1/4" x 18" Rods	100 rods per box
PC/1436-50	1/4" x 36" Rods	50 rods per box
PC/1248-25	1/2" x 48" Rods	25 rods per box
31618/PC-20	3/16" x 18" Rods	20 Piece Pack
PC/XT	Rod Extender	Increase reach by 36"
BOC-N045	O2 Cylinder, Aluminum	45 cubic feet @ 2216 psi

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