



## PORTABLE CUTTING SYSTEM (PCS) Part #6000

British and Metric version available upon request.

The Portable Cutting System (PCS) is a hand-carried Petrogen system that provides operators with all the components necessary to conduct shortened hot cutting operations. The system comes with a filler pigtail, which allows operators to trans-fill the included 23 cubic foot oxygen bottle. A medical yoke adapter used to connect a CGA 540 oxygen regulator to a CGA 870 valve. A carry case with torch and Heavy Duty Igniter bracket and removable aluminum spacer to accommodate torches with a Multi-Fuel Adapter attached to them.

### System Contents

- Torch (20 inch, 90 degree)
- (3) Cutting Tips (0, 81, & 83)
- Liquid Fuel Hose (20 foot)
- Oxygen Hose (20 foot)
- Liquid Fuel Tank (2 quart)
- (2) Fuel Quick Disconnects
- (2) Oxygen Quick Disconnects
- Oxygen Flashback Arrestor
- 23 Cubic Foot CGA 540 Industrial Oxygen Bottle
- Medium Duty Oxygen Regulator (CGA 540)
- Heavy Duty Igniter
- Carry Case
- Filler Pigtail
- Medical Yoke Adapter
- Spare Parts Kit (see list for contents)
- Tool Kit (see list for contents)
- Adjustable Wrench
- Safety Glasses (Shade 5)
- Welding Gloves
- Reference Manual & Training Video



### Usable Fuels:

- Gasoline (any grade)
- White Gas
- Camping Fuel
- Stabilizer Additive Fuels
- \* Diesel
- \* Bio-diesel
- \* Kerosene
- \* Jet-A, JP-8, JP-5 and JP-24

\* Torch requires the addition of the Multi-Fuel Adapter Kit.

The PCS Carry Case holds a 23 Cubic Foot CGA 540 Oxygen Bottle which allows for:

- 25 min. of cutting on 1/4 in. steel
- 13 min. of cutting on 1 in. steel
- 5 min. of cutting on 4 in. steel





## Tip Selection Chart

STANDARD		Pounds / Inches <sup>2</sup>	
Tip No.	Inches	Fuel	Oxygen
0, HHO	0 - ¼	10 - 20	12 - 17
1, 81, HH1	¼ - 1	10 - 20	17 - 25
2, HH2	1 - 2	10 - 20	25 - 35
3, 83, HH3	2 - 4	10 - 20	35 - 40
4, HH4	4 - 6	12 - 20	40 - 50
5, HH5	6 - 8	14 - 20	50 - 60
6, HH6	8 - 10	16 - 20	70 - 80
7	10 - 12	18 - 20	80 - 100
8	12 - 14	20	120+
L	Heating	18-20	100

- Tip sizes 81 and 83 are “scrapping” tips. They both have the pre-heating capabilities of our largest tip, tip size 8. This encourages faster preheat through rust, dirt and paint. The 81 has the cutting capabilities of our tip size 1, and the 83 has the cutting capabilities of our tip size 3.
- High Heat Tips (Part #HH0-HH6) are designed for use with the Multi-Fuel Adapter (Part #8000).

## Head Angle Options

- 75° - Is commonly selected for the 36 inch or 48 inch torch. This angle is mostly used where the torch operator needs reasonable standoff distance and the material being cut is located on the ground.
- 90° - Is the angle mostly used where the torch operator needs to cut a material that runs parallel to the torch.
- 180° - Is the angle commonly used by machine torches and operators performing cuts on walls or overhead.

## Lifetime Warranty

Any Petrogen product found to be defective in materials or craftsmanship will be repaired or replaced at no charge during the warranty period (25 Years).

## Tool Kit Part #4003

- Packing Nut Wrench (Part #4011)
- Tip Reamer (Part #4012)
- Two Part Tip Brush (Part #4013)
- Jackscrew (Part #4016)
- Tip Drill Set (Part #4018)
- Hex Allen Wrench (Part #4019)

## Spare Parts Kit Part #4002

- Preheat Oxygen Valve (Part #1300)
- H.P. Oxygen Valve (Part #1350)
- H.P. Valve Ext. O-rings (Part #1356)
- H.P. Valve Int. O-rings (Part #1357)
- Lever Nut (Part #1403)
- Lever Screw (Part #1404)
- Mixer Assembly (Part #1800)
- (2) Metal Wicks (Part #1802)
- Mixer Lrg. O-ring (Part #1803)
- Mixer Sml. O-ring (Part #1356)
- Filler Cap Gasket (Part #2157)
- Leather Pump Cup (Part #2327)
- Check Valve Flat Seal (Part #2306)
- O-ring Installation Tool (Part #4017)
- Extra Flint for Sparker (Part #4021)

## Other

- Multi-Fuel Adapter Kit  
Part #8000
- Air Pressure Regulator Kit  
Part #2348
- Compressed Air Carry Tank  
Part #2365
- Hand Cart  
Part #4560

