

Pro-Cut[®] 80

The Pro-Cut 80 exhibits maximum cutting ability with a full 85 amps of power, slicing through metal up to 1-1/4" (32mm) thick with ease! Using six patented technologies, the unit is perfect for maintenance, fabrication or other applications which require cutting of thicker metals. The machine weighs only 95 lbs. (43 kg.) and its optional "valet style" undercarriage provides uncluttered cable storage and easy transport on the job site.



Processes

Air Plasma Cutting Gouging

Advantage Lincoln

- 85 amps of power for quality cut performance up to 1-1/4" (32mm) in only a 95 lb. (43kg) package.
- Dual winding technology for fast arc transfers and improved cut quality.
- Patented PCT 80 torch and VORTECH™ technology consumables for excellent cutting speed and performance.
- Can be powered by most Lincoln engine driven welders for ultimate portability.
- Back-lit LED system for status indicators eliminates confusion yet conveys all the information necessary to monitor the power source readiness.
- Parts-In-Place safety indicator and lockout circuit to protect both the operator and the system.
- Quick disconnect torch for fast and easy torch removal.
- "Valet Style" undercarriage available for easy transport around the shop or site.
- CNC/Robotic Interface is included as a standard feature.
- Three-year warranty on parts and labor. (1 year warranty on plasma torch.)

Description

Output **CC** **DC** Input **1** **3** **50/60**
PHASE PHASE Hz

Base Unit Includes

- PCT 80 Torch
- Work lead and clamp
- Spare consumables
- Built-in air filter and pressure regulator with gauge

Recommended General Options

Valet Style Undercarriage, Combination Circle Cutting Kit, Inverter and Wire Feeder Cart, Suction Pivot, Replacement Bushing, Torches

Order

K1581-1	w/25 ft. (7.6m) torch	208/230/460/1/3/50/60
K1581-2	w/50 ft. (15.2m) torch	208/230/460/1/3/50/60
K1581-3	w/25 ft. (7.6m) torch	460/575/3/50/60
K1581-4	w/50 ft. (15.2m) torch	460/575/3/50/60
K1677-1	w/25 ft. (7.6m) torch	220/380/415/3/50/60
K1677-2	w/50 ft. (15.2m) torch	220/380/415/3/50/60

TECHNICAL SPECIFICATIONS

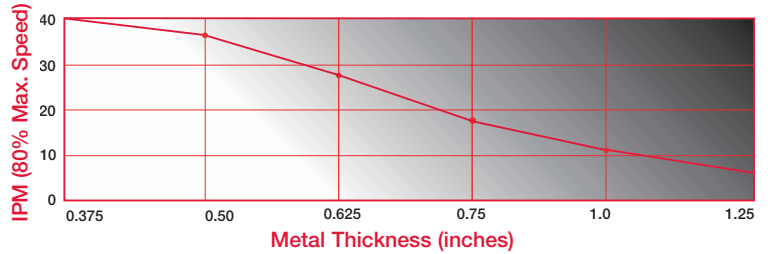
Product Name	Product Number	Input Power	Rated Output Current/Duty Cycle	Input Current @ Rated Output	Pilot Current	Output Range	Air Pressure Required	Air Flow Rate	Dimensions H x W x D in. (mm)	Net Weight w/Torch lbs (kg)
Pro-Cut 80	K1581-1	208/230/460/1/3/50/60	80A/60%	1-ph: 87/81/48A	18A	35-85A	70 PSI	480 SCFH	13.7 x 16.5 x 29.5 (348 x 419 x 749)	98 (44.5)
	K1581-2			3-ph: 48/44/25A						113 (51.4)
	K1581-3			3-ph: 25/20A						98 (44.5)
	K1581-4	460/575/3/50/60	65A/100%	113 (51.4)						
	K1677-1	200/380-415/3/50/60	3-ph: 46/27/24A	98 (44.5)						
	K1677-2		113 (51.4)							

A CLOSER LOOK

PERFORMANCE

CUTTING CAPACITY		
Production Capacity	Recommended Capacity	Maximum Capacity
3/4" @ 18 IPM	1" @ 11 IPM	1-1/4" @ 7 IPM

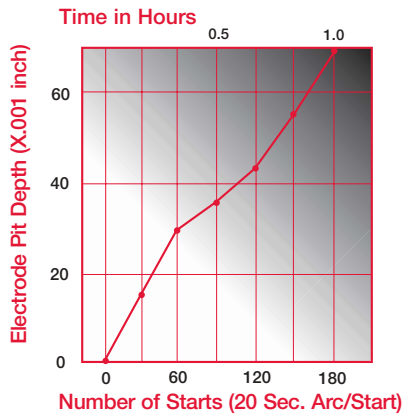
CUT CAPACITY DATA



EXPENDABLE PARTS	
Ordering Information	Description
KP2063-1B1	Electrode
KP2062-2B1	VORTECH™ Nozzle (.043) ⁽¹⁾
KP2062-3B1	VORTECH™ Nozzle (.053)
KP2062-5B1	VORTECH™ Nozzle (.082) Gouging
KP2064-1	Shield Cup
KP2065-1	Drag Cup

⁽¹⁾ .043 Nozzle can be used when cutting at 60 amps or lower for a smaller kerf.

ELECTRODE LIFE TEST DATA⁽²⁾



⁽²⁾ Electrode erosion of .060" is typically end of electrode life.

FEATURES

- One control dial with current indicators for easy operation and setup.
- Air pressure regulator, air filter and pressure gauge are standard. Pressure gauge is right on the control panel for easy setup.

QUALITY AND RELIABILITY

- Parts-In-Place safety indicator and lockout circuit to protect both the operator and the system.
- Thermostatically protected against overheating.
- Line voltage compensation.
- Manufactured under a quality system certified to ISO 9001 requirements.
- Three-year warranty on parts and labor. (1 year warranty on plasma torch.)

A CLOSER LOOK

VORTECH® Technology consumables produce a tighter plasma arc by concentrating the swirl.



Provides an additional kick of arc constriction that "tightens" the arc, concentrating more cutting power than conventional consumables.



Extra swirl built into the bottom of the nozzle.



A long powerful arc cuts thicker and quicker than most comparable units on the market today.



Patented torch technology with air controls in the torch handle allows for faster arc ignition.



Winners Don't Compromise!

Some of the most successful motorsports team fabricators rely on Lincoln welding and cutting equipment.

RECOMMENDED OPTIONS

GENERAL OPTIONS



Valet Style Undercarriage
Valet style undercarriage with unique pull-out handle. Provides torch cable storage (up to 50 ft. lengths), work cable storage, and input cord wrap for the ultimate in portability. With the undercarriage installed, the unit may be operated in a vertical position.
Order K1838-1



Combination Circle Cutting Kit
For cutting circles from 2" to 40" (50.8 to 1016mm) in diameter. Works with all K1571 hand torches.
Order K1625-1



Inverter and Wire Feeder Cart
Rugged, heavy-duty rear-wheeled cart includes front casters and non-lift gas bottle platform. Convenient handles allow for easy cable storage while full length side trays store parts and tools. Shipped fully assembled. Small footprint fits through 30 inch door.
Order K1764-1

GENERAL OPTIONS, CONT.



Suction Pivot
For use with non-magnetic metals.
Order K1628-1



Replacement Bushing
Replacement bushing for Circle Cutting Kit.
Order K1626-1



Torches
Hand Torch
Order K1571-1 for 25 ft. (7.6m)
Order K1571-2 for 50 ft. (15.2m)

Machine Torch
Order K1571-3 for 25 ft. (7.6m)

Robotic Torch
Order K1571-5 for 25 ft. (7.6m)

PRO-CUT 80 ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
PRO-CUT 80 w/25 ft. (7.6m) torch, 208/230/460/1/3/50/60	K1581-1		
PRO-CUT 80 w/50 ft. (15.2m) torch, 208/230/460/1/3/50/60	K1581-2		
PRO-CUT 80 w/25 ft. (7.6m) torch, 460/575/3/50/60	K1581-3		
PRO-CUT 80 w/50 ft. (15.2m) torch, 460/575/3/50/60	K1581-4		
PRO-CUT 80 w/25 ft. (7.6m) torch, 220/380/415/3/50/60	K1677-1		
PRO-CUT 80 w/50 ft. (15.2m) torch, 220/380/415/3/50/60	K1677-2		
RECOMMENDED GENERAL OPTIONS			
Valet Style Undercarriage	K1838-1		
Combination Circle Cutting Kit	K1625-1		
Inverter and Wire Feeder Cart	K1764-1		
Suction Pivot	K1628-1		
Replacement Bushing	K1626-1		
Hand Torch			
25 ft. (7.6m)	K1571-1		
50 ft. (15.2m)	K1571-2		
Machine Torch, 25 ft. (7.6m)	K1571-3		
Robotic Torch, 25 ft. (7.6m)	K1571-5		
	TOTAL:		

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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