



PowerCut[®]

900/1300/1600

mechanized plasmarc[®] cutting packages.



Powerful. Durable. Simple.

Powerful, durable, simple.

The PowerCut plasma cutting package will take whatever you throw at it, and ask for more. Designed with ESAB Plasmarc technology, PowerCut machines are more powerful and durable than any other machine in their class. They also make plasma cutting easier and more economical – delivering reliability, high production, and a wide variety of performance features. With design features that simplify operation, reduce set-up time, and enhance consumable life, PowerCut packages let you spend less time troubleshooting and more time cutting. And with the addition of the PowerCut 900 to the family, the most rugged machines in the industry are more versatile and accessible than ever.

PowerCut gives you:

- **Powerful performance** – PowerCut offers the highest speeds and thickness capabilities in its price class, as well as high duty cycle ratings, for outstanding productivity and performance
- **Powerful economy** – through a combination of long part life, high speeds, and simple torch design, the PowerCut series offers the lowest cost per foot of cut of any machine in its price class
- **Powerful durability** – these robust cutters stand up to rugged treatment and outdoor use, plus cut up to 1 ½ inch metal with ease
- **Powerful ease of operation** – with features such as the tool-less quick disconnect torch and a digital readout display, the PowerCut family is easy to set up and operate, increasing productivity and reducing downtime

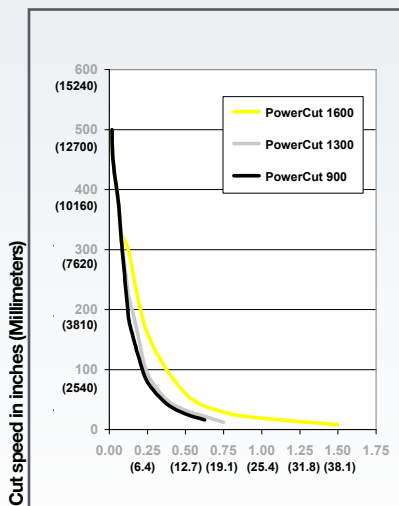


PowerCut Features:

- **Rugged design** – PowerCut's external housing design is durable, damage-resistant, corrosion-resistant, and weather-resistant, while remaining lightweight for portability
- **Tool-less quick disconnect torch** – disconnects from the machine without the use of wrenches or special tools. Now you can easily disconnect your PT-38 torch for storage, repairs, or replacement, or to attach a PT-37 mechanized torch for mechanized applications.
- **Digital readout display** – easy to read and shows the exact pressure or amperage, so you can operate with confidence. The display also shows help codes to assist in troubleshooting minor errors, reducing downtime.
- **Input voltage selector switch** – conveniently located on the back of the machine, lets you easily change input voltage from 208-460 (1300 and 1600 models only)
- **Blowback technology** – eliminates high-frequency startups that can disrupt CNC controls and nearby computer systems
- **Auto-modes (gouge, grate, and normal modes)** – switch between modes automatically, tailoring your application without manually changing settings on the console
- **Isolated electronics** – sensitive internal electronics are isolated from the cooling air flow diminishing exposure to airborne particulate

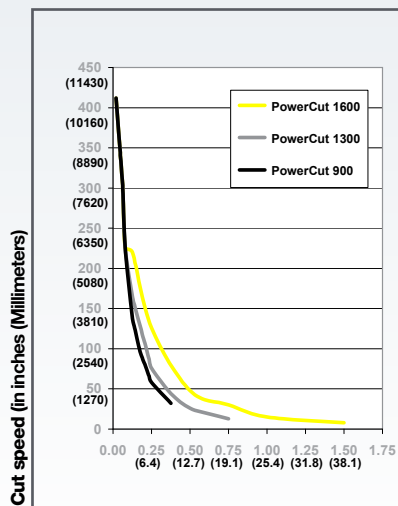


PT-37 Mechanized cut speeds
Carbon Steel



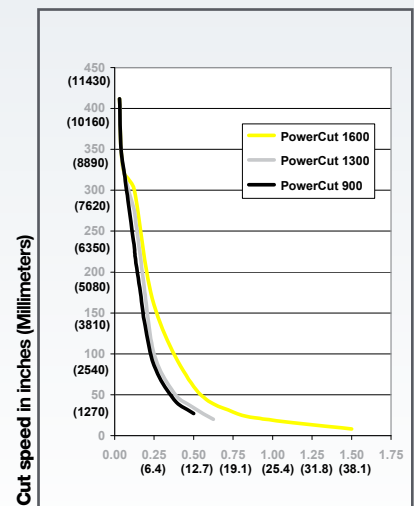
Thickness in inches (Millimeters)
Data collected using standard consumables and 80 psi Air

PT-37 Mechanized cut speeds
Stainless Steel



Thickness in inches (Millimeters)
Data collected using standard consumables and 80 psi Air

PT-37 Mechanized cut speeds
Aluminum



Thickness in inches (Millimeters)
Data collected using standard consumables and 80 psi Air

- **Sealed switches** – silicone-sealed switches are immune to corrosion, as well as dust and dirt infiltration
- **Gouging capability** – PowerCut delivers the extra output voltage needed for superior plasma gouging capability
- **Automatic fan control** – the cooling fan is automatically controlled to run only when necessary, to conserve energy and reduce ingested dust and dirt
- **Built-in power line conditioner** – protects against damage from power line noise and spikes, even with poor-quality power
- **Torch wrap and spare parts kit holder** – now standard on all packages, the holder lets you neatly fold up excess torch cables for convenient storage in your consumable box
- **Plug-n-play mechanized option** – lets you easily transform your manual cutting system into a powerful mechanized system for your gantry machine
- **Optional five-year warranty** – PowerCut packages come with a three-year warranty and an option to purchase an extended warranty for a total of five years



Plasma offers Precision, Versatility and Value

ESAB invented plasma cutting in 1955, and since then we've never stopped supplying our customers with the industry's most advanced plasma cutting solutions. Plasma efficiently cuts both ferrous and non-ferrous metals quickly and accurately, offering a customer higher production and quality cutting solutions when compared to its oxyfuel counterpart. With just shop air, plasma's more versatile cutting capability offers a fabricator maximum flexibility at minimal costs.

Advantages of Plasma

Better Cut Quality and Speed

- Excellent cut edge quality with low angularity
- Smaller heat effected zone
- Easier process to control to maintain cut consistency

Lower Cost per Part

- Virtually dross free cuts requiring minimal clean up
- No preheat time provides very fast piercing
- Much faster cutting speeds
- Uses only compressed air vs. oxygen and fuel gas
- Safer process
- Long consumable life further provides lower production costs

High Versatility

- Cuts any material that conducts electricity (stainless steel, aluminum, carbon steel and other alloys)
- Fine feature cutting capability eliminates some work-in-process steps

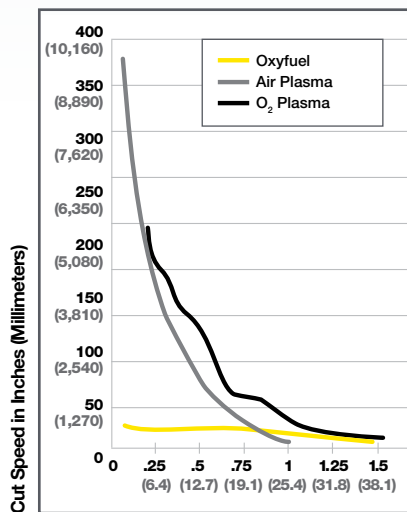


Plasma can be defined as an electrically heated gas stream. The gas stream is heated to such high temperature that it becomes ionized. The ionized gas by definition can then freely exchange electrons between atoms. This electron movement is what allows the gas to carry the cutting amperage and provide tremendous cutting potential.

Lower Costs Across the Board

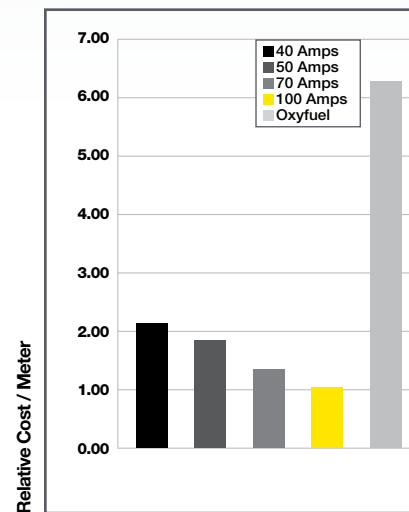
With over 50 years of experience producing manual and mechanized plasma cutting systems, ESAB is unsurpassed when it comes to reducing operation costs. In addition to attractive pricing, plasma nozzles and electrodes are designed for long life. Also, ESAB offers simplified torch designs that significantly reduces wear on the other parts as well as the quantity of other parts that need replacing.

**Air Plasma vs. Oxyfuel
Cut Speeds**



Thickness in inches (Millimeters)

**Air Plasma vs. Oxyfuel
Cut Costs / Meter**



Costs associated with cutting .25" Carbon Steel

PowerCut family line.



PowerCut 900

Manual cut capacity

- Cuts 7/8 in (22 mm)
- Severs 1 1/4 in (32 mm)

Mechanized pierce capacity

- Maximum 1/2 in (13 mm)



PowerCut 1300

Manual cut capacity

- Cuts 1 1/4 in (32 mm)
- Severs 1 1/2 in (38 mm)

Mechanized pierce capacity

- Maximum 5/8 in (16 mm)



PowerCut 1600

Manual cut capacity

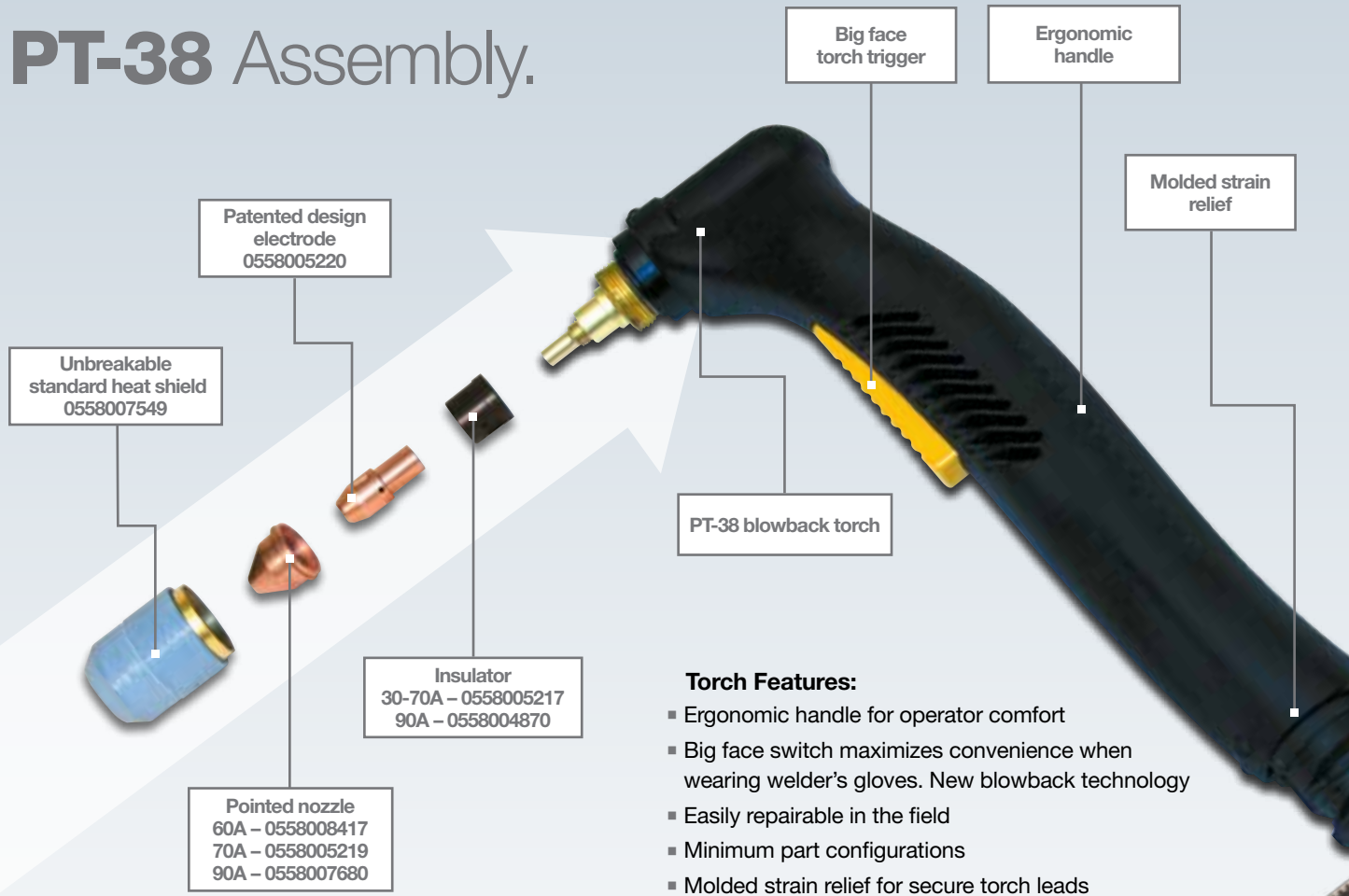
- Cuts 1 1/2 in (38 mm)
- Severs 1 3/4 in (44 mm)

Mechanized pierce capacity

- Maximum 3/4 in (19 mm)



PT-38 Assembly.



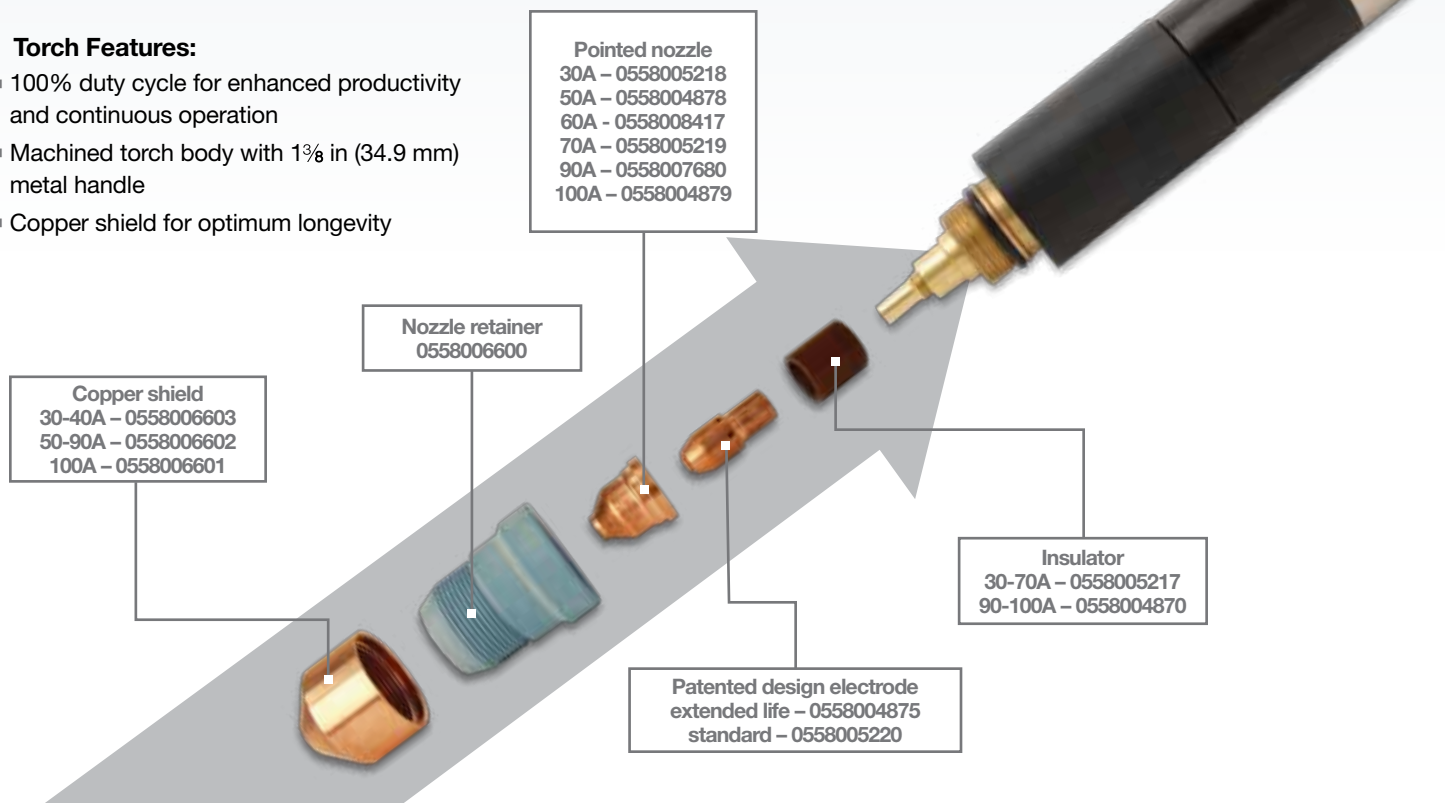
Torch Features:

- Ergonomic handle for operator comfort
- Big face switch maximizes convenience when wearing welder's gloves. New blowback technology
- Easily repairable in the field
- Minimum part configurations
- Molded strain relief for secure torch leads

PT-37 Assembly.

Torch Features:

- 100% duty cycle for enhanced productivity and continuous operation
- Machined torch body with 1 $\frac{1}{8}$ in (34.9 mm) metal handle
- Copper shield for optimum longevity







ESAB

POWERCUT 900

60

System Specs.

			
	PowerCut 900	PowerCut 1300	PowerCut 1600
MANUAL CUT CAPACITY			
CUT	¾ in	1¼ in	1½ in
SEVER	1¼ in	1½ in	1¾ in
MECHANIZED PIERCE CAPACITY MAXIMUM	½ in	¾ in	¾ in
OUTPUT CURRENT	60A	70A	90A
INPUT VOLTAGE	208V-230V 1,3ph 460V 3ph 575V 3ph 400V 3ph 50/60 hz CSA CE	208V-460V 1,3ph 575V 3ph 400V 3ph 50/60 hz CSA CE	208V-460V 1,3ph 575V 3ph 400V 3ph 50/60 hz CSA CE
INPUT CURRENT	208V 1ph: 56 208V 3ph: 28 230V 1ph: 47 230V 3ph: 23	208V 1ph: 70 230V 1ph: 60 208V 3ph: 36 230V 3ph: 31 460V 3ph: 20 400V 3ph: 18 575V 3ph: 14	230V 1ph: 78 208V 3ph: 47 230V 3ph: 41 460V 3ph: 25 400V 3ph: 26 575V 3ph: 11
DUTY CYCLE	60% @ 60A 100% @ 50A	60% @ 70A 1ph 100% @ 70A 3ph	40% @ 90A 1ph 60% @ 90A 3ph
DIMENSIONS L X H X W	25.3 in X 14.2 in X 12.3 in 643 mm X 361 mm X 312 mm	27.8 in X 14.9 in X 12.7 in 706 mm X 378 mm X 323 mm	27.8 in X 14.9 in X 12.7 in 706 mm X 378 mm X 323 mm
WEIGHT	71 lbs (32 kg)	90 lbs (41 kg)	90 lbs (41 kg)
GAS SUPPLY	Air or N ₂	Air or N ₂	Air or N ₂
FLOW RATE AND PRESSURE	400cfh @ 80PSI	400cfh @ 80PSI	400cfh @ 80PSI
TORCH LEAD LENGTHS	25 ft (7.6 m) 50 ft (15.2 m)	25 ft (7.6 m) 50 ft (15.2 m)	25 ft (7.6 m) 50 ft (15.2 m)
RECOMMENDED GENERATOR POWER	1ph 208V 11.6kw 3ph 208V 10kw 1ph 230V 10.8kw 3ph 230V 9.1kw	1ph 230V 13.8kw 3ph 230V 12.4kw 3ph 460V 16kw	1ph 230V 18kw 3ph 230V 16.5kw 3ph 460V 20kw

Specifications subject to change without notice.

Ordering Information Mechanized Packages

PowerCut 900	Part Number	PowerCut 1300	Part Number	PowerCut 1600	Part Number
208V-230V, 25 ft (7.6 mm)	0558009206	208V-230V/460V, 25 ft (7.6 mm)	0558008170	208V-230V/460V, 25 ft (7.6 mm)	0558008176
208V-230V, 50 ft (15.2 mm)	0558009207	208V-230V/460V, 50 ft (15.2 mm)	0558008171	208V-230V/460V, 50 ft (15.2 mm)	0558008177
460V, 25 ft (15.2 mm)	0558009210	575V, 25 ft (7.6 mm)	0558009198	575V, 25 ft (7.6 mm)	0558009182
460V, 50 ft (15.2 mm)	0558009211	575V, 50 ft (15.2 mm)	0558009199	575V, 50 ft (15.2 mm)	0558009183
575V, 25 ft (7.6 mm)	0558009218				

Includes Torch Rack, CNC Control Cable and Consumables Kit.

Accessories.



The PowerCut cart (0558007898)

This convenient cart features large rear wheels to easily transport your PowerCut around the shop. Its tilted configuration allows for easy viewing of the front display. The cart also provides extra cable wraps for your ground clamp and input cable.



Heavy-duty water separator (0558007897)

The heavy-duty water separator protects your machine by filtering dirt and moisture from severely contaminated lines. The separator comes ready to install on the back of your PowerCut.



Remote hand switch (25' – 0558008349, 50' – 0558009277)

This convenient remote switch allows you to easily start and stop your cutting process in a mechanized application. This switch is for use only on non-CNC controlled cutting applications.



Plug-n-play mechanized kit (900 – 0558008284, 1300/1600 – 0558007885)

Connect your PowerCut machine directly to a CNC controlled cutting table for mechanized applications. This easy-to-use kit allows you to convert your manual system to a fully operable CNC cutting system.



Spare parts kit (60A – 0558008418, 70A – 0558007641, 90A – 0558007639)

Available for the PowerCut 900, 1300, and 1600, spare parts kits provide everything you need to keep your torch running. The package is less expensive than buying each part individually.



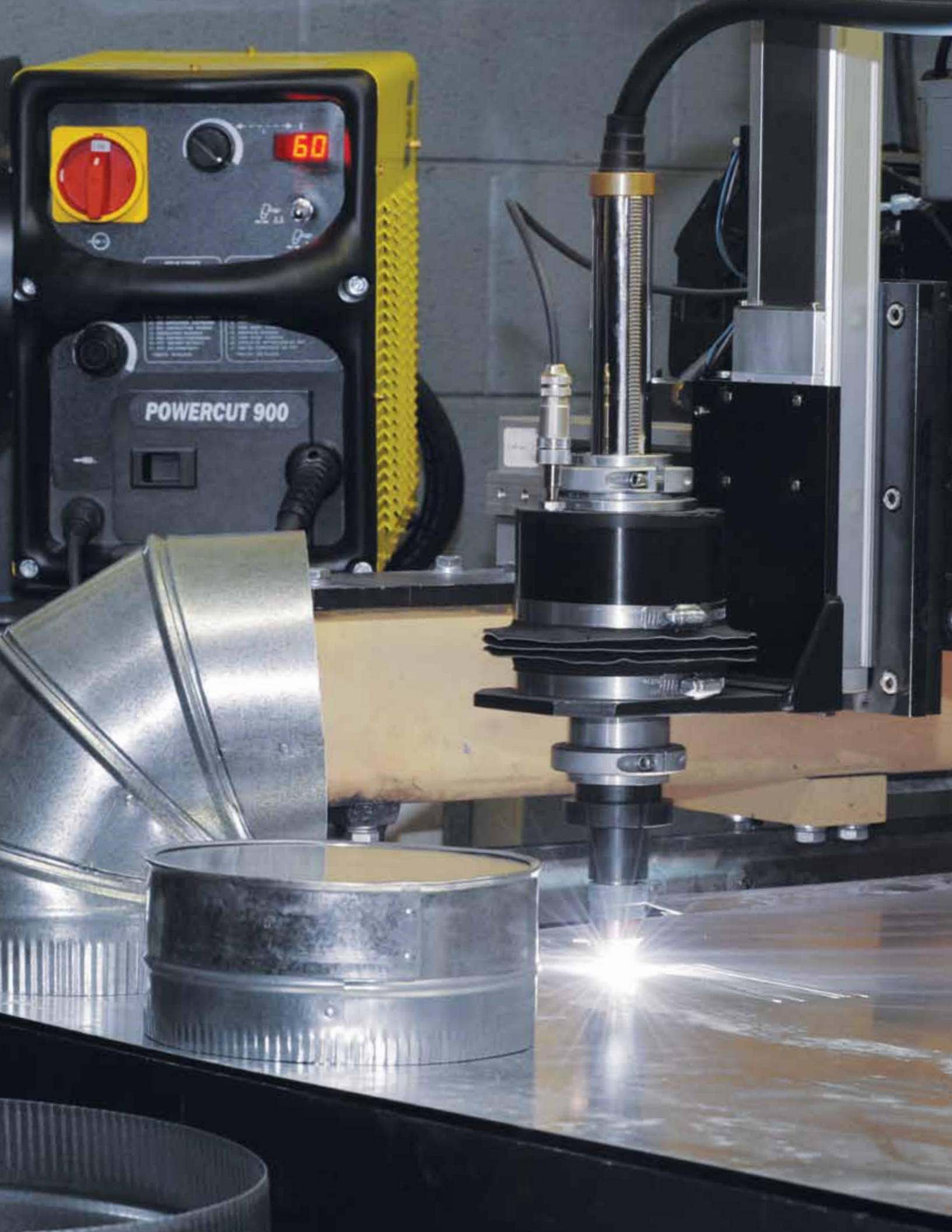
Gas flow measuring kit (19765, CE – 0558000739)

Allows measurement of actual plasma gas flow through torch.



Torch holder assembly (0558005926)

Manually adjustable torch holder with hand wheel. Handles 1 3/8" diameter torch barrels with a 32 pitch rack.



Unrivaled service and support.



Every ESAB product is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with maintenance and upgrading of your machines. Our products are backed with the most comprehensive warranty in the business.

With ESAB, you can be sure that you purchased a machine that will meet your needs today and in the future. Product and process training is also available. Ask your ESAB sales representative or distributor for a complete ESAB solution.

STRENGTH THROUGH COOPERATION

ESAB Welding & Cutting Products / esabna.com / 1.800.ESAB.123

USA: P.O. Box 100545, 411 South Ebenezer Road, Florence, SC 29501-0545

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Mexico: Ave. Diego Díaz de Berlanga No. 130, Col. Nogalar San Nicolás de Los Garza N.L. CP 66480 Monterrey, Mexico



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