

# Hand Cutting Torches

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Gas  
Equipment



## Quick Specs

### Typical Applications

Shipbuilding    Farm and ranch  
Railroad        Metal fabrication  
Salvage         Construction and demolition  
Pipeline

### Oxy-Fuel Processes

Cutting  
Gouging

### Fuel Gases

Acetylene  
Propane  
Natural gas  
Propylene

### Head Angles

75 degrees  
90 degrees  
180 degrees

## Solid construction and ease of operation for heavy-duty cutting applications.

**In-tip gas mixing** ensures lowest amount of mixed gas in the system. Sustained backfire can be isolated in the tip, helping protect the operator and the torch.

**Slip-in tip design.** No wrench is needed, allowing for quick and easy tip changes.

**Three-tube construction** keeps gases separate in the cutting attachment until mixed at the tip for safety.

**SC229 heavy-duty cutting torch shown.**

**Ease-on cutting oxygen** provides exceptionally smooth application of cutting oxygen, reducing keyholing and slag blowback without sacrificing extremely high cutting capacity.

**Reversible cutting lever.** Top- or bottom-mount lever for ease of use.

**Adjustable valve resistance.** PTFE packing provides a gas-tight seal while allowing the “drag” to be adjusted to the individual preference.

**Stainless steel ball-style valves** provide smooth adjustment and positive seating to eliminate leaks.

### Gas Axe only (see page 3)

#### Thick-wall forged brass head.

Super-tough, thick-walled head reduces heat warping and damage.

#### Durable brass raised-rib handle

provides comfort and positive grip and reduces operator fatigue.

#### Replaceable hose connections

are easily replaced if damaged, reducing maintenance costs.



Torches are warranted for 25 years, parts and labor (except Gas Axe™ torches — one year).



### Smith Equipment

A Brand of Miller Electric Mfg. LLC  
2601 Lockheed Avenue  
Watertown, SD 57201

### Equipment Sales US and Canada

Phone: 866-931-9730  
International Phone: 920-735-4554

### MillerWelds.com



# SC Series Heavy-Duty Hand Cutting Torches



**Ideal for construction, fabrication and shipyard industries.**  
**Cuts up to 12-inch (305 mm) thick steel with acetylene, propane/natural gas or propylene.**

**Materials of construction**

- Handle, lever and butt: nickel-plated brass (head on SC229S made with thicker-wall manganese bronze for more severe service)
- Tubes: nickel-plated stainless steel
- Hose connections: nickel-plated brass
- Inlet filter: sintered bronze
- Handle tube: nickel-plated brass
- Front piece: nickel-plated brass
- Valve stem: bronze
- Valve packing: PTFE
- Valve ball: stainless steel
- Valve nut: nickel-plated brass
- Valve knob: nickel-plated zinc
- Springs: stainless steel
- Silver-brazed assembly
- Cutting valve stem: stainless steel
- Cutting seat: Buna-N
- Seat retainer: brass
- O-rings: Buna-N

**Specifications**

**SC225, SC229, SC229S, SC220**

Length: 20.5 in. (521 mm)  
except SC220: 21 in. (533 mm)  
Weight: 2.7 lb. (1.22 kg)  
Head angle: 75° (SC225)  
90° (SC229, SC229S)  
180° (SC220)

**SC365, SC369, SC360**

Length: 36 in. (914 mm)  
Weight: 3.3 lb. (1.5 kg)  
Head angle: 75° (SC365)  
90° (SC369)  
180° (SC360)

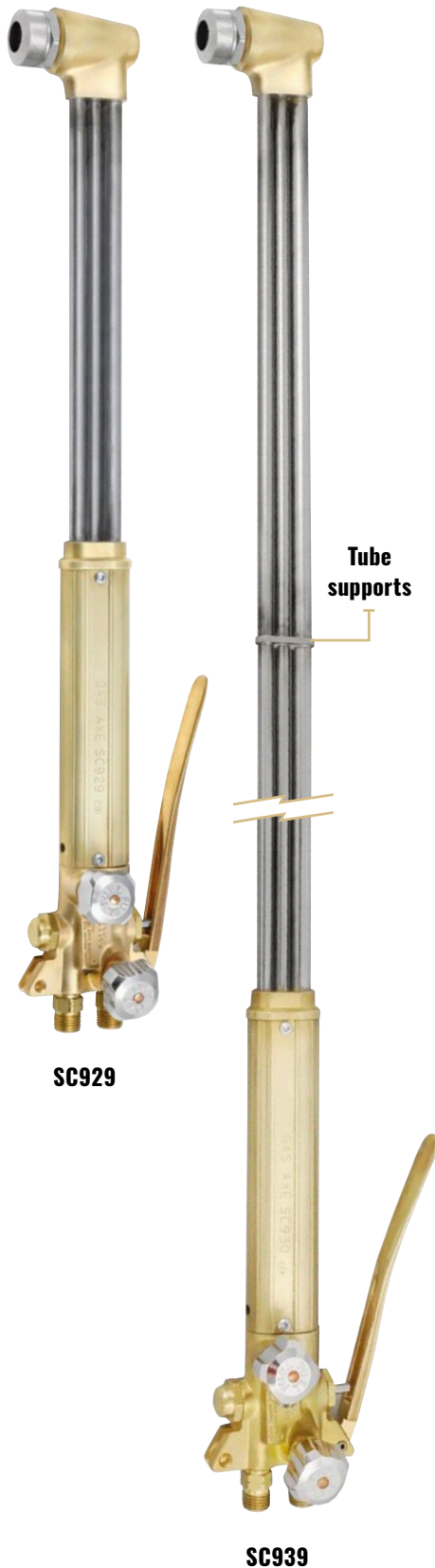


**Electrical Testing Laboratories (ETL) Listed**  
for SC Series hand cutting oxy-fuel torches.

**Compatible tips**

STOCK NUMBER	FUEL GAS	DESCRIPTION	REFERENCE
SC12-00 to SC12-6 SC12-4X9 SC14-3 SC13-3 and SC13-5 SC83	Acetylene	General cutting tips Extra-long cutting tip Rivet/riser cutting tip Gouging tips Heating tip	See separate Cutting and Gouging Tips literature GE/27.0 and Heating Tips literature GE/28.0 for detailed cutting/gouging/heating capacity, pressure settings and gas consumption
SC40-0 to SC40-4 SC46-2, SC46-4 to SC46-6 SC50-0 to SC50-6 SC2-2 and SC2-4 SC112	Propane/ natural gas	General cutting tips Dirty or coated metal cutting tips Heavy preheat cutting tips Gouging tips Heating tip	
SC60-0 to SC60-6	Propylene	Medium preheat cutting tips	

# Gas Axe™ Extra-Heavy-Duty Hand Cutting Torches



**Ideal for scrap and demolition cutting.**

**Cuts up to 12-inch (305 mm) thick steel with acetylene and propylene.**

**Cuts up to 20-inch (508 mm) thick steel with propane/natural gas.**

## Materials of construction

- Head: manganese bronze
- Lever and butt: brass
- Tubes: stainless steel
- Tube supports: stainless steel (not on SC925 or SC929)
- Hose connections: brass
- Handle tube: brass
- Front piece: brass
- Valve stem: bronze
- Valve packing: PTFE
- Valve ball: stainless steel
- Valve nut: brass
- Valve knob: nickel-plated zinc
- Springs: stainless steel
- Silver-brazed assembly
- Cutting valve stem: stainless steel
- Cutting seat: Buna-N
- Seat retainer: brass
- O-rings: Buna-N



**CAUTION!** Gas Axe torches must be used in conjunction with high-flow flashback arrestors.

## Specifications

### SC925, SC929

Length: 21 in. (533 mm)  
Weight: 3.5 lb. (1.6 kg)  
Head angle: 75° (SC925)  
90° (SC929)

### SC935, SC939, SC930

Length: 36 in. (914 mm)  
Weight: 4.2 lb. (1.9 kg)  
Head angle: 75° (SC935)  
90° (SC939)  
180° (SC930)

### SC945, SC949, SC940

Length: 48 in. (1,219 mm)  
Weight: 4.8 lb. (2.2 kg)  
Head angle: 75° (SC945)  
90° (SC949)  
180° (SC940)

### SC965, SC969, SC960

Length: 72 in. (1,829 mm)  
Weight: 6.2 lb. (2.8 kg)  
Head angle: 75° (SC965)  
90° (SC969)  
180° (SC960)

## Compatible tips

STOCK NUMBER	FUEL GAS	DESCRIPTION	REFERENCE
SC12-00 to SC12-6 SC12-4X9 SC14-3 SC13-3 and SC13-5 SC83	Acetylene	General cutting tips Extra-long cutting tip Rivet/riser cutting tip Gouging tips Heating tip	See separate Cutting and Gouging Tips literature GE/27.0 and Heating Tips literature GE/28.0 for detailed cutting/gouging/heating capacity, pressure settings and gas consumption
SC40-0 to SC40-4 SC46-2, SC46-4 to SC46-6 SC50-0 to SC50-9 SC2-2 and SC2-4 SC112	Propane/natural gas	General cutting tips Dirty or coated metal cutting tips Heavy preheat cutting tips Gouging tips Heating tip	
SC60-0 to SC60-6	Propylene	Medium preheat cutting tips	

## Recommended high-flow regulators

(for use with SC50-6 to SC50-9 heavy preheat propane/natural gas cutting tips)

STOCK NUMBER	FUEL GAS	DESCRIPTION	REFERENCE
40-175-540 40-275-540	Oxygen	Series 40™ heavy-duty single-stage cylinder regulators	See separate Series 40 and Series 46 Regulators literature GE/5.0 for detailed delivery/inlet pressures and outlet/inlet connections.
46-175		Series 46™ heavy-duty single-stage station regulators	
40-50-510	Propane/natural gas	Series 40™ heavy-duty single-stage cylinder regulators	
46-50		Series 46™ heavy-duty single-stage station regulators	

# Ordering Information

HAND CUTTING TORCHES	STOCK NO.	DESCRIPTION	QTY.	PRICE
SC Series Heavy-Duty Cutting Torches	SC225	20.5 in. (521 mm), 75° head angle		
	SC229	20.5 in. (521 mm), 90° head angle		
	SC229S	20.5 in. (521 mm), 90° head angle (extra-heavy-duty head)		
	SC220	21 in. (533 mm), 180° head angle		
	SC365	36 in. (914 mm), 75° head angle		
	SC369	36 in. (914 mm), 90° head angle		
	SC360	36 in. (914 mm), 180° head angle		
Gas Axe™ Extra-Heavy-Duty Cutting Torches	SC925	21 in. (533 mm), 75° head angle		
	SC929	21 in. (533 mm), 90° head angle		
	SC935	36 in. (914 mm), 75° head angle		
	SC939	36 in. (914 mm), 90° head angle		
	SC930	36 in. (914 mm), 180° head angle		
	SC945	48 in. (1,219 mm), 75° head angle		
	SC949	48 in. (1,219 mm), 90° head angle		
	SC940	48 in. (1,219 mm), 180° head angle		
	SC965	72 in. (1,829 mm), 75° head angle		
	SC969	72 in. (1,829 mm), 90° head angle		
	SC960	72 in. (1,829 mm), 180° head angle		
HEAVY-DUTY TIPS		See pages 2 and 3		
SC12 Series One-Piece Cutting Tips		For acetylene. General cutting tips		
SC40 Series Two-Piece Cutting Tips		For propane or natural gas. General cutting tips		
SC46 Series One-Piece Cutting Tips		For propane or natural gas. Dirty or coated metal cutting tips		
SC50 Series Two-Piece Cutting Tips		For propane or natural gas. Heavy preheat cutting tips		
SC60 Series Two-Piece Cutting Tips		For propylene. Medium preheat cutting tips		
Specialty Cutting Tips		For acetylene. Extra-long or rivet/riser cutting tips		
Gouging Tips		For acetylene, propane or natural gas		
Heating Tips		For acetylene, propane or natural gas		
REGULATORS		See page 3		
Series 40™ and Series 46™ Heavy-Duty Single-Stage Regulators		Recommended for use with Gas Axe torches using SC50-6 to SC50-9 tips. See separate Series 40 and Series 46 Regulators literature GE/5.0 for detailed delivery/inlet pressures and outlet/inlet connections		
REPLACEMENT PARTS				
Valve Assembly	LW14B-1			
Hose Connections	3060-1	Oxygen		
	3060-2	Fuel		
ACCESSORIES				
Flashback Arrestors	H743	Torch-mount flashback arrestors (pair)		
Check Valves	H697	Torch-mount reverse-flow check valves (pair)		
Repair Kit	SC100	For SC Series heavy-duty hand cutting torches		
	15772	For Gas Axe extra-heavy-duty hand cutting torches		
Twin-Hoses	TRL1131	For all fuel gases. 20 ft. (6.1 m) "T"-grade, 1/4 in. ID, "B" fittings		
	RL1131	For acetylene only. 25 ft. (7.6 m) "R"-grade, 1/4 in. ID, "B" fittings		
Tip Cleaner	16570			
Adjustable Circle Cutting Guide	16229	Cuts from 5/8 to 12 in. diameter holes — works with all SC-style cutting tips		

See separate Cutting and Gouging Tips literature GE/27.0 and Heating Tips literature GE/28.0 for detailed cutting/gouging/heating capacity, pressure settings and gas consumption.

DATE:

TOTAL QUOTED PRICE:

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