

# Combination Torch Cutting Attachments

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## Quick Specs

### Typical Applications

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

### Oxy-Fuel Processes

Cutting  
Gouging

### Fuel Gases

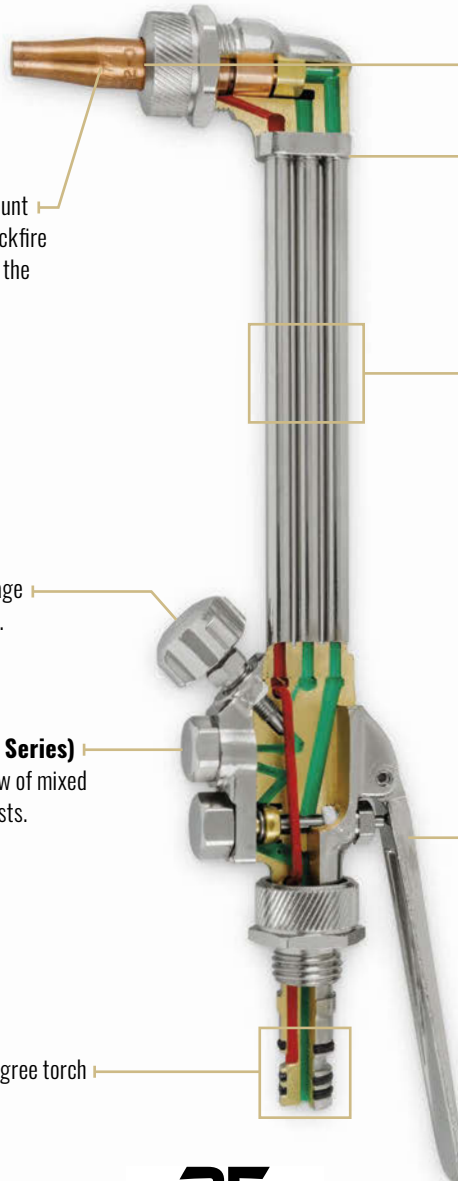
Acetylene  
Propane  
Natural gas  
Propylene

### Head Angles

75 degrees  
90 degrees

## Safe performance and easy handling for even the toughest jobs.

**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.

**Silver-brazed nickel-plated torch joints** provide strength, leak resistance and heat protection.

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

**Center pre-heat valve.** Universal usage for both left- and right-handed operators.

**Flo-Trol™ valve (SC200 and MC500 Series)** prevents seat burn out due to reverse flow of mixed gases, helping to reduce maintenance costs.

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

**Triple o-ring seal** allows easy 360-degree torch head rotation to reduce operator fatigue.



Torch attachments are warranted for 25 years, parts and labor



**Electrical Testing Laboratories (ETL) Listed** for oxy-fuel torches.



### Smith Equipment

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

### Equipment Sales US and Canada

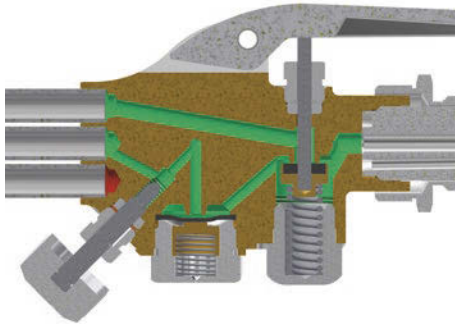
Phone: 866-931-9730  
International Phone: 920-735-4554

### MillerWelds.com

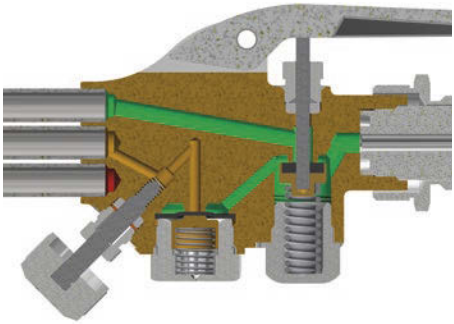


# Flo-Trol™ Valve (SC200 and MC500 Series cutting attachments only.)

Flo-Trol is a built-in check valve in the cutting attachment that automatically closes when there is insufficient oxygen pressure. It increases safety for the operator while preventing the costly repair of mixed gas flowing back and potentially burning out the cutting seat.



**Open Flo-Trol valve.** When the oxygen supply pressure is able to overcome the force of the spring, the Flo-Trol valve opens, allowing the free flow of preheat oxygen.



**Closed Flo-Trol valve.** If there is insufficient oxygen, the oxygen is unable to overcome the force of the Flo-Trol spring, stopping the flow of preheat oxygen or mixed gas travelling back to the system from a starved tip.

## SC200 Series Heavy-Duty Cutting Attachments



**Handles heavy-duty cutting requiring high gas flow.**

**Cuts up to 8-inch (203 mm) thick steel with WH200A heavy-duty torch handle.**

**Materials of construction**

- Handle, lever and butt: nickel-plated brass
  - Tubes: nickel-plated stainless steel
  - Valve stem: stainless steel
  - Valve packing: PTFE
  - Flo-Trol™ diaphragm: Buna-N
  - Springs: stainless steel
  - Silver-brazed assembly
- Stem: stainless steel
  - Cutting seat: polyurethane
  - Seat retainer: brass
  - Gasket: polyester
  - Spring retainer: nickel-plated brass
  - Backend: nickel-plated brass
  - Backend nut: nickel-plated brass
  - O-rings: Buna-N

**Specifications**

Length: 12.5 in. (318 mm)  
Weight: 1.83 lb. (0.83 kg)  
Head angle: 75° (SC205)  
90° (SC209)

FUEL GAS	TORCH HANDLE		CUTTING AND GOUGING TIPS		
	STOCK NO.	LENGTH	STOCK NO.	DESCRIPTION	REFERENCE
Acetylene	WH200A	7.5 in. (191 mm)	SC12-00 to SC12-5 SC12-4X9 SC14-3 SC13-3 and SC13-5	General cutting tips Extra-long cutting tip Rivet/riser cutting tip Gouging tips	See separate Cutting and Gouging Tips literature GE/27.0 for detailed cutting/gouging capacity, pressure settings and gas consumption
Propane/natural gas			SC40-0 to SC40-4 SC46-2 and SC46-4 SC50-0 to SC50-5 SC2-2 and SC2-4	General cutting tips Dirty or coated metal cutting tips Heavy preheat cutting tips Gouging tips	
Propylene			SC60-0 to SC60-5	Medium preheat cutting tips	

# MC500 Series and Toughcut™ CC509P Medium-Duty Cutting Attachments



**Handles everyday cutting needs.**

**Cuts up to 6-inch (153 mm) thick steel with WH100 medium-duty torch handle.**

## Materials of construction

- Handle, lever and butt: nickel-plated brass
- Tubes: nickel-plated cupronickel
- Valve stem: stainless steel
- Valve packing: PTFE
- Flo-Trol™ diaphragm (MC500 Series only): Buna-N
- Springs: stainless steel
- Silver-brazed assembly

- Stem: stainless steel
- Cutting seat: Buna-N
- Seat retainer: brass
- Gasket: polyester
- Spring retainer: nickel-plated brass
- Backend: nickel-plated brass
- Backend nut: nickel-plated brass
- O-rings: Buna-N

## Specifications

Length: 11.25 in. (286 mm)  
Weight: 1.1 lb. (0.5 kg)  
Head angle: 75° (MC505)  
90° (MC509)  
90° (CC509P)

## Medium-Duty Cutting Attachment Comparison

MODEL	SAFETY FEATURE	TYPICAL APPLICATIONS	FINISH
MC500 Series	With Flo-Trol	Shipbuilding, railroad, salvage, construction and demolition, pipeline, metal fabrication	Nickel plated, buffed and polished
Toughcut CC509P	Without Flo-Trol	Farm and ranch, metal fabrication, auto repair	Nickel plated

FUEL GAS	TORCH HANDLE		CUTTING AND GOUGING TIPS		
	STOCK NO.	LENGTH	STOCK NO.	DESCRIPTION	REFERENCE
Acetylene	WH100	7 in. (178 mm)	MC12-00 to MC12-5 MC13-3	General cutting tips Gouging tip	See separate Cutting and Gouging Tips literature GE/27.0 for detailed cutting/gouging capacity, pressure settings and gas consumption
Propane/natural gas			MC40-0 to MC40-4	General cutting tips	

# AC309 Standard-Duty Cutting Attachment



**Handles light-duty cutting needs.**

**Cuts up to 3-inch (76 mm) thick steel with AW1A standard-duty torch handle.**

## Materials of construction

- Handle, lever and butt: nickel-plated brass
- Tubes: nickel-plated cupronickel
- Valve stem: stainless steel
- Valve packing: PTFE
- Springs: stainless steel
- Silver-brazed assembly
- Stem: stainless steel

- Cutting seat: Buna-N
- Seat retainer: brass
- Gasket: polyester
- Spring retainer: nickel-plated brass
- Backend: nickel-plated brass
- Backend nut: nickel-plated brass
- O-rings: Buna-N

## Specifications

Length: 8.5 in. (216 mm)  
Weight: 1 lb. (0.44 kg)  
Head angle: 90°

FUEL GAS	TORCH HANDLE		CUTTING AND GOUGING TIPS		
	STOCK NO.	LENGTH	STOCK NO.	DESCRIPTION	REFERENCE
Acetylene	AW1A	5.75 in. (146 mm)	MC12-00 to MC12-4 MC13-3	General cutting tips Gouging tip	See separate Cutting and Gouging Tips literature GE/27.0 for detailed cutting/gouging capacity, pressure settings and gas consumption
Propane/natural gas			MC40-0 to MC40-4	General cutting tips	

# Ordering Information

COMBINATION TORCH CUTTING ATTACHMENTS	STOCK NO.	DESCRIPTION	QTY.	PRICE
SC200 Series Heavy-Duty Cutting Attachments	SC205	75° head angle, Flo-Trol™ valve		
	SC209	90° head angle, Flo-Trol™ valve		
MC500 Series Medium-Duty Cutting Attachments	MC505	75° head angle, Flo-Trol™ valve		
	MC509	90° head angle, Flo-Trol™ valve		
Toughcut™ Medium-Duty Cutting Attachment	CC509P	90° head angle		
Standard-Duty Cutting Attachment	AC309	90° head angle		
COMBINATION TORCH HANDLES				
Heavy-Duty Handle	WH200A	For use with SC200 Series cutting attachments		
Medium-Duty Handle	WH100	For use with MC500 Series and Toughcut CC509P cutting attachments		
Standard-Duty Handle	AW1A	For use with AC309 cutting attachment		
HEAVY-DUTY TIPS (for use with SC200 Series cutting attachments)		See page 2	See separate Cutting and Gouging Tips literature GE/27.0 for detailed cutting/gouging capacity, pressure settings and gas consumption.	
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		
MEDIUM-DUTY/STANDARD-DUTY TIPS (for use with MC500 Series/CC509P/AC309 cutting attachments)		See page 3		
MC12 Series One-Piece Cutting Tips		For acetylene. General cutting tips		
MC40 Series Two-Piece Cutting Tips		For propane or natural gas. General cutting tips		
Gouging Tip		For acetylene		
REPLACEMENT PARTS				
Cutting Assembly for SC200 Series	SC101	Heavy-duty seat assembly with O-rings, pin, packing, gasket and diaphragm		
O-rings for SC200 Series (25 per package)	LW15	Heavy-duty O-ring seal — also for use with SW welding tips and ST heating tips		
Torch Head Nut for SC200 Series	G900-41A	Heavy-duty torch head nut		
Cutting Assembly for MC500 Series and CC509P	MC101	Medium-duty seat assembly with O-rings, pin, packing, gasket and diaphragm		
O-rings for MC500 Series and CC509P (25 per package)	MW15	Medium-duty O-ring seal — also for use with MW welding tips and MT heating tips		
Torch Head Nut for MC500 Series/CC509P/AC309	G690-8	Medium-duty/standard-duty torch head nut		
O-rings for AC309 (25 per package)	AW15	Standard-duty O-ring seal — also for use with AW welding tips and AT heating tips		
ACCESSORIES				
Cylinder Wrench	N230			
Adjustable Circle Cutting Guide	16229	Cuts from 5/8 to 12 in. diameter holes — works with all MC- and SC-style cutting tips		

DATE:

TOTAL QUOTED PRICE:

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