

Toughcut™ Outfits

Gas Equipment 

Quick Specs

Typical Applications

Farm and ranch
Metal fabrication
Auto repair

Oxy-Fuel Processes

Cutting
Heating
Welding
Brazing

Fuel Gases

Acetylene
Propane
Propylene (heating)
Natural gas

Cutting Capacity

Up to 5/8 in. (16 mm) with included tip
Up to 6 in. (153 mm) with optional tips

Heating Capacity

Up to 40,125 Btu with included tip
Up to 280,000 Btu with optional tips

Welding Capacity

Up to 1/8 in. (3 mm) with included tip
Up to 3/8 in. (10 mm) with optional tips

Medium-duty oxy-fuel system for your cutting, heating and welding needs.



Toughcut outfit MB55A-300 shown.

Toughcut outfits include CC509P cutting attachment, WH100 handle, cutting tip, heating and welding tips (except MB54A-510LP), oxy and fuel regulators, 20 ft. (6.1 m) hose, check valves, single-flint lighter, and shade 5 safety glasses.

Designed for Safety

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

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.

Concave-shaped tip end reduces backfire and resists flameout during accidental contact with the base metal while cutting.

External relief valve protects regulator from damage due to inadvertent high-pressure surge. Relief valve will release excessive pressure and automatically reset.

Dual filters including Sure Seat™ protect regulator high-pressure seat from debris for reliable operation and long service life.

High Performance

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

Nickel-plated torch assembly provides heat protection.

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

Internal threads on handle protect threads from damage if torch is dropped.

O-ring seals on cutting attachment and welding tip allow for easy 360-degree rotation to reduce operator fatigue.

Hand-tighten only to seat the tip and attachments, saving time and tools when changing tips.

Graf-Tite™ soft seats on tips compress and conform to the shape of the torch head for positive seating, eliminating leaks even when tips are nicked. Soft seat withstands extremely high temperature for longer tip life.

Easy-to-read two-inch gauges with shatter-resistant polycarbonate lens covers.



Cutting attachment and regulators are warranted for three years and torch handle is warranted for five years, parts and labor.



Underwriters Laboratories (UL) Listed for gas pressure regulators.



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



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CC509P (Toughcut™) Medium-Duty Cutting Attachment



Handles everyday cutting needs.

Cuts up to 6-inch (153 mm) thick steel. For use 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
- 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. (318 mm)
Weight: 1.1 lb. (0.5 kg)
Head angle: 90 degrees

Repair kit MC101

Warranty Three years

Gas Service	Torch Handle		Cutting and Gouging Tips	
	Stock No.	Length	Stock No.	Description
Acetylene	WH100	7 in. (178 mm)	MC12-00 to MC12-5	General cutting tips
			MC13-3	Gouging tip
Propane/natural gas			MC40-0 to MC40-4	General cutting tips

WH100 Medium-Duty Handle



Handles everyday cutting, heating and welding needs.

Cuts up to 6-inch (153 mm) thick steel with MC500 series and Toughcut™ CC509P cutting attachments.

Materials of construction

- Handle, head, tube and butt: brass
- Valve ball: stainless steel
- Valve stem: bronze
- Valve packing: PTFE
- Valve nut: nickel-plated brass
- Valve knob: nickel-plated zinc
- Silver-brazed assembly

Specifications

Length: 7 in. (178 mm)
Weight: 0.86 lb. (0.39 kg)
Handle diameter: 15/16 in. (24 mm)

Inlet connection

“B” size, 9/16"-18 RH and LH

Valve assembly replacement LW17

Warranty Five years

Gas Service	Cutting Attachment		Heating Tips		Welding Tips	
	Stock No.	Head Angle	Stock No.	Btu per Hour	Stock No.	Metal Thickness
Acetylene	MC505	75°	MT603	40,125	MW201	1/32 in. (0.7 mm)
	MC509	90°	MT605	73,085	MW203	5/64 in. (1.9 mm)
	CC509P (Toughcut)	90°	MT610*	128,970	MW205	1/8 in. (3 mm)
Propane/ natural gas			MT805	208,000	MW411 (Brazing)	5/8 in. (16 mm)
			MT615	269,000		
Propylene			MT805	280,000	—	—
			MT615	280,000		

*Two 350 cubic foot acetylene cylinders need to be manifolded together to use this tip.

Medium-Duty Cutting and Gouging Tips



MC12-1
(included in MB55A-510 and MB55A-300 outfits)

Materials of construction

- Body: tellurium copper
- Seats: graphite
- Seat collars: brass



MC40-1
(included in MB54A-510LP outfit)

Materials of construction

- Insert: brass
- Sleeve: brass
- Shell: tellurium copper
- Seats: graphite
- Seat collars: brass

Tip Number	Metal Thickness Inch (mm)	Pressure (psig)		Gas Consumption (scfh)	
		Oxygen	Acetylene	Oxygen	Acetylene
MC12-00	1/8-3/16 (3-5)	20	10	37	6
MC12-0	1/4-3/8 (6-10)	35-40	10	47-53	6
MC12-1	1/2-5/8 (13-16)	45-50	10	84-90	7
MC12-2	3/4-1 (19-25)	50-55	10	118-129	9
MC12-3	1-1/2-2 (38-51)	55-60	10	182-193	10
MC12-4	2-1/2-4 (64-102)	65-70	10	263-335	12-13
MC12-5	5-6 (127-152)	80-90	10	435-500	13
MC13-3*	3/8 x 1/4 (10 x 6)	20	10	115	24**
		Oxygen	Propane	Oxygen	Propane
MC40-0	1/4-3/8 (6-10)	35-40	10	40-46	7
MC40-1	1/2-5/8 (13-16)	45-50	10	75-81	7
MC40-2	3/4-1-1/4 (19-32)	50-60	10	107-133	7
MC40-3	1-1/2-2 (38-51)	55-60	10	170-181	7
MC40-4	2-1/2-4 (64-102)	65-75	10	249-320	7

*MC13-3 is a gouging tip. **Minimum of one 350 cubic foot cylinder required.

Medium-Duty Heating Tips



MT-603
(included in MB55A-510 and MB55A-300 outfits)

Materials of construction

- Head: copper
- Tube: copper
- Nut: nickel-plated brass
- Mixing section: nickel-plated brass
- O-rings: Buna-N

Tip Number	Average Btu/Hour	Pressure (psig)		Gas Consumption (scfh)		Length Inch (mm)	Fuel Cylinders Required
		Oxygen	Acetylene	Oxygen	Acetylene		
MT603	40,125	15	15	31	28	10 (254)	1 (350 cu. ft.)
MT605	73,085	15	15	57	51	16 (406)	1 (350 cu. ft.)
MT610	128,970	15	15	100	90	18 (457)	2 (350 cu. ft.)
		Oxygen	Propane	Oxygen	Propane		
MT615	269,000	20-60	10-25	225-535	70-160	14 (356)	1-2 (100 lb.)
	182,000	Oxygen	Nat. Gas	Oxygen	Nat. Gas		
		Oxygen	Propylene	Oxygen	Propylene		
MT805	280,000	50-60	20-25	242-270	120-135	14 (356)	1 (100 lb.)

Medium-Duty Welding and Brazing Tips



MW205
(included in MB55A-510 and MB55A-300 outfits)

Materials of construction

- Tube: copper
- Nut: nickel-plated brass
- Mixing section: nickel-plated brass
- O-rings: Buna-N

Tip Number	Welding Capacity Inch (mm)	Pressure (psig)		Gas Consumption (scfh)		Drill Size	Length Inch (mm)
		Oxygen	Acetylene	Oxygen	Acetylene		
MW201	1/32 (0.7)	10	10	2.3	2.3	71	7 (178)
MW203	5/64 (1.9)	10	10	3.2	3.2	67	7 (178)
MW205	1/8 (3)	10	10	6	6	57	7 (178)
MW207	3/16 (5)	10	10	12	12	54	8.5 (216)
MW209	3/8 (10)	10	10	23	23	49	8.5 (216)
		Oxygen	Propane/ Nat. Gas	Oxygen	Propane/ Nat. Gas		
MW411*	5/8 (16)	11	11	51.9	13	40	8.5 (216)

*MW411 is a brazing tip.

Series 30™ Medium-Duty Single-Stage Regulators



30-100-540
(included with all outfits)



30-15-510
(included with MB55A-510 outfit)



30-15-300
(included with MB55A-300 outfit)



30-50-510
(included with MB54A-510LP outfit)

Stock Number	Gas	Gauges (2 inch /51 mm)		Max. Delivery Pressure	Max. Inlet Pressure	Outlet Connection	Inlet Connection
		Inlet	Outlet				
30-100-540	Oxygen	4,000 psig (276 bar)	150 psig (10 bar)	100 psig (7 bar)	3,000 psig (207 bar)	9/16"-18 RH "B"	CGA 540
30-20-540	Oxygen	4,000 psig (276 bar)	30 psig (2 bar)	20 psig (1.4 bar)	3,000 psig (207 bar)	9/16"-18 RH "B"	CGA 540
30-15-510	Acetylene	400 psig (28 bar)	30 psig (2 bar)	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 510
30-15-300	Acetylene	400 psig (28 bar)	30 psig (2 bar)	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 300
30-15-520	Acetylene	400 psig (28 bar)	30 psig (2 bar)	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 520
30-15-200	Acetylene	400 psig (28 bar)	30 psig (2 bar)	15 psig (1 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 200
30-50-510	LP gas*	400 psig (28 bar)	60 psig (4 bar)	50 psig (3 bar)	400 psig (28 bar)	9/16"-18 LH "B"	CGA 510
30-150-580	Argon/nitrogen	4,000 psig (276 bar)	200 psig (14 bar)	150 psig (10 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 580
30-150-320	Carbon dioxide	4,000 psig (276 bar)	200 psig (14 bar)	150 psig (10 bar)	3,000 psig (207 bar)	5/8"-18 RH internal	CGA 320
30-100-350	Hydrogen/methane	4,000 psig (276 bar)	150 psig (10 bar)	100 psig (7 bar)	3,000 psig (207 bar)	9/16"-18 LH "B"	CGA 350

*Propane, propylene or natural gas.

Note: Regulators are also sold in Twin Pack options. **HTP2** includes 30-100-540 and 30-15-510. **HTP5** includes 30-100-540 and 30-15-300.

Ordering Information

Outfits	Stock No.	Description	Qty.	Price
Toughcut™ Outfit Acetylene	MB55A-510	With CC509P cutting attachment, WH100 handle, MC12-1 cutting tip, MT603 heating tip, MW205 welding tip, 30-100-540 oxy regulator, 30-15-510 fuel regulator, 20 ft. (6.1 m) 3/16 in. (5 mm) "R"-grade hose, H698 regulator-mount check valves, single-flint lighter, and shade 5 safety glasses		
	MB55A-300	Same as MB55A-510, but with 30-15-300 fuel regulator		
Toughcut™ Outfit Propane	MB54A-510LP	With CC509P cutting attachment, WH100 handle, MC40-1 cutting tip, 30-100-540 oxy regulator, 30-50-510 fuel regulator, 20 ft. (6.1 m) 1/4 in. (6 mm) "T"-grade hose, H698 regulator-mount check valves, single-flint lighter, and shade 5 safety glasses		
Replacement Parts				
O-ring Replacements	MW15	For CC509P cutting attachment, MW welding tips and MT heating tips (25 per package)		
Torch Head Nut	G690-8	For CC509P cutting attachment		
Cutting Assembly	MC101	For CC509P cutting attachment. Seat assembly with o-rings, pin, packing, gasket and diaphragm		
Valve Assembly	LW17	For WH100. Valve assembly (pair)		
Accessories				
Flashback Arrestors	H743	Torch-mount flashback arrestors (pair)		
Check Valves	H697	Torch-mount reverse-flow check valves (pair)		
Twin-Hose	RL935	For acetylene. 20 ft. (6.1 m) "R"-grade twin-hose, 3/16 in. ID, "B" fittings		
	TRL1131	For propane/natural gas. 20 ft. (6.1 m) "R"-grade twin-hose, 1/4 in. ID, "B" fittings		
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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