

**SEMI-AUTOMATIC WATER-COOLED  
MIG GUNS**

<b>APPLICATIONS</b>	• General Manufacturing & Fabrication • Heavy Equipment • Oil & Gas • Rail • Ship
<b>PROCESSES</b>	• MIG (GMAW) Welding
<b>RATED OUTPUT</b>	• 400A • 450A • 600A
<b>WIRE SIZE</b>	• 0.035" - 3/32" (0.06mm-2.4mm)
<b>DUTY CYCLE</b>	• 100% with CO <sub>2</sub> Gas • 60% with Mixed Gases

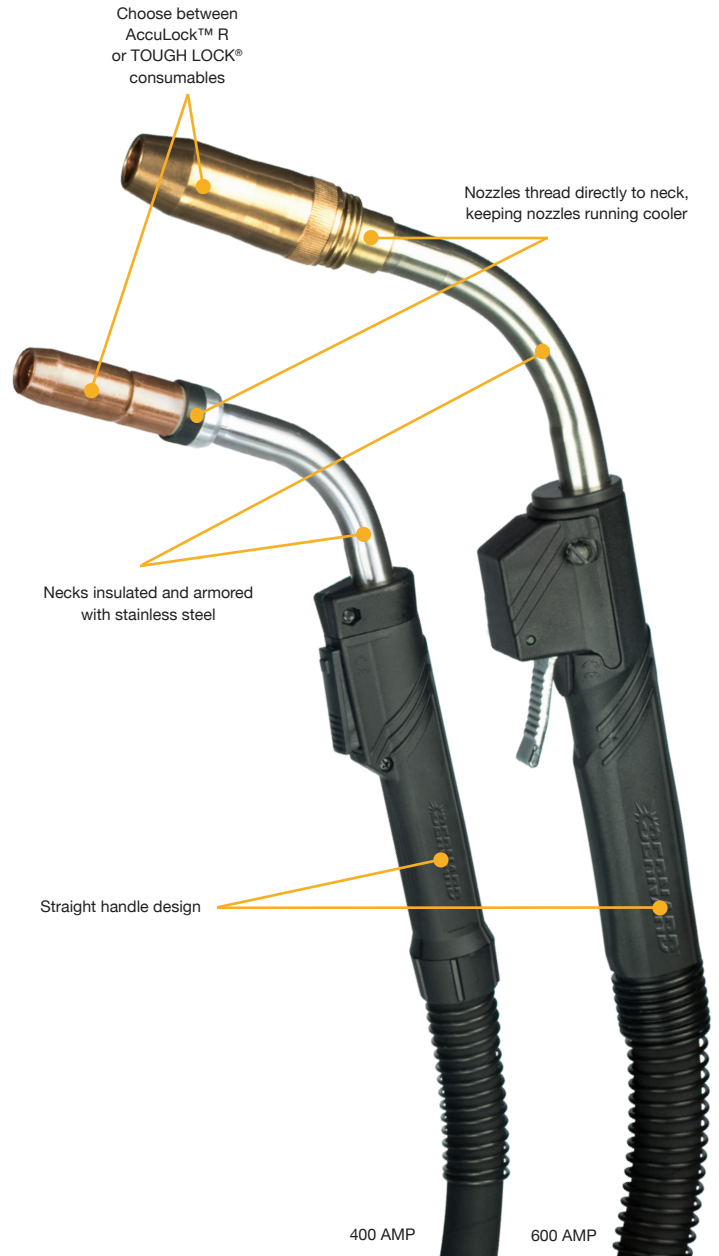
Bernard® T-Gun™ semi-automatic water-cooled MIG guns are engineered for superior performance in production environments requiring extremely high-heat applications.

The insulated neck, armored with stainless steel, better withstands abuse, and all neck joints are silver brazed and leak tested.

Available in 400 amp (compact series models), 450 and 600 amp models, all Bernard T-Gun semi-automatic water-cooled MIG guns are fully configurable and compatible with front-loading QUICK LOAD® liners, TOUGH LOCK® and AccuLock™ R consumables.

- Neck is insulated and armored with stainless steel to withstand abuse
- All neck water-line joints are silver brazed and 100% leak tested
- Custom neck length and bend configurations available
- Nozzles thread directly to neck for a cooler-running nozzle
- Water-cooled internally to diffuser/retaining head
- Custom gun lengths available
- Compatible with front-loading QUICK LOAD® liners, TOUGH LOCK® consumables and AccuLock™ R consumables

**EXPANDED CONTACT TIP OPTIONS**  
 NOW AVAILABLE WITH ACCULOCK™ CONSUMABLES



# HANDLE AND TRIGGER OPTIONS

## HANDLES AND TRIGGERS

### 400 amp Models

320	Handle, front
610	Handle, rear (with strain relief)
211-5	Trigger
211-5-8	Trigger housing, extended lever

### 450, 600 amp Models

610	Handle, front/rear	411-12	Trigger housing, dual schedule
411-1	Trigger	411-13	Trigger housing, lock-on D/S
411-2	Trigger housing	411-23	Trigger housing, extended lever
411-4	Trigger housing, lock-on	411-11	Trigger housing, two-position

## NECKS AND NECK INSULATORS

### 400 amp Models

445-45	Neck, 45 degree
445-60	Neck, 60 degree
402-7	Neck insulator, 400 amp

### 450 amp Models

455-45	Neck, 45 degree
455-60	Neck, 60 degree
455-180	Neck, 180 degree
452-3-25	Neck insulator

### 600 amp Models

595-45	Neck, 45 degree
595-60	Neck, 60 degree
595-180	Neck, 180 degree

## CONSUMABLES

### ACCULOCK™ R CONSUMABLES

SEE ACCULOCK™ R CONSUMABLES SPEC SHEET (SP-ALR) FOR MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPARATELY



#### Contact Tips

<b>T-A023CH</b>	0.023" (0.6 mm)	<b>T-A045CH</b>	0.045" (1.2 mm)	<b>T-A072CH</b>	0.070" (1.8 mm)
<b>T-A030CH</b>	0.030" (0.8 mm)	<b>T-A052CH</b>	0.052" (1.3 mm)	<b>T-A078CH</b>	5/64" (2.0 mm)
<b>T-A035CH</b>	0.035" (0.9 mm)	<b>T-A062CH</b>	1/16" (1.6 mm)	<b>T-A094CH</b>	3/32" (2.4 mm)
<b>T-A039CH</b>	0.039" (1.0 mm)				

#### Nozzles

<b>401-5-62</b>	5/8" bore, 1/4" recess, copper; 400A, 450A
<b>601-5-62</b>	5/8" bore, 1/4" recess, bronze; 600A
<b>601-6-75</b>	3/4" bore, 1/8" recess, bronze; 600A

#### Gas Diffusers

<b>D-ATTH</b>	Gas diffuser, thread-on; 400A, 450A
<b>D-ATSH</b>	Gas diffuser, slip-on; 400A, 450A
<b>D-ATTH-MW1</b>	Gas diffuser, thread-on; 600A

### TOUGH LOCK® HEAVY DUTY CONSUMABLES



#### Contact Tips

<b>403-20-30</b>	0.030" (0.8 mm)	<b>403-20-116</b>	0.045" (1.2 mm)
<b>403-20-35</b>	0.035" (0.9 mm)*	<b>403-20-564</b>	0.052" (1.3 mm)
<b>403-20-1.0</b>	0.039" (1.0 mm)	<b>403-20-332</b>	1/16" (1.6 mm)
<b>403-20-45</b>	0.045" (1.2 mm)*	<b>403-20-364</b>	3/64" (1.2 mm) aluminum
<b>403-20-52</b>	0.052" (1.4 mm)		

\*PART NUMBER ALSO APPLICABLE FOR ALUMINUM WIRE IN CORRESPONDING SIZE

#### Nozzles

<b>401-4-38</b>	3/8" bore, flush, copper; 400A, 450A
<b>401-6-50</b>	1/2" bore, 1/8" recess, copper; 400A, 450A
<b>401-4-50</b>	1/2" bore, 1/8" recess, copper; 400A, 450A
<b>401-5-62</b>	5/8" bore, 1/4" recess, copper; 400A, 450A
<b>401-42-50</b>	1/2" bore, 1/8" recess, brass; 400A, 450A
<b>601-5-62</b>	5/8" bore, 1/4" recess, bronze; 600A
<b>601-6-75</b>	3/4" bore, 1/8" recess, bronze; 600A

#### Retaining Heads

<b>404-30</b>	Retaining head; 400A, 450A
<b>404-38</b>	Retaining head; 600A

# CONSUMABLES (CONTINUED)

## QUICK LOAD® LINERS (FRONT-LOADING)

SEE QUICK LOAD® LINER AND AUTOLENGTH PINS SPEC SHEET (SP-QLL) FOR MORE INFORMATION

### 10-foot Gun Lengths

**415-35-10Q** for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire      **415-116-10Q** for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire

### 12-foot, 15-foot Gun Lengths

**415-35-15Q** for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire      **415-116-15Q** for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire

### Liner Retainers (required for initial installation)

**415-26** for 0.035" - 5/64" wire

## CONVENTIONAL LINERS FOR ALUMINUM WIRE (REAR-LOADING)

### 10-foot Gun Lengths

**415-45-02** Polymer liner for 0.035" - 3/64" wire      **415-116-22** Polymer liner for 3/64" - 1/16" wire

### 12-foot, 15-foot Gun Lengths

**415-45-03** Polymer liner for 0.035" - 3/64" wire      **415-116-2** Steel wrapped nylon liner for 0.045" - 1/16" wire  
**415-35-2** Steel wrapped nylon liner for 0.035" - 0.045" wire      **415-116-23** Polymer liner for 3/64" - 1/16" wire

### Jump Liners

**415-25** Bronze jump liner for polymer liner

# COMPONENTS

## CONDUITS

**657-15** Conduit, 15-ft service (cut to size for other lengths)

## WATER LINES

**658** Water line, red (out)      **656-15** Internal water line, 15-ft service  
**658-1** Water line, blue (in)

## POWER CABLES

**659-10** Power cable, 10-ft service (actual length: 9.5')      **659-15** Power cable, 15-ft service (actual length: 14.5')  
**659-12** Power cable, 12-ft service (actual length: 11.5')

## REPLACEMENT CABLE BUNDLES

**661-10** Replacement cable bundle, 10'      **661-15** Replacement cable bundle, 15'  
**661-12** Replacement cable bundle, 12'

## CONTROL WIRE ASSEMBLIES

**662-10** Control wire assembly, 10' length      **662-210** Control wire assembly, dual schedule, 10'; 450, 600 amp  
**662-15** Control wire assembly, 12' and 15' length      **662-212** Control wire assembly, dual schedule, 12'; 450, 600 amp  
**662-215** Control wire assembly, dual schedule, 15'; 450, 600 amp

## POWER PINS

**214** Power pin, Tweco® #4      **214-7** Power pin, Lincoln® (short); 450, 600 amp  
**214-2** Power pin, Lincoln®      **214-6-9** Power pin, Miller® (aluminum); 400 amp  
**214-6-116** Power pin, Miller®  
**214-12** Power pin, Tweco® #5

# ACCESSORIES

## WATER COOLER HOOK-UP KITS

**WC2HK-1** Water Cooler Hookup Kit includes two 15' hoses and fittings to connect our gun to a water cooler.

**WC2HK-2** Water Cooler Hookup Kit includes two 30' hoses and fittings to connect our gun to a water cooler.

**WC2HK-3** Water Cooler Hookup Kit includes two 3' hoses and fittings to connect our gun to a water cooler.

## ORDERING INFORMATION

Switch Options	Power Pin	Amperage	Cable Length	Wire Size	Nozzle	Neck	Liner/Consumables
	<b>M</b>	<b>62</b>	<b>10</b>	<b>-45</b>	<b>-5</b>	<b>-545</b>	<b>AR</b>
Standard*	Tweco® #4**	42 400 amp	<u>400 AMP</u>	-35 0.035"	<u>400, 450 AMP</u>	<u>400, 450 AMP</u>	Conventional liner^^
<b>D</b> Dual schedule	<b>M</b> Miller®	45 450 amp	10 10'	-1.0 1.0 mm	-2 401-4-38^	-460 60 degree	<b>Q</b> QUICK LOAD® liner
<b>2D</b> 2-position dual schedule	<b>LN</b> Lincoln®	62 600 amp	15 15'	-45 0.045"	-3 401-6-50^	-445 45 degree	-9 for Aluminum wire
	<b>TW</b> Tweco® #5		<u>450, 600 AMP</u>	-364 3/64"^^	-4 401-4-50^	<u>600 AMP</u>	<b>AR</b> AccuLock™ R
	<b>E</b> Euro		08 8'	-52 0.052"	-5 401-5-62	-560 60 degree	consumables
			10 10'	-116 1/16"	-7 401-42-50^	-545 45 degree	
			12 12'	-564 5/64"	<u>600 AMP</u>		
			15 15'	-332 3/32"	-5 601-5-62		
					-6 601-6-75		

\*LEAVE THE "SWITCH OPTIONS" OPTION BLANK IF SELECTING STANDARD.

\*\*LEAVE THE "POWER PIN" OPTION BLANK IF SELECTING TWECO® #4.

^NOT COMPATIBLE WITH ACCULOCK™ R CONSUMABLES OPTION.

^^LEAVE THE "LINER/CONSUMABLES" OPTION BLANK IF SELECTING CONVENTIONAL LINER.

D AND 2D OPTION NOT COMPATIBLE WITH 42 SERIES (400 AMP GUN).

BRAND AND PRODUCT NAMES SHOWN ABOVE ARE TRADEMARKS OF THEIR RESPECTIVE OWNERS.

SUBJECT TO CHANGE – THE INFORMATION PRESENTED IN THIS SPEC SHEET IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AT THE TIME OF PRINTING.

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