

# Bernard® T-Gun™ MIG Guns

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**Semi-Automatic Water-Cooled  
MIG Welding Guns**



Quick Specs	Applications	Processes	Rated Output	Wire Size	Duty Cycle
	Heavy Equipment Shipbuilding & Repair Pipeline Fabrication	MIG (GMAW) Welding	400A 450A 600A	0.023" - 3/32" (0.06 mm - 2.4 mm)	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 **new** 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 **new** AccuLock™ R consumables



**Now available with  
new AccuLock  
consumables**



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# Handle and Trigger Options

## Handles and Triggers

### 400 amp Models

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

### 450, 600 amp Models

Part Number	Description
610	Handle, front/rear
411-1	Trigger
411-2	Trigger housing
411-4	Trigger housing, lock-on

Part Number	Description
411-12	Trigger housing, dual schedule
411-13	Trigger housing, lock-on D/S
411-23	Trigger housing, extended lever
411-11	Trigger housing, two-position

## Necks and Neck Insulators

### 400 amp Models

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

### 450 amp Models

Part Number	Description
455-45	Neck, 45 degree
455-60	Neck, 60 degree
455-180	Neck, 180 degree
452-3	Neck insulator

### 600 amp Models

Part Number	Description
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

T-A023CH	0.023" (0.6 mm)
T-A030CH	0.030" (0.8 mm)
T-A035CH	0.035" (0.9 mm)
T-A039CH	0.039" (1.0 mm)

T-A045CH	0.045" (1.2 mm)
T-A052CH	0.052" (1.4 mm)
T-A062CH	1/16" (1.6 mm)

T-A072CH	0.070" (1.8 mm)
T-A078CH	5/64" (2.0 mm)
T-A094CH	3/32" (2.4 mm)

#### Nozzles

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

#### Gas Diffusers

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

## TOUGH LOCK® Heavy Duty Consumables



#### Contact Tips

403-20-30	0.030" (0.8 mm)
403-20-35	0.035" (0.9 mm)*
403-20-1.0	0.039" (1.0 mm)
403-20-45	0.045" (1.2 mm)*
403-20-52	0.052" (1.4 mm)

403-20-116	1/16" (1.6 mm)*
403-20-564	5/64" (2.0 mm)
403-20-332	3/32" (2.4 mm)
403-20-364	3/64" (1.2 mm) aluminum

\*Part number also applicable for aluminum wire in corresponding size

#### Nozzles

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

#### Retaining Heads

404-30	Retaining head; 400A, 450A
404-38	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

**415-23-15Q** for 0.023" (0.6 mm) wire **415-116-15Q** for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire  
**415-30-15Q** for 0.030" (0.8 mm) wire **415-564-15Q** for 5/64" (2.0 mm) wire  
**415-35-15Q** for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire **415-332-15Q** for 3/32" (2.4 mm) wire

#### Liner Retainers (required for initial installation)

**415-26** for 0.035" - 5/64" wire  
**415-24** for 0.078" - 3/32" 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 ft) **659-15** Power cable, 15-ft service (actual length: 14.5 ft)  
**659-12** Power cable, 12-ft service (actual length: 11.5 ft)

### Replacement Cable Bundles

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

### Control Wire Assemblies

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

### Power Pins

**214** Power pin, Tweco® #4 **214-13** Power pin, Panasonic®  
**214-2** Power pin, Lincoln® **214-7** Power pin, Lincoln (short); 450, 600 amp  
**214-6-116** Power pin, Miller® **214-6-9** Power pin, Miller (aluminum); 400 amp  
**214-12** Power pin, Tweco #5

# 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>
None*	Tweco® #4**	42 400	<u>400 amp</u>	-23 0.023" <sup>^</sup>	<u>400, 450 amp</u>	<u>400, 450 amp</u>	Conventional liner <sup>^^</sup>
<b>D</b> Dual schedule	<b>B</b> Bernard®	amp	<b>10</b> 10 ft	<b>-30</b> 0.030"	<b>-2</b> 401-4-38 <sup>^</sup>	<b>-460</b> 60 degree	<b>Q</b> QUICK LOAD® liner
<b>2D</b> 2-position dual schedule	<b>M</b> Miller®	<b>45</b> 450 amp	<b>12</b> 12 ft	<b>-35</b> 0.035"	<b>-3</b> 401-6-50 <sup>^</sup>	<b>-445</b> 45 degree	<b>-L</b> QUICK LOAD liner
	<b>LN</b> Lincoln®	amp	<b>15</b> 15 ft	<b>-1.0</b> 1.0 mm	<b>-4</b> 401-4-50 <sup>^</sup>	<b>-445</b> 45 degree	<b>-L</b> QUICK LOAD liner
	<b>TW</b> Tweco #5	<b>62</b> 600 amp	<u>450, 600 amp</u>	<b>-45</b> 0.045"	<b>-5</b> 401-5-62	<u>600 amp</u>	AutoLength™ system
	<b>E</b> Euro	amp	<b>06</b> 6 ft	<b>-364</b> 3/64" <sup>^</sup>	<b>-7</b> 401-42-50 <sup>^</sup>	<b>-560</b> 60 degree	<b>-9</b> for aluminum
	<b>PA</b> Panasonic®		<b>08</b> 8 ft	<b>-52</b> 0.052"	<u>600 amp</u>	<b>-545</b> 45 degree	<b>AR</b> AccuLock™ R consumables
	<b>LT</b> L-Tec®		<b>10</b> 10 ft	<b>-116</b> 1/16"	<b>-5</b> 601-5-62	<b>-545</b> 45 degree	
	<b>OX</b> OXO™		<b>12</b> 12 ft	<b>-564</b> 5/64"	<b>-6</b> 601-6-75	<b>-522</b> 22 degree	
			<b>15</b> 15 ft	<b>-332</b> 3/32"			

\*Leave the "Switch Options" option blank if selecting None.

\*\*Leave the "Power Pin" option blank if selecting Tweco® #4.

<sup>^</sup>Not compatible with AccuLock™ R consumables option.

<sup>^^</sup>Leave the "Liner/Consumables" option blank if selecting Conventional liner.

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Subject to Change – The information presented in this spec sheet is accurate to the best of our knowledge at the time of printing. Please visit [Tregaskiss.com](http://Tregaskiss.com) for the most up-to-date information.

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