

# BERNARD BTB AIR-COOLED MIG GUNS

## WEBSITE QUICKLINKS:

BernardWelds.com/BTB  
BernardWelds.com/ConfigureMyGun



## OPTIMIZE FOR PRODUCTIVITY. STANDARDIZE FOR SIMPLICITY.

According to the American Welding Society (AWS), there will be a shortage of 400,000 welders by 2024.

In the face of this challenge, it's critical to **keep your skilled welders healthy while also increasing their productivity.** The configurable BTB MIG Gun line helps you do exactly that. Choose from a variety of necks, handles and trigger styles to **optimize welder ergonomics** and **weld access.** Then standardize with a single line of consumables to **simplify maintenance** and **contain costs.**

You can count on Bernard BTB MIG Guns to deliver industrial-grade **performance and reliability** in the most demanding and abusive environments.

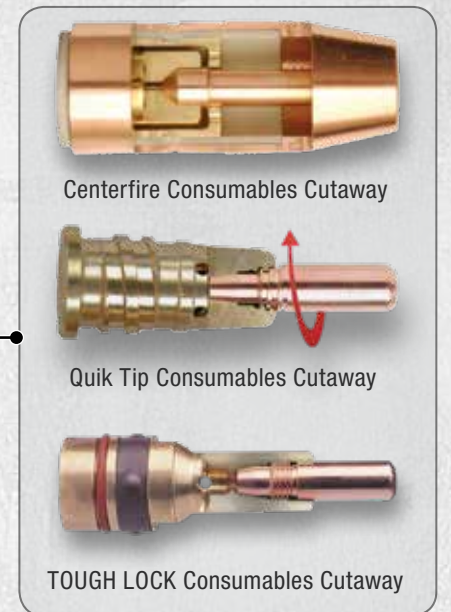


### FIXED OR ROTATABLE NECKS

- Wide variety of angle and length options
- Aluminum armored necks withstand abuse and offer outstanding heat dissipation
- No tools required to adjust rotatable necks
- See page 7 for more information

### HIGH PERFORMANCE CONSUMABLES

- Available with Centerfire™, Quik Tip™ or TOUGH LOCK™ Consumables
- See pages 16-20 for more information

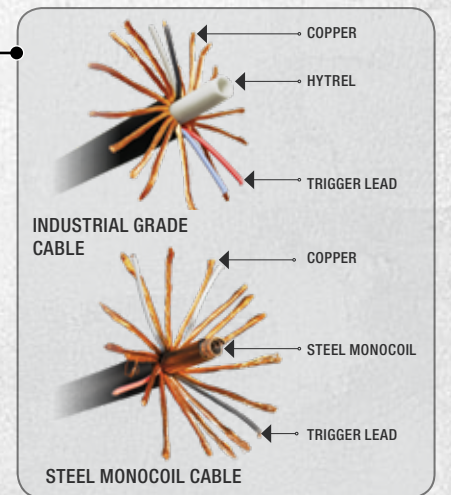


### MULTIPLE HANDLE AND TRIGGER OPTIONS

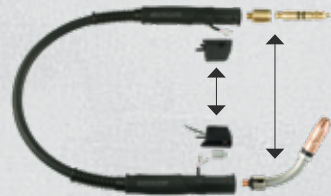
- Choose between **seven different curved and straight handle styles**
- New C Series Straight Handle features comfortable overmolding and ergonomic rear swivel at no extra cost!
- Wide selection of handles and easy-to-change trigger options allow guns to be matched to user preference or welding application
- Triggers are designed and built to last more than one million cycles
- See page 6 for more information

### UNICABLE DESIGN

- Cone and cone nut threaded cable connections for optimal electrical conductivity
- Internal gas hose resists kinking for consistent gas flow
- Choose Industrial Grade or Steel Monocoil cable (upgrade for extra pinch/kink resistance)



### DOUBLE-LIFE MIG GUN SYSTEM\*



The Double-Life MIG Gun System features identical handles and internal connections on the front and back. Once the front end of the cable becomes worn, simply "flip-flop" the switch and neck from the front of the gun with the power pin on the back and get twice the life out of your MIG gun!

\*Available for BTB MIG Guns with T and C Series Straight Handles. Not available with Bernard™, OXO™ or Euro power pins.

## LINER OPTIONS

- The Universal Conventional Liner is compatible with all legacy Q-Gun™, S-Gun™, T-Gun™ Air-Cooled MIG Guns and all BTB MIG Guns, which allows you to simplify and reduce inventory

See page 21 for more information

- Save time by loading your liner from the front of your gun with the innovative QUICK LOAD™ Liner

See page 22 for more information

- The QUICK LOAD Liner AutoLength™ System is a revolutionary system designed to minimize downtime, wire feeding and quality issues commonly associated with short liner length

See page 23 for more information

## ACCESSORIES

- Neck coupler
- Neck guard and grip
- Heat shield
- Gun hanger
- Flex necks

## WARRANTY

- **One year manufacturer's warranty**
- Lifetime warranty on rear straight strain relief and on all T Series and C Series Straight Handles and trigger switches

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## CHOOSE YOUR WEAPON — BTB MIG GUN CONFIGURATOR

Welders and welding applications differ — a MIG gun optimized for weld access and ergonomics can help increase productivity. This chart shows the many options available to help you optimize your MIG gun:



### 1 AMPERAGE

<b>Q20</b>	200 amp max. wire size 1/16" (1.6 mm)
<b>Q30</b>	300 amp max. wire size 5/64" (2.0 mm)
<b>Q40</b>	400 amp max. wire size 5/64" (2.0 mm)
<b>Q50</b>	500 amp max. wire size 3/32" (2.4 mm)
<b>Q60</b>	600 amp max. wire size 1/8" (3.2 mm)
<b>S30</b>	300 amp max. wire size 5/64" (2.0 mm)
<b>S40</b>	400 amp max. wire size 5/64" (2.0 mm)
<b>S50</b>	500 amp max. wire size 3/32" (2.4 mm)
<b>S60</b>	600 amp max. wire size 1/8" (3.2 mm)

### 2 CABLE LENGTH

<b>10</b>	10 ft (3.05 m)
<b>15</b>	15 ft (4.57 m)
<b>20</b>	20 ft (6.10 m)
<b>25</b>	25 ft (7.62 m)

### 4 NECK

<b>A</b>	Rotatable, Short	30°	<b>O</b>	Fixed, Short	45°
<b>B</b>	Rotatable, Short	45°	<b>P</b>	Fixed, Short	60°
<b>C</b>	Rotatable, Short	60°	<b>W</b>	Fixed, Short	80°
<b>J</b>	Rotatable, Short	80°	<b>Q</b>	Fixed, Medium	30°
<b>D</b>	Rotatable, Medium	30°	<b>R</b>	Fixed, Medium	45°
<b>E</b>	Rotatable, Medium	45°	<b>S</b>	Fixed, Medium	60°
<b>F</b>	Rotatable, Medium	60°	<b>X</b>	Fixed, Medium	80°
<b>K</b>	Rotatable, Medium	80°	<b>T</b>	Fixed, Long	30°
<b>G</b>	Rotatable, Long	30°	<b>U</b>	Fixed, Long	45°
<b>H</b>	Rotatable, Long	45°	<b>V</b>	Fixed, Long	60°
<b>I</b>	Rotatable, Long	60°	<b>Y</b>	Fixed, Longest	45°
<b>N</b>	Fixed, Short	30°	<b>Z</b>	Fixed, Longest	60°

See page 7 for part numbering and compatibility.

### 5 CONTACT TIP

<b>8</b>	Centerfire™ 5/16" O.D. (7.94 mm)
<b>5</b>	Quik Tip™ 5/16" O.D. (7.94 mm)
<b>2</b>	TOUGH LOCK™ SD 1/4" O.D. (6.35 mm)
<b>3</b>	TOUGH LOCK™ HD 5/16" O.D. (7.94 mm)

### 6 WIRE SIZE

<b>A</b>	0.023" (0.6 mm)
<b>B</b>	0.030" (0.8 mm)
<b>C</b>	0.035" (0.9 mm)
<b>D</b>	0.039" (1.0 mm)
<b>E</b>	0.045" (1.2 mm)
<b>H</b>	0.052" (1.4 mm)
<b>I</b>	1/16" (1.6 mm)
<b>K</b>	5/64" (2.0 mm)
<b>L</b>	3/32" (2.4 mm)
<b>M</b>	7/64" (2.8 mm)
<b>N</b>	1/8" (3.2 mm)

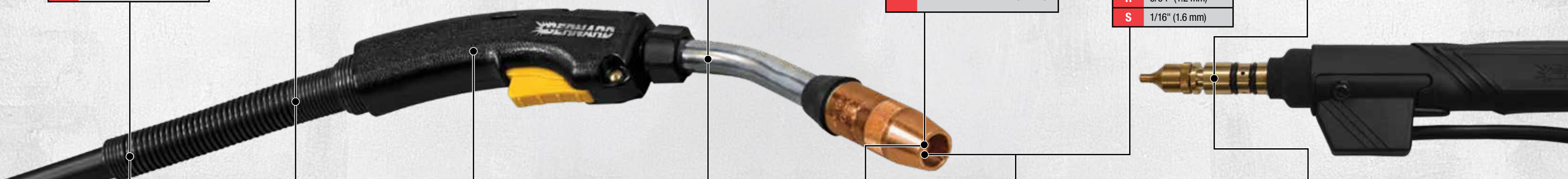
#### ALUMINUM WIRE

<b>Q</b>	0.035" (0.9 mm)
<b>R</b>	3/64" (1.2 mm)
<b>S</b>	1/16" (1.6 mm)

### 7 POWER PIN

<b>B</b>	Bernard™
<b>E</b>	Euro
<b>L</b>	Lincoln®
<b>M</b>	Miller®
<b>O</b>	OXO™
<b>S</b>	Tweco® #4 (Lincoln Lead)
<b>R</b>	Tweco #4 (Miller Lead)
<b>T</b>	Tweco #4 (Standard Lead)
<b>U</b>	Tweco #4 (NAS Plug)
<b>W</b>	Tweco #5 (Standard Lead)
<b>X</b>	Tweco #5 (Miller Lead)

See page 25 for more information.



**Q40**

**15**

**A**

**E**

**8**

**D**

**M**

**L**

### 3 HANDLE AND TRIGGER

<b>B Series Small Curved Handle</b>	Q20, Q30	<b>A</b> Standard Trigger <b>B</b> Locking Trigger <b>C</b> Dual Pull Trigger	<b>T Series Small Straight Handle</b>	Q20, Q30	<b>S</b> Standard Trigger	<b>C Series Straight Handle</b>	Q20, Q30, Q40, Q50, S30, S40	<b>V</b> Standard Trigger <b>X</b> Dual Pull Trigger <b>Y</b> Dual Schedule Switch <b>J</b> Insight™ Limited (available only with Miller® power pin)
<b>B Series Curved Handle</b>	Q40	<b>A</b> Standard Trigger <b>B</b> Locking Trigger <b>C</b> Dual Pull Trigger <b>D</b> Dual Schedule Switch <b>E</b> Locking Dual Schedule	<b>T Series Straight Handle</b>	Q30, Q40, Q50, Q60, S30, S40	<b>M</b> Standard Trigger <b>N</b> Locking Trigger <b>P</b> Dual Pull Trigger <b>Q</b> Dual Schedule Switch <b>R</b> Locking Dual Schedule			
<b>O Series Curved Handle</b>	Q40, Q50, Q60, S40, S50, S60	<b>G</b> Standard Trigger <b>H</b> Locking Trigger <b>I</b> Dual Pull Trigger <b>K</b> Dual Schedule Switch <b>L</b> Locking Dual Schedule	<b>O Series Small Curved Handle</b>	Q20, Q30, Q40, S30, S40	<b>T</b> Standard Trigger <b>U</b> Locking Trigger			See page 6 for more information.

The diffusers and nozzles in the chart below come factory installed based on gun amperage:

AMP	CENTERFIRE		QUIK TIP		TOUGH LOCK		
	Diffuser	Nozzle	Diffuser	Nozzle	Diffuser (SD)	Diffuser (HD)	Nozzle
200	DS-1	NS-1218B	D118Q	N1C58Q	404-18	N/A	401-4-62
300	DS-1	NS-5818C	D118Q	N1C58Q	404-18	404-26	401-6-62
300 (T Series Small Straight Handle Only)	DS-1	NS-5818C	D118Q	N1C58Q	404-18	404-26	401-4-62
400	D-1	N-5818C	D118Q	N1C58Q	404-18	404-26	401-6-62
500	D-1	N-5814C	D114Q	N1C34HQ	N/A	404-26	401-5-62
600	D-1	N-3414C	D114Q	N1C34HQ	N/A	404-26	401-5-75

\*Some limitations exist. Please consult our online configurator or your Customer Service Representative to ensure that the part number configured using these pages is accurate prior to placing an order.

### 8 LINER

<b>C</b>	Universal Conventional Liner
<b>Q</b>	QUICK LOAD™ Liner*
<b>L</b>	QUICK LOAD Liner AutoLength™ System**

\*Available for wire sizes 0.023" to 3/32"

\*\*Available for wire sizes 0.030" to 3/32"