

Bernard™ BTB MIG Guns

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

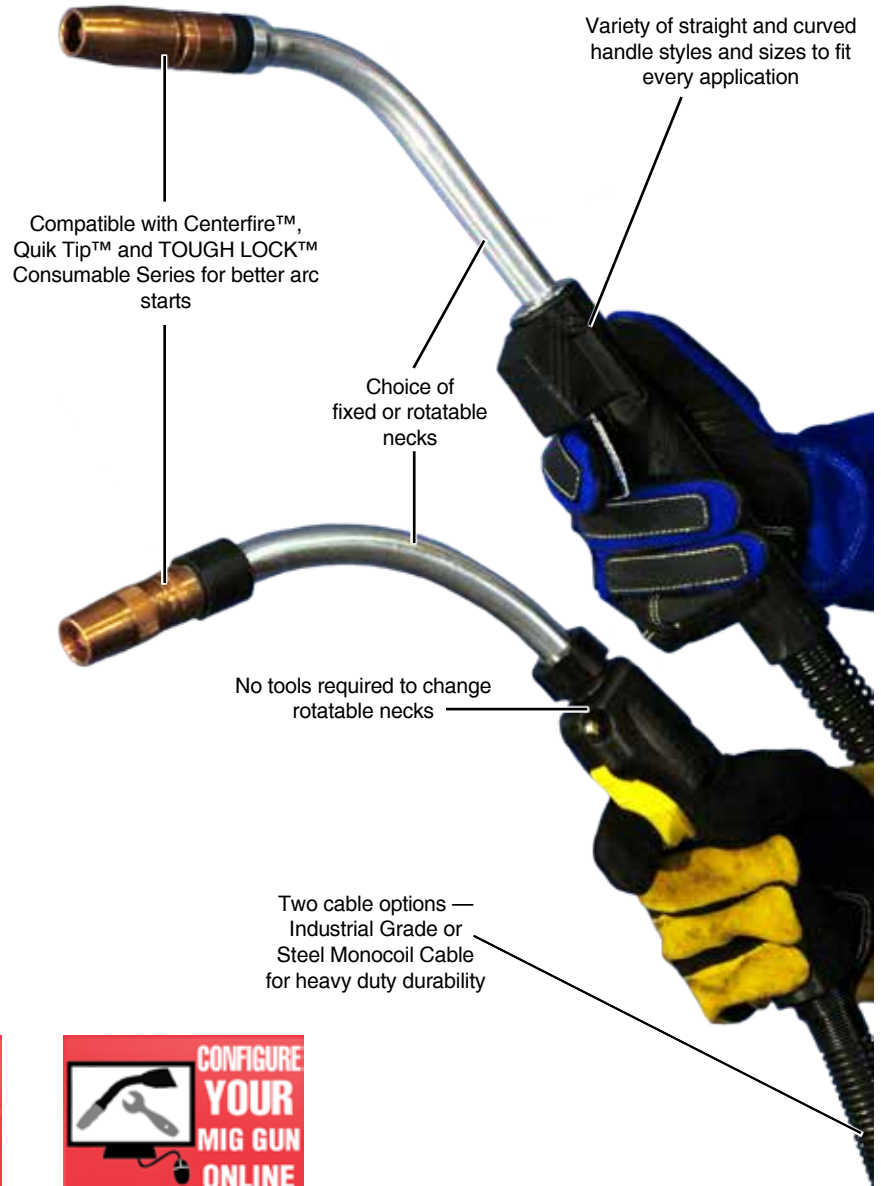


Quick Specs	Applications	Processes	Rated Output	Duty Cycle
	Heavy Equipment Shipbuilding Pipeline Fabrication	MIG (GMAW) Welding	200A 300A 400A 500A 600A	100% CO ₂ Gas 60% with Mixed Gases

Bernard™ BTB MIG Guns combine the best features of our legacy Q-Gun™, S-Gun™ and T-Gun™ MIG Gun lines to bring you our most flexible and rugged MIG Gun offering.

BTB MIG Guns are designed for maximum configuration options and the industrial-grade performance that our customers have come to depend on.

- Aluminum armored necks, available as either fixed or rotatable, withstand abuse and offer outstanding heat dissipation
- Compatible with your choice of Centerfire™, Quik Tip™ or TOUGH LOCK™ Consumables on any front handle style
- NEW! Universal Conventional Liners or QUICK LOAD™ Liners
- Available in 200, 300, 400, 500 and 600 amp models
- Choose your desired cable length: 8, 10, 12, 15, 20 or 25 feet.
- Available wire size ranges from 0.023" (0.6 mm) to 1/8" (3.2 mm)
- Straight rear strain relief with Lifetime Warranty now standard



One year manufacturer's warranty on all configured guns



Select the best handle style and size to fit your EXACT needs



Choose from an expanded list of the best features of our top MIG gun lines



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Cable Options

(available through configurator)

Industrial Grade Cable

Details

The heavy duty Industrial Cable features cotton wrapped copper and durable trigger leads surrounding a hytel inner tube. The industrial grade cable is compatible with all amperages, cable lengths and all handle styles and sizes.

Amperages

200 Amp
300 Amp
400 Amp
500 Amp
600 Amp

Cable Lengths

8 ft (2.44 m)
10 ft (3.05 m)
12 ft (3.66 m)
15 ft (4.57 m)
20 ft (6.10 m)
25 ft (7.62 m)

Handle Styles

B Series
Small Curved Handle
Large Curved Handle
O Series
Small Curved Handle
Large Curved Handle
T Series
Small Straight Handle
Large Straight Handle

Steel Monocoil Cable

Details

The Steel Monocoil Cable offers extra structural integrity through the steel monocoil inner tube which gives it superior pinch resistance and helps to ensure good gas flow and wire feedability. The steel monocoil cable is ideal for use in welding applications that require longer gun cables that may be frequently looped or stretched around corners to the point of pinching.

Amperages

300 Amp
400 Amp
500 Amp
600 Amp

Cable Lengths



8 ft (2.44 m)
10 ft (3.05 m)
12 ft (3.66 m)
15 ft (4.57 m)
20 ft (6.10 m)
25 ft (7.62 m)

Handle Styles

O Series
Small Curved Handle (300A & 400A only)
Large Curved Handle
T Series
Large Straight Handle (300A & 400A only)

Handle & Trigger Options

(available through configurator)

Features	B Series Small Curved handle	B Series Large Curved handle	O Series Small Curved handle	O Series Large Curved handle	T Series Small Straight handle	T Series Large Straight handle
						
Amperage	200, 300	400	200, 300, 400	400, 500, 600	300	300, 400, 500, 600
Style	Curved	Curved	Curved	Curved	Straight	Straight
Neck	Fixed or Rotatable	Fixed or Rotatable	Fixed or Rotatable	Fixed or Rotatable	Fixed	Fixed or Rotatable
Trigger	<ul style="list-style-type: none"> Standard Locking Dual Pull 	<ul style="list-style-type: none"> Standard Locking Dual Pull Dual Schedule Switch Dual Schedule Switch with Locking 	<ul style="list-style-type: none"> Standard Locking 	<ul style="list-style-type: none"> Standard Locking Dual Pull Dual Schedule Switch Dual Schedule Switch with Locking 	<ul style="list-style-type: none"> Standard 	<ul style="list-style-type: none"> Standard Locking Dual Pull Dual Schedule Switch Dual Schedule Switch with Locking
Cable	Industrial Grade	Industrial Grade	Industrial Grade or Steel Monocoil for 300, 400 amp only	Industrial Grade or Steel Monocoil	Industrial Grade	Industrial Grade or Steel Monocoil for 300, 400 amp only

Neck Options

(available through configurator)

Fixed Necks

T Series Small Straight Handles

205-45	45° Short
205-60	60° Short
315-45	45° Medium
315-60	60° Medium
405-45NB	45° Long
405-60NB	60° Long

T Series Large Straight Handles

305-45	45° Short
305-60	60° Short
405-45	45° Medium
405-60	60° Medium
505-45	45° Long
505-60	60° Long

405-45LL	45° Longest
405-60LL	60° Longest

B Series and O Series Curved Handles

QT2-30	30° Short
QT2-45	45° Short
QT2-60	60° Short
QT2-80	80° Short

QT3-30	30° Medium
QT3-45	45° Medium
QT3-60	60° Medium
QT3-80	80° Medium

QT5-30	30° Long
QT5-45	45° Long
QT5-60	60° Long

Rotatable Necks

B Series, O Series Curved Handles and T Series Large Straight Handles

QT2-30	30° Short
QT2-45	45° Short
QT2-60	60° Short
QT2-80	80° Short

QT3-30	30° Medium
QT3-45	45° Medium
QT3-60	60° Medium
QT3-80	80° Medium

QT5-30	30° Long
QT5-45	45° Long
QT5-60	60° Long

T Series Small Handles are not compatible with rotatable necks

Neck Insulators

Users should be aware that neck insulator replacement for Bernard BTB MIG Guns will be based on several variables including:

- Gun Amperage
- Neck & Handle Combination
- Consumable Series

Use the chart on the right to select the appropriate replacement neck insulator.

Neck & Handle	Consumables	200A	300A	400A	500A	600A
		Insulator Part Number				
Fixed Necks for T Series Straight handles	Centerfire™	4523R			4423R	
	Quik Tip™			4423R		
	TOUGH LOCK™			402-11		
Rotatable Necks for O, B, T Series handles	Centerfire	4523R			4423R	
	Quik Tip			4423R		
	TOUGH LOCK			10012		
Fixed Necks for O and B Series handles	Centerfire	4523R			4423R	
	Quik Tip			4423R		
	TOUGH LOCK			10012		

Consumables

(available through configurator)

Centerfire™ Consumable Series

Contact Tips

T-023	0.023" (0.6 mm)
T-030	0.030" (0.8 mm)
T-035	0.035" (0.9 mm)*
T-039	0.039" (1.0 mm)
T-045	0.045" (1.2 mm)*
T-052	0.052" (1.4 mm)

T-062	1/16" (1.6 mm)*
T-078	5/64" (2.0 mm)
T-094	3/32" (2.4 mm)
T-109	7/64" (2.8 mm)
T-125	1/8" (3.2 mm)

*Part number also applicable for aluminum wire in corresponding size

Diffusers

DS-1	Small, Brass
D-1	Large, Brass

Nozzles

NS-1218B	1/2" Bore, 1/8" Recess, Brass
NS-5818C	5/8" Bore, 1/8" Recess, Copper
N-5818C	5/8" Bore, 1/8" Recess, Copper
N-5814C	5/8" Bore, 1/4" Recess, Copper
N-3414C	3/4" Bore, 1/4" Recess, Copper

See Centerfire™ Consumables Spec Sheet (SP-CF) for more information and additional options that can be ordered separately

Consumables (continued)

Quik Tip™ Consumable Series

Contact Tips

T1023	0.023" (0.6 mm)	T1116	1/16" (1.6 mm)*
T1030	0.030" (0.8 mm)	T1564	5/64" (2.0 mm)
T1035	0.035" (0.9 mm)*	T1332	3/32" (2.4 mm)
T1039	0.039" (1.0 mm)	T1764	7/64" (2.8 mm)
T1045	0.045" (1.2 mm)	T1118	1/8" (3.2 mm)
T1052	0.052" (1.4 mm)	T1364	3/64" (1.2 mm) Aluminum

*Part number also applicable for aluminum wire in corresponding size

Diffusers

D118Q	1/8" Recess
D114Q	1/4" Recess

Nozzles

N1C58Q	5/8" Bore, Plated Copper
N1C34HQ	3/4" Bore, Plated Copper, HD

See Quik Tip™ Consumables Spec Sheet (SP-QT) for more information and additional options that can be ordered separately

TOUGH LOCK™ Standard Duty Consumable Series

Contact Tips

403-14-23	0.023" (0.6 mm)
403-14-30	0.030" (0.8 mm)
403-14-35	0.035" (0.9 mm)*
403-14-1.0	0.039" (1.0 mm)
403-14-45	0.045" (1.2 mm)*

*Part number also applicable for aluminum wire in corresponding size

Nozzles

401-6-62	5/8" Bore, 1/8" Recess, Copper
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Retaining Head

404-18	Brass
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TOUGH LOCK™ Heavy Duty Consumable Series

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

Retaining Head

404-26	Dual Taper, Brass
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Nozzles

401-6-62	5/8" Bore, 1/8" Recess, Copper
401-5-62	5/8" Bore, 1/4" Recess, Copper
401-5-75	3/4" Bore, 1/4" Recess, Copper

See TOUGH LOCK™ Consumables Spec Sheet (SP-TLC) for more information and additional options

QUICK LOAD™ Liners

10' (3.05 m) Gun Lengths

415-35-10Q	for 0.035" - 0.045" wire
415-116-10Q	for 0.045" - 1/16" wire

15' (4.57 m) Gun Lengths

415-23-15Q	for 0.023" (0.6 mm) wire
415-30-15Q	for 0.030" (0.8 mm) wire
415-35-15Q	for 0.035" (0.9 mm) wire
	for 0.039" (1.0 mm) wire
	for 0.045" (1.2 mm) wire
415-116-15Q	for 0.052" (1.4 mm) wire
	for 1/16" (1.6 mm) wire
415-564-15Q	for 5/64" (2.0 mm) wire
415-332-15Q	for 3/32" (2.4 mm) wire

25' (7.62 m) Gun Lengths

415-23-25Q	for 0.023" (0.6 mm) wire
415-30-25Q	for 0.030" (0.8 mm) wire
415-35-25Q	for 0.035" (0.9 mm) wire
	for 0.039" (1.0 mm) wire
	for 0.045" (1.2 mm) wire
415-116-25Q	for 0.052" (1.4 mm) wire
	for 1/16" (1.6 mm) wire
415-564-25Q	for 5/64" (2.0 mm) wire
415-332-25Q	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

See QUICK LOAD™ Liner Spec Sheet (SP-QLL) for more information

Consumables (continued)

Universal Conventional Liners

10' (3.05 m) Gun Lengths

L3A-10	for 0.035" - 0.045" wire
L4A-10	for 0.045" - 1/16" wire

15' (4.57 m) Gun Lengths

L1A-15	for 0.023" - 0.030" wire
L2A-15	for 0.030" - 0.035" wire
L3A-15	for 0.035" - 0.045" wire*
L4A-15	for 0.045" - 1/16" wire**
L6A-15	for 5/64" wire
L7A-15	for 3/32" wire
L8A-15	for 7/64" - 1/8" wire

25' (7.62 m) Gun Lengths

L1A-25	for 0.023" - 0.030" wire
L2A-25	for 0.030" - 0.035" wire
L3A-25	for 0.035" - 0.045" wire*
L4A-25	for 0.045" - 1/16" wire**
L6A-25	for 5/64" wire
L7A-25	for 3/32" wire
L8A-25	for 7/64" - 1/8" wire

*Standard Liner for 0.035" & 0.045" Guns

**Standard Liner for 1/16" Guns

See Universal Conventional Liner Spec Sheet (SP-L) for more information

Conventional Liners for Aluminum Wire

10' (3.05 m) Gun Lengths

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

15' (4.57 m) Gun Lengths

415-45-03	for 0.035" - 3/64" wire Polymer Liner
415-35-2	for 0.035" - 0.045" wire Steel Wrapped Nylon
415-116-2	for 0.045" - 1/16" wire Steel Wrapped Nylon
415-116-23	for 3/64" - 1/16" wire Polymer Liner

25' (7.62 m) Gun Lengths

415-45-04	for 0.035" - 0.045" wire Steel Wrapped Nylon
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Power Pins

(available through configurator)

Bernard™

1880259B	Quick Disconnect Kit
2200140	Power Pin (Includes O-Rings)

Euro

1880259E	Power Pin Kit
5060T	Euro Block Assembly
4816	Adapter Nut

Lincoln®

1880259L	Power Pin Kit
214-2-1	Power Pin

AutoLength Pin

425-820E	for 0.030"-0.045"
428-920E	for 0.052"-3/32"

AutoLength Pin

214-87	for 0.030"-0.045"
214-97	for 0.052"-3/32"

Miller®

1880259M	Power Pin Kit
2200137	Power Pin (Includes O-Rings)

OXO™

1880259X	Power Pin Kit
427-12	Power Pin

AutoLength Pin

214-81	for 0.030"-0.045"
214-91	for 0.052"-3/32"
214-9	for 7/64" - 1/8"

Tweco® #4

1880259T4	Power Pin Kit
214	Power Pin (Includes O-Rings)

Tweco® #5

1880259T5	Power Pin Kit
214-12	Power Pin (Includes O-Rings)

AutoLength Pin

214-80	for 0.030"-0.045"
214-90	for 0.052"-3/32"

AutoLength Pin

214-812	for 0.030"-0.045"
214-912	for 0.052"-3/32"

See Universal Power Pin Spec Sheet (SP-PPK) for more information

Additional Options

(not configurable, please order separately)

Bernard Jump Liners (included with and to be used with Rotatable Neck option guns)

Jump liners replace only the most commonly worn and clogged liner area to reduce the amount of time a gun is offline and to minimize inventory. These jump liners enable quick and easy neck change-out so guns can be easily adapted to fit multiple applications.

The Bernard Jump Liners connect with conventional liners at the base of the neck and run through the most commonly worn area up to the contact tip.

QJL-2330	0.023" - 0.030" (0.6 mm - 0.8 mm)	14"
QJL-2330-XL	0.023" - 0.030" (0.6 mm - 0.8 mm)	27"
QJL-3545	0.035" - 0.045" (0.9 mm - 1.2 mm)	14"
QJL-3545-XL	0.035" - 0.045" (0.9 mm - 1.2 mm)	27"
QJL-116	1/16" (1.6 mm)	14"
QJL-116-XL	1/16" (1.6 mm)	27"
QJLH-116	1/16" Heavy Duty (1.6 mm)	14"
QJLN-364*	0.035" - 3/64" Nylon (0.9 mm - 1.2 mm)	14"
QJLN-116*	1/16" Nylon (1.6 mm)	14"

*Nylon liners available for aluminum wire. See Liner spec sheet (L-1.4) for details

For use with Rotatable Neck option guns.

See Bernard Jump Liner Spec Sheet (SP-JL) for more information

Specialty Nozzles

TOUGH ACCESS™ Consumables are a sleek line of consumables (including retaining heads and nozzles) that allow entry into those hard-to-reach places that would otherwise be inaccessible due to fixture design or weldment.

Available in straight bore (5/8") and bottleneck (1/2") style nozzles, these unique consumables are compatible with TOUGH LOCK™ Contact Tips.

Compatible with Fixed Necks on Straight Handle Styles only.



See Tregaskiss TOUGH ACCESS™ Consumables Spec Sheet (SP-TAC) for more information

Flex Necks

For B Series and O Series Handles

Save labor and time — change, rotate or bend the Flex Neck to your desired angle without tools. The connection improves conductivity for better weld quality and lessens heat to increase operator comfort. Available in 6" and 8" lengths and is easily removable for jump liner changover. Compatible with Bernard Centerfire™ and Quik Tip™ Consumables.

- QT-F-6** 6" length
- QT-F-8** 8" length



T Series Handles

The Flex Neck for T Series handles features a braided copper conductor tube with a bend radius of up to 80° allowing you to reach your weld joints comfortably. The flex neck can be replaced without disturbing cable connections and is compatible with select Tregaskiss™ TOUGH LOCK™ and TOUGH ACCESS™ Consumables.

405-FL

See Flex Neck Spec Sheet (SP-FN) for more information



Additional Options (continued)

(not configurable, please order separately)

Specialty Necks

There are additional standard necks available in multiple lengths and bends that will help ensure a high quality weld and to improve operator comfort.

See Neck Spec Sheet (N-1.6) for more information.



Accessories

(not configurable, please order separately)

Neck Grips



For Curved Handle MIG Guns

This high temperature rubber sleeve for curved handle MIG guns provides the operator with improved accuracy and reduced heat exposure. The Q-Neck Grip is designed to help users hold the neck in a steady position, improve overall weld quality and reduce operator fatigue.

1840067



For T Series Handles

This neck grip features a heavy duty metal spring for straight handle MIG guns configured with fixed necks. Designed to reduce heat exposure and help users hold the neck in a steady position in order to improve weld quality and reduce operator fatigue.

406-1 45°
406-2 60°

Q-Neck Coupler



The Q-Neck Coupler is designed to connect any two Q-Necks for flexibility and to minimize the need for special-order necks. Compatible with any rotatable necks.

QT-CPL

Additional Accessories

Gun Hanger

Store your Bernard MIG Gun neatly and efficiently between welds with this gun hanger.

422H Compatible with fixed or rotatable necks
1790002 Compatible with B Series Small and Large Handles

Heat Shield

Our durable heat shield prevents injury by protecting the user's hand from the heat of the weld, improving operator comfort and weld quality.

421 Compatible with fixed or rotatable necks



Handle Replacement Kits

B Series Small and Large

1880155 200, 300 amp (std, locking, dual pull)
1880198 400 amp (std, locking, dual pull)
DSA-1 400 amp Dual Schedule (std. and locking)

O Series Small

1880219 200, 300, 400 amp (std, locking)
177370 200, 300, 400 (std. with ext.)

O Series Large

1880220 400, 500, 600 amp (std, locking, dual pull)
1880221 400, 500, 600 amp Dual Schedule (std. and locking)

T Series Small

320 300 amp (standard)

Ordering Information

Amperage	Length	Handle & Trigger Option	Neck Option	Consumable	Wire Sizes	Power Pin	Liner Type
Q40	15	A	E	8	D	M	L
Industrial Grade Cable	08 ft. (2.44 m)	B Series Small Curved Handle Q20, Q30	Rotatable † A Short 30°	2 TOUGH LOCK™ [^] Standard Duty	A 0.023"(.6 mm)	B Bernard™	C Universal Conventional
Q20 200 Amp Max. wire size 1/16"	10 ft. (3.05 m)	A Standard Trigger	B Short 45°	3 TOUGH LOCK™ ^{^^} Heavy Duty	B 0.030"(.8 mm)	E Euro	L QUICK LOAD™ Liner AutoLength™ System**
Q30 300 Amp Max. wire size 5/64"	12 ft. (3.66 m)	B Locking Trigger	C Short 60°	5 Quik Tip™ ^{^^^}	C 0.035"(.9 mm)	L Lincoln®	Q QUICK LOAD™ Liner***
Q40 400 Amp Max. wire size 5/64"	15 ft. (4.57 m)	C Dual Pull Trigger	J Short 80°	8 Centerfire™ ^{^^^}	D 0.039"(1.0 mm)	M Miller®	
Q40 400 Amp Max. wire size 5/64"	20 ft. (6.16 m)	B Series Large Curved Handle Q40	D Medium 30°		E 0.045"(1.2 mm)	O OXO™	
Q50 500 Amp Max. wire size 3/32"	25 ft. (7.63 m)	A Standard Trigger	E Medium 45°		H 0.052"(1.4 mm)	R Tweco® #4 (Miller Lead)	
Q60 600 Amp Max. wire size 1/8"		B Locking Trigger	F Medium 60°		I 1/16"(1.6 mm)	S Tweco #4 (Lincoln Lead)	
Steel Monocoil Cable		C Dull Pull Trigger	G Long 30°		K 5/64"(2.0 mm)	T Tweco #4 (std. Lead)	
S30 300 Amp Max. wire size 5/64"		D Dual Schedule Switch	H Long 45°		L 3/32"(2.4 mm)	U Tweco #4 (NAS Plug)	
S40 400 Amp Max. wire size 5/64"		E Locking Dual Schedule	I Long 60°		M 7/64"(2.8 mm)	W Tweco #5 (std. Lead)	
S50 500 Amp Max. wire size 3/32"		O Series Large Curved Handle Q40, Q50, Q60, S40, S50, S60	Fixed N Short 30°††		N 1/8"(3.2 mm)	X Tweco #5 (Miller Lead)	
S60 600 Amp Max. wire size 1/8"		G Standard Trigger	O Short 45°		Aluminum Q 0.035"(.9 mm)		
		H Locking Trigger	P Short 60°		R 3/64" (1.19 mm)		
		I Dual Pull Trigger	W Short 80°††		S 1/16" (1.6 mm)*		
		K Dual Schedule Switch	Q Medium 30°††				
		L Locking Dual Schedule	R Medium 45°				
		T Series Large Straight Handle Q30, Q40, Q50, Q60, S30, S40	S Medium 60°				
		M Standard Trigger	X Medium 80°††				
		N Locking Trigger	T Long 30°††				
		P Dual Pull Trigger	U Long 45°				
		Q Dual Schedule Switch	V Long 60°				
		R Locking Dual Schedule	Y Extra Long 45°†††				
		T Series Small Straight Handle Q30	Z Extra Long 60°†††				
		S Standard Trigger					
		O Series Small Curved Handle Q20, Q30, Q40, S30, S40					
		T Standard Trigger					
		U Locking Trigger					

†Not compatible with T Series Small Straight handle styles.
 †† For B Series and O Series Curved Handle styles only. Not compatible with T Series Straight Handle styles.
 ††† For T Series Large Straight Handle styles only. Not compatible with B Series and O Series Curved Handle styles or T Series Small Straight Handle styles.
 ^Available for wire sizes up to 0.045" for 200, 300 and 400 amp guns.
 Not available for 500 or 600 amp guns.
 ^^Available for wire sizes up to 3/32" for 300, 400, 500 and 600 amp guns.
 Not available for 200 amp guns.
 ^^^Available for wire sizes up to 1/16" for 200 amp guns, up to 5/64" for 300-400 amp guns, up to 7/64" for 500 amp guns, and up to 1/8" for 600 amp guns.
 *Not available for TOUGH LOCK Standard Duty (SD) Contact Tips.
 **Available for wire sizes between 0.030" and 3/32". Not compatible with Bernard Power Pin or OXO Power Pin options. Not compatible with aluminum wire.
 ***Available for wire sizes between 0.023" and 3/32". Available for cable lengths up to 15 ft (4.57 m). Not compatible with aluminum wire.

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. Please visit BernardWelds.com for the most up-to-date information.

Distributed By:

