BERNARD™

SEMI-AUTOMATIC MIG GUNS & CONSUMABLES

BernardWelds.com

ABOUT BERNARD

CONFIGURE YOUR BERNARD MIG GUN ONLINE!

Configure the right semi-automatic MIG gun for your welding application today. Build your premium semi-automatic MIG gun online, or if you're looking for a light to medium duty MIG welding gun, you can find the TGX™ MIG Gun that's right for you. Visit **BernardWelds.com/ConfigureMyGun** to get started today!

GET SOCIAL WITH BERNARD

Check us out on YouTube at **YouTube.com/TheBernardDifference** and follow us on LinkedIn at **LinkedIn.com/company/Bernard-Welding**. Find us on Facebook at **Facebook.com/BernardWelds**.
Join our online community today!

AMPERAGE *(E-NEWSLETTER)*

This electronic publication features an assortment of valuable welding and business management information; new product sneak peeks; announcements; and fun, interactive trivia; contests and more! Sign up for your FREE subscription at **BernardWelds.com/Amperage**.

EQUIP TO WELD

CONFIGURE YOUR INDUSTRIAL SYSTEM

Bernard and Miller® Are Welded Together!

Miller integrates premium Bernard™ Semi-Automatic MIG Guns and TGX™ MIG Guns, along with Centerfire™ and TOUGH LOCK™ Consumables, on industrial wire feeder products and MIG systems. Visit **MillerWelds.com/equiptoweld** to configure your industrial system.

BERNARDWELDS.COM

For immediate access to the most up-to-date information, visit us online!

- Locate your nearest Bernard Authorized Distributor at **BernardWelds.com/Locator**
- Find product literature, spec sheets and troubleshooting information
- Download Bernard literature, or complete our online Literature Request Form to have it mailed straight to your door!
- Purchase Bernard gear at our online company store

QUESTIONS?

Email us at info@bernardwelds.com

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Subject to Change — The information presented in this catalog is accurate to the best of our knowledge at the time of printing. Please visit BernardWelds.com for the most up-to-date information.

BERNARD AIR-COOLED MIG GUNS

BEST OF THE BEST (BTB) PLATFORM

WEBSITE QUICKLINKS:
BernardWelds.com/BTB
BernardWelds.com/ConfigureMyGun

OUR MOST FLEXIBLE AND RUGGED MIG GUN OFFERING EVER!

Build your ultimate MIG gun as you choose from an expanded list of the best features of our top MIG gun lines — now consolidated for your convenience into a single gun line and single online configurator.

Here's what's now compatible with curved and straight handles from our former Q-Gun™, S-Gun™ and T-Gun™ MIG Gun lines:

NEW! ***ONE YEAR MANUFACTURER'S WARRANTY***

NEW! ***YOUR CHOICE OF FIXED OR ROTATABLE NECK****
See page 7

NEW! ***YOUR CHOICE OF CONSUMABLES — TOUGH LOCK™, QUIK TIP™ OR CENTERFIRE™ — ON ANY FRONT HANDLE STYLE***
See page 4

NEW! ***YOUR CHOICE OF UNIVERSAL CONVENTIONAL LINERS OR QUICK LOAD™ LINERS***
See page 22-23

NEW! ***YOUR CHOICE OF A UNIVERSAL POWER PIN OR AUTOLENGTH™ PIN FOR THE QUICK LOAD LINER AUTOLENGTH SYSTEM — VARIETY OF PINS AVAILABLE TO CONNECT WITH MOST MAJOR BRANDS OF FEEDERS***
See page 24

YOUR CHOICE OF SIX FRONT HANDLE STYLES AND SIZES
See Page 6

NEW! ***YOUR CHOICE OF INDUSTRIAL GRADE CABLE OR STEEL MONOCOIL CABLE****
See Page 8

NEW! ***STRAIGHT REAR STRAIN RELIEF WITH LIFETIME WARRANTY — NOW STANDARD ON ALL FRONT HANDLE STYLES****
See Page 8

ACCESSORIES

- ☐ Q-Neck coupler and grip
- ☐ Heat shield
- ☐ Neck guard
- ☐ Specialty nozzles
- ☐ Lock-on trigger options
- ☐ Dual schedule switch
- ☐ Gun hanger
- ☐ Repair kits
- ☐ Flex necks

*Some limitations exist. Please consult our online configurator or your Customer Service Representative.

BERNARD AIR-COOLED MIG GUNS

BEST OF THE BEST (BTB) PLATFORM

WEBSITE QUICKLINKS:
BernardWelds.com/BTB
BernardWelds.com/ConfigureMyGun

CHOOSE YOUR WEAPON — BEST OF THE BEST PLATFORM GUN CONFIGURATOR

We recognize that welding applications differ for every welder and that sometimes only a customizable, industrial-duty MIG gun will get the job done right. That's why we allow you to configure a custom MIG gun that fits your specific application.

NOW WITH EVEN MORE OPTIONS!

1 AMPERAGE

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

2 CABLE LENGTH

08	8 ft (2.44 m)
10	10 ft (3.05 m)
12	12 ft (3.66 m)
15	15 ft (4.57 m)
20	20 ft (6.10 m)
25	25 ft (7.62 m)

4 NECK

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

See page 7 for part numbering and compatibility.

5 CONTACT TIP

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

6 WIRE SIZE

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

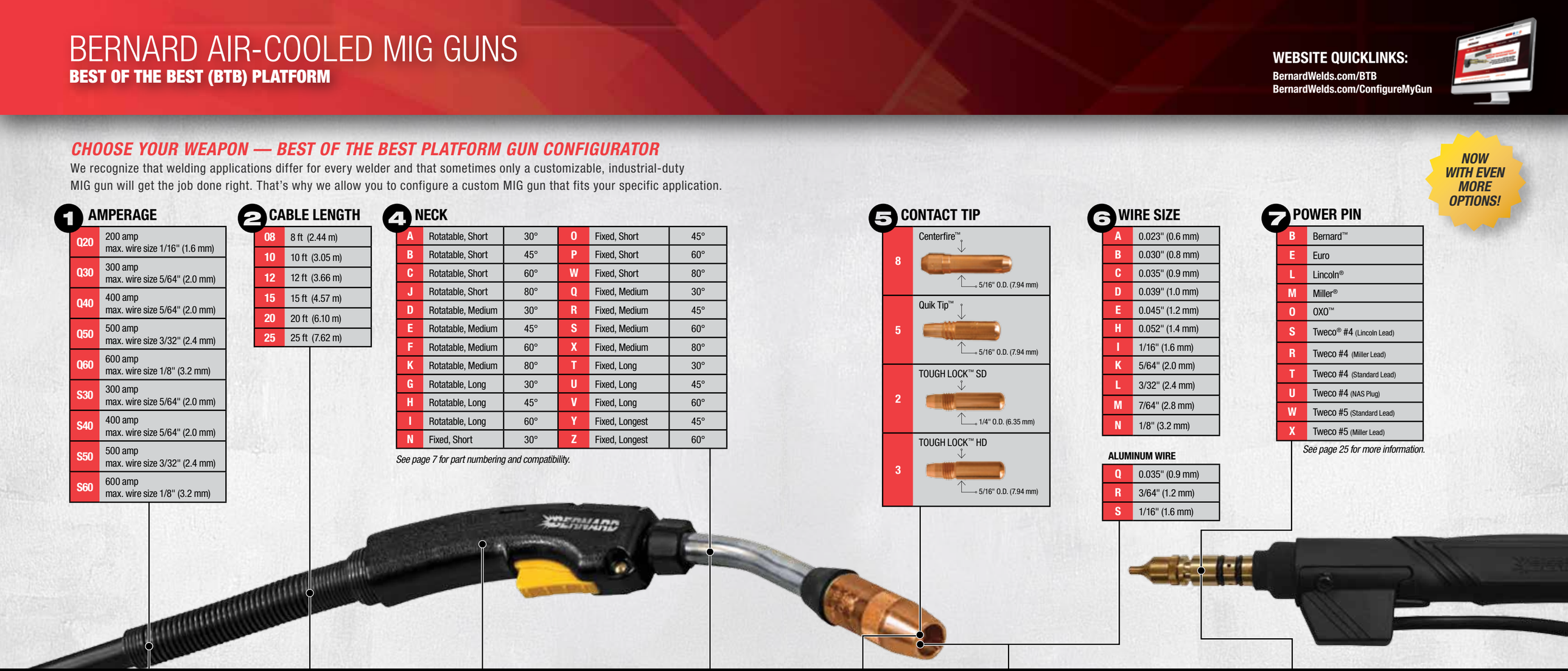
ALUMINUM WIRE

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

7 POWER PIN

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

See page 25 for more information.



3 HANDLE AND TRIGGER

B Series Small Curved Handle	Q20, Q30	A B C	Standard Trigger Locking Trigger Dual Pull Trigger	**T Series Small Straight Handle**	Q30	S	Standard Trigger
B Series Large Curved Handle	Q40	A B C D E	Standard Trigger Locking Trigger Dual Pull Trigger Dual Schedule Switch Locking Dual Schedule	**T Series Large Straight Handle**	Q30, Q40, Q50, Q60 S30, S40	M N P Q R	Standard Trigger Locking Trigger Dual Pull Trigger Dual Schedule Switch Locking Dual Schedule
O Series Large Curved Handle	Q40, Q50, Q60 S40, S50, S60	G H I K L	Standard Trigger Locking Trigger Dual Pull Trigger Dual Schedule Switch Locking Dual Schedule	**O Series Small Curved Handle**	Q20, Q30, Q40 S30, S40	T U	Standard Trigger Locking Trigger

See page 6 for more information.

The diffusers and nozzles in the chart below come factory installed by 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

8 LINER

C	New! Universal Conventional Liner
Q	QUICK LOAD™ Liner*
L	QUICK LOAD Liner AutoLength™ System**

**Available for wire sizes 0.023" to 3/32"*
***Available for wire sizes 0.030" to 3/32"*

**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.*

BERNARD AIR-COOLED MIG GUNS

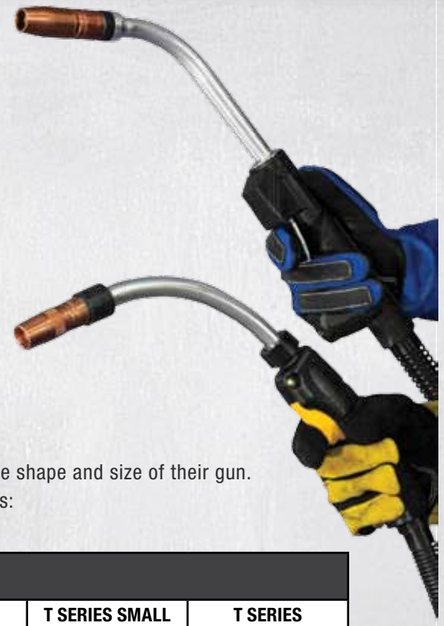
BEST OF THE BEST (BTB) PLATFORM

WEBSITE QUICKLINKS:
BernardWelds.com/BTB
BernardWelds.com/ConfigureMyGun

GUN AMPERAGE RATINGS*

GUN MODEL	60% DUTY CYCLE — MIXED GASES OR 100% DUTY CYCLE — CO_2
200 amp	200
300 amp	300
400 amp	400
500 amp	500
600 amp	600

**Ratings are based on tests that comply with IEC 60974-7 standards.*



BEST OF THE BEST PLATFORM HANDLE OPTIONS

Bernard understands that welders have strong preferences when it comes to the handle shape and size of their gun. That's why you can now configure your gun with one of the following six handle options:

HANDLE OPTIONS						
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	Standard, Locking, Dual Pull	Standard, Locking, Dual Pull, Dual Schedule Switch, Dual Schedule Switch with Locking	Standard, Locking	Standard, Locking, Dual Pull, Dual Schedule Switch, Dual Schedule Switch with Locking	Standard	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

BEST OF THE BEST PLATFORM NECK OPTIONS

T Series Small Straight Handle

T Series Large Straight Handle

B Series Small Curved Handle

B Series Large Curved Handle

O Series Small Curved Handle

O Series Large Curved Handle

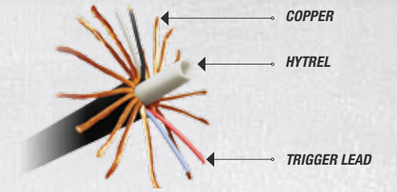
Neck Type		Angle	Part #
Fixed	O	45, Short	205-45
	P	60, Short	205-60
	R	45, Medium	315-45
	S	60, Medium	315-60
	U	45, Long	405-45NB
	V	60, Long	405-60NB
Neck Type		**Angle**	**Part #**
Fixed	O	45, Short	305-45
	P	60, Short	305-60
	R	45, Medium	405-45
	S	60, Medium	405-60
	U	45, Long	505-45
	V	60, Long	505-60
	Y	45, Longest	405-45LL
	Z	60, Longest	405-60LL
Neck Type		**Angle**	**Part #**
Rotatable	A	30, Short	QT2-30
	B	45, Short	QT2-45
	C	60, Short	QT2-60
	J	80, Short	QT2-80
	D	30, Medium	QT3-30
	E	45, Medium	QT3-45
	F	60, Medium	QT3-60
	K	80, Medium	QT3-80
	G	30, Long	QT5-30
	H	45, Long	QT5-45
	I	60, Long	QT5-60
Neck Type		**Angle**	**Part #**
Fixed	N	30, Short	QT2-30
	O	45, Short	QT2-45
	P	60, Short	QT2-60
	W	80, Short	QT2-80
	Q	30, Medium	QT3-30
	R	45, Medium	QT3-45
	S	60, Medium	QT3-60
	X	80, Medium	QT3-80
	T	30, Long	QT5-30
	U	45, Long	QT5-45
	V	60, Long	QT5-60

BERNARD AIR-COOLED MIG GUNS

BEST OF THE BEST (BTB) PLATFORM

CABLE OPTIONS

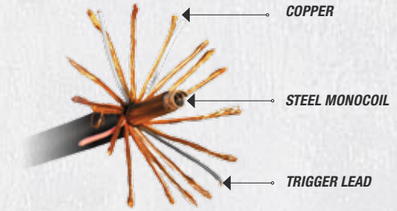
All straight handle air-cooled MIG guns will now use the same proven industrial-grade cable as our curved handle guns which features cotton wrapped copper and durable trigger leads. Our steel monocoil cable is also available for some configurations and provides superior crush resistance and wire feedability.



INDUSTRIAL GRADE CABLE

COMMON STRAIGHT REAR STRAIN RELIEF

The common straight rear strain relief was built with durability in mind and also comes with a manufacturer's lifetime warranty! Please note that guns configured with a Euro and Bernard power pin come with a two piece clamshell rear strain relief which is also covered by a lifetime warranty.



STEEL MONOCOIL CABLE

UNIVERSAL POWER PIN OPTIONS

Power pins provide a direct connection for wire, electrical current and gas flow between various feeder models and your Bernard™ MIG Gun. Launching with the Best of the Best Platform, we now offer a new line of Universal Power Pins that are common to all handle styles!

See page 25 for more information.

LINER OPTIONS

Our new Best of the Best Platform offers a variety of MIG welding liner options to better suit your needs. The **new Universal Conventional Liner** is compatible with all legacy Q-Gun™, S-Gun™, T-Gun™ Air-Cooled MIG Guns and all Best of the Best Platform Guns, which allows you to simplify and reduce your inventory.

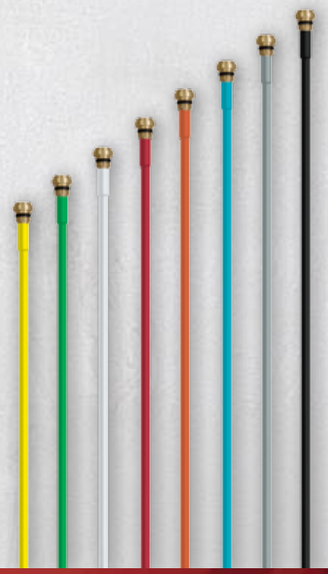
See page 22 for more information.

Want to save time by loading your liner from the front of your gun? The **QUICK LOAD™ Liner** is now compatible with both straight and curved handle MIG guns through the Best of the Best Platform.

See page 23 for more information.

The **QUICK LOAD Liner AutoLength™ System** is also available for straight and curved handle guns. This revolutionary system was designed specifically to minimize downtime, wire feeding and quality issues commonly associated with short liner length.

See page 24 for more information.



BERNARD TGX SERIES

WEBSITE QUICKLINK:
BernardWelds.com/TGX

FOR LIGHT TO MEDIUM DUTY WELDING APPLICATIONS

The Bernard™ TGX™ Series (formerly the Tregaskiss™ TGX Series) is perfect for low volume, light to medium duty welding and is a durable, attractively priced choice. Ideally suited for lower amperage welding applications and shorter arc-on times, TGX MIG Guns are available in XS Series (180, 260, 300 amp) and XL Series (300, 400 amp) models and are compatible with Tregaskiss **TOUGH LOCK™** and Tregaskiss **TOUGH ACCESS™** Consumables.

CABLE STRAIN RELIEF
- Strain relief on front and rear cables
- Protects cable from wear by preventing kinking and abrasion
- Improves wire feedability

POLYMER-ARMORED NECK
- Thick copper wall with conductor tube interior
- Available in a 60-degree angle for 260 and 400 amp MIG guns

TREGASKISS TOUGH LOCK CONSUMABLES WITH STANDARD-DUTY SLIP-ON NOZZLE

UNICABLE DESIGN
- Crimped internal connection
- Available in 10-,12- and 15-foot lengths

DURABLE HANDLES

*AMPERAGE RATINGS**

GUN MODEL	60% Duty Cycle – Mixed Gases or 100% Duty Cycle – CO_2
180 amp (XS)	180
260 amp (XS)	260
300 amp (XS)	300
300 amp (XL)	300
400 amp (XL)	400

* Ratings are based on tests that comply with IEC 60974-7 standards.

BERNARD TGX SERIES

WEBSITE QUICKLINK:
BernardWelds.com/TGX

BERNARD TGX™ EASY AS 1-2-3! PROGRAM

The TGX Easy as 1-2-3! Program is a unique retail system that allows a TGX MIG Gun to be assembled to your exact specifications in your welding distributor's retail store. Distributors benefit from the program by being able to offer 150 different MIG gun combinations while reducing inventory by up to 75 percent.

Answer the following quick and easy questions to determine which part numbers are required for your gun.

QUESTION 1

What amperage and cable length do you need?
Your answer determines the gun chassis you require.

AMPERAGES	GUN LENGTHS		
	10'	12'	15'
180 amp (XS)	XS1810	XS1812	XS1815
260 amp (XS)	XS2610	XS2612	XS2615
300 amp (XS)	XS3210	XS3212	XS3215
300 amp (XL)	XL3010	XL3012	XL3015
400 amp (XL)	XL4010	XL4012	XL4015

QUESTION 2

What wire feeder model are you using?
Your answer determines the feeder connection and control plug you require.

FEEDER BRAND	POWER PIN PART # /NAME	REQUIRED ADAPTOR	REQUIRED CONTROL PLUG
Miller®	214-1 Miller	N/A	419-4
Lincoln®	214-2 Lincoln	N/A	419-6
Hobart®	214 Tweco #4 (Standard Lead)	N/A	419-8
Euro (various)	214-1 Miller	417-64	419-4
	214 Tweco #4 (Standard Lead)	417-65	419-8

NOTE: Euro not available for 180 or 260 amp guns.

If your feeder does not appear in the chart above, please contact Bernard Customer Service by email at cs@itwmig.com or by phone at 1-855-MIGWELD (644-9353).

QUESTION 3

What wire size are you using? *Your answer determines the contact tip and liner you require.*

WIRE SIZE *	TOUGH LOCK™ SD CONTACT TIP PART # **	TOUGH LOCK HD CONTACT TIP PART # ***	LINER PART #
0.030" (0.8 mm)	403-14-30-05	403-20-30-05	L1A-15
0.035" (0.9 mm)	403-14-35-05	403-20-35-05	L2A-15
0.045" (1.2 mm)	403-14-45-05	403-20-45-05	L3A-15
1/16" (1.6 mm)	N/A	403-20-116-05	L4A-15

* 0.030" compatible with 180 amp only. 0.045" not compatible with 180 or 260 amp guns. 1/16" compatible with 400 amp only.

** Standard-duty contact tips only compatible with 180 and 260 amp guns.

*** Heavy-duty contact tips not compatible with 180 or 260 amp guns.

CONFIGURE ONLINE AT BernardWelds.com/ConfigureMyGun

BERNARD TGX READY TO WELD PROGRAM

If you prefer a factory-built gun, the TGX Ready to Weld Program is the perfect solution. This program offers a variety of factory-assembled TGX MIG Guns that are ready to weld right out of the box. Just order the part number best suited to your welding application using our online configurator at **BernardWelds.com/ConfigureMyGun** or visit **BernardWelds.com/ReadyToWeld** to refer to the part number chart.

BERNARD WATER-COOLED MIG GUNS

WEBSITE QUICKLINK:
BernardWelds.com/Water-Cooled

BERNARD W-GUN™ SERIES WATER-COOLED MIG GUNS

Bernard W-Gun MIG Guns contain a flexible cable assembly with reinforced synthetic rubber hoses to prevent water leakage, provide increased water flow and reduce gas leakage. Heavy-duty necks are available in multiple lengths and bend configurations to allow for optimal weld accessibility and improved operator comfort. Multiple handle and trigger options are available as well to increase operator comfort.

- Water block with interchangeable direct plugs and trigger leads
- Durable and easily replaced power pin housing with a coolant hose strain relief
- Coolant channel keeps the consumables cool under high-amperage, high-heat applications
- Available in 600 amp models

BERNARD T-GUN™ WATER-COOLED SERIES MIG GUNS

The Bernard T-Gun Water-Cooled Series (formerly the Tregaskiss™ TOUGH GUN™ Semi-Automatic Water-Cooled MIG Guns) are engineered for superior performance in production environments requiring extremely high-heat applications. All guns are built to order.

- Neck is insulated and armored with stainless steel to withstand abuse
- All neck joints are silver brazed and 100% leak tested
- Custom gun length options
- Available in 400 amp (compact series handle) and 600 amp models

BERNARD DURA-FLUX SERIES

WEBSITE QUICKLINK:
BernardWelds.com/Dura-Flux

A FLUX-CORED GUN BUILT FOR THE WAY YOU WELD

Self-shielded flux-cored welding can be brutal on both you and your welding equipment. That's why Bernard designed the Dura-Flux™ MIG Gun to be extremely durable, yet comfortable to hold and use.

Our Dura-Flux MIG Guns meet the demanding needs and harsh environments of construction, shipbuilding, heavy manufacturing and rental applications. Triggers are non-metallic to absorb less heat. The triggers are also made with a sealed micro switch that helps keep out dust and dirt to provide a long-lasting work life.

Bernard now offers two lines of Dura-Flux Series Self-Shielded Flux-Cored MIG Guns. One gun features a replaceable power cable liner, while the other one features a fixed liner. Can't decide which application best suits your needs? See the comparison chart below:

Features	Dura-Flux with Replaceable Power Cable Liner	Dura-Flux with Fixed Power Cable Liner
350 amp	✓	✓
Internal Trigger Leads	✓	
Replaceable Liner	✓	
Fixed Liner		✓
Optional Dual Schedule Switch	✓	
Hi-Viz™ Neck	✓	
Quik Tip™ Contact Tips	✓	
Centerfire™ Contact Tips		✓
Wire Size 0.045" - 5/64"	✓	
Wire Size 1/16" - 3/32"		✓

DURA-FLUX™ MIG GUNS WITH REPLACEABLE POWER CABLE LINER

- Internal trigger leads, which means no trigger cord to get caught on surrounding objects
- Replaceable power cable liner that allows quick and easy power cable maintenance
- Optional dual schedule switch allows wire speed adjustment while welding and is integrated into the handle to keep it protected from weld spatter
- Lightweight, rotatable Hi-Viz™ neck reduces user fatigue and improves weld visibility

DURA-FLUX MIG GUNS WITH FIXED POWER CABLE LINER

- Ultra heavy-duty steel monocoil power cables that are highly resistant to kinking for exceptional wire feed in abusive environments
- **Centerfire™** Contact Tips are easy-to-use, high performing and provide better arc starts, less spatter and more consistent welds — and last up to three times longer than most competitive brands
- Sleeved and aluminum-armored necks are available in multiple lengths for optimal accessibility and improved operator comfort
- Trigger is sealed from outside contaminants, is simple to replace and absorbs less heat than a metal trigger for long life, greater arc-on time and lower heat output

Please see the Dura-Flux Spec Sheet (SPEC DF) at BernardWelds.com/spec for a complete list of part numbers.

BERNARD FUME EXTRACTION MIG GUNS

WEBSITE QUICKLINK:
BernardWelds.com/FumeGuns

NEW! BERNARD CLEAN AIR™ FUME EXTRACTION MIG GUNS

GET RIGHT TO THE SOURCE!

Reduce smoke at the source with the industrial-duty Bernard Clean Air Fume Extraction MIG Gun! Maintaining a clean more compliant working environment is important and Bernard understands the need for a reliable fume extraction solution.

- Available in 400, 500 and 600 amp models
- Easily slide the nozzle shroud to one of four positions to optimize fume capture, gas flow and weld access
- Redesigned to closely match the weight, handle size, durability and industrial grade performance of regular Bernard MIG Guns
- 360° hose swivel for greater flexibility and balance
- Suitable for use with solid and flux-core wires
- Compatible with vacuum systems from most major manufacturers
- Available with **Centerfire™**, **Quik Tip™** or **TOUGH LOCK™** Consumables that ensure reliable arc starting, help reduce spatter and are longer lasting than competitive brands
- Vacuum hose is crush and snag resistant and is durable enough to eliminate the need for a bulky vacuum hose cover

CONSUMABLES
- Choose between Centerfire™, Quik Tip™ or TOUGH LOCK™ Consumables

NOZZLE SHROUD
- Adjusts to one of four fixed positions

HANDLE
- Rubber overmold on handle provides comfort and control

VACUUM HOSE
- Crush and snag resistant vacuum hose that features a threaded connection for easy replacement

VACUUM HOSE SWIVEL
- 360° hose swivel for greater flexibility and balance

HOW DOES THE BERNARD CLEAN AIR™ FUME EXTRACTION MIG GUN WORK?

The new Bernard Clean Air Fume Extraction MIG Gun is ideal for most solid and flux-core wire welding applications and is compatible with vacuum systems from most major manufacturers. Weld fumes are captured at the front of the gun via the chrome-plated vacuum chamber, suctioned through the Bernard Clean Air Gun handle and into the hose to a port on the vacuum system.

For ease of maneuverability and to reduce wrist fatigue, the gun's comfortable straight handle with a rubber overmold has a 360° hose swivel connection to the vacuum hose. An adjustable extraction control at the front of the gun handle allows the welder to balance the suction with shielding gas flow to protect against porosity.

CONFIGURE ONLINE AT BernardWelds.com/ConfigureMyGun

BERNARD FILTAIR™ FUME EXTRACTION MIG GUNS

EXTRACT FUMES AT THE WELD BEAD!

Extract fumes with the Bernard FILTAIR Fume Extraction MIG Gun to help maintain a clean working environment!

- Available in 300 and 400 amp models
- Vacuum control on front of handle allows balance of suction with shielding gas flow to protect against porosity
- Smaller, lightweight handle improves maneuverability and operator comfort
- Vacuum hose swivel on rear of handle improves flexibility and reduces wrist fatigue
- Available with **Centerfire™** or **Quik Tip™** Consumables that ensure reliable arc starting, help reduce spatter and are longer lasting than competitive brands

Please see the FILTAIR Fume Extraction Spec Sheet (SPEC FFE) at BernardWelds.com/spec for a complete list of part numbers.

SPECIALTY NECKS

WEBSITE QUICKLINK:
BernardWelds.com/SpecialtyNecks

If you are unable to reach your weld joints comfortably using one of our wide selection of standard necks, consider adding one of the following specialty necks or neck accessories to your Bernard MIG Gun:

FLEX NECKS FOR B SERIES AND O SERIES HANDLES (BTB PLATFORM)

- Save labor and time — change, rotate or bend neck to desired angle without tools
- Connection improves conductivity for better weld quality, lessens heat to increase operator comfort
- Available in 6" and 8" lengths and are easily removable for jump liner changeover
- Compatible with **Centerfire™** or **Quik Tip™** Consumables

FLEX NECKS FOR T SERIES HANDLES (BTB PLATFORM)

- Bend angle up to 80 degrees
- Braided copper conductor tube
- Can be replaced without disturbing cable connections
- Compatible with select Tregaskiss™ TOUGH LOCK™ and Tregaskiss TOUGH ACCESS™ Consumables

Q-NECK COUPLER

- Designed to connect any two Q-Necks
- Provides flexibility and cost savings while minimizing the need for special-order necks
- Compatible with any rotatable neck

NECK GRIP FOR CURVED HANDLE MIG GUNS

- High-temperature rubber sleeve
- Designed to reduce heat exposure and help user hold neck in a steady position
- Improves overall weld quality and reduces operator fatigue

NECK GRIP FOR STRAIGHT HANDLE MIG GUNS CONFIGURED WITH FIXED NECKS

- Heavy-duty metal spring
- Designed to reduce heat exposure and help user hold neck in a steady position
- Improves overall weld quality and reduces operator fatigue

SPECIALTY NECKS

- Multiple lengths and bends available for limited access positions and improved operator comfort
- Additional charges and/or extra lead times may apply

MIG GUN CONSUMABLES

WEBSITE QUICKLINK:
BernardWelds.com/Consumables

To assist you in selecting the consumable series that's compatible with your MIG gun, please consult the reference chart below:

CONSUMABLES AND MIG GUN SERIES COMPATIBILITY CHART

	Centerfire™	Quik Tip™	Tregaskiss™ TOUGH LOCK™	Tregaskiss TOUGH ACCESS™
Best of the Best Platform	✓	✓	✓	SP
TGX™ MIG Guns	CK	CK	✓	✓
W-Gun™ MIG Guns	✓	✓		
T-Gun MIG Guns (water-cooled)			SP	
Bernard FILTAIR™ Fume Extraction Series	✓	✓		
Dura-Flux™ with Replaceable Power Cable Liner		✓		
Dura-Flux with Fixed Cable Liner	✓			

GUIDE: ✓ Compatible
SP Compatible, but may require special parts. Check Spec Sheet for details.
CK Compatible, but requires conversion kit

Are you looking for a particular feature or option in your consumable series? Please see the comparison chart below:

CONSUMABLES COMPARISON CHART

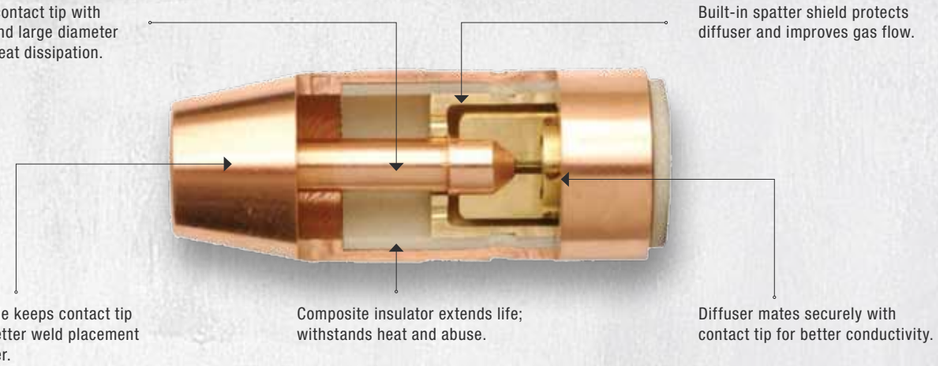
	Centerfire™	Quik Tip™	Tregaskiss™ TOUGH LOCK™	Tregaskiss TOUGH ACCESS™
Standard-Duty	✓	✓	✓	✓
Heavy-Duty	✓	✓	✓	✓
"Drop in" Contact Tip (no threads)	✓			
Threaded Contact Tips		✓	✓	✓
Extra Heavy-Duty Tips Available			✓	
Tapered Tips Available	✓	✓	✓	✓
Chrome Zirconium Tips Available			✓	✓
Threaded Nozzles	✓	✓	✓	
Slip-on Nozzles		✓	✓	✓
Nozzle has Built-in Spatter Shield	✓			
Competitive Conversion Parts Available	✓	✓	✓	
Compact Size - Hard to Access Welds				✓
Taper Lock - Tip to Diffuser/Head	✓	✓	✓	✓
Taper Lock - Diffuser/Head to Neck			✓	

CENTERFIRE CONSUMABLES

WEBSITE QUICKLINK:
BernardWelds.com/Centerfire

SEE HOW IT ALL ADDS UP TO GREAT PERFORMANCE

Bernard believes that it's important to choose longer-lasting consumables to avoid replacement and rework, to provide better arc-on time and to improve your bottom line. Centerfire™ Series Consumables are easy-to-use and high performing. They provide better arc starts, less spatter and more consistent welds, while lasting up to three times longer than most brands.



- Centerfire Contact Tips are non-threaded and are held in place by the nozzle. These contact tips lock into place and remain centered even after hard use for better weld consistency. It's quick and easy to replace the tip during routine maintenance or after burnbacks.
- Simply unscrew the nozzle by hand, replace the tip and hand-tighten the nozzle back into place — no tools required.
- Consumables suitable for use in heavy-duty and light commercial applications.
- Centerfire Nozzles contain a built-in spatter shield that smoothes and concentrates gas flow for less weld oxidation and contamination.
- Centerfire Contact Tips can be rotated 360 degrees to create new wear surfaces and extended tip life.

Please see the Centerfire Consumable Series Spec Sheet (SPEC CF) at BernardWelds.com/spec for a complete list of part numbers.

Centerfire HD Series

Available for heavy-duty applications such as shipbuilding, fabrication and other heavy equipment manufacturing operations. Heavy-Duty Centerfire Nozzles feature a removable nozzle cone, thicker wall and a high-temperature insulator. The removable nozzle cone lowers downtime and consumables costs by allowing operators to replace only the cone (the most frequently damaged part of the nozzle) without removing and replacing the entire nozzle body for spatter removal.

DID YOU KNOW THAT YOU CAN USE CENTERFIRE CONSUMABLES ON YOUR AIR-COOLED TGX™ MIG GUNS?
Please view the chart below for part numbers:

CENTERFIRE CONVERSION SERIES

Gun Model	Desired Nozzle	Adaptor	Insulator	Gas Diffuser
TGX Series	Small	N/A	4323R	DS-1T
	Large	N/A	4423R	D-1T

TOUGH LOCK CONSUMABLES

WEBSITE QUICKLINK:
Tregaskiss.com/TOUGHLOCK

Use TOUGH LOCK™ Consumables to achieve lower operating costs and increase productivity! This system features the innovative TOUGH LOCK Contact Tip and Retaining Head and is compatible with guns from the new Best of the Best Platform, TGX Series, and T-Gun Water-Cooled Series.

TOUGH LOCK Contact Tips are precision machined using a process that tightly controls tip tolerances. TOUGH LOCK Retaining Heads feature Dual Taper Technology — tapers at both ends keep consumables locked from the tip to neck — which improves weld consistency and heat dissipation for longer tip life and maximum performance.

PERFORMANCE-IMPROVING FEATURES

- Locks gun from contact tip to the neck to prevent loosening due to vibration
- Locked consumables create more consistent welds
- Surface area contact between tightly locked consumables helps to maximize heat dissipation and tip life
- Easier contact tip removal and replacement when retaining head remains locked to the neck

TREGASKISS NOZZLES

Tregaskiss™ Nozzles are designed for use with TOUGH LOCK Consumables. Engineered to be extremely durable and long-lasting, Tregaskiss Nozzles are made of hard-drawn copper or brass. The smooth surface finish and rounded edges help to minimize weld spatter build-up.

- Available in a wide variety of styles and materials
- Brass insert in nozzles maintains inner diameter and prevents rocking of nozzle
- High-temperature-resistant fiberglass insulator electrically insulates nozzle from the retaining head
- Heavy-duty crimp holds all three layers together

Please see the TOUGH LOCK Consumable System Spec Sheet (SPEC TRG-TLC) at BernardWelds.com/spec for a complete list of part numbers.

CONTACT TIP
- Cooler tip temperature reduces wear and extends tip life

DUAL-LEAD THREAD DESIGN
- 180 degree rotation of tip for extended tip life

DUAL TAPER TECHNOLOGY
- Prevents tip and retaining head from loosening

GREATER SURFACE AREA
- Increased contact between tip, head and neck maximizes heat dissipation

COMPETITIVE CONVERSION SERIES CONSUMABLES

WEBSITE QUICKLINK:
BernardWelds.com/Conversion

Not currently using a Bernard MIG Gun? You can still experience immediate benefits from both lines of consumables. Our conversion parts allow you to convert most competitive guns to **Centerfire™** or Tregaskiss™ **TOUGH LOCK™** Consumables. Enhance performance and standardize consumables for all your gun brands to minimize inventory management costs.

CENTERFIRE CONVERSION CHART

Gun Manufacturer	Gun Model	Desired Nozzle	Adaptor	Insulator	Gas Diffuser
Lincoln®	Magnum 300, Magnum 400	Small	Not Required	4323R	DS-1T
		Large		4423R	D-1T
Tweco®	160 Mini MIG	Small	1380020	4323R	DS-1
		Large	1380020	10012	D-1
	No. 3, No. 4 Tuff-n-Lite, Supra XT (HD Consumables)	Small	Not Required	4323R	DS-1T
		Large		4423R	D-1T
	SprayMaster 450	Small	Not Required	4323R (2 required)	DS-1T
		Large		4423R	D-1T
	ELC 250, ELC 350, SprayMaster 250, SprayMaster 350	Small	1380012	4323R	DS-1
		Large	1380012	10012	D-1

Brand and product names shown above are trademarks of their respective owners.

NOTE: More options available at BernardWelds.com/Conversion.

TREGASKISS TOUGH LOCK CONVERSION CHART

Gun Manufacturer	Gun Model	Gun Neck	TOUGH LOCK Heavy-Duty Retaining Head	Neck Insulator	Adaptor	QUICK LOAD™ Liner Retainer
Binzel®	ALPHA	N/A	404-46	402-11	N/A	N/A
Lincoln	Lincoln Magnum 300	KP1929 / KP1928 /KP1941	404-20	402-14	N/A	N/A
	Lincoln Magnum 400					
Tweco	Tweco #3	63J-60	404-20	402-14	N/A	415-37*
	Tweco #4	64J-60				
	SprayMaster 350	MS63-60				
	SprayMaster 450	MS64H-60				
	Weldskill 400	64A-60				
	Mini MIG	N/A	N/A	402-19	404-64	N/A

Brand and product names shown above are trademarks of their respective owners.

*Note: The 404-20 TOUGH LOCK Retaining Head will fit on most necks with an external 9/16" -18 thread, regardless of angle.

Order the 415-37 QUICK LOAD Liner Retainer to use Tregaskiss QUICK LOAD Liners for wire sizes .030" through 5/64".

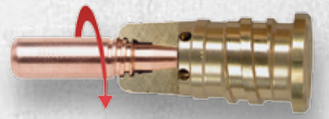
ADDITIONAL CONSUMABLES

WEBSITE QUICKLINKS:
BernardWelds.com/QuikTip
Tregaskiss.com/TOUGHACCESS

QUIK TIP™ CONSUMABLES

Bernard Quik Tip Contact Tips are designed with a threaded taper lock that increases tip life by providing excellent heat transfer and electrical conductivity.

- In case of burnback, a quick twist will get you back on the job within moments
- Quik Tip Gas Diffusers have positive nozzle stops to secure Quik Tip Contact Tips in a fixed position for superior repeatability and consistent, quality welds
- Quik Tip Nozzles are available in two styles — threaded or slip-on — with a variety of orifice diameters for optimal shielding gas coverage



A quick twist is all it takes to install Quik Tip Contact Tips.

QUIK TIP HD SERIES

Bernard Quik Tip HD Series features a two-piece nozzle comprised of a nozzle cone and nozzle body. The removable nozzle cone lowers downtime and consumable cost by allowing replacement of the cone (the most frequently damaged part of the nozzle) without removing and replacing the entire nozzle. Bernard Quik Tip HD Consumables are designed for heavy-duty applications such as shipbuilding, trailer fabrication and other heavy equipment manufacturing operations.

Please see the Quik Tip Consumable Series Spec Sheet (SPEC QT) at BernardWelds.com/spec for a complete list of part numbers.

TOUGH ACCESS™ CONSUMABLES

WORRIED ABOUT FITTING IN THOSE HARD-TO-REACH PLACES?

TOUGH ACCESS Consumables are a sleek line of welding consumables.

- Allow entry into difficult crevices that would otherwise be inaccessible due to complex fixture or weldment design
- Compatible with TOUGH LOCK™ Contact Tips
- Available in straight bore and bottleneck styles

Please see the TOUGH ACCESS Consumable Series Spec Sheet (SPEC TRG-TAC) at BernardWelds.com/spec for a complete list of part numbers.

NEW UNIVERSAL CONVENTIONAL LINERS

BERNARD UNIVERSAL CONVENTIONAL LINER

The new Universal Conventional Liners are compatible with all legacy Q-Gun™, S-Gun™ and T-Gun™ Air-Cooled MIG Guns, TGX™ Series and all Best of the Best Platform Guns, which allows you to simplify and reduce your inventory. These universal conventional liners are made of high carbon music wire for smooth wire feed and long life. Liners are available in lengths up to 25' (7.6 m) for various wire sizes. Please see chart below for part numbers and wire sizes.

NEW UNIVERAL LINERS				
Wire Size	**Liner Color**	**10' (3.05 m)**	**15' (4.57 m)**	**25' (7.62 m)**
0.023" - 0.030"	Yellow	---	L1A-15	L1A-25
0.030" - 0.035"	Green	---	L2A-15	L2A-25
0.035" - 0.045"	White	L3A-10*	L3A-15*	L3A-25*
0.045" - 1/16"	Red	L4A-10**	L4A-15**	L4A-25**
5/64"	Blue	---	L6A-15	L6A-25
3/32"	Grey	---	L7A-15	L7A-25
7/64" - 1/8"	Black	---	L8A-15	L8A-25

* Standard liner for 0.035" & 0.045" Guns

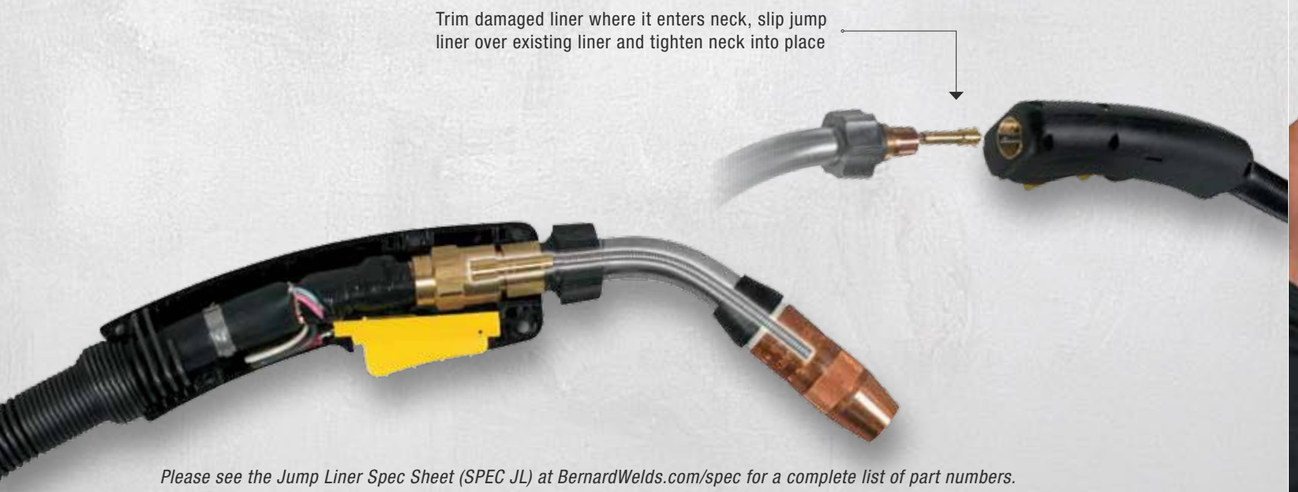
** Standard liner for 1/16" Guns

Please see the Universal Conventional Liner Spec Sheet (SPEC L) at BernardWelds.com/spec for a complete list of part numbers.

BERNARD JUMP LINER

VERY COST-EFFECTIVE AND GETS YOU BACK ON THE JOB WITHIN MINUTES!

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. Jump Liners are available in sizes to fit 0.023" to 1/16" wire.



Please see the Jump Liner Spec Sheet (SPEC JL) at BernardWelds.com/spec for a complete list of part numbers.

QUICK LOAD LINERS

WEBSITE QUICKLINK:
BernardWelds.com/QUICKLOAD

SAVE TIME AND MONEY BY LOADING YOUR LINERS FROM THE FRONT!

QUICK LOAD™ Liners require less than half the time and effort for installation when compared to conventional liners and are available in lengths up to 25'.

A QUICK LOAD Liner Retainer must be purchased separately and installed in the power pin on the first use of a QUICK LOAD Liner.

A quick installation is all it takes!

The two-piece system allows replacement to occur through the neck of the MIG gun while it remains attached to the feeder.

MAINTENANCE MADE EASY!

- No need to cut and waste wire!
- Avoid having to remove MIG gun from wire feeder
- For wire sizes from .023" to 3/32"
- Liners trimmed too long or too short can cause serious wire feeding issues. Be sure to use your liner gauge as instructed to trim the liner to the correct stick-out.

Please see the QUICK LOAD Liner Spec Sheet (SPEC TRG-QLL) at BernardWelds.com/spec for a complete list of part numbers.

QUICK LOAD LINER AUTOLENGTH SYSTEM

WEBSITE QUICKLINK:
BernardWelds.com/AutoLength

NEW TECHNOLOGY! A REVOLUTIONARY COMBINATION

The QUICK LOAD™ Liner AutoLength™ System is designed to minimize downtime, wire feeding and quality issues commonly associated with the liner being cut to an incorrect length. This new system is designed specifically for use with QUICK LOAD Liners.

PROBLEM: Wire feeding challenges caused by liners that are too short result in inefficiency of the welding process and undesirable downtime.

SOLUTION: A system upgrade to this new innovative product compensates for liners that are too short to help improve welding efficiency and reduce costly downtime.

- Allows for up to 1" (2.54 cm) forgiveness if the liner is too short
- Accommodates liner movement during welding
- Reduces issues caused by the liner being cut to an incorrect length
- Decreases burnbacks caused by misalignment between the liner and contact tip
- Improves wire feedability by enhancing wire alignment with the contact tip

WIRE SIZE	FEEDER	AUTOLENGTH PIN PART #	INTERCHANGEABLE WITH STANDARD POWER PIN	QUICK LOAD LINER PART #
0.035" - 0.045"	Miller®	214-81	214-1	415-35-25Q
	Miller	214-86	214-6-116	
	Tweco® #4	214-80	214	
	Tweco #5	214-812	214-12	
	Lincoln®	214-82	214-2	
	Euro	425-820	425-20	
0.052" - 1/16"	Miller	214-91	214-1	415-116-25Q
	Miller	214-96	214-6-332	
	Tweco #4	214-90	214	
	Tweco #5	214-912	214-12	
	Lincoln	214-92	214-2	
	Euro	425-920	425-20	

Please see the QUICK LOAD Liner and AutoLength Pins Spec Sheet (SPEC TRG-QLL) at BernardWelds.com/spec for a complete list of part numbers.

HOW DOES IT WORK?

Housed inside the power pin, this spring-loaded module applies constant pressure on the liner. This ensures that the liner remains seated properly in the retaining head and also allows for up to 1" forgiveness if the liner is cut too short.

NEW!

Check out our 3D Animation or watch a product demonstration at **YouTube.com/TregaskissWelds**

NEW UNIVERSAL POWER PINS

Connect your Bernard Semi-Automatic MIG Gun with wire feeders from most major manufacturers using our new Universal Power Pins. Please find your feeder brand and model in the chart below to select the right power pin for your MIG gun:

FEEDER BRAND	FEEDER MODEL	POWER PIN NAME
Miller®	All Miller Feeders* (*Except 10 series, 30 series, 35 series, 70 series, 80 series, Migman, and XRA)	Miller
	10 Series, 10E, 30 Series, 30A, 30B, 30E, 70 Series, 70A, 80 Series, 80A, MM10A, XRA	Bernard*
Lincoln®	Wirematic 250/255, SP series, IdealARC SP255, MIGPak10, MIGPak55, WeldPak100, PowerMIG series, PowerFeed 10M, PowerFeed 25M, DH-10, LF-72, LN-10, LN-15, LN-25 PRO, STT-10 (Note: When feeder equipped to accept Tweco #4 style pin)	Tweco #4 (Lincoln Lead)
	PowerMig 255 and 300, SP 170, Wirematic 250 and 255, WeldPack 100	Tweco #4 (Miller Lead)
	LN-7, LN-8, LN-9, LN-22, LN-23P, LN-25, Suitcase, LN-741, LN-742, Synergic 7	Lincoln
Hobart®	Ironman series	Miller
	Beta-MIG series, Digital 2000, Dual Digital, PortaFeed series, UltraFeed series, Handler	Tweco #4 (Standard Lead)
	200, 2400 (Large Pin)	Tweco #5 (Standard Lead)
OXO®	AVC-8Q, AVC-30Q	OXO
ESAB® NAS	MultiMaster 260, DuraDrive 4-30, DuraDrive 4-48	Tweco #4 (NAS Plug)
ESAB® Airco® L-Tec®	ME-2, MIGMaster series, DigiMIG Dual, DigiPlus, DigiPulse, DipStick 160, DipPak 250, DipPak 300, Med 20, Med 40, MIGhty, MIGhty 4 HD, MIGhty V, Universal V, MIG 2E, MIG 4HD	Euro
Thermal Arc®	210GM, 250GM, DIGITAL 2000, DUAL DIGITAL 2000, TAF-2, TAF-4	Tweco #4 (Standard Lead)
OTC®	CM-145, CM-146, CM-147, CM-231, CM-747, DynaAuto	Bernard*
	CMUS-511	Tweco #4 (Miller Lead)

** Please see the Power Pin Spec Sheet (SPEC PPK) at BernardWelds.com/spec for a complete list of part numbers. Please refer to the Bernard Quick Connect Feeder Spec Sheet for appropriate kit to adapt to your feeder model.*

If your feeder does not appear on the chart above, please contact Bernard Customer Service by email at cs@itwmig.com or by phone at 1-855-MIGWELD (644-9353). Brand and product names shown above are trademarks of their respective owners.

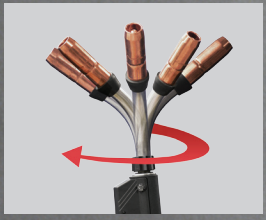
BERNARD™ AIR-COOLED SEMI-AUTOMATIC MIG GUNS — NEW! BEST OF THE BEST (BTB) PLATFORM

Our Most Flexible and Rugged MIG Gun Offering Ever!

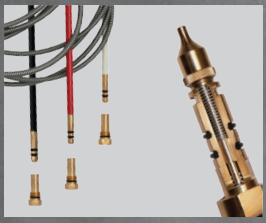
Build your ultimate MIG gun as you choose from an expanded list of the best features of our Q-Gun™, S-Gun™ and T-Gun™ Air-Cooled MIG Gun lines now consolidated for your convenience into a single gun line and single online configurator at **BernardWelds.com/ConfigureMyGun.**

Pick the consumables of your choice — TOUGH LOCK™, Centerfire™ and Quik Tip™ Consumables are now fully compatible with all curved and straight handle guns in the Best of the Best Platform.

Select from six handle styles — Bernard understands that welders have strong preferences when it comes to the handle shape and size of their gun. That's why we now allow you to pick from a wide selection of curved and straight handles when configuring your MIG gun.



Want to configure your straight handle gun with a rotatable neck? Now you can! Rotatable and fixed necks are now available on both curved and straight handle guns.



Want to configure your curved handle gun with the QUICK LOAD™ Liner or the QUICK LOAD™ Liner AutoLength™ System? You can do that too! Guns in the Best of the Best Platform can now be configured with your choice of QUICK LOAD Liner, QUICK LOAD Liner AutoLength System, or the NEW! Bernard Universal Conventional Liner.

Subject to Change — The information presented in this catalog is accurate to the best of our knowledge at the time of printing. Please visit BernardWelds.com for the most up-to-date information.

BERNARD™

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