

# MIG WELDING GUNS

**CONSUMABLES  
AND ROBOTIC  
PERIPHERALS**



# WHY BERNARD AND TREGASKISS?

## YOU ASK. WE LISTEN.

Your needs and challenges are something we listen closely to as we improve existing products and launch innovative yet practical new products. Recent examples include the Bernard® Clean Air E™ Fume Extraction MIG Gun and the Tregaskiss® Atlas™ Robotic ThruArm MIG Torch. (see pages 22 and 28 for more information)

## YOU NEED RELIABILITY. WE UNDERSTAND.

You need MIG guns, consumables, and welding products you can count on. They must be available when you need them and built to perform consistently. At Bernard, we design with simplicity, durability, and easy maintenance in mind, because your time is better spent welding.

## YOU WANT QUALITY. WE DELIVER.

You demand quality. That's non-negotiable. Our consumables are built to last, engineered for precision, and built to perform. Our MIG guns meet the same tough standards and are ready to run with most machines and robots on the market.

## YOUR NEEDS ARE UNIQUE. WE CONFIGURE.

No two jobs are the same, and your gear shouldn't be either. That's why our MIG guns are easy to configure to your specs. Choose the handle, neck, liner, and consumables that work for you. Get the setup that fits your workflow and doesn't slow you down.

## YOU EXPECT ONGOING SUPPORT. WE VALUE OUR PARTNERSHIP.

You need supplier partners who stand firmly behind their products. We support you long after the sale by offering you competitive warranties as well as technical support via phone and email, 24/7 online resources, and an extensive authorized partner network (see page 39 for more information).

### AUTOMOTIVE



### COMMERCIAL TRUCK & TRAILER



### CONSTRUCTION & INFRASTRUCTURE



### GENERAL MANUFACTURING & FABRICATION



### HEAVY EQUIPMENT



### MAINTENANCE, REPAIR AND OPERATIONS (MRO)



### OFFSHORE



### OIL AND GAS



### RAIL



### SHIP



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# MIG GUN CONSUMABLES OVERVIEW

Genuine Bernard and Tregaskiss consumables enhance the performance of your MIG welding gun. They are manufactured to the same durable, high-performance standards as every MIG welding product we build, and they deliver the improved performance you've come to know and expect from us.

## CONSUMABLES COMPARISON CHART

Features	AccuLock™ S	AccuLock™ R	Centerfire™
Copper contact tips	+	+	+
Chrome zirconium contact tip	+	+	—
HDP contact tips	—	+	—
Drop-in contact tip (no threads)	—	—	+
Coarse threaded contact tip prevents cross-threading	+	+	—
Cooling tail on contact tip	+	+	—
Threaded nozzles	+	+	+
Slip-on nozzles	+	+	—
Taper lock (tip to diffuser/head)	+	+	+
Taper lock (diffuser/head to neck)	+	+	+

## CONSUMABLES AND MIG GUN SERIES COMPATIBILITY CHART

Features	AccuLock™ S*	AccuLock™ R^	Centerfire™
Semi-Automatic Air-Cooled MIG Guns (starts on page 14)	+	+	+
Clean Air E Fume Extraction MIG Guns (page 22)	+	—	+
W-Gun Semi-Automatic Water-Cooled MIG Guns (page 24)	—	+	+
T-Gun Semi-Automatic Water-Cooled MIG Guns (page 24)	—	+	—
TA3 Robotic Air-Cooled MIG Torches (page 26)	—	+	—
ATLAS Robotic Air-Cooled MIG Torches (page 28)	—	+	—
CA3 Robotic Air-Cooled MIG Torches (page 30)	—	+	—
MA1 Fixed Automatic Air-Cooled MIG Torches (page 32)	—	+	—
MW1 Fixed Automatic Water-Cooled MIG Torches (page 33)	—	+	—
AW2 Fixed Automatic MIG Torches (page 33)	—	+	—
CA3 Robotic Air-Cooled MIG Torches (page 30)	—	+	+

\* FOR USE WITH FRONT LOAD LINERS  
 ^ FOR USE WITH QUICK LOAD LINERS

GUIDE: + Compatible  
 — Compatible but may require special parts (check spec sheet for details)

# AccuLock™ S CONSUMABLES

**LESS TROUBLE SHOOTING.  
LESS TIP CHANGES.**

**MORE PRODUCTS  
OUT THE DOOR.**



**Maximize productivity — reduce issues that lead to costly rework and downtime and increase the life of your consumables**

## **REDUCE ERRORS**

Error-proof liner trimming every time — no measuring required! Color match power pin cap washer to liner shrink tube to ensure compatibility.

## **INCREASE PRODUCTIVITY**

Eliminate welding liner misalignment and gaps from your troubleshooting list. Front load liners are locked and concentrically aligned to both the contact tip and the power pin to ensure optimized wire feeding.

## **LONGER CONTACT TIP LIFE**

Get more products out the door when you have fewer interruptions in your welding operation. 60% of the contact tip is buried within the diffuser away from the heat of the weld which contributes to 2–3x longer tip life.

The AccuLock S consumable system with front load liner requires the use of all the following MIG welding consumables and components:

- AccuLock contact tips
- AccuLock S nozzles
- AccuLock S neck
- AccuLock S gas diffusers
- Front load liners
- AccuLock S power pins and caps

FOR DETAILS ON THE ACCULOCK S CONSUMABLE SYSTEM PROVIDED WITH YOUR MILLER EQUIPMENT PACKAGE, SEE PAGE 6.

## **LOAD AND LOCK LINERS ACCURATELY AND EASILY**



### **FLAWLESS WIRE-FEED PATH**

The front load liner is locked and concentrically aligned to both the contact tip and power pin for optimized wire-feeding.

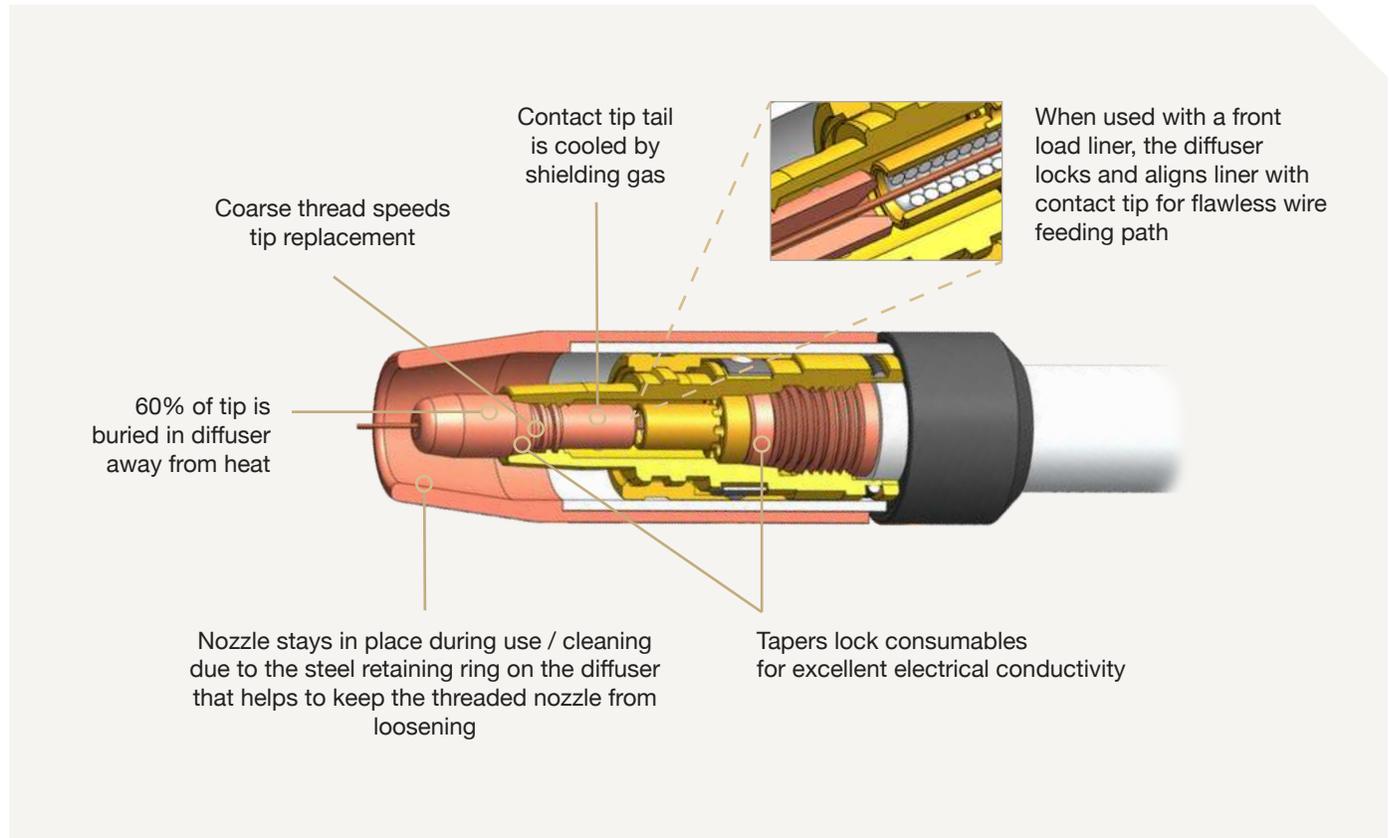
### **ERROR-PROOF REPLACEMENT**

With the front load liner system, the liner replacement process has been error-proofed. No more measuring means no more liners trimmed incorrectly!

Scan here for  
installation  
instructions



## KEY FEATURES



## COMMON CONTACT TIP

Bernard AccuLock S and Tregaskiss AccuLock R consumables share a common contact tip. If you have a combination of robotic, fixed automatic and semi-automatic guns in your facility, you'll benefit from the reduced costs and simplified inventory of using a consumable system with a common contact tip.



For a complete listing of AccuLock S power pin and power pin caps for Miller®, Lincoln®, Tweco® 4, Tweco 5, Euro and OXO™ scan for AccuLock S consumables spec sheet.



# AccuLock™ S CONSUMABLES

## ACCULOCK™ S CONSUMABLES IN MILLER® PACKAGES

AccuLock S consumables are now available on the Bernard MIG gun inside of the following Miller packages:

- Suitcase® 12RC
- ArcReach® SuitCase® 8
- and 12 (on Bernard BTB MIG guns only)
- Deltaweld® Systems
- XMT® 350 FieldPro™ Systems
- XMT® 450 Systems
- Continuum™ Systems
- 20 Series
- S-74 MPa Feeders
- Intellx® Wire Feeders
- Intellx® SwingArc®



**Deltaweld® 500 with Intellx™ Elite Feeder shown**

FOR MORE INFORMATION REFER TO THE FULL LINE MILLER CATALOG SPECIFIC TO YOUR MILLER PACKAGE

AccuLock S consumables supplied with Miller packages require the use of all the following MIG welding consumables and components:

- AccuLock contact tips
- AccuLock S diffusers for rear load liners
- AccuLock S nozzles
- Bernard rear load liners

To upgrade the gun that came with your Miller package to the full AccuLock S front load liner system it's as easy changing your diffuser, liner and power pin cap. Scan the QR code at right to learn more.

Scan here to learn how to upgrade a Bernard rear load liner to a front load liner with AccuLock consumables



## WHICH BERNARD SEMI-AUTOMATIC CONSUMABLES ARE RIGHT FOR YOUR WELDING OPERATION?



Features	AccuLock S Consumables Front Load Liner (See page 4)	AccuLock S Consumables Rear Load Liner (Miller Packages)	Centerfire Consumables (See page 11)
No liner measuring required during replacement	+ Added benefit of full system	—	—
Liner locked and concentrically aligned to both the contact tip and power pin to ensure optimized wire feeding	+ Added benefit of full system	—	—
Percentage of contact tip buried within diffuser away from the heat of the weld	60%	60%	25%
Mating tapers on both tip-to-diffuser and diffuser-to-neck connection for good electrical conductivity	+	+	+
Shielding gas cools contact tip tail	+	+	—
Contact tip with coarse thread and long tail to prevent cross-threading	+	+	No thread, no tail
Nozzle can be used as either thread-on or slip-on	+	+	—
Diffuser snap ring to prevent loosening of nozzle	+	+	—



**IT STARTS  
AT THE SOURCE™**

## SPECIFICATIONS

**APPLICATIONS**

- Heavy Equipment
- General Manufacturing & Fabrication
- Commercial Truck & Trailer
- Rail

**PROCESSES**

- MIG (GMAW) • Flux Cored (FCAW)

**RATED OUTPUT**

- 300A • 400A

**DUTY CYCLE**

- 60% with Mixed Gases

**CABLE LENGTH**

- 15' • 20' • 25'

**WIRE SIZE**

- 0.030" - 5/64" (0.06 mm – 2.0 mm)

# CLEAN AIR E™ MIG GUN

## A NEW STANDARD IN MIG WELDING FUME CAPTURE TECHNOLOGY

Experience high-efficiency fume extraction with ergonomics in mind. Designed for capture, comfort, and durability. Efficiently extract fume at the source, keeping your workspace cleaner for a more productive welding experience.

# AccuLock™ R CONSUMABLES

**LESS DOWNTIME.  
LESS TROUBLESHOOTING.  
MORE TIP LIFE.**



**LONGER LIFE** — Weld for longer between changeouts with contact tips that are designed to last — even when welding with aggressive pulse waveforms.

**DECREASED DOWNTIME** — Get more products out the door when you have fewer interruptions in your welding operation.

**EASE OF USE** — The advanced AccuLock system approach has virtually “fool-proofed” the consumable changeout process, reducing the likelihood for human error.

AccuLock R consumables for robotic MIG guns help ensure that your equipment continues to operate at its highest efficiency by reducing both planned and unplanned downtime in your operations. If you are looking for new ways to increase throughput with minimal risk and effort, it's time to take a fresh look at your MIG gun consumables.

**The AccuLock R consumables system requires the use of all of the following MIG welding consumables and components:**

- AccuLock contact tips
- AccuLock R gas diffusers
- Tregaskiss nozzles
- QUICK LOAD liners

## MAXIMIZE PERFORMANCE

- AccuLock contact tips last longer due to increased mass and 60% of the contact tip buried within the diffuser, away from the heat of the weld
- AccuLock HDP contact tips last 6-10x longer in pulse welding applications
- Mating tapers on both tip-to-diffuser and diffuser-to-neck connections provide good electrical conductivity
- For use with QUICK LOAD liners

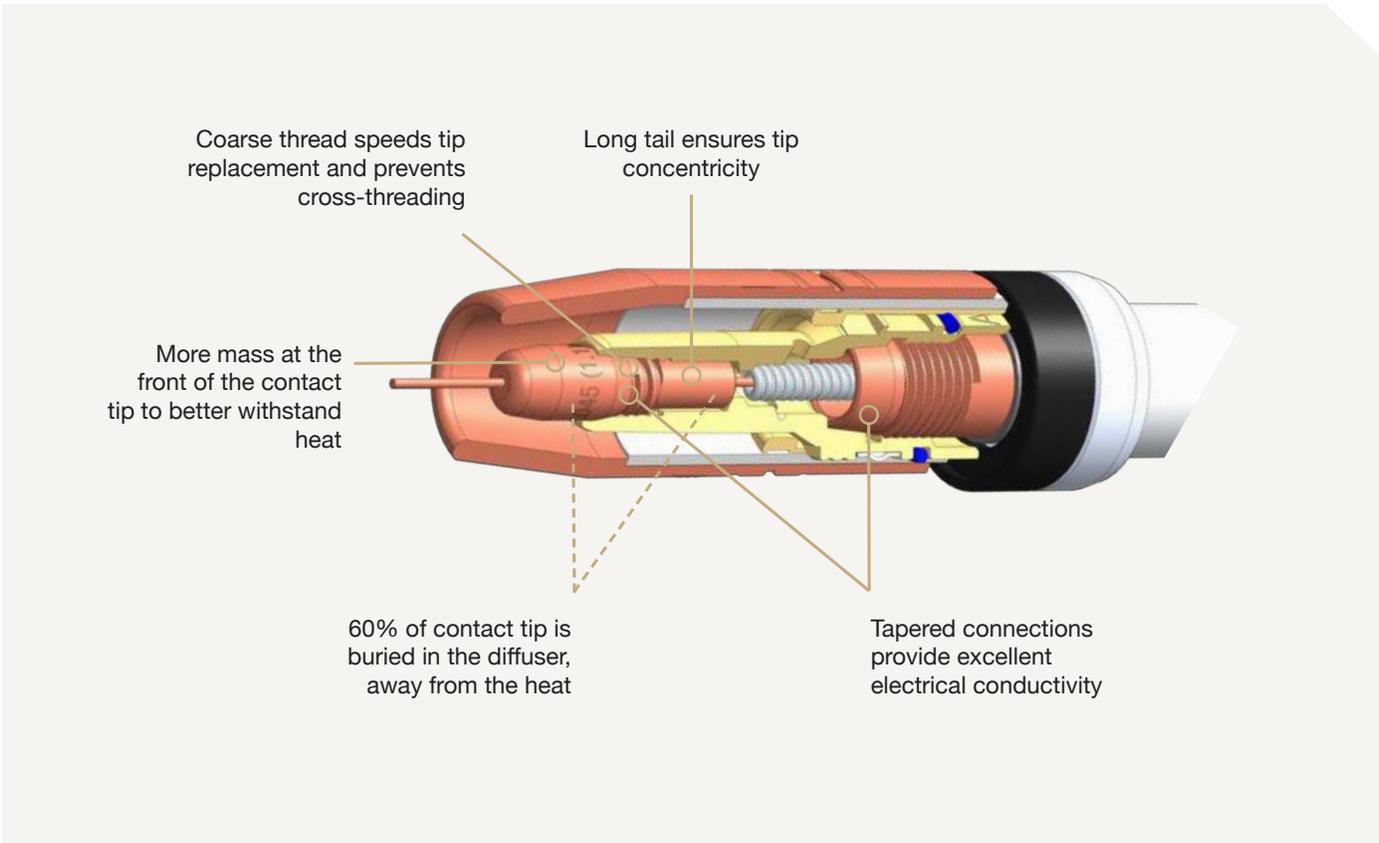
## MINIMIZE ERRORS

- Coarse thread on tip virtually eliminates risk of cross-threading during replacement
- Long contact tip tail concentrically aligns the tip within the diffuser prior to thread engagement, ensuring quick, accurate replacement without cross-threading

## SIMPLIFY MAINTENANCE

- QUICK LOAD liners install from the front of the MIG gun 50% faster than rear load liners
- No need to remove the gun from the feeder — operators can change liners from a safe zone in the robotic cell
- Direct replacement for TOUGH LOCK contact tips and retaining heads with no impact on TCP

# KEY FEATURES



# COMMON CONTACT TIP

Tregaskiss AccuLock R consumables and Bernard AccuLock S consumables share a common contact tip. If you have a combination of robotic, fixed automatic and semi-automatic guns in your facility, you'll benefit from the reduced costs and simplified inventory of using a consumable system with a common contact tip.



Scan here to view the AccuLock R consumables spec sheet



# AccuLock™ HDP CONTACT TIPS

**REGAIN  
AS MUCH  
AS 95%**

**OF LOST PRODUCTIVITY  
FOR CONTACT TIP  
CHANGES**



With the AccuLock HDP contact tip, you can enjoy all the benefits of pulse welding plus dramatically extend contact tip life for increased production throughput.

**LAST 6-10X LONGER** — Engineered with a special alloy that has superior resistance to arc erosion and wear over copper and chrome zirconium tips.

**INCREASED ARC STABILITY** — Improves weld quality and reduces spatter

## RESISTANCE TO WEAR

### C122 COPPER TIP

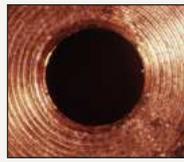


0 minutes  
arc on time

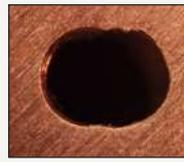


120 minutes  
arc on time

### CHROME ZIRCONIUM TIP

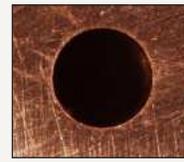


0 minutes  
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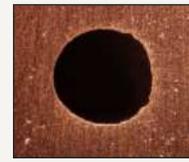


120 minutes  
arc on time

### HDP TIP



0 minutes  
arc on time



120 minutes  
arc on time

TEST PARAMETERS: 120 MINUTES ARC ON TIME (20 MIN X 6 CYCLES), HIGH SPEED PULSE WAVEFORM, ER70S3 .045" CU COATED SOLID WIRE FROM BULK PACKAGE (ER480S3 IN CANADA), 450 IPM WIRE FEED SPEED, 40-45 IPM TRAVEL SPEED, 90/10 MIXED GAS, 240-260 AVERAGE AMPS, TREGASKISS CA3 TORCH WITH 22 DEGREE NECK

### PROBLEM

Adoption of pulse welding waveforms can **DOUBLE** contact tip replacement frequency and related downtime when using copper or chrome zirconium contact tips. A single contact tip change can create **10-15 minutes** of downtime on average (based on user feedback).

### SOLUTION

AccuLock HDP contact tips **last 6-10x longer** than copper and chrome zirconium tips. Users have gone from changing contact tips 2-4x each shift to 1x after 3 shifts or longer. Plus, HDP contact tips are compatible with AccuLock R diffusers and Tregaskiss nozzles with no change to TCP!

### WELDING APPLICATION COMPATIBILITY

1. Are you running high frequency pulse welding?
2. Do you have solid copper-coated wires?
3. Is your wire size 0.035", 0.039", 0.045" or 0.052"?

If you answered **YES** to all three questions, then your system is compatible!

Scan here to view HDP contact tips in the AccuLock R consumables spec sheet



# CENTERFIRE™ CONSUMABLES

Centerfire consumables are easy to use and provide better arc starts, less spatter and more consistent welds. Centerfire consumables are ideal for heavy-duty and light commercial applications.

## CENTERFIRE™ HD CONSUMABLES



Looking for consumables for heavy-duty applications such as shipbuilding, fabrication and other heavy equipment manufacturing operations? Consider Bernard Centerfire HD series consumables. Centerfire HD 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.



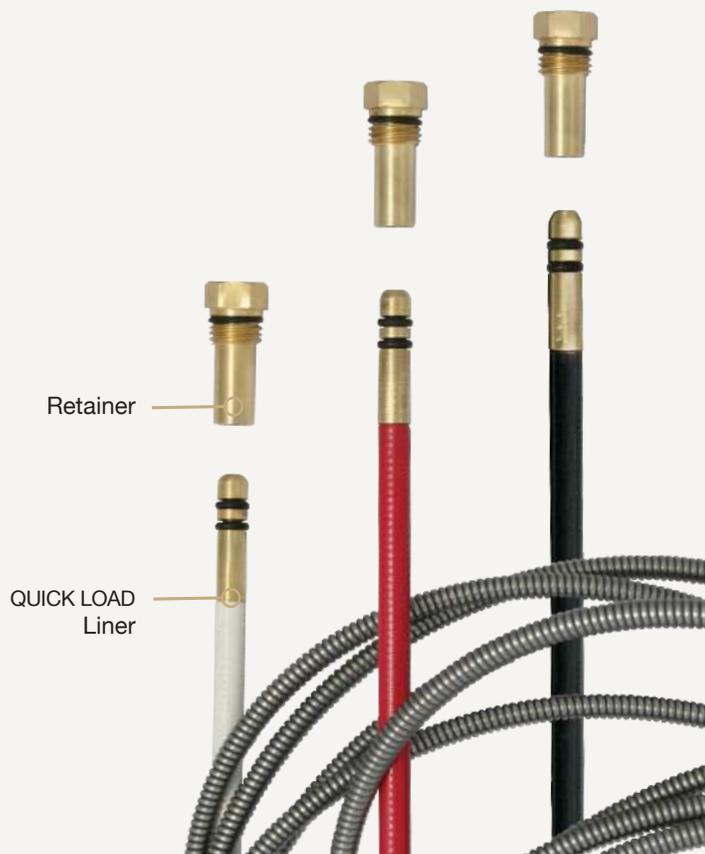
**ACCULOCK S CONSUMABLES ARE THE NEXT EVOLUTION OF CENTERFIRE CONSUMABLES AND OFFER ADDITIONAL BENEFITS**

(SEE PAGE 4 FOR MORE INFORMATION).

Scan here to view the Centerfire consumables spec sheet



# QUICK LOAD® LINERS



QUICK LOAD liners load from the front of the MIG gun and require **less than half the time and effort to replace** when compared with rear load liners.

A QUICK LOAD liner retainer must be purchased separately and installed inside the power pin on the first use of a QUICK LOAD liner. All future QUICK LOAD liner replacements will be done from the front of the MIG gun.

## QUICK INSTALLATION

- Remove front-end consumables and slide liner over the wire, using it as a guide
- Ease of installation simplifies routine maintenance
- No need to cut and waste wire!

## MAINTENANCE MADE EASY

- Avoid having to remove MIG gun from wire feeder
- Change liner from a safe zone within the robotic work cell during routine pauses in production
- No need to climb up to change liners in semi-automatic MIG guns connected to boom mounted feeders

## COMPATIBILITY

- The QUICK LOAD liner is an important component of the AccuLock R consumables system
- Available for Tregaskiss robotic air-cooled and automatic air-and water-cooled MIG guns

\*NOT RECOMMENDED FOR GUNS EQUIPPED WITH WIRE BRAKE;  
NOT COMPATIBLE WITH ROBOTIC WATER-COOLED OR AW2 FIXED  
AUTOMATIC WATER-COOLED MIG GUNS

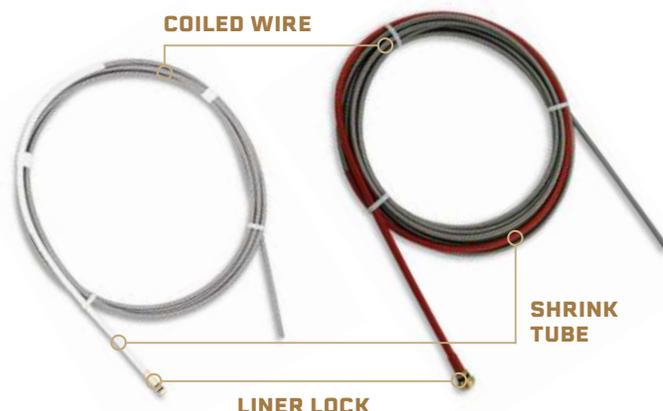
Scan here to view  
the QUICK LOAD liner  
spec sheet



## E-Z FEED™ LINERS

Part of the AccuLock S front load, Bernard rear load and QUICK LOAD liner families, E-Z Feed liners feature a special profile and a galvanized coating that improves wire feedability and protects the integrity of the wire material in humid or damp welding environments.

- Ideal for solid and cored wire
- Larger coil profile strengthens the rigidity of the line which improves wire support
- Fewer touch points during wire passage improves wire-feeding and minimizes gun chatter
- Available for 0.035"-1/16" wire sizes



# BERNARD® LINERS

## BERNARD® REAR LOAD LINERS

Bernard Rear Load liners compatible with 0.035"-1/16" wire feature E-Z Feed technology are compatible with all BTB, S-Gun and T-Gun water-cooled semi-automatic MIG guns, which allows you to simplify and reduce your inventory. Color-coded by wire size for ease of identification, these liners are available in lengths up to 25' (7.6 m) for various wire sizes.

Scan here to view  
the Bernard Rear Load  
liners spec sheet



## BERNARD® JUMP LINER

Trim damaged liner  
where it enters neck,  
slip jump liner over  
existing liner and  
tighten neck into place

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

Bernard 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 rear load liners at the base of the neck and run through the most commonly worn area up to the contact tip. For use with Bernard Rear Load liners and rotatable neck options, jump liners are available in sizes to fit 0.023" to 1/16" wire.

Scan here to view  
the Bernard Jump Liner spec sheet



# BERNARD® BTB AIR-COOLED MIG GUNS

OPTIMIZE FOR PRODUCTIVITY.

STANDARDIZE  
FOR SIMPLICITY.

B Series Curved Handle



According to the American Welding Society (AWS) the demand for welding professionals is projected to be 320,500 by 2029.

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.

## MULTIPLE HANDLE AND TRIGGER OPTIONS

- Choose between **five different curved and straight handle styles**
- Wide selection of handles and easy-to-change trigger options allow guns to be matched to user preference and welding application
- Triggers are designed and built to last more than one million cycles

*See page 16 for more information*



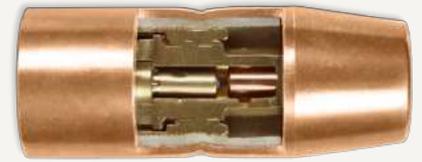
## LINER OPTIONS

- Front Load liners are locked and concentrically aligned to both the contact tip and the power pin  
*See page 4 for more information*
- Compatible with all BTB and Clean Air E fume extraction MIG guns, Bernard Rear Load liners allow you to simplify and reduce inventory.  
*See page 13 for more information*
- E-Z Feed liners  
*See page 12 for more information*

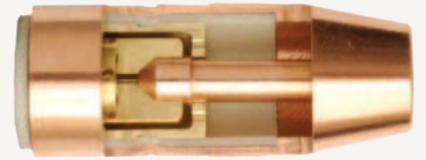
## HIGH PERFORMANCE CONSUMABLES

- Available with AccuLock S or Centerfire consumables

See page 4-11 for more information



AccuLock S Consumables Cutaway



Centerfire Consumables Cutaway

## 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 19 for more information

## INDUSTRIAL GRADE CABLE DESIGN

- Cone and cone nut threaded cable connections for optimal electrical conductivity
- Internal gas hose resists kinking for consistent gas flow
- Available in 10', 15', 20' and 25' cable lengths

T Series Straight Handle

## 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 Straight Handles and trigger switches

CONFIGURE ONLINE AT  
[bernardtregaskiss.com/  
configuremygun](http://bernardtregaskiss.com/configuremygun)

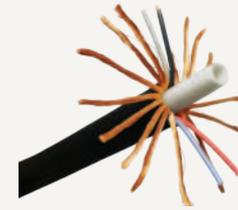


# BERNARD® AIR-COOLED BTB MIG GUNS

## GUN AMPERAGE RATINGS\*

Gun Model	60% Duty Cycle – Mixed Gases
Q20	200 amp
Q30	300 amp
Q40	400 amp
Q50	500 amp
Q60	600 amp

NOTE: \*RATINGS ARE BASED ON TESTS THAT COMPLY WITH IEC 60974-7 STANDARDS.



HYTREL® POLYMER CABLE  
(Industrial Grade)

## BTB MIG GUN HANDLE AND TRIGGER OPTIONS

Handle shape and size as well as trigger style can have a significant impact on welder ergonomics and overall comfort. Choose from one of the following seven handles and their respective trigger options:

Features	B Series Small Curved	B Series Curved	O Series Small Curved	T Series Small Straight	T Series Straight
					
Amperage	200, 300	400	200, 300, 400	200, 300	300, 400, 500, 600
Style	Curved	Curved	Curved	Straight	Straight
Neck	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	Standard Locking	Standard	Standard Locking Dual pull Dual schedule switch

# BERNARD® S-GUN™ AIR-COOLED MIG GUNS



## GUN AMPERAGE RATINGS\*

Gun Model	60% Duty Cycle Mixed Gases	Wire Size	Length
S250	250 amp	Up to 1/16"	15 ft., 20 ft., 25 ft.
S350	300 amp	Up to 5/64"	
S450	400 amp	Up to 5/64"	

\*RATINGS ARE BASED ON TESTS THAT COMPLY WITH IEC 60974-7 STANDARDS.

## HANDLE, TRIGGER AND NECK OPTIONS

Features	O Series Small Curved	T Series Straight
		
Model	S250, S350, S450	S250, S350, S450
Style	Curved	Straight
Neck	Fixed or rotatable	Fixed or rotatable
Trigger	Standard	Standard Locking

## DURABILITY. RELIABILITY. FEEDABILITY STEEL MONOCOIL MAKES THE DIFFERENCE.

The Bernard S-Gun MIG gun features a durable steel monocoil cable that resists pinching for consistent gas flow and provides superior performance in hard-to-feed applications. Available in 250, 300 and 400 amps, the S-Gun™ can be customized with two neck, handle, and trigger options, plus AccuLock S consumables, to fit your specific welding needs. This tailored configuration delivers enhanced comfort, productivity, and long-term value through simplified support and reduced total cost of ownership.



CONFIGURE ONLINE AT  
[bernardtregaskiss.com/  
configuremygun](http://bernardtregaskiss.com/configuremygun)



# BERNARD® TGX™ AIR-COOLED MIG GUNS



## CHOOSE YOUR PROGRAM.

## BUILD YOUR GUN.

Bernard TGX Semi-Automatic air-cooled MIG guns are perfect for low volume, light-to-medium duty welding. Featuring AccuLock S Consumables, TGX is a great solution for lower amperage welding applications and short arc-on times.

## EASY AS 1-2-3!

This program allows flexibility when building a TGX MIG Gun to meet your customer's needs in **Three Easy Steps.**

### 1. CHOOSE YOUR CHASSIS, AMPERAGE & GUN LENGTH

180 Amp	10' ,15'
260 Amp	

### 2. CHOOSE YOUR POWER PIN

- Miller
- Lincoln
- Tweco #4

### 3. CHOOSE YOUR WIRE SIZE

- 0.030"-0.035"
- 0.035"-0.045"

## READY TO WELD

This program offers pre-configured, factory assembled guns with all the components needed to start welding right **Out of The Box.**

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# ADDITIONAL ACCESSORIES

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 semi-automatic MIG gun:

Scan here to view the Specialty Necks spec sheet



<p><b>FLEX NECKS (BTB AND S-GUN MIG GUNS)</b></p>  <ul style="list-style-type: none"> <li>• Change, rotate or bend neck to desired angle without tools</li> <li>• Connection improves conductivity for better weld quality</li> <li>• Available in 6" and 8" lengths</li> </ul>	<p><b>Q-NECK COUPLER</b></p>  <ul style="list-style-type: none"> <li>• Designed to connect any two Q-Necks</li> <li>• Provides flexibility and cost savings while minimizing the need for special-order necks</li> <li>• Compatible with any rotatable neck</li> </ul>
<p><b>NECK GRIP FOR CURVED HANDLE MIG GUNS</b></p>  <ul style="list-style-type: none"> <li>• High-temperature rubber sleeve</li> <li>• Designed to reduce heat exposure and help operator hold neck in a steady position</li> <li>• Improves overall weld quality and reduces operator fatigue</li> </ul>	<p><b>NECK GRIP FOR STRAIGHT HANDLE MIG GUNS WITH FIXED NECKS</b></p>  <ul style="list-style-type: none"> <li>• Heavy-duty metal spring reduces heat exposure and helps operator hold neck in a steady position</li> <li>• Improves overall weld quality and reduces operator fatigue</li> </ul>

## HANG UP HOOK FOR MIG GUNS



- Conveniently hangs MIG gun while not in use
- Attaches to neck of air-cooled semi-automatic BTB MIG guns

# BERNARD® SHORTSTUB™ STICK ELECTRODE HOLDER

One of the first products Bernard ever introduced was the Shortstub stick electrode holder and it's still satisfying customers today.

- Electrode can be used within one inch of the high heat, high impact head, compared to the standard three inches of electrode leftover with typical tong-style holders
- Designed to greatly improve productivity with quick and easy electrode installation and replaceable head
- Over 2,000 lbs of gripping pressure allows the electrode to be bent to a desired shape for access to difficult welds



# BERNARD® IRONPRO™ SERIES



## IRONPRO™ SELF-SHIELDED FCAW GUNS

## THE NEXT GENERATION OF FLUX-CORED GUNS

Built to handle the toughest jobs, Bernard IronPro self-shielded flux-cored welding guns combine rugged durability with enhanced operator comfort. Engineered for demanding environments such as construction, shipbuilding, heavy manufacturing, and rental fleets, IronPro™ guns are designed to perform under pressure.

Non-metallic triggers help reduce heat transfer, while a sealed micro switch keeps out dust and debris for extended service life and reduced maintenance needs. Available in two amperage options, the IronPro™ series delivers reliable performance for high-output welding applications.

## EXPLORE THE FULL RANGE OF FEATURES

- AccuLock S contact tips increase consumable life with less tip changes, less troubleshooting and **keep you welding in tight positions longer!**
- Choose from **two neck sizes** for different length and bend radius
- Short handle provides **better maneuverability for improved joint access**
- Sealed trigger keeps the trigger area **slag and spatter free**, reducing maintenance downtime
- Optional heat shield to help **keep welders hands shielded from heat**
- Replaceable power cable liner allows **quick and easy power cable maintenance**
- Internal trigger leads mean **no trigger cord to get caught** on surrounding objects

### TWO THREAD-ON TIP INSULATOR OPTIONS

- Composite (left)
- Armored (right)

### TWO NECK SIZES

- Long, 45 °
- Short, 60 °

### OPTIONAL HEAT SHIELD

### SEALED TRIGGER

- Keeps trigger area slag & spatter free
- Reduces maintenance downtime

### SHORT HANDLE

- For excellent joint access and maneuverability



# BERNARD® CLEAN AIR E™ FUME EXTRACTION MIG GUNS

## PURPOSE— BUILT FOR THE DEMANDS OF INDUSTRIAL WELDING

Bernard Clean Air E fume extraction MIG guns captures welding fumes at the source, helping users maintain a compliant and a cleaner welding environment. Built with a robust, ergonomic design, these guns support extended use while minimizing operator fatigue and reducing downtime.

### EFFICIENT EXTRACTION

- Up to 95% source fume capture with improved weld visibility.

### ENHANCED ERGONOMICS

- Designed for comfort and reduced welder fatigue.

### ENGINEERED FOR ENDURANCE

- Built to last in the toughest environments.

Completely redesigned to closely match the weight, handle size, durability and industrial grade performance of Bernard BTB semi-automatic air-cooled MIG guns, this fume extraction gun was built with welder comfort and productivity in mind.

## FUME EXTRACTION, YOUR WAY

The Bernard Clean Air E is designed to connect with almost all fume extraction units. When paired with the Miller® Filtair®, it offers seamless compatibility and performance.

Trigger on top



Trigger on bottom



## CHOOSE THE SETUP THAT POWERS YOUR BEST PRODUCTIVITY



### MILLER® FILTAIR® 130

**BEST FOR:** Individual use in small to medium-sized workspaces.

**APPLICATIONS:** Ideal for portable use in confined spaces, such as workbaskets or areas where mobility is crucial.

- |                         |                            |
|-------------------------|----------------------------|
| • Highly portable       | • Filter service indicator |
| • Quiet operation       | • Particulate bin          |
| • MERV 15 filter rating | • Variable flow control    |



### MILLER® FILTAIR® 125

**BEST FOR:** Multiple users in larger, more demanding work environments.

**APPLICATIONS:** Suitable for manufacturing facilities and workshops with high fume extraction needs.

- |                         |                              |
|-------------------------|------------------------------|
| • Self-cleaning filter  | • Variable flow control      |
| • MERV 16 filter rating | • Particulate disposal bin   |
| • Filter cleaning gauge | • Auto start/stop (optional) |

# PRODUCT FEATURES

## ACCULOCK™ CONSUMABLES

AccuLock consumables provide reliable wire feeding, extended part life, and quick replacement, reducing downtime and simplifying inventory management.

## INTERCHANGEABLE FUME CAPTURE SHROUDS

Three length options help fine-tune extraction needs without sacrificing weld access or visibility.

## REINFORCED ALUMINUM NECK

Lightweight, black-finished aluminum increases durability and reduces glare for better visibility.

## FLOW ADJUSTMENT

Allows welders to reduce airflow by up to 10 cfm for tackling porosity issues while maintaining extraction.

## TWO HANDLE & TRIGGER STYLES

Options to match various hand sizes and grip preferences, boosting comfort and control.

## QUICK-ACCESS REAR STRAIN RELIEF

Slim brass components make hose replacement simpler and faster, reducing downtime.

## FLEXIBLE BALL SWIVEL

Adds up to 15° of movement in any direction for better ergonomics and reduced operator strain.



# BERNARD® WATER-COOLED MIG GUNS

## BERNARD® W-GUN™ SEMI-AUTOMATIC WATER-COOLED MIG GUNS



Bernard W-Gun water-cooled 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 consumables temperatures low under high-amperage, high-heat applications
- Compatible with AccuLock R or Centerfire consumables
- Available in 600 amp models

Scan here to view the W-Gun  
MIG Gun spec sheet



## BERNARD® T-GUN™ SEMI-AUTOMATIC WATER-COOLED MIG GUNS

- 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
- Compatible with AccuLock R or TOUGH LOCK consumables and QUIK LOAD liners
- Available in 400 amp (compact series handle), 450 and 600 amp models

Scan here to view  
the T-Gun MIG gun  
spec sheet



The Bernard T-Gun water-cooled MIG guns are engineered for superior performance in production environments requiring extremely high-heat applications. All guns are built to order.





# NEXT LEVEL

**PRECISION.  
UPTIME.  
EFFICIENCY.**

Building on the proven legacy of the **TREGASKISS® TA3** torch, Tregaskiss proudly introduces the next generation of robotic MIG welding technology.

- Cutting-Edge Weld Quality and TCP Repeatability
- Simplified maintenance and minimized downtime
- Improved OEE (Overall Equipment Effectiveness)

**BERNARDTREGASKISS.COM**

# TREGASKISS® TA3 ROBOTIC AIR-COOLED MIG TORCHES

**MAXIMIZE THROUGHPUT.**

**MINIMIZE COST.**

Designed with our unique and durable low-stress robotic (LSR+) uncable, fully configurable TA3 robotic air-cooled MIG torches feed through the robot arm and provide outstanding precision and reliability.

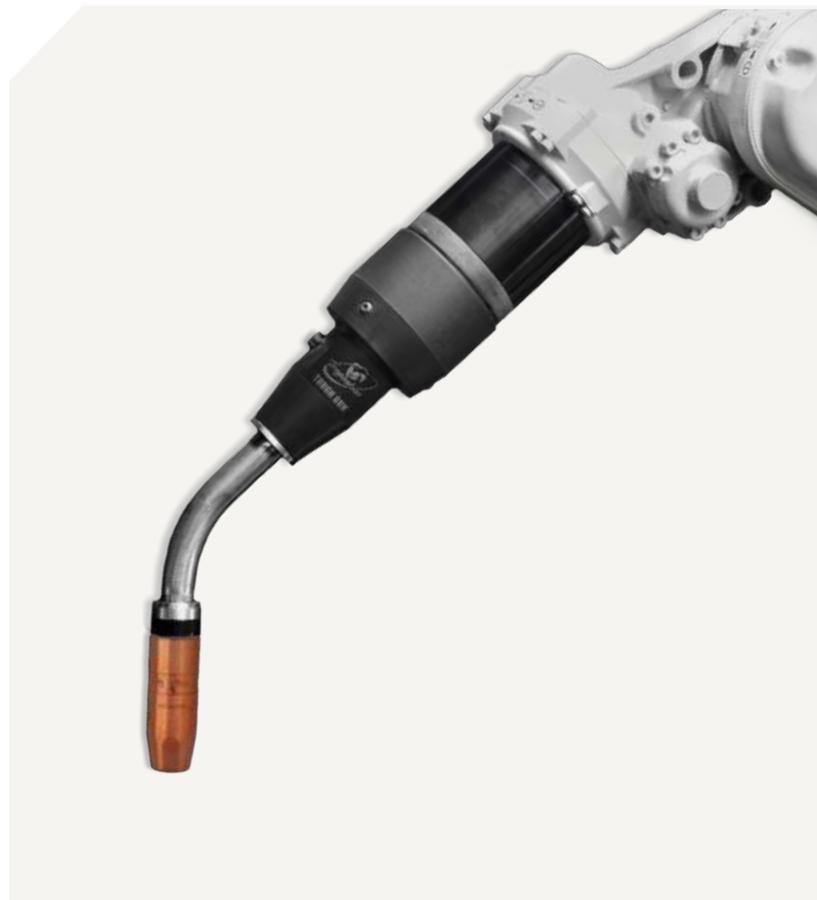
These high-performance MIG welding torches are available as a complete package – from the power pin to the contact tip – for clutch and solid mount systems, including Yaskawa® Motoman®, FANUC®, ABB®, KUKA®, OTC Daihen®, COMAU®, Panasonic® and Kawasaki®.

## FEATURES & BENEFITS

- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy
- Choose between a variety of standard necks for expanded tool center point options and variety of working envelopes
- Features a precision-engineered keyway system for accurate alignment and quick replacement
- LSR+ (Low-Stress Robotic) uncable with SmoothTurn™ technology maximizes production uptime (see page 27 for more details)

## THE CONSUMABLE ADVANTAGE

- AccuLock R consumables offer an enhanced contact tip-to-diffuser design which increases tip life, plus the coarse thread on the contact tip virtually eliminates cross-threading issues (see page 8 for more information)
- QUICK LOAD liners require less than half the time and effort to replace compared to rear load liners (see page 12 for more information)



## WARRANTY

- Air blast
- Wire brake
- Tregaskiss I.C.E. technology (see page 38 for more information) is available for select models

## AMPERAGE RATINGS\*

- 100%: 350 amps with Mixed Gases

\*GUN PERFORMANCE UNCHANGED.  
RATINGS ARE BASED ON TESTS THAT  
COMPLY WITH NEW 2013 IEC 60974-7 STANDARDS.

## IMPROVED

# LSR+ UNICABLE WITH SMOOTHTURN™ TECHNOLOGY

These newly improved LSR+ uncables incorporate new SmoothTurn technology to maximize production uptime.

Conventional style uncables typically come with a connection that limits rotational capabilities and produces torsional stress in the cable. Unlike conventional uncables, the LSR+ incorporates a rotating power connection that reduces this stress during rotation. Additionally, a protective external conduit contributes to cable longevity by shielding components from harsh welding environments.

### STRESS-RELIEVING FEATURES

- SmoothTurn technology reduces frictional forces on internal components increasing overall cable life up to 300%
- Enhanced electrical connections provide a more stable arc, resulting in less spatter and longer cable life
- Unique internal components improve support and bend radius of the cable during heavy robot articulation



Scan here to view the  
Tregaskiss TA3 MIG torch  
spec sheet



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# TREGASKISS® ATLAS™ ROBOTIC THRUARM AIR-COOLED MIG TORCH



## NEXT-LEVEL PRECISION, UPTIME, AND OVERALL EQUIPMENT EFFECTIVENESS.

The Tregaskiss Atlas Torch sets a new standard in robotic MIG welding, combining repeatable precision, maximized uptime, and superior efficiency. Engineered with durable components and designed for quick maintenance, it ensures reliable performance and protection of key parts in the toughest industrial environments.

### REPEATABLE PRECISION

- Delivers precise TCP repeatability, even after maintenance to ensure high quality welds.

### MAXIMIZE UPTIME

- Built to help you maximize uptime with fast simplified maintenance. Fewer tools, intuitive features, and durable components keep service quick and production moving.

### EFFICIENCY, ENGINEERED

- Atlas supports the Torch Maintenance Module for early cable service alerts. With quick-change components, it helps maximize efficiency and overall equipment effectiveness.

### LABOR FRIENDLY

- Features an intuitive design that cuts training time with fool proof maintenance processes to help avoid rework and costly downtime.

### INVESTMENT GUARD

- Atlas is built tough for harsh environments. With rugged construction and fully armored components, it protects fasteners from debris and spatter to extend torch life.



## OPTIONAL ADD-ON

### TORCH MAINTENANCE MODULE (TMM)

The Tregaskiss® Torch Maintenance Module (TMM) is an advanced robotic welding accessory seamlessly integrated into your robotic welding system. The TMM takes the guesswork out of cable maintenance by providing proactive alerts—so you can plan downtime before cable failure occurs.

The TMM features smart monitoring technology that detects early signs of cable failure. When it senses that a cable failure may be approaching, it provides an alert, allowing you to proactively schedule maintenance and avoid unexpected downtime.

# PRODUCT FEATURES



**1 TOOL**  
MAINTENANCE

**CAPTURED** FASTENERS  
**MINIMIZED** FASTENERS

**SEPARATED** ELECTRICAL  
AND MECHANICAL FUNCTIONS  
FOR ENSURED TCP  
REPEATABILITY

**COMPATIBLE**  
WITH THE TORCH  
MAINTENANCE MODULE

**INTUITIVE DESIGN**

**SEALED COVERS**  
FOR SPATTER AND  
DEBRIS PROTECTION

**ERROR RESISTANT NECK**  
AND CABLE INSTALLATION

**STAINLESS STEEL**  
DURABLE CONSTRUCTION

## THE CONSUMABLE ADVANTAGE

- AccuLock R consumables offer an enhanced contact tip-to-diffuser design which increases tip life, plus the coarse thread on the contact tip virtually eliminates cross-threading issues (see page 8 for more information)
- QUICK LOAD liners require less than half the time and effort to replace compared to rear load liners (see page 12 for more information)

Scan here to view the  
Tregaskiss Atlas MIG torch  
spec sheet



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# TREGASKISS® CA3 ROBOTIC AIR-COOLED AND COBOT MIG TORCHES

Designed for high-volume production environments, fully configurable Tregaskiss CA3 robotic air-cooled MIG torches are engineered for precision, durability, accuracy, repeatability, minimal downtime and fast and easy maintenance.

## FEATURES & BENEFITS

- Replaceable conventional unicable design offers extended service life and ease of serviceability
- Dual layer cable outer jacket, cable guide and increased copper content contribute to extended service life
- Durable neck clamp provides consistent clamping force for repeatability and TCP accuracy
- Many tool center point and working envelope options due to wide variety of standard necks and mounting arms
- Clutch and solid mount models available

## THE CONSUMABLE ADVANTAGE

- AccuLock R consumables offer an enhanced contact tip-to-diffuser design which increases tip life, plus the coarse thread on the contact tip virtually eliminates cross-threading issues (see page 8 for more information)
- QUICK LOAD liners require less than half the time and effort to replace compared to rear load liners (see page 12 for more information)



Scan here to view the  
Tregaskiss CA3 MIG torch  
spec sheet



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## AVAILABLE OPTIONS

- Air blast
- Wire brake
- Tregaskiss I.C.E. technology (see page 38 for more information)

## AMPERAGE RATINGS\*

- 100%: 350 amps with Mixed Gases

\*GUN PERFORMANCE UNCHANGED.  
RATINGS ARE BASED ON TESTS THAT  
COMPLY WITH NEW 2013 IEC 60974-7 STANDARDS.

# TREGASKISS® ROBOTIC PERIPHERALS

## CLAMPS AND MOUNTING ARMS

Tregaskiss clamps and mounting arms are made of tough yet resilient aluminum. These products are engineered to provide a robust and durable connection for the Tregaskiss CA3 robotic air-cooled MIG torch.



The **clutch clamp** triggers an emergency stop in the event of a robotic collision and its compact design allows for a larger working envelope. The **solid mount clamp** is available for clutchless models, offering the same increased working envelope.



For precision and repeatability, the **Tregaskiss mounting arm** features a positive-stop keyway that locates the key on the front housing body in the same position every time when components, or the entire MIG torch, is replaced.

## CLAMPS AND MOUNTING ARMS

For applications where verification of tooling is a requirement, the Tregaskiss neck checking fixture provides the opportunity to verify the accuracy of the neck to the intended tool center point (TCP). Further, an adjustment handle is provided to help implement minor adjustments if required.

## INSULATING DISCS



Tregaskiss insulating discs help protect your investment by insulating robots and their controllers from the weld currents. Discs are available with different bolt patterns for attaching Tregaskiss robotic MIG torches to various brands of robots.

## LEGACY TREGASKISS® CLUTCH



Compatible with legacy Tregaskiss G1 Series MIG torches, the original Tregaskiss clutch is designed to e-stop your robot with a deflection of only 1° in the event of a robotic collision.

## LEGACY TREGASKISS® SOLID ARM MOUNT



Made of high-strength aluminum, the Tregaskiss solid arm mount can replace a clutch on legacy Tregaskiss G1 Series systems using collision detection software.

- Accommodates a wide variety of standard necks
- Special kits are available for customized Tregaskiss necks



# TREGASKISS® FIXED AUTOMATIC MIG TORCHES

MA1 Fixed Automatic MIG Torch



MA1 Auto Head with Tregaskiss I.C.E. technology

MA1 Auto Head

**AccuLock™**  
CONSUMABLES

See pages 4-9

Tregaskiss fixed automatic MIG torches are engineered for hard tooling applications requiring a simple, durable and repeatable MIG torch. These automatic torches can be configured with the same consumables as your Bernard semi-automatic MIG guns or Tregaskiss robotic MIG torches to simplify your inventory.

Achieve maximum uptime and throughput. With the high-performance consumables, armored neck and body, and simple internal connections, these MIG torches are quick and easy to maintain. Available in both cable and cableless (also known as Auto Heads) 385 amp models.

## TREGASKISS® MA1 FIXED AUTOMATIC AIR-COOLED MIG TORCHES

- Features a spring-guard strain relief to prevent kinking and abrasion
- Air-cooled neck is made from aircraft-grade aluminum
- Compatible with Tregaskiss I.C.E. technology, which boosts the duty cycle (see page 38 for more information)

## TREGASKISS® AUTO HEAD FIXED AUTOMATIC AIR-COOLED MIG TORCHES

- Direct connection to the wire feeder
- Air-cooled neck is made from aircraft-grade aluminum
- Compatible with Tregaskiss I.C.E. technology, which boosts duty cycle (see page 38 for more information)

Scan here to view the MA1 MIG torch spec sheet



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AW2 Fixed Automatic  
MIG Torch

## TREGASKISS® MW1 FIXED AUTOMATIC WATER-COOLED MIG TORCHES

- These water-cooled MIG welding torches feature high-performance consumables, an armored neck and body, and simple internal connections which allow for quick and easy maintenance
- Available in 500 and 600 amp models
- Spring-guard strain relief prevents kinking and abrasion
- Water-cooled neck is made from stainless steel and is silver brazed and leak tested
- 600 amp water-cooled model has a thread-on heavy duty nozzle

## TREGASKISS® AW2 FIXED AUTOMATIC WATER-COOLED MIG TORCHES

Designed for dependable performance in high amperage, high temperature hard tooling welding applications. These guns feature a simple design with threaded connections and minimal number of replacement parts.

- Available in both cable and cableless 600 amp models
- Power cable equipped guns are available in lengths of 3 to 25 feet in 1/2-foot increments
- Internal threaded connections stay tight inside the anti-vibration compression fit body for good electrical connectivity and longer life

MW1 Fixed Automatic  
MIG Torch



Scan here to view  
the AW2 MIG torch  
spec sheet

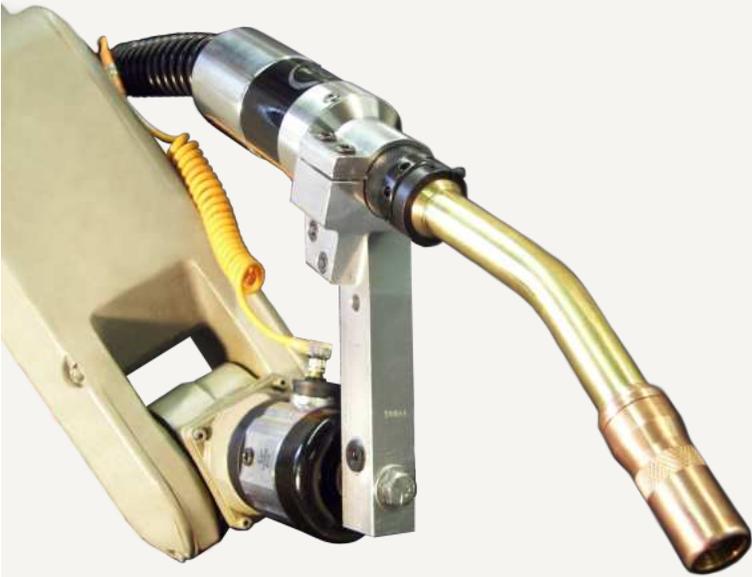


Scan here to view  
the MW1 MIG torch  
spec sheet

# TREGASKISS® ROBOTIC WATER-COOLED MIG TORCHES

**PERFORMANCE YOU CAN COUNT ON**

**IN THE TOUGHEST WELDING APPLICATIONS**



## TREGASKISS® 600 AMP ROBOTIC WATER-COOLED MIG TORCHES

The Tregaskiss 600 amp robotic water-cooled MIG torch is ready to take on your most demanding welding applications. Its robust design is tough and dependable enough to maximize productivity when welding thick plate or running prolonged duty cycles.

### ROBUST CONSTRUCTION

- Durable stainless steel docking body
- Quick-connects allow the cable to swivel and provide support for the liner, resulting in smooth, consistent wire feeding
- Maintenance-friendly features include accessible front housing, quick-change fittings and replaceable components

### ENHANCED PERFORMANCE

- Withstands the heat generated from welding thick plate or prolonged duty cycles
- Water-cooled power cable and neck keep front-end consumables running cool
- Neck features four cooling channels to optimize cooling efficiency

### THE CONSUMABLE ADVANTAGE

- AccuLock R consumables offer an enhanced contact-to-diffuser design which increases tip life, plus the coarse thread on the contact tip virtually eliminates cross threading issues (see page 8 for more information).

Scan here to view the Tregaskiss robotic water-cooled MIG torch spec sheet



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# TREGASKISS® TT4A AND TT4E

## REAMER NOZZLE CLEANING STATIONS

### POWER THROUGH THE TOUGHEST SPATTER FOR INCREASED UPTIME AND WELD QUALITY

The TT4 reamer is a robotic nozzle cleaning solution that maximizes uptime through superior cleaning performance, high durability components and features that allow quick and easy maintenance. You'll spend less time maintaining and troubleshooting your robotic welding equipment and more time getting product out the door!

Choose between the TT4A reamer (Analog model), or the TT4E reamer (Ethernet model) further enhanced with digital ethernet communication for better integration.

### NEW STANDARD FEATURES:

- Anti-spatter reservoir with tethered cap and increased fluid volume capacity
- Fluid level indicator sends a signal to the robot operator and the PLC/robot when the anti-spatter liquid is running low
- Dedicated motor lubricator maximizes performance and protects your robotic investment by extending the life of the motor
- Spray containment unit helps prevent air contamination, improving the air quality of the working environment and maintaining the cleanliness of the weld cell

### REDUCE DOWNTIME, SAFETY INCIDENTS AND COSTLY WELD DEFECTS RELATED TO ANTI-SPATTER

Automating spatter removal extends the life of your robotic MIG torch and consumables, benefiting your production uptime, throughput and your bottom line.

### PURCHASE WITH CONFIDENCE

Industry-leading 2-year warranty on all TT4 reamers, or extended 3-year warranty with exclusive use of TOUGH GARD anti-spatter liquid

Scan here to view  
the TT4A and TT4E reamer  
spec sheet



#### TREGASKISS TT4A AND TT4E REAMER SPECIFICATIONS

Rated Voltage	24VDC
Operating Voltage	± 10% of rated voltage
Power Requirements	Max. wattage in operation 5.3 W
Air Requirements (min.)	80 to 100 PSI (5.0 to 7.0 bar) at 16 CFM (7.5 L/s)
Air Motor (at min. air requirement)	Stall torque at 80 PSI (5.5 bar) = 83 in.-lbs (9.4 Nm)
Weight	≈ 50 lbs. (23 kg)*
Product Dimensions (L x W x H)	13.5" x 11.25" x 21.0" (343 mm x 286 mm x 534 mm)*
Compatible with:	Tregaskiss reamer stand (see page 36) TOUGH GARD multi-feed system (see page 37)

\*OPTIONAL FEATURES ARE SOLD SEPARATELY OR ADDED AS OPTIONS WHEN ORDERING, AND CAN CHANGE THE WEIGHT AND PHYSICAL DIMENSIONS OF THE PRODUCT.

# TREGASKISS® TT4A AND TT4E REAMER ACCESSORIES

## OPTIONAL ACCESSORIES

### WIRE CUTTER



The Tregaskiss wire cutter removes the ball-end of welding wire to ensure smooth arc starts and consistent wire stick-out. It handles a range of wire types — including stainless steel, aluminum, and flux-cored — in sizes up to 1/16". The unique carbide blade design features eight indexable cutting edges that are precision-ground to deliver long-lasting, cost-effective performance.

Designed for versatility, the wire cutter mounts directly to the top of TT4A and TT4E reamers or can be installed remotely for use with virtually any robotic welding system.

### V-BLOCKS



Compatible with Tregaskiss and most competitive consumables, these 4-sided v-blocks ensure your cutter is concentric with your consumables and your nozzle bore to guarantee the most effective ream. Choose from a wide variety of v-block options when configuring your new TT4A and TT4E reamer.

### REAMER SHROUDS



Shrouds are intended to encourage safe practices when the TT4 reamers are used in cobot welding applications where the operator could be near the reamer during operation.

**TT4-SHR**  
*Reamer shroud only,  
for TT4 reamer*

**WC-400-SHR**  
*Reamer shroud only, for wire cutter*

### NOZZLE DETECT



Nozzle detect for the TT4A and TT4E reamer uses a proximity sensor mounted on the side of the reamer that can be used independent of the ream cycle. The robot positions the front end of the MIG gun close to the sensor to detect the presence of the nozzle. If the nozzle is present, a signal is then sent back to the robot controller or PLC.

A nozzle detect system can help alert maintenance personnel that the nozzle is no longer present before a weld is attempted. This helps to reduce rework and scrap caused by welding without a nozzle.

### REPLACEMENT CUTTER BLADES



Designed for use with TT4A and TT4E reamer models, Tregaskiss cutter blades are engineered from harder, stronger material for enhanced performance and durability.

### FILTER REGULATOR



The filter/regulator unit from Tregaskiss is another recommended accessory that helps extend the life of your TT4A or TT4E reamer. The filter cleans the air supply to the reamer and restricts debris from reaching the motor, keeping it uncontaminated and ensuring maximum performance and longer life. The regulator works to ensure optical air pressure is achieved at the unit.

### TOUGH GUN® REAMER STAND



Tregaskiss provides a competitively priced, fixed height durable stand for all TT4 reamer models. Stands can be ordered in heights between 18 and 36 inches in 6 inch increments.

The stand's simple design facilitates quick and accurate reamer change-outs via the compatibility with the reamer quick-change base plate, and the standardized 8.5" x 6.5" hole pattern on the floor mounting plate allows stands to be easily swapped between stations.

# TOUGH GARD® ANTI-SPATTER LIQUID

TOUGH GARD anti-spatter liquid was developed to address the performance requirements of metal fabricators. TOUGH GARD anti-spatter liquid won't harm machinery, it cleans up easily with no residue and it's safe for the environment. Helping prevent spatter adhesion and extending the life of consumables, TOUGH GARD anti-spatter liquid reduces downtime thus lowering operating and maintenance costs.

## SUPERIOR PERFORMANCE

Tregaskiss R&D studies\* show that TOUGH GARD anti-spatter liquid outperforms other brands on the market (see Figure 1).



FIGURE 1  
\*RESULTS BASED ON CONTINUOUS GMAW – 6 MINUTES, 0.045" WIRE, E480S-6, 300A, AR-CO2 GAS MIX

PART #	PACKAGE SIZES
TG-101-14S	16.9 fl. oz. / 500 mL
TG-101-32SP	32 fl. oz. / 946 mL (spray bottle)
TG-101-01	1 U.S. Gallon / 3.78 L
TG-101-05	5.28 U.S. Gallon / 20 L
TG-101-55	55 U.S. Gallon / 208 L



## TOUGH GARD® MULTI-FEED SYSTEM

The TOUGH GARD multi-feed system for anti-spatter solution can connect up to ten TOUGH GUN TT4A or TT4E reamer stations. This system eliminates the need to refill anti-spatter reservoirs on a frequent basis, resulting in lower operating costs, reduced downtime and increased safety.

### TOUGH GARD MULTI-FEED SYSTEM

- TG-103-05-2 for 5 Gallon Pail (up to 2 Reamer Units)
- TG-103-05-10 for 5 Gallon Pail (up to 10 Reamer Units)
- TG-103-55-10 for 55 Gallon Drum (up to 10 Reamer Units)

### TOUGH GARD MULTI-FEED SYSTEM HOSE (sold separately)

- TG-103-100 100' Multi-Feed Hose (UV Rated)
- TG-103-200 200' Multi-Feed Hose (UV Rated)

FOR REPLACEMENT PARTS, SEE OM-MF OWNER'S MANUAL FOR MORE INFORMATION (AVAILABLE ONLINE AT [BERNARDTREGASKISS.COM/MANUALS](http://BERNARDTREGASKISS.COM/MANUALS)).



# TREGASKISS® I.C.E.™ TECHNOLOGY

Tregaskiss I.C.E. technology boosts the duty cycle of our already highly robust air-cooled Tregaskiss MIG torches by providing water-cooled benefits through our I.C.E. (Integrated Cooling Enhancer) component. This component circulates water at the nozzle, keeping front-end consumables running cooler and lasting longer.

Tregaskiss I.C.E. technology is an option for Tregaskiss robotic and 385 amp MA1 fixed automatic air-cooled MIG torches, resulting in a hybrid air- and water-cooled MIG torch solution (see pages 26–32 for more information).

## MAINTENANCE MADE EASY

- Air-cooled uncable runs independently of water lines
- All water-cooling components are external
- Shut-off valves are located at the I.C.E. connections

## COOLING

- Existing Tregaskiss robotic and 385 amp MA1 fixed automatic air-cooled MIG torches can be retrofit with Tregaskiss I.C.E. technology
- If water-cooling capability is lost, the original air-cooled product remains operational
- Cooler running front-end parts extend the life of consumables

## INCREASED SAFETY

- Water avoids contact with power leads and remains virtually uncontaminated, preventing water from becoming electrically charged
- Neck runs cooler than typical air-cooled products

## COMPATIBILITY & CONVENIENCE

- Compatible with the Tregaskiss TT4A and TT4E reamer (see page 35 for more information)
- Compatible with AccuLock R consumables (see page 8 for more information)



# SERVICE AND SUPPORT

In addition to the online tools and resources we provide that are available 24/7, more personal customer support is also available:

## CUSTOMER SERVICE

**PHONE: 1-855-MIGWELD (644-9353)**

**EMAIL: [cs@bernardtregaskiss.com](mailto:cs@bernardtregaskiss.com)**

Our Customer Service department can be reached by phone or email from 7:00 a.m. to 4:00 p.m. CST Monday through Friday to assist with:

- Manufacturer's Suggested Pricing and product availability
- Assistance with Product Configuration
- Replacement parts identification
- Answering consumables compatibility questions such as which diffuser/tip/nozzle is compatible with your MIG gun
- Warranty Claims

## YOUR WELDING DISTRIBUTOR

Your welding distributor is also a comprehensive resource for welding and cutting information and process or equipment troubleshooting. Distributors can help you choose the products and accessories that are right for you and your specific application. To locate a welding distributor in your area, visit the **WHERE TO BUY** link on our websites.

## TECHNICAL SUPPORT

**EMAIL: [tech.support@bernardtregaskiss.com](mailto:tech.support@bernardtregaskiss.com)**

Our Technical Service team is ready to answer your technical support questions from 7:00 a.m. to 4:00 p.m. CST Monday through Friday. Our Technical Service Team provides the following services to support customers both pre-and post-sale:

- Troubleshooting inquiries
- CAD model requests
- Training – product, maintenance, technical, etc.
- Consumable optimization
- Support with legacy product

We will respond to all questions as soon as possible, but please note that it could take up to 2 business days to response to CAD requests submitted via email. For troubleshooting inquiries, please provide photos to help our team resolve the inquiry.

# ONLINE RESOURCES

Visit us online for immediate access to the most up-to-date information. **[BERNARDTREGASKISS.COM](http://BERNARDTREGASKISS.COM)**

## VIDEOS

Discover customer testimonials, how-to demos, and product insights on our YouTube channel. Subscribe for expert tips and the latest updates!



## ONLINE PRODUCT CONFIGURATORS

Use our mobile-friendly online configurators to build the MIG gun or reamer part number you need, plus get access to additional resources and an expanded replacement parts list with diagram.

**[BERNARDTREGASKISS.COM/CONFIGUREMYGUN](http://BERNARDTREGASKISS.COM/CONFIGUREMYGUN)**

## CONNECT WITH US ONLINE

**Now on Instagram and TikTok!**

Join our online community for exclusive content, welding tips and more.



## AMPERAGE E-NEWSLETTER

This electronic publication from Bernard and Tregaskiss features informative articles on improving welding performance, product announcements, contests and more. Subscribe today!

**[BERNARDTREGASKISS.COM/AMPERAGE](http://BERNARDTREGASKISS.COM/AMPERAGE)**

## TECHNICAL ARTICLES

Whether you are new to welding or a seasoned professional, we have informative technical articles and case studies to help you get the most out of your applications.

**[BERNARDTREGASKISS.COM/ARTICLES](http://BERNARDTREGASKISS.COM/ARTICLES)**

## TECH CONNECTION PRODUCT NEWS

Your connection to Bernard and Tregaskiss product improvements, new product information and other product updates.

**[BERNARDTREGASKISS.COM/TECHCONNECTION](http://BERNARDTREGASKISS.COM/TECHCONNECTION)**

Automated welding applications require flexible, repeatable solutions that maximize production uptime and throughput while minimizing costs. This is why industrial manufacturers rely on Tregaskiss and its proven track record for delivering reliable and resilient robotic MIG welding torches, fixed automatic MIG torches, nozzle cleaning stations and innovative welding consumables.



## MAXIMIZING THROUGHPUT. MINIMIZING COSTS



## ENGINEERED FOR SIMPLICITY. BUILT FOR DURABILITY

Industrial semi-automatic welding operations benefit from welding products that are built to withstand the rigors of multi-shift use, high heat, and abusive environments. Long-lasting, easy to maintain Bernard semi-automatic MIG guns combined with AccuLock S consumables means more uptime, fewer errors and less troubleshooting for welders.



## THE TEAM BEHIND THE BRANDS

The shared team behind Tregaskiss and Bernard routinely listens and responds to the needs of our customers. Through the strength of our people and their dedication to practical product innovation, ISO production quality standards, and superior service and support, we strive to remain our customers' #1 choice.

### BERNARD

449 W Corning Rd  
Beecher, IL 60401 USA

### BERNARDTREGASKISS.COM

Toll Free (Canada & USA):  
1-855-MIGWELD (644-9353)

### TREGASKISS

2570 N Talbot Rd  
Windsor, ON NOR 1LO Canada