With over 20 years experience specializing in robotic MIG welding solutions, Tregaskiss engineers its "TOUGH GUN" welding products to ensure they are robust, resilient and repeatable in the TOUGHest automation applications of high volume production environments.

Tregaskiss set the bar with industry firsts such as built-to-order MIG guns, high-performance welding consumables, keyed alignment for robotic MIG gun systems, and other innovations that have become expected by customers and copied by the competition. More recent advances such as the front-loading QUICK LOAD™ Liner AutoLength™ System, SURESTART™ Contact Tips and quick-change Low-Stress Robotic (LSR) Unicables continue to address customer needs by providing increased uptime, ease of maintenance and maximizing throughput.

Utilizing a state-of-the-art R&D facility, Tregaskiss ensures the precision and reliability of all our products. Tregaskiss has the ability to react quickly to your needs with engineering, technical support and service, and will strive to continue to be our customers’ ‘n’ choice.

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

• Build your TOUGH GUN Robotic MIG Gun online at Tregaskiss.com/ConfigureMyGun
• Locate your nearest Authorized Tregaskiss Distributor
• Download product literature and technical documentation in PDF format

Have a question? Email us at info@tregaskiss.com

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Engineered for Reliability, Resiliency and Repeatability

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NEW! See page 17 for our expanded Consumables Reference Chart foldout!

Subject to Change – The information presented in this catalog is accurate to the best of our knowledge at the time of printing. Please visit Tregaskiss.com for the most up-to-date information.
Designed for high-volume production environments, fully configurable TOUGH GUN CA3 Robotic Air-Cooled MIG Guns are engineered for precision, durability, accuracy, repeatability, extended service life and ease of maintenance. The TOUGH GUN CA3 Robotic Air-Cooled MIG Guns combines the most valuable product features of our TOUGH GUN G1 and G2 Series platforms, along with performance improvements in our unicable technology that extends service life.

**FEATURES & BENEFITS**

- Replaceable conventional unicable design offers extended service life and ease of serviceability
- New dual layer cable outer jacket, re-engineered cable guide and increased copper content contribute to extended service life
- Re-engineered neck clamp improves durability and consistency of clamping force
- Additional standard necks and mounting arms expand the tool center point options and variety of working envelopes
- Replacement for TOUGH GUN G1 Series
- Clutch and Solid Mount models available

**THE CONSUMABLE ADVANTAGE**

- Innovative TOUGH LOCK™ Consumables provide the improved performance and reliability you need to maximize production and maximize down-time (see page 17 for more information)
- Compatible with TOUGH ACCESS™ Consumables for even greater accessibility (see page 16 for more information)
- QUICK LOAD™ Liners require less than half the time and effort to replace compared to conventional liners (see page 10 for more information)

**APPAREL DATASHEETS**

- 100% spool with Wind Gates
- Spool performance compared to spool size and material that can vary with other machine parameters.

**TOUGH GUN ROBOTIC PERIPHERALS**

**TOUGH GUN CLAMPS AND MOUNTING ARMS**

- TOUGH GUN™ Clamps and Mounting Arms are made of tough yet resilient aluminum. These products are engineered to provide a robust and durable connection for the TOUGH GUN CA3 Robotic Air-Cooled MIG Guns.
- The TOUGH GUN Clutch Clamp triggers an emergency stop in the event of a robotic collision and its new compact design allows for a larger working envelope. The TOUGH GUN Solid Mount Clamp is available for applications needing the same increased working envelope.
- Legacy TOUGH GUN Clutch
- Made of high-strength aluminum, the TOUGH GUN Solid Arm Mount can replace a clutch on legacy TOUGH GUN G1 Series systems using collision detection software.

**TOUGH GUN NECK CHECKING FIXTURES**

- For applications where verification of welding is a requirement, the TOUGH GUN Neck Checking Fixtures 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.
- Accommodates a wide variety of standard necks
- Special kits are available for customized Tregaskiss™ MIG Guns

**TOUGH GUN INSULATING DISCS**

- TOUGH GUN 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 TOUGH GUN Robotic MIG Guns to various brands of robots.

**LEGACY TOUGH GUN CLUTCH**

- Compatible with legacy TOUGH GUN G1 Series MIG Guns, the original TOUGH GUN Clutch is designed to stop your robot with a deflection of only 1° in the event of a robotic collision.

**LEGACY TOUGH GUN SOLID ARM MOUNT**

- Made of high-strength aluminum, the TOUGH GUN Solid Arm Mount can replace a clutch on an legacy TOUGH GUN G1 Series systems using collision detection software.

**TOUGH GUN INSULATING DISCS**

- 100% spool with Wind Gates
- Spool performance compared to spool size and material that can vary with other machine parameters.

**WEBSITE QUICK LINK**

- Tregaskiss.com/CA3

**CONFIGURE THIS PRODUCT ONLINE at**

- Tregaskiss.com/ConfigureMyGun or see page 4 for our hard copy configurator
### TOUGH GUN CA3 ROBOTIC AIR-COOLED MIG GUN CONFIGURATOR

Fully configurable, TOUGH GUN CA3 Robotic Air-Cooled MIG Guns are engineered for precision, durability, accuracy and repeatability and can withstand even the harshest welding environments.

#### Part Number Description

**Part Number Description**

- **RA 11 CA 1 A A 1 C D**

**Part Number Description**

<table>
<thead>
<tr>
<th>Wire Brake</th>
<th>No Option</th>
<th>Option A</th>
</tr>
</thead>
<tbody>
<tr>
<td>401-91-62</td>
<td>HD 5/8” Bore, 1/8” Stick Out - Long Taper</td>
<td></td>
</tr>
<tr>
<td>401-49-50</td>
<td>Bottleneck 1/2” Bore, Flush Tip Brass 0.938”</td>
<td></td>
</tr>
<tr>
<td>401-44-50</td>
<td>Bottleneck 1/2” Bore, 1/4” Stick Out Brass 0.938”</td>
<td></td>
</tr>
<tr>
<td>401-81-62</td>
<td>HD 5/8” Bore, 1/8” Stick Out - Long Taper Copper 1.062”</td>
<td></td>
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<tr>
<td>401-71-62</td>
<td>HD 5/8” Bore, 1/8” Recess - Long Taper</td>
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<tr>
<td>401-51-62</td>
<td>Bottleneck 5/8” Bore, Flush Tip Brass 1.062”</td>
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<tr>
<td>401-8-62</td>
<td>SD 5/8” Bore, 1/8” Stick Out - Short Taper Copper 0.938”</td>
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<tr>
<td>401-7-75</td>
<td>HD 3/4” Bore, 1/4” Recess Brass 1.106”</td>
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<tr>
<td>401-6-50</td>
<td>HD 1/2” Bore, 1/8” Recess - Long Taper Copper 1.062”</td>
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<td>401-5-62</td>
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<tr>
<td>401-6-62</td>
<td>HD 5/8” Bore, 1/8” Recess - Long Taper Copper 1.062”</td>
<td></td>
</tr>
</tbody>
</table>

**Slip-On Nozzles**

- (HD) for Thread-On Nozzles
- TOUGH LOCK™
- Heavy Duty (HD) Diffuser
- Standard Duty (SD)

**Power Feed**

- For use with Retaining Head/Contact Tip options
- Panasonic
- Lincoln
- Miller

**Auto/Length™** Power Feed

- For use with Retaining Head/Contact Tip options

**Cable Length**

- For use with Retaining Head/Contact Tip options
- 15 T
- 12 S
- 10 R
- 8.5 M
- 7.5 K
- 7.0 J
- 6.5 H
- 6.0 G
- 5.0 E
- 3.5 B
- 3.0 A
- 1.0 T

**Liner**

- For wire sizes between 0.030” and 0.045”
- X = “8” for wire sizes between 0.052” and 0.070”

**Control Cable Option**

- Not available for solid mount models

**Retaing Heads & Contact Tips**

- For use with Retaining Head/Contact Tip options

**Threads-On Nozzles**

- To use with Retaining Head/Contact Tip options
- 2 and 3

**FEEDER BRAND**

- #5 (External Gas Line)
- OTC Daihen (North America Style)
- Teco #5
- Teco #4
- Euro 425-X20E
- Miller (Short)
- Miller (Short Robotic)
- MTA (Short)

**Fronius**

- #5 (External Gas Line)
- OTC Daihen (Short Robotic)
- Teco #5
- Teco #4
- Euro 425-X20E
- Miller (Short)
- Miller (Short Robotic)
- MTA (Short)

**Feeder Brand**

- #5 (External Gas Line)
- OTC Daihen (North America Style)
- Teco #4
- Miller (Short Robotic)
- MTA (Short)
The TOUGH GUN TA3 Robotic Air-Cooled MIG Guns were designed with a unique and durable Low-Stress Robotic (LSR) Unicable exclusive to Tregaskiss that feeds through the arm of today’s new style through-arm robots and provides outstanding precision and reliability.

These high-performance MIG welding guns are available as a complete package – from the power pin to the contact tip – to achieve optimal performance in your existing robotic systems. Using the Tregaskiss exclusive LSR Unicable, TOUGH GUN TA3 Robotic Air-Cooled MIG Guns combine the most valuable product options of our TOUGH GUN ThruArm™ G1 and G2 Series platforms, along with new features that provide increased durability.

TOUGH GUN TA3 Robotic Air-Cooled MIG Guns combine the valuable product options of our TOUGH GUN ThruArm™ G1 and G2 Series platforms, along with new features that provide increased durability. These high-performance MIG welding guns are available as a complete package – from the power pin to the contact tip – to achieve optimal performance in your existing robotic systems.

The TOUGH Lock™ Consumable provides the improved performance and reliability you need to maximize productivity and minimize downtime (see page 17 for more information).

TOUGH GUN LSR Unicables incorporate unique features to prevent production downtime. Unlike conventional-style unicables, this product allows for stress-free rotation. It includes a rotating power connection and a protective conduit to shield the unicable components from harsh welding environments.

STRESS-RELIEVING FEATURES
• Unique design allows for stress-free rotation
• Limits the influence of torque and extends the usable life of the unicable

FEATURING THE TRENDS IN PRODUCTIVITY ONLINE at Tregaskiss.com/ConfigureMyGun or see page 8 for our hard copy configurator

• The QUICK LOAD Liner AutoLength™ System maintains consistent, even feeding and quality issues commonly associated with short liner length (see page 20 for more information)
TOUGH GUN TA3 ROBOTIC AIR-COOLED MIG GUN CONFIGURATOR

Ready to take on any challenge, TOUGH GUN® MIG Robotic Air-Cooled MIG Guns maximize down time and improve welding performance on today’s through-arms robotic welding systems.

### Gun Mounts and Options

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA1400M</td>
<td>Solid Mount + Air Blast</td>
<td>BC8</td>
</tr>
<tr>
<td>TA1500M</td>
<td>Solid Mount + Wire Brake</td>
<td>BC3</td>
</tr>
<tr>
<td>TA1600M</td>
<td>Clutch + Air Blast</td>
<td>BC6</td>
</tr>
<tr>
<td>TA1700M</td>
<td>Clutch + Wire Brake</td>
<td>BC4</td>
</tr>
</tbody>
</table>

### Contact Tips

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>TA1800M</td>
<td>Solid Mount</td>
<td>BC1</td>
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<tr>
<td>TA1900M</td>
<td>Clutch</td>
<td>BC2</td>
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</table>

### Wire Sizes

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>TA2000M</td>
<td>Clutch</td>
<td>BC5</td>
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### Power Pins

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>TA2100M</td>
<td>Solid Mount</td>
<td>BC7</td>
</tr>
<tr>
<td>TA2200M</td>
<td>Solid Mount</td>
<td>BC9</td>
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### Contact Tips

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
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<td>TA2300M</td>
<td>Solid Mount</td>
<td>BC10</td>
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<tr>
<td>TA2400M</td>
<td>Clutch</td>
<td>BC11</td>
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### Wire Sizes

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<tr>
<th>Model</th>
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<tr>
<td>TA2500M</td>
<td>Clutch</td>
<td>BC12</td>
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### Power Pins

<table>
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<th>Model</th>
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</thead>
<tbody>
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<td>TA2600M</td>
<td>Solid Mount</td>
<td>BC13</td>
</tr>
<tr>
<td>TA2700M</td>
<td>Solid Mount</td>
<td>BC14</td>
</tr>
</tbody>
</table>

### National®

- Model: TA1400N
- Model: TA1500N
- Model: TA1600N
- Model: TA1700N
- Model: TA1800N
- Model: TA1900N
- Model: TA2000N
- Model: TA2100N
- Model: TA2200N
- Model: TA2300N
- Model: TA2400N
- Model: TA2500N
- Model: TA2600N
- Model: TA2700N

### OTC Daihen®

- Model: EA1400N
- Model: EA1500N
- Model: EA1600N
- Model: EA1700N
- Model: EA1800N
- Model: EA1900N
- Model: EA2000N
- Model: EA2100N
- Model: EA2200N
- Model: EA2300N
- Model: EA2400N
- Model: EA2500N

### Motoman®

- Model: IRB1400ID
- Model: IRB1500ID
- Model: IRB1600ID
- Model: IRB1700ID
- Model: IRB1800ID
- Model: IRB1900ID
- Model: IRB2000ID
- Model: IRB2100ID
- Model: IRB2200ID
- Model: IRB2300ID
- Model: IRB2400ID

### Realtime®

- Model: TB 1800
- Model: TB 1900
- Model: TB 2000
- Model: TB 2100
- Model: TB 2200
- Model: TB 2300
- Model: TB 2400

### Fronius®

- Model: TM-1800
- Model: TM-1900
- Model: TM-2000
- Model: TM-2100
- Model: TM-2200
- Model: TM-2300
- Model: TM-2400

### Lincoln®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### Panasonic®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### Turbo®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### ABB®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### COMAU®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### KUKA®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### TECO®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### Smart®

- Model: EA 1400N
- Model: EA 1500N
- Model: EA 1600N
- Model: EA 1700N
- Model: EA 1800N
- Model: EA 1900N
- Model: EA 2000N
- Model: EA 2100N
- Model: EA 2200N
- Model: EA 2300N
- Model: EA 2400N

### FEEDER BRAND PART NUMBER

- Lincoln®
- OTC Daihen®
- Panasonic®
- TECO®
- Smart®

### Contact Tips

- 0.052" (1.3 mm)
- 0.045" (1.2 mm)
- 0.040" (1.0 mm)
- 0.030" (0.8 mm)
- 5/64" (2.0 mm)
- 3/64" (1.2 mm)

### Wire Size

- Copper 0.850"
- Copper 0.938"
- Copper 1.062"
- Copper 1.106"
**TOUGH GUN I.C.E. TECHNOLOGY**

TOUGH GUN I.C.E.™ Technology boosts the duty cycle of our already highly robust air-cooled TOUGH GUN™ MIG Guns 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.

TOUGH GUN I.C.E. Technology is an option for TOUGH GUN Robotic and Automatic Air-Cooled MIG Guns, resulting in a hybrid air- and water-cooled MIG gun solution.

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

**COOLING**
- Existing TOUGH GUN Robotic and Automatic Air-Cooled MIG Guns can be upgraded with TOUGH GUN I.C.E. Technology
- TOUGH GUN I.C.E. Technology boosts gun rating by 50 amps
- If water-cooling capability is lost, the original air-cooled product remains operational
- Cooler running front-end parts extend the life of consumables

**WEBSITE QUICK LINK:**
Tregaskiss.com/ICE

**TOUGH GUN AUTOMATIC MIG GUNS**

Designed for fixed tooling applications, all models of our TOUGH GUN™ Automatic MIG Guns (also known as TOUGH GUN Machine Torches) feature a strong, lightweight housing and a spring-guard strain relief to prevent kinking and abrasion. TOUGH GUN Automatic MIG Guns are available in several air- and water-cooled models, and air-cooled models are compatible with TOUGH GUN I.C.E.™ Technology which boosts the duty cycle by 50 amps (see page 10 for more information).

**THE CONSUMABLE ADVANTAGE**
- Innovative TOUGH LOCK™ Consumables provide the improved performance and reliability you need to maximize production and minimize costly downtime (see page 17 for more information).

**AMPERAGE RATINGS***
- 500 amp Air-Cooled – 100%: 300 amps with Mixed Gases
- 600 amp Air-Cooled – 100%: 385 amps with Mixed Gases
- 450 amp Water-Cooled – 100%: 450 amps with Mixed Gases
- 600 amp Water-Cooled – 100%: 600 amps with Mixed Gases

*Gun performance unchanged. Ratings are based on tests that comply with new 2013 EC 60974-7 standards.

**WEBSITE QUICK LINK:**
Tregaskiss.com/Automatic

**TOUGH GUN AUTO HEADS**

The TOUGH GUN Auto Head is designed for direct connection to a wire feeder in automatic applications, and incorporates the same robust features as our popular TOUGH GUN Automatic MIG Guns. TOUGH GUN Auto Heads are available in air-cooled models and models enhanced with TOUGH GUN I.C.E. Technology.
Introducing the next evolution of the TOUGH GUN™ Reamer from Tregaskiss. Improvements to the spayr system, new plug and play replacement parts, and simplified internal wiring make this new reamer more reliable and faster and easier to maintain than ever before!

MORE RELIABLE & EASIER TO MAINTAIN THAN EVER BEFORE!

Introducing the next evolution of the TOUGH GUN™ Reamer from Tregaskiss. Improvements to the spayr system, new plug and play replacement parts, and simplified internal wiring make this new reamer more reliable and faster and easier to maintain than ever before!

SAFE AND ACCURATE SETUP
- Expanded setup switches allow independent operation of the spayr, clamp and spindle during manual setup
- Cutter blade lifts into place but does not spin when activated by the spindle setup switch

ENHANCED RELIABILITY
- All pneumatic valves are internally mounted
- External setup switches are protected and seals protect points of entry

WHAT'S NEW?
- Sprayer reservoir is located on opposite side of the unit as an additional safeguard against overfilling / leakage onto internal electronics
- Plug and play replacement parts with smart-keyed connections for ease of assembly and quick in-cell troubleshooting
- Simplification of internal wiring via a centralized terminal strip
- Sprayer comes standard

W EBSITE QUICK LIN K:
Tregaskiss.com/ReamerTT3

Please see the TOUGH GUN TT3 Reamer Technical Guide (M08 6) at Tregaskiss.com/manuals for a complete list of parts and ordering information.

LUBRICATOR

This dedicated motor lubricator maximizes performance and protects your TOUGH GUN™ Reamer investment by extending the life of the motor, and is highly recommended for use in dusty and moisture rich environments. Factory set for optimal pneumatic oil lubrication, the lubricator is available as an option when configuring your new unit or is retrofittable to your existing TOUGH GUN TT3 Reamer.

"NEW! Ordering your new TOUGH GUN Reamer with the lubricator option increases your warranty from 1 year to 3 years.

FILTER / REGULATOR

The Filter/Regulator unit from Tregaskiss is another recommended accessory that helps extend the life of your TOUGH GUN 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, while the regulator works to ensure optimal air pressure is achieved at the unit.

SPRAY CONTAINMENT

The innovative Spray Containment unit from Tregaskiss helps prevent air contamination by collecting anti-spatter overspray in its sealed basin, improving the air quality of the working environment and maintaining the cleanliness of the weld cell. The collected anti-spatter is then channeled away from the Spray Containment unit to a convenient point of disposal which can be shared among several Spray Containment units via an optional manifold.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>±10% of rated voltage</td>
</tr>
<tr>
<td>Power Consumption Max. wattage in operation</td>
<td>5.3 W</td>
</tr>
<tr>
<td>Air Requirements</td>
<td>(minimum) 80 to 100 PSI (5.0 to 7.0 bar) at 16 CFM (7.5 L/s)</td>
</tr>
<tr>
<td>Air Motor Stall Torque at 80 psi (5.5 bar)</td>
<td>83 in.-lbs. (9.4 N m )</td>
</tr>
<tr>
<td>Weight</td>
<td>~50 lbs. (23 kg)*</td>
</tr>
<tr>
<td>Product Dimensions</td>
<td>13.5&quot; x 11.25&quot; x 21&quot; (343 x 286 x 534 mm)*</td>
</tr>
</tbody>
</table>

*The optional features are sold separately or added as options when ordering, and can change the weight and physical dimensions of the product.

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**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, it’s safe to use 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).

*Results based on continuous GMAW – 6 minutes, 0.045” wire, E48 OS-6, 300A, Ar-CO2 gas mix

**WEBSITE QUICK LINK:**

Tregaskiss.com/TOUGHGARD

**TOUGH GARD Multi-Feed System**

The TOUGH GARD Multi-Feed System for anti-spatter solution can connect up to ten TOUGH GUN TT3 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.

**FEATURES & BENEFITS**

- Twin flute design for improved cutting and cleaning performance
- Harder material with stronger cutting edge
- Increased resistance against breaking, snapping, chipping or cracking
- Improved dimensional accuracy
- More economical competitive pricing
- Designed to be the perfect fit for TOUGH LOCK™ Consumables

**WEBSITE QUICK LINK:**

Tregaskiss.com/MultiFeed

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**TOUGH WIRE CUTTER**

The TOUGH GUN™ Wire Cutter removes the ball-end of the welding wire to provide smooth arc starts and consistent wire stick-out. The TOUGH GUN Wire Cutter easily cuts a range of wire types from thin work steel to aluminum to fine core-in wires down to 1/16”.

Our unique cut-off blade design provides eight indexable cutting surfaces that ensure low cost operations over the long haul and are precision-ground to outlast other wire cutters.

The TOUGH GUN Wire Cutter is the perfect complement to your TOUGH GUN TT3 Reamer and means directly drops the cost. It can also be easily mounted in a remote location which allows it to be used with virtually any robotic welding equipment.

**REPLACEMENT TREGASKISS CUTTER BLADES**

**IMPROVED PERFORMANCE. COMPETITIVE NEW PRICING.**

Tregaskiss is pleased to announce improvements to the design of our cutter blades for use with the TOUGH GUN TT3 Reamer Robotic Nozzle Cleaning Stations. These new cutter blades are engineered from harder, stronger material for enhanced performance and durability.

**FEATURES & BENEFITS**

- Twin flute design for improved cutting and cleaning performance
- Harder material with stronger cutting edge
- Increased resistance against breaking, snapping, chipping or cracking
- Improved dimensional accuracy
- More economical competitive pricing
- Designed to be the perfect fit for TOUGH LOCK™ Consumables

**WEBSITE QUICK LINK:**

Tregaskiss.com/CutterBlades

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**TREGASKISS 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 five available V-Block options when configuring your new TOUGH GUN TT3 Reamer.

**WEBSITE QUICK LINK:**

Tregaskiss.com/VBlocks
TOUGH ACCESS CONSUMABLES

WORRIED ABOUT FITTING IN?
TOUGH ACCESS® Consumables from Tregaskiss are our latest line of consumables.
They allow entry into those hard-to-reach places that would otherwise be inaccessible
due to complex fixture or weldment design.

Available in straight bore (1/2") and bottleneck (1/2") style nozzles, these unique
consumables are compatible with our TOUGH LOCK™ Contact Tips and existing
aluminum armored cables.

COMPATIBILITY & CONVENIENCE
• Compatible with existing TOUGH GUN™ Necks and TOUGH LOCK Contact Tips
• Compatible with the TOUGH GUN TT1000 when using the appropriate
cutter blade

WEBSITE QUICK LINK:
Tregaskiss.com/TOUGHACCESS

SURESTART CONTACT TIPS

REDUCE ARC START FAILURES BY UP TO 50%*
SURESTART™ Contact Tips are designed to reduce arc start failures that can lead to costly
downtime and expensive rework in robotic welding applications. According to field trials and R&D lab tests, SURESTART™ Contact Tips reduce arc start failures by
up to 50% and help prevent early, unexpected burn backs, and are especially beneficial for applications with a high volume
of loading and short welds using solid wire in Constant Voltage (CV) welding modes.

IMPROVED PERFORMANCE
• Reduce arc start failures by up to 50%*
• Prevent early, unexpected burn backs
• Ideal for applications with a high volume of loading and short welds using solid wire in CV mode

UNIQUE BLISTER PACKAGING
• Offers protection from harmful welding environments
• Can be easily stocked in facility receiving machines

Available in packages of 20

WEBSITE QUICK LINK:
Tregaskiss.com/SURESTART

SURESTART Contact Tips

Please see the SURESTART Contact Tips Spec Sheet (SPEC TRG-SSC) at Tregaskiss.com/SURESTART

*Recommended a 1/8" or larger bore if you are reaming.

AUTOMATION TOUGH LOCK CONSUMABLE SERIES REFERENCE CHART

This chart provides technical and a compatibility reference for our most popular nozzle, retaining heads and contact tips for Automation. If this consumable pair is not in this chart, you can learn about additional welding consumable options by contacting Tregaskiss Technical Services by email at technicalservices@tregaskiss.com or by phone at 1-800-WEARWELD (944-9353).

Please see the TOUGH ACCESS Consumable Spec Sheet (SPEC TRG-TAC) at Tregaskiss.com/TOUGHACCESS

TREGASKISS CORPORATION

1505 W. 88TH STREET
IN TRAFFIC CITY, INDIANA 46210
http://www.tregaskiss.com
1-800-WEARWELD (944-9353)
**Tough Lock Consumables**

- Streamline your inventory by standardizing on a single brand of high performance MIG welding consumables.
- Reduce your inventory.
- Enjoy all the features and benefits of the TOUGH LOCK™ Consumable Series.

**REDUCE YOUR INVENTORY AND MINIMIZE DOWN TIME TODAY!**

Streamline your inventory by standardizing on a single brand of high performance MIG welding consumables. Using our line of Tough Lock Consumables parts, you can allow you to remove an entire brand of consumables from your inventory.

**FEATURES & BENEFITS**

- One size of consumables for all your MIG guns regardless of brand
- Reduce your inventory
- Enjoy all the features and benefits of the TOUGH LOCK™ Consumable Series

**.quick load liners**

Tregaskiss.com/QUICKLOAD

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

**Conversion from conventional consumables couldn’t be easier!**

The QUICK LOAD™ Line System from Tregaskiss lets you remove the quick load liners from the front of the MIG gun and slide a new liner in within seconds. In the time it takes to remove the old liner, your torch is ready to weld. Attaching liners from Tregaskiss can be a significant money saver. For a complete list of QUICK LOAD Liners below, along with their equivalent Tregaskiss Conventional Liner for easy conversion.

**Reducer**

TOUGHLock Retaining Heads are manufactured with a tapered design at both ends that help to keep consumables locked from tip to neck for improved weld consistency and to maintain head retention.

TOUGH Lock Consumables with Dual Taper Technology keep consumables running cooler for longer life and maximum performance.

**IMPROVED PERFORMANCE**

- Locks your 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.
- Easier contact tip removal and replacement when retaining head remains locked to the neck.

**WEBSITE QUICK LINK:**

Tregaskiss.com/TOUGHLock

Please see the TOUGH LOCK Consumables and Conversion Series Spec Sheet (SPEC TRG-TLC) at Tregaskiss.com/spec for a complete list of part numbers.

**New!! See inside for our expanded Consumables Reference Chart!**

**Quick Load Liners**

Available for Bernard™, Binzel®, Lincoln®, and Tweco® style MIG guns.

- Save money by replacing your liners in half the time!

The Quick Load™ Line System from Tregaskiss lets you remove the quick load liners from the front of the MIG gun and slide a new liner in within seconds. In the time it takes to remove the old liner, your torch is ready to weld. Attaching liners from Tregaskiss can be a significant money saver. For a complete list of QUICK LOAD Liners below, along with their equivalent Tregaskiss Conventional Liner for easy conversion.

**WEBSITE QUICK LINK:**

Tregaskiss.com/QUICKLOAD

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

**Conversion liners**

Tregaskiss®’s Conventional Liners for MIG welding guns are made of high carbon music wire that is uniformly wound and long life and are available in lengths of up to 15 feet for robotic applications. Liners thread in from the rear of the gun with no need for set screws.

**WEBSITE QUICK LINK:**

Tregaskiss.com/CONVERSION

Please visit the Tregaskiss Conventional LINERS Spec Sheet (SPEC TRG-CVL) at Tregaskiss.com/spec for a complete list of part numbers.

**Quick load liners**

- Reduce your inventory by standardizing on a single brand of high performance MIG welding consumables.
- Reduce your inventory.
- Enjoy all the features and benefits of the TOUGH LOCK™ Consumable Series.

**WEBSITE QUICK LINK:**

Tregaskiss.com/TOUGHLock

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Tregaskiss.com/QUICKLOAD

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**WEBSITE QUICK LINK:**

Tregaskiss.com/TOUGHLock

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Tregaskiss.com/TOUGHLock

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**WEBSITE QUICK LINK:**

Tregaskiss.com/QUICKLOAD

Please visit the QUICK LOAD Liners and AutoLength Pins Spec Sheet (SPEC TRG-QLL) at Tregaskiss.com/spec for a complete list of part numbers.
QUICK LOAD LINER AUTOLENGTH SYSTEM

NEW TECHNOLOGY!

The QUICK LOAD™ Liner AutoLength™ System is designed to eliminate downtime, wire feeding and quality issues commonly associated with short liner length. This new system is designed specifically for use with QUICK LOAD™ Liners. Short liners are a common root cause of poor wire feeding. A short liner does not have a chance of properly seating in the retaining head—often resulting in “welding” of the welding wires or premature contact tip failure and wear.

HOW IT WORKS

• housed inside the power pin, this spring-loaded module applies constant forward pressure on the liner keeping it seated properly in the retaining head
• Liner portion feeds from the front—No need to cut and waste wire!
• Allows for up to one-inch forgiveness if the liner is too short

INCREASED PRODUCTIVITY

• Reduces issues caused by incorrect liner length
• Designed specifically for use with QUICK LOAD™ Liners

DESIGNED SPECIFICALLY FOR USE WITH QUICK LOAD LINERS

• Requires less than half the time and effort to replace compared to conventional liners (see page 18 for more information)

AUTOLENGTH PIN PART NUMBERS FOR ROBOTIC APPLICATIONS

<table>
<thead>
<tr>
<th>PIN SIZE</th>
<th>PART NUMBER</th>
<th>FEED BRAND</th>
<th>ADJUSTMENT</th>
<th>TOLERANCE</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.030&quot;-0.045&quot;</td>
<td>0.052&quot;-3/32&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WEBSITE QUICK LINK

Tregaskiss.com/AutoLength

ADDITIONAL RESOURCES

TREGASKISS.COM

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

• Locate your nearest Tregaskiss Authorized Distributor
• Product Literature, Technical Documentation and Troubleshooting Information
• Access online CAD Model Request Information

BERNARDWELDS.COM

Visit BernardWelds.com for semi-automatic MIG welding product information and other valuable semi-automatic welding resources

TECHNICAL SUPPORT RESOURCES

Tregaskiss.com is always the most reliable source for up-to-date and accurate support materials including:

• Technical Guides and Manuals
• Spec. Sheets and Technical Notes
• How-To Guides and Videos
• Product Updates
• Troubleshooting Information

INCREASED PRODUCTIVITY

• Reduces issues caused by incorrect liner length
• Improves wire feedability by enhancing wire alignment with the contact tip

DESIGNED SPECIFICALLY FOR USE WITH QUICK LOAD LINERS

• Requires less than half the time and effort to replace compared to conventional liners (see page 18 for more information)

LINER PARTITIONS FEED FROM THE FRONT—NO NEED TO CUT AND WASTE WIRE!

WEBSITE QUICK LINK

Tregaskiss.com/AutoLength

Please see the QUICK LOAD Liners and AutoLength Pins Spec Sheet (SPEC TRG-QLL) at Tregaskiss.com for a complete list of part numbers.
Tregaskiss is an industry leader in the development and manufacture of quality robotic MIG guns, peripherals and welding consumables for high-volume production facilities. Vision, commitment, and collaboration are pivotal to the successes that Tregaskiss has enjoyed with its lineup of MIG welding products including TOUGH LOCK™, TOUGH GUN™, TOUGH LOCK™ Consumables, QUICK LOAD™ Liners and TOUGH GARD™ Anti-Spatter. Built-to-order with precision and durability in mind, Tregaskiss™ products are the TOUGHEST available.

Through the strength of its people and their dedication to the highest level of products and service, Tregaskiss strives to remain its customers’ #1 choice.

Distributed by:

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www.tregaskiss.com

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