ALUMINOTHERMIC RAIL WELDING
QPCJ CATALOG

FEATURING
RAILTECH
MATWELD

Leader In Rail Welding
service
training
hardware
material supply
Railtech Boutet, Inc. is a railway welding supplier specializing in the manufacturing of railroad track welding supplies for urban and industrial use. Railtech Matweld is a division of Railtech Boutet, Inc., producing American-made tools and proudly serving the railroad industry through innovation, training and service.

Railtech Matweld works directly with the aluminothermic welding division to develop and improve their tools to adapt to the thermite welding process. We are an industry-specialist meeting customer tool and product requirements with current, or custom, manufacturing capabilities that meet specifications for unique applications within urban and transit rail systems.

Railtech Boutet, Inc. is a subsidiary of Railtech International and part of the DELACHAUX S.A. GROUP. Founded more than one century ago, The DELACHAUX S.A. GROUP created Railtech International to consolidate its worldwide railway activities. Railtech International, a group now active around the world, has achieved a leading position in the railroad and urban transit track markets. Its divisions, dedicated to their activities and recognized as leaders in their respective fields, have known continual growth and market expansion while taking measures to ensure long term development through innovation.
RAILTECH INTERNATIONAL OVERVIEW 4-5

FOCUS: ALIGNMENT
RAILTECH A-FRAME RAIL ALIGNERS 6
RAILTECH ALIGNMENT PLATES 6
RAILTECH MAGNETIC STRAIGHT EDGE 7

FOCUS: PREHEATING
RAILTECH 03800B HYDRAULIC PREHEATER 8
RAILTECH PRECISION TORCH STAND 9

FOCUS: CONSUMABLES
HEAD-WASH REPAIR THERMITE WELD 10
FILTERED CJ ONE SHOT CRUCIBLE 11
STARTWEL® IGNITION SYSTEM 12
RAILTECH MULTI-USE / “MAXI” MOLDS 13
RAILTECH QPCJ HYBRID MOLDS 14

ALUMINOTHERIC WELDS
WELDING MATERIALS: STANDARD WELDS 16-17
WELDING MATERIALS: COMPROMISE WELDS 18-11
WELDING MATERIALS: WIDE GAP WELDS 22-23

HARDWARE & CONSUMABLES
HARDWARE FOR CJ WELDS 24-25

REPAIR
RAILTECH MAGNETIC STRAIGHT EDGE REPAIR PARTS 26
RAILTECH 03800B HYDRAULIC PREHEATER REPAIR PARTS 26
RAILTECH A-FRAME RAIL ALIGNER REPAIR PARTS 27
RAILTECH PRECISION TORCH STAND REPAIR PARTS 28

PREHEATING ESSENTIALS
PREHEATING WELDING EQUIPMENT 29-33

WELD TRAINING INFORMATION
THERMITE WELD TRAINING & SETUP 34-36

RAILTECH MATWELD HYDRAULIC TRACK TOOLS INFORMATION
POWER UNITS, GRINDERS, SHEARS, SAWS, DRILLS, IMPACTS, PULLERS 37-66
RAILTECH INTERNATIONAL

• HEAD OFFICE- RAISMES, FRANCE
• BOUTET- NAPOLEON, OHIO, USA.
• MATWELD – NAPOLEON, OHIO, USA
• RAILWEL- ST JEROME, CANADA
• CALOMEX- TLANEPEINTLA, MEXICO
• SUFETRA- BARCELONA, SPAIN
• PORSOL- LISBON, PORTUGAL
• UK LTD.- BIRMINGHAM, GREAT BRITAIN
• SLAVJANA- PRAGUE, CZECH REPUBLIC
• AUSTRALIA- QUEENSLAND, AUSTRALIA
• VOLGA- ST. PETERSBURG, RUSSIA
• ZHUQIAO- WUHAN, CHINA
• RAILWELD- RAISMES, FRANCE
• SCHLATTER SYSTEMS- FRANCE
• ALU SINGNEN- RAISMES, FRANCE
• STEDEF- BANGKOK, THAILAND
• CSA- REGGIO EMILIA, ITALY

Universal Presence

Worldwide Presence

OUR COMMON PASSION IS THE TRACK

Railtech is a global leader in the commercial and urban railway industry. With over one century of experience, Railtech has evolved to ideally recognize the demands and needs of each railroad we service. Throughout Railtech’s history, experience has allowed us to become highly specialized in rail welding and involved in all aspects of track service and activities the world over. Railtech is continually developing to meet the challenges of the railroad industry while meeting the needs of its customers and providing them with quality service and products.

Excellence is

ALUMINOTHERMIC WELDING PROCESS

Molten steel produced through the reaction of iron oxide and aluminum is cast at a temperature exceeding 3,500˚F into refractory molds designed to suit the rails to be welded. This process features our CJ One-Shot Crucible, which is available for all of our current thermite welding processes. We offer a full range of rail welding kits to suit all rail sections including Worn Rail Welding and Wide Gap Welding.

The One Shot Crucible is tapped at the bottom, the molten steel flows into the mold, fusing with the rail ends and forming the weld. The breakdown time starts after the last drop pours, allowing the entire setup to progressively cool. After the recommended time, the mold is removed and the weld is cleaned and finished by grinding to produce a smooth joint.

WWW.RAILTECHBOUTET.COM
WWW.MATWELD.COM
With 85% of sales exported in over 60 countries, The Delachaux Group pursues its continuous development strategy in track-oriented activities. Research and Development, as well as a strong international presence, help Railtech and its subsidiaries maintain a world leader position. Our goal is to satisfy our customers on the most technically challenging segments in the railway and urban transit domain.

not an act,  
It’s a habit.

RAILTECH MATWELD HYDRAULIC TRACK TOOLS

Railtech Matweld, a division of Railtech Boutet, Inc., offers high quality products for the railway industry and is your single source for tools, equipment and railway products. Railtech Matweld works closely with the aluminothermic welding division to develop and improve their tools to adapt to the thermite welding process. Railtech Matweld is an industry specialist meeting customer tool and product requirements with current or custom manufacturing capabilities that meet specifications for unique applications. They offer after-the-sale training, service and single source purchase of all items sold and will service and rebuild all of our equipment to factory specifications and according to our strict manufacturing standards

• Power Units
• Grinders
• Rail Saws
• Weld Shears
• Drills
• Impacts
• Tampers
• Spike Pullers/Drivers
• Rail Pullers
• Accessories

TRAINING
Railtech will instruct and demonstrate the use of our products and equipment in a classroom setting, as well as in the field.

HARDWARE
From mold jackets to temp sticks, Railtech will supply you with all the necessary equipment to successfully complete your weld.

CJ FILTERED CRUCIBLE
The felt lining around the collar of the crucible lid functions as a filter which virtually eliminates smoke and fumes from the welding process. The lid is completely sealed on top, reducing the chances of escaping debris.

WELDING KITS
Railtech manufactures a wide array of welding kits to suit your specific rail welding needs. We offer Standard One-Inch, Wide Gap Welds, Compromise Welds and Specialty Kits.
RAILTECH A-FRAME RAIL ALIGNERS

The Railtech A-Frame Rail Aligners allow for exact alignment of the rails to be welded. Once the appropriate amount of spikes are removed, the rail can be lifted, moved horizontally and rolled to eliminate twist and ensure the best alignment. The Railtech A-Frame Rail Aligners are designed for easy lifting, carrying and operation and the A-Frame Rail Aligner jaws can be modified to fit Girder/Commuter Rail for various transit systems. With this specialized jaw, the flange on the Girder Rail is supported without compromising the precision alignment.

- FAST AND EASY INSTALLATION
- PRECISION ADJUSTMENT
- LIGHTWEIGHT FRAME
- PART NUMBER: 36000000

flexible solutions for your welding needs

RAILTECH ALIGNMENT PLATES

The Railtech Alignment Plates make it possible for the welder to accurately align the rails through lift, twist and horizontal adjustment. The towers enable the rail to move vertically and reduce twist, while the base of the rail sits on the rail-saddle to stabilize and adjust by shifting horizontally.

The towers for the Railtech Alignment Plates are removable, allowing the user to easily situate the base plate under the rail base for quick set-up and convenient storage. The foot of the tower is grooved, which allows for a more stable and sturdier grip into the tie.

The design of the Railtech Alignment Plates allows the user to replace individual parts as needed, rather than replacing the entire Railtech Alignment Plate.

- HEIGHT: 5"
- LENGTH: 16¾"
- WIDTH: 5"
- REMOVABLE TOWERS
- EASY INSTALLATION AND REMOVAL
- PART NUMBER: AP-1
RAILTECH MAGNETIC STRAIGHT EDGE

The Railtech Magnetic Straight Edge enables the welder to properly crown the rail ends to the desired height with ease. The heavy duty magnet located at the end of the straight edge provides improved control and stability during the alignment process. The height adjustment knobs located at either end of the magnetic straight edge can be set to the appropriate height for crowning with the Starrett Taper Gage.

- LIGHTWEIGHT
- MAXIMUM STABILITY
- ADJUSTABLE HEIGHT KNOBS
- PART NUMBER: 36200000

Shown with the Starrett Taper Gage (STD51292).
03800B RAILTECH HYDRAULIC PREHEATER

In the Thermite Welding industry, preheating the rail is a crucial operation and conducting a proper preheat is a major factor in determining the success or failure of a thermite weld. Its function lies in not only increasing temperature in the rail-ends and molds, but also the elimination of residual moisture.

Melting the rail-ends during preheat is unacceptable and jeopardizes the integrity of the weld, which can ultimately lead to fractures and weld failures. This is a major drawback to using the Oxy/Pro setup.

The Railtech Hydraulic Preheater is a compact, light weight and easy-to-use tool for heating the rail-ends before welding. It features a hydraulically driven blower and uses bottled Liquid Propane (LP). The Railtech Hydraulic Preheater utilizes Oxygen pulled in from the air, eliminating the need for bottled Oxygen. This Hydraulic Preheater ensures the rail-ends never melt during preheating with the QP Process and the torch safely extinguishes once removed from the molds. The Railtech Hydraulic Preheater is designed to be safe and economical to use for any welding crew.

The Preheater Complete Setup includes all the necessary tools to properly set up your welds using the hydraulic preheating process.

<table>
<thead>
<tr>
<th>Preheater Complete Setup: 22900000 (includes all items listed below)</th>
</tr>
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<tbody>
<tr>
<td>• Hydraulic Preheater Unit: 22500000</td>
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<tr>
<td>• Precision Torch Stand: 26110000</td>
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<tr>
<td>• Hydraulic Torch: 22600001</td>
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<td>• 50&quot; Air-Propane Hose: 22700000</td>
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<td>• 20&quot; Flex Hose: 22800000</td>
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<td>• Flint Ignitor Pistol: HP-FIP-1</td>
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FLOW
• 10 GPM (38 LPM)

PRESSURE
• 2000 PSI (140 BAR)
• 3600 RPM

DIMENSIONS
• 18" (45.7 CM)
• 16" (40.6 CM)
• 131/2" (34.3 CM)

WEIGHT
• 83 LBS (37.6 KG)
RAILTECH PRECISION TORCH STAND

The Railtech Precision Torch Stand is used during the preheating process to finely tune the torch position while preheating the rail ends. The 2 adjustment knobs on the upper portion of the Torch Stand manipulate side-to-side and forward/backward movement while the smaller adjustment rings on the lower portion, the stem, allow the user to raise and lower the height of the torch when needed and lock it into place for the appropriate height.

The Railtech Precision Torch Stand comes apart in two separate "units". The upper "clamp" portion holds the Torch Setup for the preheat while the lower "stem/post" is meant to support it. This design enables the welder to pre-align the torch in the molds, quickly remove and replace the torch without disturbing the preset alignment and to quickly and safely remove the torch tip after preheat for the pour process.

The ability to make fine adjustments on the Precision Torch Stand gives the welder the advantage to create an even and plumb preheat. With proper use, the Railtech Precision Torch Stand will reduce costly errors during the preheating process, reducing the probability of weld failure due to an improper preheat.

• PRECISION ADJUSTMENT
• BETTER STABILITY
• STURDIER GRIP
• PART NUMBER: 26110000
HEAD-WASH REPAIR THERMITE WELD (HWR)

The Railtech Head-Wash Repair Weld (HWR) is designed to efficiently remove defects from the ball of the rail with minimal disturbance to the track. The familiar mold design allows the welding crew to install the HWR Weld quickly and easily when a standard 1” weld is unnecessary. The HWR process uses the Wide-Gap Weld jackets, so no new welding hardware is required for this welding process. Additionally, the HWR can be used to repair defects found in the ball on electric flash butt welds.

First, the ball of the rail is slotted to the appropriate depth and width with the Railtech Matweld 09300 Head Wash Grinder (HWG). Then, a slight crown is placed in the rail directly under the weld area- providing support. The molds are lined up and the weld is set in place with the same hardware and equipment as a Wide-Gap Weld.

The preheating process, crucible setup and hardware breakdown times are similar to the WGW. After the demold, the weld top is sheared and the grinding process can begin.

- 1 WELD TO PERFORM, NOT 2
- MINIMAL TRACK DISTURBANCE
- NO PLUG RAIL REQUIRED
- NO SCRAP-RAIL TO DISPOSE
- CAN BE USED ON EFB WELDS
- 115LBS KIT: 55HWR11500
- 136LBS KIT: 55HWR13600

CONTACT RAILTECH BOUTET FOR MORE INFORMATION
FILTERED CJ ONE-SHOT CRUCIBLE

The CJ2CCF Filtered Crucible was originally designed for welding in closed areas such as tunnels and subways and around heavily wooded areas. However, the benefits of using this specific crucible can be applied to any welding job indoors or outdoors. The unique lid design is the key to the CJ2CCF which offers a felt lining around the lip and the elimination of vents on the top. Like all One-Shot CJ Crucibles, the Filtered Crucible can be used at any location with all welds and is constructed of the same biodegradable materials. Because of the sealed lid design and felt lining, the probability of fire during the pour process is dramatically reduced when welding in drier climates or wooded areas.

SEALED LID
The lid is completely sealed on top, reducing the chances of escaping debris. The lack of vents on the crucible lid keep smoke and fumes from escaping during the pour process.

FELT LINING
The felt lining around the collar of the crucible lid functions as a filter. Smoke and fumes are virtually eliminated from the welding process as the charge ignites within the crucible.

• REDUCED SMOKE AND FUMES
• VERSATILE AND COMPATIBLE
• SAFELY REDUCES FLAMES
• COMPACT DESIGN
• HEIGHT: 12¾” X 10½”
• WEIGHT: 25 LBS
• PART NUMBER: 32100000
STARTWEL® IGNITION SYSTEM

The Startwel® Ignition System allows the welder to easily ignite the weld charge to initiate the pour process for the Railtech Aluminothermic Weld System, replacing the traditional “sparkler” igniter design.

Startwel® is engineered to fit precisely into the round opening in the lid of the Railtech CJ One-Shot Crucible. Once the crucible is prepped and ready to pour, the Startwel® Ignition System can be placed in the lid and deployed safely by removing the metal clip grounding the prongs.

The Startwel® Ignition System starter is comprised of the same charge material used in the bottom thimble of the Railtech CJ One Shot Crucible and is activated by touching the prongs on the starter handle with those on the starter, initiating a small electric charge. Once activated, the Startwel® Ignition System thimble ignites and drops a small amount of liquid charge onto the top of the weld charge inside the crucible, safely and consistently initiating the pour process.

Startwel® cannot be activated until the pin is removed, making it non-hazardous classification and safe for standard shipping.

- NON-HAZARDOUS CLASSIFICATION FOR TRANSPORT
- EVEN DISBURSEMENT OF ACTIVATED CHARGE
- IGNITES OVER 100 STARTERS ON ONE BATTERY CHARGE
RAILTECH MULTI-USE / MAXI MOLDS

The Railtech Multi-Use “Maxi” Molds are designed to offer versatility to welders when out on track by allowing the welder to file down the molds, with accuracy, to the necessary wear level. The Railtech Multi-Use Molds are exactly the same as the Standard Molds used in eliminating 1” Gaps, except for the “steps” at the ball and base of the rail. Filing the molds will give them a better fit against the rail and help to heavily reduce flashing along the weld. These kits can be used on New-New rail, New-Used rail, and Used-Used rail. When using the Railtech Multi-Use Kits on New-Used and Used-Used rail, it may be necessary to use an “offset” / Compromise Base Briquette. Compromise Base Briquettes must be ordered separately with Railtech Multi-Use Kits.

- REDUCES INVENTORY FOR MULTIPLE KIT SIZES
- 132LBS-141LBS
- EASY SETUP & FILING
- CAN BE USED ON NEW OR USED RAIL SIZES
- AVAILABLE IN KIT OR SET
- KIT PART NUMBER: 66141132MU
- SET PART NUMBER: 55141132MU

CONTACT RAILTECH BOUTET
FOR MORE INFORMATION

flexible solutions for your welding needs

Notches, or “steps”, for varied rail size and wear
RAILTECH HYBRID MOLDS

The Railtech Hybrid Molds are a combination of QPCJ Molds and ceramic pads along the web of the mold and around the perimeter of the base plate. The ceramic pads are resistant to extremely high temperatures, produce a well defined collar with cleaner lines and help to reduce any flashing along the web and base of the rail. By reducing the flashing, weld failures are drastically minimized and the life of the weld is extended. The Railtech Hybrid Molds are the same platform as the Railtech Standard QPCJ Molds so all hardware and Aluminothermic weld procedures are the same.

- REDUCES INVENTORY FOR MULTIPLE KIT SIZES
- EASY SETUP & FILING
- CAN BE USED ON NEW OR USED RAIL SIZES

115# QPCJ HYBRID STRAIGHT KIT
  - Part Number: 66115125HS
  - Weld kit for 115 New, 115 U1/4, 115 U3/8 (Straight up to 1/8” offset)

115# QPCJ HYBRID STEP KIT
  - Part Number: 66115250HC
  - Weld kit for 115/115 U1/4, 115/115 U3/8 (1/8” Offset up to 1/4” offset)

136# QPCJ HYBRID STRAIGHT KIT
  - Part Number: 66136125HS
  - Weld kit for 132 New, 132 U1/4, 136 New, 136 U1/4 (Straight up to 1/8” offset)

136# QPCJ HYBRID STEP KIT
  - Part Number: 66136250HC
  - Weld kit for 132/132 U1/4, 136/136 U1/4, 136/132 (1/8” Offset up to 1/4” offset)

141# QPCJ HYBRID STRAIGHT KIT
  - Part Number: 66141125HS
  - Weld kit for 141 New, 141 U1/4 (Straight up to 1/8” offset)
PLEASE CONTACT OUR SISTER COMPANY, RAILWEL CANADA, FOR ALL OF YOUR SPECIALTY RAIL WELDING NEEDS. FROM GIRDER RAIL TO CRANE RAIL, RAILWEL CANADA AND THE CALORITE WELD SYSTEM CAN ENSURE THE SUCCESS OF YOUR SPECIALIZED ALUMINOTHERMIC WELDS.

Contact Information

Railwel Canada, Inc. Phone: (450) 565-9100 (800) 667-4709
175 J.F. Kennedy Blvd Fax: (450) 432-6985 (800) 442-9817
St-Jérôme, Quebec J7Y 4B5 Canada

contact@railwel.com
www.railwel.com
# WELDING MATERIALS: STANDARD WELDS

## Boutet Field Weld Set
- 1 EA. One-Shot Crucible
- 1 PR. Prefabricated Mold
- 1 EA. Welding Charge
- 1 EA. Ignitor

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## Boutet Field Weld Kit
- 1 EA. One-Shot Crucible
- 1 PR. Prefabricated Mold
- 1 EA. Welding Charge
- 1 BG. Premixed Packing Sand
- 1 EA. Ignitor

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Railtech Boutet Standard Welds are used for eliminating joints with 1” gaps.

All Railtech Boutet molds, crucibles and charges have a two (2) year shelf life.

Tube Paste is a necessary item for Railtech Boutet Welds and is not included in the kits. Please be sure to order as a separate item.
## WELDING MATERIALS: COMPROMISE WELDS

### BOUTET FIELD WELD SET
- 1 EA. ONE-SHOT CRUCIBLE
- 1 PR. PREFABRICATED MOLD
- 1 EA. WELDING CHARGE
- 1 EA. IGNITOR

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<td>CJ COMP. SET 132/127</td>
<td>5515514000</td>
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Railtech Boutet Compromise Welds are used for eliminating joints with 1” gaps in addition to having a size mismatch. Please verify mismatch limitations and specs for Compromise Welds on your track.

All Railtech Boutet molds, crucibles and charges have a two (2) year shelf life.

Tube Paste is a necessary item for Railtech Boutet Welds and is not included in the kits. Please be sure to order as a separate item.
WELDING MATERIALS: COMPROMISE WELDS

BOUTET FIELD WELD KIT
• 1 EA. ONE-SHOT CRUCIBLE
• 1 PR. PREFABRICATED MOLD
• 1 EA. WELDING CHARGE
• 1 BG. PREMIXED PACKING SAND
• 1 EA. IGNITOR

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>MOLDS</th>
<th>ITEM #</th>
<th>MOLDS</th>
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<td>6610259020</td>
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<tr>
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<td>CJ COMP. KIT 100/100 NW</td>
<td>6613213237</td>
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<tr>
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<tr>
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<td>6614113325</td>
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<tr>
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<td>CJ COMP KIT 132/115 RIGHT</td>
<td>6614113625</td>
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<td>6613212200</td>
<td>CJ COMP. KIT 132/122</td>
<td>6615514000</td>
<td>CJ COMP. KIT 155/140</td>
</tr>
</tbody>
</table>
Railtech Boutet Compromise Welds are used for eliminating joints with 1" gaps in addition to having a size mismatch. Please verify mismatch limitations and specs for Compromise Welds on your track.

All Railtech Boutet molds, crucibles and charges have a two (2) year shelf life.

Tube Paste is a necessary item for Railtech Boutet Welds and is not included in the kits. Please be sure to order as a separate item.
WELDING MATERIALS: 2¾” WIDE GAP WELDS (WGW)

**BOUTET FIELD WELD KIT**
- 1 EA. ONE-SHOT CRUCIBLE
- 1 PR. PREFABRICATED MOLD
- 1 EA. WELDING CHARGE
- 1 EA. IGNITOR

**BOUTET FIELD WELD SET**
- 1 EA. ONE-SHOT CRUCIBLE
- 1 PR. PREFABRICATED MOLD
- 1 EA. WELDING CHARGE
- 1 EA. IGNITOR

**ITEM #** | **MOLDS**
---|---
5550311500 | CJ WELD SET 115 2¾” WGW
5550313200 | CJ WELD SET 132 2¾” WGW
5550313300 | CJ WELD SET 133 2¾” WGW
5550313600 | CJ WELD SET 136 2¾” WGW

**ITEM #** | **MOLDS**
---|---
6660311500 | CJ WELD KIT 115 2¾” WGW
6660313200 | CJ WELD KIT 132 2¾” WGW
6660313300 | CJ WELD KIT 133 2¾” WGW
6660313600 | CJ WELD KIT 136 2¾” WGW

Railtech Wide Gap Welds (WGW) are primarily used for replacing defective factory welds or a previously installed Standard Thermite Weld.

If you have questions or concerns on the use of the WGW, please contact Railtech Boutet, Inc.

All Railtech Boutet molds, crucibles and charges have a two (2) year shelf life.
Railtech Wide Gap Welds (WGW) are primarily used for replacing defective factory welds or a previously installed Standard Thermite Weld.

If you have questions or concerns on the use of the WGW, please contact Railtech Boutet, Inc.

All Railtech Boutet molds, crucibles and charges have a two (2) year shelf life.

Tube Paste is a necessary item for Railtech Boutet Welds and is not included in the kits. Please be sure to order as a separate item.
# Hardware & Consumables for QPCJ Welds

## Alignment

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
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<tbody>
<tr>
<td>AP1</td>
<td>Railtech Alignment Plates</td>
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<tr>
<td>36000000</td>
<td>Railtech A-frame Rail Aligner</td>
</tr>
<tr>
<td>6661-008B</td>
<td>Alignment Wedge - LG. Grade B</td>
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<tr>
<td>36200000</td>
<td>Railtech Magnetic Straight Edge</td>
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<tr>
<td>STD 51292</td>
<td>Starrett Taper Gage</td>
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## Hardware

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<tr>
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<tbody>
<tr>
<td>04107140D</td>
<td>Close-Quarter Base Plate 107-141#</td>
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<tr>
<td>04085105</td>
<td>Base Plate 85-105#</td>
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<tr>
<td>04107140</td>
<td>Base Plate 107-141#</td>
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<tr>
<td>04155000</td>
<td>Base Plate 155#</td>
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<tr>
<td>04310140</td>
<td>Base Plate 110-140# 3&quot; WGW</td>
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<tr>
<td>32200000</td>
<td>Base Plate 85-141# Comp. W/ 4 Fixings</td>
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<tr>
<td>03110140M</td>
<td>Close-Quarter Mold Jackets 110-141#</td>
</tr>
<tr>
<td>03085105</td>
<td>Mold Jacket 85-105#</td>
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<tr>
<td>03110140</td>
<td>Mold Jacket 110-141#</td>
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<tr>
<td>03155000</td>
<td>Mold Jacket 155#</td>
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<tr>
<td>03310140</td>
<td>Mold Jacket 110-140# 3&quot; WGW</td>
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<tr>
<td>32110140</td>
<td>Mold Jacket Universal Comp.</td>
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<tr>
<td>5557100002</td>
<td>CJ Crucible Fork</td>
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<tr>
<td>5559100003</td>
<td>Universal Demolder</td>
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<tr>
<td>10100000</td>
<td>Slag Basin</td>
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<tr>
<td>11100000</td>
<td>Mold Clamp</td>
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<tr>
<td>14100000</td>
<td>Hot Cut Chisel</td>
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<tr>
<td>5558100002</td>
<td>Plug Plier</td>
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<tr>
<td>36300000</td>
<td>Cooling Cap</td>
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<tr>
<td>85141BPR</td>
<td>Baseplate Removal Tool</td>
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<td>80100000</td>
<td>Welding Umbrella</td>
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## Torch Setup

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<td>26110000</td>
<td>Precision Torch Stand</td>
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<tr>
<td>25410000</td>
<td>Victor Torch w/ Flat Head</td>
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<tr>
<td>0382-0015</td>
<td>Victor Torch Handle</td>
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<tr>
<td>ET-1011</td>
<td>In-Line Gages</td>
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<tr>
<td>RM-375-50</td>
<td>Oxy-Propane Hose 50’ x 3/8” ID</td>
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<tr>
<td>RCV-2002</td>
<td>Check Valves</td>
</tr>
<tr>
<td>FB-1</td>
<td>Flashback Arrestors</td>
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<tr>
<td>0781-0087</td>
<td>Oxy-Propane Regulators</td>
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<tr>
<td>22900000</td>
<td>Hydraulic Preheater Complete</td>
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<tr>
<td>22500000</td>
<td>038008 Hydraulic Preheater Unit</td>
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<tr>
<td>22600001</td>
<td>Hydraulic Torch</td>
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<tr>
<td>HT-6</td>
<td>Winters Air Pressure Gauge</td>
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<tr>
<td>HT-6G</td>
<td>Air Pressure Gauge W/ Guard</td>
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<tr>
<td>22700000</td>
<td>Air-Propane Hose - 50’</td>
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<tr>
<td>22800000</td>
<td>Flex Hose - 20’</td>
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<td>HP-FIP-1</td>
<td>Flint Ignitor Pistol</td>
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## Consumables

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<td>15100010</td>
<td>Premixed Packing Sand 10#</td>
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<td>5556100002</td>
<td>CJ One-Shot Crucible</td>
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<tr>
<td>555610000F</td>
<td>Filtered CJ One-Shot Crucible</td>
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<tr>
<td>17100000</td>
<td>Igniters (tube of 20)</td>
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<tr>
<td>13100000R</td>
<td>Refractory / Tube Paste</td>
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<tr>
<td>33230000</td>
<td>Packing Felt (box of 30 bands)</td>
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<tr>
<td>TS-450F</td>
<td>Tempil Stick-450F</td>
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<tr>
<td>TS-700F</td>
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**Alignment Diagram:**
- A: Close-Quarter Base Plate 107-141#
- B: Base Plate 110-140# WGW
- C: Base Plate 85-141# Comp. W/ 4 Fixings
- D: Base Plate 107-141#
STANDARD MOLD CLAMP, MOLD JACKETS, BASE PLATE, SLAG BASIN

PRECISION TORCH STAND
(Upper & Lower portion separated for emphasis)

TUBE / REFRACTORY PASTE

IN-LINE PRESSURE GAGES

OXY-PROPANE REGULATORS

STANDARD MOLD CLAMP, MOLD JACKETS, BASE PLATE, SLAG BASIN

COOLING CAP

CLOSE-QUARTER MOLD JACKETS & BASE PLATE

STANDARD WELD SETUP
WITH HYDRAULIC RAIL PREHEATER

CHARGE, CRUCIBLE & PACKING SAND
RAILTECH MAGNETIC STRAIGHT EDGE PARTS (REPAIR)

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<tbody>
<tr>
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<tr>
<td>SE-2</td>
<td>STEEL STRIP</td>
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<tr>
<td>SE-3</td>
<td>REINFORCING CLIP</td>
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<tr>
<td>SE-4</td>
<td>DISTANCE SLEEVE</td>
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<td>SE-5</td>
<td>M6X10 SCREW</td>
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<tr>
<td>SE-6</td>
<td>AXIS</td>
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<tr>
<td>SE-7</td>
<td>MECANINDUS PIN 4X35</td>
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<tr>
<td>SE-8</td>
<td>M6 NYLSTOP NUT</td>
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<tr>
<td>SE-9</td>
<td>MECANINDUS PIN 4X15</td>
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<tr>
<td>SE-10</td>
<td>ADHESIVE LABEL (INCHES)</td>
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<tr>
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<td>THREADED SCREW</td>
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<tr>
<td>SE-12</td>
<td>THREADED NUT</td>
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<td>SE-13</td>
<td>CONNECTOR FLANGE</td>
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<td>HM6X25 BOLT</td>
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<td>SE-15</td>
<td>GROWER WASHER 6MM</td>
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<td>SE-16</td>
<td>MAGNET</td>
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<td>SE-17</td>
<td>LABEL</td>
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RAILTECH 03800B HYDRAULIC PREHEATER PARTS (REPAIR)

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<td>DRIVE BELT</td>
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<tr>
<td>HP-PT</td>
<td>PROPANE TEE</td>
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<tr>
<td>HP-14SEL</td>
<td>1/4&quot; STREET EL (BRASS)</td>
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<tr>
<td>HP-34SEL45</td>
<td>3/4&quot; STREET EL (45°)</td>
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<tr>
<td>HP-FE-1</td>
<td>AIR FILTER ELEMENT</td>
</tr>
<tr>
<td>HT-6</td>
<td>WINTERS AIR PRESSURE GAUGE</td>
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<tr>
<td>HP-ACV</td>
<td>ADJUSTABLE CARTRIDGE VALVE</td>
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<td>FLINT IGNITOR PISTOL</td>
</tr>
<tr>
<td>HP-PSEB</td>
<td>PROPANE SWIVEL ELBOW w/ BUSHING</td>
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<tr>
<td>HP-AP50</td>
<td>50’ AIR/PROPANE HOSE (3/4” AIR x 3/8” PROPANE)</td>
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Please refer to the 03800B Hydraulic Preheater manual for specific parts lists, diagrams and part locations.
# RAILTECH A-FRAME RAIL ALIGNER PARTS (REPAIR)

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<th>ITEM #</th>
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<td>FLEX HEAD SOCKET WRENCH</td>
<td>RA-21</td>
<td>CLAMPING JAW</td>
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<tr>
<td>RA-2</td>
<td>SHUNTING NUT SET</td>
<td>RA-22</td>
<td>SPRING N8</td>
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<tr>
<td>RA-3</td>
<td>MALE CAP</td>
<td>RA-23</td>
<td>SELF CUTTING SCREW CHC M6X10</td>
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<tr>
<td>RA-4</td>
<td>SELF CUTTING SCREW CHC M6X10</td>
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<td>CONNECTING ROD CENTRAL AXLE</td>
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<td>SPRING N11</td>
<td>RA-25</td>
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<tr>
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<td>PIN V4X25</td>
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<td>CLAMPING JAW CAP</td>
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<tr>
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<td>MECANINDUS PIN 3X40</td>
<td>RA-29</td>
<td>2 TENONS NUT</td>
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<tr>
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<td>SPRING N8</td>
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<td>ADJUSTING SCREW SET (# 26-27-28-29)</td>
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<tr>
<td>RA-11</td>
<td>PIN V4X25</td>
<td>RA-31</td>
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<td>SHUNTING CONNECTING ROD</td>
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<td>RIVET</td>
<td>RA-36</td>
<td>SHOULDERED AXLE M12</td>
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<td>WASHER LL6</td>
<td>RA-37</td>
<td>NYLSTOP NUT M12</td>
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<tr>
<td>RA-18</td>
<td>BEARING STUD AXZ 8X20X35.4</td>
<td>RA-38</td>
<td>SINGLE COIL SPRING LOCK WASHER 12.2</td>
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<tr>
<td>RA-20</td>
<td>DESCENT GUIDE</td>
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![Diagram of RAILTECH A-FRAME RAIL ALIGNER PARTS (REPAIR)](image-url)
# RAILTECH PRECISION TORCH STAND (REPAIR)

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<td>3</td>
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<td>5/16-18 WING NUT</td>
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<td>5</td>
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<td>CLAMP BASE BODY</td>
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<td>6</td>
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<td>HEIGHT ADJUSTMENT BLOCK</td>
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<td>ANGLE BRACKET</td>
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<td>10</td>
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<td>SUPPORT TUBE</td>
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<td>SUPPORT SHAFT</td>
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<td>POSITIONING ROD</td>
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<td>15</td>
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<td>3/8-16 x 3 1/4 SET SCREW</td>
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<td>30</td>
<td>A6362</td>
<td>5/16-18 x 1 3/4 BHCS</td>
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PROPER PREHEATING TORCH SETUP

The preheating process is one of the most important factors in thermite welding. This is why it is crucial for the welder to have a proper preheating torch setup in good, working order with safety and precision in mind. Regardless of the manufacturer, welders need to have the correct style of torch for thermite weld applications. Likewise, it is necessary to have the proper hose length and hose grade for use around high temperatures and oils.

Railtech strongly recommends incorporating In-Line Pressure Gages at the torch to drastically improve accuracy during preheats, as well as help to improve overall quality in the weld. In-Line Pressure Gages give the welder control of fine tuning pressure settings and adjustment of the flame, while maintaining constant supervision at the weld. Gas Pressure Regulators that are in good working condition and made for industrial applications, in conjunction with In-Line Pressure Gages, will provide the welder with the tools required for indicating and monitoring changes in pressure.

Flashback Arrestors are a MUST on your fuel and oxygen lines when welding. Maximum safety is having arrestors at the tanks, on the Gas Pressure Regulators, and at the torch.

Railtech Boutet offers all the necessary equipment and hardware to effectively conduct a correct preheat for thermite welding and to give thermite welders total confidence in their equipment.

Proper Torch Setup for Thermite Welding:

- Torch stand
- Thermite torch tip
- Thermite torch body
- In-line pressure gages (At Torch Handle)
- Non-Q.D. Flash-Back Arrestors (At Torch Handle, Recommended)
- 3/8” I.D. Hose, Grade “T” ONLY, 50ft-100ft (Fuel Source, LP)
- Non-Q.D. Flash-Back Arrestors at tanks (Required)
VICTOR TORCH SETUP

Thermite welding requires specialized equipment to be able to handle the intense heat and pressures necessary for this process. Railtech Boutet offers the Victor Torch Setup to properly and efficiently preheat the rail.
SMITH TORCH SETUP

Railtech is Smith Equipment’s official distributor to the railroads for preheating and welding equipment needs. Smith proudly manufactures in the USA.

Smith Torch Tip (Specs. By Railtech, built by Smith)
2541-0000SM

Smith Torch Tip
22 Orifice Tip

Smith Torch Handle WH200
0382-0015SM

Smith Flashback Arrestors (set)
RCV-2002SM

Smith Regulator HB1522B-510 (Propane)
0781-0088SM

Smith Regulator HB1510A-540 (Oxygen)
0781-0089SM

Smith Regulators HB1500 Series (Oxy/Propane set)
0781-0087SM
In-line Pressure Gages

In-Line Pressure Gages are crucial for determining pressure AT THE TORCH for a successful preheat. Pressures can drastically change due to temperature, hose length, gas levels, flashback arrestors, regulators, etc. In-line Pressure Gages will give you the most accurate pressure setting at the torch and provide a reliable indication of changes in pressure.

Flashback Arrestors

Flashback Arrestors are most commonly used in oxy-fuel welding and cutting to stop the flame from burning back up into the equipment and hoses, which can cause damage or explosions. Flashback Arrestors are a MUST on your fuel line as well as the oxygen line when welding. Maximum safety is having arrestors on both the regulator and the torch. Railtech requires functioning Flashback Arrestors at the tank for weld qualification, and strongly recommends them at the torch handle. With regular welding, Flashback Arrestors should be changed 1-2 times annually.

Gas Pressure Regulators

Gas Pressure Regulators differ in size and shape, delivery pressure and adjustment but are uniform in their purpose to deliver a constant outlet pressure for downstream requirements. Please ensure you have the CORRECT SIZE regulator for thermite welding applications.

BRASS CONSTRUCTION FOR DEPENDABLE SERVICE IN CORROSIVE ATMOSPHERES

HB1500 series single stage regulators comprise a complete line of versatile regulators for welding, cutting, heating and other industrial applications. Heavy duty construction and simplified design provides high gas flow and longer trouble-free operation.

3/8 I.D. Grade “T” Hoses

Grade “T” hose ensures compatibility with the gas being conveyed and user safety.

Additional features:
- Oil resistance: When exposed to an oil environment, Grade “R” hose may become soft and tacky. This can lead to cover separation from the reinforcement or excessive wear of the cover. Both of these conditions can lead to premature hose failure and decreased service life. The Grade “T” hose provides protection from oil, both internally and externally, while only the cover of the Grade “RM” provides this protection.
- Flame Resistance: The Grade “T” hose provides added protection, both externally and internally, when exposed to a flame or hot materials. The tube and cover of the Grade “T” hose are self-extinguishing and provide maximum safety when exposed to adverse conditions such as hot slag, flash backs or inadvertent flame exposure. The cover of the Grade “RM” hose also provides this protection. Grade “R” has no flame resistance requirements.
PREHEATING ESSENTIALS

Railtech Precision Torch Stand

The Railtech Precision Torch Stand is used during the preheating process to finely tune the torch position while preheating the rail ends. The Precision Torch Stand adjusts side-to-side, forward and backward. The smaller adjustment rings on the lower portion, the stem, allow the user to raise and lower the height of the torch when needed and lock it into place for the appropriate height.

The ability to make fine adjustments on the Torch Stand gives the welder the advantage to create an even and plumb preheat. With proper use, the Railtech Precision Torch Stand will reduce costly errors during the preheating process, reducing the probability of weld failure due to an improper preheat.

03800B Hydraulic Rail Preheater

In the Thermite Welding industry, preheating the rail is a crucial operation and conducting a proper preheat is a major factor in determining the success or failure of a thermite weld. Its function lies in not only increasing temperature in the rail-ends and molds, but also the elimination of residual moisture.

Melting the rail-ends during preheat is unacceptable and jeopardizes the integrity of the weld, which can ultimately lead to fractures and weld failures. This is a major drawback to using the Oxy/Pro setup.

The Railtech Hydraulic Preheater is a compact, light weight and easy-to-use tool for heating the rail-ends before welding. It features a hydraulically driven blower and uses bottled Liquid Propane (LP). The Railtech Hydraulic Preheater utilizes Oxygen pulled in from the air, eliminating the need for bottled Oxygen. This preheater ensures the rail-ends never melt during preheating with the QP Process and the torch safely extinguishes once removed from the molds. The Railtech Hydraulic Preheater is designed to be safe and economical to use for any welding crew.

The Preheater Complete Setup includes all the necessary tools to properly set up your welds using the hydraulic preheating process.

Preheater Complete Setup: 22900000

Includes all items listed below:

- Hydraulic Preheater Unit: 22500000
- Precision Torch Stand: 26110000
- Hydraulic Torch: 22600001
- 50" Air-Propane Hose: 22700000
- 20" Flex Hose: 22800000
- Flint Ignitor Pistol: HP-FIP-1

Air-Propane Hose Setup:
- 50’x 3/8 I.D. Propane
- 50’x 3/4 I.D. Air
RAILTECH BOUTET, INC. THERMITE WELD TRAINING

<table>
<thead>
<tr>
<th># OF PARTICIPANTS</th>
<th>TRAINING DAYS</th>
</tr>
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<tr>
<td>1 – 5</td>
<td>MINIMUM 2 DAYS</td>
</tr>
<tr>
<td>6 - 8</td>
<td>MINIMUM 3 DAYS</td>
</tr>
<tr>
<td>OVER 8</td>
<td>TBD (QUOTE)</td>
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</table>

IMPORTANT NOTES:
- CONTACT RAILTECH BOUTET, INC. FOR CURRENT TRAINING COSTS AND PRICING.
- A PURCHASE ORDER (P.O) IS REQUIRED BEFORE SCHEDULING A QUALIFICATION CLASS.
- CERTIFICATE AND I.D. ARE ONLY ISSUED ONCE PAYMENT HAS BEEN RECEIVED FOR TRAINING.
- TWO INSTRUCTORS MAY BE REQUIRED FOR 8 OR MORE WELDERS.
- A 2-3 HOUR POWERPOINT CLASS IS INCLUDED WITH TRAINING. A ROOM WITH PROJECTOR MAY BE NECESSARY.
- EACH WELDER MUST ACTIVELY COMPLETE A SINGLE THERMITE WELD TO BE QUALIFIED.
- CERTIFICATION IS VALID FROM ONE YEAR OF CLASS COMPLETION.
- PLEASE REVIEW ALL CHECKLISTS AND REQUIREMENTS FOR WELD TRAINING BEFORE SCHEDULING THE ACTUAL WELD TRAINING CLASS. CORRECT EQUIPMENT MUST BE USED FOR QUALIFICATION—NO EXCEPTIONS WILL BE MADE.
- RAILTECH BOUTET USES OXYGEN - PROPAINE (LP) OR HYDRAULIC PREHEATER WELDING METHODS ONLY.
- PLEASE CONTACT RAILTECH BOUTET FOR ANY QUESTIONS.

25 Interstate Drive - P.O. Box 69
Napoleon, OH 43545
Phone: (419) 592-5050
Fax: (419) 599-3630
distribution@railtechboutet.com
www.railtechboutet.com
### BASIC THERMITE WELDING TOOLS AND EQUIPMENT

#### ALIGNMENT TOOLS
1. 36" MAGNETIC STRAIGHT EDGE
2. TAPER GAUGE
3. 18" STRAIGHT EDGE

#### TORCH SETUP
1. PRECISION TORCH STAND
2. THERMITE TORCH TIP
3. THERMITE TORCH BODY
4. FLASHBACK ARRESTORS
   - NON QUICK-DISCONNECT
5. GAS / PRESSURE REGULATORS
6. ADEQUATE FUEL -
   - OXYGEN
   - PROPANE

#### WELD / MOLD SETUP
1. CORRECT WELDING KIT/ MOLDS
2. CRUCIBLE
3. IGNITERS
4. CORRECT WELD CHARGE
5. PACKING SAND (MUD)
6. TUBE PASTE

#### MOLD HARDWARE
1. MOLD JACKETS
2. MOLD CLAMP
3. BASE PLATE
4. SLAG PAN

#### TRACK / HYDRAULIC TOOLS
1. POWER SOURCE
2. SHEAR
3. PROFILE GRINDER
4. HAND / BICYCLE GRINDER
5. RAIL SAW W/ ARM
6. SAW BLADES & GRINDING STONES

#### TRACK TOOLS
1. DEMOLDER
2. CRUCIBLE FORK
3. 450°F TEMP STICKS / HEAT GUN
4. 12 LB SLEDGE HAMMER
5. HOT CUT CHISEL
6. SPIKE MAUL
7. SHOVELS / BALLAST FORK
8. BARS (CLAW & NEEDLE)
9. TRACK JACK

When completing a Railtech Boutet thermite weld, please make sure you have the items listed on this page under each heading. If you have any questions regarding the welding tools and equipment list, please contact Railtech Boutet, Inc. to speak with a Welding Technician.

Please reference the Railtech Boutet, Inc. Aluminothermic Welding Catalog at www.railtechboutet.com or contact our offices at 419.592.5050 for more information.
RAILTECH BOUTET, INC. THERMITE WELD TRAINING

For more detailed information regarding Weld Training and Setup, visit our “Products” page and click on “Training.”

The Railtech Boutet, Inc. Aluminothermic Welding System Manual can be found on our website, on the “Catalogs & Manuals” page, in the right column.
RAILTECH BOUTET PROUDLY ENDORSES AMERICAN-MADE HYDRAULIC TRACK-TOOLS FROM MATWELD

For operating manuals and product specs, please visit www.matweld.com.
For pricing, availability and other info, please contact Railtech Matweld at 1-888-MATWELD or 419-591-3770.
POWER UNITS
0100K DUAL CIRCUIT POWER UNIT

The Railtech Matweld Dual Circuit Power Unit is designed to deliver two 5 GPM or one 10 GPM circuits at 2000 PSI. A power unit-mounted hose reel, with a 50 foot hose, is available, as well as various carts and provisions to move the machine manually or power assisted.

ACCESSORIES:
00187-Kit- 00100K Lift Handle Kit
00195- Power Point
02326- Hose Reel with 50’ hose and mounting bracket
06300- Power Unit Mobility Cart
06327- Power Unit Mobility Kit
06600- Power Unit Transport Cart

ENGINE
23hp KOHLER
FUEL: GASOLINE
4 US GAL (15.14L)
START: ELECTRIC 12V

HYDRAULICS
(2) 5 GPM (19 LPM)
OR
(1) 10 GPM (38 LPM)
FLUID: HYDRAULIC
5 US GAL (18.9L)
2000 PSI (140 bar)

DIMENSIONS
A: 37” (94.0cm)
B: 24” (60.9cm)
C: 27” (68.5cm)

WEIGHT
321 lbs
(145.6 kg)

02900A DIESEL POWER UNIT

The Railtech Matweld 02900A Diesel Power Unit can be optionally equipped with catalytic converter, mobility kit and mounted hose reel. Engine protection devices are installed to protect the engine from low oil and high temperature.

ACCESSORIES:
02326- Hose Reel with 50’ hose and mounting bracket
02900C- w/Catalytic Converter
02998- Power Unit Lift Handle Kit
06100- Tamper Cart w/ 2 hose reels

ENGINE
18hp KUBOTA
FUEL: DIESEL
4 US GAL (15.14L)
START: ELECTRIC 12V

HYDRAULICS
(2) 5 GPM (19 LPM)
OR
(1) 10 GPM (38 LPM)
FLUID: HYDRAULIC
5 US GAL (18.9L)
2000 PSI (140 bar)

DIMENSIONS
A: 37” (94.0cm)
B: 24” (60.9cm)
C: 36” (91.4cm)

WEIGHT
465 lbs
(210 kg)
The Railtech Matweld Twin Power Unit is designed to deliver two 5 GPM circuits or one 10 GPM circuit at 2000 PSI for hydraulic tool operations. With the additional 5000 watt generator, AC powered equipment may be operated simultaneously. Quiet and efficient, this unit gives maintenance-of-way crews the versatility to operate safely and cost effectively in adverse conditions with a variety of equipment.

**ACCESSORIES:**
- 06300- Power Unit Mobility Cart
- 02326- Hose Reel with 50' hose and mounting bracket

**ENGINE**
- 23hp KOHLER
- FUEL: GASOLINE
- 4 US GAL (15.14L)
- START: ELECTRIC 12V

**HYDRAULICS**
- (2) 5 GPM (19 LPM)
- OR
- (1) 10 GPM (38 LPM)
- FLUID: HYDRAULIC
- 5 US GAL (18.9L)
- 2000 PSI (140 bar)

**DIMENSIONS**
- A: 36” (91.4cm)
- B: 25” (63.5cm)
- C: 32” (81.3cm)

**WEIGHT**
- 506 lbs (229.5 kg)

---

The Railtech Matweld Modular Power Unit is designed to be easily transported in two lightweight sections and it simply couples together for immediate use. It delivers 9 GPM of flow which will operate all critical hydraulic tools. Where size and weight are primary concerns, this unit is perfect for the job. Two compact sections allow for ease of getting into tight work locations while being lightweight and safe for operators to carry to the work site.

**ENGINE**
- 14hp KOHLER
- FUEL: GASOLINE
- 7.4 QTS (7.0 L)
- START: PULL

**HYDRAULICS**
- (1) 9 GPM (34 LPM)
- FLUID: HYDRAULIC
- 3.5 US GAL (13.2L)
- 2000 PSI (140 bar)

**DIMENSIONS**
- A: 36½” (92.7cm)
- B: 23½” (59.6cm)
- C: 25” (63.5cm)

**WEIGHT**
- ENGINE MODULE: 100lbs (45 kg)
- HYDRAULIC TANK MODULE: 65lbs (27 kg)
- 165lbs (74 kg)
03700A ELECTRIC POWER UNIT

The Railtech Matweld Electric Power Unit is designed to deliver two 5 GPM circuits or one 10 GPM circuit at 2000 PSI for hydraulic tool operations in buildings or other closed environments. This power unit is equipped with heavy duty wheels for mobility.

ACCESSORIES:
02326- Hose Reel with 50’ hose and mounting bracket

shown with mounted hose reel

06700 MOBILE DIESEL POWER UNIT

The Railtech Matweld Mobile Diesel Power Unit is a 2WD power unit designed for remote areas that are not readily accessible by conventional high rail methods. The handle bar style controls provide positive steering with forward and reverse travel at your fingertips. Track wheel outriggers allow for easy mobility down the rail.
The Railtech Matweld Mobility Cart is lightweight and highly versatile, it is simple to set-up and allows the operator to easily maneuver a power unit both on and off the rail. It can also be used as a tool trolley when no power unit is secured to it. The handles and rollers on this unit collapse for compact storage.

**DIMENSIONS**
- Length: 29" (73.6cm)
- Width: 39" (99cm)
- Height: 18 1/4" (46.3cm)

**WEIGHT**
- 96 lbs (43.5 kg)

---

The Railtech Matweld Power Unit Transport Cart is a 2WD mobility package designed to transport Matweld power units to remote areas that are not readily accessible by conventional high-rail methods. The handle bar-style controls provide positive steering with forward and reverse controls at your fingertips. Power to operate the cart (5 GPM @ 2000 PSI) is provided by the power unit being transported.

**MAX PAYLOAD**
- 425 lbs (953 kg)

**DIMENSIONS**
- Length: Handle collapsed - 45" (114.3cm)
- Width: 33" (83.8cm)
- Height: 36" (91.4cm)

**TIRES**
- Flat-Free Foamfilled

**WEIGHT**
- 187 lbs (84.8 kg)
The Railtech Matweld Track Rover is a hydraulic 4WD mobile work cart powered by a 23hp Kohler Engine or diesel Kobata Engine. It is ideal for derailment work or to transport railroad maintenance tools and/or supplies to remote areas not easily accessible by conventional high rail methods. The hydraulic-powered dump bed can be converted to a flat bed by removing bed side rails. A 12V DC standard power point is equipped and can be utilized with optional inverter for 120 volt application. Front and rear high intensity halogen lights are provided. Operator control is remote via a hand held radio transmitter.

ACCESSORIES:
- 12 Volt Inverter
- 5000 Watt Generator
- Flood Light Package
- Hydraulic Dump Bed Option
- 00300- 50’ Transmission Hose
- 00200- 25’ Transmission Hose
- 1500 lb., 12 Volt Power Winch
- 02326 50ft Hose Reel w/ mounting kit

The Railtech Matweld Hydraulic Manifold Circuit is a self contained flow and directional control assembly. The manifold can be installed on any vehicle which is already equipped with a hydraulic system capable of producing at least 10 GPM at 2000 PSI. The manifold can be installed and takes up very little space. The manifold circuit provides a safe and cost effective way of adding hydraulic tool capabilities to your existing fleet of equipment.

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<tr>
<td>OR</td>
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<tr>
<td>(1) 10 GPM (38 LPM)</td>
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<tr>
<td>2000 PSI (140 bar)</td>
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<td>W: 50” (127cm)</td>
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<td>H: 36” (91.4cm)</td>
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| BED: 40” x 67” |
| (101.6cm x 170.2cm) |

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<td>OR</td>
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<td>(1) 10 GPM (38 LPM)</td>
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<td>B - 7” (17.8cm)</td>
</tr>
<tr>
<td>C - 8½” (21.6cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 lbs</td>
</tr>
<tr>
<td>(14 kg)</td>
</tr>
</tbody>
</table>
The Railtech Matweld Hydraulic Intensifier is a complete, self-contained, safe, compact unit. The intensifier is designed to operate off of a 2000 PSI, 5 GPM power source. All Intensifiers have a relief pressure adjustable up to 10,000 PSI. This ensures a safe operation, not allowing the cylinders to receive excessive pressures.

<table>
<thead>
<tr>
<th>FLOW</th>
<th>5 GPM (19 LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE</td>
<td>2000 PSI (140 bar)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>A - 15” (38.1cm)</td>
</tr>
<tr>
<td></td>
<td>B - 8” (20.3cm)</td>
</tr>
<tr>
<td></td>
<td>C - 10½” (26.7cm)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>33 lbs (15 kg)</td>
</tr>
</tbody>
</table>

GRINDERS

*Railtech Matweld Grinders DO NOT include grinding stones and may need to be ordered separately, unless otherwise specified.
The Railtech Matweld Precision Frog Grinder is a hydraulic powered, track mounted machine that provides a precision guide-frame with multiple axis adjustment enabling the operator to make consistent refinishing grinds.

ACCESSORIES:
00499 - 8” x 1” x 5/8” Grinding Stone
09295 - 2’ Rail Kit
09299 - 4” x 3” x 5/8-11 Cup Grinding Stone
09290 - 2” Stone Adaptor Kit
09295 - Rail and 2” Adaptor Kit
09298 - 2” x 8” x 1” Stone

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

RPM
4000

DIMENSIONS
GRINDER
L: 17” W: 35” H: 32”

BASE:
L: 57½” W: 40” H: 8”

WEIGHT
BASE: 46 lbs (20.8 kg)
GRINDER: 88 lbs (39.9 kg)
OVERALL: 134 lbs (60.8 kg)

The Railtech Matweld Profile Grinder is a lightweight, precision grinding machine. The grinder is designed specifically for finish grinding of field welds and will grind the top and sides of the rail to the original profile.

ACCESSORIES:
02199 - 6” x 3” x 5/8” Grinding Stone

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

RPM
4000

DIMENSIONS
A - 34½” (87.63cm)
B - 20” (51cm)
C - 32” (81.3cm)

WEIGHT
67 lbs
(30.4 kg)
The Railtech Matweld Multi-Purpose Grinder allows operators to remain in an ergonomic upright position while performing field weld grinding. The adjustable rear handle positions easily for the operators preferred height and comfort or lowered and swiveled around for compact storage.

ACCESSORIES:
00499 - 8" x 1" x 5/8" Grinding Stone

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06950A MULTI-PURPOSE GRINDER

---

The Railtech Matweld Multi-Purpose Grinder allows operators to remain in an ergonomic upright position while performing multiple grinding tasks. Lightweight, and with adjustable positions for the grinding head and rail guide, field welds, switch points and frogs can be easily ground with this one tool. The adjustable rear handle positions easily for the operators preferred height and comfort or lowered and swiveled around for compact storage.

ACCESSORIES:
00499 - 8" x 1" x 5/8" Grinding Stone
06940 - Housing Rotation Locking Unit

---

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

RPM
4000

DIMENSIONS
A - 40" (101.6cm)
B - 22" (55.9cm)
C - 34" (86.4cm)

WEIGHT
43 lbs (19.5 kg)

---

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

RPM
4000

DIMENSIONS
A - 40" (101.6cm)
B - 24" (60.7cm)
C - 34" (86.4cm)

WEIGHT
52 lbs (23.6 kg)
The Railtech Matweld Frog/Profile Grinder is a lightweight, precision grinding machine. The grinder is designed for frog and finish grinding of field welds. The roll-over feature makes ergonomic grinding of the rail to the original profile easy. An optional detachable Frog Grinding Outrigger is available for grinding Frogs. The flap-type spark guard prevents sparks from being discharged on adjacent combustible material.

**ACCESSORIES:**
- 02199 - Grinding Stone
- 05999 - Grinding Outrigger

**FROG / PROFILE GRINDER**

**05900**

**ACCESSORIES:**
- 02199 - Grinding Stone
- 05999 - Grinding Outrigger

**05950**

**FLOW**
10 GPM (38 LPM)

**PRESSURE**
2000 PSI (140 bar)

**RPM**
4000

**DIMENSIONS**
A - 40" (101.6cm)
B - 16" (40.6cm)
C - 34" (86.4cm)

**WEIGHT**
85 lbs (38.5 kg)

---

The Railtech Matweld Surfacing Guide is a rugged but lightweight grinding tool designed specifically for grinding the top of the rail. It is excellent for the finish grinding of field welds or rail end repairs. The extended guard offers excellent protection for the operator.

**ACCESSORIES:**
- 00733-Kit - Type 6 Stone Adaptor
- 00797 - Type 6 Stone 8" x 2" x 1½"
- 00799 - 8" x 2" x 4" Cup Stone

Note: Model 00700C has factory installed Type 6 Stone Adaptor (00733-Kit) for use exclusively for a type 6 stone (00797).

**FLOW**
10 GPM (38 LPM)

**PRESSURE**
2000 PSI (140 bar)

**RPM**
4000

**DIMENSIONS**
A - 39" (99cm)
B - 12" (30.5cm)
C - 26" (66cm)

**WEIGHT**
75 lbs (34 kg)
The Railtech Matweld Straight Stone Grinder is a powerful and safe grinding tool for use on field welds, frogs, switch points, etc. The tool has an on-off valve or trigger, high strength aluminum housing and rigid handles for safe use by the operator.

NOTE: Rotation direction is determined by looking directly at the face of the installed grinding stone.

### ACCESSORIES:
- 00499 - 8” x 1” x 5/8” Grinding Stone
- 046009 - 1” Stone Adaptor
- 046015 - Slotting Guide Kit

### SPECIFICATIONS:
- **FLOW**
  - 10 GPM (38 LPM)
- **PRESSURE**
  - 2000 PSI (140 bar)
- **RPM**
  - 4000
- **DIMENSIONS**
  - A - 21” (53.3cm)
  - B - 8” (20.3cm)
  - C - 7½” (19cm)
- **WEIGHT**
  - 20 lbs (9 kg)

---

The Railtech Matweld Chamfer Tool is a light weight powerful maintenance-of-way tool ideal for chamfering drilled holes. Utilizing low rpm & high torque permits the operator safe and long lasting service of chamfer bits.

### ACCESSORIES:
- 07550 - Chamfer Bit: Hole Chamfer range from 5/8” to 1¾”

### SPECIFICATIONS:
- **FLOW**
  - 5 GPM (19 LPM)
  - OR
  - 10 GPM (38 LPM)
- **PRESSURE**
  - 2000 PSI (140 bar)
- **RPM**
  - 160
- **DIMENSIONS**
  - A - 14” (35.6cm)
  - B - 8” (20.3cm)
  - C - 7½” (19cm)
- **WEIGHT**
  - 18 lbs (8.16 kg)
The Railtech Matweld Cup Stone Grinder is designed for grinding the tops of frogs and rail. The unique stone adjustment feature allows the operator to easily adjust the guard as the stone wears, without the need for wrenches. The wrap around handle design gives the operator complete control of the tool.

ACCESSORIES:
02199 - 6” x 3” x 5/8” Grinding Stone

The Railtech Matweld 8” Cup Stone Grinder is designed for use in grinding the tops of frogs and rail. The unique stone adjustment feature allows the operator to easily adjust the guard as the stone wears without the need for wrenches. The double handles give the operator complete control of the tool.

Note: Model 00600C has factory installed Type 6 Stone Adaptor (00733-Kit) for use exclusively for a type 6 stone (00797).

ACCESSORIES:
00799 - 8” x 2” x 4” Plate Mounted Cup Stone (exclusive use with the model 00600)
00733-KIT - Type 6 Stone Adapter Kit
00797 - 8” x 2” x 1½” Type 6 Stone
The Railtech Matweld Angle Grinder is a multipurpose grinding and cutting tool which accepts a variety of accessory attachments. It can be used for removing rust and scale, grinding rail welds, frog points, or anywhere a detailed grind is required. The head assembly is a adjustable to rotate 360 degree for operator comfort.

ACCESSORIES:
Grinding Stones and cut-off wheels available.
Specify size.

The Railtech Matweld Head-Wash Grinder (HWG) is a hydraulic powered, track mounted machine that is designed to efficiently grind the ball of the rail in preparation for the Railtech Head-Wash Repair Weld (HWR). This specially designed grinder provides a precision grind to compliment the HWR process in defect removal. The compact and lightweight grinder allows for quick set-up and breakdown on track while the ergonomic profile allows the operator to quickly and comfortably grind the ball to the appropriate depth and width.

ACCESSORIES:
09298 - 8” x 2” x 1” Stone
09281 - HWR Depth Gauge
SAWS / WELD SHEARS
The Railtech Matweld Reversing Rail Saw is a hydraulic powered abrasive rail saw that can cut rail from either side of the rail safely without disconnecting or realignment; simply pivoting the saw to the other side of the rail provides the flexibility and safety that is needed on track.

ACCESSORIES:
00897 - 14” Saw Blades
00899 - 16” Saw Blades

The Railtech Matweld Rail Saw is a hydraulic powered abrasive rail saw that uses a 14” or 16” diameter blade to cut rail. A sturdy pivot arm securely clamps to the rail and guides the saw during operation. Free axis movement of the tool allows cutting on either side of the rail and clean separations average well under two minutes. Sturdy construction and quality components ensure low maintenance and long life of the tool.

ACCESSORIES:
00897 - 14” Saw Blades
00899 - 16” Saw Blades
The Railtech Matweld Weld Shear is lightweight and highly efficient. Spring centered flow control valve permits safe and precise shearing of a thermite weld. The shield totally protects fittings and hoses and the adjustable hold-downs are self locking and will assure a safe, clean cut.

ACCESSORIES:
00980 - 132lb/136lb Shear Blades
00965 - 115lb Shear Blades

Additional shear blades available

---

The Railtech Matweld Weld Shear is lightweight and highly efficient. Spring centered flow control valve permits safe and precise shearing of a thermite weld. The shield totally protects fittings and hoses and the adjustable hold-downs are self locking and will assure a safe, clean cut.

The weld shear is equipped with a factory set adjustable hydraulic flow cartridge to assure the time to fully stroke the shear blades during an actual shear operation is between 16 and 18 seconds.

ACCESSORIES:
00980 - 132lb/136lb Shear Blades
00965 - 115lb Shear Blades

Additional shear blades available
The Railtech Matweld Hand Pump Weld Shear is a self contained Hydraulic Weld Shear. The adjustable hold downs are self locking and will assure a clean safe cut. The average cycle time is 30-45 seconds to shear a weld. The hand pump model can be converted to operate with the Matweld Power Unit with very minor modifications.

ACCESSORIES:
00980 - 132lb/136lb Shear Blades
00965 - 115lb Shear Blades

Additional shear blades available
DRILLS / IMPACT WRENCHES
The Railtech Matweld Self Feed Rail Drill is a lightweight maintenance tool that offers cost effective operation. Maintenance crews will appreciate the simple clamp for quick setup on track. The use of Arrowhead inserts (patented), allows for quick drilling time and precision holes. The drill includes a lubrication system.

ACCESSORIES:
03532 - Rail templates (Specify Rail Profile)
01540 - Index bars (Specify Rail Profile)
03598 - Storage Case
03599 - Biodegradable cutting fluid (1 or 5 US Gallon)
-Assortment Of Carbide Drill Bit Inserts

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

DIMENSIONS
A - 35” (89cm)
B - 9” (22.8cm)
C - 15½” (39.4cm)

WEIGHT
68 lbs
(31 kg)

The Railtech Matweld Self Feed Rail Drill is a lightweight maintenance tool that offers cost effective operation. Maintenance crews will appreciate the simple clamp for quick setup on track. The use of Arrowhead inserts (patented), allows for quick drilling time and precision holes. The drill includes a lubrication system.

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10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

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A - 35” (89cm)
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C - 15½” (39.4cm)

WEIGHT
68 lbs
(31 kg)

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03598 - Storage Case
03599 - Biodegradable cutting fluid (1 or 5 US Gallon)
-Assortment Of Carbide Drill Bit Inserts

FLOW
10 GPM (38 LPM)

PRESSURE
2000 PSI (140 bar)

DIMENSIONS
A - 35” (89cm)
B - 9” (22.8cm)
C - 15½” (39.4cm)

WEIGHT
68 lbs
(31 kg)
SELF-FEED RAIL DRILL: RAIL TEMPLATES AND INDEXING BAR OPTIONS

RAIL TEMPLATES:

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>03532-2</td>
<td>100 AREA - U.P. / 105 DUDLEY</td>
<td>03532-16</td>
<td>22 KG/M</td>
</tr>
<tr>
<td>03532-3</td>
<td>133 AREA / 140 AREA</td>
<td>03532-17</td>
<td>30 KG/M</td>
</tr>
<tr>
<td>03532-4</td>
<td>127 DUDLEY / 130 PS</td>
<td>03532-18</td>
<td>48 KG/M</td>
</tr>
<tr>
<td>03532-5</td>
<td>90 A.R.A.-B</td>
<td>03532-19</td>
<td>57 KG/M</td>
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<td>03532-6</td>
<td>90 A.R.A.-A</td>
<td>03532-20</td>
<td>152 PS</td>
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<td>03532-7</td>
<td>110 AREA / 110 AREA - U.P.</td>
<td>03532-9</td>
<td>112-115-119 / 141 AB</td>
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<tr>
<td>03532-8</td>
<td>100 AREA (2-45/64&quot; TO CENTERLINE OF HOLE)</td>
<td>03532-10</td>
<td>131-132-136 RE / 133 RE</td>
</tr>
<tr>
<td>03532-9</td>
<td>100 A.R.A.-B</td>
<td>03532-11</td>
<td>85 A.S.C.E</td>
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<tr>
<td>03532-10</td>
<td>2-1/2 x 6-1/2</td>
<td>03540-1</td>
<td>2-11/16 x 5-1/2</td>
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<tr>
<td>03532-11</td>
<td>2-1/2 x 6</td>
<td>03540-2</td>
<td>2-1/2 x 6-1/2</td>
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<td>03532-12</td>
<td>2-1/2 x 6-1/2</td>
<td>03540-3</td>
<td>2-3/4 x 5-5/8</td>
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<td>03532-13</td>
<td>2-13/32 x 5 x 5</td>
<td>03540-4</td>
<td>2-11/32 x 5 x 5</td>
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<tr>
<td>03532-14</td>
<td>3 x 6-1/2 x 6-1/2</td>
<td>03540-5</td>
<td>2-23/32 x 6 x 7</td>
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<td>03532-15</td>
<td>2-1/2 x 6</td>
<td>03540-6</td>
<td>2 x 7</td>
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<td>03532-16</td>
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<td>03540-7</td>
<td>2-3/4 x 5-39/64 x 5-39/64</td>
</tr>
<tr>
<td>03532-17</td>
<td>2-1/2 x 5</td>
<td>03540-8</td>
<td>2-7/16 x 6-1/2</td>
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<tr>
<td>03532-18</td>
<td>2-1/2 x 5</td>
<td>03540-9</td>
<td>3 x 6-1/2 x 6-1/2</td>
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<td>03532-19</td>
<td>2-1/2 x 5</td>
<td>03540-10</td>
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<td>2-1/2 x 6</td>
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INDEXING BARS:

<table>
<thead>
<tr>
<th>INDEXING BARS</th>
<th>DIMENSIONS</th>
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<tbody>
<tr>
<td>01540-1</td>
<td>2-11/16 x 5-1/2</td>
</tr>
<tr>
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<td>2-1/2 x 6-1/2</td>
</tr>
<tr>
<td>01540-3</td>
<td>3-1/2 x 6 x 6</td>
</tr>
<tr>
<td>01540-4</td>
<td>2-13/32 x 5 x 5</td>
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<tr>
<td>01540-5</td>
<td>2-3/4 x 5-5/8 x 5-5/8</td>
</tr>
<tr>
<td>01540-6</td>
<td>2-11/32 x 5 x 5</td>
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<tr>
<td>01540-7</td>
<td>2-23/32 x 6 x 7</td>
</tr>
<tr>
<td>01540-8</td>
<td>2 x 7</td>
</tr>
<tr>
<td>01540-9</td>
<td>2-3/16 x 4-1/2</td>
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</tbody>
</table>

INDEXING BARS:

<table>
<thead>
<tr>
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<th>DIMENSIONS</th>
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</thead>
<tbody>
<tr>
<td>01540-1</td>
<td>2-11/16 x 5-1/2</td>
</tr>
<tr>
<td>01540-2</td>
<td>2-1/2 x 6-1/2</td>
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<td>01540-3</td>
<td>3-1/2 x 6 x 6</td>
</tr>
<tr>
<td>01540-4</td>
<td>2-13/32 x 5 x 5</td>
</tr>
<tr>
<td>01540-5</td>
<td>2-3/4 x 5-5/8 x 5-5/8</td>
</tr>
<tr>
<td>01540-6</td>
<td>2-11/32 x 5 x 5</td>
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<tr>
<td>01540-7</td>
<td>2-23/32 x 6 x 7</td>
</tr>
<tr>
<td>01540-8</td>
<td>2 x 7</td>
</tr>
<tr>
<td>01540-9</td>
<td>2-3/16 x 4-1/2</td>
</tr>
</tbody>
</table>

ACCESSORIES:

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
<th>SPECIFY SIZE</th>
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<tbody>
<tr>
<td>Drill Bits</td>
<td>Specify Size</td>
</tr>
<tr>
<td>Form Blocks</td>
<td>Specify Size</td>
</tr>
<tr>
<td>Index Bars</td>
<td>Specify Size</td>
</tr>
</tbody>
</table>

The Railtech Matweld Hydraulic Rail Drill is a small, dependable and efficient maintenance tool that offers cost-effective operation under adverse conditions. Simple clamp and height adjustment mechanisms allow quick set-up time on a variety of track configurations. The drill has a quick-set indexing bar that provides accurate hole spacing. Standard flat spade bits are used and can be changed in seconds without the need for wrenches. The rail drill includes a lubrication system.

ACCESSORIES:

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
<th>SPECIFY SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill Bits</td>
<td>Specify Size</td>
</tr>
<tr>
<td>Form Blocks</td>
<td>Specify Size</td>
</tr>
<tr>
<td>Index Bars</td>
<td>Specify Size</td>
</tr>
</tbody>
</table>

01500 RAIL DRILL

FLOW
5 GPM (19 LPM)

PRESSURE
2000 PSI (140 bar)

DIMENSIONS
A - 35" (89cm)
B - 13" (33cm)
C - 25" (63.5cm)

WEIGHT
63 lbs
(28.6 kg)
01600A 5 GPM 1" IMPACT WRENCH

The 1" Impact wrench is capable of handling the toughest jobs. Crossing, frog or track bolts are no problem for this rugged tool. Optional handles allow the operator to modify the tool to provide an efficient, safe and ergonomic work position for the task at hand. A torque adjustment knob fine-tunes torque from 0-3500 ft/lb. Designed for 5 GPM operation, permits simultaneous use of another 5 GPM tool on the Railtech Matweld dual circuit power unit, maximizing efficiency of a multi-man crew.

ACCESSORIES:
01635 - Stand Up Handle
01669 - Crossing Handle
Sockets Available - Specify Requirements

FLOW
5 GPM (19 LPM)

PRESSURE
2000 PSI (140 bar)

DIMENSIONS
A - 17½" (44.5cm)
B - 8" (20.3cm)
C - 9" (22.8cm)

WEIGHT
33 lbs
(15 kg)

01600A 5 GPM 1" IMPACT WRENCH ACCESSORIES

Note: For proper size retaining ring, match number in parentheses of socket ordered with last digit of retaining ring part number. Other size sockets and retaining rings available upon request.

ACCESSORIES:
01635 Stand Up Handle
01650 Torque Adjustment Gauge
01665 (3) 7/8" Impact Socket
01667 (1) 1-1/8" Impact Socket
01669 Crossing Handle
01670 (1) 1-5/16" Impact Socket
01677 (2) 1-1/2" Impact Socket
01680 (2) 1-5/8" Impact Socket
01685 (2) 1-13/16" Impact Socket
01686 (2) 1-7/8" Impact Socket
01690 (2) 2-3/16" Impact Socket
10000-1 Socket Retaining Ring 2.13" (2-1/8) Diameter
10000-2 Socket Retaining Ring 2.38" (2-3/8) Diameter
10000-3 Socket Retaining Ring 1.75" (1-3/4) Diameter
10000-4 Socket Retaining Ring 2.63" (2-5/8) Diameter
## 02500  10 GPM 1” IMPACT WRENCH

The 1” Impact wrench is capable of handling the toughest jobs. Crossing, frog or track bolts are no problem for this rugged tool. Anti-vibration design and optional handle provide an efficient, safe and ergonomic work position for the task at hand. A torque adjustment knob will fine-tune torque from 0-3500 ft/lb. Designed for 5 GPM or 10 GPM.

<table>
<thead>
<tr>
<th>ACCESSORIES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>02575 - Stand Up Handle</td>
</tr>
<tr>
<td>Sockets Available - Specify Requirements</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>FLOW</th>
<th>5 GPM (19 LPM) OR 10 GPM (38 LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE</td>
<td>2000 PSI (140 bar)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>A - 18” (45.7cm)</td>
</tr>
<tr>
<td></td>
<td>B - 8” (20.3cm)</td>
</tr>
<tr>
<td></td>
<td>C - 10” (25.4cm)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>37 lbs (16.8 kg)</td>
</tr>
</tbody>
</table>

## 04500D  ½” HYDRAULIC DRILL / IMPACT WRENCH

The Railtech Matweld ½” Impact wrench is designed to offer the operator superior torque handling capabilities under the most adverse conditions. Operators will appreciate the lightweight aluminum body and the ergonomic trigger design. The impact is shipped with a 7/16” quick change chuck for a wide variety of bits and accessories. A ½” square drive is included for the use of ½” impact sockets.

<table>
<thead>
<tr>
<th>ACCESSORIES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>01743 - Counter Bore 1½”</td>
</tr>
<tr>
<td>01750 - Counter Bore 2-9/16”</td>
</tr>
<tr>
<td>01751 - Counter Bore 3”</td>
</tr>
<tr>
<td>01775 - 1/2” x 12” Auger Bit</td>
</tr>
<tr>
<td>01782 - 9/16” x 18” Auger Bit</td>
</tr>
<tr>
<td>01777 - 11/16” x 12” Auger Bit</td>
</tr>
<tr>
<td>01781 - 11/16” x 18” Auger Bit</td>
</tr>
<tr>
<td>01795 - ¾” x 18” Auger Bit</td>
</tr>
<tr>
<td>045046 - Adapter ½” Square Drive</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>FLOW</th>
<th>5 GPM (19 LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE</td>
<td>2000 PSI (140 bar)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>A - 10” (25.4cm)</td>
</tr>
<tr>
<td></td>
<td>B - 7” (17.8cm)</td>
</tr>
<tr>
<td></td>
<td>C - 7” (17.8cm)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>13 lbs (6 kg)</td>
</tr>
</tbody>
</table>
RAIL PULLER / TAMPER / MISC.
The Railtech Matweld 03100C is a hydraulic actuated 120 ton rail puller. Operators will appreciate the single unit construction allowing quick set up time. The operator station houses an integrated intensifier and control valve manifold. Clamping blocks are captured and this self-aligning design is preloaded hydraulically for a safe and efficient pull.

**ACCESSORIES:**
- 03101C - Clamping Block
- 03175 - Lifting Beam

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![Image of 03100C Rail Puller](image)

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**08300 SPIKE DRIVER**

The Railtech Matweld Spike Driver is equipped with torsion dampened handles which reduce the vibration level to a minimum. An excellent heavy duty tool designed to drive spikes and hairpins into the toughest ties in seconds.

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![Image of 08300 Spike Driver](image)

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The new Railtech Matweld Spike Puller is twenty five percent (25%) lighter than our standard version. Weighing only 39 pounds, it generates the same pulling force of 13,000 pounds in a lighter design. A safe, internal two-speed design ensures operators grasp the spike with a slower speed, avoiding a jerking motion common with most spike pullers. The safety trigger provides a positive lock that prevents accidental activation of the tool. Its efficient design enables the operator to grab the spike from either side of the rail without repositioning, yet allowing the operator to pull and automatically drop the spike at the top of the stroke in one motion. All moving parts are fully enclosed for safety and the jaws can be changed without special tools within minutes at the work site.

ACCESSORIES:
01145 - Hair Pin Puller Kit

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The Railtech Matweld Hydraulic Tamper is equipped with torsion dampened handles which reduce the vibration level to a minimum. An excellent multi-purpose tool that can tamp, cut asphalt or break concrete.

ACCESSORIES:
01362 - Tamper Bit
01365 - Spiker Bit
01370 - Asphalt Cutter Bit
01375 - Concrete Breaker

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Railtech Matweld reserves the right to change parts, features, or specifications without notice.
The Railtech Matweld Bridge Spreader is the ideal tool for crews doing bridge maintenance. The hydraulic circuit is equipped with a remote power up and down control manifold with built in flow control for protection and comes with a 25 foot transmission hose. Cylinders are pre-piped, terminating at quick disconnect couplers which allow for quick setup time.

**ACCESSORIES:**

02850-Kit: Bridge Jack / Spreader Stool

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The Railtech Matweld Bridge Spreader Stool is a complete system with no additional pieces or chains required. Quick and secure connection around pylons ensures for minimal setup time at the work site. Designed for use along with the Matweld Bridge Spreader, the system can quickly and safely be installed wherever the bridge repairs are required.

**ACCESSORIES:**

02850-Kit: Bridge Jack / Spreader Stool

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**FLOW**

5 GPM (19 LPM)

**PRESSURE**

2000 PSI (140 bar)

**DIMENSIONS**

A - 194" (492.8cm)
B - 6" (15.2cm)
C - 29" (73.7cm)

**WEIGHT**

02800A: 1619 lbs (734.3 kg)
02800-6: 1780 lbs (807.4 kg)

**DIMENSIONS**

A - 14-1/2" (36.8cm)
B - 12" (30.5cm)
C - 14" (35.6cm)

**WEIGHT**

Stool: 48 lbs. (22 kg.)
Pin: 12 lbs. (5 kg.)
Chain Assembly: 32 lbs. (15 kg.)

SPECIAL CHAIN LENGTH AVAILABLE UPON REQUEST

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**KIT CONSIST OF:**

(1) STOOL,
(1) PIN,
AND (1) 48"LG. CHAIN ASSEMBLY

**KIT CONSIST OF:**

(1) STOOL,
(1) PIN,
AND (1) 48"LG. CHAIN ASSEMBLY
The Railtech Matweld Spring Anchor Applicator is a lightweight and labor saving tool for the maintenance-of-way crew. A safe and quick method of installing spring anchor clips, which does not require “brute force” for clip installation. The tool utilizes a pivoting foot design with seven tons of force available to install the toughest clips. Operators will appreciate the clear view during installation.

**ACCESSORIES:**
01225- Head Worn Rail Kit

**01200 SPRING CLIP APPLICATOR**

<table>
<thead>
<tr>
<th>FLOW</th>
<th>5 GPM (19 LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR</td>
<td>10 GPM (38 LPM)</td>
</tr>
<tr>
<td>PRESSURE</td>
<td>2000 PSI (140 bar)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>W - 15” (38.1cm)</td>
</tr>
<tr>
<td></td>
<td>H - 43” (114.3cm)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>48 lbs (21.7 kg)</td>
</tr>
</tbody>
</table>

**RAILTECH MATWELD SERVICE CENTER**

We refurbish and rebuild all of our equipment to factory specifications and according to our strict manufacturing standards. We offer our complete inventory at factory-direct pricing and test all tools to ensure safe and reliable operation.

Railtech Matweld can offer hydraulic safety training as well as equipment and hydraulic power source diagnostics. Our representatives have the capabilities necessary to meet you on-site to troubleshoot your power source and to help make recommendations to keep you operating with minimum equipment down time and increased reliability.

Contact us to coordinate your equipment repairs and diagnostics.

**RAILTECH MATWELD**

**SERVICE CENTER**
3505 Clarks River Rd.
Paducah, KY 42003
270-444-0096
www.matweld.com
General Notes:
OUR MISSION
Railtech strives to provide customers with industry leading products, support and top level service from over 100 years of experience in the railway Industry.