tig brush®
ALWAYS LEADING

INDUSTRY'S LEADING STAINLESS STEEL ELECTROCHEMICAL WELD CLEANING SYSTEM



Ensitech 2026

PRODUCT CATALOGUE

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ensitech®
Manufacturer of the TIG Brush

tig brush®



OUR STORY

In 2004, a unique challenge led to the birth of Ensitech and the TIG Brush. As an electrical engineer, I was tasked with solving a key issue in stainless steel welding: the unsightly black oxide, or "heat tint", that formed post-welding, compromising both aesthetics and corrosion resistance. Traditional methods like pickling paste and abrasives were either hazardous or damaging to the metal's finish.

Our solution? A groundbreaking conductive high-temperature brush, perfected through nights and weekends of dedicated innovation alongside a skilled aeronautical engineer.

Launched in 2006, the TIG Brush Stainless Steel Weld Cleaning System was a game-changer to the industry. It safely and effectively removed heat tint without altering the metal's surface. Its initial reception in Australia was just the beginning. The TIG Brush rapidly became the hallmark of quality in stainless steel weld cleaning. Proudly Australian based and manufactured, and exported to over 33 countries worldwide, the TIG Brush has catapulted Ensitech to global leadership in metal surface finishing.

Clive White
CEO & Founder

AUSTRALIAN MADE

ensitech®

WARRANTY

tigbrush.com/warranty

ENSITECH MANUFACTURER'S WARRANTY

Ensitech Pty Ltd provides warranty against defects that are a result of faulty manufacturer workmanship or materials. You may claim on this warranty if you notify Ensitech of the defect and if you comply with the other procedures and conditions of this warranty, within:

- in the case of the TIG Brush® control unit, 24 months or 30 months*; or
- in the case of the PROPEL Torch, Slimline PROPEL Torch, brushes and fluids; 3 months
- in the case of accessories and consumables, 3 months; or
- in the case of spare parts, 1 month of the date of purchase of the product by you.

The warranty applies to and can be exercised by the original purchaser of the product only.

This warranty is not transferrable to any other person or party under any circumstances.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for major failure and for compensation for any reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For full warranty details consult your Instruction Manual or our website **www.tigbrush.com.**

SCAN ME

*Ensitech offers an extended 6-month warranty on any new TIG Brush control unit that has its warranty information registered online. Your TIG Brush extended warranty is issued on the condition that you complete your online warranty activation within 30 days of purchase, and purchase verification is attached.

WELD CLEANING MACHINES

TIG Brush 330 04
TIG Brush 440 05
TIG Brush 550 06
TIG Brush 700 07

COMPONENTS & ACCESSORIES

Components 14
Accessories 14

PREMIUM RANGE OF FLUIDS

Pre-weld Cleaning, Weld Cleaning, Neutralising, Finishing and Branding 17

TIG BRUSH BRAND KIT

Branding 21
Stencils 21

330 SERIES

Power in a Compact Specific-Purpose Unit.

The 330 has been made more affordable by the singular design focus on cleaning & passivation. Experience the power, simplicity and safety of professional weld cleaning in a compact, purpose-focused unit designed for the occasional stainless steel welder.



TIG Brush 330 Features and Benefits:

- Passivation focused: cleans and instantaneously passivates the weld bead and stainless-steel surfaces as well as back burn.
- Single purpose, easy set-up, and simple operation controls.
- Brightly colored, designed for portability and suitable for onsite and in the workshop.
- Compatible with all single brush TIG Brush application tools.
- 100% Duty Cycle
- Patented Dynamic Power Transfer

TIG Brush 330 TBE & TBX SPECIFICATIONS

Input Current	Max. Output	Duty Cycle	Power Supply	Power Output	Weight	Dimensions mm	IP Rating
2-4 amps (average)	60 amps	100%	Dynamic Power Transfer 440VA	AC	7.5kg 16.5lbs	245W x 190D x 370H	IP64 Dust & Splashproof

440 SERIES

Peak Performance, Unmatched Value

The 440 includes the latest advances in TIG Brush technology, while still being affordable and easy to use. It is the perfect match for those seeking a budget-friendly machine that can handle a moderate amount of stainless steel cleaning.

TIG Brush 440 Features and Benefits:

- Perfect for those who don't need top-of-the-line but find themselves welding regularly.
- Budget-friendly while still being durable enough to tackle light to medium oxidation.
- Passivation ensures your welds stand the test of time.
- Clean, Polish and Branding capabilities.
- Compatible with all single brush TIG Brush application tools.
- 100% Duty Cycle
- Patented Dynamic Power Transfer



TIG Brush 440 TBE & TBX SPECIFICATIONS

Input Current	Max. Output	Duty Cycle	Power Supply	Power Output	Weight	Dimensions mm	IP Rating
4 amps (average)	60 amps	100%	Dynamic Power Transfer 440VA	AC/DC	11kg 24.2lbs	245W x 190D x 370H	IP64 Dust & Splashproof

550 SERIES

Power Meets Efficiency



The TIG Brush 550 is a high-performance weld cleaning machine built for demanding stainless steel applications, delivering reliable mid- to heavy-duty power at an exceptional value.

TIG Brush 550 Features and Benefits:

- Ideal for medium to heavy-duty requirements, this machine is perfect for the serious welder.
- Increases productivity while decreasing your workload — level up your efficiency game!
- Reliable and able to handle a variety of material thicknesses and welds, quickly and efficiently.
- Simple to set-up and use.
- Fast and reliable performance that has stood the test of time.
- Clean, Polish and Branding capabilities.
- Compatible with all single and dual brush TIG Brush application tools.
- 100% Duty Cycle
- Patented Dynamic Power Transfer

TIG Brush 550 TBE & TBX SPECIFICATIONS

Input Current	Max. Output	Duty Cycle	Power Supply	Power Output	Weight	Dimensions mm	IP Rating
6 amps (average)	80 amps	100%	Dynamic Power Transfer 550VA	AC/DC	12kg 26.5lbs	245W x 190D x 370H	IP64 Dust & Splashproof

700 SERIES

Unrivaled Speed, Ultimate Power

When only the best will do! The TIG Brush 700 stands unrivalled as the fastest, safest, most powerful, and most reliable electrochemical weld cleaner on the market.

TIG Brush 700 Features and Benefits:

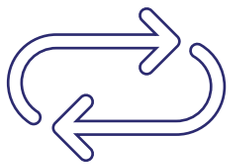
- The market leader in weld cleaning performance.
- Cleans and passivates TIG, MIG, MAG, Sub Arc, Stick, Laser & etc.
- The fastest and most powerful unit for those who need the best.
- Perfect for heavy-duty projects delivering quality, visually pleasing finished welds that last.
- Simple to set-up and use.
- Clean, Polish and Branding capabilities.
- Compatible with all single and multi brush TIG Brush application tools.
- 100% Duty Cycle
- Patented Dynamic Power Transfer

TIG Brush 700 TBE & TBX SPECIFICATIONS

Input Current	Max. Output	Duty Cycle	Power Supply	Power Output	Weight	Dimensions mm	IP Rating
8 amps (average)	100 amps	100%	Dynamic Power Transfer 700VA	AC/DC	12kg 26.5lbs	245W x 190D x 370H	IP64 Dust & Splashproof

TIG Brush Features and Benefits at a Glance

- High quality & reliable, Australian design and manufacture.
- Cleans stainless steel welds quickly and passivates instantaneously.
- Dense carbon fibre brushes.
- IP64 rated (dust and showerproof).
- Quick setup, simple controls and fast results.
- No fan and vents: no risk of dust build-up or damage to the internal electronics.
- Durable high current industry standard 16mm^2 cables.
- Wide brush options for larger cleaning surfaces.
- Designed for portability and stability.
- NSF approved fluids for electrolytic cleaning, neutralising, and finishing.
- Branding capability: print or engrave logos and other marks effortlessly onto stainless steel (excludes 330 model).



PATENTED DYNAMIC POWER TRANSFER

To ensure a reliable and safe experience, the TIG Brush features a unique variable power supply, enabled by our patented Dynamic Power Transfer. This innovative system dynamically adjusts the power, maintaining optimal current levels for efficient and consistent performance, even as the brush wears. This ultimately means longer brush life and a better quality finish.

100% DUTY CYCLE

Manufacturers often reduce costs by using components that can't operate continuously, necessitating a 'duty cycle' – the percentage of time a machine can run before needing a cool-down period. Unlike these machines, the TIG Brush weld cleaning machine boasts a 100% duty cycle. This means it can operate non-stop, regardless of the intensity or duration of use, without ever needing a 'rest' period. It's designed for continuous, uninterrupted performance, setting it apart from most competitors.

	HEAT TINT REMOVAL			WIDTH TO CLEAN			CLEANING SPEED			MATERIALS THICKNESS			FUNCTIONS		
	TIG	MIG	MAG, STICK, LASER	<12MM (.5")	<38MM (1.5")	<88MM (3.5")	STD	FAST	EXTRA FAST	<6MM (.25")	<13MM (.5")	<25MM (1")	CLEAN	POLISH	BRAND
330	✓			✓			✓			✓			✓		
440	✓			✓			✓			✓			✓	✓	✓
550	✓	✓			✓			✓			✓		✓	✓	✓
700	✓	✓	✓			✓			✓			✓	✓	✓	✓





TIG Brush SELECTOR GUIDE

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Use the table below to decide which TIG Brush model and Cleaning Tool best suits your application.



LokWand

This innovative accessory offers a sliding wand solution that can be effortlessly locked into place, providing you with unparalleled control.



Slimline PROPEL

This next-generation torch boasts an ergonomic stationary shroud. Its sleek, slimmed-down design effortlessly navigates those intricate, hard-to-reach areas.

PERFORMANCE GUIDE

Optimum	●
Efficient	◎
Occasional	○



TBX-330



TBX-440

WELD TYPE	LokWand	Slimline	Flexi	LokWand	Slimline	Flexi
TIG Weld	●	●	●	●	●	●
Laser Cut	○	◎	○	○	◎	○
MIG Weld		○			○	
MAG Weld						
Sub Arc						
Stick Weld						
Laser/Gas						
Gasless						

OXIDATION LEVEL	LokWand	Slimline	Flexi	LokWand	Slimline	Flexi
Light	●	●	●	●	●	●
Medium	○	◎	○	○	◎	○
Heavy						



METAL GRADE	LokWand	Slimline	Flexi	LokWand	Slimline	Flexi
SS200, SS304, SS316 and SS400	●	●	●	●	●	●
Duplex						
Super Duplex						
Mild Steel	○	◎	○	○	◎	○

OTHER FUNCTIONS	LokWand	Slimline	Flexi	LokWand	Slimline	Flexi
Polishes				◎	●	◎
Branding (Print/Engrave)				●	●	●

WIDER BRUSH OPTIONS*
Dual Brush - up to 60mm wide
Quad Brush - up to 100mm wide

* Wider Brush options attach to Handle Cable & Wand only.



TIG Brush SELECTOR GUIDE

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Use the table below to decide which TIG Brush model and Cleaning Tool best suits your application.



Flexi Handle

The Flexi Handle provides weld cleaning performance and agility. It is able to adapt to the most unique and tight weld cleaning locations, with its 360 degree flexible head.

PERFORMANCE GUIDE

Optimum	●
Efficient	◎
Occasional	○



TBX-550



TBX-700

WELD TYPE	LokWand	Slimline	Flexi	LokWand	Slimline	Flexi
TIG Weld	●	●	●	●	●	●
Laser Cut	●	●	●	●	●	●
MIG Weld	◎	●	◎	◎	●	◎
MAG Weld	◎	●	◎	◎	●	◎
Sub Arc	○	◎	○	○	●	○
Stick Weld		○			●	
Laser/Gas		●			●	
Gasless					◎	
OXIDATION LEVEL	**LokWand**	**Slimline**	**Flexi**	**LokWand**	**Slimline**	**Flexi**
Light	●	●	●	●	●	●
Medium	◎	●	◎	◎	●	◎
Heavy	○	○	○	○	●	○
METAL GRADE	**LokWand**	**Slimline**	**Flexi**	**LokWand**	**Slimline**	**Flexi**
SS200, SS304, SS316 and SS400	●	●	●	●	●	●
Duplex	○	◎	○	○	●	○
Super Duplex					●	
Mild Steel	◎	●	◎	◎	●	◎
OTHER FUNCTIONS	**LokWand**	**Slimline**	**Flexi**	**LokWand**	**Slimline**	**Flexi**
Polishes	◎	●	◎	◎	●	◎
Branding (Print/Engrave)	●	●	●	●	●	●
WIDER BRUSH OPTIONS*						
Dual Brush - up to 60mm wide	●	●*	●	●	●*	●
Quad Brush - up to 100mm wide					●*	



* Wider Brush options attach to Handle Cable & Wand only.

TIG Brush Kit Options

Choose the Right System for Your Application

All TIG Brush kits are built from two simple choices:
1. Power Unit – Determines cleaning speed and duty level
2. Application Tool – Determines how the operator applies the brush.
Once those are selected, the rest of the kit is standardized.

STEP 1 — Choose Your Control Unit

CONTROL UNIT		Best Suited For	Typical User
TBX-330		Light stainless cleaning	Maintenance, mobile use
TBX-440		Low volume fabrication	Light fabrication workshops
TBX-550		Daily stainless fabrication	Fabrication shops
TBX-700		Maximum output and speed	Heavy fabrication & high volume

STEP 2 — Choose Your Application Tool

APPLICATION TOOL	Best Suited For	Typical Use	Brush Type
 Classic Wand	Traditional rigid wand	Work requiring simple operations	M6
 LokWand	Modular, quick-change system	Work requiring quick adjustable brush control	Push-In
 Flexi Handle	Bendable, positionable head	Work requiring multi-angle brush adjustments	5/16"
 Slimline PROPEL or PROPEL Torch	Torch-style precision tool	Work requiring precision brush adjustments and high ergonomics focus	Push-In/PROPEL

TIG Brush Kit Options

Every TIG Brush kit is supplied ready to operate, with all essential components included as standard. What changes between kits is the power level and the application tool, not the quality or process.

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STANDARD KIT CONTENTS (ALL KITS)

Every TIG Brush kit includes the following core components:

- Control unit (330 / 440 / 550 / 700)
- Handle cable 4M (13') LokWand and Classic Wand kits only
- Ground cable 4M (13')
- Selected application tool with 10 brushes
- Weld cleaning fluid
- Neutralising fluid
- Fluid jar & spray bottle
- Power Cord
- PPE Pack
- Instruction Manual



440 LokWand & 700 Slimline Kit shown.



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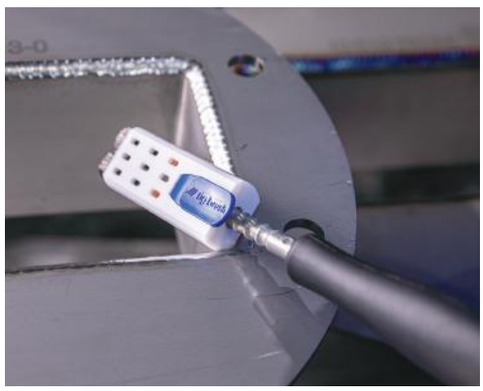
Introducing the Dual LokWand

NEW

TIG Brush's Multi-Brush Accessory
for Ultimate Simplicity and Precision!

Power Through Bigger Jobs with the Dual LokWand

Upgrade your weld cleaning with Ensitech's advanced Dual LokWand, engineered for maximum coverage on wide welds and large stainless steel surfaces. With 2 brush heads working simultaneously, this powerful accessory dramatically reduces cleaning time, increases efficiency, and cuts labor costs. Perfect for high-volume operations that demand speed without compromising quality.





Precision Meets Power

The Dual LokWand features an innovative locking mechanism that gives you precise control over brush length and delivers maximum cleaning power right at the contact point.

Built with heat-resistant PTFE, the shroud insulates and reduces brush splay, ensuring focused performance and longer brush life. With a simple thumb tab, adjustments are fast, secure, and efficient, letting you fine-tune power delivery on the fly.

Engineered for ease of use and long-term reliability, the Dual LokWand is an essential upgrade for anyone serious about getting the most from their TIG Brush system.

Engineered with PIB Technology for Seamless Performance

The Dual LokWand features advanced Push-In Brush (PIB) technology, designed to resist brush corrosion, prevent seizing, and ensure smooth, secure brush insertion every time.

With finely tuned tolerances, PIB technology keeps brushes firmly in place, delivering a consistent, reliable clean with less downtime and hassle. The result? A smarter, faster cleaning process that boosts productivity and keeps your operation moving.

TIG Brush Components & Accessories

TIG Brush components and accessories are designed and manufactured to Ensitech's specifications to ensure complete compatibility with the TIG Brush system. For maximum safety and performance, and to maximize the value of your investment in TIG Brush technology, use only genuine Ensitech accessories and consumables.

Legend shows which brushes and accessories are compatible with TIG Brush application tools.

Application tools are compatible with all models. However, the Flexi Handle, Slimline PROPEL, and PROPEL kits do not include the handle cable, which is designed for use with the LokWand, Classic Wand, and Flexi Wand.

Legend P - PROPEL F - Flexi Handle LW - LokWand B - PROPEL Brush C - Classic Wand
SL - Slimline PROPEL DLW - Dual LokWand PIB - Push-In Brush M6 - M6 Brush 5/16" - 5/16" Brush



LokWand

PIB

Featuring our ground-breaking Push-In Brush (PIB) technology. This innovative accessory offers an incrementally adjustable shroud and wand solution that can be effortlessly locked into place, providing you with unparalleled control. Ultimately, this allows the power to focus on a smaller area improving efficiency and speed.



Dual LokWand NEW

PIB

Maximize efficiency with the Ensitech Dual LokWand, featuring twin brush heads for rapid coverage on wide welds and large surfaces. This advanced accessory significantly reduces cleaning time and labor costs, making it ideal for high-volume operations requiring both speed and quality.



Slimline PROPEL

PIB

The Slimline radically improves from the previous version of the PROPEL Torch. Its' superior turn adjustment ratio fortifies the carbon fibre bristles, enhancing fluid retention and facilitates evaporative cooling via the shroud vents. This innovation not only prolongs brush life but also optimizes cost-efficiency. The Slimline is supplied standard with a 4M (13') 16mm^2 cable.



PROPEL TORCH

B

The PROPEL Torch is the first version of its kind to provide you with precision control over the length of your brush, a more powerful point of contact with the work surface and its ergonomic design increases the comfort of use. The PROPEL Torch is supplied standard with a 4M (13') 16mm^2 cable.



FLEXI HANDLE

5/16"

The Flexi Handle features an adjustable head that can be positioned to suit the operator and/or workpiece. It's ideal for cleaning and passivating in tight pipe angles, branches, and hard-to-reach welds on-site. The adjustable head adapts easily to difficult access areas, and the Flexi Handle comes standard with a 4 m (13') 16 mm^2 cable.



CLASSIC WAND ASSEMBLY

M6

Stainless steel wand with heat resistant insulating sleeve in 2 sizes: standard 50mm (2") and optional 100mm (4"). Classic Wand screws into the red handle cable.



FLEXI WAND

5/16"

The Flexi Wand has a bendable head making it easy to adapt your brush to tight and difficult to reach locations. Screw onto the Red Handle to convert it into a flexi-handle.



M6 TIG BRUSH TIPS

C

Ensitech standard M6 brushes are manufactured in Australia from premium quality materials to ensure the best performance from the TIG Brush. M6 TIG Brush tips are available in packs of 10.



PROPEL TORCH BRUSHES

P

Ensitech's PROPEL Torch brushes are manufactured in Australia with premium quality materials to ensure the best performance with your PROPEL Torch. PROPEL Torch brushes are available in packs of 10.



PUSH-IN BRUSHES

SL LW DLW

Ensitech's Push-In brushes are manufactured in Australia with premium quality materials to ensure the best performance with your Slimline or LokWand. Push-In brushes are available in packs of 10.



5/16" Threaded Brush

F

Designed for compatibility with the Flexi Handle and Flexi Wand, these brushes are built for durability and precision.



DUAL BRUSH ADAPTOR & SHROUD

C M6

Clean larger TIG welds and surfaces more quickly using a dual brush. The dual brush adapter & shroud accepts two M6 brush tips to form a brush twice the size for greater coverage.



QUAD BRUSH ADAPTOR & SHROUD

C M6

The quad brush adaptor & shroud is designed for cleaning the largest welds and surface areas, as well as heavier-duty applications such as cleaning MIG, which require more heat and current delivered to the work surface. The quad brush adapter & shroud accepts four M6 brush tips.

INSULATING SHROUDS

F C M6 5/16"

It is important to use an insulating shroud on your brush for safety and to prevent damage to the equipment. Replacement shrouds are available for single M6 and 5/16" threaded brushes.



HANDLE CABLE

C LW DLW

Standard in Classic Kits, the 16mm^2 Handle Cable fits all TIG Brush models. It enables accessories incompatible with PROPEL or Flexi handles and comes in 4M (13'), 6M (20'), or custom lengths.



GROUND CLAMP CABLE

The 4M (13') Ground Clamp Cable is a standard inclusion in all kit options. Replacements are available in 4M (13') and 6M (20') standard lengths or different cable lengths can be customized at point of order.



EXTENSION CABLES

Extension cables are available to increase reach to 6M (20'), 12M (40') and 18M (60') making it easy to use the TIG Brush for less-accessible work. Available individually (red or black cables) or as a pair. Check the maximum length compatible with your TIG Brush.



PROPEL SHROUD

SL

Slimline PROPEL Torch replacement PTFE shroud and C-Clip.



THUMB TAB

LW

Replacement Thumb Tabs for the LokWand are available separately.



FLUID JAR & SPRAY BOTTLE

Fluid jar for use with Weld Cleaning and/or Branding fluids. Spray bottle for use with Neutralizing fluids and Finishing fluid. Available individually or together as a pack.

ENSITECH NSF CERTIFIED PREMIUM FLUID RANGE

NSF CERTIFIED



WHAT SETS GENUINE **ENSITECH FLUIDS** APART FROM OTHER WELD CLEANING FLUIDS **IN THE MARKET?**

NSF CERTIFIED

PURITY & PERFORMANCE

Ensitech has invested heavily in market-leading research and development to create a complete, premium range of fluids for every aspect of stainless steel surface preparation, weld cleaning and finishing. Ensitech fluids contain only analytical grade chemicals, the highest graded products in terms of purity and lack of contaminants.

LOW TOXICITY

Inferior grade chemicals used by many competitor brands are either imports or material derived from fertiliser plants. Neither of these materials produce the high purity product achieved in our formulas. Genuine Ensitech fluids are premium fluids and offer fabricators high-performance, low-toxicity cleaning solutions with an easy water-based clean-up to protect both the operator and environment.

NSF CERTIFIED

The National Sanitation Foundation (NSF) is is a globally recognised organisation for public health standards with rigorous testing, auditing and certification standards by accredited labs. This is your assurance that Ensitech fluids have been tested and certified by one of the most respected certification organisations.



Premium Range of Fluids

SCAN ME

PRE-WELD CLEANING

Removal of contaminants prior to welding is a sensible strategy to ensure firstly that the best weld quality is obtained and then a quick and effective clean and passivation is achieved with the TIG Brush weld cleaning process.



TB-01 PRE-WELD CLEANING FLUID

Developed to remove residues such as light oils and greases on stainless steel surfaces. If contaminants are not removed, they can be included in the weld, leading to unsightly and difficult to remove inclusions in the weld.

NEUTRALISING

Before using any of the TIG Brush neutralising fluids, rinse off the weld cleaning fluid thoroughly with clean water. Then apply the appropriate neutralising fluid to remove any of the residual acidity.



TB-41 NEUTRALISING FLUID FOR TB-30ND

A non-dangerous (non-flammable, non-corrosive) formulation, developed for neutralising TB-30ND. TB-41 contains a range of fast acting, effective components that neutralise TB-30ND's complex chemistry and residual acidic components within seconds.



TB-42 NEUTRALISING FLUID FOR TB-21 & TB-25

This premium, non-dangerous formulation developed for neutralisation of TB-21ND & TB-25 is an important preventative step to ensure complete removal of any acidic residue on the work surface.

BRANDING

Be proud of your work. Ensitech's branding fluids can be used to permanently print or engrave stainless steel with branding, logos, part numbers, barcodes etc.



TB-90 PRINTING FLUID FOR STAINLESS STEEL

TB-90 creates permanent sharp and dark lettering, logos, or any other design on your stainless steel. The process is user friendly, safe, and fast with outstanding results within seconds.



TB-95 ENGRAVING FLUID FOR STAINLESS STEEL

TB-95 creates a sharp, clear etch for lettering, logos, or any other design on your stainless steel. Its engraving process is unmatched for speed, ease, and durability, ensuring lasting results on etched surfaces.

WELD CLEANING

With a choice of four innovative cleaning fluids from chemically stringent to high-powered, genuine TIG Brush stainless steel cleaning fluids simultaneously clean and passivate with proven results.



TB-21 STANDARD DUTY WELD CLEANING FLUID

TB-21 offers the same trusted cleaning and passivation performance as TB-25 for lighter heat tint applications. As a milder option in our premium range, it delivers excellent results with added convenience and value. Ideal where a gentler, yet efficient cleaning solution is preferred.



TB-25 HEAVY DUTY WELD CLEANING FLUID

This high-powered premium stainless steel weld cleaning fluid is the strongest, fastest cleaning fluid in the range. TB-25 gives the user unequaled performance in cleaning, polishing and passivating on the harshest stainless steel welds.



TB-30ND BIODEGRADABLE WELD CLEANING FLUID

A biodegradable stainless steel weld-cleaning fluid developed for use in facilities where corrosive chemicals are not permitted. Environmentally friendly, it cleans as effectively as TB-25, but does not polish. For best results, neutralize with TB-41 after cleaning.



TB-31ND pH NEUTRAL WELD CLEANING FLUID

When you have a need for added safety, this custom designed and patented fluid is pH neutral, fast-acting and needs no separate neutralization process. It cleans and passivates without polishing, leaves no white frosting and does not alter high-polish stainless. Environmentally safe TB-31ND allows maximum safety in use, handling, storage and transport.

FINISHING

Application of TB-50 will increase surface reflectability and assist in preventing your perfect finished surfaces from marking through handling.



TB-50 FINISHING FLUID FOR STAINLESS STEEL

Cleans, brightens but also resists handling marks by leaving a molecular level layer on the surface of the stainless steel.


tig br
Designed and Manufacture
tig

Beautifully Branded on Stainless Steel

The TIG Brush Branding Kit allows you to permanently print or engrave on stainless steel with your logo, company name, part numbers and more.







Why not show the world who you are!

Leave your mark with the TIG Brush Branding Kit! This tool transforms the TIG Brush 440, 550 & 700 into a stainless steel printer and engraver, ideal for applying logos, part numbers, and barcodes. Perfect for product branding, asset tagging, parts management, and maintenance records, the kit uses a unique branding head, felt pad, and specialized fluids for quick, permanent markings. Simple and efficient, it's branding made effortless.

TIG BRUSH BRANDING KIT



Replacement parts for the TIG Brush Branding Kit to keep your permanent branding of stainless steel underway. Branding stencils can be custom made to suit your requirements. Please note: there are three options for using the Branding Head Adaptor (the Handle Cable, the PROPEL Torch and the Slimline PROPEL). If you are not sure which adaptor you need, or you would like more information on ordering custom stencils, contact your dealer/distributor or our friendly customer service team.

BRANDING HEAD & ADAPTOR



"O" RINGS



FELT ROLL



BRANDING STENCILS



Personalise your stainless steel printing or engraving through our customisable stencils. Our multi-use stencils are hand made using ultra-tight weave polyester that has been repeatedly tested to be the most durable material for metal printing and engraving applications. Custom-made in high resolution to your specifications to ensure your logo, part number or any other customisation is printed/engraved clearly. Each Branding Kit includes a sample multi-use stencil so you can practice your craft before ordering your own custom made stencil.

Single use stencils and stencil printers are also available. This application is the ideal solution if you want to print or engrave variable texts, numbers or symbols. For more information on custom or single use stencils, please contact your distributor/dealer or Ensitech.

Dangers of Pickling Paste



For decades now, fabricators have been following the same outdated and dangerous method for the post-weld treatment of stainless steel. It was painstakingly slow, tedious, and worst of all, dangerous. So, why did everyone use pickling paste? For lack of a better option. But now there are other options that are safer, faster and actually save you money.

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So, what's changed? A lot, in fact, but worldwide there are still companies that are relying on dangerous pickling paste to clean their stainless steel welds at the expense of their employee's health and safety. **Scan the QR code to read the 5 reasons why you should stop using pickling paste now.**



CASE STUDY

WHY SYSTEMS FAB & MACHINE USE TIG BRUSH TO REPLACE PICKLING AND GRINDING?

Systems Fab and Machine use a variety of MIG welding processes in their stainless production as well as a Roto-weld machine that utilizes MIG to drive pipe fabrication. Their customers require clean and passivated stainless welds that have no discoloration.

In the past, their finishing process was time consuming and laborious. They had been hand cleaning welds, using grinders and brushes, then using pickling paste, or acid washing the welds to passivate and protect the welds from corrosion. This process required a lot of time, PPE and environmental precautions. Scan the QR code to learn why Systems Fab changed to using the TIG Brush.

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WHY FABRICATORS TRUST TIG BRUSH



Kono Kogs Inc. Revolutionizes Metal Finishing with TIG Brush

Two and a half years ago, Kono Kogs took a significant step by vertically integrating and adding fabrication capabilities. This move allowed them to have better control over quality and meet customer lead times more effectively. One of the main components of their oxidiser systems are Diverter Tee Dampers, which they began to produce in-house. Some applications required the use of stainless-steel materials due to the corrosive nature of the processes. Initially, these dampers were passivated manually using a clean stainless steel wire brush or a hazardous pickling paste.

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Why Dryce® Nation uses the TIG Brush in their Preservation Process

Scott Ales, owner of Dryce explains, “once we completely clean the underside of high valued vehicles with our dry ice process, the stainless-steel exhaust systems are discoloured and take away from the aesthetic our clients’ desire. Restoring these systems back to new without removing them from the vehicle is the challenge. Prior to using the TIG Brush, we simply used a phosphoric acid solution which helped, but did not allow for a 100% complete execution. Cracks, crevices, and tight places were still lacking in appearance”.

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How Biltrite Sign Service uses the TIG Brush to Fabricate Stainless Steel Signs

Biltrite faced a number of challenges when taking on this project; the use of stainless steel to manufacture signage was a new process for them; the signs would be located on the sidewalks of the downtown area, under scrutiny from the public so it was important the finish was aesthetically pleasing as well. They also had to ensure the signs were visually interesting and in keeping with the historic landmarks and agricultural district location.

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Why East Oklahoma Fabrication Inc. use TIG Brush to Replace Sand Blasting

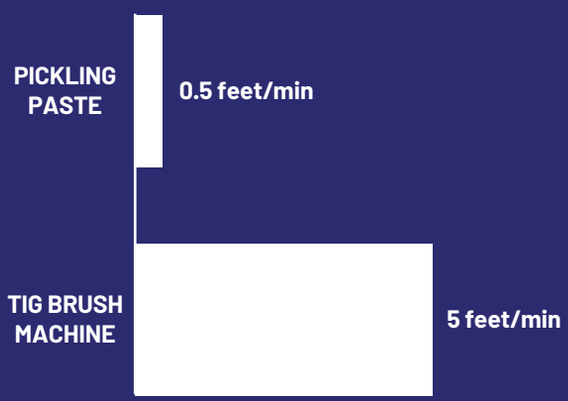
The particular challenge at this facility is that they fabricate carbon, as well as stainless steel vessels, in a limited space. Even though all vessels are sand blasted, before they leave the facility, the owner, Ray Finchum, wanted assurance that his end user would not have problems with iron contamination, leading to corrosion in the stainless weldments of the products they produced.

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ENDLESS PERFORMANCE

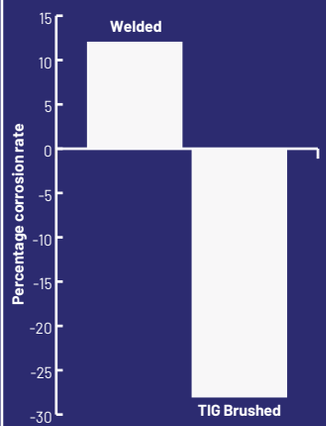
The TIG Brush delivers effortless, year-round continuous operation and each model is built to meet your need.

CLEAN FASTER*



Pickling paste vs TIG Brush 700 model

REDUCE CORROSION



Corrosion rates of samples relative to unwelded steel



Corrosion Rate

INSTANT RESULTS

FASTER PERFORMANCE

CONSISTENT POWER

SAFER OPERATION

vs. Pickling paste on 1 meter weld.

CLEAN 10X FASTER.*



BEFORE AFTER

Standards and Accreditations

ASTM International Standards

Meeting the global standards for passivating stainless steel ASTM A967-05 and B912-02

Quality Assurance

Ensitech is an accredited ISO 9001 company. This is your assurance that what we do is the highest standards.

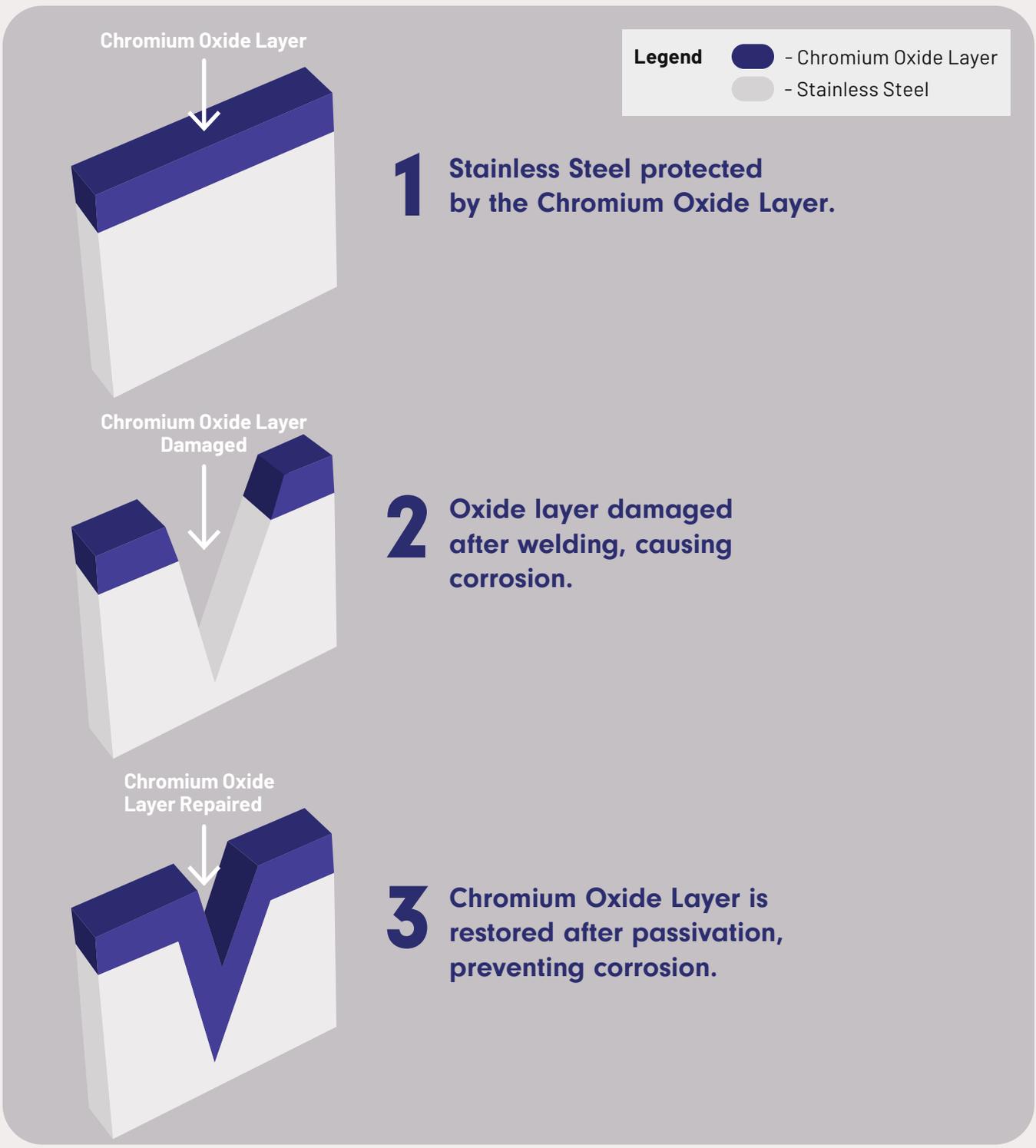
NSF Certification

All of Ensitech's cleaning chemicals adhere to strict international public health standards.

The Science Behind Passivation

Passivation involves an electrochemical treatment that enhances the corrosion resistance of stainless steel by forming a protective oxide layer on its surface.

Electrochemical passivation not only cleans the surface but also enhances and speeds up the natural oxidation of chromium, ensuring the stainless steel remains durable and resistant to environmental damage. This process is essential for maintaining the integrity and longevity of stainless steel welds and components.



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