Cougartron
Powered by innovation

# PRODUCT CATALOGUE



WELD CLEANING

SURFACE TREATMENT

METAL MARKING

PIPE TOOLS

FUME EXTRACTION

EDITION 26

“Hello there,

Here at Cougartron, we are passionate about what we do and we strive to be the best supplier of weld cleaning equipment for our customers’ needs.

Recognized as leaders in the electrolytic weld cleaning machines and fluids sector, we are industry experts who are continuously improving and responding to the demands of our customers.

We are a trusted provider of weld cleaning solutions. Safety plays a big role in our industry, and that’s why we want to offer you leading equipment that is safe and environmentally friendly.

We have divided this catalogue into five categories so it’s easy to find what you are looking for. The categories are: weld cleaning, surface treatment, marking equipment, pipe tools, and fume extraction.

Our products are unique and designed to enhance our customers’ workflow and deliver fast results.”

Jonathan Edwards, CEO

Cougartron
Powered by innovation




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We've divided the catalogue into five sections to help you find what you need easily. On the right-hand side, you'll see these sections clearly marked, making it simple for you to navigate and locate the products you're looking for.



WELD CLEANING



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Were you aware that all our machines are crafted in Denmark within our own production facility?
Right here, we meticulously test, develop, and innovate. Continuously expanding our weld cleaning collection. Our machines stand out not only for their robust design but also for their unparalleled power. We take pride in delivering top-quality products that effectively streamline your work processes.

**Every metalworker deserves fast, safe & effective weld cleaning & passivation equipment.**

**That's why Cougartron exists.**





# Why choose Cougartron:



**High-speed cleaning:**
We don't make slow weld-cleaners. Ranging from 30-200A (420-3200VA), our weld-cleaners are best-in-class for their respective applications.



**Food-safe fluids:**
The Cougartron cleaning process uses food-grade electrolytes, certified for use in the food and pharmaceutical industry.



**Long brush life:**
Our brushes are optimized for our equipment and provide 5-8 hours of effective weld cleaning (the lifetime varies depending on your application).



**Advanced electronics:**
The innovative CougarSense electronics system ensures the perfect amount of fluid and power is delivered during the weld cleaning process, preventing brush burning.



**Intuitive user interface:**
The machines are equipped with an intuitive control panel that provides feedback through a digital display, adding an extra layer of practicality to your process.



**Extra long, heavy duty cables:**
Standard 4 or 6 meters cables, with available extensions (up to 4x-in length – sold as extra items).



**Extended warranty:**
An extended 2-year warranty is available for all users by registering your machine on our website.



**Fast technical support & repairs:**
We understand that every stainless steel welding workshop needs timely support, to keep their equipment running perfectly. See page 105 for more details.

**Here are the main reasons why:**
1. Oxides, which also appear as heat tints and discoloration, form during the welding process due to high temperatures.
2. This reduces the corrosion resistance of stainless steel and makes it more susceptible to rust.
3. Since stainless steel is usually not coated or painted, the finished product looks much better after oxides are removed through weld cleaning. This process results in shiny and clean welds.

**Above points explained in more detail below:**

## Impact on Stainless Steel Properties
Stainless steel is known for its corrosion resistance due to the presence of a thin, invisible layer known as the passive layer on its surface. However, welding breaks down the passive layer leading to the formation of a thicker layer of oxides. The oxides render the steel surface susceptible to corrosion, thereby diminishing both its strength and structural integrity.

## Compromised Structural Integrity
The presence of oxides on the weld seam can compromise the structural integrity of the joint. The oxides may act as stress concentrators, leading to the initiation and propagation of cracks. This can result in premature failure of the welded component, posing a safety risk, especially in critical applications.

## Importance of Achieving Visual Appeal
Additionally, removing oxides is important for achieving a visually appealing weld seam. Stainless steel is often used in applications where aesthetics play a vital role, such as architectural structures or high-end consumer products. It is also used in highly hygienic environments such as food & beverage factories and pharmaceutical production plants. Oxides on the weld seam can tarnish the appearance of the finished product, making it look unsightly and unprofessional. By removing the oxides, a clean, smooth, and uniform weld seam can be achieved, enhancing the overall visual appeal of the stainless steel component.

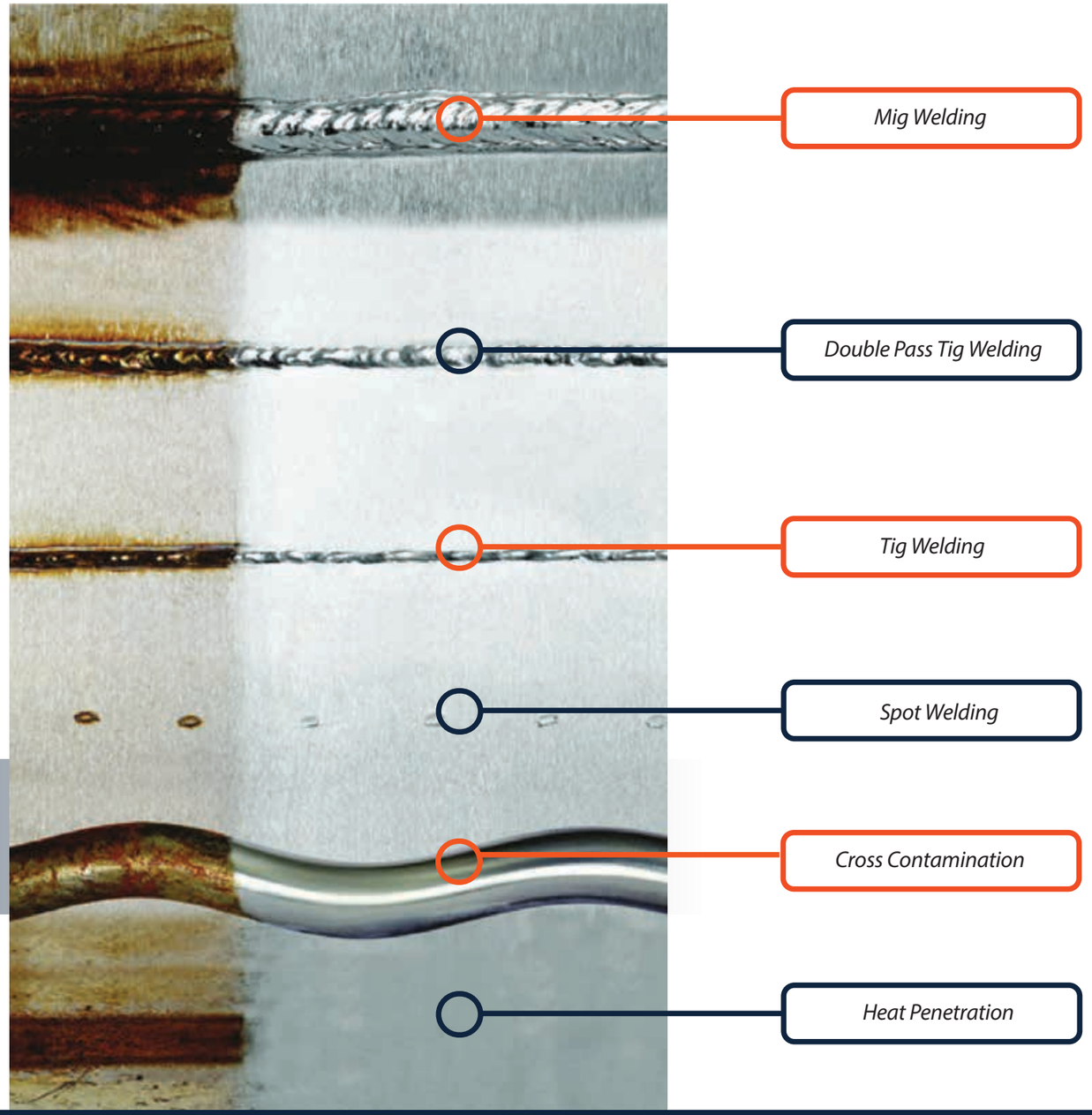
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Visit our blog at www.cougartron.com or use the QR code.





Cougartron equipment can clean and passivate almost any kind of stainless steel weld seam, successfully removing various types of heat tints.

Below are examples of some common applications. Generally, TIG weld seams are easier and faster to clean while MIG welds are typically more heavily oxidised and require a higher-powered machine (E.g. Fury 200) to clean effectively. **See page 14 to choose the correct machine for your application.**



# PRODUCT COMPARISON









| Technical data | PowerONE | Power30 | Power30X | ProPlus |
|---|---|---|---|---|
| **Power supply** 110/230V version | 110-230 V AC, 50/60Hz, 8A | 110-230 V AC, 50/60Hz, 4A | 110-230 V AC, 50/60Hz, 4A | N/A |
| **Power supply** 110V version | N/A | N/A | N/A | 110 V AC, 50/60Hz, 8A |
| **Power supply** 230V version | N/A | N/A | N/A | 240 V AC, 50/60Hz, 8A |
| **Weld-cleaning** Amp range | 0-80A | 5-30A, 5A increments | 5-30A, 5A increments | 5-50A, 5A increments |
| **Weld-cleaning** Voltage range | 10V AC | 10-14 V AC | 10-14 V AC | 14 V AC |
| **Polishing** Amp range | N/A | N/A | 5-30A, 5A increments | 5-50A, 5A increments |
| **Polishing** Voltage range | N/A | N/A | 10 V DC | 14 V DC |
| **Marking** Amp range | 10A | 2-10A, 2A increments | 2-10A, 2A increments | 2-10A, 2A increments |
| **Marking** Voltage range | 10V AC | 10 V AC | 10 V AC | 14 V AC |
| **Duty cycle** | 100% | 100% | 100% | 100% |
| **Detachable handle** | No | No | No | No |
| **Input cable length** | 1.5m | 1.5m | 1.5m | 1.5m |
| **Output cable length** | 4m | 4m | 4m | 4m |
| **Output cable Size** | 16mm² | 10mm² | 10mm² | 10mm² |
| **Brush holder options** | 1 | 1 | 1 | 1,2 |
| **Fluid feed compatible** | Yes | Yes | Yes | Yes |
| **Enclosure protection** | IP51 | IP51 | IP51 | IP51 |

**Entry-Level**

An easy to use machine - connect to power, turn on, and clean! Cougartron Quality at an affordable price. Lightweight and portable making them great for onsite work.

**Precision-Range**

The 'most precise in class' for the lower amperage weld cleaners. Has the ability and power to clean MIG welds, but also possesses the necessary precision to clean the smallest of components and the thinnest of materials without overheating the parts, due to the precise control of output amperage in 5amp increments. All this packed into a leightweight and portable build, making them great for inhouse or onsite work.















| Technical data | Fury100 | Fury200 | Fury100XF | Fury200XF |
|---|---|---|---|---|
| **Power supply** 110/230V version | N/A | N/A | N/A | N/A |
| **Power supply** 110V version | 110 V AC, 50/60Hz, 15A | 110 V AC, 50/60Hz, 32A | 110 V AC, 50/60Hz, 15A | 110 V AC, 50/60Hz, 32A |
| **Power supply** 230V version | 240 V AC, 50/60Hz, 10A | 240 V AC, 50/60Hz, 16A | 240 V AC, 50/60Hz, 10A | 240 V AC, 50/60Hz, 16A |
| **Weld-cleaning** Amp range | 20-200A, 20A increments | 20-200A, 20A increments | 20-200A, 20A increments | 20-200A, 20A increments |
| **Weld-cleaning** Voltage range | 10-16 V AC | 10-16 V AC | 10-16 V AC | 10-16 V AC |
| **Polishing** Amp range | 20-200A, 20A increments | 20-200A, 20A increments | 20-200A, 20A increments | 20-200A, 20A increments |
| **Polishing** Voltage range | 10-12 V DC | 10-12 V DC | 10-12 V DC | 10-12 V DC |
| **Marking** Amp range | 2-10A, 2A increments | 2-10A, 2A increments | 2-10A, 2A increments | 2-10A, 2A increments |
| **Marking** Voltage range | 12 V AC | 12 V AC | 12 V AC | 12 V AC |
| **Duty cycle** | 100% | 100% | 100% | 100% |
| **Detachable handle** | Yes | Yes | Yes | Yes |
| **Input cable length** | 4m | 4m | 4m | 4m |
| **Output cable length** | 6m | 6m | 6m | 6m |
| **Output cable Size** | 35mm² | 35mm² | 35mm² | 35mm² |
| **Brush holder options** | 1,2 | 1,2,3 | 1,2 | 1,2,3 |
| **Fluid feed compatible** | No | No | Fully integrated | Fully integrated |
| **Enclosure protection** | IP51 | IP51 | IP51 | IP51 |

**Heavy Duty Range**

The real beast in any workshop. FURY machines will clean any weld with ease – no oxidation stands a chance. Despite its immense power output available for the toughest of tasks, the FURY line can also deliver precise output current in 20 amp increments, allowing its users to clean all weld types and sizes, from the thinnest sheet metal to the longest heavily-contaminated welds and surfaces. Regular stainless steel, Duplex, Super Duplex – You name it, FURY will clean it. No exceptions.

# THE WELD CLEANER PRODUCT RANGE

## Machine Selection Tool

Use the table below to help you identify the correct weld-cleaner for your needs:

| Welding process (A) | Material thickness (B) | Hours/ week (C) | Amps | Machines(s) | Cleaning speed m/ min approx. |
|---|---|---|---|---|---|
| GTAW (TIG) | 1-3mm | <5 | 30 | PowerONE, Power30, Power30X | 0.5 |
| | | 5-20 | 50 | ProPlus | 1.0 |
| | | 20+ | 100 | Fury100, Fury100XF* | 2.0 |
| GTAW (TIG) | 3-6mm | <5 | 30 | Power30, Power30X | 0.4 |
| | | 5-20 | 50-100 | ProPlus, Fury100 | 1.0 |
| | | 20+ | 200 | Fury200, Fury100XF* | 2.0 |
| GTAW (TIG) | 6mm+ | <5 | 50 | ProPlus | 0.5 |
| | | 5-20 | 50-100 | Fury100, Fury200 | 1.0 |
| | | 20+ | 200 | Fury100XF, Fury200XF* | 2.0 |
| GMAW (MIG) | 1-5mm | <5 | 50 | PowerONE, ProPlus | 0.5 |
| | | 5-20 | 50-100 | Fury100, Fury200 | 1.0 |
| | | 20+ | 200 | Fury100XF, Fury200XF* | 1.5 |
| GMAW (MIG) | 5mm+ | <5 | 50 | ProPlus, Fury100 | 0.4 |
| | | 5-20 | 50-100 | Fury100, Fury200 | 0.7 |
| | | 20+ | 200 | Fury100XF, Fury200XF* | 1.0 |

**Important note:** In the above table, double-pass TIG welding should be regarded as MIG welding.
*Machines with fluid feed, can clean approx. 30% faster.

**A** **Criteria A**
Which welding process is used in over 50% of your weld-cleaning applications?

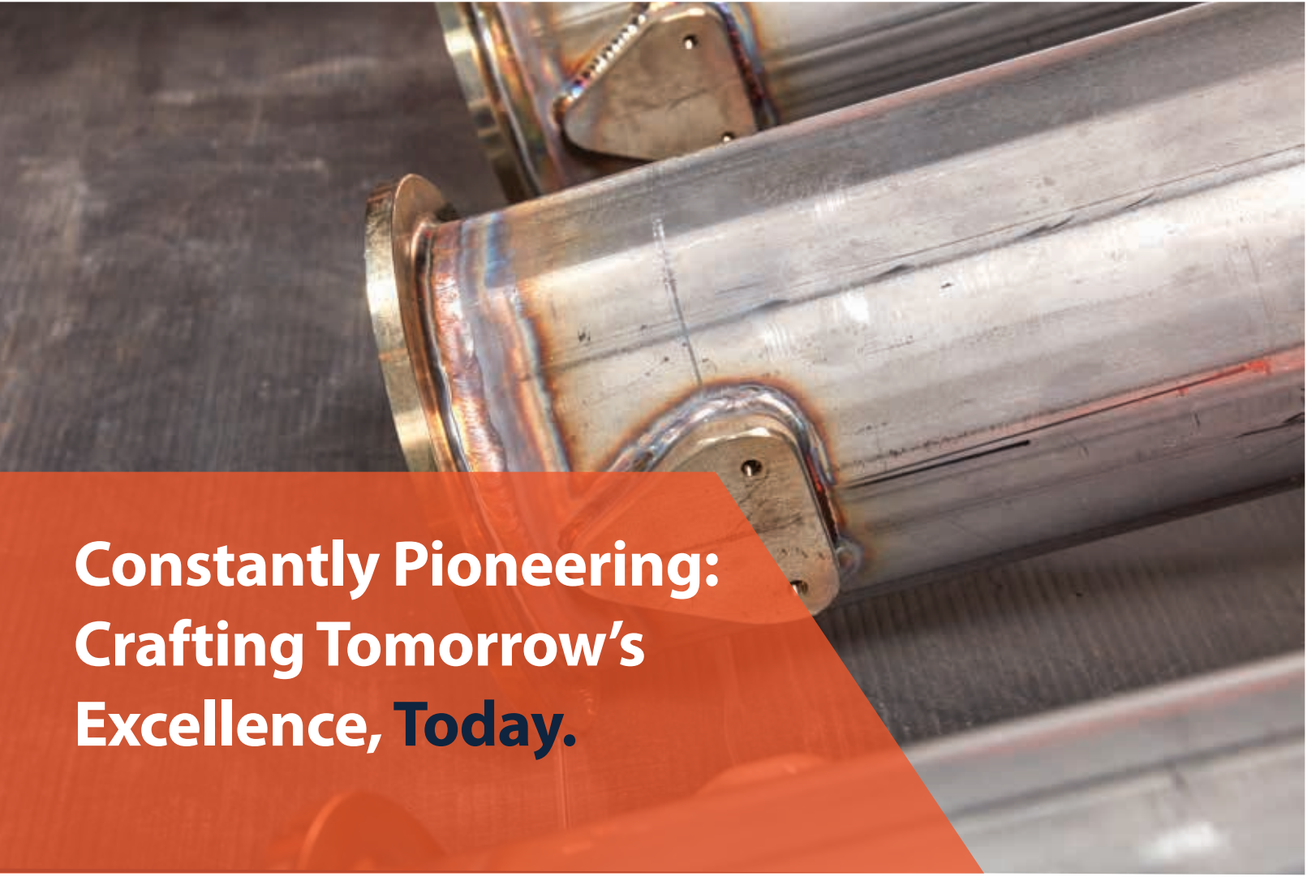
**B** **Criteria B**
Which material thickness is used in over 50% of your weld-cleaning applications?

**C** **Criteria C**
How many hours/week of weld-cleaning do you plan to do on average?









**Constantly Pioneering: Crafting Tomorrow's Excellence, Today.**

# How to Buy:

Cougartron takes pride in its expansive and ever-growing presence across the international landscape, with a reach that extends to 120 countries. At the heart of our commitment to customers like you is a well-established network comprising over 200 dedicated, highly trained, and approved dealers and representatives. Our global network is the backbone of our operations, designed to ensure that you have seamless access to our top-quality products and unwavering support precisely when you need it.

# Our Partners in Saudi Arabia:

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# CONTACT US

