

## Why automatic fluid feed will change your weld cleaning experience:

Electrochemical **weld cleaning** is a quick and efficient oxide removal method. But what if you could make it even **faster**? Our automatic fluid feed systems allow you to do just that.

With the introduction of the FL20 - the integrated version of the FL10 system - you now have two automatic fluid feed options at your disposal. We will delve into the benefits of automatic fluid feed systems below and discuss the main characteristics and differences between the two Cougartron models.

## How will my weld cleaning become more convenient with automatic fluid feed?

Electrochemical weld cleaning and polishing are best performed using circular brush movements along the weld seam. Until now, the process inevitably included constant stopping and dipping the brush into the electrolytic liquid. This stop and dip technique sometimes posed a real nuisance during long working hours and demanding projects. Not anymore.

Our fluid feed systems are designed to eliminate this exact problem and provide our customers with a faster, more efficient, and, above all, more convenient way of weld cleaning.

## What are the advantages of automatic fluid feed?

The most outstanding advantage of automatic fluid feeding is the lack of need to constantly dip the brush into the weld cleaning fluid. The benefit of this is especially noticeable during long-term cleaning of longer welds and larger metal surfaces. Your **productivity goes up** while time consumption is significantly reduced. **It's a real game changer for your lead times.**

## Who is it for?

The systems are great for **anyone doing weld cleaning**. This being said, we are fully aware that smaller production facilities with limited work hours may not see it as a worthy investment. However, if you do more than five hours of weld cleaning per week – you will certainly want to reap the benefits of automatic fluid feeding. This also depends on the type of work you do.



If you are dealing with demanding welds – larger metal structures, longer linear welds, and heavily-oxidized surfaces – our fluid feed systems will work like a charm. The FL20 also gives you the ability to carry the entire system with you using a single handle which is especially useful in tight work areas and on taller structures (e.g. stainless steel tanks).

## Differences between FL10 and FL20

**Both models essentially do the same thing** – they transfer the fluid from the container to your brush tip and eliminate the need to constantly stop your work and dip the brush manually. However, they differ in terms of how they are attached to your weld cleaner.

**The FL10 is a separate unit** placed alongside your machine and the fluid container. The setup is rather spread up out within your work area as you'll basically work with and handle three different components included in the process.

The new model – **FL20 – is an integrated version of the former**. It is attached to your machine with the help of only four screws so you can move both units at the same time using a single handle. It also possesses a practical storage area for the fluid container which brings a new level of compactness to the system.

The FL20 conveniently combines three separate components into a single unit that is easily handled and moved around. For additional practicality points, the pump and the machine are both turned on/off using a single power switch and plug.

The control panels for the two are placed next to each other so you can easily switch between the work modes and speeds according to your current needs.

All things considered, the FL10 is clearly an option for a stationary type of work where you do not need to move the system a lot. On the other hand, the FL20 is equally usable in different production scenarios.

Thanks to its compactness, you can use it in tight and confined areas as well as taller and less-reachable metal structures. It will also take up less space in your workshop as it is completely integrated with your weld cleaner.

"This is a great product and I can definitely recommend this to others! We have saved so much time! No more dipping, just automatic fluid feed for us!"



Not only is this smart and compact fluid feed system compatible with all weld cleaners in the Cougartron range, but it also works with other brands. This solution transforms your weld cleaner into a system with fully integrated fluid feed functionality. The fluid pump is activated automatically as soon as you apply your brush to the workpiece. The fluid pump starts automatically when you touch your cleaning brush to the workpiece. The feed rate is continuously optimised throughout the cleaning process using a smart current monitoring system.

**How can I incorporate FL10 and FL20 in my workflow?**

Both models are easily incorporated in your workflow as they serve as productivity-enhancing accessories to your existing weld cleaning setup. They don't take up much space, which means you won't have to make any major changes to your work environment. FL10 and FL20 are both supplied in starter packs equipped with all the necessities you need to start using the fluid feed functionality straight away – with no unnecessary hassle.

**How is it maintained?**

Before using the fluid feed for the first time, the system requires priming – removing air and filling the tube. This is done using the priming mode with a duration of approximately 2 minutes. You will also need to rinse the tubes and activate the priming mode after each weld cleaning session. This is the best way to properly maintain your system and prevent the tube from clogging.

Technical data	
Power supply	110-230 V AC, 50/60Hz, 1A
Amp range detection	1-80A
Voltage range detection	1-30 V AC/DC
Priming function	Yes
Manual pumping	Yes
Auto pumping	Yes (3 modes)
Input cable length	1.5m
Output cable length	4m
Output cable Size	10mm <sup>2</sup>
Brush holder options	1
Size (machine only)	L 180mm, W 150mm, H 70mm
Weight (machine only)	0,79 kg
Compatibility	All machines

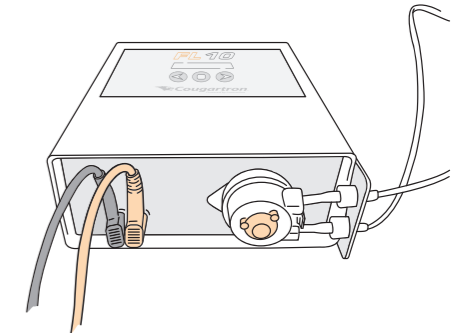


**Key features:**

- Fluid pumped to the brush tip via tubing integrated in the work cable.
- Fully automatic start/stop of fluid flow.
- Real-time fluid volume monitoring with several modes.
- Priming & purging function.
- Easy maintenance and replacement of key components.
- Dual input voltage – use the FL10 on 110V or 230V power supplies.

We **highly recommend** using the FL10 together with the following products:

- Mobile equipment stand (see p. 38).
- Mobile workstation (see p. 39).



**Set buying information**

Description	Weight	Part nr.
FL10 Fluid Feed system - Starter Set A	5,3 kg	WELC1059
FL10 Fluid Feed system - Starter Set B	19,1 kg	WELC1069
FL10 Fluid Feed system - Starter Set C	28,0 kg	WELC1076

**Set contents**

Part nr.	Description	Starter Set A	Starter Set B	Starter Set C
n/a	FL10 fluid feed system - Pump unit only	x	x	x
n/a	Power lead - country specific*	x	x	x
WELC2063	Transport case - Medium	x	x	x
WELC5025	Foam insert	x	x	x
WELC2709	CGT 10mm <sup>2</sup> Fluidhose Assembly x 4M w/ handle	x	x	x
WELC2397	Cougartron Fluid Feed Wand with Twist Shroud	x	x	x
WELC2699	CGT AC Current Clamp 200amp	x	x	x
WELC2714	CGT FL10 Infeed fluid hose assembly	x	x	x
WELC2149	Cougartron microfibre cloth - 40x40cm (black)	x	x	x
WELC2570	Mobile equipment stand		x	
WELC2743	Mobile workstation			x

**Additional spares**

Part nr.	Description
WELC2628	Replacement pump (2mm ID tube)
WELC2460	Twist shroud (for WELC2397 wand)
WELC2906	Cleaning fluid bottle w. drilled cap - 1L
WELC2905	Cleaning fluid bottle w. drilled cap - 5L
WELC2461	Dispenser for Fluid Feed Wand (M6 brush)

This integrated solution transforms your weld-cleaner to a system with fully-automatic fluid-feed functionality. The fluid pump starts automatically when you touch your cleaning brush to the work-piece. The feed rate is continuously optimised throughout the cleaning process using a smart current monitoring system.

**How does it work?**

While using an automatic fluid feed system, the fluid is delivered directly to the brush tip via a pump that is connected to your machine. The pump is stepper motor-controlled and gives you the ability to regulate the amount of fluid being fed to the brush – giving you more control over the entire process. You can choose between 5 modes to adjust the amount of fluid being pumped which makes the system applicable during tasks that vary in scope and scale. For example, lighter and less-oxidized welds require less fluid. On the other hand, thicker and heavily-corroded welds demand a higher fluid consumption. With a dosing range of 5-8 ml/minute at your disposal, you can adjust the system perfectly to your needs.

The fluid flow is regulated according to the output current drawn, meaning that the pump only starts once there is current going through the lead, which means that there is less fluid waste.

Thanks to its compactness, you can use it in tight and confined areas as well as taller and less-reachable metal structures. It will also take up less space in your workshop as it is completely integrated with your weld cleaner.

Technical data	
Power supply	110-230 V AC, 50/60Hz, 1A
Amp range detection	1-80A
Voltage range detection	1-30 V AC/DC
Priming function	Yes
Manual pumping	Yes
Auto pumping	Yes (3 modes)
Input cable length	1.5m
Output cable length	4m
Output cable Size	10mm <sup>2</sup>
Brush holder options	1
Size (machine only)	L 225mm, W 220mm, H 318mm
Weight (machine only)	5,3 kg
Compatibility	Power, ProPlus models



**Key features:**

- Connects to PowerONE, Power30, Power30X and ProPlus models for a highly integrated solution.
- Fluid pumped to the brush tip via tubing integrated in the work cable.
- Fully automatic start/stop of fluid flow.
- Real-time fluid volume monitoring with several modes.
- Priming & purging function.
- Easy maintenance and replacement of key components.



**Set buying information**

Description	Weight	Part nr.
FL20 Fluid Feed system - Starter Set A	7,1 kg	WELC1060
FL20 Fluid Feed system - Starter Set B	29,8 kg	WELC1068

**Set contents**

Part nr.	Description	Starter Set A	Starter Set B
n/a	FL20 Fluid Feed system - Pump unit only	X	X
n/a	Power lead - country specific*	X	X
WELC2709	Lead w/ handle 4M, fluid feed, 50A (x-con.)	X	X
WELC2397	Wand/shroud fluid feed (for 1x M6 brush)	X	X
WELC2149	Cougartron microfibre cloth - 40x40cm (black)	X	X
WELC2743	Mobile workstation		X

**Additional spares**

Part nr.	Description
WELC2628	Replacement pump (2mm ID tube)
WELC3233	FL20 replacement tube kit
WELC2460	Twist shroud (for WELC2397 wand)
WELC5037	Cleaning fluid bottle w. drilled cap - 1L