

GEIST IST GEIL

Die mit dem Sparschwein



New
piggyWelder® 3 Power+



Sturdy carrying handle for mobile use.

Modern touch screen. Lightly touch the desired function. You can set the values by swiping. It's as simple as that.

Easy 1-knob control. Press and turn. That's all you need.

Welding handpiece with 2 m cable

Fixing handpiece

Earth cable with 2 m lead



Microscope 10x



Handpiece



Magnet



Fixing handpiece



Flowmeter

New



piggyWelder® 3 Power+

the new ease of welding

Welding has never been so **easy**. Nor so **powerful** either.
Never as **quick** at any rate.



You select the material - steel, aluminium or copper on the modern touch screen and specify the task: surface, edge, fillet, groove or corner and off you go.



Now with active cooling.

With a **piggyWelder®**, it was always easy to weld simply and quickly. The brand new **piggyWelder® 3 Power +** gets the job done even faster and easier. More powerfully than ever before.

Why is this the case?

The **+** stands for these **new developments**:

- ◆ The amperage (TIG) has been increased by 15% to **720 A**. It means you can weld **wires of up to 1 mmØ** perfectly.
- ◆ To ensure that the device always stays nicely cool, we have incorporated an **active cooling system**, that only activates when required.
- ◆ The ingenious handpiece has been **improved** even further.
- ◆ The new software monitors the welding process:
 - ◆ **Avoidance of welding errors** due to interruption of the welding process in case of excessive pressure on the electrode.
 - ◆ **Increased service life** of the electrode tip.
 - ◆ **Avoidance** of tungsten inclusions on surfaces or on workpieces and materials that still need further processing.
 - ◆ **Improvement** in overall welding quality through more even work.
 - ◆ **Avoidance of errors** during handling:
Enhanced **process reliability** and **more consistent quality**.



The ingenious handpiece



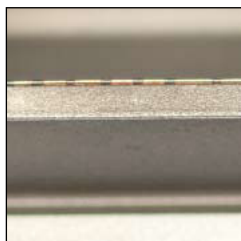
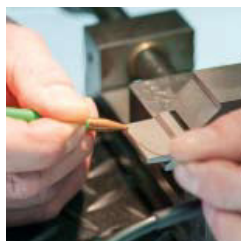
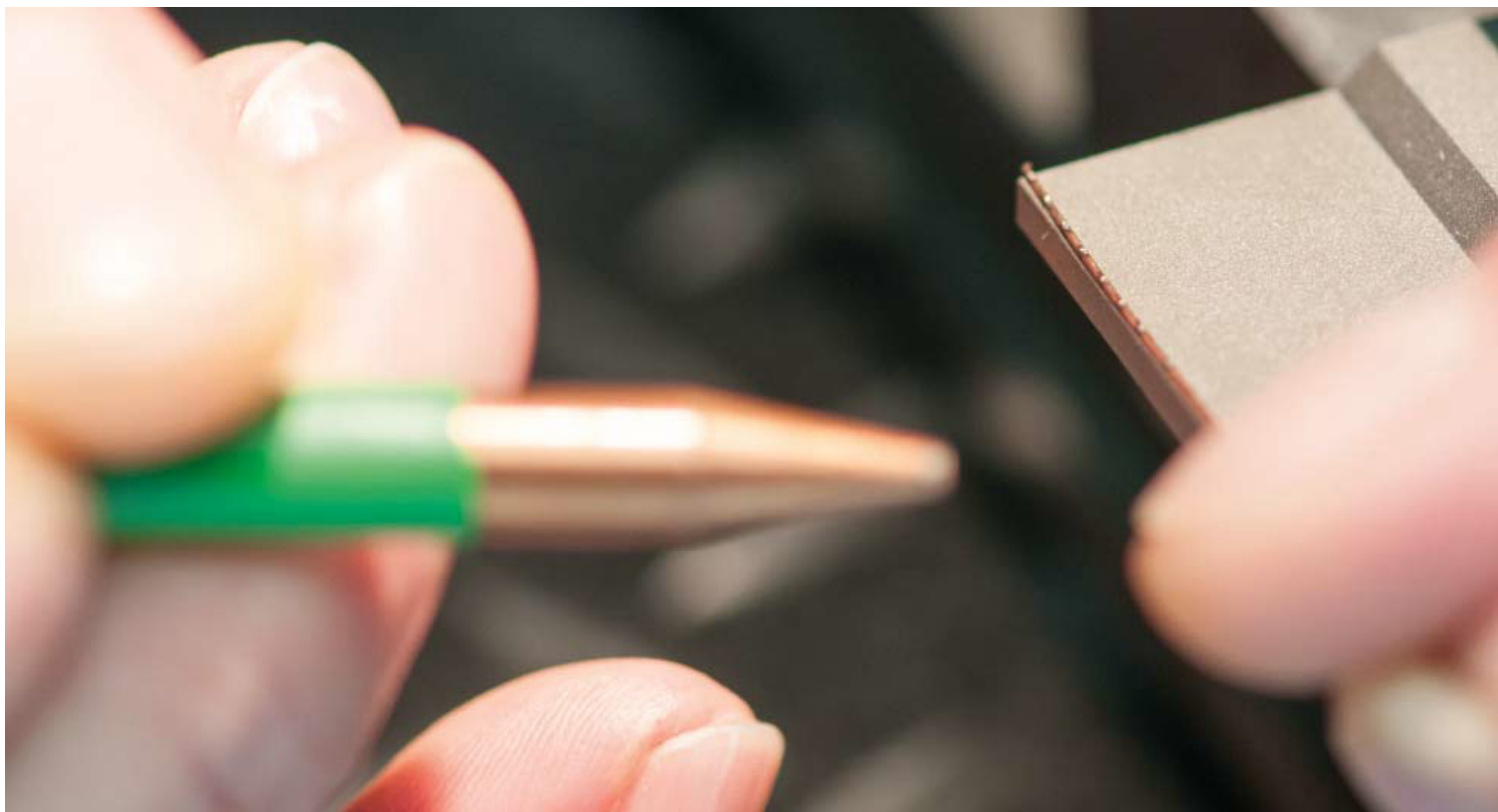
The very light handpiece with the thin, highly flexible cable fits well in your hand

3 electrodes are available: Ø 0.6, 0.8 and 1.0 mm

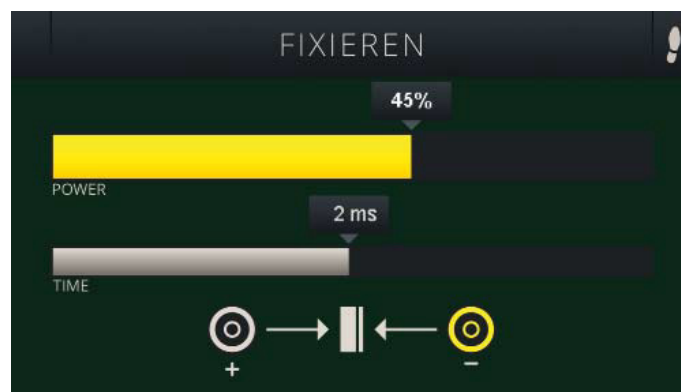
Now select the right wire and you can get down to work:

You touch the exact spot you would like to weld with the electrode tip. (Very accurate).

- ◆ The control unit “interrogates” the handpiece:
“everything OK?”
- ◆ If no, a beep sounds.
- ◆ If yes, the welding process starts.
- ◆ The electrode is retracted into the handpiece by an electromagnet.
- ◆ The microscope is closed for a few milliseconds.
- ◆ In parallel, the welding arc is fired, welding is performed and
- ◆ the microscope opens again.



Fixing



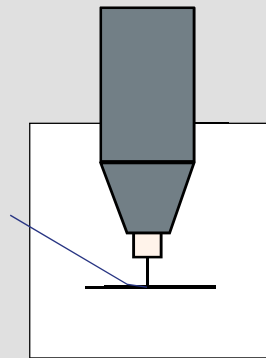
← The symbol shows that you need to work with the foot switch here.

The new **piggyWelder® 3 Power +** has a higher output and a higher pulse frequency for the fixing function.

The rod is secured using the green fixing handpiece. **Fix** it in a number of places and weld an extremely precise seam.

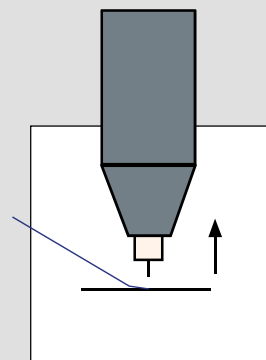
Or attach the rod as **protection** for sensitive surfaces, e.g. graining that you do not want to damage.

Or attach a **non-detachable** compensating film. Makes your life much easier during assembly and of course during disassembly.



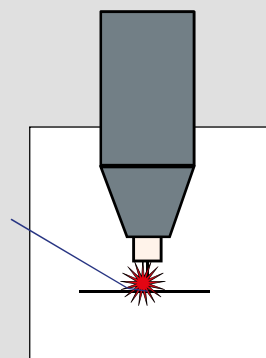
1.

You touch exactly the spot where you want to weld with the thin electrode (e.g. \varnothing 0.6 mm).



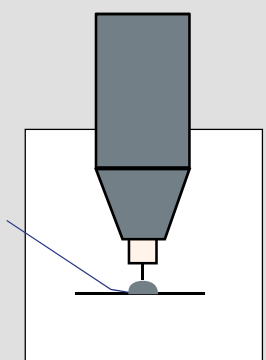
2.

A solenoid system retracts the electrode into the handpiece.



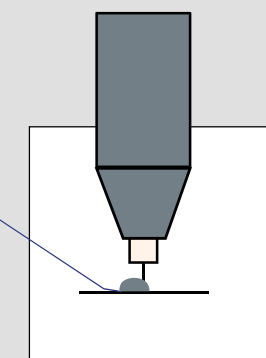
3.

The arc ignites.



4.

The 1st spot is welded.



5.

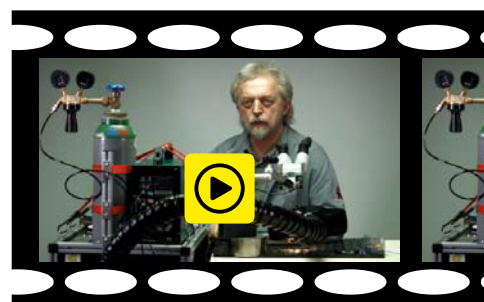
Reposition the electrode and the process starts again.

piggy[®] Videos

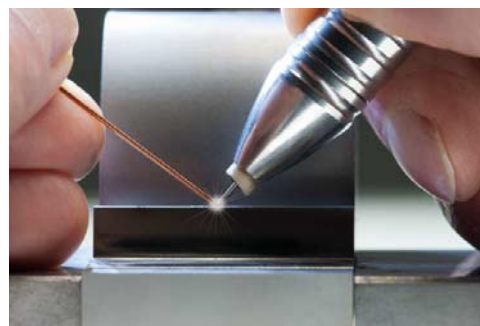
On the left, you can see the welding sequence with a **piggyWelder[®]**. Imagining you are viewing everything under a **microscope** with 10 x magnification gives you an idea of how **precise** it is. So you can convince yourself that welding with the **piggyWelder[®] 3 Power +** is really simple, we have produced a **video** for you.

Click here or use the following link:

www.diesparschweine.de/video_pw3plus



Here you can see welding with a **0.6 mm welding rod** and a **0.6 mm electrode**. This yields precise welding points that you can quickly rework.



The microscope



The microscope offers you:

- ❖ 10 x magnification
- ❖ 3-stage LED lighting
- ❖ easy adjustable hydraulic arm
- ❖ powerful switching magnet
- ❖ comfortable headrest and
- ❖ transparent shield (green).

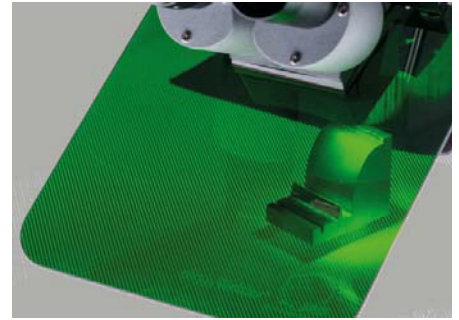
The microscope is controlled by the control unit. This provides reliable eye protection.

With an open microscope, you can see the area in which you want to weld clearly and brightly illuminated. The built-in LED light illuminates the entire area evenly. You can select luminosity from the menu: 50%, 75% and 100%. This avoids glare when welding on highly polished surfaces.

Once the welding process is started, the LCD view guard filter closes the path of rays for the duration of the welding time and your eyes are reliably protected. This all happens in milliseconds.

The microscope head can be positioned quickly and easily using the hydraulic swivel arm. The switching magnet is particularly helpful.

Owning a **piggyWelder®** gives you an additional benefit. The microscope can also be used for quality control or for very precise polishing in tiny places.



A transparent shield for a clear view.



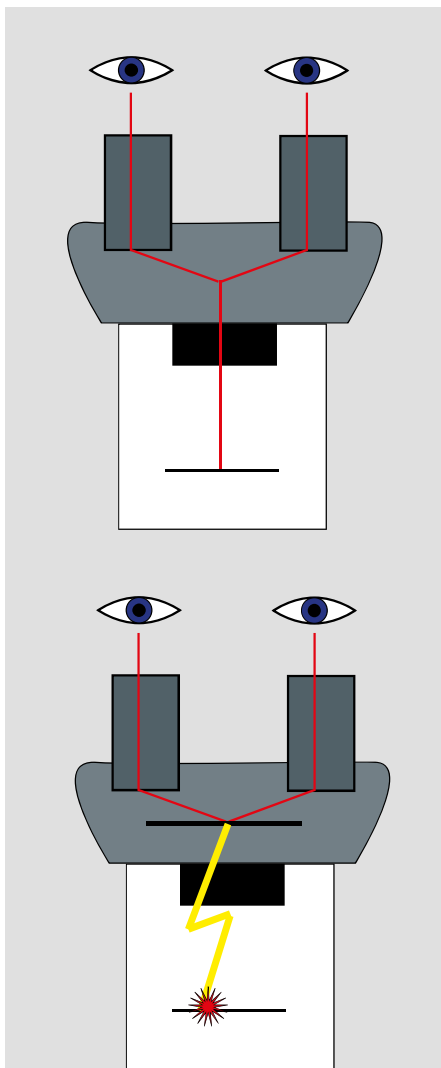
The built-in LED light allows 3-stage adjustment.



The hydraulic arm is adjustable in all directions.



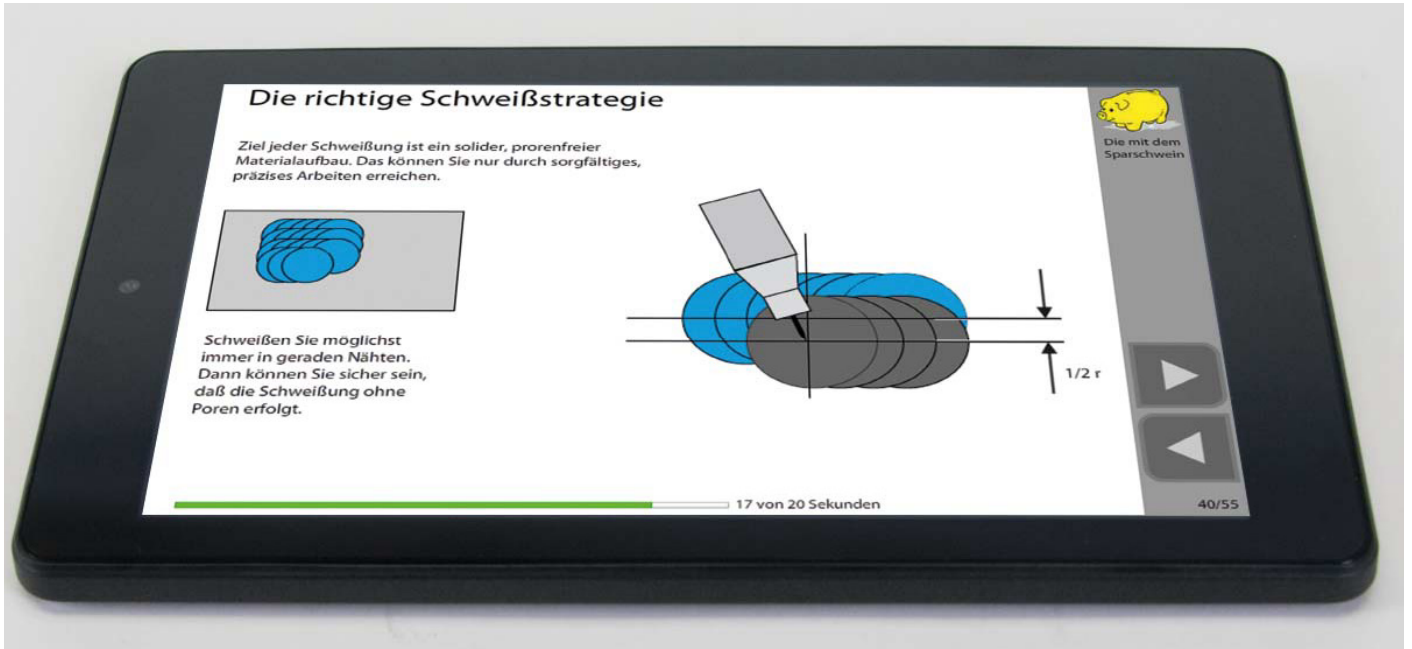
The powerful switching magnet safely retains the microscope on your mould.



Technical data microscope

Magnification	+5°C to +40°C
Illuminant "LED unit"	3W / 800mA
Safety class	III
Insulation class	B
Degree of protection	IP 20
Weight	3.5 kg

The piggy®Teacher



LEARN THE BASES OF PRECISION

WELDING IN 30 MINUTES WITH THE PIGGY®TEACHER.

The more you know about the **piggyWelder® 3 Power +** and precision welding, the better results you will achieve. We therefore developed a teaching program for you that

runs on an Android tablet. You will learn how to use the **piggyWelder® 3 Power +** successfully based on short texts, videos, diagrams and animations. The program is full of useful information all about welding.

You will receive an Android tablet, on which the piggy®Teacher is installed read to use with each **piggyWelder® 3 Power +**. You should study with the piggyTeacher before starting to weld. This takes only about 30 minutes and

The electrodes are ground quickly, simply and accurately.

I can promise you, you will benefit from it.

If you keep the **piggyWelder® 3 Power +**, you can of course keep the tablet too. If not, you will have to return it all with a heavy heart.

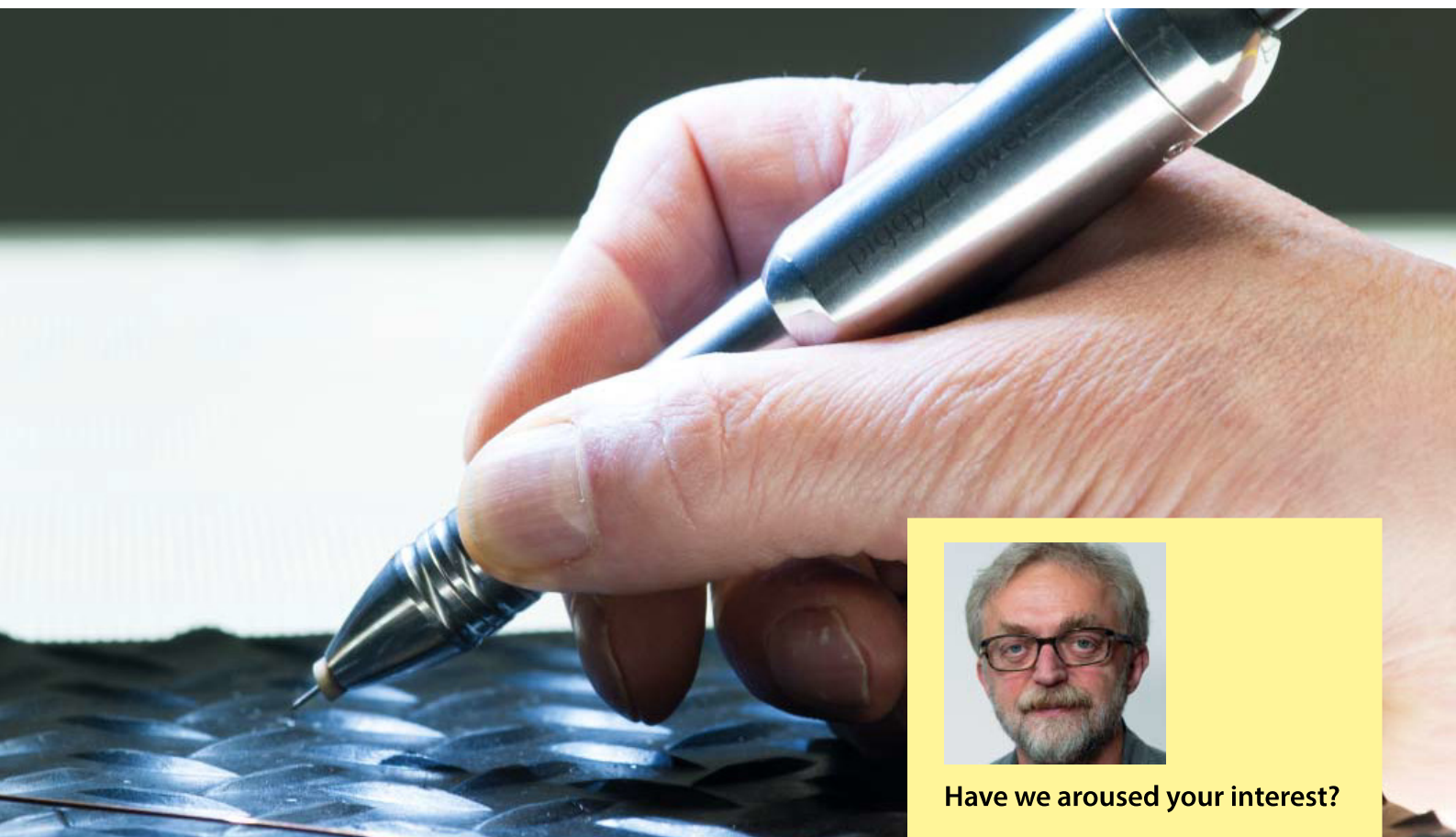
(It is highly likely though that this will not occur, as almost all users have been delighted up to now).

THE 8-DAY TEST WILL ALSO CONVINCING YOU

Preferably see for yourself by conducting your own trial. We will be pleased to send you a complete system including wires according to your specifications for an 8-day test. Free of charge and without any commitment. Including **piggy®Teacher**.

8-day test





Have we aroused your interest?

If so, call me:

☎ **+49 220 4 - 30 66 0**

We will then be able to discuss your tasks and select the right wires for the **8-day test**.

Andreas Botzian

Technical data
iggyWelder®3 Power +

Supply voltage	~230 V / 50 ~60 Hz +/-10%
Fuse	SB 3.15 A
Amperage	4-720 A
No-load voltage	43 V
Duty cycle	80%
Pulse duration	0.5 - 34 msec
Welding cycle	up to 1. Hz
Speed function	up to 2.0 Hz
Cooling	active
Inert gas	ARGON 4.6
Gas pressure	2 bars
Safety class	I
Insulation class	B
Degree of protection	IP 21S
Dimensions LxWxH	320x155x320 mm
Weight	8.8 kg

Scope of supply:

Control unit with touch screen

Handpiece with cable 1.25 m

1 each collet Ø 0.6 and Ø 0.8 mm and
Ø 1 mm

Fixing handpiece

1 each fine welding nozzle Ø 3 and 4 mm

Earth cable 1.50 m with magnet

Stereo microscope 10 x magnification
with eye protection filter, LED lighting,
hydraulic swivel arm, switchable mag-
net (1,200 N)

Flowmeter

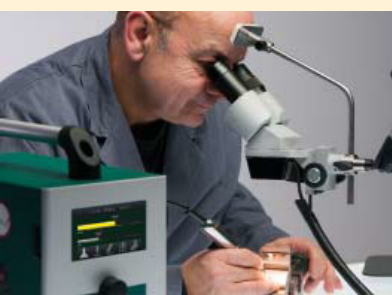
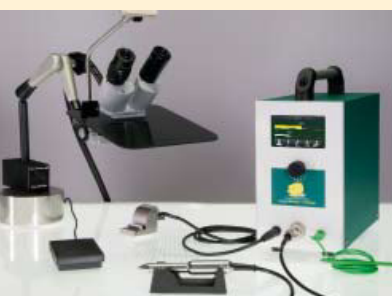
Brass brush

10 each special electrodes Ø 0.6x 50
mm, Ø 0.8 x 50 mm and 1.0 x 200 mm
(without tips) with 1 diamond grinding
disk each.

Foot switch

5 m gas hose

Green transparent protection shield.



Order no.	€/each
32-8600-3+	