

# The new PUK 6.1

Finest precision welding technology



# The new PUK 6.1 is here!

## PROVEN ERGONOMICS - OPTIMIZED FUNCTIONALITY

### Timeless design

The PUK 6 was awarded the iF Design Award 2022 for its elegant appearance. The PUK 6.1 carefully advances its design.

### Optimized performance and functionality

The PUK 6.1 is not only faster and more precise than its predecessor, it also offers configuration of individual settings.



## FUNCTIONALITY

- Faster maximum welding frequency for all PUK Professionals
- Always the perfect speed - Continuously adjustable welding spot sequence
- Memory for up to five individual settings for customized configuration
- Start welding immediately with device startup in the last selected settings
- PIN mode for easy welding of pins (optional equipment required)

## DESIGN

- Clear design language with timeless aesthetics – a visual highlight at every workplace
- Fine, selected materials for the highest demands on value and appearance
- High-resolution display with clear arrangement of all parameters

## OPERATION

- One-handed operation using joystick with turn-push-tilt function
- Newly developed and expert-tested precious metal welding curves for even better results
- Patented welding process control to prevent welding errors

# The proven PUK principle - from day one



## PUK'S OPERATING PRINCIPLE IS AS SIMPLE AS IT IS INGENIOUS

Argon gas is emitted protecting the welding area from oxidation. An electric arc (energy flow) is created from the point where the electrode touches the work piece, and as the electrode retracts, the arc is drawn up from the point of contact. Exactly here, a melting occurs of between 0.2 and 3.0 mm in diameter (depending on the material and parameters being used). The result is a clean and stable weld.

This high degree of precision is made possible by touching the work piece with the tip of the electrode. The electrical arc necessary for welding is thus generated from exactly this point of contact.

By varying the angle at which the electrode tip touches the work piece, the flow of energy can be influenced. Thus, welds can be accurately steered in the desired direction and previously applied metal can be distorted or modelled.

The PUK precision welding equipment puts a multitude of possible applications at your fingertips. Welding on fittings, adding metal to a work piece, joining items prior to soldering, welding a loop, fixing porosity, or welding seams are just a few of the examples possible with PUK.

PUK allows easy adding of metal, especially where material is missing, e.g. in fractures, dents or pores. With the aid of welding wire, material can simply be added and built up.

Generally speaking, all metals or alloys that are suitable for TIG welding, are also suitable for welding with the PUK. Amongst these are precious metals and precious metal alloys as well as many types of steel, titanium, nickel and tin alloys (costume jewellery).

## APPLICATIONS

Convince yourself of the many possible applications of the PUK 6.1 with numerous suggestions and examples:

[www.lampert.info/en/  
applications/  
jewelry-applications/](http://www.lampert.info/en/applications/jewelry-applications/)



# Indispensable for precision & eye protection: our **PUK** welding microscopes



## WELDING MICROSCOPE SM6

- New elegant design, perfectly tailored to the PUK 6.1
- Height and tilt adjustment for optimum workplace comfort and an ergonomic working position
- Cushioned hand supports for comfortable operation
- Powerful LED lighting in the microscope head, adjustable in 4 brightness levels, optimal illumination of the working area
- High-precision with 10-fold magnification (15-fold optional)
- Electronically controlled LCD eye protection system
- Can also be used as a workplace or observation microscope



## WELDING MICROSCOPE WITH ARTICULATED ARM SMG

- Perfectly tailored to the PUK 6.1
- Articulated arm, rotary and pivot action in every direction, making work particular ergonomic, even on bulky objects
- Individually adjustable headrest
- Bench stand for individual bench mounting
- Powerful LED lighting in the microscope head, adjustable in four brightness levels, optimal illumination of the working area
- High-precision with 10-fold magnification (15-fold optional)
- Electronically controlled LCD eye protection system
- Can also be used as a workplace or observation microscope at any time



# Original accessories for the individual perfection of your PUK workplace



## ..... PUK FLOW REGULATOR

An important prerequisite for reliable welding results is the correct gas flow of the inert argon gas.

## PUK ELECTRODE GRINDING MOTOR .....

Simple and rapid grinding of the PUK electrodes. Regular maintenance and care of the electrode tips is vital to very good welding results and can be performed by the grinding motor in the blink of an eye.



## ..... PUK ELECTRODES

Available in various diameters: 0.6 mm, 0.8 mm, 1.0 mm and 1.3 mm. Packaging unit of 5 or 10 tungsten electrodes. The right electrode for every application.

## PUK WELDING WIRES .....

The alloys and dimensions of the welding wires are optimally matched to welding with the PUK: color-fast, easy flowing, for a homogeneous structure. Each wire thickness in environmentally friendly packaging.



## ..... PIN ADAPTER SET

The pin mode of the PUK 6.1 makes it easy to weld pins onto your workpiece. With the pin adapter set for the Lampert welding handpiece, you always have the right pin holder available for every diameter from 0.65 mm to 1.0 mm.

# What distinguishes our PUK

SINCE THE FIRST GENERATION

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## SUPERIOR WELDING TECHNOLOG

- Reproducible and high-quality welding results
- Reliable and stable welding with low heat development
- Welds on filigree workpieces even with the smallest material thicknesses of less than 0.2 mm up to reliable fine welding even on very large objects

## PERFECTLY MATCHED TO ITS FIELD OF APPLICATION

- Developed by gold- and silversmiths for gold- and silversmiths
- Patented WIG welding technology from the inventor of PUK micro pulse fine welding
- Whether a customised individual piece, repair or series production – the PUK is the right choice

## TREND-SETTING ERGONOMICS AND SAFETY

- Intuitive operability
- Safety for the user
- User-friendly technology

## TREMENDOUS EFFICIENCY

- Small physical dimensions
- Very low initial costs
- Very low costs for consumer materials
- Maintenance-free technology

## BENCHMARK FOR QUALITY AND INNOVATION

- Continuous further development of our products
- High standards for production and materials
- We rely on sustainable products and environmentally friendly packaging
- 3 year warranty on our welding technology

# From PUK 111 to PUK 6.1

A SUCCESS STORY FOR  
MORE THAN 20 YEARS!

**LAMPERT.**  
PRECISION WELDING



2004 AJM  
Innovation  
Awards



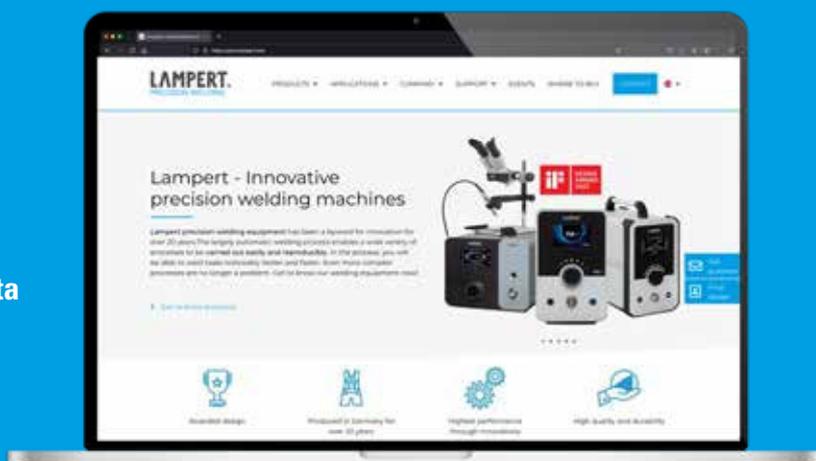
# For highest standards - PUK fine welding technology made in Germany



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