

PUK welding microscope Microscope and eye protection system.

PUK WELDING MICROSCOPE SM5.1



High-quality microscope optics with 10-fold magnification and individual setting establishes the prerequisites for precise work.

Bright PUK eye protection system with integrated LED lighting and four adjustable brightness levels offers optimum illumination of the working area.

Simply moving the handpiece holder away from the field of view increases the action area of the SM5.1, turning it into a multi-purpose microscope.

Padded hand supports simplify the guidance of the workpiece for fatigue-free and ergonomic working.

Height and tilt adjustment provides optimum workplace comfort and an ergonomic working position. At the same time, a spacer sleeve assures the correct distance between the objective lens and the workpiece. The retaining clip on the microscope fastens the connecting hose in place.

PUK WELDING MICROSCOPE SMG5 WITH ARTICULATED ARM

High-quality microscope optics with 10-fold magnification and individual setting establishes the prerequisites for precise work.

Bright PUK eye protection system with integrated LED lighting and four adjustable brightness levels supports the optimum illumination of the working area.

The hydraulic articulated arm can be rotated and swivelled in all directions and then remains in the desired position, creating a particularly ergonomic working environment even for large and bulky objects.

Stable bench stand for simple bench mounting.
Individually adjustable head support for fatigue-free and ergonomic working.



PUK system accessories for individual requirements.



PUK FLOW REGULATOR

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



COMPREHENSIVE ASSORTMENT OF WELDING WIRES

The alloys and dimensions of the welding wires are ideally tailored to suit welding with the PUK fine welding devices. Colour-true, easily flowing, for homogeneous joints, optimum wire thicknesses, on practical spools.



PUK ELECTRODES

Available in various qualities and diameters (0.5 mm, 0.6 mm and 0.8 mm), cost-effective quantities in packs of 10 or 100. The right electrode for every application.



PUK ELECTRODE GRINDING MOTOR

The electrode is often neglected in the welding process. The right angle, a smooth surface, correct grinding direction and the correct selection of thickness and the quality are essential prerequisites for a professional implementation of the welding task. Diamond discs are available in different qualities.



PUK UNIVERSAL CLEANER

Correct welding results can only be achieved, if the welding area is free of contaminants. Using the PUK universal cleaner prior to the welding process should be part of the habitual preparations.

Further information about our equipment, accessories and consumables are available on our website:
www.lampert.info

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Fine welding technology taken to the next level.



PUK 5.1

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Micro-welding, where others leave off.

The new PUK masters the welding of accessories, applying metal, fastening work, welding eyelets, sealing pores, generating seams, welding precious metals incl. silver as well as copper and bronze and all alloys suitable for welding, even material thicknesses of less than 0.2 mm.

The supreme discipline of creating and repairing claw settings with valuable precious stones in the immediate vicinity of the welding process, the PUK masters with bravura.



COMPACT AND VERSATILE TIG-PULSE FINE WELDING DEVICE

For all application areas in the workshop, where precision, reliability and controllability are required – from the smallest repair through serial production and on to extraordinary creations in the production of jewellery.

THE PUK PRINCIPLE IS THE ORIGINAL - INGENIOUS AND UNIQUE

Both our expertise garnered through more than 17 years of experience, and continuous further development are merged in the device. As soon as the tip of the electrode on the handpiece touches the workpiece, the welding process starts automatically. The inert argon gas forms a protective gas atmosphere around the welding spot and prevents disruptive external influences. The current pulse, which is specially shaped and tailored to suit the welding task, ignites an electric arc creating a controlled melting of the metal – and it does so as often and as precisely as desired.

THE NEW EASE OF WELDING

With the PUK the user is able to achieve perfect welding results in gold, silver, platinum, copper and bronze, without a great depth of knowledge in metallurgy being required. Even the processing of stainless steel, titanium and all weldable alloys is within its range of abilities. The PUK takes control of the correct welding parameters for perfect results.



Made with
a PUK



LAMPERT.
precision welding

What's new:

MICRO-WELDING

The application range of the PUK 5.1 is further expanded with material thickness down to less than 0.2 mm allowing the welding of wires and sheets with even greater control.



SMOOTHING

Shorter repetition rates and serial pulses enable a continuous workflow. With this setting, the PUK offers the opportunity to shape the added material as desired and to significantly improve the welding characteristics of highly thermally conductive materials such as silver, copper and bronze.



EXPANDED SELECTION OF METALS

Optimised welding parameters for copper and bronze. The PUK takes over full control despite the high thermal conductivity.

For us, „Made with a PUK“ means:

SUPERIOR WELDING RESULTS

- Reproducible and high-quality welding results
- Suitable for all weldable materials
- Precise positioning of the welding spots
- Electrode diameter from 0.5 mm to 0.8 mm
- Very low, controllable heat generation
- Welding of the thinnest materials

USABILITY AND ERGONOMICS

- Working with the PUK is fun!
- The latest welding technology applicable within the smallest footprint
- Touchscreen and convenient swipe functions for simple settings
- Intuitive, easy to understand and multilingual menu guidance
- Practical presettings for all common materials and welding situations
- 10-fold magnification with microscope support and perfect illumination of the working area
- Diverse and intelligent range of accessories

SAFETY, QUALITY AND RESPONSIBILITY

- DIN CERTCO-certified eye protection in all PUK optical systems
- Tested device safety with CE symbol
- Warranty period of 3 years
- Durable and maintenance-free product quality
- Environmentally-friendly packaging, using no plastic