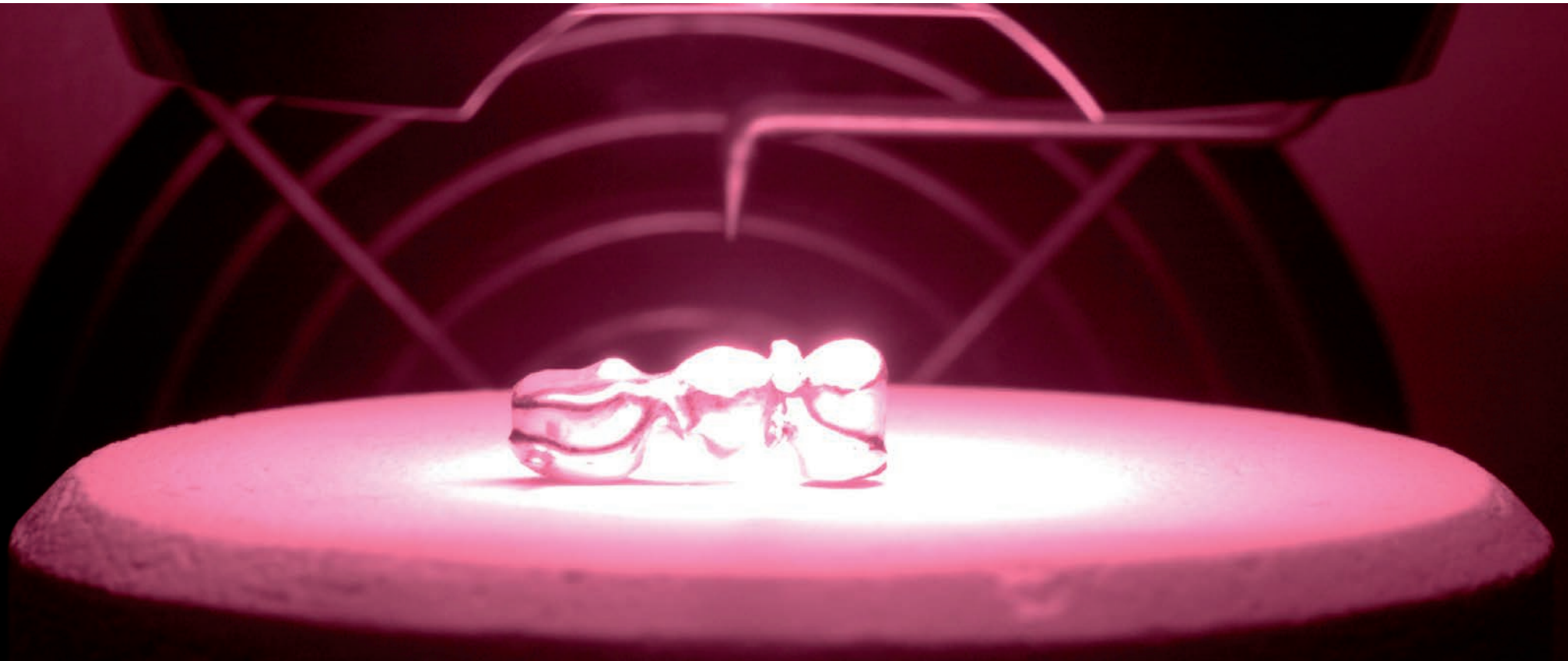


quasar



Equipment
Welding machine

Zhermack 
Dental



quasar

Speed and ease of use are the unique characteristics of **Zhermack's Quasar** welding equipment.

Quasar and Quasar Plus use the thermal energy produced by an infrared electromagnetic wave source for primary and secondary braze welding on precious metals and base-metal alloys without using a direct flame.

Compared with traditional systems, **Quasar** welds guarantee high mechanical resistance and structural uniformity.

Quasar and Quasar Plus produce thermal energy using an optical system of infrared light generating a maximum temperature of 1350°C.

Quasar Plus also has a device to spot weld the metal structure to be welded.

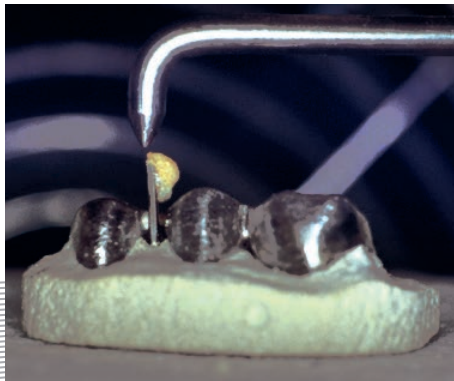
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Zhermack
Dental

USES

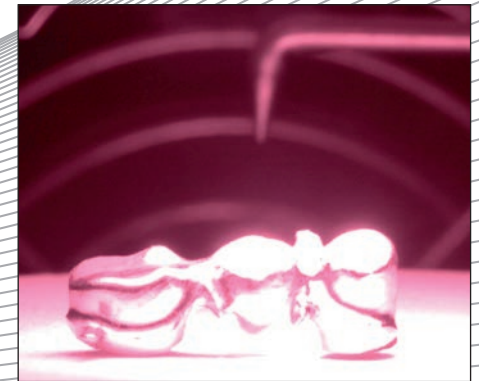
■ QUASAR

Braze welding of precious metals and base-metal alloys with blocking of the prostheses to be welded in the coating.



■ QUASAR PLUS

Braze welding of precious metals and base-metal alloys with blocking of the prosthesis by spot welding in an Argon environment.



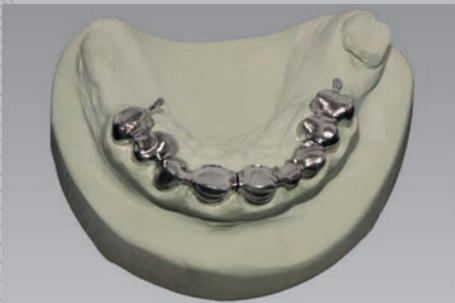


Welding with **Quasar and Quasar Plus** eliminates combustion and excessive oxidation while the metal is heating up.

quasar

USES

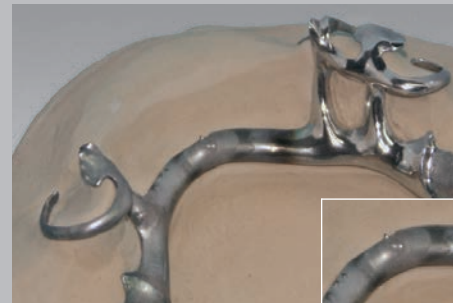
■ Fixed prostheses



■ Implant prostheses



■ Repairs



Welding with **Quasar Plus** is simple and intuitive for all operators right from the start.

Unlike traditional welding methods, with **Quasar Plus** excellent welds can be obtained in about six minutes.

The system is not suitable for precious alloys with a low melting point below 1050° and base-metal alloys with a high nickel content of >35%



CHARACTERISTICS

■ QUASAR ■ QUASAR PLUS

Maximum temperature obtainable	1350°C	1350°C
Temperature indicator	■	■
Darkened protective screen	■	■
Spot welder to centre piece	■	■
Fume suction system	■	■
Joystick to move workplate	■	■
Chamber temperature controller	■	■
Knob for spot welding the piece	-	■
Spot welder power controller	-	■
Pedal and earth clamp for spot welding	-	■
Designed for Argon connection*	-	■
Electrodes included**	-	■

*The Argon is not supplied with the machine. Contact your local supplier.

**Compound for ceramics	Composition					
	Mn	Cr	Mo	Ni	Si	Fe
Cr/Mn	20.0%	20.0%	2.5%	0.2%	1.0%	for completion

Melting temperature and spot welding electrode composition: Co/Cr for ceramics 1450°C

Optional

Compound for removable partial prostheses	Composition					
	Mo	Cr	Ni	Si		
Ni/Cr	25.0%	26.5%	42.0%	2.0%		

Melting temperature and spot welding electrode composition: Ni/Cr for removable partial prostheses 1450°C

Optional

Compound	Composition					
	Au	Pt	Pd	Ga	In	Rn
Au	50.5%	1.0%	38.8%	2.0%	7.4%	x

Melting temperature and spot welding electrode composition: Au 1310°C

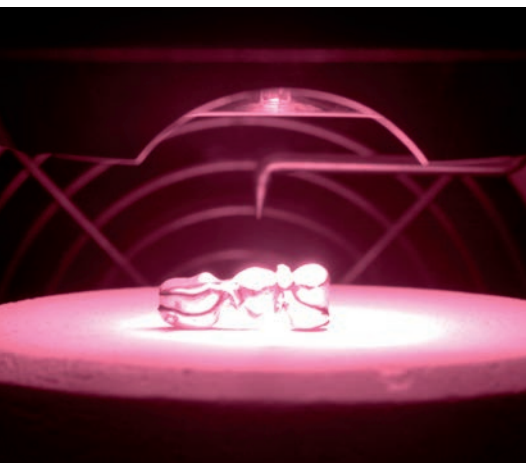
great
precision



The **temperature control system** enables the pieces for welding to be heated gradually without the risk of damaging the metal.

quasar

IN THE SPOTLIGHT



The **temperature focusing system** enables the heated area of the pieces to be welded to be limited to about 1 cm in diameter

The **spot welding module** with plasma technology in Argon environment fitted as standard in the Quasar Plus eliminates the coating placement phase and considerably reduces welding times



The **extraction system** to eliminate the fumes and gases produced during welding reduces the deposit of residues and the possibility of porosity forming within the weld.

The built-in **joystick** enables the workplate to be moved during welding



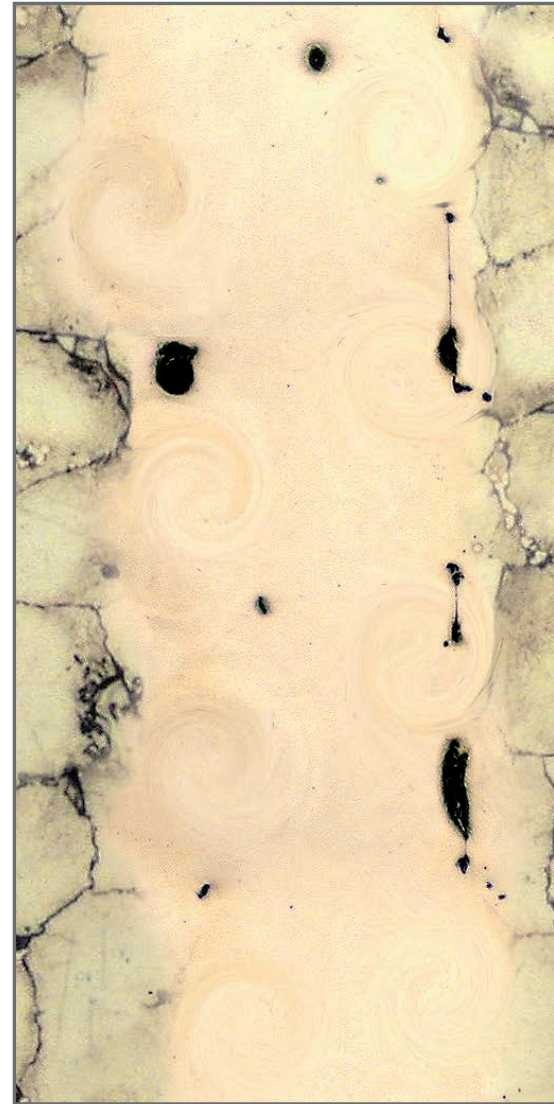
Compared with traditional welding systems, **Quasar** braze welding maintains the crystalline structure of the alloy intact, guaranteeing greater uniformity and chemical-physical resistance.

TECHNIQUE IN THE SPOTLIGHT



Uniform **Quasar** weld, free of flaws in the junction area and with irrelevant porosity in the central area.

Example: **Quasar Plus** welding



Uneven laser weld with evident porosity and at risk of breakage. Laser welding with obvious pointed flaws in the junction area.

Example: **laser** weld

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Models

Code	Model	Dimensions	Weight	Max. temperature	Voltage	Absorbed power
C306800	Quasar infrared welder	L25/D36/H50 cm	27.9 kg	1350°C	230±10%/50-60 (V/Hz)	1100 Watt
C306810	Quasar Plus infrared welder with spot welding system	L25/D36/H50 cm	29 kg	1350°C	230±10%/50-60 (V/Hz)	1100 Watt

Standard equipment - Quasar Plus

	Electrodes for Cr/Co (for ceramics) ø 0,8 mm (x3)
XR0180110	Goggles

Accessories

XR0180050	Electrodes for Cr/Co (for ceramics) ø 0,8 mm (x10)	XR0180080	Electrodes for Cr/Co (for removable partial prostheses) ø 0,5 mm (x10)
XR0180070	Electrodes for Cr/Co (for ceramics) ø 0,5 mm (x10)	XR0180090	Electrodes for Au (for gold alloy) ø 0,8 mm (x10)
XR0180060	Electrodes for Cr/Co (for removable partial prostheses) ø 0,8 mm (x10)	XR0180100	Electrodes for Au (for gold alloy) ø 0,5 mm (x10)

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