



More than 30 years of
Dentaurum laser welding technology.

desktop Compact

Durable connections

Laser welding technology: Premium joining technique.



Fast, effective joining.

Laser welding is up to 80 % faster than conventional soldering. New constructions and repairs are much easier, faster and better.

Maximum stability.

Unlike soldering, laser welding produces a very homogeneous structure of the same material. This is why these joints withstand higher mechanical loading and are more durable. An important benefit for your customers.

Extraordinary precision of fit.

Laser welded structures are far more precise than soldered structures.

Wide range of applications.

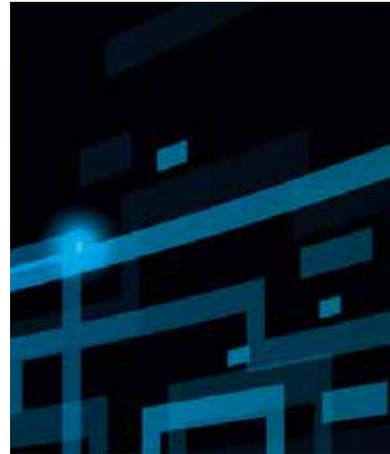
No matter whether repairs (e.g. fractured clasp) or complex new constructions (e.g. complex superstructures) are required, laser welding is faster and of a better quality.



"More satisfaction at work – increased customer loyalty. Technical superiority in comparison with other laboratories. You can take away all the other machines but leave me my laser!"

*(Dentaurum laser,
year of manufacture 2005)*

Andreas Schoch, Wolfegg



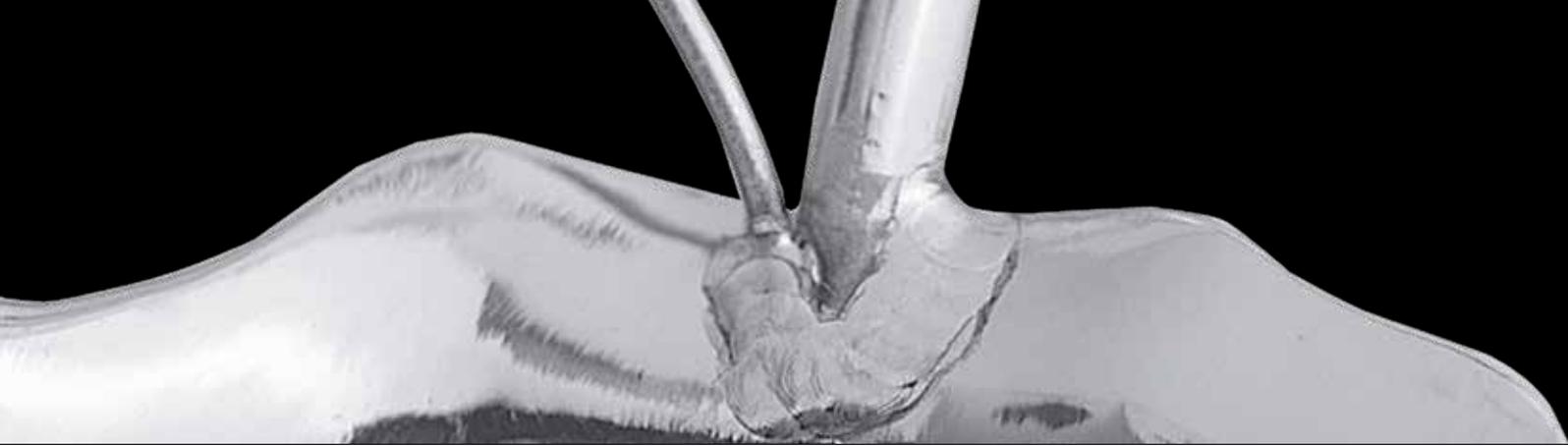
Excellent biocompatibility.

Working without solder, which is very prone to corrosion, makes laser welded constructions so practical. Laser welding technology now enables each laboratory to avoid this serious weak point in classic joining techniques – to benefit patients.

Simple operating logic.

This applies to every operator from beginners to experienced laser users: the operating logic is easy to use for all laser settings.

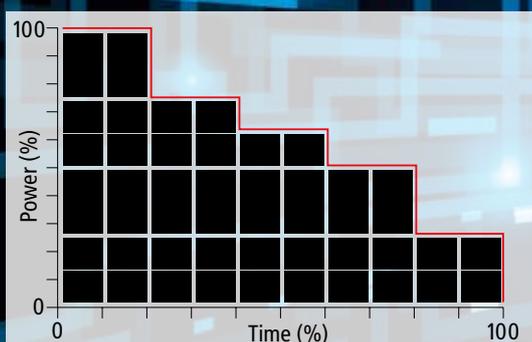
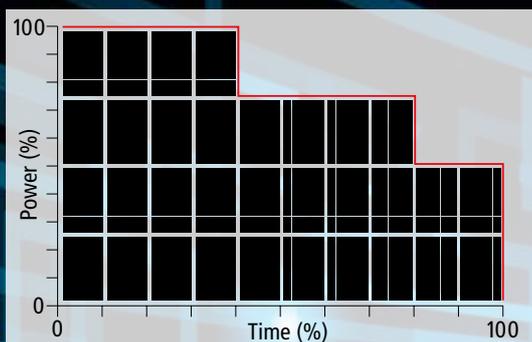
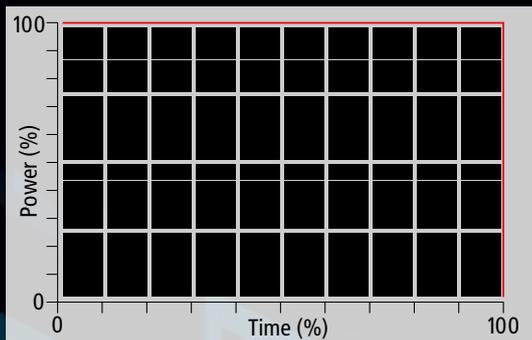


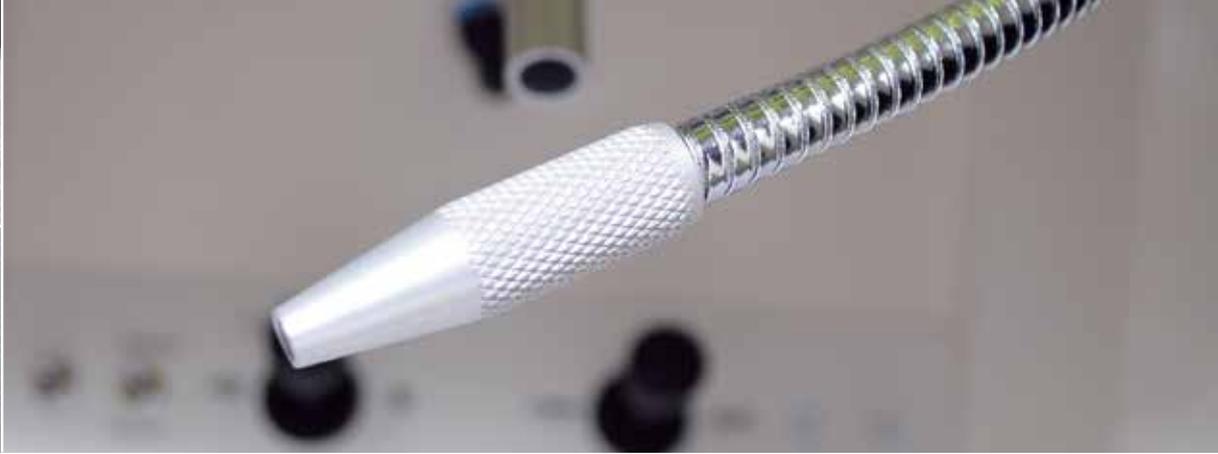


High-tech in precision.

Pulse shaping.

Dentaurum dental lasers were the first to use this technology which includes programmed, timed modulation of the laser impulse, matched to the material. This allows you to work faster and better as well as avoiding cracks and stress. All this facts has been scientifically proven several times.





"Excellent working unit, we have completely done away with soldering. Efficient, quick, effective. We would never do without it."

(Dentaurum laser, year of manufacture 1998)

Häppy Dent GmbH, Berlin

Very high welding energy.

Only a laser easily welds to depths of up to 3 mm. Other welding methods are limited to a maximum of 0.6 mm.

Maximum precision.

The desktop Compact laser can also dose the energy very accurately to spot-weld very thin structures (even less than 0.2 mm thick). Other methods cannot cope with this, which virtually excludes applications such as extending crown margins.

Rapid welding.

Most welding jobs can be carried out in a fraction of the time required by other methods.

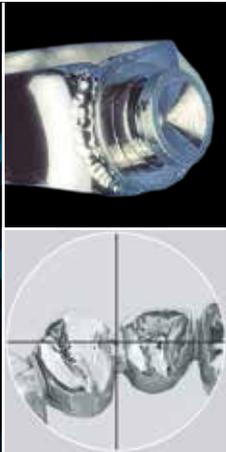
Powerful light optics and bright working chamber.

The microscope with high grade optics ensures a large and well illuminated visual field. The large depth of focus in the working area simplifies precise and reliable welding.

Large variety of materials.

In addition to precious metal, semi-precious or non-precious dental alloys, titanium can also be very easily laser welded. The most commonly used metals in orthodontics can also be precisely and finely welded using the desktop Compact laser.

More than 30 years in laser experience by Dentaaurum.



Great user-friendliness.

Clear and user-friendly touch screen with indications about welding parameters, pulse shaping, memory settings and service program.

Lasers produce the tiniest spot-welds.

Welds can be placed in narrow interdental spaces (even close to ceramics) with the desktop Compact laser. This is not possible with other methods (minimum diameter of a laser spot-weld: approx. 0.3 mm, other methods e.g. Phaser: approx. 1.5 mm).

Variable focus.

The diameter of the laser focal point is infinitely adjustable between 0.2 mm and 2.0 mm. This covers the entire range of welding required for dental technology – from slender restorations to smoothing larger areas.



The long-term experience with dental lasers.

Dentaurum was the first to launch laser welding technology for dental technology on a worldwide basis.

Competent hotline.

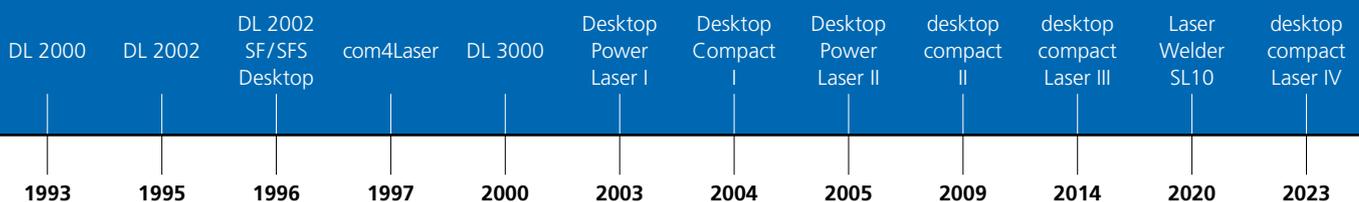
Really great: proud owners of a Dentaurum laser can rely completely on our team of experts for all matters regarding dental technology and all types of laser welding technology. We would be pleased to help you.

All-round customer care.

As soon as the unit is installed on your premises, our technician will brief you so that you can start welding right away and make better use of the beginner's course later on.

The service life.

Virtually all Dentaurum laser welding units ever built are still in daily use.



Laser welding – powerful yet manageable.

More than 20 years of experience in dental laser welding included in a compact table top unit.

"There is no machine in dental technology that provides greater benefits."

*(Dentaurum laser,
year of manufacture 1995)*

Porz Dental, Cologne

From delicate, detailed welding to secure joint welding, even on solid, sturdy framework, the desktop Compact laser can be used for all areas of application in dental prosthetics and orthodontics. The finely adjustable dosage makes welding much easier. Simple machine operation prevents drowsiness at work.

- Compact table top unit.
- Clear and user-friendly touchscreen.
- High output reserve.
- Ergonomically designed – large working chamber with inclining laser axis.
- High quality microscope with a wide field of vision.
- Integrated pulse forming – 4 pre-set pulse shapes.
- Two inert gas nozzles, 1 x flexible and 1 x fixed retractable.
- Large pulse adjustment range – easy operation using joysticks.
- Integrated extraction and cool air nozzle.



desktop Compact



Technical Data

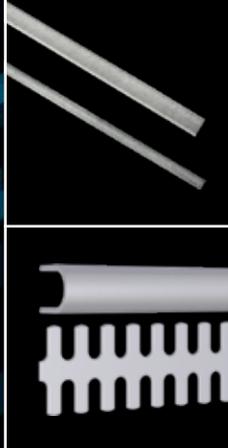
desktop Compact

REF 090-578-50

max. Power	60 W
Peak pulse output	5000 W
Pulse energy	50 J
Pulse duration	0.5 ms – 20 ms
Pulse frequency	single pulse – 25 Hz
Welding spot diameter	0.2 mm – 2.0 mm, infinitely variable motorised adjustment
Memory settings	39
Pulse shaping	4 pre-set pulse shapes
Argon nozzle	1 x flexible, 1 x fixed retractable
Air nozzle	integrated in welding chamber
Extraction	integrated with suspended particle filter
Microscope	Stereo microscope with 16x magnification
Lighting	2 x 3.2 W LED
max. Working height	88 mm
Power voltage	200 V~ – 240 V~
Electric fuse	T 16 A
Power frequency	50 Hz – 60 Hz
Weight	42 kg
Dimensions (W x H x D)	510 mm x 500 mm x 630 mm

Optional

Argon fittings	incl. flow indicator	REF 090-404-00
Electrically adjustable stand	min. working height 740 mm max. working height 1090 mm	REF 090-574-00
Maintenance and customer service contract	annual maintenance by Dentaaurum	REF 099-400-00
Laser safety and technical instruction	at our site in Ispringen or on location	



Accessories laser technique.

CoCr welding wire, \varnothing 0.25 mm	REF 528-215-10	1 piece
CoCr welding wire, \varnothing 0.35 mm	REF 528-210-10	1 piece
CoCr welding wire, \varnothing 0.50 mm	REF 528-200-10	1 piece
NiCr welding wire, \varnothing 0.50 mm	REF 528-220-00	1 piece
rematitan® wire on coils Ti, round, \varnothing 0.4 mm	REF 528-039-50	1 piece
rematitan® wire on coils Ti, round, \varnothing 0.7 mm	REF 528-040-50	1 piece
rematitan® straight wire Ti, round, \varnothing 1.0 mm	REF 528-041-00	10 pieces
rematitan® straight wire Ti, round, \varnothing 1.2 mm	REF 528-042-00	10 pieces
rematitan® straight wire Ti, round, \varnothing 1.5 mm	REF 528-050-00	1 piece
rematitan® straight wire Ti, \varnothing pressed 0.5 mm x 1.5 mm	REF 528-043-00	10 pieces
Adjustable focusing device for the laser welder	REF 090-525-00	1 piece
Testing pellet	REF 090-526-00	5 pieces
Conical pins for laser welding, blue	REF 111-901-00	10 pieces
Electrically adjustable stand	REF 090-574-00	1 piece
Argon fitting	REF 090-404-00	1 assortment
Armrest cushions	REF 090-513-10	2 pieces

➔ Further accessories laser technique can be found in the updated Prosthetics catalog.



Your opinion is important to us.

"DL 2000 (19 years): I am very satisfied with the unit and the service. During the many years in which the unit has been in use, I have only had one problem, which was actually resolved over the telephone. It is the best and most profitable unit that I have ever purchased."

(Dentaurum laser, year of manufacture 1995)

DL Kölbl & Heinrici, Grafing / Munich

"A brilliant aid with any type of metal repair, adjustments of fixed-removable restorations or metal frameworks for ceramic! Quicker and cleaner than soldering or welding. I cannot imagine a dental laboratory without a laser. Everything is possible with the aid of this incredible machine!"

(Dentaurum laser, year of manufacture 1993)

Laufer Zahntechnik, Mannheim

"It provides advantages in repairs, laser welding implant superstructures or in crown and bridge work and also with regard to the Medical Devices Directive (solder is no longer required). As already mentioned, it is difficult to imagine the laboratory routine today without this unit."

(Dentaurum laser, year of manufacture 2001)

H.I.T. Dental GmbH, Sigmaringen



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