

Equipment and Accessories



090-590-00

1 piece

Desktop Compact

The affordable Desktop Laser Welding Unit for use in orthodontic laboratories.

The Desktop Compact Laser is a very reasonable, compact laser-welding unit. The energy and capacity of the Desktop Compact Laser enable all welding tasks to be completed with any type of weldable metal / alloy found in an orthodontic laboratory. The unit has a mechanically adjustable focus and 16 programmable settings.

Technical data:

Average output: 20 W
 Peak pulse output: 3 kW
 Max. pulse energy: 30 Joule
 Pulse duration: 0.5-15 ms
 Welding voltage: 150-350 V
 Max. power consumption/Stand by consumption: 2000 W/120 W
 Focussing range: 0.2-2.0 mm
 Single pulse/permanent pulse: both possible
 Permanent pulse frequency: 0.5-5 Hz
 Focus adjustment: mechanical
 Settings storage: 16
 Argon nozzle: 2 flexible
 Microscope: Leica 16 x
 Lighting: 2 x 20 W
 Weight: 78 kg
 Mains connection: 200-300 V / 50 / 60 Hz

Dimensions: 550 x 460 x 800 mm / 22 x 18 x 31" (WxHxD)

Miscellaneous: Integrated extraction (optional), **REF 090-591-00**
Argon fitting for is not included.



090-400-00

1 piece

OrthoPhaser®

Micro Impulse Welding Unit for orthodontics

- Comfortably working under the microscope
- Integrated eye protection
- Bright illuminated work area
- Preset welding parameters
- Individual parameter settings, can be stored
- Easy control via LEDs
- User friendly design and very compact
- Technical data: 230 V / 50 / 60 Hz
- Weight: 6 kg

Dimensions:

Control unit: 155 x 232 x 281 mm / 6 x 9 x 11" (WxHxD)

Microscope stand with handpiece holder 330x540x340mm / 13x21x13" (WxHxD)

Availability:

OrthoPhaser® complete with connecting cable, 10 special tungsten-electrodes, 1 Diasint, 1 glass brush and 2 connecting clasps (Crocodile clips)

Argon fitting for is not included.

Argon fitting for laser/OrthoPhaser®

For connecting the OrthoPhaser® to the argon bottle.

090-404-00	1 Assortment
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Special Tungsten Electrodes

For OrthoPhaser®.
Special electrodes for orthodontic use.

090-401-00	10 pieces
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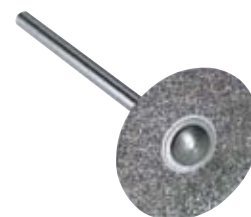
Diasint Disc

For grinding and preparing the special tungsten electrodes. Fully sintered diamond disc, ridged, fine grain. Mounted. Suggested rotations: 10000 Rpm.

Thickness 0.4 mm, ø 22 mm

Shaft ø 2.35 mm

137-856-00	1 piece
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Glass Brush

For OrthoPhaser®.
For cleaning the welding spot.

090-402-00	1 piece
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Connecting Clip "Crocodile Clips"

For OrthoPhaser®.
With 100 cm cable.

090-403-00	1 piece
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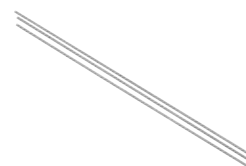
rematitan® Straight Wire, round

According to DIN 17850

For laser welding.

Recommended as additional material for laser welding, such as removable appliances (Titanium Palex® Maxi - 12).

ø	Length	REF	Quantity
1,00 mm / 39	each 100 mm	528-041-00	10 pieces
1,20 mm / 47	each 100 mm	528-042-00	10 pieces



Equipment and Accessories



rematitan® Wire, round

According to DIN 17850

For laser welding.

Recommended as additional material for laser welding, such as removable appliances (Titanium Palex® Maxi - 12).

Ø	Length	REF	Quantity
0,40 mm / 16	2 m	528-039-50	1 piece

CE 0483



CoCr Welding Wire

Perfect dimensions for use when laser welding all CoCr alloys. Delustered surface for enhanced energy absorption.

Ø	Length	REF	Quantity
0,35 mm / 14	2 m	528-210-00	1 piece
0,50 mm / 20	2 m	528-200-50	1 piece

CE 0483



NiCr Welding Wire

For laser welding NiCr based alloys.

Ø	Length	REF	Quantity
0,50 mm / 20	2 m	528-220-00	1 piece

CE 0483



077-000-01	1 piece
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Spot Welding Unit – Junior 3000

- Pulse current up to 1200 amps
- Two welding settings
- One soldering setting
- No continuous soldering
- Rocker switch for operating mode
- Connection for hand electrode
- Connection for foot switch
- Model: 115 V / 50 / 60 Hz

Dimensions: 335 x 130 x 310 mm / 13 x 5 x 12" (WxHxD)

Hand electrodes, holder for hand electrodes and foot switch are not included.



078-000-00	1 piece
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Spot Welding Unit – Assistant 3000

- Pulse current up to 2000 amps
- Six welding settings
- Two soldering settings
- Button for continuous soldering
- LED display
- Automatic voltage detection
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
 - overheating
 - check electrodes
- connection for handpiece
- connection for foot switch
- Model: 110-240 V / 50 / 60 Hz

Dimensions: 335 x 130 x 310 mm / 13 x 5 x 12" (WxHxD)

Hand electrodes, holder for hand electrodes and foot switch are not included.

Spot Welding Unit – Master 3000

- Pulse current up to 2200 amps
- Continuous power adjustment in all modes
- Button for continuous soldering
- LCD-display with 5 language settings (German, English, French, Italian, Spanish) for selection by the customer
- Automatic voltage detection (110-240 V)
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
 - overheating
 - check electrodes
 - system problems
- Printer connection e.g. for welding report as patient documentation, REF 090-581-00
- Connection for hand electrode
- Connection for foot switch
- Model: 110-240 V / 50 / 60 Hz

Dimensions: 335 x 130 x 310 mm / 13 x 5 x 12" (WxHxD)

Hand electrodes, holder for hand electrodes and foot switch are not included.

079-000-00	1 piece
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Foot Switch

Can be used for the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

080-116-00	1 piece
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Hand Electrode, single

Suitable for all Dentaureum Spot Welding Units.

081-101-00	1 piece
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Holder for Hand Electrode

For right and left side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

081-204-00	2 pieces
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Holder for Hand Electrode

For right side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.

081-205-00	1 piece
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Equipment and Accessories



081-206-00

1 piece

Holder for Hand Electrode

For left side of the Spot Welding Units Junior 3000, Assistant 3000 and Master 3000.



081-601-00

1 piece

Soldering Carbon for Hand Electrode

With copper casing.
Suitable for all Dentaaurum Spot Welding Units.



081-501-00

2 pieces

Electrode, notched

For soft-annealing, tempering and welding.
Suitable for all Dentaaurum Spot Welding Units.



081-701-00

1 piece

Clamping Electrode

For soft-annealing, tempering and welding.
Suitable for all Dentaaurum Spot Welding Units.



085-000-00

1 piece

Upper Welding Electrode

- copper
- round, fine

Suitable for all Dentaaurum Spot Welding Units.



085-100-00

1 piece

Upper Welding Electrode

- copper
- wide, flat

Suitable for all Dentaaurum Spot Welding Units.



085-200-00

1 piece

Upper Welding Electrode

- copper
- round, thick

Suitable for all Dentaaurum Spot Welding Units.



086-000-00

1 piece

Lower Welding Electrode

- copper
- round, fine

Suitable for all Dentaaurum Spot Welding Units.



086-100-00

1 piece

Lower Welding Electrode

- copper
- wide, notched

Suitable for all Dentaaurum Spot Welding Units.

Equipment and Accessories

Lower Welding Electrode

- copper
- round, thick

Suitable for all Dentaureum Spot Welding Units.

086-200-00

1 piece



Lower Welding Electrode

- copper
- wide, flat

Suitable for all Dentaureum Spot Welding Units.

086-300-00

1 piece



Soldering Electrode

Carbon with holder, suitable for all Dentaureum Spot Welding Units.

085-300-00

1 piece



Carbon Insert

For Soldering Electrode REF 085-300-00.

085-400-00

10 pieces



Screws

For tightening electrodes on Dentaureum Spot Welding Units.

084-100-00

10 pieces



Fuse, 2 Amp

Slow acting - 220 V.

907-047-10

1 piece



Fuse, 3.15 Amp

Slow acting - 220 V.

907-037-10

1 piece



Screw Driver

For replacing electrodes on all Dentaureum Spot Welding Units.

083-100-00

1 piece



Files

For sanding copper and carbon electrodes on Spot Welding Units.

083-300-00

10 pieces



Equipment and Accessories



380-070-00	100 g
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Heat Screen

Protects metals, plastics and ceramic parts against heat damage during soldering.



681-100-00	50 g
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Dentaflux®

Universal flux for flame and electro soldering.



381-001-00	25 pieces
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CE 0483

Universal Solder Pellets

oval

Cadmium free.

Ready fluxed.

Working temperature: 700 °C / 1292 °F



380-804-50	1 piece
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CE 0483

Universal Silver Solder Paste

in syringe, each 7.5 g

Cadmium free.

Ready fluxed.

Working temperature: 630 °C / 1166 °F



380-604-50	1,2 g
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380-604-60	10 x 1,2 g
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CE 0483

Universal Silver Solder

In rods, ready fluxed.

Cadmium free.

Working temperature: 700 °C / 1292 °F



380-704-50	10 g
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CE 0483

Universal Silver Solder

In rolls, without flux.

Cadmium free.

Working temperature: 700 °C / 1292 °F



380-600-50	1,8 g
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CE 0483

White Gold Solder

In rods, ready fluxed.

Cadmium free.

Working temperature: 950 °C / 1742 °F

Suction unit with charcoal filter

For protection from vapour during processing of plastics in the laboratory. Easy-change filter, device controlled by a light barrier, switches on and off automatically, includes hour meter.

Technical data:

Voltage: 230 V~ / 50 Hz / 100 W

Weight: 6 kg

Dimensions:

220 x 260 x 260 mm / 9 x 10 x 10"
(W x H x D)

072-001-00	1 piece
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Dual Wheel Model Trimmer

For plaster models. Coarse and fine corundum grinding wheels. Can be used on either side. Separately controlled motor switches with 450 Watt output. Individually controlled water supply by way of magnetic water valve. Work area with squaring and angulation devices.

Technical data:

Voltage: 110 V~ / 50 / 60 Hz

Power Rating: 2 x 450 W

Weight: 39 kg / 86 lbs

Dimensions:

530 x 400 x 385 mm/ 21 x 16 x 15"
(W x H x D)

091-110-00	1 piece
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Color: Front/grey - Back/blue

Corundum Disk, coarse 46

For Dentaurum Dual Wheel Model Trimmer.

091-101-00	1 piece
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Corundum Disk, fine 120

For Dentaurum Dual Wheel Model Trimmer.

091-102-00	1 piece
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Diamond Wheel

For Dentaurum Dual Wheel Model Trimmer REF 091-100-00. Long life span. High grinding performance. Less force required.

091-105-00	1 piece
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Mini-Torch

Ignition and flame adjustment is easy and uncomplicated. Automatic, with a flick of your finger. To fill is easy as filling a lighter.

Universal use:

Soldering and flaming wax. Adjustable nozzle.

GS approved.

Technical Data:

Weight: 180 g / 6 1/3 oz

Full capacity of the butane tank: 64 ml

Maximum temperature: 1300 °C / 2372 °F.

Dimensions: 142x105 mm/5 1/2x4 1/4" (HxW)

097-400-01	1 piece
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Equipment and Accessories



089-611-00

1 piece

Thermomat

Electric wax knife with transformer. 1 wax knife REF 089-602-00 is included.

Technical Data:

Voltage: 110 V~ / 60 Hz

Max. Temperature 280 °C / 536 °F adjustable.

Length of cable: 95 cm / 37"



089-602-00

1 piece

Wax Knife, small

For Thermomat REF 089-611-00.



089-603-00

1 piece

Model Tip, fine

For Thermomat REF 089-611-00.



089-604-00

1 piece

Model Tip, medium

For Thermomat REF 089-611-00.



089-605-00

1 piece

Wax Knife, large

For Thermomat REF 089-611-00.



089-606-00

1 piece

Modeling Spoon

For Thermomat REF 089-611-00.



089-612-00

1 piece

Hand Piece with Cable

For Thermomat REF 089-611-00.

