

## Welding units and accessories

### desktop Compact

#### Laser welding – Powerful yet manageable.

15 years of experience in dental laser welding included in a compact table top unit. 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 so much easier. Until now, such compact machine measurements were not available in this laser performance category. Simple machine operation prevents drowsiness at work.



090-578-00	1 piece
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#### Advantages:

- extremely compact table top unit
- 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

#### Technical data

Max. power	50 W
Pulse energy	5 J
Peak pulse output	5 kW
Pulse duration	0.5 - 20 ms
Pulse frequency	single pulse – 25 Hz
Welding spot diameter	0.2 - 2.0 mm, infinitely variable motorised adjustment
Settings storage	39
Pulse shaping	4 pre-set pulse shapes
Argon flushing	1x flexible, 1x fixed
Air nozzle	cool air nozzle integrated within the welding chamber
Extraction	integrated with suspended particle filter
Microscope	Stereo microscope with 16x magnification
Lighting	2 x 20 W Halogen
Dimensions (W x H x D)	510 x 430 x 645 mm
Weight	50 kg
Mains connection	230 V / 10 A / 50/60 Hz
Recommended table height	0.7 - 0.75 m

## Welding units and accessories

### Electrically adjustable stand

The answer to unsurpassed ergonomics.

#### Advantages:

- this stand offers the user the best possible ergonomics
- the electrically adjustable stand enables the technician to change to his or her comfort level, via a foot switch, within seconds. This offers the most comfortable viewing level, and assures full concentration on the laser work
- the stand is designed to guarantee fatigue-free laser welding, even after extended periods of time
- applicable to desktop Compact Laser or Desktop Power Laser

090-574-00	1 piece
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#### Technical data

Minimum working height	740 mm
Maximum working height	1090 mm
Operation	integrated foot switch

### OrthoPhaser®

Micro impulse welding unit

#### Advantages:

- comfortable working under the microscope
- integrated eye protection
- bright illumination of the working area
- pre-programmed parameters
- individual parameter settings can be stored
- easy monitoring via LED
- user friendly design and compact construction
- model: 230 V / 50 / 60 Hz
- fine, delicate welding performance possible for orthodontic use
- material preserving and bio compatible joining technique for almost all metal dental materials, including titanium

090-400-00	1 piece
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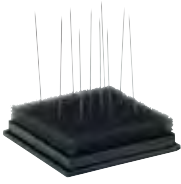


**Argon fitting is not supplied with the OrthoPhaser®.**

#### Technical data

Wattage	1.4 kW
Operating voltage	20 - 40 V
Non-productive voltage	40 V
Max. load	2 s
Protective gas	Argon 99.996% (Argon 4.6)
Max. gas pressure	10 bar
Weight	6.05 kg
Mains connection	230 V, 50/60 Hz +/- 15%

## Welding units and accessories



090-401-00

10 pieces

### Special Tungsten Electrodes

For OrthoPhaser®.

Special electrodes for orthodontic use.



137-856-00

1 piece

### Diasint Disc

For grinding and preparing the special tungsten electrodes. Fully sintered diamond disc, ridged, fine grain. Mounted. Suggested rotations: 10000 min<sup>-1</sup>

**Thickness 0.4 mm, ø 22 mm**

**Shaft ø 2.35 mm**



090-402-00

1 piece

### Glass Brush

For OrthoPhaser®.

For cleaning the welding spot.



090-403-00

1 piece

### Connecting Clip "Crocodile Clips"

For OrthoPhaser®.

With 100 cm cable.

## Welding units and accessories

### CoCr welding wire

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

#### 2 m Coil

ø 0.35 mm

<b>528-210-00</b>	1 piece
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CE 0483



#### 2 m Coil

ø 0.5 mm

<b>528-200-50</b>	1 piece
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CE 0483



### Composition (percentage by mass)

Co	Cr	Mo
65	28	5.5

Additional elements less than 1%: Si, Mn

### NiCr welding wire

For laser welding NiCr based alloys. Specifically for high grade alloys such as remanium® CS+, CSe and G-soft.

#### 2 m Coil

ø 0.5 mm

<b>528-220-00</b>	1 piece
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CE 0483



### Composition (percentage by mass)

Ni	Cr	Mo	Nb	Ta	Fe
61	22	9	2	2	1

Additional elements less than 1%: Mn, Si, Al, Ti, Co

### Pure titanium wire – grade 1

according to DIN 17850 for laser welding

#### Shapes:

round  $\varnothing$   
rolled  $\varnothing$

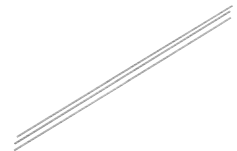
Length of rods: 50 mm

Length of coils: 2 m

The wire with ø 1.5 mm is recommended for axes of swing locks.

Diameter	Length	REF	Pack.
ø 0.4 mm	2 m	<b>528-039-50</b>	1 coil
ø 0.7 mm	2 m	<b>528-040-50</b>	1 coil
ø 1.0 mm	100 mm	<b>528-041-00</b>	10 rods
ø 1.2 mm	100 mm	<b>528-042-00</b>	10 rods
ø 1.5 mm	50 mm	<b>528-050-00</b>	1 rod
$\varnothing$ 0.25x3.0 mm	100 mm	<b>528-044-00</b>	10 rods
$\varnothing$ 0.5x1.5 mm	100 mm	<b>528-043-00</b>	10 rods

CE 0483



## Welding units and accessories



090-525-00	1 piece
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### Adjustable focusing device for the laser welder

This holder is a device for the perfect adjustment of the crosshair of dental laser welders. The testing plate is clamped into the adjustable holder. The height is then perfectly adjusted in the welding chamber. As soon as the testing plate is visible in the microscope, the laser beam is aimed at the testing plate and the crosshair can be aligned with that particular point.



090-526-00	5 pieces
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### Testing plates

To use with Adjustable focusing device for the laser welder REF 090-525-00.



090-520-00	1 piece
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### Paralas

Device for parallel alignment of attachments for the laser welding technique.

Incl. 2 paralleling holders for bars: 1.6 mm and 2.1 mm.



micro 1.6 mm	210-023-00	1 piece
macro 2.1 mm	210-013-00	1 piece

### Parallel holder for bars

Available in 2 designs for bar hinges.



090-404-00	1 Assortment
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### Argon fitting

For OrthoPhaser®.  
Flow rate shown in Liter.

For connecting the OrthoPhaser® to the argon bottle.



090-513-10	2 pieces
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### Armrest cushions

For laser.

## Welding units and accessories

### 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: 230 V / 50 / 60 Hz

077-000-00	1 piece
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**Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.**

### Spot Welding Unit – Assistent 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

078-000-00	1 piece
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**Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.**

### Spot Welding Unit – Master 3000

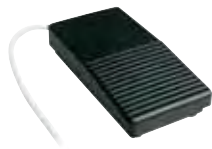
- pulse current up to 2200 amps
- continuous power adjustment in all modes
- button for continuous soldering
- LCD-display with 5 language settings (German, English, French, Italian, Spanish) for selection by the customer
- automatic voltage detection (110-240 V)
- current limitation if electrode is 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

079-000-00	1 piece
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**Hand electrodes, holder for hand electrodes and foot switch are not included in delivery.**

## Welding units and accessories



080-116-00

1 piece

### Foot Switch

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



081-101-00

1 piece

### Hand Electrode, single

Suitable for all Dentaureum Spot Welding Units.



081-204-00

2 pieces

### Holder for Hand Electrode

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



081-205-00

1 piece

### Holder for Hand Electrode

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



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 Dentaureum Spot Welding Units.



081-501-00

2 pieces

### Electrode, notched

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



081-701-00

1 piece

### Clamping Electrode

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



085-000-00

1 piece

### Upper Welding Electrode

- copper
- round, fine

Suitable for all Dentaureum Spot Welding Units.



085-100-00

1 piece

### Upper Welding Electrode

- copper
- wide, flat

Suitable for all Dentaureum Spot Welding Units.

## Welding units and accessories

### Upper Welding Electrode

- copper
- round, thick

Suitable for all Dentaureum Spot Welding Units.

085-200-00	1 piece
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### Lower Welding Electrode

- copper
- round, fine

Suitable for all Dentaureum Spot Welding Units.

086-000-00	1 piece
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### Lower Welding Electrode

- copper
- wide, notched

Suitable for all Dentaureum Spot Welding Units.

086-100-00	1 piece
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### Lower Welding Electrode

- copper
- round, thick

Suitable for all Dentaureum Spot Welding Units.

086-200-00	1 piece
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### Lower Welding Electrode

- copper
- wide, flat

Suitable for all Dentaureum Spot Welding Units.

086-300-00	1 piece
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### Soldering Electrode

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

085-300-00	1 piece
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### Carbon Insert

For Soldering Electrode REF 085-300-00.

085-400-00	10 pieces
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### Screw

For tightening electrodes on Dentaureum Spot Welding Units.

084-100-00	10 pieces
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### Fuse, 2 Amps

Slow acting - 220 V.

907-047-10	1 piece
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### Fuse, 3.15 Amps

Slow acting - 220 V.

907-037-10	1 piece
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### Screw Driver

For replacing electrodes on all Dentaureum Spot Welding Units.

083-100-00	1 piece
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## Welding units and accessories



083-300-00	10 pieces
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### Files

For sanding copper and carbon electrodes on Spot Welding Units.



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 8.0 g**  
Cadmium free.  
Ready fluxed.  
Working temperature: 630 °C / 1166 °F



380-604-50	1.2 g
380-604-60	10 x 1.2 g

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	1.6 g
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CE 0483

### White Gold Solder

In rods, ready fluxed.  
Cadmium free.  
Kt. 18.6  
Working temperature: 870–910 °C /  
1598–1670 °F  
ø 1-1.1 mm

## Casting unit megapuls compact and accessories

### compact megapuls

The new megapuls compact is an extremely compact, high frequency, centrifugal casting unit. Can be used for all types of casting requirements within the dental laboratory from non-precious metal alloys to precious metal alloys (except titanium). Easy operation and high centrifugal strength, aid in producing perfect casting results including detailed technical work.

#### Advantages:

- exceptionally compact, high frequency casting machine
- extremely good value for money
- very short melting cycles due to strong performance, the casting arm quickly comes to a halt
- capable of casting 25 x in succession
- short melting times: e.g. CoCr model casting approx. 40 s
- easy operation
- high centrifugal strength
- casting performance can be adjusted gradually
- HF coil is lowered automatically

#### Further product informations:

Folder REF 989-449-20

090-620-00	1 piece
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#### Technical data

Mains connection	230 V / 50/60 Hz
Max. power consumption	2.4 kW
Average power consumption	1.5 kW
Contact protection category	I
Torque	0...21 Nm
Max. melting quantity	100 g precious alloy, 70 g CoCr
Max. melting temperature	1750 °C/3182 °F
Max. power output	2.2 kW
Cooling water flow	1 l/min
Dimensions (W x H x D)	560 x 400 x 580 mm
Weight	55 kg

## Casting unit megapuls compact and accessories



<b>090-611-00</b>	10 pieces
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### Crucible for Megapuls compact

Ceramic crucible for CoCr, NiCr and Pd alloys.

- longer service life
- minimum adherence of metal and slag



<b>090-615-00</b>	10 pieces
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### Graphite insert

For ceramic crucible REF 090-611-00.  
For melting of precious alloys.



<b>090-606-00</b>	1 piece
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### Table with integrated water tank and pump

The circulating cooling water makes it possible to operate the casting machine without an exterior water supply. At the same time the height of the table guarantees optimal working conditions.

#### Technical data

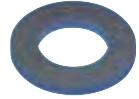
Mains connection	230 V / 50/60 Hz
Power consumption	220 W / 1.1 A
Volume of water tank	24 l
Water supply	9 l/min
Max. water pressure	3.3 bar
Room temperature when in use	15 - 40 °C / 59 - 104 °F
Storage temperature	5 - 40 °C / 41 - 104 °F
Dimensions (W x D x H)	680 x 650 x 600 mm
Weight	35 kg

## Casting units – Accessories

### Ceramic seal

Asbestos free.  
High temperature resistant casting ring seal.  
For all rematitan® and autocast casting machines.

090-012-60	100 pieces
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### Copper crucible for casting machines

For rematitan®, rematitan® autocast and autocast universal® 230 casting machines.

090-110-00	1 piece
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### Receptacle for ceramic crucible

For autocast universal® casting machine.

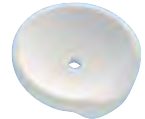
090-160-00	1 piece
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### Ceramic crucible, small

For autocast universal® casting machine.

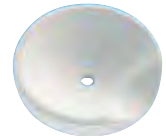
090-161-00	10 pieces
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### Ceramic crucible, large

For autocast universal® casting machine.

090-161-50	10 pieces
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### Crucible electrode

For autocast universal® casting machines.

090-162-00	5 pieces
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### Crucibles

For megapuls casting machines up to year of construction 2005

Ceramic crucibles (MgO, SiO<sub>2</sub>).  
For melting CoCr, NiCr and Pd alloys.

090-610-00	10 pieces
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### Graphite insert

For crucibles REF 090-610-00.  
For melting precious alloys.

090-615-00	10 pieces
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## Vacuum mixer and accessories



### AIRVAC 2002

The AIRVAC 2002 is a universal vacuum mixer for use in dental technology. It can be used for mixing any standard investment, plaster or silicone.

A feature of the integrated industrial motor is its very high torque. The high-performance vacuum pump incorporated in the unit is maintenance-free

095-072-00

1 piece

#### Advantages:

- very easy to operate
- precise positioning of the mixing shaft contributes to a long service life of the mixing motor
- compact
- automatic regulation of the vacuum provides increased reliability
- the mixing motor remains clean and is easily serviced due to a supporting filter and a fine filter in conjunction with the maintenance-free vacuum pump
- direct connection between mixing bowl and vacuum pump – no disturbing exterior hose
- mechanical coupling locks the mixing bowl in position
- a choice of 3 mixing bowls (900 g, 500 g and 120 g)

#### Contents:

- 1 AIRVAC 2002 vacuum mixer
- 1 Mixing bowl, medium
- 1 Instructions for use with EC Declaration of Conformity
- 1 Drilling template
- 1 Fixing set for mounting on the wall

#### Technical data

Mains connection	230 V / 50 Hz
Average power consumption	250 W
Fuse	T3.15 A
Min. vacuum pressure	100 mbar
No. of revolutions mixer	368 rpm
Dimensions (W x H x D)	150 x 325 x 212 mm
Weight	11.5 kg

## Vacuum mixer and accessories

### Unit base for AIRVAC 2002

095-075-00	1 piece
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### Mixing bowl for AIRVAC 2002

1 mixing bowl with agitator, large, for 900 g of investment or 700 g of plaster.

095-062-00	1 piece
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1 mixing bowl with agitator, medium, for 500 g of investment or 400 g of plaster.

095-063-00	1 piece
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1 mixing bowl with agitator, small, for 120 g of investment or 100 g plaster.

095-064-00	1 piece
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## Duplicating machines



### Dublitherm compact

#### The first of a new generation of duplicating dispensers.

The Dublitherm compact is a very economic duplicating machine designed for all types of duplicating gel. Strong and efficient mixing and cutting apparatus. Uniquely motorised from above makes processing safe and eases cleaning. The duplicating gel is mixed quickly and thoroughly including when the gel has already set, just a few of this machine's great advantages.

2.5 kg capacity is adequate for most laboratories' requirements and therefore saves energy. The quick but gentle heating and cooling of the material together with the highly precise temperature control provide economical use and a consistent working temperature. These features are the foundation for the subsequent excellent results.

094-782-00	1 piece
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#### Advantages:

- quick heating times due to the precise temperature control
- short cooling times due to a special cooling channel
- strong and efficient mixing apparatus
- mixing apparatus motorised from above the lid
- pot is easy to clean
- compact machine for 2.5 kg duplicating gel
- processing is gentle on material
- processing is also possible once the duplicating material has set
- low energy consumption
- exact temperature control
- easy to use

#### Technical data

Mains connection	230 V / 50/60 Hz
Power	700 W
Capacity	2.5 kg
Melting and cooling time	approx. 60 min
Melting temperature $T_m$	90 - 95°C / 194 - 203 °F
Working temperature $T_a$	45 - 55°C / 113 - 131 °F
Dimensions (W x H x D)	360 x 340 x 440 mm
Weight	18 kg



108-620-00	1 Set
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### Dublitop® micro Set

The electric mixer cools the molten duplicating material to working temperature in only 10 minutes.

A warning sounds once the working temperature has been attained. Mixes the duplicating material homogeneously.

#### Contents:

- 4 x 350 g Dublitop® micro
- 1 signal thermometer
- 1 mixer
- 1 cooling beaker
- 1 mixing lid

## Surveying equipment and accessories

### Paratherm – Surveying, blocking out and waxing unit

#### Advantages:

- flexible measuring movement with linearly guided sliding bars
- horizontal swiveling range of the two arms over the entire working area
- separate measuring and thermal blocking-out rods, vertically spring adjustable. All positions fully adjustable
- secure lockings
- thermal temperature can be regulated up to 140 °C/284 °F
- replaceable tips
- heavy, rigid construction
- instrument storage holder
- connection for electric wax knife and holder

#### Contents

- 1 Paratherm with surveying and blocking-out arm
- 1 Analyzing rod
- 1 Graphite holder
- 10 Replacement graphite markers
- 4 Undercut gauges  
0.25 / 0.35 / 0.5 / 0.75 mm
- 2 Thermal blocking-out instruments 0°, 2°
- 1 Plastic cover
- 1 Fuse
- 1 Instructions for use

**Please order model table separately (see page 250).**

#### Technical data

Mains connection, adjustable	110 / 230 / 240 V / 50/60 Hz
Power	22 W
Temperature blocking-out unit	can be regulated up to max. 140 °C/284 °F
Dimensions (W x H x D)	200 x 390 x 240 mm

094-270-00	1 piece
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### Paraline

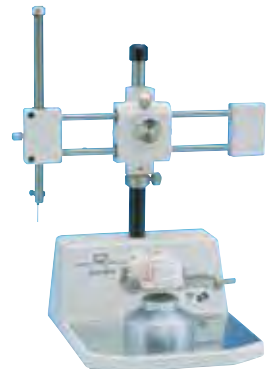
Surveyor (non-electric). Based on the Paratherm unit. No connection socket available for electric wax knife.

#### Contents

- 1 Paraline unit
- 1 Analyzing rod
- 1 Graphite holder
- 10 Replacement graphite markers
- 4 Undercut gauges  
0.25 / 0.35 / 0.5 / 0.75 mm
- 1 Plastic cover
- 1 Instructions for use

**Please order model table separately (see page 250).**

094-290-00	1 piece
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## Surveying equipment and accessories



094-287-00	1 piece
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### Analyzing rod



094-288-00	1 piece
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### Graphite holder



094-289-00	10 pieces
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### Replacement graphite markers



0.25 mm	094-283-00	1 piece
0.35 mm	094-284-00	1 piece
0.50 mm	094-285-00	1 piece
0.75 mm	094-286-00	1 piece

### Undercut gauges



0°	094-275-00	1 piece
1°	094-276-00	1 piece
2°	094-277-00	1 piece
3°	094-278-00	1 piece
4°	094-279-00	1 piece
6°	094-280-00	1 piece
8°	094-281-00	1 piece

### Thermal blocking-out instruments



094-272-00	1 piece
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### Electric wax knife

For connection to the Paratherm unit. The models to be blocked-out can be waxed directly on the unit. Adjustable temperature up to 240 °C / 464 °F. Anatomically shaped wax knife and modelling tips (REF 089-602-00 ... 089-606-00, see page 256).

**Contents:**  
Handpiece, cable, wax knife.



086-340-00	1 piece
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### Model table

Fully adjustable model holder, with easy and secure mounting of models. Large base, cast aluminum, clean and sturdy construction.

## Milling machine and accessories

### Paramil 3 – Milling machine

Universal milling machine for all applications in prosthetics with outstanding value for money.

094-220-00	1 piece
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#### Advantages:

- simplified milling in wax or metal
- precise hinged joint moves easily and can be locked in place when needed
- integrated pneumatic system represents an unique feature which allows the milling table to hover on an air cushion over the working surface if required
- built-in cooling ensures lubrication of the drill or of the milling surface
- the integrated motor can be regulated to run up to 27000 min<sup>-1</sup> in either clockwise or counterclockwise direction
- the motor as well as cooling of the milling area are conveniently controlled by a foot pedal
- integrated halogen lamp provides excellent lighting conditions

#### Contents:

Milling machine including motor and model table.



#### Technical data

Mains connection	230 V / 50 Hz
Output	100 W
No. of motor revolutions	1500 to 27000 min <sup>-1</sup>
Chuck size	ø 2.35 mm / ø 3 mm
Lamp connection	12 V / 5 W
Compressed air	3 to 4 bar
Weight	approx. 24 kg
Dimensions (W x H x D)	240 x 510 x 270 mm

### Milling oil

For Paramil 3.

094-222-00	54 g
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## Blasting units and accessories



230 V	<b>094-530-00</b>	1 piece
115 V	<b>094-531-00</b>	1 piece

CE

### Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Power consumption	30 W
Compressed air connection	0 - 10 bar
Air consumption	270 l/h at 10 bar, 150 l/h at 5 bar
Dimensions (W x H x D)	330 x 570 x 410 mm
Weight	15 kg

### Dentablast

#### robust blasting unit for all areas of dental technology

- for the quick and easy removal of investment material and oxides from cast objects
- for abrasive material with a grain size of up to 250 µm
- no risk of blockage
- external central extraction unit or extractor connection possible (accessories)



230 V	<b>094-540-00</b>	1 piece
115 V	<b>094-541-00</b>	1 piece

CE

### Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Power consumption	30 - 100 W
Compressed air connection	0 - 10 bar
Air consumption	136 - 160 l/h
Dimensions (W x H x D)	340 x 470 x 480 mm
Weight	24 kg

### Dentablast Duo

#### maintenance-free blasting unit with two abrasive material containers

- separately adjustable pressure for both abrasive material containers
- for abrasive material with a grain size up to 250 µm
- a selection of 3 different nozzles
- external central extraction unit or extractor connection possible (accessories)



<b>094-550-00</b>	1 piece
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### Extraction unit

For Dentablast Duo.

## Blasting units and accessories

### Blasting medium, white

#### 99,6% Aluminum oxide

Hard, multisides, wear-resistant particles for intense, fast cleaning action.

Dentaurum corundum satisfies the blasting medium requirements of the profession and national health and safety regulations.



#### Grain size 50 (44–74 µm)

Ceramic bonding alloys.

Removal of the oxide layer and investment.

Cleaning of crown interiors.

Removal of ceramics.

128-017-00	4.5 kg
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#### Grain size 100 (88–125 µm)

Surface preparation.

Prior to application of the opaque.

Cleaning.

128-020-00	4.5 kg
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#### Grain size 250 (210–297 µm)

Removal of investment and surface treatment before ceramic application.

128-016-00	10 kg
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#### Grain size 400 (354–500 µm)

Removal of investment for cast partial denture alloys.

128-015-00	10 kg
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### Blasting medium, brown

#### Corundum

Multifaceted for highest quality rapid cleaning of CoCr castings.



#### Grain size 250 (210–297 µm)

128-011-00	10 kg
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#### Grain size 500 (420–595 µm)

128-010-00	10 kg
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### Polishing beads

Hardened silicate beads for alloys.

Uniform hardness, high durability.

These polishing beads produce clean,

polished, contamination-free surfaces.

No metal removal.

Ultra-effective cleaning action.

128-211-00	4.5 kg
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#### Grain size 75 (50–105 µm)

Blast cleaning of crown interiors, attachments, connectors.



## Ceramic furnaces and accessories



### Ceramic furnace Austromat® D2

User can save 120 programs on 4 levels with freely programmable individual parameters and individual names. The menus allow you easily edit, save and copy programs by pressing a key. The automated self-check by the 32-bit electronics of the AUSTROMAT® D series.

230 V	<b>095-200-00</b>	1 piece
115 V	<b>095-200-01</b>	1 piece

#### Advantages:

- automatic self-test for temperature and vacuum
- changing the running program – The firing parameters can be changed with the press of a key
- check program – an automatic diagnosis routine is integrated
- AutoDry®: Simulates object temperature measurement and automatically regulates the distance from the firing chamber with the stepless, vibration-free lift for precise drying and cooling phases
- firing programs for all Dentauro ceramic systems are pre-programmed

#### Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Firing programs	120 free programs in 4 levels
Start- / preheating temperature	100 - 700 °C / 5 °C   212 - 1292 °F / 9 °F
Final- / firing temperature	500 - 1200 °C / 1 °C   932 - 2192 °F / 1.8 °F
Holding period with / without vacuum	00:00 min - 60:00 min*
Dimensions (H x W x D)	380 x 612 x 340 mm

\* < 3 min in steps of 10 seconds / > 3 min in steps of 30 second



### Ceramic furnace Austromat® D4

200 firing programs are available for individual programming. The integrated program manager allows clear and comfortable administration of the firing programs. The entire firing process with the firing number, program name and probable remaining time is displayed graphically or in a table on the colour screen. The automated self-check by the 32-bit electronics of the AUSTROMAT® D series ensures perfect firing monitoring and maximum reliability. The heating, holding or cooling phases preset in standard mode are freely programmable in professional mode.

230 V	<b>095-210-00</b>	1 piece
115 V	<b>095-210-01</b>	1 piece

#### Advantages:

- menu control including temper and cooling phases
- AutoDry®: Simulates object temperature measurement and automatically regulates the distance from the firing chamber with the stepless, vibration-free lift for precise drying and cooling phases
- set-up function for individual user adaption
- firing programs for all Dentauro ceramic systems are pre-programmed

#### Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Firing programs	200 Programmes individually programmable
Start- / preheating temperature	100 - 700 °C / 1 °C   212 - 1292 °F / 1.8 °F
Final- / firing temperature	100 - 1200 °C / 1 °C   212 - 2192 °F / 1.8 °F
Holding period with / without vacuum	00:00 min - 99:59 min / 00:01 min:s
Dimensions (H x W x D)	380 x 612 x 340 mm

## Ceramic furnaces and accessories

### Ceramic press furnace

#### Austromat® 3001 press-i-ident®

This ceramic press furnace allows you to program firing and pressing cycles in any sequence without time limits. The unrestricted program design enables you to create any possible firing technique.

The regulatable electromechanical advance of the innovative upward pressing system (UPS) requires no compressed air connection and opens up unique possibilities. For example, different colours (presently up to three) can be pressed in a muffle ring in a single step (muffle system not included in the delivery). The ceramic furnace is supplied with vacuum pump and tongs.

230 V	<b>095-220-00</b>	1 piece
115 V	<b>095-220-01</b>	1 piece



### Technical data

Mains connection	230 V or 115 V / 50/60 Hz
Firing programs	unrestricted program design
Pressure	10 - 300 N / 1 - 9
Active cooling when firing chamber is open and closed	100 - 1200 °C / 1 °C   212 - 2192 °F / 1.8 °F
Time-controlled temperature increase	1 - 99 °C / 1 °C/min   1.8 - 178.2 °F / 1.8 °F/min
Dimensions (H x W x D)	385 x 710 x 285 mm

### Firing tray with holders

<b>260-300-03</b>	1 piece
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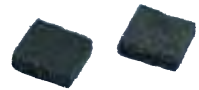
### Holders for firing tray

<b>260-300-13</b>	6 pieces
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### Carbon fibre chips

For purge of ceramic furnaces.

<b>260-317-00</b>	10 pieces
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## Electric wax knife



230 V	<b>089-620-00</b>	1 piece
115 V	<b>089-611-00</b>	1 piece

### Thermomat

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

#### Technical Data:

Voltage: 230 V~ / 50 Hz

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

Length of cable: 95 cm / 37"



<b>089-602-00</b>	1 piece
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### Modelling knife, small



<b>089-603-00</b>	1 piece
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### Thomas modelling point, fine



<b>089-604-00</b>	1 piece
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### Thomas modelling point, medium



<b>089-605-00</b>	1 piece
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### Orthodontic wax knife



<b>089-606-00</b>	1 piece
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### Modelling spatula



<b>089-612-00</b>	1 piece
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### Handpiece/cable

With cable, without instruments.

## Model trimmer and accessories

### Dual wheel model trimmer

For plaster models.

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

<b>091-100-00</b>	1 piece
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#### Technical data

Mains connection	230 V / 50/60 Hz
Output	2 x 450 W
Weight	39 kg
Dimensions (W x H x D)	510 x 390 x 400 mm
Color	Front grey, Back blue

### Corundum disc, coarse

For Dentaureum Dual wheel model trimmer  
REF 091-100-00.

<b>091-101-00</b>	1 piece
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### Corundum disc, fine

For Dentaureum Dual wheel model trimmer  
REF 091-100-00.

<b>091-102-00</b>	1 piece
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### Diamond disc, coarse

For Dentaureum Dual wheel model trimmer  
REF 091-100-00.

<b>091-105-00</b>	1 piece
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## Preheating oven



### Protherm – Preheating Oven with Circulating Air

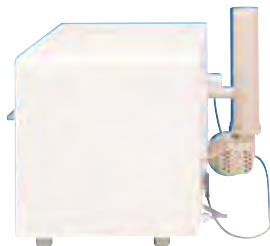
LCD display. Modern keypad. Microprocessor program control. Maximum of 4 heating stages per program. Capable of storing 98 different preheating programs. Audible end-of-program reminder. Error display. Luminous display of all data. 40% energy savings due to extra thick insulation and stainless steel housing. Digital display in German, English, French and Italian. Outlet for optional exhaust fan or catalytic wax vapor remover. Four sided heating. Delayed start feature. Pt Rh-Pt-thermocouple.

096-180-00	1 piece
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Casting of corrosion resistant metal.  
Ceramic insulation.  
Connection for catalyst and fume extractor.  
Noise suppressor.  
VDE standard.

#### Technical data

Muffle capacity (muffle $\varnothing$ 80 mm)	6
Oven chamber dimensions (W x H x D)	200 x 110 x 250 mm
External dimensions (W x H x D)	480 x 580 x 590 mm
Mains connection	230 V / 50 Hz
Output	2300 W
with circulation	2600 W
Current uptake	10.6 A
with circulation	11.8 A
Electric fuse	16 A
Max. temperature	1100 °C / 2012 °F
Weight	80 kg



096-015-00	1 piece
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### Fume extractor

Prevents damage to heating elements by extracting combustible gases from furnace. Suitable for all Dentaurum furnaces.

#### Technical data

Mains connection	230 V / 50 Hz
Power consumption	28 W
Pumping capacity	80 m <sup>3</sup> /h
Additional depth when fitted to furnace	170 mm

## Pressure vessel and suction unit

### Polyclav®

Polymerization pressure vessel for the orthodontic acrylic technique.

**Pressure hose not included.**

With safety valve.

**Capacity: 4 litres**

070-000-00	1 piece
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### Heating Plate

For Polyclav® REF 070-000-00.

Thermostatically controlled at 43 °C / 109 °F.

230 V~ / 50 Hz / 125 W

**Color: RAL 9001 cream white**

070-900-00	1 piece
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### Pressure Hose for Polyclav®

For Polyclav® REF 070-000-00.

Length: 2 m

Includes plug nipple to fit inlet valve and standardised connection for compressed air sockets.

070-700-00	1 piece
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### 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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## Miscellaneous



090-142-00	1 piece
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### Polaroid sheet film

For X-Control.

**Contents:**  
20 films



090-145-00	1 piece
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### X-Ray stepped wedge

For adjustment of suitable exposure time.



097-400-01	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 certified.**

**Technical data:**

Weight: 180 g / 6 1/3 oz.

Full capacity of the butane tank: 64 ml

Maximum temperature: 1300 °C / 2372 °F

**Dimensions: 105 x 142 mm / 4" x 5 1/2"**  
**(W x H)**

