



 **POLARIS**
Polaris is a leading provider of dental services.

 **Global Operations**
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POLARIS INC.

Dental Equipment **ac**

GC, Dental Equipment

POLARIS

Finds the Way...

CONTENT

02- 17		Dental Furnaces
<hr/>		
18- 23		Dental Benches
<hr/>		
24- 29		Sterilizer
<hr/>		
30- 45		Others
<hr/>		
46		About the COMPANY
<hr/>		

FURNACES





Auto Therm 300 Pro



Features

Filing chamber temperature fluctuates
 narrow for stability up to 1000 degrees
 of temperature

Type 9 Thermocouple with the
 temperature accuracy ±1.0°C,
 Spiral quartz filing muffle zone in
 vacuum pump with pressure less than
 1mmHg.

100cc volume of the muffle chamber,
 Regulating the vacuum level with the
 muffle chamber from 1 to 10mm,
 General protection filing with dual stage
 heating rate.

Selected number of programs,
 Touch TFT LCD screen.

Disconnecting parts of shell and tube for
 update and remote debugging.
 Pre-arranged filing programs with the
 commonly used procedures around the
 world, use friendly.

Electrical connection:

220V

50 Hz

2000W

Auto Therm 300/400

Fully Automatic Processable Formant

The application of this product is to process and prepare casting cylinders for alloy forms of aluminum and magnesium. Also, this formant is used to process many perforated casting cylinders.



Features

Over 1000 pre-set filling programs for all available capacities & allows in the market with the ability to define fill rate programs

Automated start by program activated in non-working time

Pre-warming program for reducing excessive thermal stress

Post-warming program for saving time
 100%L, 50%L, 10%L* sub programs to initial set up save time and improve product lifetime

Protein temperature sensor (Protein Protein Thermocouple)

Advanced processing system for automatic programs control
 graphical and digital LCD to display process information

Spinal muffle covered by quartz heater to create & distribute maximum heat
 High quality oil free vacuum pump
 Automatic thermal and vacuum calibration program

Auto signals at the beginning and end of the program

First warning system during entering incorrect values for temperature, time and vacuum level

Intelligent alarm system to warn software/hardware error

High accuracy in performance at low and high temperature

Using vertical lift to move assembly to achieve a minimum amount of noise and vibration

Technical Data

Dimensions: 49 cm width x 46 cm depth x 64 cm height

Maximum temperature: 200°C (optional)

Net weight: 20.5kg

Maximum power consumption: 1000W
 Power supply: 220V, 50Hz/60Hz

Equipped with a vacuum pump with a power of 200 W and compatible with 200 V AC power with vacuum

vacuum capability up to 200 mbar

Auto Therm 300 Plus **Fully Automatic Porcelain Furnace**

The application of this product is to pre-heat and prepare casting cylinders for alloy bases of chromocobalt and porcelain-like, this furnace is used to pre-heatling partial therm casting cylinders.



Features

With defined filling programs for all available varieties it adapts to the market and flexibility to define fill and programs

Automatic start by program activated in the working time

Pre-warm program for reducing varieties thermal shock

Fast cooling program for saving time
 100% Liquid fill sub-program for initial set up, save time and improve product life time

Positive temperature sensor (Positive Pressure Thermocouple)

Advanced processing system for automatic programs control
 Graphical and digital field to display process information

Spinal shafts covered by Quartz heater to maintain distribute moisture heat
 High quality silicon vacuum pump

Automatic thermal and vacuum calibration program

Double signals at the beginning and end of the program

Linear warning system during entering incorrect values for temperature, time and vacuum level

Intelligent alarm system to warn software/hardware error

High accuracy in performance at low and high temperature

Using vertical fill to reduce viscosity to achieve a minimum amount of noise and vibration

Technical Data

Dimensions 17 cm width x 18 cm depth x 16 cm height

Maximum temperature 100°C (water 75)

Net Weight 20.8 kg

Maximum power consumption 1000W
 Power supply 220V 50/60 Hz

Equipped with a vacuum pump with a power of 10W W and compatible with 220V AC power with vacuum

vacuum capability up to 200 mbar

Auto Sinter 1650L Zirconia Sintering Furnace

Auto Sinter 1650L is a new advancement in zirconia sintering with special application in dentistry to sinter zirconium frame blocks or blocks which are called by CAD/CAM systems.



Features

Equipped with six static thermal elements in order to create and distribute steady heat

Knowing different full capacity profiles based on commercially available circulation

Capable of programming to define the start and the finish time daily and weekly

Probe temperature sensor (Platinum Platinum Thermocouple type B)

Advanced processing system for automatic program control

Analogical and digital unit to display process information

Intelligent alarm system to warn software/hardware errors

Using vertical lift to move smoothly to achieve a minimum amount of noise and vibration

Resistive Parts (because of collection of parts to function at 200°C)

Quiet installation & ease of operation
High functional precision

Technical Data

Dimensions of unit with a three depth: 1.00 m in height.

Maximum temperature control (power P):
1000W/100kg

Maximum power consumption (control):
Power supply: 220V/50Hz

Equipped with a vacuum pump with a power of 200W and compatible with 200 total power with vacuum creation capability up to 1000 mbar

SunnyTherm

The application of this product is to pre-cure and prepare casting cylinders for alloy frames of chrome-cobalt and porcelain. Also, this furnace is used to pre-curing partial frame casting cylinders.



Features

Following heating and allowing for stress relief, rapid chromium precipitation cylinders and other particles and non-precipitate alloys.

Containing 10 functional programs to change all parameters (programmable temperature with three distinct stages (time, temperature and temperature increase rate)

ideal case with high capacity for setting 4 cylinders with weight of 100 g

Heating rate: 100°C/hour

LED for displaying all parameters

Microcontroller for precise & real-time control

Intelligent alarm system to warn software/hardware errors. Precision thermal sensor (thermocouple type K)

Quick installation & easy operation

Using the best ceramic fiber thermal insulators.

Using the best thermal elements with high stability.

Technical Data

Dimensions: 48 cm (width) x 48 cm (depth) x 48 cm (height)

Chamber Dimensions: 48 cm (width) x 48 cm (depth) x 48 cm (height)

Chamber capacity: 4 cylinders

Maximum temperature: 1000°C (1900°F)

Maximum power consumption: 1000W

Weight: 20 kg

Power supply: 220V/230V/240V/50/60 Hz

Auto Therm 30SP VPF Fully Automatic Press & Porcelain furnace

Now offered by the fully certified and engineering team at Pöchlert has built the design and manufacture of one of the most important dental laboratories devices.

All 30SP VPF press and porcelain furnace performs pressing (injecting) full ceramic furnace in addition to the capabilities of all Pöchlert All this application of this product is full automatic and this device is compatible with all the commercially available press inputs.



Features

Equipped with the latest applicable technology for all the commercially available press types with pressure firing capability. It covers and encompasses all defined firing programs for all available models & sizes in the market and the ability to define set new programs.

Equipped with the capability of defining multiple firing programs (including crystal firing).

Automatic stand by program activated in non-working time.

Pre vacuum program for reducing excessive thermal shock.

Fast cooling program for saving time.

Predefined 'soft' sub programs to initial set up, save time and improve product life time.

Fast cooling program for saving time.

Predefined 'soft' sub programs to initial set up, save time and improve product life time.

Positive temperature sensor (Rohm's Platinum Thermocouple).

Advanced processing system for automatic programs control.

Graphical and digital LCD to display process information.

Optimizable covered by liquid heater to create & distribute maximum heat.

High quality oil free vacuum pump.

Automatic thermal and vacuum calibration program.

Audio signals at the beginning and end of the program.

Technical Data

Dimensions: 37 cm width x 16 cm depth x 66 cm height.

Maximum temperature: 1000°C (1800°F).

Net Weight: 20 kg.

Maximum power consumption: 1000 W.

Power supply: 220-240 V - 50/60 Hz.

Equipped with a vacuum pump with a power of 100 W and compatible with crystal oil pump with vacuum creation capability up to 1000 mbar.

Auto Therm 300P Pro VPF Fully Automatic Press & Porcelain furnace

Calculations by the R&D technical and engineering teams at Potech has led to design and manufacture of one of the most important dental laboratory devices. A 300P VPF press and porcelain furnace performing pressing (injecting)/infiltration/pressing in addition to the capabilities of all 100 and all 1000. Application of the product is full automatic and this device is compatible with all the commercially available press logos.



Features

Equipment with the latest applicable technology for all the commercially available gross ligers with parallel firing capability in vacuum and atmosphere and deflashing programs for all available ceramic & alloys in the market and the ability to follow all new programs.

Equipment with the capability of stacking multiple firing programs (including repeat firing).

Automatic start by program initiated in run-waiting time.

Pre-vacuum program for reducing ceramic thermal shock.

Fast cooling program for castings in ceramic shell and other sub programs to reduce set up, save time and improve product life time.

Process temperature sensor (Fusion, Platinum Thermocouple).

Advanced processing system for automatic programs control.

Graphical and digital read to display process information.

Spinel muffle covered by Quartz heater to ensure & distribute maximum heat.

High quality vacuum vacuum pump.

Automatic thermal and vacuum calibration program.

Audio signals at the beginning and end of the program.

Technical Data

Dimensions: 67 cm width x 116 cm depth x 113 cm height.

Maximum temperature: 1800°C (program).

Net Weight: 20 kg.

Maximum gross capacity: 1000 g.

Power supply: 220V/50Hz, 1-Phase/10A.

Equipment with a vacuum pump with a power of 1000 W and compatible with 2000 W oil pump with vacuum creation capability up to -0.095 mbar.

BENCHES





General Box:

General Box is an integrated unit which includes a microscope for testing, control, or X-ray, protection shield and etc. Easy and safe dental operation with personal and environmental hygiene will be accomplished by using this product.



Features

Two built-in microscope systems, controllable with two separate adjust mechanisms & counter-clockwise rotation

Strong air resistance microscope stands

Surfactant system to collect suspended particles & dust

Automatic work-off surfactant system controlling microscope

Monitor stands with ability to adjust height

Infusion drawer with plastic container (50µl)

Protective shields enhance safety & have whether visibility

Electrical techniques with low output/voltage

Air pollution work stand

The possibility to install either MP1 microscope with allow control

Programmable intelligent system and screen display to control and display parameters (microscope rotational speed, light intensity) in a modular package

Technical Data

Dimensions: 60 cm (width) x 60 cm

(depth) x 100 cm (height)

Power input of dust-extraction system:

200 W

Operating voltage: 220 V AC 50/60 Hz

Microscope: digital video

stand, either MP1

Air pressure: 0.1 bar

Dental Simulation Bench



Features

Built-in microscope system, adjustable foot pedal, adjustable speed, clockwise & counter-clockwise rotation

Strongest handle to clean the chair

Rotation system to collect suspended particles & dust

Particle collection bags with filtering system

Automatic on & off rotation system controlled by microphone

Standard fluorescent lights with adjustable light intensity

Adjustable stands with ability to adjust height

Foot & easy selection and replacement of table stands according to working environment

Heat resistant, anti-scratch & antibacterial surface (made from composite stone or MDF)

Soft (padding) for purpose of placing the necessary instruments

Presence of safety cables to enhance safety

Three separated drawers and two under-seat drawers with plastic container (bag)

Internal gas, air & water connections

Removable flange with internal gas connections

Electrical techniques with heat coupling socket

The possibility to install optional IPAD microscope with glass control

Technical Data

Dimensions: 60 cm (width) x 100 cm (depth) x 100-120 cm (height)

Power input of dust extraction system: 1000 W

Operating voltage: 220-230 V 50/60 Hz

Microscope angular velocity: 18000 RPM (IPAD)

Air pressure: 0.1 bar

STERILIZER





Elite Premium B18 Dental Autoclave Type B

Dental Autoclave class B is the new generation of sterilizer family which uses steam pressure and vacuum environment technology and offers user applications and accuracy of performance assurance. The functional programs according to global standards together with advanced hardware equipment, offers sterilizing capability to the product for all kinds of surgical devices (metal and stainless steel-man-made), clinical clothing and garments, operating room instruments and dental. According to high importance and sensitivity of this product, in addition to considering international standards in designing and producing, manufacturing process of this product has been in accordance with European standards of CE, EN 60601 and ISO 13485.



Features

Process evaluation system

Mechanical (pulsy valve) and electrical (with feedback from process sensor) pressure controller in order to provide maximum functional safety
Water level controller and alarm system

Flexibility programmed test user adjustable programs

High performance calibration system

Remote loading door system

Integrate thousands made from various steel

Input & output values in real time at device

Installed printer to print accomplished calibration process

Timer and time register to extract all kind of time information from the entire calibration process

Safety valves to reach maximum operational security

Wide display by easy operation

Technical Data

Dimensions (L×W×H)(mm)(Depth)(mm)(Height)

Boiler Temperature (°C) (100°)

Chamber Volume (L) (10)

Net Weight (kg)

Maximum Consumption Power (kW) (1)

Power supply (V) (200V/50/60Hz)

Steam Cleaner:

Steam Cleaning is a prudent and effective method to clean dental models, prosthetic and tools, removing scaling operation and residual wax in dental and dentistry. Steam Cleaner of Polaris with easy and safety operation has been manufactured to fulfil maximum requirements of dental and dentistry.



Features

Windows selection of different surfaces for mobile and remote (flexible) frames

Cleaning different surfaces at different times

Steam adjusting output according to the current consumption

Free tips for multiple consumption zones

Water amount electronic controller

Water amount alert system

Portable and fixed models

Fully metallic frame used for strengthening and enhancement of product life purposes

Steam storage device for standby status

Safety valves to reach maximum operational security

Fast cycle

Technical Data

Dimensions: 46 cm (width) x 46 cm (depth) x 66 cm (height)

Maximum output steam pressure: 8 bar

Net weight: 16 kg

Maximum power input: 1000 W

Power supply: 220V and 50/60Hz AC

Water storage volume: 3 liters



OTHER



EASY CAST

Induction Casting Machine is offered to dental laboratories. Function of this device is based on induction melting technology which makes the process and safe casting operation with all common alloys in dentistry (except titanium) possible. One of the most significant characteristics of this product is using argon gas for protection from alloy oxidation.



Features

Coating for all positions & non-profile alloys (except titanium)

Highest Profile without any changes in work dimensions

100 percent security (the end of risks resulting from traditional form of casting, oxidation of gas escape and air)

Possibility of using Argon gas to maximally minimize oxidation (complete deletion of oxidation and porosity)

Time saving (in comparison to traditional casting method)

Essential: Low alloy consumption

No need to balance and adjust

Low thermal

Digital control system to prevent user faults

Melting alloy temperature sensor

Water flow sensor

IFT touch table to work

Connecting parts of USB and WiFi for updates and remote debugging

Ability to convert the Argon gas, it reduces process oxidation of melting alloy

Auto MIX (Fully Automatic)

This device is used in dental laboratories in order to mix materials (plasters used in dentistry) and also to uniform and remove air bubbles.



Features

Microprocessor process control system

Internal oilless vacuum pump

Wide speed limit & program adjustment limits

Digital indicator in order to display vacuum surface with adjustment capability

The possibility to change the parameter & operation

Maximum rotation volume enhances functional safety

Shutdown alarm system

The possibility to modify and change functional programs

Easy consumable parts replacement

Easy usage and installation

Light-weighted & portable

Technical Data

a Technical specifications: 141 mm (width) x 141 mm

(depth) x 141 mm (height)

Weight: 1.1 kg

Maximum power input: 100 W

Operating voltage: 220V/230V/240V AC/50Hz

Minimum angular velocity: 1000 RPM

Maximum amount of vacuum: 0.15 mbar

Container volume: 1000 and 100 ml

Pindex:

Pindex drilling unit with laser pointing system for precise metal drilling required by the removable prosthesis adjustable drilling depth.



Features

Adjustable drilling depth

Stable, Rigid, Balanced Design: Designed for High precision
User Friendly Intelligent User Optimized Performance

Contains Powerful and Reliable motor

Advanced and reliable gear train system

Safety operated by using mechanical and electronic protection
equipment

Technical Data

Dimensions: 261 mm (width) x 261 mm (depth) x 200 mm

(height) Technical data Maximum power input 2000 W

Drill to steel 10mm from electric plate for drill that

weight 10 kg

Power supply 220V-240V/50Hz

Features

Equipped with an industrial processor to automatically control program.

Equipped with Program termination alarm.

Alarm system for faulty user operation.

Provides thermal sensor to measure the muffle temperature indicator to display muffle temperature.

Made of high quality cast iron, no facilities existing in ceramic injection & operation.

Technical Data

Dimensions: 400 mm (width) x 400 mm (depth) x 400 mm (height)

Weight: 20.0 kg

Power Input: 1000 W

Operating voltage: 220V 50/60 Hz/10 A

Flexoplast:

Flexoplast is an advanced system for injecting thermoplastic material with blowmoulding technology to build single non-cyclic profiles (blowcast). Easy profiles and elegant production operation is result of Flexoplast using.



Features

Equipped with two tapered needle needles with high durability

Two seal chambers

Ability to work with both 10.5% air to 100% air levels (in two separate chambers)

Multiple pipe for connecting nozzles

Low energy consuming by LED light system

Equipped with regulator to adjust inflation pressure

Equipped with pressure gauge to prompt display functional pressure with high precision

Flexible chamber to enhance operation/hygiene

Fast & easy installation and function

Stylish and beautiful design

High precision performance

User friendly

Technical Data

Dimensions: 100 mm (width) x 100 mm (depth) x 100 mm

(height)

Weight: 1 kg

Functional pressure: 1.2 Bar

Chamber capacity: 1 liter

Power supply: 220V AC 50/60 Hz

Fine Blast (Dual Tank Sandblast)

One of the important steps of this device is stability laboratories is evaluating critical plates after testing steps, surface cleaning and producing mechanical finishing in cases such as final frames, partial full cavities, glass cavities, and Poliqua. Using this device leads to prevention of powder and abrasives scattering in the work environment and high work precision is obtained with desired abrasive particles in the two separate reservoirs. Substrate of two handpieces with tapered nozzle makes easier and less makes which gives hand-piece selection possibility and high-speed operation to the user.



Features

Equipped with one magnetic needle sensor with high accuracy

Sturdy structure with loads 10,000 gms to 100,000 gms capacity

Equipped with regulator to adjust/normalize pressure

Equipped with pressure gauge to pressure display functional pressure with high precision

Light weight and portable design

Technical Data

Dimensions: 10 cm (width) x 10 cm (depth) x 10 cm

(height)

Weight: 4.5 Kg

Functional pressure: 0.4 Bar

Load Chamber Capacity: 1 liter

Mobile Blast Single Tank Sandblast (Portable)

This device has only one reservoir (blast chamber) of Mobile Blast. Unlike split use, easy transportation & high availability in field laboratories.



Vibrator:

The application of vibrator in industry is preparing uniform granules in dental field, vibrator is used to create uniform surface in plaster, all kinds of casting and molding materials and air bubble removal. Vibration adjustment and easy operation are considered as variable characteristics of this product.



Features

• Uniform long life vibration system

• Vibration level adjustment system

• An ideal product for calibration of facilities from plants
• Applicable in other industries for a similar application for
other products

• Light weight & portable along with easy change

Technical Data

• Dimensions: 18 cm (width) x 18 cm (depth) x 18 cm
(height)

• Net weight: 11kg

• Maximum power input: 100 W

• Power supply: 220-240 V AC 50 Hz

About the Company

Prüfer GmbH started its product line of manufacturing medical equipment in hospital building in 1986 with the aim of serving the health department. This company is active in building in full field and with the aim of technology development to design, manufacture and produce the equipment and supplies related to health industry. It operates constant activity under the supervision of the scientific management and group cooperation of internal experts who are the main investments of this company has built the products with the highest quality and the most competitive price in comparison with other original brands in the world, so to be used by consumers. The principle of being technology-oriented and synchronized with the world's science and technology of the day is arising from the close cooperation of this company with the universities and clinics or foreign scientific and research centers. The result of these activities enables steady development in the volume and quality of PrüferGmbH. Being the source of our company is based on customer interaction, understanding their needs and fulfilling their demands whose satisfaction is indeed the encouragement for the growth and will to reach the company's high goals with manufacturing high-quality goods which meet the demands and international standards, the special surgery, Gynecology, obstetrics, gynecology and different types of simple hospital beds by contributing to large academic projects and equipping health centers by producing these goods, this company is serving the health department of the country.

