CAD/CAM
Solution For Dental Labs

Final Result
Scan with CAD
Sintering Furnace
Milling
AutoScan DS-EX with Exocad Software

The AutoScan-DS-EX is specifically developed for the dental market. It adopts the latest structured light scanning technology to provide accurate and efficient solution for those who focus on pro-ductivity and cost-effectiveness.

AutoScan-DS-EX is an unexpectedly cost-effective option for the dental market. This brand new 3D dental scanner will amaze the dental world with its unmatched small footprint and unprecedented light-weight. This will make it the ideal scanning solution for any dental service bureau and labs with restricted space.

<table>
<thead>
<tr>
<th>Model</th>
<th>AutoScan-DS-EX</th>
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<tbody>
<tr>
<td>Camera resolution</td>
<td>1,300,000</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; 15 µm</td>
</tr>
<tr>
<td>Scanning Range</td>
<td>100 mm<em>100 mm</em>75 mm</td>
</tr>
<tr>
<td>Scanning Time</td>
<td>Bite: 18 s, Upper/Lower Jaw: 42 s; 1-8 dies: 42 s, Impression: 90 s</td>
</tr>
<tr>
<td>Scanning Principle</td>
<td>Structured Light 3D Scanning</td>
</tr>
<tr>
<td>Temperature</td>
<td>10 °C to 30 °C (higher temperature will affect the scanning result)</td>
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<tr>
<td>Power</td>
<td>AC 24 V</td>
</tr>
<tr>
<td>Dimension</td>
<td>260 mm * 270 mm * 420 mm</td>
</tr>
<tr>
<td>Output Format</td>
<td>STL, OBJ</td>
</tr>
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</table>

exocad © DentalCAD is the leading OEM branded dental CAD software: great for beginners, yet powerful in the hands of an expert.

Already the standard version, exocad © DentalCAD covers a wide variety of indications:
- Anatomic crowns
- Anatomic copings
- Simple copings
- Bridge frameworks
- Inlays
- Onlaysia
- Veneers

Other Models:

- AutoScan-DS100+
- AutoScan-DS200+
- AutoScan-DS300
X-mill 220 is a four-axis joint dental carving and milling machine, Integrated design, so that the work area Simplify; dry processing, particularly open hair control system, with X-soform operation denture supporting platform; horizontal design, the key control section adopts imported original quality, screw, guide rails and other components maintenance-free design, reduce equipment maintenance professional troubles. High-speed, high-precision processing.

### X-MILL 220 four-axis Dry Milling

- Sample Wax for testing
- Operation Manual
- Hyperdent Software
- 30L Water Tank
- Vacuum (Optional)

<table>
<thead>
<tr>
<th>Name</th>
<th>X-MILL 220 milling machine</th>
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<tbody>
<tr>
<td>Dimension</td>
<td>640 * 560 * 520mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Appx. 150kg</td>
</tr>
<tr>
<td>Input voltage</td>
<td>single-phase AC 220V 50/60Hz</td>
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<tr>
<td>Maximum power</td>
<td>2.0KW</td>
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<tr>
<td>Spindle power</td>
<td>1.5KW</td>
</tr>
<tr>
<td>Number of machining axes</td>
<td>4 axes</td>
</tr>
<tr>
<td>Milling range</td>
<td>XYZ: 125/130 / 80mm A: 360’</td>
</tr>
<tr>
<td>Milling methods</td>
<td>dry Milling</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>36,000 rpm</td>
</tr>
<tr>
<td>Maximum feed rate</td>
<td>6000 mm/min</td>
</tr>
<tr>
<td>Processing materials</td>
<td>zirconia, wax, PMMA, soft metal</td>
</tr>
<tr>
<td>Bur Changing</td>
<td>Automatic</td>
</tr>
<tr>
<td>Bur capacity</td>
<td>3</td>
</tr>
<tr>
<td>Average processing time</td>
<td>zirconia: 8min wax: 3min</td>
</tr>
<tr>
<td>Spindle cooling</td>
<td>water cooling</td>
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</table>

**Other Models:**

- **X-MILL 300** four-axis Wet/Dry Milling
- **X-MILL 500** five-axis Dry Milling
High-Temperature Furnaces with SiC Rod Heating for Sintering Zirconia up to 1550 °C

- Tmax 1550 °C
- Working temperature 1500 °C, increased wear and tear must be expected in case of working at higher temperatures.
- Furnace chamber lined with first-class, long-life fiber material, unclassified.
- Housing made of sheets of textured stainless steel.
- Single-phase connection.
- Dual shell housing for low external temperatures and high stability.
- Easy replacement of heating rods.
- Adjustable air inlet opening, exhaust air opening in the roof.

<table>
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<tr>
<th>Model</th>
<th>Tmax</th>
<th>Inner dimensions in mm</th>
<th>Volume</th>
<th>Maximum</th>
<th>Outer dimensions in mm</th>
<th>Connected Electrical</th>
<th>Weight</th>
<th>Minutes</th>
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<td>HTCT 01/16</td>
<td>1550</td>
<td>110 120 120</td>
<td>1.5</td>
<td>45</td>
<td>340 300</td>
<td>3.5 1-phase</td>
<td>18</td>
<td>40</td>
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</table>
**Double Vacuum Operation** – Special firing program which enables two vacuum steps operation, specially designed with Obsidian in mind, also perfect for E-Cad blocks sintering.

**Crystallization** – 5 unique programs designed exclusively for crystallization of lithium disilicate and glass ceramic.

**Tempering Over Zirconia** – Slow cooling enables expansion and retraction according to different coefficient between ceramics, metals and Zirconia thus perform tempering over Zirconia or metal.

**Auto Vacuum Calibration** – This precise feature assures accurate translucency and vitality to your restorations. No matter altitude of lab is no more an issue.

**Small Footprint** – Minimal footprint and lightweight design are perfect for space tight laboratory.

**4 Fully Programmable Drying Steps** – Comply with every type of ceramic and mixing liquid.

---

<table>
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<tr>
<th></th>
<th>Focus 4010</th>
<th>Focus 4010 HT</th>
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<td>Max. Temperature</td>
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<td>1200°C</td>
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<td>Max. firing Temperature</td>
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<td>1180°C</td>
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<td>1 to 120°C</td>
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<td>185 /15</td>
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<td>Acoustic signal</td>
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<td>✔</td>
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<tr>
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<td>13.5 kg</td>
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<tr>
<td>Width x Height x Depth (cm)</td>
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<td>23x57x24</td>
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<td>✔</td>
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<td>✔</td>
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<td>100v 50/60Hz, 15amp</td>
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<td>230v 50/60Hz, 8amp</td>
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<td>3-year warranty</td>
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</table>
Laboratory Products

Zirconia Block

Made From 100% TOSOH Material

High Translucency (HT)

- Advantages
  - High translucency
  - Absolute bio-compatibility
  - Complete versatility

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<th>PROPERTY</th>
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<tr>
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<tr>
<td>Density</td>
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<td>Flexural Strength</td>
<td>1200MPa</td>
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<td>Radioactivity</td>
<td>0.019Bq/g</td>
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<tr>
<td>Light Translucency</td>
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Sintering Charts

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<tr>
<th>STEP</th>
<th>START TEMPERATURE (°C)</th>
<th>END TEMPERATURE (°C)</th>
<th>TIME (MIN)</th>
<th>RATE OF CLIMB (°C/MIN)</th>
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<tr>
<td>Step 1</td>
<td>0</td>
<td>300</td>
<td>30</td>
<td>10</td>
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<tr>
<td>Step 2</td>
<td>300</td>
<td>1000</td>
<td>40</td>
<td>17.5</td>
</tr>
<tr>
<td>Step 3</td>
<td>1000</td>
<td>1450</td>
<td>112.5</td>
<td>4</td>
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<tr>
<td>Step 4</td>
<td>1450</td>
<td>1450</td>
<td>120</td>
<td>Holding</td>
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<tr>
<td>Step 5</td>
<td>1450</td>
<td>700</td>
<td>60</td>
<td>12.5</td>
</tr>
<tr>
<td>Step 6</td>
<td>700</td>
<td>Room temperature</td>
<td>Cool naturally</td>
<td>——</td>
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</table>

Cautions in Restoration Fabrication

When detaching the milled crown or bridge from the disc, to avoid fractures in the restoration, please caution that the rotation speed of the handpiece should be no more than 10,000 rev/min.

- When refining the fossa of premolars and molars, to avoid fractures in the restoration, make sure the fissure bur is sharp enough.
- After refining and before coloring procedure, use brush to clean the dust inner and outer surface of the restoration.
Super Translucency (ST)

- **Advantages**
  - Superior translucency
  - Aesthetic function
  - Lifelike translucent appearance

- **Property**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>DATA</th>
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</thead>
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<tr>
<td>Green Density</td>
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<td>Radioactivity</td>
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Pre-shaded High Translucency (PHT)

- **Advantages**
  - High translucency Simplify the fabrication of restoration
  - 16 A-D shades available

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<td>Radioactivity</td>
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<td>Light Translucency</td>
<td>34%</td>
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Painting Liquid

- 16 A-D shades, easy to choose and meet varied demands:
  - Natural color reproduction
  - Simple operation
  - 20ml/ bottle
## Zirconia Block

### Product Compatibility

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>DIMENSION</th>
<th>PACK</th>
<th>SHADE</th>
<th>AT</th>
<th>HT</th>
<th>HS</th>
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<td>OPEN SYSTEM</td>
<td>Φ98 x 10(mm)</td>
<td>1 DISC/PACK</td>
<td>WHITE/16 A-D</td>
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<tr>
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<td>Φ98 x 12(mm)</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>65 x 40 x 22(mm)</td>
<td>1 DISC/PACK</td>
<td>WHITE/16 A-D</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>85 x 40 x 22(mm)</td>
<td>1 DISC/PACK</td>
<td>WHITE/16 A-D</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

“...” is pending. Pls. consult with your sales person for more information.
A new generation of metal-bonded porcelain developed to reproduce natural life-like aesthetics with a simple two layered build-up technique.

Vintage MP features a unique leucite reinforced crystalline structure with colour pigments that have a protective ‘glass coating’ that assures the colour brilliance.

It is compatible with all conventional high fusing PFM alloys with CTE ranging from 13.6 to 15.2 x 10^{-6} K^{-1}.

Available in:
Sets and refills of Powder 50 gm / Paste Opaque 5gm
Liquid 50 ml / 500 ml

<table>
<thead>
<tr>
<th>Refills: Vintage MP Standard Shades</th>
<th>5gm</th>
<th>15gm</th>
<th>50gm</th>
<th>200gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Opaque</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opaque Dentin: OD A1, OD A2, OD A3, OD A3.5, OD A4, OD B2, OD B3, OD C2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vintage MP Opaque Liquid: 3ml</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vintage Mixing Liquid: 50ml</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Vintage Halo Porcelain**

*Metal-bonded porcelain system*

- Unique two-frit glass matrix
- Easy for simple two to three powder build-ups and more complex multi-powder restorations
- Low shrinkage
- Resistance to cracking and steam tears
- Economical firing

Best aesthetic results are achieved when temperature display is calibrated to correct firing temperature in firing chamber. Furnace temperature can be checked with fine gold. Fine gold melts at 1064°C. For less shrinkage always use Shofu’s original modeling liquid.

**Available in:**
Set and refills of powder 50 gm / 200 gm; Liquid 50 ml/ 500ml

**VINTAGE MIXING LIQUID-HC**

A liquid specially designed for mixing body or enamel powders of the Vintage porcelain systems that provides superior handling in a thicker consistency and retains moisture to enhance shape stability during build up.

It can be used on its own or mixed with distilled water to achieve the desired consistency.

**Packaging**
Bottle of 50ml / 500ml

<table>
<thead>
<tr>
<th>Refills: Vintage Halo A &amp; B Shades</th>
<th>15gm</th>
<th>50gm</th>
<th>200gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>C4B, D2B, D3B, D4B</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>Incisal:</strong> 57, 58, 59, 60</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>Opal Enamel:</strong> 57, 58, 59, 60, T, Superlucent</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>Translucent:</strong> T, T-Glass</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
Fluorescent porcelain stains for internal and external modifications

The ready-to-use Vintage Art paste stains impress with their micro-fine particle structure and ideal consistency. They exhibit excellent application properties and achieve outstanding coverage.

The stains are recommended for the internal and external shade modification of all high fusing meta porcelains. The can also be applied on all high fusing metal free ceramic restorations with zirconia and alumina frameworks, CAD/CAM porcelain blocks, press porcelains and ceramic teeth.

Available in: 32 versatile colors and refills in 3gm

The Vintage Art Basic Color Set consists of 17 bottles to adjust the shade of the restoration to mimic the shade characteristics of natural teeth. Unique stains of A, B, C, D, R shades are very useful when slight shade change is required for a perfect match to the natural tooth.

The set contains: Base Color Stains x 8 (Pink, Yellow, Blue, Orange, Violet, Green, White & Black), Color Stains x 3 (Dark Red Brown, Orange Brown & Khaki), Shade Stains x 5 (A-Shade, B-Shade, C-Shade, D-Shade & R-Shade), Glazing Paste, Vintage Art Stain Liquid 50ml, Shade Color Card & Instructions.

VINTAGE ART STAIN LIQUID

This Liquid is designed to adjust the viscosity of the Vintage Art stains, and the quantity of stain liquid may vary depending on the consistency required.

Packaging
Bottle of 50ml [PN 6513]

<table>
<thead>
<tr>
<th>Refills: Vintage ART Basic Color Stain Shades</th>
<th>3gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Color Stain: Pink, Yellow, Blue, Orange, Violet, Green, White, Black</td>
<td>●</td>
</tr>
<tr>
<td>Color Stains: Dark Red Brown, Orange Brown, Khaki</td>
<td>●</td>
</tr>
<tr>
<td>Shade Stains: A-Shade, B-Shade, C-Shade, D-Shade, R-Shade</td>
<td>●</td>
</tr>
<tr>
<td>Glazing Paste</td>
<td>●</td>
</tr>
<tr>
<td>Vintage Art Stain Liquid: 50ml</td>
<td>●</td>
</tr>
</tbody>
</table>
An all ceramic veneering porcelain system that offers extensive aesthetic possibilities for all popular zirconium dioxide crown and bridge fabrications.

Its micro-fine and homogeneous particle structure enables efficiency in handling and an excellent colour harmonisation to natural teeth even with the application of extremely thin layers.

Ensures high bonding strength with increased resistance against cracking and the physical properties remain unchanged even after repeated firing with a stable coefficient of thermal expansion.

- Intuitive system components
- Highly stable ceramic
- Easy to learn color layout
- Can be layered on any zirconia substructure

Available shade:

Vintage AL/ZR Opaque Liner Liquid
This mixing liquid has been created to adjust the viscosity of the Opaque Liner paste.
Packaging: Bottle of 3 ml [PN 8011]

Vintage Gum LP / DP 15 gm

Available in:
Sets and refills of 5gm / 15gm / 50gm

<table>
<thead>
<tr>
<th>Refills: Vintage ZR A &amp; B Shades</th>
<th>5gm</th>
<th>15gm</th>
<th>50gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cervical: AC, BC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opal Enamel: Opal 57, Opal 58, Opal 59, Opal 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opal Effect: Opal T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correction: ADD-ON B, ADD-ON T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vintage AL / ZR Opaque Liner Liquid: 3ml</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vintage Modelling Liquid: 50ml</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Uni-layer Porcelain is a revolutionary next generation ceramic material that dramatically improves productivity and aesthetic outcomes with a simplified, single powder build-up process. An extension to the popular Vintage MP and ZR product lines, just one baking cycle provides flawless color match for any Vita shade.

The densely-packed homogeneous material yields vastly reduced shrinkage versus multiple firing-cycle techniques while allowing one powder to build to full contour.

- Improve efficiency by simplifying fabrication with a simple, single layer build up process.
- Dramatically enhances productivity and profitability by saving time and easing the learning curve especially for new technicians.
- Vita Shades easily attained with Vintage MP Paste Opaque that provides the foundation hue while the UNI-LAYER porcelain provides the desired level of translucency and opalescence.

Packaging: 50 g

Vintage MP Uni-Layer

Vintage MP Uni-Layer is a revolutionary single layer porcelain system that provides a simple, predictable and economical solution to the modern dental laboratory.

Uni-layer Porcelain is a revolutionary next generation ceramic material that dramatically improves productivity and aesthetic outcomes with a simplified, single powder build-up process. An extension to the popular Vintage MP and ZR product lines, just one baking cycle provides flawless color match for any Vita shade.

The densely-packed homogeneous material yields vastly reduced shrinkage versus multiple firing-cycle techniques while allowing one powder to build to full contour.

- Improve efficiency by simplifying fabrication with a simple, single layer build up process.
- Dramatically enhances productivity and profitability by saving time and easing the learning curve especially for new technicians.
- Vita Shades easily attained with Vintage MP Paste Opaque that provides the foundation hue while the UNI-LAYER porcelain provides the desired level of translucency and opalescence.

Packaging: 50 g

Vintage ZR Uni-Layer

High fusing single layer porcelain for metal free restorations

Vintage ZR Uni Layer is a modern leucite reinforced single layer porcelain, with offers an economical alternative to monolithic all zirconium restorations. The Uni-Layer porcelain is based on the Vintage ZR feldspar porcelain with its crystalline structure, which offers a homogeneous firmness and is still gentle on the antagonist.
Based on the proven VITA Classical color system, the new Vintage shade Guide from Shofu, offers 16 plus five additional shades for a precise and efficient patient-specific shade selection.

This comprehensive shade guide includes a total of 21 shades - 16 well-known shades A1 to D4, supplementary chroma intensive shades rootA and 4 bleaching shades (W0 to W3).

The modern user friendly design with the segmented shade groups of W, A, B, C, D ensures easy shade selection.

**Packaging**: Individually packed
**Vitrified-bonded diamond abrasive designed for contouring porcelains and ceramic copings.** Dura-Green DIA provides enhanced performance with a smoother, chip-resistant cut versus silicon carbide or diamond burs. Densely packed diamonds are embedded throughout (from the surface to the core) in a special glass binder offering extended cutting ability up to the last ounce of material.

**ZILMASTER**

Three step diamond impregnated polishing system designed specifically for all ceramic restorations including lithium disilicate and fully contoured zirconia restorations.

Individual shapes are packed in a box of 3’s. Unmounted wheel is individually packed Assorted shapes are packed in a box of 4’s as follows:

- ZilMaster Coarse Assorted HP [PN 0644]
  1 x Bullet, Mini-Point, KN7, WH6
- ZilMaster Medium Assorted HP [PN 0650]
  1 x Bullet, Mini-Point, KN7, WH6
- ZilMaster Fine Assorted HP [PN 0656]
  1 x Bullet, Mini-Point, KN7, WH6
- ZilMaster Coarse Assorted CA [PN 0664]
  1 x Bullet, Knife, Cup, Mini-Point
- ZilMaster Medium Assorted CA [PN 0669]
  1 x Bullet, Knife, Cup, Mini-Point
- ZilMaster Fine Assorted CA [PN 0674]
  1 x Bullet, Knife, Cup, Mini-Point

**Recommended Speed Range:**
- Mounted Polisher: 10,000 - 15,000 rpm / Max. 20,000 rpm, Contact Pressure 1.5 N
- Unmounted Wheel: 5,000 - 10,000 rpm / Max. 15,000 rpm, Contact Pressure 1.5 N

**FISSURE CARBIDE BUR HP / FG**

Specially designed with a unique trigonal pyramid shaped tip or perfect pointed-end for a variety of applications such as anatomical carving of pit & fissure and minor adjustment of interproximal area of bridges fabricated with porcelain, indirect composite and hard resin, trimming of interdental papilla of denture and trimming the inner surface of crowns.

The special three-blade design is highly abrasive with remarkable durability.

**Packaging**
- HP shank packed in a box of 6’s
- FG shank packed in a box of 3’s
CERAMAGE POLISHING KIT HP

Specially designed for systematic polishing of indirect composite materials such as Ceramage micro-ceramic indirect composite.

The Kit Contains:

- Robot Carbide Fissure Bur HP,
- Silicone Points HR2 x 3 (11, 13S x 1 each & No. 28 x 2),
- Shofu Pivot Brush x 1, Shofu Pivot Brush SC x 1,
- Shofu Mandrels x 2, DURA-POLISH x 1 jar (20gm),
- DURA-POLISH DIA x 1 jar (5gm), Shofu Felt Wheels x 3
  (No. 1602 x 2 – 16mm diameter, 2mm thickness &
  No. 2405 x 1 – 24mm diameter, 5mm thickness)

CERAMIC TECHNIQUE SYSTEM KIT HP

Designed to provide dental technicians with the right abrasive instruments for their precision work. For adjusting, gross reduction, trimming, finishing and polishing of metal – ceramic restorations.

High quality abrasive instruments have been specially selected and organized into two separate stands for Metal Treatment and Porcelain Finishing.

The Kit Contains:

- **Box 1: For Metal Treatment**
  (Finishing of metal surface)
  - Brown Points x 3 (No.47, 20, 10),
  - Ceramometal Points x 2 (No. 20, 29),
  - Unmounted Cutting Disks x 5 (25mm),
  - HP Mandrel x 1, Polishing with 3 each of
    Brownie & Greenie Points
    (No. WH6, PC2, KN7)

- **Box 2: For Porcelain Finishing**
  (Contouring and finishing of porcelain)
  - Fine Diamond Points x 3 (No. F5R, F4R, F16R),
  - Dura Green Points x 5 (No.WH6, TC4, KN7, IC3,
    TC1), Ultra Thin Diamond Disk x 1 (62UTD),
  - Separate Disks x 5 (0.25 mm thickness & 22mm diameter),
  - HP Mandrel x 1, Soft Cut PA x 1
    (No. WH6) & Soft Cut PB x 2 (No. WH6, PC2)
Ceramage is a versatile micro-ceramic indirect composite with 73% zirconium silicate fillers, suitable for a wide range of anterior and posterior restorations. Ideal for metal reinforced or metal free restorations, veneers, inlays, onlays, crowns and bridges, implant supported restorations, etc.

**Available in:**
Sets and refills (paste type in 4.6gm / syringe & flowable type in 2gm / syringe)

- **Ceramage Intro Kit (shade A2, A3, A3.5) Contains:**
  Pre-Opaque 2ml x 1, Opaque 2ml x 1, Cervical 2.6ml x 1, Body 2.6ml x 1, Flowable Composite Resin 2ml x 1, Incisal 2.6ml x 1, M.L. Primer 5ml x 1, Uni Brush, Light Shield Cover x 1, Paper Pad (50 Sheets) x 1, Dispodish x 10
- Refills: Available individually

**SOLIDILITE / SUBLITE**
Solidlite is a light-curing unit designed to polymerize Ceramage indirect composite and features preprogrammed curing time of 1, 3 & 5 minutes.

**Packaging**
Power supply: AC 100 V, 50 / 60 Hz

**CERAMENTE GUM COLOR FULL SET**

**Packaging**
Ceramage Gum Color Full Set [PN 1804] Contains:
Opaque 2ml x 2, Translucent 4.6gm x 1, Concentrate 4.6gm x 3, Flowable Composite Resin 2ml x 4
Vintage LD is an innovative and predictable lithium disilicate based all-ceramic system that offers life-like aesthetics with varying levels of natural translucency and lasting durability.

Formulated with three perfectly compatible components comprising of pressable glass ceramic ingots, a silicate based veneering porcelain and low fusing stains, Vintage LD provides reliable results whether applied individually or in combination.

Vintage LD offer a versatile solution for a variety of clinical indications to meet the aesthetic requisite of all-ceramic anterior and posterior restorations.

VINTAGE LD PRESS BASIC SET
- Vintage LD Press:
  Ingots (3g) X 40 : 5pcs, Each In The Shades
  Body 15gm X 1, Cervical 15gm X 1,
- Ceravety Press & Cast:
  Powder (100g) X 5pkt, Liquid (100ml)

VINTAGE LD PRESS TRIAL KIT
Ingots (3g) X 5:
MT-A2 x 2, MT-A3 x 2, T-1 x 1

VINTAGE LD STARTER SET
- Vintage LD:
  Body (A2 & A3), Opal Enamel (15g) x 2 shades,
  Opal Effect (15g) x 1 shade
- Vintage LD Press:
  Ingots (3g) X 5 : MT-A2 x 2, MT-A3 x 2, T-1 x 1
- Vintage Art LF:
  Stains (3g) x 2, Glazing Paste (5g),
  Vintage Art LF Stain Liquid (50 ml),
  Vintage Mixing Liquid HC (50ml)
- Ceravety Press & Cast:
  Powder (100g) x 5pkt, Liquid (100ml), Instructions for use
**Strong 204/102L**

- Basic model, Mini-compact design
- Less-vibration standard carbon brush motor
- RPM: max 35,000 rpm
- Torque: 280 gf.cm
- Input: 100, 110/320, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Foot on/off switch

**Strong 206/103L**

- Basic model, Mini-compact design
- Less-vibration standard carbon brush motor
- RPM: max 35,000 rpm
- Torque: 280 gf.cm
- Input: 100, 110/320, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Foot on/off switch

**Strong 207B/107**

- Basic model, Mini-compact design
- Less-vibration standard carbon brush motor
- RPM: max 35,000 rpm
- Torque: 280 gf.cm
- Input: 100, 110/320, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Foot on/off switch

**Strong 210/105L**

- Basic model, Mini-compact design
- Less-vibration standard carbon brush motor
- RPM: max 35,000 rpm
- Torque: 270 gf.cm with 105L
- Input: 100V, 110V, 230V, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Foot speed pedal and foot on/off pedal option

**Strong 210/105L**

- Non stage speed system with high torque
- Unique design
- Handpiece Holder
- RPM: max 35,000 rpm
- Torque: 270 gf.cm with 105L
- Input: 100V, 110V, 230V, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Foot speed pedal and foot on/off pedal option

**Strong 210/105L**

- Ergonomically designed
- Excellent durability
- RPM: MAX 35,000 rpm
- Torque: 450 gf.cm
- Input: 100V, 110V, 230V, 240V (50/60 Hz)
- Output: DC0-32V
- Auto cut function in control box
- Double locking system in H/P
- Lowest noise and vibration, Maximal efficiency
- Foot speed control

**Strong 210/105L**

- Double output system
- Non stage speed system with high torque
- RPM: max 45,000 rpm
- Torque: 450 gf.cm
- Input: 100V, 110V, 230V, 240V (50/60 Hz)
- Output: DC0-32V
- Right & Left turning ability
- Hand/Foot speed control system
- Automatic overload protection system
Laboratory Products

**Oz- Black**

Desktop type
strong torque at low speed
Vertical/Horizontal placement

- RPM : max 50,000 rpm
- Torque : 7.8 N.cm
- Input: 100~120, 220~240V(50/60Hz)
- Output : 230V
- Right & Left turning ability
- Hand/Foot speed control system
- Self-diagnosis, Error display, Work memory

---

**Forte 100**

- Desktop type
- Ergonomic design
- Excellent durability
- Digital Display
- RPM : max 50,000 rpm
- Torque : 7.8 N.cm
- Input : 100~120, 220~240V(50/60Hz)
- Output : 230W
- Lowest noise and vibration, maximal efficiency
- Hand/Foot speed control

**Forte 200**

- Knee control type
- Ergonomically designed
- Excellent durability
- Digital Display
- RPM : max 50,000 rpm
- Torque : 7.8 N.cm
- Input: 100~120, 220~230, 240V(50/60Hz)
- Output : 230W
- Knee/Hand/Foot speed control
- Lowest noise and vibration, maximal efficiency

**Forte 300**

- Ergonomic design
- Excellent durability
- Low noise and Vibration
- Digital Display
- RPM : max 40,000 rpm
- Torque : 4 N.cm
- Input : AC100~120V, 220~230, 240V (50/60Hz)
- Output : 230W
- Hand/Foot speed control
**Lab Brushless Motor - Slim**

**B110**
- Knee Control type
- BLDC Type
- Compact design
- Excellent durability

- RPM: max 50,000 rpm
- Torque: 7.0 N.cm
- Input: AC100~120, 220~240V(50/60Hz)
- Output: 230W
- Lowest noise and vibration, maximal efficiency
- Hand/Foot speed control system
- FWD/REV Function
- Auto-Cruise Function
- Handpiece: 202g (H180)

**B111**
- Knee Control type
- DC Type
- Compact design
- Excellent durability

- RPM: max 45,000 rpm
- Torque: 4.5 N.cm
- Input: AC100~120, 220~240V(50/60Hz)
- Output: 230W
- Knee control system
- Hand/Foot speed control system
- FWD/REV Function
- Auto-Cruise Function
- Handpiece: 202g (H180)
**Lab Hand Pieces**

**Carbon brush handpiece**

<table>
<thead>
<tr>
<th>Model</th>
<th>RPM</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRONG102L</td>
<td>35,000</td>
<td>232 g</td>
<td>159 x 79 x 73 x 27 x 15</td>
</tr>
</tbody>
</table>

**Surveyor**

More precise work is possible with the exclusive handpiece

- High quality precision instrument for milling, drilling, setting attached models, and tapping
- Smooth and micro-fit arm
- Surveyor holder using for Exclusive handpiece (Strong102LSII)
- Easy movement of fixing vise and 360° rotation
- Surveyor pin 8 pieces are included
- Weight: L203.5 x W170 x H330

---

**Carbon brush handpiece**

<table>
<thead>
<tr>
<th>Model</th>
<th>RPM</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRONG102LSII</td>
<td>35,000</td>
<td>190 g</td>
<td>153 x 80 x 73 x 29 x 15</td>
</tr>
</tbody>
</table>
Porcelain Ni-cr Alloys
• Very good results
• No Wastage
• Made in USA

Non Precious Alloy
• Porcelain Ni-cr Alloys
• Very good results
• No Wastage
• Made in USA

<table>
<thead>
<tr>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni</td>
</tr>
<tr>
<td>61.2</td>
</tr>
</tbody>
</table>

Non Precious Alloy
• A biocompatible, nickel and beryllium-free alloy for use with ceramic restorations
• No Wastage
• Made in USA

Metal’s Precious Alloys

<table>
<thead>
<tr>
<th>Alloy</th>
<th>Color</th>
<th>Ni</th>
<th>Cr</th>
<th>Mo</th>
<th>Be</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argeloy N.P.</td>
<td>White</td>
<td>61.2</td>
<td>25.8</td>
<td>11.0</td>
<td>_</td>
</tr>
</tbody>
</table>

Non Precious Alloy
• Porcelain Ni-cr Alloys
• Very good results
• No Wastage
• Made in USA
**LM Discs**

LM Separating and Grinding Disk for metal and ceramic working.

Made of hard polymerized resin, Aluminium Oxide and Silicon Carbide for the best quality, in grinding and cutting.

- Non-Pollutant
- Absolutely heatless
- For precise cutting of ceramics and precious alloy.
- Medium fine grit size

Available Size:
- Cutting Disc (32 x 2.2 mm)
- (40 x 1.0 mm)
- (35 x 0.7 mm)
- Separating Disc (25 x 0.6 mm)
- (25 x 0.7 mm)

Operating speed: 25000 rpm
Pacing: 100 pcs/box

**Mounted Stone**


**Argon Wheels & Points**

- For polishing of semi precious alloys & metals of silicone carbide.
- For Pre-refing, Polishing, Smoothing
- Suitable for Chrome-Cobalt Alloy, semi-precious & titanium alloys

Packaging: 100 pcs box
Suggested Speed: 30,000 rpm
Elite Rock

Models in fixed complete or partial prosthesis
Models in implant prosthesis
• Very low expansion
• Splintering resistant
• Excellent casting under vibration
• Abrasion resistant
• High compressive strength
Packaging- 1 bag Sandy Brown, 3 kg
  1 carton - 4 bag

Zetalabor

C-silicone laboratory putty for duplication of denture moulds, control matrix for the design of metal structures, impressions for copy denture technique, matrix for use in making temporary crown/bridges, matrix for the reproduction of gingival tissue (eg Zhermack gingifast), insulation of teeth/gypsum in flask
• High initial flowability
• Good final hardness
• High detail reproduction
• No deformation in flask. Good breaking strength
• Heat resistant 140°C
• High elastic resistance

Gingifast Rigid

Gingival reproduction for implant prosthetic models indicated for direct technique
• Easy milling : Permits accurate margin definition
• Indicated for implant prosthetics
• Precision and dimensional stability
Packaging- 2 Cartridges, 50 ml each
  1 bottle Separator, 10ml
  12 Mixing tips small/yellow
  12 Intraoral tips yellow spray

Hanging Motor

No. 30 Handpiece with Jacobs Chuck
• Foot Control
• 18,000 RPM hanging motor
• Chuck key with plastic handle
• Grease
**D+Z Carbide Bur**

High quality tungsten carbide lab burs with rapid cutting and smooth trimming of porcelain castings

High performing burs with exceptionally long lifetimes

These include the unique soldering technique of carbide Till head to shank unlike other burs in market with Carbide head and steel shank

In addition, we achieve perfect concentricity resulting in smoother, vibration-free running.

---

**Compatibility:** Smaller rotary tools. Shank diameter: 3mm (about 1/8"). Shank Length: 35mm. From right to left direction of cutting uniform movement, not like the use of wheel for reciprocating cutting.
**Investment Material**

**SunVest**

Dental Investment Material for Crown & Bridge  
Net Weight: 400g/pouche  
Carton Contains: 30 pouches and 3 ltr Liquid  
Mixture Ratio  
Powder : Liquid  
100 gm : 24-25 ml

**StarVest**

Dental Investment Material for Partial Denture  
Net Weight: 400g/pouche  
Carton Contains: 50 pouches and 4 ltr Liquid  
Mixture Ratio  
Powder : Liquid  
100 gm : 22-23 ml

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**STAR BOND**

Nickel based dental alloy for ceramic

Alloy for ceramics, absolutely Nickel free.  
Highly Resistant to corrosion and heat with a low conductivity.

<table>
<thead>
<tr>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ni</td>
</tr>
<tr>
<td>63</td>
</tr>
</tbody>
</table>

**STAR BOND SPECIAL**

Cobalt based dental alloy for ceramic

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>8.4 g/cm³</td>
</tr>
<tr>
<td>Vickers Hardness</td>
<td>324 HV10</td>
</tr>
<tr>
<td>Yield load Strength</td>
<td>475 MPa</td>
</tr>
<tr>
<td>Modulus of elasticity</td>
<td>194 GPa</td>
</tr>
<tr>
<td>Thermal Expansion Coefficient</td>
<td>14.5</td>
</tr>
<tr>
<td>% elongation of fracture</td>
<td>3.4%</td>
</tr>
<tr>
<td>Solidus liquids temp</td>
<td>1253-1304°C</td>
</tr>
</tbody>
</table>
INDUCTION CASTING MACHINE
Ares is equipped with a modern conception generator, which enables to obtain low times in melting so reducing the oxidation. Its innovative shape of the monobloc arm reduces the vibrators to the least. Infrared pyrometer, optional.

Supply 230V / 50Hz
Power 3Kw
Resonance average frequency 90kHz
Casting capacity da 15 a 120g
Casting time for 40gr of c.c.m 50 sec
cast, da 30 - 50 - 65 - 80 x 55(H) mm
Cooling water
Coil movement by compressed air 3 bar
Weight 76 Kg
Dimensions 60 x 76 x 62h cm

UNIVERSAL MECHANICAL SAW
Direct current motor. 6,000 Rpm. Constant torque.
Volt 230 input, Volt 48 output.
Magnetic platform for model-holder fixing.
Built-in sucker and filter.
The unit is provided with all safety devices against industrial accidents.

TECHNICAL DATA:
Supply: 230V / 50 Hz
Power: 125 W
Motor speed: 6.000 Rpm
Absorbed current: 0,65 A
Blade thickness: 0,2 mm
Weight: 14 Kg
Dimensions: 25x30x32h cm

AUTOMATIC MIXER
Automatic vacuum mixer for plasters, investments and silicones equipped with dry vacuum pump and digital electronically timer to set the patching time. The standard cup is of 200 or 500 cc but there are optional available cups of 1000 cc and 2000cc. This vacuum mixer is available with wall and bench stand.

Supply 230V / 50 Hz
Power 140 W
Motor speed 400 Rpm
Weight 8 Kg
Dimensions 16x22x30h cm

MODEL TRIMMER
The model-trimmer is particularly strong. Its driving-shaft revolves on ball bearings, the starting is automatic and requires no auxiliary device. The model-trimmer type SD.84.96 comes with a carbide grinding wheel and a simplex solenoid valve for water inlet. The model-trimmer type SD.84.96.D with diamond wheel is suitable for dry work.

Supply 230 V / 50 Hz Wheel Carbide (SD.84.96.00) 
Power 850 W Diamond (SD.84.96.D.00)
Motor speed 2,800 Rpm
Absorbed current 6.5 A
Weight 14 Kg
Dimensions 30x40x32h cm
Solenoid included
MILLING MACHINE
The milling machine has been studied to mill palatal and lingual zones on plaster or resin models.

- It is very strong, noiseless and of easy maintenance.
- The motor shaft is mounted on ball bearings of 2RS type protection.
- The rotor is dynamically balanced.

TECHNICAL DATA:
- Supply: 230V / 50 Hz
- Power: 130 W
- Motor Speed: 2,800 G/Min
- Absorbed current: 1,2 A
- Weight: 5 Kg
- Dimensions: Ø 16 x 29h cm

STEAM CLEANER
The steam cleaner generates steam on 3.5 bar with a considerable energy saving. The unit has a stainless steel tank (AISI 304 type) and a drain cock allowing the tank cleaning. All functions are protected by a checking circuit assuring the maximal safety of working. The unit complies with PED 97/23 Standard (Pressure Equipment Directive). Water filling is manual.

- Supply: 230 V/50 Hz
- Boiler heating element: 1,600 W
- Max. pressure: 3.5 BAR
- AISI 304 stainless tank: 4 mm
- Rated tank capacity: 3 liters
- Weight: 13 Kg
- Dimensions: 27x35x40 h
- Cap with safety valve
- Steam control valve
- End water warning light
- Minimal pressure warning light
- Maximal pressure warning light

PRE HEATING OVEN
Pre-heating oven equipped with a new simple and functional electronic card allowing to store a three-stage cycle with customizable temperatures, rising speeds and standby and cooling times. It is fitted for the connection to an extractor equipped with intake fan. Safety micro-switch on the door complying the European Standards.

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply</th>
<th>Max temperature</th>
<th>Power</th>
<th>Cylinder capacity</th>
<th>Weight</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARIES.10.P.00</td>
<td>230 V/50 Hz</td>
<td>1100 °C</td>
<td>1700 W</td>
<td>n°6–3X</td>
<td>18 Kg</td>
<td>40x43x38 h cm</td>
</tr>
<tr>
<td>ARIES.10.M.00</td>
<td>230 V/50 Hz</td>
<td>1100 °C</td>
<td>2400 W</td>
<td>n°9–3X</td>
<td>30 Kg</td>
<td>41x56x65 h cm</td>
</tr>
<tr>
<td>ARIES.10.G.00</td>
<td>230 V/50 Hz</td>
<td>1100 °C</td>
<td>2850 W</td>
<td>n°8–6X</td>
<td>35 Kg</td>
<td>41x66x65 h cm</td>
</tr>
</tbody>
</table>

MICRO SANDBLASTER
The micro-sandblasters type BETA.1.00, BETA.2.00 and BETA.3.00 have one, two and three units respectively are proper for roughing investments, cleaning and polishing the surface of metals for ceramics and resin. The micro-sandblasters are complete with inner lighting. It is possible to control the pressure in each cylinder. On request the micro-sandblasters are equipped with recycling system device (nozzle Ø 3.5 mm).

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Nozzle Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA.1.00</td>
<td>230V/50 Hz</td>
<td>13 Kg</td>
<td>40x43x38 h cm</td>
<td>1 mm</td>
</tr>
<tr>
<td>BETA.2.00</td>
<td>230V/50 Hz</td>
<td>13 Kg</td>
<td>40x43x38 h cm</td>
<td>0.8 - 1 mm</td>
</tr>
<tr>
<td>BETA.3.00</td>
<td>230V/50 Hz</td>
<td>13 Kg</td>
<td>40x43x38 h cm</td>
<td>0.8 - 1 - 1.3 mm</td>
</tr>
</tbody>
</table>
Maintenance & Parts

- Armature
- Foot On/Off Switch
- Ball Bearing

- Carbon Brush
- Hand Piece Stand
- Collect Chuck

- Hanging Engine Hand Piece
- Foot Speed control A
- Lead

- Hanging Engine Shaft
- Spindle Assembly
- Sleeve Collect Chuck

- Lead
- Lead (Brushless H/p)
- Motor Stand

- Foot On/off Switch
- Handpiece Holder
- Surveyor pin set
Branch Offices:

Jaipur office
Shop no. 13-14 near Geetanjali Hotel Toll Tax, Tonk Road, Sanganer, Jaipur, Phone No.: 91-141-2790728
E-Mail: jaipur@aplmedident.com

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A/112, Abhishek Complex-2, Asanwa, Ahmedabad – 380016
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Kolkata office
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Kolkata -700 001, Ph. no.: 033-40653189
E-Mail: Kolkata@aplmedident.com

Mumbai office
412, 4th Floor, Plot no. X21, MIDC Cross Road 21, Marol Industrial Area, Andheri (East), Mumbai–400093 Phone No.: 91-22-65664281
E-Mail: mumbai@aplmedident.com

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E-Mail: hyderabad@aplmedident.com

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bangalore@aplmedident.com

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Agkem Impex Pvt. Ltd.