making work easy

Catalog

- Equipment
- Instruments
- Materials
- and more
“How do you make work easier for dental technicians?”

You will find the answers to this question on the following 192 pages – in the form of reliable Renfert products

Renfert making work easy
# Index

<table>
<thead>
<tr>
<th>A</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Bruguera, Wax Set, GEO Expert</td>
<td>164–165</td>
</tr>
<tr>
<td>Abrasives</td>
<td>58</td>
</tr>
<tr>
<td>Acrylic bristle brush</td>
<td>110–11</td>
</tr>
<tr>
<td>Active carbon, for purging furnaces</td>
<td>184</td>
</tr>
<tr>
<td>Alginate mixing bowl, Twister</td>
<td>66</td>
</tr>
<tr>
<td>Alginate solvent, GO 2011 speed</td>
<td>189</td>
</tr>
<tr>
<td>Aluminium oxide, abrasives</td>
<td>58</td>
</tr>
<tr>
<td>Aqua, die varnish, die:master</td>
<td>154–155</td>
</tr>
<tr>
<td>Arch trimmer, Millo</td>
<td>73</td>
</tr>
<tr>
<td>Arch trimmer, Millo pro</td>
<td>73</td>
</tr>
<tr>
<td>Arched pin</td>
<td>148</td>
</tr>
<tr>
<td>Automatic recyclable sandblaster, Vario jet</td>
<td>42–43</td>
</tr>
<tr>
<td>Alginate mixing bowl, Twister</td>
<td>66</td>
</tr>
<tr>
<td>Alginate solvent, GO 2011 speed</td>
<td>189</td>
</tr>
<tr>
<td>Aluminium oxide, abrasives</td>
<td>58</td>
</tr>
<tr>
<td>Aqua, die varnish, die:master</td>
<td>154–155</td>
</tr>
<tr>
<td>Arch trimmer, Millo</td>
<td>73</td>
</tr>
<tr>
<td>Arch trimmer, Millo pro</td>
<td>73</td>
</tr>
<tr>
<td>Arched pin</td>
<td>148</td>
</tr>
<tr>
<td>Automatic recyclable sandblaster, Vario jet</td>
<td>42–43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar retainers, GEO</td>
<td>179</td>
</tr>
<tr>
<td>Basic classic, micro-sandblaster</td>
<td>46–49, 54</td>
</tr>
<tr>
<td>Basic eco, micro-sandblaster</td>
<td>46–49, 55</td>
</tr>
<tr>
<td>Basic line, porcelain brushes</td>
<td>110</td>
</tr>
<tr>
<td>Basic master, micro-sandblaster</td>
<td>46–49, 53</td>
</tr>
<tr>
<td>Basic mobil, micro-sandblaster</td>
<td>46–49, 56</td>
</tr>
<tr>
<td>Basic quattro IS, micro-sandblaster</td>
<td>46–49, 50–51</td>
</tr>
<tr>
<td>Basic quattro, micro-sandblaster</td>
<td>46–49, 52</td>
</tr>
<tr>
<td>Basic Set, GEO Classic modeling waxes</td>
<td>167</td>
</tr>
<tr>
<td>Bead abrasive, Rolloblast</td>
<td>58</td>
</tr>
<tr>
<td>Bi-Fix-Pin</td>
<td>147</td>
</tr>
<tr>
<td>Bi-Flex, diamond-coated separating disc</td>
<td>129</td>
</tr>
<tr>
<td>Bijou 90, Bunsen burner</td>
<td>86</td>
</tr>
<tr>
<td>Bi-Pin drill</td>
<td>76</td>
</tr>
<tr>
<td>Bi-Pins</td>
<td>145, 147</td>
</tr>
<tr>
<td>Bison, polishing brushes</td>
<td>135</td>
</tr>
<tr>
<td>Bi-V-Pins</td>
<td>144</td>
</tr>
<tr>
<td>Block-out wax, GEO</td>
<td>176</td>
</tr>
<tr>
<td>Bonyhard clasps, GEO</td>
<td>178</td>
</tr>
<tr>
<td>Brilliant, separating and grinding disc, Dynex</td>
<td>122–124</td>
</tr>
<tr>
<td>Brinell L, high-lustre diamond polishing paste</td>
<td>187</td>
</tr>
<tr>
<td>Brushes</td>
<td>104–111</td>
</tr>
<tr>
<td>Brushes, overview</td>
<td>104</td>
</tr>
<tr>
<td>Bunsen burners</td>
<td>86</td>
</tr>
<tr>
<td>Burners</td>
<td>86</td>
</tr>
<tr>
<td>Casting sprues, pear shaped wax GEO</td>
<td>174</td>
</tr>
<tr>
<td>Casting wax, GEO</td>
<td>180</td>
</tr>
<tr>
<td>Casting wax, preparation wax, GEO self-adhesive</td>
<td>176</td>
</tr>
<tr>
<td>Catalytic converter, Magma</td>
<td>88–89</td>
</tr>
<tr>
<td>Ceramex, stripping agent for porcelain</td>
<td>184</td>
</tr>
<tr>
<td>Ceramicus, porcelain brush</td>
<td>110</td>
</tr>
<tr>
<td>Cervical and undercut wax, GEO Classic</td>
<td>170</td>
</tr>
<tr>
<td>Cervical and undercut wax, GEO Grownax</td>
<td>172</td>
</tr>
<tr>
<td>Cervical wax, GEO Classic</td>
<td>169</td>
</tr>
<tr>
<td>Cervical wax, GEO Expert A. Bruguera</td>
<td>165</td>
</tr>
<tr>
<td>Chilse inserts, Power pillo, Pillo</td>
<td>59</td>
</tr>
<tr>
<td>Chuningking brush</td>
<td>137</td>
</tr>
<tr>
<td>Circular retainer, GEO</td>
<td>179</td>
</tr>
<tr>
<td>Clasp profiles, GEO</td>
<td>178</td>
</tr>
<tr>
<td>Classic waxes, GEO</td>
<td>166–170</td>
</tr>
<tr>
<td>Cleaning agents, overview</td>
<td>189</td>
</tr>
<tr>
<td>Cleaning, ultrasonic</td>
<td>92–93</td>
</tr>
<tr>
<td>Cloth filter for Vortex compact 3L</td>
<td>38</td>
</tr>
<tr>
<td>Cobra, fine abrasives</td>
<td>58</td>
</tr>
<tr>
<td>Color mixing tray for stains, lay:art</td>
<td>98–99, 102</td>
</tr>
<tr>
<td>Combined sandblaster, Vario basic</td>
<td>44–45</td>
</tr>
<tr>
<td>Compressed air filter</td>
<td>57</td>
</tr>
<tr>
<td>Concret, super glue</td>
<td>151</td>
</tr>
<tr>
<td>Corundum, abrasives</td>
<td>58</td>
</tr>
<tr>
<td>Corundum, Cobra</td>
<td>58</td>
</tr>
<tr>
<td>Cotton buffs, polishers</td>
<td>136</td>
</tr>
<tr>
<td>Crowax, GEO modeling wax</td>
<td>171–172</td>
</tr>
<tr>
<td>Crystal aqua mixing tray, lay:art</td>
<td>98–100</td>
</tr>
<tr>
<td>Crystal mixing tray, lay:art</td>
<td>98–99, 101</td>
</tr>
<tr>
<td>Cutting/separating discs</td>
<td>121–132</td>
</tr>
<tr>
<td>Cyanacrylate glues</td>
<td>150–151</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calipers</td>
<td>120</td>
</tr>
<tr>
<td>Calipretto CR, measuring instrument</td>
<td>119</td>
</tr>
<tr>
<td>Calipretto S, measuring instrument</td>
<td>120</td>
</tr>
<tr>
<td>Casting sprues, GEO triangular</td>
<td>174</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflasking chisels, Power pillo, Pillo</td>
<td>59</td>
</tr>
<tr>
<td>Deluxe, instrument set</td>
<td>117</td>
</tr>
<tr>
<td>Denture cleaning system</td>
<td>90–91</td>
</tr>
<tr>
<td>Denture resins, high-luster polishing paste</td>
<td>186–188</td>
</tr>
<tr>
<td>Denture resins, polishers</td>
<td>134–138</td>
</tr>
<tr>
<td>Denture wax pot, Waxpro</td>
<td>85</td>
</tr>
<tr>
<td>Dentures, cleaning</td>
<td>90–91</td>
</tr>
<tr>
<td>Dentures, mesh inserts</td>
<td>182</td>
</tr>
<tr>
<td>Dentures, strengthening grids/inserts</td>
<td>182</td>
</tr>
<tr>
<td>Dia-Finish L, diamond polishers</td>
<td>136</td>
</tr>
<tr>
<td>Category</td>
<td>Pages</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Diagnostic wax, GEO Classic Natural  / Snow-white</td>
<td>168–169</td>
</tr>
<tr>
<td>Diamond polishers, Dia-Finish L</td>
<td>136</td>
</tr>
<tr>
<td>Diamond polishing paste, Brinell L</td>
<td>187</td>
</tr>
<tr>
<td>Diamond polishing paste, Renfert Polish all-in-one</td>
<td>186</td>
</tr>
<tr>
<td>Diamond polishing paste, Renfert Polish LiSi₂</td>
<td>186</td>
</tr>
<tr>
<td>Diamond polishing paste, Renfert Polish ZrO₂</td>
<td>186</td>
</tr>
<tr>
<td>Diamond-coated separating discs</td>
<td>124, 129–130</td>
</tr>
<tr>
<td>Diamond-coated trimmer discs</td>
<td>72</td>
</tr>
<tr>
<td>Die spacer varnishes</td>
<td>154–155</td>
</tr>
<tr>
<td>Die spacers</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master aqua, die varnishes</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master ivory, die varnishes</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master, die varnishes</td>
<td>154–155</td>
</tr>
<tr>
<td>Dipping pots for waxes</td>
<td>83–84</td>
</tr>
<tr>
<td>Dipping waxes</td>
<td>163</td>
</tr>
<tr>
<td>Dry/wet trimmer, MT plus</td>
<td>71</td>
</tr>
<tr>
<td>Dust bags</td>
<td>40</td>
</tr>
<tr>
<td>Dust box, Dustex master plus</td>
<td>39</td>
</tr>
<tr>
<td>Dust extractor SILENT compact</td>
<td>28–31, 36</td>
</tr>
<tr>
<td>Dust extractor SILENT compactCAM</td>
<td>28–31, 37</td>
</tr>
<tr>
<td>Dust extractor SILENT T5</td>
<td>28–31, 35</td>
</tr>
<tr>
<td>Dust extractor SILENT TS2</td>
<td>28–31, 34</td>
</tr>
<tr>
<td>Dust extractor SILENT V4</td>
<td>28–33</td>
</tr>
<tr>
<td>Dust extractor Vortex compact 3L</td>
<td>38</td>
</tr>
<tr>
<td>Dust extractors SILENT</td>
<td>28–37</td>
</tr>
<tr>
<td>Dustex master plus, dust box</td>
<td>39</td>
</tr>
<tr>
<td>Dynex Brilliant, separating and grinding discs</td>
<td>122–124</td>
</tr>
<tr>
<td>Dynex Titanium, separating and grinding discs</td>
<td>122–124</td>
</tr>
<tr>
<td>Dynex, separating and grinding discs</td>
<td>122–128</td>
</tr>
</tbody>
</table>

**E & F**

<table>
<thead>
<tr>
<th>Category</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easyclean, ultrasonic cleaner</td>
<td>92–93</td>
</tr>
<tr>
<td>Eco, safety burner</td>
<td>86</td>
</tr>
<tr>
<td>Electric wax knives, Waxlectric</td>
<td>78–81</td>
</tr>
<tr>
<td>Electric wax technology</td>
<td>78–86</td>
</tr>
<tr>
<td>Elektrolyte, polishing liquid</td>
<td>189</td>
</tr>
<tr>
<td>Equipment</td>
<td>26–95</td>
</tr>
<tr>
<td>ERGO Acryl, modeling instruments</td>
<td>115</td>
</tr>
<tr>
<td>ERGO Ceramic, modeling instruments</td>
<td>114</td>
</tr>
<tr>
<td>ERGO Wax, modeling instruments</td>
<td>115</td>
</tr>
<tr>
<td>Expert waxes, GEO</td>
<td>164–165</td>
</tr>
<tr>
<td>Extraction technology</td>
<td>28–41</td>
</tr>
<tr>
<td>Extractor clamp</td>
<td>41</td>
</tr>
<tr>
<td>Extractor, SILENT compactCAM</td>
<td>37</td>
</tr>
<tr>
<td>Extractor, Vortex compact 3L</td>
<td>38</td>
</tr>
<tr>
<td>Extractions</td>
<td>28–41</td>
</tr>
<tr>
<td>Fibertray, firing tray</td>
<td>184</td>
</tr>
</tbody>
</table>

**Fine abrasives** | 58
**Fine sandblasting units** | 42–56
**Finish, polishing pastes** | 186–188
**Firing pads, Fibertray** | 184
**Firing tray, Mesh-Train** | 183
**Firing tray, Mesh-Train K** | 183
**Firing tray, Mesh-Train MK** | 183
**Fixation tweezers/pliers** | 117–118
**Four workbench suction unit, SILENT V4** | 28–33
**Furnace, Magma** | 88–89

**G**

<table>
<thead>
<tr>
<th>Category</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genius, porcelain brushes</td>
<td>108</td>
</tr>
<tr>
<td>GEO bar retainers</td>
<td>179</td>
</tr>
<tr>
<td>GEO block-out wax</td>
<td>176</td>
</tr>
<tr>
<td>GEO bonyhard clasps</td>
<td>176</td>
</tr>
<tr>
<td>GEO cast model modeling wax standard/transparent</td>
<td>177</td>
</tr>
<tr>
<td>GEO casting wax</td>
<td>176, 180</td>
</tr>
<tr>
<td>GEO Classic Avantgarde, modeling waxes</td>
<td>168</td>
</tr>
<tr>
<td>GEO Classic Basic Set</td>
<td>167</td>
</tr>
<tr>
<td>GEO Classic cervical and undercut wax</td>
<td>170</td>
</tr>
<tr>
<td>GEO Classic cervical wax</td>
<td>169</td>
</tr>
<tr>
<td>GEO Classic milling wax</td>
<td>170</td>
</tr>
<tr>
<td>GEO Classic modeling waxes</td>
<td>167</td>
</tr>
<tr>
<td>GEO Classic Natural, wax-up wax</td>
<td>168</td>
</tr>
<tr>
<td>GEO Classic Snow-white, wax-up wax</td>
<td>169</td>
</tr>
<tr>
<td>GEO Classic Waxes</td>
<td>166–170</td>
</tr>
<tr>
<td>GEO Crowax cervical and undercut wax</td>
<td>172</td>
</tr>
<tr>
<td>GEO Crowax modeling waxes</td>
<td>171–172</td>
</tr>
<tr>
<td>GEO Crowax waxes</td>
<td>171–172</td>
</tr>
<tr>
<td>GEO Dip, dipping waxes</td>
<td>163</td>
</tr>
<tr>
<td>GEO dipping waxes</td>
<td>163</td>
</tr>
<tr>
<td>GEO Expert cervical A. Bruguera, cervical wax</td>
<td>165</td>
</tr>
<tr>
<td>GEO Expert wax Set A. Bruguera</td>
<td>164–165</td>
</tr>
<tr>
<td>GEO Expert waxes</td>
<td>164–165</td>
</tr>
<tr>
<td>GEO grid meshes</td>
<td>179</td>
</tr>
<tr>
<td>GEO lingual bars</td>
<td>181</td>
</tr>
<tr>
<td>GEO model casting wax assortment</td>
<td>175</td>
</tr>
<tr>
<td>GEO molar clasps</td>
<td>178</td>
</tr>
<tr>
<td>GEO pear-shaped wax casting sprues</td>
<td>174</td>
</tr>
<tr>
<td>GEO perforated retainings</td>
<td>179</td>
</tr>
<tr>
<td>GEO Pontics wax pontics</td>
<td>173</td>
</tr>
<tr>
<td>GEO premolar clasps</td>
<td>178</td>
</tr>
<tr>
<td>GEO retention meshes</td>
<td>179</td>
</tr>
<tr>
<td>GEO ring clasps</td>
<td>178</td>
</tr>
<tr>
<td>GEO sticking wax</td>
<td>177</td>
</tr>
<tr>
<td>GEO triangular casting sprues</td>
<td>174</td>
</tr>
<tr>
<td>GEO wax wire</td>
<td>173</td>
</tr>
<tr>
<td>GEO wax wire in bars</td>
<td>181</td>
</tr>
<tr>
<td>Glass beads, Rolloblast</td>
<td>58</td>
</tr>
</tbody>
</table>
Glass fibre-reinforced separating
discs 124–128, 132
Glues 148–151
GO 2011 speed, plaster remover/
alginic solvent 189
Goat hair brush 135
Gold filter, Dustex master plus 39
Grinding box 41
Grinding discs 132
Hardening bath, sealing of plaster models 152
Hepa fine filter, extractors 41
High performance compressed air filter 57
High-luster finish, diamond polishing paste, Brinel L 187
High-luster finish, diamond polishing paste, Renfert Polish all-in-one 186
High-luster finish, diamond polishing paste, Renfert Polish LiSi 186
High-luster finish, diamond polishing paste, Renfert Polish ZrO 186
High-luster polishers 133–138
High-luster polishing paste, Opal L 188
High-luster polishing paste, Saphir 188
High-luster polishing pastes, overview 185
Hotty LED, wax die pot 84
Hotty, wax die pot 84
Infinity, diamond trimmer disc 72
Instruments 112–139
Instruments, overview 114
Investment models, model spray 152
Isofix 2000, plaster/plaster isolation 157
Keramogrip, fixation plier 118
Klettfix, trimmer discs 72
Kohinoor L, high-luster polishing paste, porcelain 187
Kolinsky, porcelain brush 109
Laboratory burners 86
Large wax knife, Waxelectric modeling tips 82
Laser pin drilling unit, Top spin 74–75
lay:art crystal aqua, mixing tray 100
lay:art crystal, mixing tray 101
lay:art natural, mixing tray 101
lay:art oasis, mixing tray 101
lay:art style, brushes 104–107
lay:art tropic pro, mixing tray 100
lay:art tropic, mixing tray 100
lay:art, mixing trays 98–102
LED lighting, microscope 95
Linen buff, polisher 138
Lingual bars, GEO 181
Liquicol B, super glue 151
Liquicol, super glue 151
Magma, accessories 88–89
Magma, catalytic converter 88–89
Magma, preheating furnace 88–89
Magnifier, Dustex master plus 39
Magnifying glasses, Remberti 95
Marathon, diamond-coated trimmer disc 72
Materials, overview 141
Measuring instruments 119–120
Melody, mixing tray for stains 103
Melting ranges, waxes 162
Mesh inserts, dentures 182
Mesh strengtheners 182
Mesh-Tray K, firing tray 183
Mesh-Tray MK, firing tray 183
Mesh-Tray, firing tray 183
Metal sleeves, Bi-V-Pin 144
Metrical scoops, porcelain 116
Micro-fiber brushes for porcelain, Ceramicus 110
Microscope, accessories 95
Microscope, LED lighting 95
Microscope, Mobiloskop S 94–95
Milling wax, GEO Classic 170
Millo pro, dental arch trimmer 73
Millo, dental arch trimmer 73
Mixing bowl, Twister 66
Mixing spatula 66
Mixing trays 98–103
Mixing trays for stains 102–103
Mixing units, vacuum 60–65
Mobiloskop S, microscope 94–95
Model base former, Pin-Cast 142
Model casting, high-luster polishing paste 187–188
Model casting, polishers, brushes 133
Model casting, separating discs 128–132
Model casting, special brushes 137
Model casting, waxes, GEO 175
Model sealing, hardening bath 152
Model separating discs, Plastercut 129
Model spray, investment models 152
Model trimmers 68–72
Modeling brushes 104–111
Modeling instruments 114–117
Modeling instruments, porcelain 114, 116
Modeling instruments, resins 115
Modeling instruments, wax 115
Modeling tips 82
Modeling wax, GEO Classic 167
Modeling wax, GEO Classic Avantgarde 168
Modeling wax, GEO Crowax 171–172
Modeling wax, GEO Expert 164–165
Modeling waxes, overview 159–162
Molar clasp, GEO 178
MT plus, dry/wet trimmer 71
MT3, trimmer 68–70
Multi-extractors 28–34
Narrow brush 137
Natural gas burners 86
Natural hair brushes 104–111
Natural mixing tray, lay:art 101
New products 10–25
Non-precious metal, high-luster polishing paste 187–188
Non-precious metal, polishers, brushes 133–138
Non-precious metal, separating discs 125–128, 132
Nozzles for sandblasting units 56
Oasis mixing tray, lay:art 101
Occlusion spray, Occlutec 157
Occlutec, occlusion spray 157
Opal L, high-luster polishing paste 188
Opaquing brushes 104–107, 109–111
Pear shaped wax, casting sprues GEO 174
Pellets, dipping waxes, GEO 163
Perforated retention, GEO 179
Picosep, plaster/wax isolation 156
Picossilk, surface conditioning 158
Pillo, deflasking chisels 59
Pin drilling unit, Top spin 74–75
Pin drills 76
Pin systems 142
Pin-Cast, model base former 142
Pins 143–148
Pins, overview 143
Plaster chisels, Pillo 59
Plaster chisels, Power pillo 59
Plaster isolation, Isofix 2000 157
Plaster remover, GO 2011 speed 189
Plaster sealant, Liquicol 151
Plaster sealant, Liquicol B 151
Plaster surface hardener, hardening bath 152
Plaster trimmers 68–72
Plaster, separating discs 128–129
Plaster, trimmer discs 72
Plaster/wax isolation, Picosep 156
Plastercut, plaster diamond-coated separating disc 129
Plastics, Bi-V-Pin 144
Plated buff, polisher 138
Plier, Jacketgrip 118
Plier, Keramogrip 118
Polish all-in-one, diamond polishing paste 186
Polish LiSi2, diamond polishing paste 186
Polishers, overview 133
Polishing brushes, overview 133
Polishing liquid, Elektrolyte 189
Polishing pastes, overview 185
Polisoft, polishers 134
Pontics, wax pontics, GEO 173
Porcelain additive, Proform-12 158
Porcelain, brushes 104–111
Porcelain, firing tray 183
Porcelain, high-luster polishing pastes 186–187
Porcelain, metrical scoops 116
Porcelain, mixing trays 96–103
Porcelain, polishers, brushes, overview 133
Porcelain, separating discs 122–124, 129–131
Porcelain, stripping agent, Ceramex 184
Power pillo, deflasking chisel 59
Precious metal, high-luster polishing paste 186–188
Precious metal, polishers, brushes 133–138
Precious metal, separating discs 125, 131
Preheating furnace, Magma 88–89
Premolar clasps, GEO 178
Pre-polishers 134–135, 137–138
Pre-polishing, overview 133
Profi, porcelain brush 109
Pro-Fix, single pin 146
Proform-12, porcelain additive 158
Propane gas burner 86
Rainbow, mixing tray 102
Rational wax technique 78–85
Recyclable blaster, Vario jet 42–43
Recyclable sandblasters 42–45
Remberti, magnifying glasses 95
Renfert Polish all-in-one, diamond polishing paste 186
Renfert Polish LiSi2, diamond polishing paste 186
Renfert Polish ZrO2, diamond polishing paste 186
Resins, modeling 152
Resins, modeling instruments 115
Retention meshes, GEO 179
Retention rings 148
Rewax, dipping wax, GEO 163
Ring clasps, GEO 178
Roll wax, GEO 173
Rolloblast, glass beads 58
Rubber caps, pins 148
Safety burner eco 86
Safety burner, Bunsen burner 86
Sandblasters 46–56
Sandblasting nozzles 56
Sandblasting tanks 57
Sandblasting technology 42–58
Saphir, high-luster polishing paste 188
Scan spray 157
Sealants, overview 149
Sealing, hardening bath 152
Separating and grinding discs, Dynex 122–128
Separating discs, model casting/non-precious metals 125–128, 132
Separating discs, overview 121
Separating discs, plaster 129
Separating discs, porcelain 129–131
Separating discs, precious metals 125, 131
Set of Waxlectric holders 82
Sets of instruments 117
Silencer, inline silencers 40
SILENT compact, single workbench suction unit 28–31, 36
SILENT compactCAM, extractors 28–31, 37
SILENT extractors 28–37
SILENT TS, single workbench suction unit 28–31, 35
SILENT TS2, two workbench suction unit 28–31, 34
SILENT VA4, four workbench suction unit 28–33
Silicone polishers 134
Silver wire brush 135
Silver wire brush 136
Single pin, Pro-Fix 146
Single workbench suction unit, SILENT compact 28–31, 36
Single workbench suction unit, SILENT TS 28–31, 35
Slim, brush 138
Smart-Pin 146
Smart-Pin drill 76
Solvents, overview 189
Special brush for model casting 137
Split-Cast-System, Pin-Cast 142
Squirrel hair brush 111
Stabiloplast, modeling resin 152
Staining brush 104–111
Stain-Mix, mixing tray for stains 103
Stand, vacuum mixing units 66
Standard, separating discs 132
Standard, set of instruments 117
Step drill, Pins 76
Stepped pin drill bit 76
Stereo microscope, Mobiloskop S 94–95
Sticking wax, GEO 177
Strengthening grids 182
Stripping agent for porcelain, Ceramex 184
Super glue 150–151
Super glue, Concret 151
Super glue, Liquicol 151
Super glue, Liquicol B 151
Super glue, overview 149
Support arm Mobiloskop 95
Surface conditioning, Picosilk 158
SYMPRO, denture cleaning device 90–91
SYMPROfluid, cleaning fluid 91
Takanishi, porcelain brush 111
Titanium, separating and grinding disc, Dynex 122–124
Top spin, pin drilling unit 74–75
Triangular, GEO casting sprues 174
Trimmer 68–71
Trimmer discs 72
Tropic pro, mixing tray, lay:art 100
Tropic, mixing tray, lay:art 100
Turbo-Flex S, diamond-coated separating disc 129
Twister evolution venturi, vacuum mixing unit 60–63
Twister evolution, vacuum mixing unit 60–63
Twister venturi, vacuum mixing unit 60–61, 64–65
<table>
<thead>
<tr>
<th>Category</th>
<th>Item Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twister, vacuum mixing unit</td>
<td>60–61, 64–65</td>
<td></td>
</tr>
<tr>
<td>Two workbench suction unit, SILENT TS2</td>
<td>28–29, 34</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Ultracut, sinter diamond-coated separating disc</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>Ultra-Fine, separating disc</td>
<td>131</td>
</tr>
<tr>
<td></td>
<td>Ultrasonic cleaner, Easyclean</td>
<td>92–93</td>
</tr>
<tr>
<td></td>
<td>Undercut wax, GEO Classic</td>
<td>170</td>
</tr>
<tr>
<td></td>
<td>Universal hose connection adapter, SILENT TS</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Universal instrument</td>
<td>116</td>
</tr>
<tr>
<td></td>
<td>Universal polishing paste</td>
<td>188</td>
</tr>
<tr>
<td></td>
<td>Universal wax, GEO Crowax</td>
<td>171–172</td>
</tr>
<tr>
<td>V</td>
<td>Vacuum mixing units, Twister</td>
<td>60-65</td>
</tr>
<tr>
<td></td>
<td>Vario basic, recyclable/ microsandblaster</td>
<td>44–45</td>
</tr>
<tr>
<td></td>
<td>Vario E, wax heating unit</td>
<td>83</td>
</tr>
<tr>
<td></td>
<td>Vario jet, recyclable blaster</td>
<td>42–43</td>
</tr>
<tr>
<td></td>
<td>Veneering composites, high-luster polishing paste</td>
<td>188</td>
</tr>
<tr>
<td></td>
<td>Veneering composites, modeling instrument</td>
<td>115</td>
</tr>
<tr>
<td></td>
<td>Veneering composites, polisher</td>
<td>135–136</td>
</tr>
<tr>
<td></td>
<td>Vibrator</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>Vibrax, vibrator</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>Vortex compact 3L, extractor</td>
<td>38</td>
</tr>
<tr>
<td>W, Y &amp; Z</td>
<td>Wax bars, GEO</td>
<td>181</td>
</tr>
<tr>
<td></td>
<td>Wax brushes</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td>Wax casting sprues pear-shaped, GEO</td>
<td>174</td>
</tr>
<tr>
<td></td>
<td>Wax combi brush</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td>Wax die pots, hoty, hoty LED</td>
<td>84</td>
</tr>
<tr>
<td></td>
<td>Wax heater</td>
<td>83–85</td>
</tr>
<tr>
<td></td>
<td>Wax Isolation</td>
<td>156</td>
</tr>
<tr>
<td></td>
<td>Wax isolation, Picosep, Iso-Stift</td>
<td>156</td>
</tr>
<tr>
<td></td>
<td>Wax isolations</td>
<td>156</td>
</tr>
<tr>
<td></td>
<td>Wax knives, electric</td>
<td>80–81</td>
</tr>
<tr>
<td></td>
<td>Wax pellets, dipping waxes</td>
<td>163</td>
</tr>
<tr>
<td></td>
<td>Wax pontics, Pontics GEO</td>
<td>173</td>
</tr>
<tr>
<td></td>
<td>Wax sheets, GEO</td>
<td>180</td>
</tr>
<tr>
<td></td>
<td>Wax wetting agent, Picosilk</td>
<td>158</td>
</tr>
<tr>
<td></td>
<td>Wax wire, GEO</td>
<td>173</td>
</tr>
<tr>
<td></td>
<td>Wax, Basic-Set GEO Classic</td>
<td>167</td>
</tr>
<tr>
<td></td>
<td>Wax, modeling instruments</td>
<td>115</td>
</tr>
<tr>
<td></td>
<td>Waxes, melting ranges</td>
<td>162</td>
</tr>
<tr>
<td></td>
<td>Waxes, overview</td>
<td>159</td>
</tr>
<tr>
<td></td>
<td>Waxlectric I &amp; II, electric wax knives</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>Waxlectric light I &amp; II, electric wax knives</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>Waxlectric, accessories</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Waxlectric, modeling blades</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Waxprofi, denture wax pot</td>
<td>85</td>
</tr>
<tr>
<td></td>
<td>Wax-up technology</td>
<td>78–86</td>
</tr>
<tr>
<td></td>
<td>Wax-up wax, GEO Classic Natural/ Snow-white</td>
<td>168–169</td>
</tr>
<tr>
<td></td>
<td>Wet trimmer, MT3</td>
<td>68–70</td>
</tr>
<tr>
<td></td>
<td>Wire brushes, silver</td>
<td>135–136</td>
</tr>
<tr>
<td></td>
<td>Workbench extractor units</td>
<td>28–36</td>
</tr>
<tr>
<td>Contents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>When does work feel good? ............2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workflow guarantee ...............4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New products ..........................8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment ..............................26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extraction technology ..........28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandblasting technology ..........42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deflasking ............................59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixing technology .................60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibrators ..............................67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trimmers ...............................68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dental arch trimmers ..........73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pin drilling unit .................74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wax technology ........................78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preheating technology ..........88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning technology ...............90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microscope .............................94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixing trays and brushes ....96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>lay:art system .......................98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixing trays ..........................100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brushes .................................104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instruments ............................112</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand instruments ....................114</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring instruments ..........119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Separating discs .................121</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polishers ...............................133</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material .................................140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model system .........................142</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pins .....................................143</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adhesion, sealing and hardening ..........149</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lacquering and separating ........153</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utilities .................................157</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waxes ...................................159</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mesh reinforcements ..........182</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Porcelain accessories ..........183</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abrasives ...............................58</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polishing agents ....................185</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning agents .....................189</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spare part information and imprint ..........................190</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Renfert Digital ......................191</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact information ..................192</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How Renfert finds long-term solutions for routine work.

The tradition of strong intercommunication between customer and company, the desire to address ever-changing technologies and the continual desire for self-improvement are reasons for Renfert’s success.
In focus: Solutions for enthrallingly good work

The dental sector is fascinating because different demands and influences meet here. The desire for the most natural appearance possible – and the use of modern, also digital, technologies. Clear esthetic, medical and scientific guidelines – and a passion for craftsmanship and artistic freedom demand instruments and materials for highly individualized working.

In this area of conflicting priorities, Renfert as a supplier and manufacturer appreciates it is important to enable each user to implement their own ideas under optimum conditions and with the best products. Therefore our product development always begins with the question of how we can simplify work. And we only consider our solution satisfactory once proven that this is exactly what it does.

We owe the ability to continually fulfill this promise to our numerous customers worldwide who trust in us. We are sure that our products will convince you that work becomes easier with Renfert.

“Anyone who wants to make work easier must be able to listen and not just say “This is what the market wants! But asks: What does the dental technician need? I firmly believe that our success is due to the close relationship with our customers.”

Sören Hug
Managing Director, Renfert
How do you know what makes work easier?

Easy working, clear direction. Renfert products have a wide range of advantages, which users will appreciate each day for years to come. You can identify them quickly and easily with these five icons:
These products are very easy to use. Practical ergonomics and uncomplicated application make your working experience more pleasant. Renfert products are designed to be easy to hold, easy to use or to significantly simplify the production step.

These products provide an optimum view. Seeing your work precisely is the key to perfect results. Renfert products guarantee that you always have a clear view, which promotes your love for details when working.

These products are particularly compact. You simply work more effectively with a feeling of freedom. Renfert products are designed to save space – and thus provide more room to ensure that your lab environment is not overcrowded with excessively large units.

These products operate very quietly. Even an active workstation with many units does not have to be loud. Renfert products keep things quiet – disturbance through high noise levels are a thing of the past.

These products are particularly compact. You simply work more effectively with a feeling of freedom. Renfert products are designed to save space – and thus provide more room to ensure that your lab environment is not overcrowded with excessively large units.

These products come with their own tool. It is simply great if you don't have to search for the appropriate tool. Because everything you need to work with the unit, clean it or replace parts, is right there.
This guarantee provides assurance!

“We understand that purchasing a product is an investment in the future, meaning that labs want to profit from stable, continuous performance in the long term. This guarantee is intended to provide our customers with the necessary assurance.”

Maximilian Scheid
Equipment Development
After-sales service, customer service and spare-part service, loan-unit service and repair service: our customer support has many competent facets and many highly motivated employees. Ultimately, however, only one thing counts: that your needs are addressed – as quickly as possible.

Trust is based on the certainty of always having a contact partner.

After-sales service, customer service and spare-part service, loan-unit service and repair service: our customer support has many competent facets and many highly motivated employees. Ultimately, however, only one thing counts: that your needs are addressed – as quickly as possible.

3 year guarantee*
All Renfert Laboratory devices have a three year guarantee.* If at some point something does not function, you still have the comforting assurance that Renfert will find a solution to the problem under the guarantee. This builds trust.

*Wear parts excluded

10 year spare parts guarantee
All Renfert products are very durable. Therefore we are well prepared with the availability of spare parts. Renfert guarantees that original spare parts will be available for every device, for the duration of at least ten years after purchase. This gives security.

The activity guarantee
Renfert service is outstandingly efficient. In cooperation with Renfert dealers and certified service partners worldwide, a strong, competent and passionate team is focused on minimizing possible failures in the laboratory. Thereby ensuring efficiency.

Trust is based on the certainty of always having a contact partner.

After-sales service, customer service and spare-part service, loan-unit service and repair service: our customer support has many competent facets and many highly motivated employees. Ultimately, however, only one thing counts: that your needs are addressed – as quickly as possible.

All contacts and service numbers can be found on Page 192
“Jens, What is the secret to developing good products?”

“I would say: an understanding of the people who use them. Dental technicians are often individualists and artists who fabricate restorations with a great deal of passion. But they also want robust and reliable equipment that is suitable for daily use. If I keep these two aspects in mind, I can design really good, practical products.”
What makes product development for dental technicians exceptional?

“First, it is a satisfying task because the market is relatively small and specialized. An acute awareness is required to penetrate the market, to listen exactly to how it moves and what it demands. Not only for the overall routine daily work of the sector but also for the individual people with their different requirements. It is therefore not just the very big technical revolutions that count but also the details, small things that greatly simplify work for dental technicians. This is why I never think of product features in isolation, but always in entire workflows.”

Which of the current new products have you been particularly pleased with?

“With the SILENT compact and SILENT compact CAM extraction units. I was pleased with these products because we have successfully developed something exceptional here. We have created a practical combination of the analogue and digital processes with the SILENT compactCAM. With the extremely quiet extraction units we struck the right chord with dental technicians, but now we have also provided an extraction unit solution for manufacturers of small to medium CAD systems. I am proud of the fact that with the extraction units we have a product, which exhibits the core competence of Renfert and simultaneously responds to developments in the dental market.”
SILENT compact

→ Single workbench extraction

The SILENT compact is a small, workplace extraction unit for one appliance.

→ Page 36
SILENT compactCAM

→ Device extraction unit for CAM units

An extraction unit by Renfert, specially developed for optimized use with compact, dental CAM units.

→ Page 37
Basic eco

→ Fine sandblasting unit with 1–2 tanks

The Basic eco microblaster with up to two tanks offers high precision within a minimum space thanks to its compact dimensions. Top blasting technology and an attractive price-performance ratio combine to provide an ideal product for first-time users and laboratories where space is at a premium.

→ Page 55
Genius

→ Natural bristle brush with protective function

High quality natural hair brushes in a modern design, with a protective function integrated in the handle. Renfert uses a unique manufacturing technique in order to ensure that the brush hair has a high level of strength, shape stability and longevity.

→ Page 108
lay:art oasis

Ceramic mixing tray with moistening system

High-Tech porcelain mixing tray with glazed surface and perforated wells. Automatic capillary moistening for processing and storing of dental ceramic materials.

Page 101
Calipretto CR

→ Precision measuring instrument

Precise dial calipers with measuring tips made from high performance ATZ (Alumina Toughened Zirconia) ceramic, specially designed for measuring the wall thickness of full ceramic dental restorations.

→ Page 119
Dynex

→ Separating and grinding discs

Separating and grinding discs for ceramic, titanium, precious and non-precious alloys as well as model casting alloys.

→ Page 122
die:master ivory & aqua

→ Die varnishes

Tooth colored, removable die varnishes specially designed for all-ceramic restorations, such as press ceramics made from lithium disilicate (LS₂).

→ Page 154
GEO Expert Wax Set A. Bruguera

Wax set for creating monolithic, diagnostic and esthetic wax-ups for single restorations and bridgework according to the philosophy developed by August Bruguera.

Page 164
GEO Crowax

Modeling and special waxes

The modeling waxes in the GEO Crowax line are medium hard, universal waxes in handy tins for use in crown and bridge techniques as well as model casting framework techniques.

Page 171
Renfert Polish

→ Diamond polishing pastes

Diamond polishing pastes for universal application and specific use, for high-gloss polishing of ceramic materials such as lithium disilicate, zirconium oxide, veneering and hybrid ceramics, such as high performance polymers and veneering composites.

→ Page 186
GO 2011 speed

→ Cleaning agent

Suitable for cleaning different instruments and aids quickly and thoroughly in only 50% of the time in comparison to conventional plaster and alginate solvents.

→ Page 189
Small aids

→ Wax Isolation
Silicone based separating agent for optimal isolation of plaster from wax.

→ Page 156

→ Mesh-Tray MK
Honeycomb firing-tray set with adjustable metal retention pins, which are covered with removable ceramic sleeves.

→ Page 183

Keep up to date

All new products mentioned in this catalogue can be found on our website

www.renfert.com/update

In addition, here you can find all newly released products finalized after this catalogue was published.
“Malek, How do you explain your passion for dental technology?”

“The main objective should never be to get something finished quickly. Although there may be work steps in a process that require less manual finesse, they still need to be completed quickly. A unit that saves me time because it is easy to operate gives me more time to invest in other areas.”
### Contents | Equipment

<table>
<thead>
<tr>
<th>Extraction technology</th>
<th>28–41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four workbench suction unit</td>
<td>32–33</td>
</tr>
<tr>
<td>Two workbench suction unit</td>
<td>34</td>
</tr>
<tr>
<td>Single workbench suction units</td>
<td>35–36</td>
</tr>
<tr>
<td>Extractors</td>
<td>37–38</td>
</tr>
<tr>
<td>Wet and dry suction unit</td>
<td>38</td>
</tr>
<tr>
<td>Extractor box</td>
<td>39</td>
</tr>
<tr>
<td>Accessories SILENT extraction technology</td>
<td>40</td>
</tr>
<tr>
<td>Accessories extraction technology</td>
<td>41</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sandblasting technology</th>
<th>42–58</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recyclable sandblaster</td>
<td>42–43</td>
</tr>
<tr>
<td>Combined blasting unit</td>
<td>44–45</td>
</tr>
<tr>
<td>Fine sandblasting units</td>
<td>46–56</td>
</tr>
<tr>
<td>Accessories sandblasting technology</td>
<td>56–58</td>
</tr>
<tr>
<td>Deflasking chisels</td>
<td>59</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mixing technology</th>
<th>60–66</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum mixing technology</td>
<td>62–65</td>
</tr>
<tr>
<td>Accessories mixing technology</td>
<td>66</td>
</tr>
<tr>
<td>Vibrators</td>
<td>67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trimmers</th>
<th>68–71</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet trimmers</td>
<td>70–71</td>
</tr>
<tr>
<td>Wet and dry trimmer</td>
<td>71</td>
</tr>
<tr>
<td>Trimmer discs</td>
<td>72</td>
</tr>
<tr>
<td>Dental arch trimmers</td>
<td>73</td>
</tr>
<tr>
<td>Pin drilling unit</td>
<td>74–76</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wax technology</th>
<th>78–86</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric wax knives</td>
<td>80–81</td>
</tr>
<tr>
<td>Accessories electric wax knives</td>
<td>82</td>
</tr>
<tr>
<td>Wax heating units</td>
<td>83–85</td>
</tr>
<tr>
<td>Bunsen burners</td>
<td>86</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preheating technology</th>
<th>88–89</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preheating furnace</td>
<td>88–89</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cleaning technology</th>
<th>90–93</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denture cleaning device</td>
<td>90–91</td>
</tr>
<tr>
<td>Ultrasonic cleaner</td>
<td>92–93</td>
</tr>
<tr>
<td>Microscope</td>
<td>94</td>
</tr>
<tr>
<td>Accessories microscope</td>
<td>95</td>
</tr>
<tr>
<td>Magnifying spectacles</td>
<td>95</td>
</tr>
</tbody>
</table>

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**How can you best be successful as a dental technician?**

> “I believe in differentiating between the demands dental technicians place on themselves and the actual work. In this respect, I have met my demands as a dental technician if I see the satisfied smile of the patient. Then I know: I have worked well. I focus on fulfilling this demand. You achieve success in the individual restoration by producing visible esthetics. If I have created harmony between the natural shape, shade, surrounding soft tissue and also the adjacent teeth, then I am particularly proud of my work.”

---

**Which three things are important for your work?**

> “Firstly, equipment which is really easy to use, such as the Twister with programmable settings, it makes my work easier and produces great results. I demand consistent quality as it makes my work predictable, which is really great! Reliable, top notch standards. Secondly, a clear view. Everything which helps me work neatly and carefully as well as a large viewing window for monitoring the quality visually while microblasting. Thirdly, I would like my equipment to be pleasant in daily use. For example the Top spin is virtually vibration-free, which is ingenious!”
Some machines do not have to be in the spotlight to make work easier. They are more like silent, constant companions. When it comes down to it, extraction units in particular, prove their value when they function without you having to pay any attention to them. Quiet, yet powerful.
Extraction units, with maximum power and quietness

It is easy to concentrate and keep the workplace clean: with the SILENT extraction units.

This is what makes work easier

1. extremely quiet
2. strong suction power
3. intuitive operation
4. very long motor running time
5. easy calibration
6. modern, compact design

Combine cleanliness and quietness

A workplace where the fine dust is greatly reduced and at the same time has a pleasant, low noise level greatly facilitates working. SILENT extraction units are therefore not only extremely powerful – with a suction capacity (depending on the version) up to a volume flow of 4000L/min. – but also surprisingly quiet, thanks to psycho-acoustic findings.

Easy start, intuitive operation

Renfert extraction units can be very easily and quickly connected (Plug&Play), operated, cleaned and maintained. They provide the ideal filter technology for every requirement (with or without a bag depending on the version). The front of the unit allows convenient, direct access to all operating elements. All parameters can be very easily set using a membrane keypad or via a clear multifunctional display.

Select the perfect size

SILENT extraction units are available as single-workstation, two-workstation or four-workstation extractors and also for use with a CAD-CAM system. All versions are compact and slimline.
Simply connect and start extracting
Your dust generating devices are optimally controlled together with the workstation extraction units using the easily adjustable calibration of the automatic switch-on function. The SPS interface is the intelligent bi-directional communication with your CAM unit. It enables messages to be processed and measures initiated such as switching on and off, activation of the fine filter cleaning function and requesting the extractor’s function status. All you need to do is connect the extraction unit to your CAM unit, and you’re ready to start.

Increase process reliability with sophisticated motor technology
Two different motor technologies are available, which are both characterized by a very high service life.

The collector motors with an elaborate transformer controller provide a motor running time of > 1000 operating hours. If the motor has to be replaced after a long service life, this is easily completed within a few minutes. The EC motors with brushless turbine technology also have a long service life of > 5000 operating hours.

making work easy for me means …
… that the SILENT extraction units are so pleasantly quiet that I can fully concentrate on my work.

Oliver Bothe
Product Management
Master Dental Technician
# SILENT V4

**Four workbench extraction**

The compact, bag-free four-workstation extractor SILENT V4 provides an individual suction power setting, adapted to the actual requirements. All functions can be set via an intuitive, convenient control panel with LCD display.

**Advantages**

- Suction power at the workstation as required using four separate controllable pinch valves.
- Intuitive and centralized operability via LCD display.
- Central connection of all consumers without any extension cords thanks to the Quattro Control Box.

**Making work easy**

The commutatorless EC motor has a considerably longer motor running time in comparison with commutator motors (> 5 000 operating hours). This long-life motor technology ensures maximum process reliability and saves expensive service and maintenance costs. The suction power is automatically readjusted to adapt it to the consumer.

---

**“With the Quattro control box I was able to connect my units in the test laboratory virtually without an extension cable. An overload protection is also included with this innovative technology.”**

Joanna Deligianni
Product Management, Dental Technicianin

**Technical data – SILENT V4**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V /- 10%, 50/60 Hz</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Suction turbine power*</td>
<td>1400 W</td>
</tr>
<tr>
<td>Ø suction fittings, interior / exterior</td>
<td>38 mm (1.50&quot;) / 45 mm (1.77&quot;)</td>
</tr>
<tr>
<td>Min./ max. connection pressure</td>
<td>4.5 bar (65 psi) / 8 bar (116 psi)</td>
</tr>
<tr>
<td>Number of suction hoses</td>
<td>4</td>
</tr>
<tr>
<td>Volume flow (max.)</td>
<td>4000 l/min (2.35 ft³/s)</td>
</tr>
<tr>
<td>Max. depression</td>
<td>110 hPa (1.6 psi)</td>
</tr>
<tr>
<td>Filter quality</td>
<td>Class M according to EN 60335-2-69</td>
</tr>
<tr>
<td>max. connected load for appliance socket</td>
<td>see Quattro Control Box</td>
</tr>
<tr>
<td>LpA** (at max. volume flow)</td>
<td>62.5 dB(A)</td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>approx. 45 kg (99.36 lbs)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>350 x 750 x 590 mm (13.78 x 29.53 x 23.23&quot;)</td>
</tr>
<tr>
<td>Fill level dust drawer</td>
<td>approx. 12 l (3.17 gal)</td>
</tr>
</tbody>
</table>

* (*) at nominal voltage / frequency
** (**) sound pressure level

**Technical data – Quattro Control Box**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Max. connected load for appliance socket</td>
<td>2300 W</td>
</tr>
<tr>
<td>Max. connected load for QCB in total</td>
<td>2300 W</td>
</tr>
<tr>
<td>Mains input fuse</td>
<td>10 A(T)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>170 x 130 x 130 mm (6.96 x 5.12 x 5.12&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 1 kg (2.2 lbs)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILENT V4, 230 V, Power cable SILENT V4, Quattro Control Box (= QCB), Power cable QCB, Interface cable QCB, Kit of holder QCB, Compressed air tube</td>
<td>2933 0000</td>
</tr>
<tr>
<td>End bushings set and suction hoses</td>
<td>Page 40</td>
</tr>
<tr>
<td>External exhaust air duct</td>
<td>2933 0002</td>
</tr>
<tr>
<td>Cooling air tube, for integration of SILENT V4 in workbench furnishing</td>
<td>2933 0003</td>
</tr>
<tr>
<td>Adjustable feet, for integration of SILENT V4 in workbench furnishing</td>
<td>2933 0004</td>
</tr>
<tr>
<td>Starter set, 2 remote controls, distribution box, QCB interface cable</td>
<td>2933 0420</td>
</tr>
<tr>
<td>Remote control, 1 piece</td>
<td>2933 0400</td>
</tr>
<tr>
<td>Conversion kit front panel</td>
<td>2933 0005</td>
</tr>
<tr>
<td>Pinch valve, straight</td>
<td>90002 1526</td>
</tr>
</tbody>
</table>
Filter technology
The new fine filter cleaning is pneumatic. After each cleaning procedure (1x day) the fine filter (99.9% filtration efficiency) is clean again. This means: full suction power every day! The dust is collected in a drawer, which can be easily emptied from the front. Time-consuming dust bag changes belong to the past.

Noise and health protection
The SILENT V4 is as quiet as the name promises. Unpleasant frequencies have been eliminated with the help of psychoacousticians. The result: pleasant, quiet extraction (max. 62.5 dB(A)). The high suction capacity (max. 4000 l/min; 140 cfm) ensures maximum health protection.

Design
Can the SILENT V4 be integrated? No problem! The comparatively compact design enables easy integration into lab furniture. The standard panel can very easily be changed to the desired front panel. A stand-alone solution is also possible. The right solution for every laboratory.
SILENT TS2
Two workbench extraction

Powerful two workstation extraction, quiet and compact. The SILENT TS2 frees two individual users from health-related dusts.

Advantages
- Suction power only where and when it is needed, thanks to the intelligent independent control of the 2 separate pinch valves (Compressed air connection required).
- Constant suction power thanks to automatic re-adjustment of motor output.
- Intuitive, convenient operation with large, clear multifunctional display.

Details
- Effective dust reduction using a high volume flow of 3 300 l/min.
- Compatible with any handpiece and user due to easy calibration.
- Relaxed working thanks to very low operating noise of only max. 56.9 dB(A).
- High degree of health protection provided by a dust Class M two filter system, and optionally available H/ Hepa filter.
- 3x longer service life (in comparison to conventional collector motors) due to innovative motor technology (> 1 000 operating hours).

Why are our SILENT extractors so quiet?
Some noises are more stressful than others. We worked with psychoacousticians who showed us the unpleasant frequency ranges. This allowed us to minimize the noises drastically in this range and provide the units with a pleasant audio frequency.”

Joachim Egelhof, Management

Technical data
- Permissible mains voltage / frequency: 220–240 V, 50/60 Hz | 120 V, 60 Hz
- Suction turbine power: 1400 W
- Volume flow (max.): 3300 l/min (1.94 ft³/s)
- Max. depression: 200 hPa (2.9 psi)
- Filter quality: Class M according to EN 60335-2-69
- Max. connected load for appliance socket: 2000 W (230 V), 360 W (120 V)
- Total connected power: 3400 W (230 V), 1800 W (120 V)
- Mains input fuse: 2 x 15 A (T)
- Min. / max. connection pressure: 4,5 bar (65 psi) / 8 bar (116 psi)
- Number of suction hoses: 2
- LpA** (at max. volume flow): 56.9 dB(A)
- Fill volume, dust bag: 7.5 l (2 gal)
- Weight (empty): approx. 27 kg (59.5 lbs.)
- Dimensions (W x H x D): 224 x 591 x 584 mm (8.8 x 23.3 x 23.0”)
- Ø suction fittings, interior: 45 mm (1.77”)
- Ø suction fittings, exterior: 50 mm (1.97”)

*) Sound pressure level

Ordering information
- SILENT TS2, 220–240 V, 4 m suction hose, 4 PVC end bushings: No. 2930 0050
- SILENT TS2, 120 V, 4 m suction hose, 4 PVC end bushings: No. 2930 1050
- Pinch valve straight: No. 90002 1526

Suitable accessories
Silencer inline silencers and other accessories ➔ Page 40–41

Further information
www.renfert.com/ P159
SILENT TS

Single workbench extraction

The strong, controllable suction power makes the SILENT TS suitable as a device and workstation extraction unit.

Advantages
- 3x longer service life (in comparison to conventional collector motors) due to innovative motor technology: > 1 000 operating hours.
- Protection against dust exposure through high volume flow (3 300 l/min).
- Low noise pollution of 56.3 dB(A) at max. suction power.

Details
- Tool-free motor change in only 2 min.
- Convenient operation of all functions such as automatic switch-on and filter-full detection by means of the control panel at the front.
- High degree of health protection provided by a dust Class M two-filter system, and optionally available H/Hepa filter.

Workflow guarantee
Renfert provides a guarantee of 1 000 operating hours of motor running time for our SILENT TS motors. The tests even showed service lives of over 2 400 working hours in extreme cases.
SILENT compact

Single workbench extraction

The SILENT compact is a small, workplace extraction unit for one device.

Advantages
- No dust bag change due to bagless, fine filter technology, including mechanical filter cleaning function.
- Easy use due to the intelligent switch-on function controlled by the appliance.
- Noise level reduced due to a fully enclosed collector motor, with a run time of > 1000 operating hours.

Details
- Easily built-in due to compact construction.
- Attractive, high grade design due to the use of special plastic.
- Low downtime as the motor can be quickly replaced by the user (takes 10 min).
- Two suction levels with one suction level optimally suited to the relevant application.
- Active health protection due to filter technology with a filter efficiency of 99.9%.

Technical data

<table>
<thead>
<tr>
<th>Permissible mains voltage / frequency</th>
<th>220–240 V, 50/60 Hz</th>
<th>120 V, 50/60 Hz</th>
<th>100 V, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>230 V / 120 V / 100 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suction turbine power*</td>
<td>490 W (230 V)</td>
<td>480 W (120 V)</td>
<td>480 W (100 V)</td>
</tr>
<tr>
<td>Volume flow (max.)</td>
<td>2500 L/min (1.47 ft³/s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. depression</td>
<td>219 hPa (3.2 psi)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter quality</td>
<td>Class M according to EN60335-2-69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. connecting power</td>
<td>1350 W / 480 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of suction hoses</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LpA** (at max. volume flow)</td>
<td>56.9 dBA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>approx. 13.2 kg (29.1 lbs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>245 x 440 x 500 mm (9.6 x 17.3 x 19.7”)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø suction fittings, interior / exterior</td>
<td>35 mm / 40 mm (1.38” / 1.57”)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fill level dust drawer</td>
<td>approx. 2.6 l (0.69 gal)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*) at nominal voltage / frequency  
**) sound pressure level

Ordering information

- SILENT compact, 220–240 V, suction hose (2 m), incl. 2 mufflers No. 2934 0000
- SILENT compact, 120 V, suction hose (2 m), incl. 2 mufflers No. 2934 1000
- SILENT compact, 100 V, suction hose (2 m), incl. 2 mufflers No. 2934 1500
- External exhaust air duct No. 2934 0004

Suitable accessories

Various ➔ Page 40–41

Easy maintenance

www.renfert.com/P49

Further information

www.renfert.com/P2144
**SILENT compactCAM**

Device extraction unit for CAM units

A Renfert extraction unit, specially developed for optimized use with compact, dental CAM units.

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**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>230–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Suction turbine power*</td>
<td>490 W (230 V)</td>
</tr>
<tr>
<td>Volume flow (max.)</td>
<td>2500 l/min (1.47 ft³/s)</td>
</tr>
<tr>
<td>Max. depression</td>
<td>219 hPa (3.2 psi)</td>
</tr>
<tr>
<td>Filter quality</td>
<td>Class M according to EN 60335-2-69</td>
</tr>
<tr>
<td>CAM interface</td>
<td>RJ 45 socket</td>
</tr>
<tr>
<td>SPS: Input signal / Output signal</td>
<td>2x inputs / 2x outputs (turbine on/off, status information)</td>
</tr>
<tr>
<td>LpA** (at max. volume flow)</td>
<td>56,9 dB(A)</td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>approx. 13,2 kg (29.1 lbs)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>245 x 440 x 500 mm (9.6 x 17.3 x 19.7&quot;)</td>
</tr>
<tr>
<td>Ø suction fittings, interior / exterior</td>
<td>35 mm / 40 mm (1.38&quot; / 1.57&quot;)</td>
</tr>
<tr>
<td>Fill level dust drawer</td>
<td>approx. 2,6 l (0.69 gal)</td>
</tr>
</tbody>
</table>

*) at nominal voltage / frequency   ***) sound pressure level

**Ordering information**

- **SILENT compactCAM**, 230–240 V, suction hose (2 m), incl. 2 mufflers No. 2934 2000
- **SILENT compactCAM**, 220 V, suction hose (2 m), incl. 2 mufflers No. 2934 2500
- **SILENT compactCAM**, 120 V, suction hose (2 m), incl. 2 mufflers No. 2934 3000
- **SILENT compactCAM**, 100 V, suction hose (2 m), incl. 2 mufflers No. 2934 3500
- **External exhaust air duct** No. 29340004
- **Interface cable Type A**, for vhf, 5 m No. 29340005
- **Interface cable Type B**, for Roland DG, 5 m No. 29340006
- **Interface cable Type C**, for imes-i-core, 5 m No. 29340008
- **Interface cable Type D**, for Amann Girrbach, 5 m No. 29340009
- **Interface cable Type E**, for Yenadent, 5 m No. 29340010
- **Interface cable Type F**, for Zirkonzahn, 5 m No. 29340011
- **Interface cable Type F**, for Zirkonzahn with C14 adapter, 5 m No. 29340012

**Suitable accessories**

- Suction hose, antistatic (3 m) → Page 40

**Further information**

www.renfert.com/P2178

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“Until now, bi-directional communication was only available in large industrial machinery. The SILENT compactCAM enables this function to be used with smaller to medium sized CAM units.”

Oliver Bothe, Product Management,
Master Dental Technician

---

**Advantages**

- No need to change the dust bag due to the bagless fine filter technology, including mechanical filter cleaning.
- Processing safety due to bi-directional communication between extraction unit and CAM unit thanks to the SPS interface.
- Process optimized suction performance for compact CAD/CAM units.

**Details**

- Noise level reduced due to a fully enclosed collector motor, with a motor run time of > 1 000 operating hours.
- Easily built-in due to compact construction.
- Attractive, high grade design due to the use of special plastic.
- Low downtime as the motor can be quickly replaced by the user (takes 10 min).
- Active health protection due to filter technology with a filter efficiency of 99.9%.
Vortex compact 3L
Device extraction unit

The Vortex compact 3L is a dust class “L” wet and dry extraction unit, specially developed for use with equipment.

Advantages
- Optimum protection against fine dusts (99.9% filtration efficiency) using a 2-stage filter system with M Class fine filters, optional also H/Hepa filters (No. 90003 4410/-4420).
- 25% increase in the filter capacity at the press of a button using the free-filter system.
- Extremely powerful due to high-speed suction turbine with 1200 Watt and max. 3700 l/min (129.50 cfm).

Details
- Wet suction function makes it ideal for use with water-cooled trimming procedures.
- Dust free removal using an extremely tear-proof, large filter bag (15 l) made from nano-fiber fleece with integrated sealing system.
- Long service life of the washable PET fleece fine filter.

Technical data

<table>
<thead>
<tr>
<th>Permissible mains voltage / frequency</th>
<th>230 V, 50/60 Hz</th>
<th>120 V, 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>230 V / 120 V</td>
<td></td>
</tr>
<tr>
<td>Suction turbine power*</td>
<td>1200 W (230 V) / 840 W (120 V)</td>
<td></td>
</tr>
<tr>
<td>Volume flow (max.)</td>
<td>3700 l/min (2.17 ft³/s)</td>
<td></td>
</tr>
<tr>
<td>Max. depression</td>
<td>250 hPa (230 V) / 230 hPa (120 V)</td>
<td></td>
</tr>
<tr>
<td>Filter quality</td>
<td>Class M according to EN 60335-2-69</td>
<td></td>
</tr>
<tr>
<td>Max. connected load for appliance socket</td>
<td>2400 W (230 V) / 600 W (120 V)</td>
<td></td>
</tr>
<tr>
<td>LpA** (at max. volume flow)</td>
<td>66.3 dB(A)</td>
<td></td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>approx. 10 kg (22 lbs)</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>385 x 600 x 480 mm (15.2 x 23.6 x 18.9”)</td>
<td></td>
</tr>
<tr>
<td>Capacity of dust retainer</td>
<td>30 l / (7.9 gal)</td>
<td></td>
</tr>
</tbody>
</table>

*) at nominal voltage
**) sound pressure level

Ordering information

- Vortex compact 3L, 230–240 V, 1 filter bag, 3 m of tubing No. 2924 5000
- Vortex compact 3L, 120 V, 1 filter bag, 3 m of tubing No. 2924 6000
- Waste bag, 5 pieces No. 2924 5002
- Dust bag, 5 pieces No. 2924 5003
- Fine filter, 1 piece No. 2924 5004
- Cloth filter, 1 piece No. 2924 5005

Suitable accessories
H/Hepa Fine Filter, Extractor clamp, Extractor Switch ➔ Page 41

Further information
www.renfert.com/P157
Dustex master plus
Dust Extractor Box

The non-tip and non-slip Dustex master plus extractor box protects against splinters, dust and fumes. An ergonomically well-conceived form and height-adjustable arm rests enable free, comfortable working.

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
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<tr>
<td>Lamp power</td>
<td>16 W</td>
</tr>
<tr>
<td>Ø suction fittings, interior</td>
<td>35 mm (1.38”)</td>
</tr>
<tr>
<td>Ø suction fittings, exterior</td>
<td>40 mm (1.57”)</td>
</tr>
<tr>
<td>Weight</td>
<td>5 kg (11.0 lbs)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>380 x 285 x 400 mm (15.0 x 11.2 x 15.8”)</td>
</tr>
<tr>
<td>Working chamber (volume)</td>
<td>17 l (4.5 gal)</td>
</tr>
</tbody>
</table>

Ordering information

Dustex master plus, 220–240 V, Dust box, fluorescent light with lamp cover, extraction port kit, armrests No. 2626 0105
Dustex master plus, 100–120 V, Dust box, fluorescent light with lamp cover, extraction port kit, armrests No. 2626 1105
1. High quality magnifier with flexible swan-neck No. 2626 0300
2. Gold filter No. 2626 0600

The suitable complement

SILENT TS workplace extraction unit → Page 35

Further information

www.renfert.com/P934

Advantages

- Extraction directly at the object ensures a clear view.
- Maximum freedom of movement thanks to a large inner volume (17 l).
- PerfectView: Innovative LED Technology for best contour and detail recognition.

Details

- Comfortable working due to large arm inlets.
- Bright, built-in illumination with 4 800 Lux.
- High safety thanks to laminated protective screen with silicone coating.
- Versatile use due to compact and sturdy, light-weight powder-coated housing.
- Practical wooden support, made of hard beech wood.
SILENT
Accessories

Special dust bag
For SILENT TS and SILENT TS2.
- High intake capacity: 7.5 l filling volume.
- Resilient, fully synthetic material, tear-resistant and sealable.
- Class M dust bag (DIN EN 60335-2-69).

Caster set
Helps easy, flexible placement of the unit.
- Casters are quickly and easily assembled.

Universal hose connector adapter
Suitable for most common sized hoses.
- Accurately fitting connection without cutting to size.

Exhaust air adapter
For external exhaust air duct.
- Reduces the heat in the laboratory.

Silencer Inline silencer
- Up to 50% reduction of the perceptible extraction noise, with constant suction power.
- Quick and easy installation on the suction hoses.

Ordering information

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 End bushings set</td>
<td>2 pieces</td>
<td>No. 29210003</td>
</tr>
<tr>
<td>2 Suction hose, 3 m (with 2 mufflers)</td>
<td></td>
<td>No. 900034240</td>
</tr>
<tr>
<td>2 Suction hose, 3 m, antistatic (with 2 mufflers)</td>
<td></td>
<td>No. 900034826</td>
</tr>
<tr>
<td>3 Suction hose, 6 m</td>
<td></td>
<td>No. 901150823</td>
</tr>
<tr>
<td>3 Suction hose, 9 m</td>
<td></td>
<td>No. 902150823</td>
</tr>
<tr>
<td>4 Special dust-bag, synthetic, 5 pieces</td>
<td></td>
<td>No. 29210002</td>
</tr>
<tr>
<td>5 Universal adapter for hose connection</td>
<td></td>
<td>No. 900034305</td>
</tr>
<tr>
<td>6 Universal adapter for suction hose</td>
<td></td>
<td>No. 900034430</td>
</tr>
<tr>
<td>7 Silencer</td>
<td></td>
<td>No. 29560000</td>
</tr>
<tr>
<td>8 Castors, for SILENT TS/TS2, 4 pieces</td>
<td></td>
<td>No. 29210001</td>
</tr>
<tr>
<td>9 Adapter for external exhaust air duct, for SILENT TS/TS2</td>
<td></td>
<td>No. 29210004</td>
</tr>
</tbody>
</table>

Tip!
We recommend aligning the silencer vertically to obtain the full performance of noise reduction.
Extractor clamp

With this practical accessory your dental lab work station can be subsequently fitted with an extractor unit.

**Advantages**
- Robust clamp made of beech wood.
- Secure fixture to work tables of 20–40 mm thickness.
- Variable and individual connection for extraction hose on the right or on the left (fitting 40 mm / 1.58”).

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extractor clamp (without glass shield)</td>
<td>No. 2925 0000</td>
</tr>
<tr>
<td>Glass shield with holder</td>
<td>No. 2925 1000</td>
</tr>
</tbody>
</table>

Grinding box

Acrylic grinding box with built-in magnifying glass.

**Advantages**
- Prevents ground dust from spreading.
- Very easy and particularly flexible to use.
- Optimal control of the piece of work with integrated 2x magnifying glass.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grinding box</td>
<td>No. 2625 0000</td>
</tr>
</tbody>
</table>

Extractor Switch

For connecting 2 dust producing devices to Renfert extraction units.

**Advantages**
- Via selection switch individually adjustable to one or two extraction openings.
- Tool free and fast connection.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extractor Switch incl. 4 mufflers (without hose) Ø suction fittings, interior/exterior 35 mm / 40 mm (1.38” / 1.57”)</td>
<td>No. 2926 0000</td>
</tr>
<tr>
<td>Ø muffler interior/exterior 38 mm / 46 mm (1.50” / 1.81”)</td>
<td>No. 2921 0003</td>
</tr>
<tr>
<td>End bushings set, 2 pieces</td>
<td>No. 9003 4240</td>
</tr>
<tr>
<td>Suction hose, 3 m (incl. 2 mufflers)</td>
<td>No. 90115 0823</td>
</tr>
<tr>
<td>Suction hose, 6 m</td>
<td>No. 9021 50823</td>
</tr>
<tr>
<td>Suction hose, 9 m</td>
<td>No. 9021 50823</td>
</tr>
</tbody>
</table>

H/Hepa Fine Filter

Even greater safety provided by a filtration efficiency of 99.995 %.

**Advantages**
- Toolless, quick change of the filter.
- Available for SILENT TS, SILENT TS2 and Vortex compact 3L.
- Each filter is delivered with an individual certificate (tested according to DIN EN/IEC 60335-2-69 A.3/AA.22.201.2 and EN 1822-5 Hepa Filters / MIL-STD 282 Type: C).

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>H+Hepa filter SILENT TS/TS2, set</td>
<td>No. 9003 4410</td>
</tr>
<tr>
<td>H+Hepa filter Vortex compact 3L, 1 piece</td>
<td>No. 9003 4420</td>
</tr>
</tbody>
</table>
Vario jet
Recyclable sandblaster

The Vario jet is the ideal recycling sandblaster for economic sandblasting. It can be operated in both automatic and manual modes.

Advantages
- Exact coordination of the essential sandblasting parameters (pressure, time, grit size).
- Intelligent extraction system: only unusable fine dust is extracted.
- High degree of freedom of movement due to easily removable sandblasting basket.

Details
- Intuitive operating logic.
- Program selection via a membrane keypad.
- Blasting pressure can be set from 1–6 bar (14.5–87 psi).
- Manometer pressure display.
- Automatic control of an external extraction with controlled shut-off delay between 5 and 30 sec.
- Inlet opening and connection possibility for a compressed-air-driven unit (microblaster, pneumatic deflasking chisel, outlet nozzle).
- Highly resistant, coated glass panel.
- Cotton-coated protective gloves.

“With only 4 CrCo frameworks per day Vario jet pays for itself very quickly thanks to 50% saving in abrasives and time.”

Christian Pilz
Product Management, Dental Technician

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>100–120 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>30 W</td>
</tr>
<tr>
<td>Max. power consumption of external dust extractor</td>
<td>1200 W</td>
</tr>
<tr>
<td>Working pressure</td>
<td>1–6 bar (14.5–87 psi)</td>
</tr>
<tr>
<td>Max. connection pressure</td>
<td>10 bar (145 psi)</td>
</tr>
<tr>
<td>Air consumption</td>
<td>200 l/min at 6 bar (7.06 cfm at 87 psi)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>405 x 650 x 460 mm (15.9 x 25.6 x 18.1”)</td>
</tr>
<tr>
<td>Blasting chamber volume</td>
<td>25 l (6.6 gal)</td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>26 kg (57.3 lbs)</td>
</tr>
</tbody>
</table>

Ordering information

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage Range</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>Vario jet</td>
<td>220–240 V</td>
<td>2961 0000</td>
</tr>
<tr>
<td>Vario jet</td>
<td>100–120 V</td>
<td>2961 1000</td>
</tr>
</tbody>
</table>

Suitable accessories
Cobra aluminum oxide  90–125 µm and 250 µm ➔ Page 58

Further information
www.renfert.com/P139
The intelligent extraction system
50% saving in abrasive consumption. The extraction channels have been designed, so that only unusable fine dust is removed.

The nozzle
can be positioned in three different distances from the blasting basket. It is made from highly resistant boron carbide. The distance and angle of the nozzle to the casting is determined by the rotational direction of the basket, so that 100% blasting efficiency is achieved in minimal time.

The blasting basket
rotates with a special geometry. Up to 7 CrCo castings can be sandblasted simultaneously. On average a framework is sandblasted fully automatically in only 10 minutes. A rubber basket insert protects the frameworks and baskets. The blasting basket can be easily removed in only one step (for manual sandblasting).
Vario basic
Recyclable and fine sandblasting unit

The compact combination of recycling sandblaster and microblaster. A cost-effective, multifunctional solution for all relevant sandblasting work in the dental laboratory.

Advantages
- Can be upgraded with 1 to 4 microblasting tanks.
- 50% less abrasive consumption due to intelligent extraction system (only unusable fine dust is removed).
- PerfectView: Innovative LED Technology for best contour and detail recognition.

Details
- Individually adjustable recycling nozzle with the integrated Venturi principle and efficient sandblasting.
- Highly resistant coated glass panel.
- Replaceable, washable cuffs.
- Powder-coated metal housing.
- Internal tank selection switch for each microblaster tank, recycling sandblast operation or choice of an external compressed air unit.
- IT-Handpiece with exchangeable nozzles.
- Filter control with manual water separator for cleaning the supplied compressed air.
- Highly resistant boron carbide nozzle optionally available.
- Inlet opening and connection for a compressed air driven unit (e.g. deflasking chisel).

“We use high-performance compressed air filters in our test laboratory for clean, oil- and water-free compressed air. This considerably reduces the maintenance costs.”

Christian Pilz
Product Management, Dental Technician

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Working pressure</td>
<td>1–6 bar (14.5–87 psi)</td>
</tr>
<tr>
<td>Max. connection pressure</td>
<td>10 bar (145 psi)</td>
</tr>
<tr>
<td>Air consumption</td>
<td>200 l/min at 6 bar (7.06 cfm at 87 psi)</td>
</tr>
<tr>
<td>Intensity of lighting</td>
<td>4800 Lux</td>
</tr>
<tr>
<td>Lamp power</td>
<td>16 W</td>
</tr>
<tr>
<td>Dimensions (W x H x D) 0–2 tank version</td>
<td>380 x 540 x 450 mm (15.0 x 21.3 x 17.7&quot;)</td>
</tr>
<tr>
<td>Dimensions (W x H x D) 3–4 tank version</td>
<td>380 x 540 x 540 mm (15.0 x 21.3 x 21.3&quot;)</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>1000 ml (34 fl. oz.)</td>
</tr>
<tr>
<td>Blasting chamber volume</td>
<td>23 l (6.1 gal)</td>
</tr>
<tr>
<td>Weight (empty) without additional tanks</td>
<td>14 kg (31 lbs)</td>
</tr>
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Ordering information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2960 0005</td>
<td>Vario basic base unit without blasting tanks, 220–240 V</td>
<td></td>
</tr>
<tr>
<td>2960 1005</td>
<td>Vario basic base unit without blasting tanks, 100–120 V</td>
<td></td>
</tr>
<tr>
<td>2954 0050</td>
<td>Additional tank right, incl. sandblasting nozzle 0.8 mm, 25–70 µm</td>
<td></td>
</tr>
<tr>
<td>2954 0051</td>
<td>Additional tank left, incl. sandblasting nozzle 0.8 mm, 25–70 µm</td>
<td></td>
</tr>
<tr>
<td>2954 0250</td>
<td>Additional tank right, incl. sandblasting nozzle 1.2 mm, 70–250 µm</td>
<td></td>
</tr>
<tr>
<td>2954 0251</td>
<td>Additional tank left, incl. sandblasting nozzle 1.2 mm, 70–250 µm</td>
<td></td>
</tr>
<tr>
<td>2960 0001</td>
<td>Wall bracket incl. 90° angled connector</td>
<td></td>
</tr>
<tr>
<td>2960 0002</td>
<td>90° angled connector</td>
<td></td>
</tr>
<tr>
<td>2960 0003</td>
<td>Protective grate for viewing screen</td>
<td></td>
</tr>
<tr>
<td>90003 5520</td>
<td>Boron carbide nozzle</td>
<td></td>
</tr>
</tbody>
</table>

Can be used as a wall-mounted or bench unit
Optional, the Vario basic (with only two blasting tanks) can be easily fixed in position using an easy to assemble wall mounting.

Suitable accessories
High-performance compressed air filters → Page 57

Further information

www.renfert.com/P138
The microblaster tanks (optional) hold approx. 1,000 ml of abrasives. They can be very easily extended without tools in a few steps via a quick-coupling and color-coded system.

The sand silo
A removable large particle separator prevents contamination of the abrasive. The large, funnel-shaped silo ensures permanent sand supply. The unit can be emptied via an opening in the silo floor.
Perfect view for perfect work.

→ Basic microblasters

To ensure that microblasting is easy requires a nozzle with exact focus and an ergonomic handle. Really optimum blasting depends on whether you can clearly see what you are work on. A perfect view is the key to the greatest possible accuracy – wherever and whenever you need it.
making work easy
Sandblasters that provide an optimum view and freedom of movement

The Basic units make sandblasting easier by providing a uniquely good view of the operator’s hands and highly focused precision.

This is what makes work easier

1. drastic reduction of abrasive consumption
2. constant abrasive flow
3. bright blasting chamber throughout (4800 Lux)
4. extremely precise nozzle
5. large viewing panel

perfect view  compact   tool included   easy use

Renfert

WORKFLOW GUARANTEE
3 year guarantee
10 year spare parts service
Activity guarantee
Minimize costs long-term
Independent tests of different microblasters have shown that significantly less abrasive is used with Renfert microblasters thanks to the unique mixing chamber technology and minimum to no post sandblasting. This reduces your sandblasting costs by up to 80%.

See brightly and clearly
Producing optimum work requires a perfect view of the object. Thanks to a brightly illuminated blasting chamber with special daylight LED throughout (4800 Lux) greater contrasts and clearer differences can be seen on the illuminated object. The ideal balance between diffuse and directed light ensures the best contour and detail recognition. Ergonomic hose routing guarantees clear viewing conditions and the color-coded system on the tank lids, the tank positioning, handpieces and tank selection switch make the unit very easy to operate.

Ensure quality with precision
The uniformity of abrasive flow, abrasive power and jet pattern is essential. The special nozzle geometry and mixing chamber technology enable highly focused sandblasting. This allows you to achieve uniform, reproducible surface conditioning ensuring perfect bonding properties – and therefore visibly higher quality.

Overview Sandblasters

<table>
<thead>
<tr>
<th>Feature</th>
<th>Basic eco</th>
<th>Basic classic</th>
<th>Basic master</th>
<th>Basic quattro</th>
<th>Basic quattro IS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of tanks</td>
<td>1–2</td>
<td>1–2</td>
<td>2</td>
<td>2–4</td>
<td>2–4</td>
</tr>
<tr>
<td>Blasting chamber volumes</td>
<td>10l</td>
<td>14l</td>
<td>20l</td>
<td>20l</td>
<td>20l</td>
</tr>
<tr>
<td>Blow-out nozzle</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Immediate stop function</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✔</td>
</tr>
<tr>
<td>Individual pressure setting</td>
<td>–</td>
<td>–</td>
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<td>–</td>
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<tr>
<td>Silicone-coated glass per tank</td>
<td>–</td>
<td>optional</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
Basic quattro IS
Fine sandblasting unit with 2–4 tanks

Professional, comfortable sandblasting unit with 2 to 4 tanks. Provides precision & processing safety for every procedure.

Advantages
- Controlled and exact sandblasting of finely detailed objects thanks to integrated quick stop technology ‘IS’ (Immediate Stop) enabling start/stop within seconds of the sandblasting process.
- Precise and reliable processing at best possible cost effectiveness with the special mixing chamber technology.
- Quick and safe operation due to exact pressure adjustment and control of actual pressure for every tank.
- Large sandblasting chamber (20 l) allows maximum freedom of movement.

Making work easy
The unique mixing chamber provides an optimal air/abrasive mixture for the most efficient blasting process assuring that very little blasting media goes to waste.

Moreover, the unit is particularly suitable for the extremely delicate fissure blasting thanks to the Immediate Stop Function.

Technical data
Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
Working pressure 1–6 bar (14.5–87 psi)
Max. connection pressure 8 bar (116 psi)
Air consumption 98 l/min at 6 bar (3.46 cfm at 87 psi)
Intensity of lighting 4800 Lux
Lamp power 16 W
Dimensions (W x H x D) 1–2 tank version 395 x 320 x 510 mm (15.6 x 12.6 x 20.1")
Dimensions (W x H x D) 3–4 tank version 395 x 320 x 610 mm (15.6 x 12.6 x 24.0")
Tank capacity 1000 ml (34 fl. oz.)
Number of tanks 2–4
Blasting chamber volume 20 l (5.3 gal)
Weight (empty) 2-tank version 11.5 kg (25.4 lbs)

Ordering information
Basic quattro IS, 220–240 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm No. 2959 0000
Basic quattro IS, 100–120 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm No. 2959 1000
Additional tank, incl. nozzle 0.8 mm, 25–70 µm No. 2959 0050
Additional tank, incl. nozzle 1.2 mm, 70–250 µm No. 2959 0250

Suitable accessories
Large selection of sandblasting nozzles ➔ Page 56
High performance compressed air filter ➔ Page 56
Abrasives ➔ Page 58

#RenfertBlog
“Sandblasted and not layered” by Oliver Brix ➔ blog.renfert.com

Further information
www.renfert.com/P129
Unique
The manometers mounted in the tank lid provide information about the actual pressure at the nozzle and not about the static pressure in the tank. The desired pressure can be individually regulated on each tank.

Integrated Immediate Stop Technique (Immediate Stop)
The foot switch controls the pneumatic valves. This allows the blasting process to begin or end instantly. The control system allows a very precise dosage of blasting material and prevents posterior sandblasting at the same time (savings on blasting material).

The Immediate Stop function enables focused sandblasting for e.g. devesting delicate restorations (all porcelain/pressable ceramics, inlays, telescope units, thin crown margins), sandblasting fissures, treatment of precision attachments as well as surface conditioning on alloys and porcelain.

The exact control over pressure
After switching on the unit the blasting tanks are permanently under pressure. On switching off the unit the tanks remain under pressure for several hours so the pressure does not need to be continuously regained. This means the adjustable pressure for each tank is ready for use immediately on starting the blasting process and also after short interruptions.

Tank selector switch and pressure regulator
Individual tanks and pressure adjustment can be comfortably selected from within the blasting chamber.

Tank upgrade
Easy tank upgrade, tool-free due to the quick connection and color-coded system.

Foot switch
Foot switch can be activated from any position (360°).
Basic quattro
Fine sandblasting unit with 2–4 tanks

Convenient, flexible premium class microblaster with 2–4 tanks.

Advantages
- Very easy, toolless tank extension via quick-release coupling and colour-coded system.
- Precise blasting with the special mixing chamber technology (Venturi principle).
- Easy hand and framework cleaning using the integrated blow-out nozzle.

Details
- The Basic quattro enables several applications simultaneously in a compact space, e.g. surface conditioning, devesting and preparation of metal frameworks for oxide firing.
- The Basic quattro can be quickly retrofitted in the lab with up to four tanks, with e.g. the following arrangement: 50 µm Cobra, 50 µm Rolloblast, 90–125 µm Cobra and 250 µm Cobra.
- Abrasive chamber volume: 20 l.

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Working pressure</td>
<td>1–8 bar (14.5–116 psi)</td>
</tr>
<tr>
<td>Max. connection pressure</td>
<td>8 bar (116 psi)</td>
</tr>
<tr>
<td>Air consumption</td>
<td>98 l/min at 6 bar (3.46 cfm at 87 psi)</td>
</tr>
<tr>
<td>Intensity of lighting</td>
<td>4800 Lux</td>
</tr>
<tr>
<td>Lamp power</td>
<td>16 W</td>
</tr>
<tr>
<td>Dimensions (W x H x D) 1–2 tank version</td>
<td>395 x 285 x 460 mm (15.6 x 11.2 x 18.1&quot;)</td>
</tr>
<tr>
<td>Dimensions (W x H x D) 3–4 tank version</td>
<td>395 x 285 x 560 mm (15.6 x 11.2 x 22.0&quot;)</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>1000 ml (34 fl. oz.)</td>
</tr>
<tr>
<td>Number of tanks</td>
<td>2–4</td>
</tr>
<tr>
<td>Blasting chamber volume</td>
<td>20 l (5.3 gal)</td>
</tr>
<tr>
<td>Weight (empty) 2-tank version</td>
<td>8.9 kg (19.6 lbs)</td>
</tr>
</tbody>
</table>

Ordering information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic quattro, 220–240 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm</td>
<td>No. 29580000</td>
</tr>
<tr>
<td>Basic quattro, 100–120 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm</td>
<td>No. 29581000</td>
</tr>
<tr>
<td>Additional tank, incl. nozzle 0.8 mm, 25–70 µm</td>
<td>No. 29580050</td>
</tr>
<tr>
<td>Additional tank, incl. nozzle 1.2 mm, 70–250 µm</td>
<td>No. 29580250</td>
</tr>
</tbody>
</table>

Suitable accessories

Large selection of sandblasting nozzles → Page 56
High performance compressed air filter → Page 57
Abrasives → Page 58

HowTo–Video
Tank assembly in only a few stages.
www.youtu.be/ex2H2QwLww

Further information
www.renfert.com/P126
Basic master

Fine sandblasting unit with 2 tanks

The Basic master microblaster is a genuine space-saver and provides great freedom of movement. The unit is equipped with 2 tanks.

Technical data

Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
Working pressure 1–8 bar (14.5–116 psi)
Max. connection pressure 8 bar (116 psi)
Air consumption 98 l/min at 6 bar (3.46 cfm at 87 psi)
Intensity of lighting 4800 Lux
Lamp power 16 W
Dimensions (W x H x D) 395 x 285 x 460 mm (15.6 x 11.2 x 18.1")
Tank capacity 1000 ml (34 fl. oz.)
Number of tanks 2
Blasting chamber volume 20 l (5.3 gal)
Weight (empty) 2-tank version 8.1 kg (17.9 lbs)

Ordering information

Basic master, 220–240 V, 2 x 25–70 µm, incl. 2 nozzles 0.8 mm  No. 2948 2000
Basic master, 220–240 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm  No. 2948 2025
Basic master, 220–240 V, 2 x 70–250 µm, incl. 2 nozzles 1.2 mm  No. 2948 2250
Basic master, 100–120 V, 2 x 25–70 µm, incl. 2 nozzles 0.8 mm  No. 2948 4000
Basic master, 100–120 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm  No. 2948 4025
Basic master, 100–120 V, 2 x 70–250 µm, incl. 2 nozzles 1.2 mm  No. 2948 4250

Suitable accessories

Large selection of sandblasting nozzles → Page 56
High performance compressed air filter → Page 56
Abrasives → Page 58

Further information

www.renfert.com/P124

Tip – Cold siliconizing in the sandblasting unit

3M Espe recommends exclusive use of the Basic series of Renfert sandblasting units with Rocatec™. The advantage: the coverage is absolutely uniform using the prescribed impact energy.

Advantages

- Precise blasting with the special mixing chamber technology (Venturi principle).
- Large volume blasting chamber provides maximum freedom of movement.
- Ventilation slots ensure optimal ventilation of the blasting chamber and a clear view (PerfectView-Concept).

Details

- The many extras in terms of ergonomics, ventilation and durability optimise continuous operation of the unit.
- There are also two abrasive tanks for all the standard requirements in dental technology, e.g. precious metal and ceramic with abrasives from 25–70 µm and 70–250 µm.
- Abrasive chamber volume: 20 l.
Basic classic
Fine sandblasting unit with 1–2 tanks

Basic classic is the low-priced entry to professional microblasting technology; a compact unit in the basic version with up to 2 tanks.

Advantages
- Precise blasting with the special mixing chamber technology (Venturi principle).
- Can be extended to 2 tanks without the use of tools.
- Efficient working thanks to the tank selection switch inside the sandblasting chamber.

Details
- Its slim design ensures that it can be operated in the smallest space.
- The two abrasive tanks cover the usual requirements in dental technology, e.g. precious metal and ceramic with abrasive from 25–70 µm and 70–250 µm.
- Abrasive chamber volume: 14 l.

Technical data
- Permissible mains voltage / frequency: 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
- Working pressure: 1–8 bar (14,5–116 psi)
- Max. connection pressure: 8 bar (116 psi)
- Air consumption: 98 l/min at 6 bar (3.46 cfm at 87 psi)
- Intensity of lighting: 4800 Lux
- Lamp power: 16 W
- Dimensions (W x H x D): 355 x 270 x 415 mm (14.0 x 10.6 x 16.3")
- Tank capacity: 1000 ml (34 fl. oz.)
- Number of tanks: 1–2
- Blasting chamber volume: 14 l (3.7 gal)
- Weight (empty): 1-tank: 5.4 kg (11.9 lbs)
- Weight (empty): 2-tanks: 6.5 kg (14.3 lbs)

Ordering information
- Basic classic, 220–240 V, 1 x 25–70 µm, incl. nozzle 0.8 mm: No. 2947 1050
- Basic classic, 220–240 V, 1 x 70–250 µm, incl. nozzle 1.2 mm: No. 2947 1250
- Basic classic, 220–240 V, 2 x 25–70 µm, incl. 2 nozzles 0.8 mm: No. 2947 2000
- Basic classic, 220–240 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm: No. 2947 2025
- Basic classic, 220–240 V, 2 x 70–250 µm, incl. 2 nozzles 1.2 mm: No. 2947 2250
- Basic classic, 100–120 V, 1 x 25–70 µm, incl. nozzle 0.8 mm: No. 2947 3050
- Basic classic, 100–120 V, 1 x 70–250 µm, incl. nozzle 1.2 mm: No. 2947 3250
- Basic classic, 100–120 V, 2 x 25–70 µm, incl. 2 nozzles 0.8 mm: No. 2947 4000
- Basic classic, 100–120 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm: No. 2947 4025
- Basic classic, 100–120 V, 2 x 70–250 µm, incl. 2 nozzles 1.2 mm: No. 2947 4250
- Retrofit tank, 25–70 µm, incl. nozzle 0.8 mm: No. 2947 0050
- Retrofit tank, 70–250 µm, incl. nozzle 1.2 mm: No. 2947 0250

Suitable accessories
Large selection of sandblasting nozzles → Page 56
High performance compressed air filter → Page 57
Abrasives → Page 58

Further information
www.renfert.com/P131
Basic eco

Fine sandblasting unit with 1–2 tanks

The Basic eco microblaster with up to two tanks offers high precision in a minimum space thanks to its compact dimensions. Top blasting technology and an attractive price-performance ratio combine to provide an ideal product for first-time users and laboratories where space is at a premium.

Technical data

Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 120 V, 50/60 Hz
Working pressure 1–6 bar (14.5–87 psi)
Max. connection pressure 6 bar (87 psi)
Air consumption 98 l/min at 6 bar (3.46 cfm at 87 psi)
Intensity of lighting 4800 Lux
Lamp power 9 W
Dimensions (W x H x D) 350 x 275 x 400 mm (13.8 x 10.8 x 15.7”)
Tank capacity 1000 ml (34 fl. oz.)
Number of tanks 1–2
Blasting chamber volume 10 l (2.64 gal)
Weight (empty) 1-tank 4.4 kg (9.7 lbs)
Weight (empty) 2-tanks 5.5 kg (12.1 lbs)

Ordering information

Basic eco, 220–240 V, 1 x 25–70 µm, incl. nozzle 0.8 mm No. 2949 1050
Basic eco, 220–240 V, 1 x 70–250 µm, incl. nozzle 1.2 mm No. 2949 1250
Basic eco, 220–240 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm No. 2949 2025
Basic eco, 120 V, 1 x 25–70 µm, incl. nozzle 0.8 mm No. 2949 3050
Basic eco, 120 V, 1 x 70–250 µm, incl. nozzle 1.2 mm No. 2949 3250
Basic eco, 120 V, 1 x 25–70 µm, 1 x 70–250 µm, incl. 2 nozzles 0.8 mm / 1.2 mm No. 2949 4025
Retrofit tank, 25–70 µm, incl. nozzle 0.8 mm No. 2947 0050
Retrofit tank, 70–250 µm, incl. nozzle 1.2 mm No. 2947 0250

Advantages

- Maximum field of vision thanks to a large viewing panel with innovative LED lighting.
- Process reliability based on many years of experience in dental sandblasting technology.
- Savings in abrasives by using optimal air-abrasive mixture.

Details

- Uniform flow of abrasive guarantees homogeneous surface conditioning.
- Reduction in operating costs thanks to very low abrasive consumption.
- Efficient operation due to placement of the tank selection switch on the inside of the blasting chamber.
- Tank extension and connection of pressure hoses can be performed using the color-coded system in-house by any personnel.
- Longer service life of the IT nozzles made from special tungsten carbide.
- Blasting chamber volume: 10 l.
Renfert blasting technology has been reduced to a basic design in the Basic mobil sandblasters. Mobile use only requires connection to the compressed air.

**Advantages**

- Ideal use with existing abrasive chamber.
- Control using pneumatic foot switch.
- Individual blasting pressure of 1–6 bar. Pressure display via manometer.

**Technical data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working pressure</td>
<td>1–6 bar (14.5–87 psi)</td>
</tr>
<tr>
<td>Max. connection pressure</td>
<td>8 bar (116 psi)</td>
</tr>
<tr>
<td>Air consumption</td>
<td>120 l/min at 6 bar (4.24 cfm at 87 psi)</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>1000 ml (34 fl.oz.)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>220 x 260 x 130 mm (8.7 x 10.2 x 5.1&quot;)</td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>~2.5 kg (5.5 lbs)</td>
</tr>
</tbody>
</table>

**Ordering information**

Basic mobil with foot switch, 25–70 µm, incl. nozzle 0.8 mm No. 2914 3050
Basic mobil with foot switch, 70–250 µm, ncl. nozzle 1.2 mm No. 2914 3250

The quality and speed for sandblasting castings depend on the combination of abrasive agent and sandblasting nozzle as well as on use of the optimum sandblasting technique.

**Advantages**

- Service life of nozzles is four times longer than that of standard nozzles, as they are made of a highly resistant high-tech material.
- Excellent control and focusing of the abrasive agent due to the extended shape of the nozzle.
- Optimum sandblasting nozzles for all applications.

**Ordering information**

Sandblasting nozzles

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Cobra (µm)</th>
<th>Rollblast (µm)</th>
<th>Rocatec Pre &amp; Plus</th>
<th>3M Espe Soft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 0.40 mm</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø 0.60 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 0.80 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 1.00 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 1.20 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 1.40 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 2.00 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ø 1.5 x 3.5 mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

✓ highly recommended  ✓ recommended
Optional tanks
Additional tanks for Basic units

Tank assembly in only a few steps.

Advantages
- Tool-free tank extension via quick-release coupling and color-coded system.
- Individual design of the tank for 25–70 µm or 70–250 µm abrasives.
- Transparent tank for checking the filling level.

Making work easy
Tank assembly in only a few stages.
www.youtu.be/ybUKitnDUyU

High performance compressed air filter

No more problems in compressed air supply systems due to condensation water, oil, color residue or rust particles from compressors. The compressed air filter prevents clumping of the sandblasting abrasive and blockage of the fine channels of compressed air units.

Advantages
- Three-step filter system: Prefilter, fine filter and active carbon filter.
- Three users can be connected to one filter.
- All filters can be easily exchanged.

Technical data
Working pressure max 10 bar (145 psi)
Air quality ISO 8573-1, Class 1.7.1
Flow rate / minute 420 l (14.8 cfm) / 6.3 bar (91 psi)
Dimensions 210 x 280 mm (8.3 x 11.0")

Ordering information
Compressed air filter incl. connection set and filter inserts No. 29400000

Ordering information
Additional tank right, 25–70 µm, incl. sandblasting nozzle 0.8 mm, Vario basic No. 29540050
Additional tank left, 25–70 µm, incl. sandblasting nozzle 0.8 mm, Vario basic No. 29540051
Additional tank right, 70–250 µm, incl. sandblasting nozzle 1.2 mm, Vario basic No. 29540250
Additional tank left, 70–250 µm, incl. sandblasting nozzle 1.2 mm, Vario basic No. 29540251
Additional tank, 25–70 µm, incl. nozzle 0.8 mm, Basic quattro IS No. 29590050
Additional tank, 70–250 µm, incl. nozzle 1.2 mm, Basic quattro IS No. 29590250
Additional tank, 25–70 µm, incl. nozzle 0.8 mm, Basic quattro No. 29580050
Additional tank, 70–250 µm, incl. nozzle 1.2 mm, Basic quattro No. 29580250
Retrofit tank, 25–70 µm, incl. nozzle 0.8 mm, Basic classic No. 29470050
Retrofit tank, 70–250 µm, incl. nozzle 1.2 mm, Basic classic No. 29470250
Cobra & Rolloblast
Sandblasting material

Renfert abrasives are supplied in acrylic canisters or buckets to preserve their high quality. The hermetic seals on these containers prevent any humidity entering. The 5 kg canisters are easy to handle. The abrasive can be comfortably poured into the module.

**Cobra**
This abrasive contains one of the hardest materials: aluminium oxide (Al₂O₃).

**Advantages**
- Extremely sharp-edged.
- Low to very high abrasive effect dependant on size.
- Extremely pure – approx. 99.7% Al₂O₃.

**Rolloblast**
Non-abrasive glass beads for smoothing and condensing of surfaces.

**Advantages**
- Guarantees silky matt surface with no light reflection.
- For the finest surface treatment of precious and non-precious metal alloys.
- Does not cause silicosis.

**Ordering information**

<table>
<thead>
<tr>
<th>Grain Size</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobra 25 µm, white</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15941105</td>
</tr>
<tr>
<td>Cobra 50 µm, white</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15941205</td>
</tr>
<tr>
<td>Cobra 50 µm, white</td>
<td>20 kg bucket (44.16 lbs.)</td>
<td>No. 15942220</td>
</tr>
<tr>
<td>Cobra 90 µm, white</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15841005</td>
</tr>
<tr>
<td>Cobra 110 µm, white</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15831005</td>
</tr>
<tr>
<td>Cobra 110 µm, white</td>
<td>20 kg bucket (44.16 lbs.)</td>
<td>No. 15831020</td>
</tr>
<tr>
<td>Cobra 125 µm, pink</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15871005</td>
</tr>
<tr>
<td>Cobra 125 µm, pink</td>
<td>20 kg bucket (44.16 lbs.)</td>
<td>No. 15871020</td>
</tr>
<tr>
<td>Cobra 250 µm, white</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15851005</td>
</tr>
<tr>
<td>Cobra 250 µm, white</td>
<td>20 kg bucket (44.16 lbs.)</td>
<td>No. 15851020</td>
</tr>
<tr>
<td>Rolloblast 50 µm</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15941305</td>
</tr>
<tr>
<td>Rolloblast 50 µm</td>
<td>12.5 kg canister (27.6 lbs.)</td>
<td>No. 15942312</td>
</tr>
<tr>
<td>Rolloblast 100 µm</td>
<td>5 kg canister (11.04 lbs.)</td>
<td>No. 15891005</td>
</tr>
</tbody>
</table>

**Grain size**

- **Cobra 25 µm** (450 mesh)
- **Cobra 50 µm** (270 mesh)
- **Cobra 90–125 µm** (200–115 mesh)
- **Cobra 250 µm** (60 mesh)
- **Rolloblast 50 µm** (400–200 mesh)
- **Rolloblast 100 µm** (170–100 mesh)
Stresses in bridges, cracks in acrylic dentures and splintered teeth are things of the past. Laboratory-fabricated restorations are gently, easily and quickly deflasked using the Power pillo and Pillo pneumatic chisels.

**Advantages**
- Save time and money with powerful and gentle devesting of sensitive restorations (castings, dentures).
- Absolutely maintenance-free due to special oil-free mechanism.
- Maximum health protection provided by minimal transmission of vibration to the joints.

**Features**
The Power pillo delivers a higher performance, smoother running and a quick-release coupling connection.

**Details**
- Infinitely variable power setting.
- Four different tungsten carbide chisel inserts are optionally available.
- The ergonomic form provides an optimum, reliable grip and a high degree of working comfort.
Perfect mixing. Every time.

→ Twister mixing technology
Vacuum mixers creating the basis for perfect results

Achieve optimum mixing of homogeneous, bubble-free dental plasters, investments, alginites and silicones in just a few steps with Twister mixing units.

This is what makes work easier

1. very homogeneous mixing
2. clear display
3. convenient one-hand operation
4. large selection of bowls
5. flexible installation (wall or bench unit)

Achieve homogeneous results

The all-round, optimized vacuum technology provides homogeneous mixing as the basis for perfect restorations. Whether vacuum build-up via membrane pump or compressed air: both versions build up the required vacuum with impressive speed.

Relaxed, flexible working

Convenient one-hand operation, thanks to automatic bowl connection via the vacuum, and the large, bright and clear display which provide maximum operating comfort. The Twister mixers can be used as wall or bench units.

Mix any amount

A feature of all Twister units is the reproducibility of the results. This applies in particular to the evolution models. With over 100 programs the individual, optimum mixing parameters can be called up again and again using a simple press of a button.

Malek Misrabi
Master Dental Technician

Overview Mixing technology

<table>
<thead>
<tr>
<th>Membrane pump</th>
<th>Twister evolution</th>
<th>Twister evolution venturi</th>
<th>Twister venturi</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>–</td>
<td>✔</td>
<td>–</td>
</tr>
<tr>
<td>Venturi (compressed air)</td>
<td>–</td>
<td>✔</td>
<td>–</td>
</tr>
<tr>
<td>Programmable</td>
<td>✔</td>
<td>✔</td>
<td>–</td>
</tr>
</tbody>
</table>
Twister evolution
Twister evolution venturi

Vacuum mixing units

Twister evolution und Twister evolution venturi embody mixing technology without compromises. Operation is intuitive and the reproducibility at the press of a button meets every requirement.

Advantages
- The high torque of the mixing motor ensures reliable processing of large amounts of mixing material.
- Intuitive programming and operation using a large, highly luminous display.
- The vacuum, which can be regulated from 70% to 100%, prevents bubbles with certain plasters and duplicating silicones.

Features
The units have the same functions. The only difference is in the vacuum generating technology. While the Twister evolution operates using a motor pump, the Twister evolution venturi produces the vacuum with the aid of compressed air.

Technical data – Twister evolution

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>100–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>180 VA</td>
</tr>
<tr>
<td>Vacuum pump capacity</td>
<td>16 l/min (0.56 cfm)</td>
</tr>
<tr>
<td>Max. vacuum / Bowl pressure abs.</td>
<td>≈ -890 mbar / ≈ 80 mbar (-12.9 psi / 1.16 psi)</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>100–450 1/min</td>
</tr>
<tr>
<td>Vacuum reduction</td>
<td>70–100 %</td>
</tr>
<tr>
<td>Dimensions (W x H x D) wall unit</td>
<td>152 x 285 x 235 mm (6.0 x 11.2 x 9.3&quot;)</td>
</tr>
<tr>
<td>Dimensions (W x H x D) with stand</td>
<td>230 x 640 x 295 mm (9.0 x 25.2 x 11.6&quot;)</td>
</tr>
<tr>
<td>Weight (without bowl)</td>
<td>5.2 kg (11.5 lbs)</td>
</tr>
</tbody>
</table>

Technical data – Twister evolution venturi

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>100–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>180 VA</td>
</tr>
<tr>
<td>Connection pressure</td>
<td>5–6.5 bar (72–94.3 psi)</td>
</tr>
<tr>
<td>Max. vacuum / Bowl pressure abs.</td>
<td>≈ -890 mbar / ≈ 80 mbar (-12.9 psi / 1.16 psi)</td>
</tr>
<tr>
<td>Vacuum reduction</td>
<td>80 % / 100 %</td>
</tr>
<tr>
<td>Air consumption, approx.</td>
<td>46 l/min (1.62 cfm)</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>100–450 1/min</td>
</tr>
<tr>
<td>Dimensions (W x H x D) wall unit</td>
<td>152 x 320 x 235 mm (6.0 x 12.6 x 9.3&quot;)</td>
</tr>
<tr>
<td>Dimensions (W x H x D) with stand</td>
<td>230 x 640 x 295 mm (9.0 x 25.2 x 11.6&quot;)</td>
</tr>
<tr>
<td>Weight (without bowl)</td>
<td>4.0 kg (8.8 lbs)</td>
</tr>
</tbody>
</table>

Ordering information

Twister evolution, 220–240 V, incl. 500 ml bowl and mixing paddle No. 1828 0000
Twister evolution, 100–120 V, incl. 500 ml bowl and mixing paddle No. 1828 1000
Twister evolution venturi, 220–240 V, incl. 500 ml bowl and mixing paddle No. 1829 0000
Twister evolution venturi, 100–120 V, incl. 500 ml bowl and mixing paddle No. 1829 1000

Suitable accessories
Mixing bowls and other accessories ➔ Page 66

Further information
www.renfert.com/P787
“An important advantage for the customer are the consistently homogeneous mixing results: the powerful motors of the Twister with a speed of 100–450 rpm. effortlessly maintain the set mixing speeds in any situation.”

Tilo Burgbacher, Design and Development

Main mixing cycle
The powerful motors of the Twister evolution effortlessly maintain the set mixing speed with any material, filling level and bowl size.

Reverse rotation
Dry agglomerates are broken up by the change of the paddle direction to ensure better wetting of the powder.

Post vacuum
The post vacuum of the Twister evolution reduces gas inclusions, which form later on the surface of the mixture.

Programmable
Units with the name “evolution” have over 100 custom programmable mixing programs.
- Quick processes.
- Standardized production process.
- User-friendly operation.

Prespatulation
The two prespatulation functions handle plaster and investment individually and prevent powder being thrown out of the mixing bowl. At the same time the mixing paddle “collects” powder from the top edges.

Prevacuum
Undesired reaction gases from investments are extracted by the prevacuum function before the main mixing time.
Twister
Twister venturi
Vacuum mixing units

Twister and Twister venturi are compact mixers with easy-to-use standard functions and powerful motor technology.

“"The Twister venturi utilizes the existing compressed air supply of the laboratory and therefore makes a vacuum pump unnecessary. Another advantage is that the unit is virtually maintenance-free and cost-effective."

Sabine König, Product Management

Advantages
- Optimized vacuum mixing technology produces homogeneous mixing results.
- Virtually maintenance-free components.
- Automatic bowl coupling enables convenient single-hand operation.

Features
The units generally all have the same functions. The only difference is in the technology for generating the vacuum. While the Twister operates using a motor pump, the Twister venturi produces the vacuum with the aid of compressed air.

**Technical data – Twister**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
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<tr>
<td>Power consumption</td>
<td>180 VA</td>
</tr>
<tr>
<td>Vacuum pump capacity</td>
<td>16 l/min (0.56 cfm)</td>
</tr>
<tr>
<td>Max. vacuum / Bowl pressure abs.</td>
<td>≈ -890 mbar / ≈ 80 mbar (-12.9 psi / 1.16 psi)</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>100–450 1/min</td>
</tr>
<tr>
<td>Vacuum reduction</td>
<td>70–100 %</td>
</tr>
<tr>
<td>Dimensions (W x H x D) wall unit</td>
<td>152 x 285 x 235 mm (6.0 x 11.2 x 9.3&quot;)</td>
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</tr>
<tr>
<td>Weight (without bowl)</td>
<td>5.2 kg (11.5 lbs)</td>
</tr>
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</table>

**Technical data – Twister venturi**

<table>
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<tr>
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<tbody>
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</tr>
<tr>
<td>Vacuum reduction</td>
<td>80 % / 100 %</td>
</tr>
<tr>
<td>Air consumption, approx</td>
<td>46 l/min (1.62 cfm)</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>100–450 1/min</td>
</tr>
<tr>
<td>Dimensions (W x H x D) wall unit</td>
<td>152 x 320 x 235 mm (6.0 x 12.6 x 9.3&quot;)</td>
</tr>
<tr>
<td>Dimensions (W x H x D) with stand</td>
<td>230 x 640 x 295 mm (9.0 x 25.2 x 11.6&quot;)</td>
</tr>
<tr>
<td>Weight (without bowl)</td>
<td>4.0 kg (8.8 lbs)</td>
</tr>
</tbody>
</table>

**Ordering information**

- **Twister**, 220–240 V, incl. 500 ml bowl and mixing paddle: No. 18260000
- **Twister**, 100–120 V, incl. 500 ml bowl and mixing paddle: No. 18261000
- **Twister venturi**, 220–240 V, incl. 500 ml bowl and mixing paddle: No. 18270000
- **Twister venturi**, 100–120 V, incl. 500 ml bowl and mixing paddle: No. 18271000

**Suitable accessories**
Mixing bowls and other accessories ➔ Page 66

**Further information**
www.renfert.com/P787
Direct manual control
All mixing parameters are entered easily and quickly.

Impressive motor power
The powerful motor guarantees homogeneous and bubble-free mixing with dental plasters, investments and silicones.

Vacuum level can be regulated
The vacuum level, which can be regulated between 70% (with Twister venturi 80%) and 100%, prevents boiling bubbles with certain plasters and duplicating silicones.

Universal use
The Twister units can be used for all the usual impression and model materials in dental technology.

Tip!
Mixing bowls contaminated with stubborn plaster residue can be effortlessly cleaned: simply add GO 2011 speed to the mixing bowl and allow to take effect according to the amount of plaster. The immediately activated bubble formation indicates the beginning of the cleaning process. Rinse the bowl briefly under water after cleaning with GO 2011 speed. Finished!
Mixing bowls
Well-designed paddle geometry for optimal, thorough mixing.

**Advantages**
- Marking indicates maximum filling capacity.
- Reservoir protects against unintentional over filling.
- Bowl made from high-strength polycarbonate.

![Mixing bowl image]

### Ordering information

<table>
<thead>
<tr>
<th></th>
<th>No. 65 ml</th>
<th>No. 200 ml</th>
<th>No. 500 ml</th>
<th>No. 700 ml</th>
<th>No. 1000 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing bowl</td>
<td>18206500</td>
<td>18200200</td>
<td>18200500</td>
<td>18200700</td>
<td>18201001</td>
</tr>
<tr>
<td>Mixing paddle</td>
<td>18206510</td>
<td>18200210</td>
<td>18200510</td>
<td>18200710</td>
<td>18201010</td>
</tr>
<tr>
<td>Mixing bowl</td>
<td>18206520</td>
<td>18200220</td>
<td>18200520</td>
<td>18200720</td>
<td>18201020</td>
</tr>
</tbody>
</table>

Alginate mixing bowl
Specially designed for the requirements of alginates.

**Advantages**
- Bubble-free material thanks to the specially contoured mixing paddle for alginate material.
- The special surface coating ensures easy cleaning.

![Alginate mixing bowl image]

### Ordering information

<table>
<thead>
<tr>
<th>Alginate mixing bowl</th>
<th>No. 18230500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alginate mixing paddle, 500 ml</td>
<td>No. 18230510</td>
</tr>
</tbody>
</table>

Mixing spatula
The mixing spatula for all bowls in the Twister range provides the optimum prespatulation tool, which is also used for scooping the mixed material completely out of the bowl.

**Advantages**
- Rounded edges protect the bowl.
- Length and stability also enable mixing of large quantities of material.

![Mixing spatula image]

### Ordering information

<table>
<thead>
<tr>
<th>Mixing spatula</th>
<th>No. 18210200</th>
</tr>
</thead>
</table>

Stand
This stand has been specially designed for all Twister versions.

**Advantages**
- Converts your Twister to a bench unit.
- Secure assembly in only a few steps.
- Flexibility and ergonomics.

![Stand image]

### Ordering information

<table>
<thead>
<tr>
<th>Stand</th>
<th>No. 18210102</th>
</tr>
</thead>
</table>
Vibrax

The wide-rangiing vibration spectrum optimally processes any material. The functionally sophisticated handling enables comfortable use even under difficult conditions.

Advantages
- Bubble-free flow behavior using two wave ranges with 4 levels of intensity.
- Low transfer of the vibrations to the workbench as the housing is oscillation decoupled.
- Long service life using maintenance-free vibration magnet.

Details
- Uncomplicated adaptation of the intensity via the large lever switch using only one finger.
- Extremely quiet, ensuring a comfortable working atmosphere.
- Time-saving due to quickly cleaned elements.
- Non-tip and extremely stable even when high pressure is applied to the edges.
- No springing of the impression tray thanks to the soft tray rest.

Optional accessory
Vibrating ball ensures uniform flow behavior during investing and pouring of impression trays.

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>230 V, 50 Hz, 220 V, 60 Hz, 120 V, 60 Hz, 100 V, 50 Hz, 100 V, 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>185 VA (230 V), 170 VA (120 V, 220 V), 190 VA (100 V)</td>
</tr>
<tr>
<td>Mains input fuse</td>
<td>2 x T1,6 A</td>
</tr>
<tr>
<td>Frequency at 230 V</td>
<td>100 Hz</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>275 x 140 x 220 mm (10.8 x 5.5 x 8.7&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>6.4 kg (14.1 lbs)</td>
</tr>
</tbody>
</table>

Ordering information

- **Vibrax**, 230 V, 50 Hz No. 1830 0000
- **Vibrax**, 120 V, 60 Hz No. 1830 1000
- **Vibrax**, 220 V, 60 Hz No. 1830 4000
- **Vibrax**, 100 V, 50 Hz No. 1830 2000
- **Vibrax**, 100 V, 60 Hz No. 1830 3000
- **Vibrating ball** No. 1830 0001

For further information, please see the Model casting manual www.renfert.com/P48
Trim easier.

→ MT Trimmer
Our trimmers provide greater power in the long-term

Not only the durability but also the power of Renfert trimmers is superior to that of other units, making them much more convenient to use.

This is what makes work easier

1. powerful motors
2. easily adjustable trimmer table
3. toolless detachable front door
4. compact design
5. non-corrosive housing

More comfortable working

The trimmer table is easily adjustable; depending on the design, it can be adjusted in two stages or infinitely. This allows you to quickly adjust it to the angle which suits you best.

Clean very easily

Trimmer table and spray hose are easily detachable and the innovative spray tube design as well as control of the amount of water guarantee optimum cleaning of the trimmer disc with minimum water consumption.

Utilize performance, with minimum effort

A powerful motor ensures maximum removal with minimum effort.

Performance and quietness:

Let the 6 minute video convince you that the trimmer can easily handle even the hardest dental stone.

WORKFLOW GUARANTEE

3 year guarantee
10 year spare parts service
Activity guarantee

making work easy for me means ...

... that the stable front can be completely removed and cleaned in a few steps using the quick-link mechanism.

Christian Pilz
Product Management
Dental Technician
MT3
Wet trimmer

The MT3 wet trimmer is impressive due to its exceptionally powerful motor. With the MT3 Renfert provides high-performance trimming at a low price.

Advantages
- Quick change of the trimmer table angle using the practical tipping mechanism (90°/98°).
- Safety: when the front door is opened a safety switch stops the motor and water.
- Uniform coverage by the optimally positioned spray tube prevents clogging of the trimmer disc.

Details
- A 10° inclination of the unit provides an optimum view of the model.
- Easy guidance of the plaster model with the aid of slotted angle lines on the trimmer table.

Tip
Do not discard the old Klettfix trimmer disc. It can be used as an ideal aid to remove excess investment from a CrCo model manually.

“The stable front can be completely removed and cleaned in a few steps using the quick-release lock. The spray tube can also be removed as easily as the trimmer table and could be cleaned in plaster remover for example (we recommend Renfert’s GO 2011 speed → page 189).”

Oliver Bothe, Product Management, Master Dental Technician

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible mains voltage / frequency</td>
<td>220–240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>1.300 W / 1.74 hp (220–240 V)</td>
</tr>
<tr>
<td></td>
<td>1.325 W / 1.78 hp (120 V)</td>
</tr>
<tr>
<td>Motor performance P1</td>
<td>1.300 W / 1.74 hp (220–240 V)</td>
</tr>
<tr>
<td></td>
<td>1.325 W / 1.78 hp (120 V)</td>
</tr>
<tr>
<td>Motor performance P2</td>
<td>900 W / 1.21 hp (220–240 V)</td>
</tr>
<tr>
<td></td>
<td>1.000 W / 1.34 hp (120 V)</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>2.880 1/min (50 Hz)</td>
</tr>
<tr>
<td></td>
<td>3.400 1/min (60 Hz)</td>
</tr>
<tr>
<td>Water consumption max.</td>
<td>7 l/min (0.25 cfm)</td>
</tr>
<tr>
<td>Water pressure min. / max.</td>
<td>min. 1 bar / max. 5 bar (14.5–72.5 psi)</td>
</tr>
<tr>
<td>Connection piece for drain hose</td>
<td>36 mm (1.42”)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>305 x 330 x 410 mm (12.0 x 13.0 x 16.1”)</td>
</tr>
<tr>
<td>Trimmer disc dimensions</td>
<td>Ø 234 mm (Ø 9.2”)</td>
</tr>
<tr>
<td>Weight (without trimmer disc)</td>
<td>13.2 kg (29 lbs)</td>
</tr>
</tbody>
</table>

Ordering information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT3, 220–240 V</td>
<td>incl. Klettfix trimmer disc</td>
<td>No. 18080000</td>
</tr>
<tr>
<td>MT3, 220–240 V</td>
<td>incl. Marathon trimmer disc</td>
<td>No. 18080500</td>
</tr>
<tr>
<td>MT3, 100–120 V</td>
<td>incl. Klettfix trimmer disc</td>
<td>No. 18081000</td>
</tr>
<tr>
<td>MT3, 100–120 V</td>
<td>incl. Marathon trimmer disc</td>
<td>No. 18081500</td>
</tr>
</tbody>
</table>

Suitable accessories

Trimmer discs → Page 72

Further information

www.renfert.com/P806
MT plus
Wet and dry trimmer

The MT plus is a wet and dry trimmer. Pure power, even the hardest stone is easily removed thanks to the powerful motor performance.

"Wet or dry? Preferably both? Then the MT plus is the correct choice. The trimmer can be converted from wet to dry in only a few steps. The interior is designed to provide optimal flow conditions in the wet and dry modes."

Christian Pilz,
Product Management, Dental Technician

Technical data
Permissible mains voltage / frequency 220–230 V, 50 Hz
Power consumption 1.300 W / 1.74 hp (230 V)
Motor performance P1 1.300 W / 1.74 hp (230 V)
Motor performance P2 900 W / 1.21 hp (220–240 V)
Rotational speed 2.850 1/min (230 V)
Water consumption max. 9 l/min (0.32 cfm)
Water pressure min. / max. min. 1 bar / max. 5 bar (14.5–72.5 psi)
Ø Connection piece for drain hose / external extraction 36 mm (1.42")
Dimensions (W x H x D) 300 x 320 x 410 mm (11.8 x 12.6 x 16.2")
Trimmer disc dimensions Ø 234 mm (Ø 9.2")
Weight (without trimmer disc) 13.5 kg (30 lbs)

Ordering information
MT plus, 220–230 V, incl. Klettfix trimmer disc No. 1803 0000
MT plus, 220–230 V, incl. Marathon trimmer disc No. 1803 0500

Suitable accessories
Trimmer discs → Page 72

Further information
www.renfert.com/P805

Advantages
- The front door can be easily removed without the use of tools to allow easy, quick maintenance.
- Detachable trimmer table and spray tube enable very easy cleaning.
- Noise-reducing, scratch-resistant housing made from a special material (polyurethane)

Details
- Can be used for any model situation due to infinitely adjustable trimmer table.
- Integrated tool allows quick change of the trimmer disc.
- The motor and water is stopped by a safety switch when opening the door, providing a high degree of safety.
**Trimmer discs**

**Trimmer discs for wet and dry trimming**

**1. Infinity**
The fully diamond-coated disc is suitable for all Renfert wet trimmers.
- A closed diamond surface produces a very smooth surface finish.
- Extremely resistant and durable.
- High cutting capacity

**2. Marathon**
The partially diamond-coated disc is suitable for both wet and dry trimming.
- Electroplated diamond islands.
- High cutting capacity with low pressure application.
- Long service life.

**3. Klettfix**
The Klettfix system is the inexpensive solution for wet trimming.
- Tool-free change in a few seconds.
- Uniform surface finish and variable use of 80 or 120 grit size.
- High cutting capacity.

---

**Technical data**

<table>
<thead>
<tr>
<th></th>
<th>Klettfix 80/120 Basic version</th>
<th>Klettfix 80/120 Refill kit</th>
<th>Marathon</th>
<th>Infinity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. revolutions</td>
<td>3 400 1/min</td>
<td>3 400 1/min</td>
<td>3 400 1/min</td>
<td>3 400 1/min</td>
</tr>
<tr>
<td>Application</td>
<td>Wet</td>
<td>Wet</td>
<td>Wet and dry</td>
<td>Wet</td>
</tr>
<tr>
<td>Type of material</td>
<td>Plaster and investment</td>
<td>Plaster and investment</td>
<td>Plaster</td>
<td>Plaster</td>
</tr>
<tr>
<td>Grinding performance / sec.</td>
<td>9.5 g / 0.34 oz.</td>
<td>9.5 g / 0.34 oz.</td>
<td>8.5–10.5 g / 0.30–0.37 oz.</td>
<td>8.5–10.5 g / 0.30–0.37 oz.</td>
</tr>
<tr>
<td>Plaster quantity</td>
<td>18 kg / 39.7 lbs</td>
<td>18 kg / 39.7 lbs</td>
<td>1 000 kg / 2 204 lbs</td>
<td>1 700 kg / 3 748 lbs</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th></th>
<th>MT3/MT3 pro</th>
<th>MT plus</th>
<th>MT2</th>
<th>MT1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Klettfix 80/120 Basic version</td>
<td>No. 1803 1001</td>
<td>No. 1803 1000</td>
<td>No. 1801 1000</td>
<td>–</td>
</tr>
<tr>
<td>Klettfix 80 Refill kit</td>
<td>No. 1803 1100</td>
<td>No. 1803 1100</td>
<td>No. 1801 1100</td>
<td>No. 1800 1100</td>
</tr>
<tr>
<td>Klettfix 120 Refill kit</td>
<td>No. 1803 1200</td>
<td>No. 1803 1200</td>
<td>No. 1801 1200</td>
<td>No. 1800 1200</td>
</tr>
<tr>
<td>Marathon</td>
<td>No. 1803 2001</td>
<td>No. 1803 2000</td>
<td>No. 1801 2000 (also TT2)</td>
<td>–</td>
</tr>
<tr>
<td>Infinity</td>
<td>No. 1803 3001</td>
<td>No. 1803 3000</td>
<td>No. 1801 3000</td>
<td>–</td>
</tr>
<tr>
<td>Diameter</td>
<td>23.4 cm / 9.2”</td>
<td>23.4 cm / 9.2”</td>
<td>25.4 cm / 10.0”</td>
<td>21.0 cm / 8.3”</td>
</tr>
</tbody>
</table>

**Extent of delivery**

- Klettfix 80/120 Basic version: 5 x Klettfix (3 x corn 80, 2 x corn 120) + support disc
- Klettfix 80 Refill kit: 5 x Klettfix
- Klettfix 120 Refill kit: 5 x Klettfix
- Marathon: 1 x Marathon
- Infinity: 1 x Infinity
The Millo (pro) provides the basis for precise model fabrication. The use of the Millo (pro) also increases safety at work and saves time.

**Technical data – Millo pro**

- **Permissible mains voltage / frequency**: 220–240 V, 50/60 Hz | 120 V, 60 Hz
- **Rated speed**: 2770 1/min (50 Hz) | 3350 1/min (60 Hz)
- **Max. permitted connected load of the plug-in socket**: 2200 VA (230 V) | 1300 VA (120 V)
- **Total connected load**: 2320 VA (230 V) | 1430 VA (120 V)
- **Dimensions (W x H x D)**: 214 x 207 x 252 mm (8.4 x 8.2 x 9.9”)
- **Weight**: approx. 5.7 kg (12.6 lbs.)

**Technical data – Millo**

- **Permissible mains voltage / frequency**: 220–240 V, 50/60 Hz | 120 V, 60 Hz
- **Rated speed**: 2770 1/min (50 Hz) | 3350 1/min (60 Hz)
- **Dimensions (W x H x D)**: 214 x 207 x 252 mm (8.4 x 8.2 x 9.9”)
- **Weight**: approx. 5.7 kg (12.6 lbs.)

**Ordering information**

- **Millo pro, 220–240 V**: No. 1805 0000
- **Millo pro, 120 V**: No. 1805 1000
- **Millo, 220–240 V**: No. 1804 0000
- **Millo, 120 V**: No. 1804 1000
- **1 Cutter tapered, cross-cut**: No. 1806 0001
- **2 Cutter tapered, coarse-cut (included in delivery)**: No. 1806 0002
- **3 Cylindric bur, cross-cut**: No. 1806 0003

**Advantages**

- A powerful, maintenance-free motor provides quick, effortless trimming of dental arches.

- The fine surface finish and absolutely uniform conical surface in the dental arch guarantee functional reliability and accuracy.

- Connection to an extractor unit ensures a clean workstation and a high degree of health protection.

**Features Millo pro**

The height of the Millo pro cutter can also be adjusted, thus enabling easy trimming of difficult tooth positions. Extractors without automatic switch-on can be automated using a direct connection with the Millo pro.

**Details**

- Completely stable thanks to enlarged base surface.

- Space-saving due to compact design.

- Uncomplicated cutter change using the integrated tool key.

- Detachable work table ensures easy cleaning.
Top spin
Pin drilling unit

The Top spin provides the advantages of precision, reliability and durability. We have been successful in greatly increasing the previous level of quality. You will be fascinated by the unique concentricity, special drill technology and unparalleled dust protection.

Advantages
- Unique shaft bearing technology ensures a drilling accuracy of \( \leq 0.01 \text{mm} \).
- Powerful motor without losing performance during drilling 8,000 rpm.
- Unique drill technology enables extremely easy drilling without resistance.

Further details
- Two unit positions and different gripping options for fixing the dental arch in position enable an individual, ergonomic working posture.
- The individual, infinitely variable drill-depth setting of 0–20 mm (0–0.79") also allows drilling for pin systems with resin plates.
- With adjustment it is also possible to use drills with a longer shank.
- Compact design with a high degree of stability.

Technical data
- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Power consumption during drilling: \(< 12 \text{ W} \)
- Power consumption in stand by mode: \(< 0.7 \text{ W} \)
- Laser-Class: 2
- Dimensions (W x H x D): 153 x 330 x 175 mm (6.0 x 13.0 x 6.9")
- Permissible drill shaft diameter \( \text{Ø} \): 3.00 mm \( \pm 0.03 \text{ mm} \)
- Permissible drill length: 34–46 mm (1.34–1.81")
- Weight: 4.0 kg (8.8 lbs)

Ordering information
- Top spin, 220–240 V: No. 18400000
- Top spin, 100–120 V: No. 18401000

Suitable accessories
Pin drills → Page 76

Further information
www.renfert.com/P820
Precision
- A unique shaft bearing eliminates even the smallest vibrations. A new dimension in drilling accuracy.
- Drills are each available in 3 versions for the individual sense of precision: “small/medium/large”.
- The dual telescope table guidance ensures precision drilling over the entire movement of the drill.
- The laser point is aligned exactly to the tip of the drill.
- Markings on the surface of the table enable accurate planning of the drill hole position, even with narrow dental arches.

Safe, simple operation
- The new drill geometry reduces the force during drilling by up to 50%. This means safety, even with dental arches that are at risk of fracture.
- A quick-release mechanism enables easy, tool-free drill change.
- The unique dust control and easily removable dust drawer with a filling level overview ensures a clean, comfortable workstation.

“The main switch is activated via an innovative motion sensor. The unit is then in stand-by mode. The drill spindle is automatically activated by lowering the table. The main switch automatically deactivates if the unit is not used for 2 min.”

Tilo Burgbacher, Design and Development
Pin step drill, Smart-Pin drill & Bi-Pin drill bit

Pin drills

The pin step drill is suitable for use with all pins with a pin head Ø of 2 mm, in particular for our Bi/ Bi-V pins. The Smart-Pin drill is suitable for use with all pins with a pin head Ø of 1.6 mm, especially for our Smart-Pin/ Profix. The Bi-Pin drill bit is used for for drilling pin holes with a handpiece.

Ordering information

Pin step drill and Smart–Pin drill

<table>
<thead>
<tr>
<th>Drill Model</th>
<th>Drilling Depth</th>
<th>Ø Drill Head</th>
<th>Ø Shaft</th>
<th>Material Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stepped pin drill bit small</td>
<td>5.8 mm (0.23&quot;)</td>
<td>Ø 1.98 mm</td>
<td>Ø 3.0 mm</td>
<td>5010 0198</td>
<td>Small stepped pin drill bit</td>
</tr>
<tr>
<td>Stepped pin drill bit medium</td>
<td>5.8 mm (0.23&quot;)</td>
<td>Ø 2.0 mm</td>
<td>Ø 3.0 mm</td>
<td>5010 0200</td>
<td>Medium stepped pin drill bit</td>
</tr>
<tr>
<td>Stepped pin drill bit large</td>
<td>5.8 mm (0.23&quot;)</td>
<td>Ø 2.02 mm</td>
<td>Ø 3.0 mm</td>
<td>5010 0202</td>
<td>Large stepped pin drill bit</td>
</tr>
<tr>
<td>Smart-Pin drill bit small</td>
<td>10.5 mm (0.41&quot;)</td>
<td>Ø 1.57 mm</td>
<td>Ø 3.0 mm</td>
<td>367 0157</td>
<td>Small Smart-Pin drill bit</td>
</tr>
<tr>
<td>Smart-Pin drill bit medium</td>
<td>10.5 mm (0.41&quot;)</td>
<td>Ø 1.59 mm</td>
<td>Ø 3.0 mm</td>
<td>367 0159</td>
<td>Medium Smart-Pin drill bit</td>
</tr>
<tr>
<td>Smart-Pin drill bit large</td>
<td>10.5 mm (0.41&quot;)</td>
<td>Ø 1.61 mm</td>
<td>Ø 3.0 mm</td>
<td>367 0161</td>
<td>Large Smart-Pin drill bit</td>
</tr>
</tbody>
</table>

Bi-Pin drill bit

Both drills are suitable for all pin drilling units with a 3 mm shank chuck. To coordinate the drilling accuracy even more finely to your system, our drills are each supplied in three versions (small/ medium/ large).

- Very high service life.
- Special blade geometry ensures very low drill resistance.
- Pin drill with maximum rotational symmetry.

Bi-Pin drill bit

For use with a handpiece for drilling pin holes.

- For Bi-Pin and Bi-V-Pin.
- Optimum drill depth on impact.

Recommended bur size

**Top spin**

- No. 1840 0000 / 1840 1000

Steped pin drill bit medium, No. 5010 0200
Smart-Pin drill bit medium, No. 367 0159

**Top spin**

- No. 1835 0000 / 1835 4000

Steped pin drill bit large, No. 5010 0202
Smart-Pin drill bit medium, No. 367 0159

Ordering information

Bi-Pin drill bit for handpieces

<table>
<thead>
<tr>
<th>Drill Model</th>
<th>Drilling Depth</th>
<th>Ø Drill Head</th>
<th>Ø Shaft</th>
<th>Material Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin drill bit</td>
<td>6.5 mm (0.26&quot;)</td>
<td>Ø 2.0 mm</td>
<td>Ø 2.35 mm</td>
<td>347 0000</td>
<td>Bi-Pin drill bit for handpieces</td>
</tr>
</tbody>
</table>
Perfect view for perfect work

Renfert sandblasting units
Sandblasting is where the individual, personal touch of the dental craftsman is still possible. It is a work step that requires great attention and precision.

This is what makes work easier

Perfect View
The better you can see the details, the better you can work. The bright LED illuminated blasting chamber helps substantially.
Reliable waxing up. In half the time.

→ Wax technology
Wax units that know your daily routine exactly

They help you to sculpt the wax comfortably with a reliable process and predictable results saving valuable time: Renfert wax units.

This is what makes work easier

1. no overheating of the wax (temperature setting from 50°–200°C)
2. 50–70% time saving
3. easy operation

Fewer steps and save up to 70% time

Heating over a Bunsen burner is no longer required in crown and bridge work in combination with the Waxlectric and Vario E. You can efficiently prepare and apply wax in the partial and full denture technique using the Waxprofi and large wax knife.

Prepare in minimum time

The wide variety of Renfert sculpting tips for the wax technique ensures that you can optimally utilize your required instrument for each area of application. This also includes a flexible temperature setting of 50°–200°C.

Take advantage of a coordinated system

The wax units develop their full potential when used in combination with GEO waxes. These waxes are suitable for processing both with a Bunsen burner as well as for optimized processing using the Waxprofi.

Overview Wax technology

<table>
<thead>
<tr>
<th>Electric wax knife</th>
<th>Wax preheating units</th>
<th>Wax dipping units</th>
<th>Laboratory burner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waxlectric I+II</td>
<td>✔</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Waxlectric light I+II</td>
<td>✔</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Vario E</td>
<td>–</td>
<td>✔</td>
<td>–</td>
</tr>
<tr>
<td>hotty LED / hotty</td>
<td>–</td>
<td>–</td>
<td>✔</td>
</tr>
<tr>
<td>Waxprofi</td>
<td>–</td>
<td>✔</td>
<td>–</td>
</tr>
<tr>
<td>Bijou 90 / Safety burner</td>
<td>–</td>
<td>–</td>
<td>✔</td>
</tr>
<tr>
<td>Eco safety burner</td>
<td>–</td>
<td>–</td>
<td>✔</td>
</tr>
</tbody>
</table>

making work easy for me means …

... working 50% more quickly by using the electric wax knife in combination with the respective preheating unit.

Cim Özyurt
Product Management,
Dental Technician
Waxlectric I + II

Electric wax knife

Waxlectric I + II are the professional instruments in the electric wax knife range. The application concept concentrates on safety, precision and user-friendliness.

Advantages
- Temperature setting to a precise degree ensures controlled working processes.
- Direct access of preferred working temperatures using the programming function.
- Hermetically sealed membrane keyboard.

Features
- Unlike the Waxlectric I, the Waxlectric II can be operated with two handpieces simultaneously.

Details
- Integrated holders provide ergonomic access to the handpieces and exchange tips.
- Direct setting of the maximum or minimum temperature.
- Daylight operable 3-figure LED display.
- Both channels can be set separately with the Waxlectric II.
- Color-coded for controlled management of the handpieces.

Technical data Waxlectric I
- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Supply voltage: 12 V DC
- Output power: 5 W
- Transformer input voltage: 100–240 V AC, 50/60 Hz
- Transformer output voltage: 12 V DC / 1 A
- Working temperature min.: 50°C (122°F)
- Working temperature max.: 200°C (392°F)
- Handpiece cable length: 85 cm (33.5”)
- Dimensions (W x H x D): 120 x 60 x 98 mm (4.72 x 2.36 x 3.86”)
- Weight (with / without mains unit): approx. 430 g / 240 g (15.2 oz / 8.5 oz)

Technical data Waxlectric II
- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Supply voltage: 12 V DC
- Output power: 10 W
- Transformer input voltage: 100–240 V AC, 50/60 Hz
- Transformer output voltage: 12 V DC / 1 A
- Working temperature min.: 50°C (122°F)
- Working temperature max.: 200°C (392°F)
- Handpiece cable length: 85 cm (33.5”)
- Dimensions (W x H x D): 150 x 60 x 98 mm (5.91 x 2.36 x 3.86”)
- Weight (with / without mains unit): approx. 460 g / 270 g (16.2 oz / 9.5 oz)

Ordering information
- Waxlectric I, (1 channel), 220–240 V No. 2156 0000
- Waxlectric I, (1 channel), 100–120 V No. 2156 1000
- Waxlectric II, (2 channels), 220–240 V No. 2157 0000
- Waxlectric II, (2 channels), 100–120 V No. 2157 1000

Comprising Waxlectric I
- 1 control unit, integrated holder for 1 handpiece and 6 tips, 1 handpiece, 1 waxing-up tip No. 2155 0102, 1 mains unit

Comprising Waxlectric II
- 1 control unit, integrated holders for 2 handpieces and 6 tips, 2 handpieces, 2 waxing-up tips No. 2155 0101 + 2155 0103, 1 mains unit
Waxlectric light I + II

Electric wax knife

These electric wax knives are the perfect introduction to efficient wax technology.

**Technical data Waxlectric light I**

- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Supply voltage: 12 V DC
- Output power: 5 W
- Transformer input voltage: 100–240 V AC, 50/60 Hz
- Transformer output voltage: 12 V DC / 1 A
- Working temperature min.: 50°C (122°F)
- Working temperature max.: 200°C (392°F)
- Handpiece cable length: 85 cm (33.5")
- Dimensions (W x H x D): 91 x 53 x 80 mm (3.58 x 2.09 x 3.15")
- Weight (with / without mains unit): approx. 410 g / 220 g (14.5 oz / 7.8 oz)

**Technical data Waxlectric light II**

- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Supply voltage: 12 V DC
- Output power: 10 W
- Transformer input voltage: 100–240 V AC, 50/60 Hz
- Transformer output voltage: 12 V DC / 1 A
- Working temperature min.: 50°C (122°F)
- Working temperature max.: 200°C (392°F)
- Handpiece cable length: 85 cm (33.5")
- Dimensions (W x H x D): 91 x 53 x 80 mm (3.58 x 2.09 x 3.15")
- Weight (with / without mains unit): approx. 430 g / 240 g (15.2 oz / 8.5 oz)

**Ordering information**

- Waxlectric light I, (1 channel), 220–240 V: No. 2150 0000
- Waxlectric light I, (1 channel), 100–120 V: No. 2150 1000
- Waxlectric light II, (2 channels), 220–240 V: No. 2151 0000
- Waxlectric light II, (2 channels), 100–120 V: No. 2151 1000

**Comprising Waxlectric light I**

1 control unit, 1 handpiece, 1 waxing-up tip No. 2155 0102, 1 mains unit

**Comprising Waxlectric light II**

1 control unit, 2 handpieces, 2 waxing-up tips No. 2155 0101 + 2155 0103, 1 mains unit

**Suitable accessories**

Scultping tips, Holder set → Page 82
GEO Classic Avantgarde modeling waxes → Page 167

“‘The curved and slender tip of the large wax knife ensures optimum contouring of the palatal wax-up and interdental spaces.’”

Guido Testa, Dental technician

**Advantages**

- Easy temperature control via a potentiometer.
- Separately adjustable temperature with Waxlectric light II.
- Compact, ergonomic design.

**Features**

- Unlike the Waxlectric light I, the Waxlectric light II can be operated with two handpieces simultaneously.

**Details**

- No contraction in the pattern, as the wax is neither overheated nor burned.
- The technician can concentrate more on the pattern and less on the tools and instruments.

**Making work easy**

Cleaning Waxlectric inserts is very easy. Any contaminants are gently removed by sandblasting with a non-abrasive blast medium (for ex. Rollolblast 50 µm) at 2 bar. After a short high-luster polish on the lathe, you are ready.
Sculpting tips

The integrated heating element, customization option, easy and quick changing are only a few of the special features of the sculpting tips.

Advantages
- 12 different versions.
- Very rapid heating and reheating rates thanks to the extreme thermal conductivity of the special alloy.
- Easy cleaning ensures long service life.

Large wax knife

The large wax knife is suitable for all requirements in partial and full denture prosthetics.

Advantages
- Ideal for taking up large and small amounts of wax.
- Sculpting tip is ideally suited for optimal contouring of the interdental space.
- Vertical and horizontal curvature for contouring natural curves.

Ordering information

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>1 Tip small</td>
<td>1 piece</td>
<td>No. 21550101</td>
</tr>
<tr>
<td>2 Tip medium</td>
<td>1 piece</td>
<td>No. 21550102</td>
</tr>
<tr>
<td>3 Tip large</td>
<td>1 piece</td>
<td>No. 21550103</td>
</tr>
<tr>
<td>4 Knife narrow</td>
<td>1 piece</td>
<td>No. 21550104</td>
</tr>
<tr>
<td>5 Knife wide</td>
<td>1 piece</td>
<td>No. 21550105</td>
</tr>
<tr>
<td>6 Knife chamfered</td>
<td>1 piece</td>
<td>No. 21550106</td>
</tr>
<tr>
<td>7 Hollenback</td>
<td>horizontal, 1 piece</td>
<td>No. 21550107</td>
</tr>
<tr>
<td>8 Hollenback</td>
<td>vertical, 1 piece</td>
<td>No. 21550108</td>
</tr>
<tr>
<td>9 Tip mini</td>
<td>angled, 1 piece</td>
<td>No. 21550109</td>
</tr>
<tr>
<td>10 Lancet blade</td>
<td>1 piece</td>
<td>No. 21550110</td>
</tr>
<tr>
<td>11 Beavertail blade</td>
<td>1 piece</td>
<td>No. 21550111</td>
</tr>
</tbody>
</table>

Holder set

Holder set for use with Waxlectric light I and II.

Advantages
- Quick access to up to 6 sculpting tips.
- Clean storage of the handpieces.
- Easy cleaning of the removable, steam-cleaning resistant, individual components.

Ordering information

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 Tip small</td>
<td>1 piece</td>
<td>No. 21550101</td>
</tr>
<tr>
<td>2 Tip medium</td>
<td>1 piece</td>
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</tr>
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<td>1 piece</td>
<td>No. 21550103</td>
</tr>
<tr>
<td>4 Knife narrow</td>
<td>1 piece</td>
<td>No. 21550104</td>
</tr>
<tr>
<td>5 Knife wide</td>
<td>1 piece</td>
<td>No. 21550105</td>
</tr>
<tr>
<td>6 Knife chamfered</td>
<td>1 piece</td>
<td>No. 21550106</td>
</tr>
<tr>
<td>7 Hollenback</td>
<td>horizontal, 1 piece</td>
<td>No. 21550107</td>
</tr>
<tr>
<td>8 Hollenback</td>
<td>vertical, 1 piece</td>
<td>No. 21550108</td>
</tr>
<tr>
<td>9 Tip mini</td>
<td>angled, 1 piece</td>
<td>No. 21550109</td>
</tr>
<tr>
<td>10 Lancet blade</td>
<td>1 piece</td>
<td>No. 21550110</td>
</tr>
<tr>
<td>11 Beavertail blade</td>
<td>1 piece</td>
<td>No. 21550111</td>
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Ordering information

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Large wax knife</td>
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</table>

Ordering information

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set of Waxlectric holders</td>
<td></td>
<td>No. 21511500</td>
</tr>
</tbody>
</table>
Vario E
Wax warmer

The Vario E allows you to keep your sculpting wax at the required working temperature. Protect your wax against too high temperatures, your sculpting tips against mechanical loading and your wax pattern against high stresses.

**Technical data**

Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz

Power consumption 85 W

Working temperature min. 45°C (113°F)

Working temperature max. 110°C (230°F)

Dimensions (W x H x D) 178 x 54 x 120 mm (7.01 x 2.13 x 4.72")

Weight (filled) approx. 660 g (23.3 oz)

**Ordering information**

Vario E, 220–240 V No. 1452 0000
Vario E, 100–120 V No. 1452 1000

**Suitable accessories**

GEO Classic Avantgarde modeling waxes → Page 167

**Further information**

Wax-up manual: www.renfert.com/P48

“Did you know that Vario E offers savings of 50% in modelling time, in combination with the Waxlectric of Renfert? Moreover you eliminate the risk of overheating the wax avoiding any contraction.”

Cim Özyurt,
Product Management, Dental Technician

**Advantages**

- 30% saving in time due to the preheating function.
- Multi-functionality provided by three wax pots with separate control.
- Individual setting of the wax consistency (from creamy to fluid) using infinitely variable temperature setting of 45–110°C (113–230°F).

**Details**

- The permanent temperature control of the actual value input is indicated by the LED display.
- Also suitable for processing light-curing waxes.
- Ergonomic working height ensures relaxed working.
- The deep wax pot is ideal for dipping copings.
hotty LED & hotty
Wax dipping pot

The wax dipping pots hotty and hotty LED are the optimal units for producing dimensionally stable wax copings with a uniform thickness in only a few seconds.

“{quote}The dipping technique is still the quickest and most precise method for fabricating a coping. Material-appropriate wax preparation creates uniform layer thicknesses.\{quote}\n
Cim Özyurt,
Product Management, Dental Technician

Advantages
- Quick, continuous heating phase.
- Accurate results due to permanent compensation of minimal temperature fluctuations.
- Uniform temperature distribution ensures consistent layer thickness of the wax copings.

Features
The membrane keypad of the hotty LED enables the temperature to be set accurately to within a degree. The temperature status is permanently indicated by the LED display. The hotty allows for temperature input and display via a potentiometer.

Details
- Actual value indication in the dipping area of the dies.
- Infinitely variable temperature setting from 60–110 °C (140–230 °F).
- Ergonomically contoured housing provides optimal support for the fingers.
- No contamination of the unit by wax residue thanks to the specially designed wax runback pot.
- The integrated lid provides protection against dirt and dust.

Technical data hotty LED
- Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
- Power consumption 25 W
- Working temperature min. 60 °C (140 °F)
- Working temperature max. 110 °C (230 °F)
- Mains input fuse T 500 mA / 250 V (220–240 V) | T 250 mA / 250 V (100–120 V)
- Dimensions (W x H x D) 90 x 65 x 98 mm (3.54 x 2.56 x 3.86“)
- Weight approx. 400 g (14.1 oz)

Technical data hotty
- Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
- Power consumption 25 W
- Working temperature min. 60 °C (140 °F)
- Working temperature max. 110 °C (230 °F)
- Mains input fuse T 500 mA / 250 V (220–240 V) | T 250 mA / 250 V (100–120 V)
- Dimensions (W x H x D) 90 x 65 x 98 mm (3.54 x 2.56 x 3.86“)
- Weight approx. 360 g (12.7 oz)

Ordering information
- hotty LED, 220–240 V No. 14610000
- hotty LED, 100–120 V No. 14611000
- hotty, 220–240 V No. 14600000
- hotty, 100–120 V No. 14601000

Suitable accessories
Dipping wax → Page 163
Waxprofi
Wax warmer

Your individual skill is required to give a denture freshness and vitality. Our Waxprofi is required to implement this efficiently. Experience how easy setting-up has become.

Advantages
- 50% time saving due to the preheating function.
- Individual setting of the wax consistency (from creamy to fluid) by infinitely variable temperature setting from 40–110°C (104–230°F).
- Work without continually refilling due to a large volume pot (110 ml / 3.72 fl.oz.).

Details
- Ergonomic height ensures easy uptake of wax portions.
- Clean handling due to functional pot design.
- Integrated lid protects the wax.
- Suitable for the use of light-curing waxes.

Making work easy
70% time-saving is achieved by using the combination of Waxlectric and Waxprofi, as heating the instrument over a Bunsen burner is no longer required.

Technical data

Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
Power consumption 120–140 W (220–240 V) | 120 W (100–120 V)
Working temperature min. 40°C (104°F)
Working temperature max. 110°C (230°F)
Dimensions (W x H x D) 178 x 54 x 120 mm (7.01 x 2.13 x 4.72“)
Pot size 185 ml (6.26 fl.oz)
Usable pot volume 110 ml (3.72 fl.oz)
Weight (filled) approx. 600 g (21.2 oz)

Ordering information

Waxprofi, 220–240 V No. 1440 0000
Waxprofi, 100–120 V No. 1440 1000

The suitable complement
Waxlectrics, Electric wax knife → Page 80–81
Bijou 90 & Safety burner

Single and double tube safety burners

Bijou 90 and the Safety burner are two-tube burners for use with liquid gas and natural gas E. The eco safety burner is a single tube safety burner for use with liquid gas and natural gas E.

**Bijou 90 and Safety burner**
- Two riser tubes provide the choice of flame intensity.
- Individual adjustment of the gas supply (rocker lever) and oxygen supply (adjustment wheel).
- Tested quality and safety thanks to the DIN-DVGW type-examination certificate according to DIN 30665–1.

**Features**
- High degree of safety due to automatic cut-off of gas supply if the flame is extinguished unintentionally (on the Safety burner).

**Safety burner eco**
- High degree of safety due to automatic shut-off of the gas supply if the flame is extinguished unintentionally.
- Quick cleaning of the easily detachable collector tray.
- Tested quality and safety thanks to the DVGW type-examination certificate according to DIN 30665–1.

**Note**
Always use the liquid gas Bunsen burner with a pressure reducer at a fixed setting (50 mbar).

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**Technical data – Bijou 90**

<table>
<thead>
<tr>
<th></th>
<th>Liquid gas</th>
<th>Natural gas E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (depending on the angle)</td>
<td>102–109 mm (4.02–4.29&quot;)</td>
<td>102–109 mm (4.02–4.29&quot;)</td>
</tr>
<tr>
<td>Rated output</td>
<td>660 W</td>
<td>660 W</td>
</tr>
<tr>
<td>Connection hose (norm)</td>
<td>DIN 30664</td>
<td>DIN 30664</td>
</tr>
<tr>
<td>Supply pressure</td>
<td>50 mbar</td>
<td>20 mbar</td>
</tr>
<tr>
<td>Nozzle Ø</td>
<td>0.34 mm (13.4 mil)</td>
<td>0.55 mm (21.7 mil)</td>
</tr>
<tr>
<td>Consumption</td>
<td>48 g/h (1.69 oz/h)</td>
<td>63 g/h (2.2 ft³/h)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>max. 40°C (104°F)</td>
<td>max. 40°C (104°F)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>100 x 109 x 60 mm (3.94 x 4.29 x 2.36&quot;)</td>
<td>100 x 109 x 60 mm (3.94 x 4.29 x 2.36&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 530 g (18.7 oz)</td>
<td>approx. 530 g (18.7 oz)</td>
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**Technical data – Safety burner**

<table>
<thead>
<tr>
<th></th>
<th>Liquid gas</th>
<th>Natural gas E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (depending on the angle)</td>
<td>113–122 mm (4.45–4.80&quot;)</td>
<td>113–122 mm (4.45–4.80&quot;)</td>
</tr>
<tr>
<td>Rated output</td>
<td>750 W</td>
<td>650 W</td>
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<tr>
<td>Connection hose (norm)</td>
<td>DIN 30664</td>
<td>DIN 30664</td>
</tr>
<tr>
<td>Supply pressure</td>
<td>50 mbar</td>
<td>20 mbar</td>
</tr>
<tr>
<td>Nozzle Ø</td>
<td>0.34 mm (13.4 mil)</td>
<td>0.55 mm (21.7 mil)</td>
</tr>
<tr>
<td>Consumption</td>
<td>48 g/h (1.69 oz/h)</td>
<td>63 g/h (2.2 ft³/h)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>max. 40°C (104°F)</td>
<td>max. 40°C (104°F)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>160 x 122 x 60 mm (6.30 x 4.80 x 2.36&quot;)</td>
<td>160 x 122 x 60 mm (6.30 x 4.80 x 2.36&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 640 g (22.4 oz)</td>
<td>approx. 640 g (22.4 oz)</td>
</tr>
</tbody>
</table>

**Technical data – Eco safety burner**

<table>
<thead>
<tr>
<th></th>
<th>Liquid gas</th>
<th>Natural gas E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output</td>
<td>650 W</td>
<td>450 W</td>
</tr>
<tr>
<td>Connection hose (norm)</td>
<td>DIN 30664</td>
<td>DIN 30664</td>
</tr>
<tr>
<td>Supply pressure</td>
<td>50 mbar (0.725 psi)</td>
<td>20 mbar (0.290 psi)</td>
</tr>
<tr>
<td>Nozzle Ø</td>
<td>0.34 mm (13.4 mil)</td>
<td>0.55 mm (21.7 mil)</td>
</tr>
<tr>
<td>Consumption</td>
<td>50 g/h (1.76 oz/h)</td>
<td>48 g/h (1.7 ft³/h)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>max. 40°C (104°F)</td>
<td>max. 40°C (104°F)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>141 x 102 x 121 mm (5.6 x 4.0 x 4.8 inch)</td>
<td>141 x 102 x 121 mm (5.6 x 4.0 x 4.8 inch)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 460 g (16.2 oz)</td>
<td>approx. 460 g (16.2 oz)</td>
</tr>
</tbody>
</table>

**Ordering information**

- **Bijou 90**, liquid gas/ natural gas E No. 9600000 / No. 9610000
- **Safety burner**, liquid gas/ natural gas E No. 9330100 / No. 9320100
- **Safety burner eco**, liquid gas/ natural gas E No. 9340100 / No. 9350100
When does work feel good?

When mind and body work hand in hand.

“What we really want is to make work easier for dental technicians.”

Our activities focus on people and their requirements. With this in mind, we develop practicable solutions which enable dental technicians to put their passion for detail into practice.

“For me work feels good when I get the results I want quickly and easily!”

Jörg Richter
Master Dental Technician

www.renfert.com/makingworkeasy
Magma
Preheating furnace

Magma is a preheating furnace with all the technical features, which fulfill all the requirements in terms of programming, handling and ergonomics.

Advantages

- Four-sided heating ensures uniform heating in the entire furnace chamber.
- Quick heat rate: to 900°C (1654°F) in only 60 min.
- 99 Program storage spaces + 1 Program for speed investments.

Catalyst converter

Reduction of unpleasant odors and smoke thanks to catalytic post-combustion of furnace gases.

- Intelligent control via the Magma.
- Chemical conversion of organic constituents into carbon dioxide and water vapor.
- Increase in service life thanks to automatic switch-off at 650°C (1202°F). The catalyst converter operates continuously when using the speed program.

“Heating coils integrated in the walls of the furnace chamber are protected against aggressive gases and mechanical damage. The result is a long service life.”

Oliver Bothe, Product Management, Master Dental Technician

Further information

Model casting manual: www.renfert.com/P48
The catalyst converter detoxifies the flue gases, which are created during heating. It is easily attached to the furnace in a few simple steps and the furnace detects the additional components automatically.

Nikolaus Langner, Dental Technician

Temperature
- The one-piece furnace chamber prevents localized heat loss, which is otherwise caused by joints.
- Guarantees uniform temperature distribution due to the high density of heating coils in thermally demanding zones.

Precision
- Temperature displayed is measured at the furnace chamber level.
- Long service life and high accuracy thanks to a PtRh-Pt thermocouple.

Flexibility
- 9 x #3, 4 x #6, 3 x #9 casting rings.
- Casting rings can be placed on the furnace door, which is made from special ceramic fibers.
SYMPRO
Denture cleaning unit

SYMPRO is a compact, high-performance cleaning unit for dentures and orthodontic appliances.

Advantages
- Maximum oral hygiene increases the well-being of the patient and promotes patient loyalty.
- The fully automatic process involves virtually no labor costs.
- Time-saving work preparation for repairs, extensions and relines.

Making work easy
Aids in the early detection of damage due to regular prophylactic cleaning. Functional reliability based on high-quality processing. Easy, intuitive operation ensures process reliability.

“Why is the SYMPRO so efficient? As the bowl is positioned at 35°, the denture is situated against the current flow due to gravitational force enabling the needles to clean it optimally.”

Oliver Bothe, Product Management, Master Dental Technician

Technical data
- Permissible mains voltage / frequency: 100–240 V, 50/60 Hz
- Power consumption: 90 VA
- Rotational speed: 1200 / 1600 / 2000 1/min
- Dimensions (W x H x D): 150 x 240 x 280 mm (5.91 x 9.45 x 11.02")
- Weight w/o bowl: approx. 3 kg (6.6 lbs.)

Ordering information
- SYMPRO, 100–240 V: No. 65000000
- Cleaning pins, 75 g (2.63 oz.): No. 65000550
- SYMPROfluid Universal, 2 x 2 l (2 x 0.53 gal): No. 65000600
- SYMPROfluid Nicoclean, 2 x 2 l (2 x 0.53 gal): No. 65000610
- Patient brochures, 50 pieces, english: No. 211092

Extent of delivery SYMPRO
SYMPRO, 1 tweezer, 1 cleaning vessel with cover for use in cleaning device, 1 cleaning bowl with cover (white) for post-treatment, retaining magnet, cleaning needles

Further information
www.renfert.com/P1735

Bowl position for optimal cleaning

35°
The needles are the key factor
A rotary magnetic field sets the needles in motion, which causes gentle, mechanical removal of the surface accretion.

The rotating needles heat up the cleaning solution to approx. 45°C (113°F), which accelerates the chemical reaction. The needles are made of an acid-resistant alloy. They are cut precisely at right angles and also designed for maximum efficiency and durability. This has the effect of increasing efficiency while at the same time protecting the surface of the object.

We have the ideal chemistry!
Suitable cleaning fluids for this denture cleaning technology are:

**SYMPROfluid Universal**
Is used for cleaning in combination with the device. This fluid is used for removing “standard” accretion such as plaque, calculus, discoloration and adhesive denture creams.

**SYMPROfluid Nicoclean**
Also removes heavy nicotine stains from dentures. It is used for follow-up treatment without the use of the device.
Easyclean
Ultrasonic cleaning unit

Easyclean lives up to its name. It stands for easy, intensive and gentle ultrasonic cleaning using the latest state-of-the-art technology.

“Never place items to be cleaned directly on the floor of the ultrasonic tank, as this could cause damage. Use the basket or a similar aid.”

Oliver Bothe, Product Management, Master Dental Technician

Advantages
- Very good cleaning results using the optimally coordinated ultrasonic high-performance transducer system (37 kHz).
- Quick, optimal cleaning capacity due to degassing of the cleaning fluid (degas function).
- Uniform cleaning intensity on large items based on permanent displacement of the pressure wave peaks (sweep function).

Details
- Efficient cleaning capacity due to optimal heat distribution with the aid of specially arranged heating elements.
- Adjustable heating in 5°C increments (heat range 30–80°C/ 86–176°F).
- Long service life due to a highly cavitation-resistant stainless steel ultrasonic tank.
- Drip-proof control unit integrated in a durable stainless steel housing.

Technical data
- Permissible mains voltage / frequency 220–240 V, 50/60 Hz | 100–120 V, 50/60 Hz
- Power consumption 280 W
- Ultrasonic frequency 37 kHz
- Ultrasonic effective power 80 W
- Heating power 200 W
- Tank, max. volume / operating volume 2,75 l / 1,90 l (0.73 gal / 0.50 gal)
- Tank, inner dimensions (W x H x D) 240 x 137 x 100 mm (9.5 x 5.4 x 3.9”)
- Device, exterior dimensions (W x H x D) 300 x 179 x 214 mm (11.8 x 7.1 x 8.4”)
- Weight 3.3 kg (7.3 lbs.)

Ordering information
- Easyclean, 220–240 V No. 1850 0000
- Easyclean, 120 V No. 1850 1000

Suitable accessories
Ultrasonic cleaning agents – the perfect partner for optimum cleaning → Page 189
Easyclean
Accessories

Ordering information

1. Plastic lid
- Quicker heating.
- Protects against evaporation and dust infiltration.

2. Stainless steel cover
- Cover for use with the cleaning jar or plastic container with lid.

3. Stainless steel basket
- For storage of cleaning items.
- To protect the floor of the oscillating tank.

4. Stainless steel immersion basket
- For cleaning small and very delicate items.
- For use with the stainless steel cover or with the cleaning jar.

5. Acid bath insert
- For acids and fluids not suitable for use in the stainless steel tank.

6. Cleaning jar
- For the use of additional cleaning fluids.
- For use in the stainless steel cover.

7. Plastic container with lid
- Ideal for cleaning smaller items and working with acids.
- Can be also used in conjunction with the stainless steel cover.
Mobiloskop S
Microscope

One microscope for up to 4 workplaces! The 360° swivel-mounted support arm allows a single microscope to be utilized from several workplaces for detail control and precision work.

“Did you know that aspherical lenses in combination with good illumination in a dental microscope reduce the stress for the eyes to a minimum? Aspherical lenses ensure a distortion-free image with high marginal detail (see figure). Quality counts and saves you unnecessary stress.”

Oliver Bothe, Product Management, Master Dental Technician

Advantages
- 5 and 10 times magnification provides maximum precision.
- Distortion-free coupled with uniform sharpness in the entire viewing field.
- Large viewing field with a high depth of focus and marginal detail.

Details
- Ergonomic and relaxed seating position thanks to the high working position of 150 mm.
- Dioptric compensation enables a three-dimensional view.
- Optional: LED-illumination with 9,000 Lux/18 white light LEDs.

Technical data

<table>
<thead>
<tr>
<th>Light beam</th>
<th>45°, angled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of vision Ø</td>
<td>44 mm (1.734&quot;) (5 x)</td>
</tr>
<tr>
<td></td>
<td>22 mm (0.867&quot;) (10 x)</td>
</tr>
<tr>
<td>Focussing depth</td>
<td>22 mm (0.867&quot;) (5 x)</td>
</tr>
<tr>
<td></td>
<td>10 mm (0.394&quot;) (10 x)</td>
</tr>
<tr>
<td>Working distance</td>
<td>150 mm (5.9&quot;)</td>
</tr>
<tr>
<td>Action radius of swivel arm</td>
<td>850 mm (33.5&quot;)</td>
</tr>
<tr>
<td>Max. table top thickness with universal clamp</td>
<td>18–74 mm (0.71–2.92&quot;)</td>
</tr>
<tr>
<td>Max. table top thickness with screw clamp</td>
<td>max. 26 mm (1.02&quot;)</td>
</tr>
<tr>
<td>Weight (incl. swivel arm)</td>
<td>approx. 1.8 kg (4.0 lbs.)</td>
</tr>
</tbody>
</table>

Ordering information

Mobiloskop S with support arm, Mobiloskop head (without lighting), support arm (incl. stand with universal clamp) No. 2200 0400
1 Stand with universal clamp No. 2200 0410
2 Stand with screw clamp No. 2200 0420
LED illumination

There is a choice of two light intensities for optimal adaptation to each object. This makes working with the Mobiloskop fatigue-free.

Advantages
- Perfect illumination of the viewing field and maximum control of detail using 9,000 Lux.
- Optimum light tone ensures color fidelity observation of all objects using 18 long-life white light LEDs.
- Shadow-free, contrast-rich illumination via a 15° lighting angle.

Support arm

Stable support arm with three hinges, which can be adjusted and fixed to any position.

Advantages
- Can be used for up to 4 workplaces due to swivel-mounted support arm with a radius of 850 mm.
- Integrated power cable for the LED lighting.
- Workplace attachment with clamp for table top thicknesses of 18–74 mm (0.71–2.92”).

Remberti

1.5 times enlarging magnifying spectacles with foldable magnifying section.

Advantages
- Non-reflecting due to tempered mineral glasses.
- Low weight of only 38 g (1.38 oz.) ensures interference-free working.
- Also suitable for spectacle wearers.

Technical data

Permissible mains voltage / frequency 100–240 VAC, 50 / 60 Hz
LED light fitting operating voltage 12 VDC
Mains adapter power consumption 16 W
LED light fitting power consumption 14 W (Level 1), 12 W (Level 2)

Ordering information

Ordering information

Ordering information

Remberti, magnifying glasses silver No. 1262 0001

Ordering information

Support arm, stand with universal clamp with universal clamp No. 2200 0401
Stand with screw clamp (max. bench top thickness: 26 mm) No. 2200 0420

Weight 250 g (0.55 lbs)
Dimensions (W x H x D) 162 x 34 x 82 mm (6.38 x 1.34 x 3.23”)

Ordering information

Ordering information

Ordering information

Ordering information

Remberti, magnifying glasses silver No. 1262 0001
“The moment I pick up a brush, somehow my attitude changes. Something as simple as the feel of the handle and the flexibility of the tip when layering helps me relax and forget time briefly.”

Klara Wenzel
Dental Technician
What is important when working creatively?

"Creative working stages do not involve what you would otherwise call “optimum” or “perfect”. It has much more to do with personal style. In this sense, the best work can only be created where the esthetic expectations of the dental technician, dentist and patient concur. In this situation exchanging ideas is simply essential. I also maintain that you require time to find and further develop your personal style with the brush and material. It is perhaps an exaggeration to talk about “artistic phases” with dental technicians. But I can already say that my creative work is different compared to five years ago."

Which characteristics make brushes valuable for you?

"I like brushes that are very precise and have a well-formed tip. The tip should keep its shape for as long as possible. This helps me because firstly, I don’t want to keep changing the brush or buying new brushes. Secondly, brushes that last a long time improve the quality of my work. The reason for this is that the longer I use the brush, the more I can become accustomed to it and gain experience. I appreciate a large selection of brushes and mixing palettes, but once I have established my favorites I can manage with a very small set."
Variety provides for a free selection.

→ lay:art system
Trays and brushes, truly individual

The lay:art system allows you to develop your art in a suitable framework. Quality and functionality are integral features of these ultra-modern mixing trays and high-quality brushes.

This is what makes work easier

1. large selection of different moistening systems
2. ergonomic design
3. rewritable foil in the lid
4. ingenious ventilation system
5. integrated support surface

Find optimum instruments

Ten mixing trays with and without moistening function and ten sizes of brushes with different shapes are available in the lay:art system. This allows you to find your individual combination of mixing tray and brush.

Work cleanly, reliably and carefully

Integrated anti-surge ridges and recessed grips ensure safe transport. The rewritable foil in the lid ensures organized management of the porcelains on the tray. A practical feature: the support surface for brushes and instruments in the large housing.

Keep your porcelains well preserved

The housing lid protects the porcelains against drying out and contamination. The ingenious ventilation system inhibits the formation of mold (with proper use) and ensures hygienic working.

Overview mixing tray

| lay:art crystal aqua | ✔ | – | – | – |
| lay:art tropic pro | ✔ | – | – | – |
| lay:art tropic | ✔ | – | – | – |
| lay:art oasis | ✔ | – | – | – |
| lay:art crystal | – | ✔ | – | – |
| lay:art natural | – | ✔ | – | – |
| lay:art color | – | – | ✔ | ✔ |
| Rainbow | ✔ | – | – | – |
| Porcelain mixing tray | – | ✔ | – | – |
| Stain-Mix | – | – | ✔ | – |
| Melody | – | – | ✔ | – |

making work easy for me means ...

... that the lid is easily detachable at an angle of 90° and locks when open at an angle of 120°. This provides me with an optimum view on the rewritable labeling foil.

Joanna Deligianni
Product Management,
Dental Technician
lay:art crystal aqua

Partially self-moistening glass mixing tray with two moistening strips.

**Advantages**
- Gentle on the brush and completely abrasion free using float glass.
- Homogeneous moistening and consistency of the porcelain thanks to dimensionally stable and durable moistening strips.
- Optimal moisture transport ensures there is no formation of microbubbles or porosity.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specifications</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>lay:art crystal aqua xl</td>
<td>tray dimensions: 220 x 4 x 120 mm (8.67 x 0.16 x 4.73”), housing size: 291 x 36 x 223 mm (11.47 x 1.42 x 8.79”)</td>
<td>1043 1000</td>
</tr>
<tr>
<td>lay:art crystal aqua s</td>
<td>tray dimensions: 159 x 4 x 90 mm (6.26 x 0.16 x 3.55”), housing size: 211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</td>
<td>1043 2000</td>
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<tr>
<td>Labeling foil crystal (aqua) xl</td>
<td>3 pcs.</td>
<td>10430100</td>
</tr>
<tr>
<td>Labeling foil crystal (aqua) s</td>
<td>3 pcs.</td>
<td>10430200</td>
</tr>
<tr>
<td>Moistening strip crystal aqua xl</td>
<td>12 pcs.</td>
<td>10431010</td>
</tr>
<tr>
<td>Moistening strip crystal aqua s</td>
<td>12 pcs.</td>
<td>10432020</td>
</tr>
</tbody>
</table>

lay:art tropic pro

Homogeneous, diffusible high-tech porcelain tray with wells and continuous moistening.

**Advantages**
- Ideal porcelain consistency due to uniform, continuous moistening of the porcelain.
- Individual control of the optimum porcelain consistency thanks to the sophisticated mixing well geometry.
- 12 (xl)/4 (s) large and 5 (xl)/4 (s) small mixing wells provide space for structured working.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specifications</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>lay:art tropic pro xl</td>
<td>tray dimensions: 220 x 4 x 120 mm (8.67 x 0.16 x 4.73”), housing size: 291 x 36 x 223 mm (11.47 x 1.42 x 8.79”)</td>
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<tr>
<td>lay:art tropic pro s</td>
<td>tray dimensions: 159 x 4 x 90 mm (6.26 x 0.16 x 3.55”), housing size: 211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</td>
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<tr>
<td>Labeling foil tropic (pro) xl</td>
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<td>10440100</td>
</tr>
<tr>
<td>Labeling foil natural, tropic (pro) s</td>
<td>oasis, 3 pcs.</td>
<td>10460100</td>
</tr>
</tbody>
</table>

lay:art tropic

Diffusible high-tech porcelain tray with homogeneous, full-surface moistening.

**Advantages**
- Diffusible plate material ensures optimally moistened porcelain.
- Savings in material and costs without loss due to drying out.
- Savings in time, since continuous humidification of porcelain powders is not necessary.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specifications</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>lay:art tropic xl</td>
<td>tray dimensions: 220 x 4 x 120 mm (8.67 x 0.16 x 4.73”), housing size: 291 x 36 x 223 mm (11.47 x 1.42 x 8.79”)</td>
<td>1044 0000</td>
</tr>
<tr>
<td>lay:art tropic s</td>
<td>tray dimensions: 159 x 4 x 90 mm (6.26 x 0.16 x 3.55”), housing size: 211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</td>
<td>1044 1000</td>
</tr>
<tr>
<td>Labeling foil tropic (pro) xl</td>
<td>3 pcs.</td>
<td>10440100</td>
</tr>
<tr>
<td>Labeling foil natural, tropic (pro) s</td>
<td>oasis, 3 pcs.</td>
<td>10460100</td>
</tr>
</tbody>
</table>
lay:art oasis

High-tech porcelain mixing tray with glazed surface and perforated wells. Automatic capillary moistening for processing and storing of dental ceramic materials.

**Advantages**
- The porcelain remains processable for a long time thanks to the continuous moistening by means of a micro-foam moistening pad.
- Safe working due to permanent optimal consistency of porcelain.
- Gentle on the brush thanks to a completely glazed surface.

**Ordering information**

<table>
<thead>
<tr>
<th>lay:art oasis, tray dimensions:</th>
<th>159 x 9 x 90 mm (6.26 x 0.35 x 3.55”), housing size:</th>
<th>211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>No. 10460100</td>
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</tbody>
</table>

lay:art crystal

Glass mixing tray in a modern design.

**Advantages**
- Optimized plate color provides optimum contrast to the material.
- Gentle on the brush and completely abrasion free using float glass with a high-quality, extremely smooth surface.
- Perfect overview and structured working thanks to optical subdivision in segments.

**Ordering information**

<table>
<thead>
<tr>
<th>lay:art crystal, tray dimensions:</th>
<th>220 x 4 x 120 mm (8.67 x 0.16 x 4.73”), housing size:</th>
<th>291 x 36 x 223 mm (11.47 x 1.42 x 8.79”)</th>
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</thead>
<tbody>
<tr>
<td>Labeling foil crystal (aqua) xl, 3 pcs.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>No. 10430100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

lay:art natural

Exclusive mixing tray made from natural agate stone.

**Advantages**
- The outstanding material hardness and highly polished surface guarantee abrasion-free, reliable working.
- Individuality, each tray is uniquely handcrafted.

**Ordering information**

<table>
<thead>
<tr>
<th>lay:art natural, tray dimensions:</th>
<th>159 x 6.5 x 90 mm (6.26 x 0.26 x 3.55”), housing size:</th>
<th>211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</th>
<th>No. 10460000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labeling foil natural, tropic (pro) s, oasis, 3 pcs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. 10460100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
lay:art color

Glazed ceramic tray for preparing and storing stains.

**Advantages**

- Balanced distribution of 13 drop-shaped, 2 large and 4 small round mixing wells as well as a smooth mixing surface.
- Newly developed drop shape: sharp-edged at the back for wiping the brush, tapering at the front to allow controlled dispensing of the stain on the brush surface.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>lay:art color</td>
<td>tray dimensions: 159 x 11 x 90 mm (6.26 x 0.43 x 3.55”), housing size: 211 x 28 x 147 mm (8.31 x 1.10 x 5.79”)</td>
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</tr>
<tr>
<td>Labeling foil</td>
<td>color, 3 pcs.</td>
<td>No. 10470100</td>
</tr>
</tbody>
</table>

Rainbow

Glazed palette material with perforated wells prevents the porcelain from drying-out during the working process.

**Advantages**

- Capillary effect to the wells (2 holes each) moistens the porcelain.
- Very smooth palette surface increases the service-life of the porcelain brush.
- Continuous use of porcelain due to air-tight lid.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainbow incl. lid and acrylic tray</td>
<td>tray dimensions: ≈ 183 x 105 mm (7.20 x 4.13”)</td>
<td>No. 10580000</td>
</tr>
</tbody>
</table>

Porcelain mixing palette

Porcelain mixing palette for porcelain and stains.

**Advantages**

- Fully glazed palette with tapered wells.
- Various well sizes for individual portions of porcelain.
- 6 round wells for stains.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porcelain mixing palette incl. lid</td>
<td>tray dimensions: ≈ 155 x 95 mm (6.10 x 3.74”)</td>
<td>No. 10510000</td>
</tr>
</tbody>
</table>
Stain-Mix

Stain mixing tray for porcelain and acrylic stains.

Advantages
- With black lid for light curing stains.
- 30 small wells with sharp edges for wiping the brush.
- 1 large well for glaze liquid.

Melody

The mixing tray for porcelain stains.

Advantages
- 16 sloped wells for stains.
- 4 flat wells for individual mixing of stains.
- Separate well for mixing liquid.

Ordering information

Stain-Mix incl. black lid, tray dimensions: ≈ 155 x 95 mm (6.10 x 3.74") No. 10650100

Ordering information

Melody incl. lid and acrylic tray, tray dimensions: ≈ 143 x 85 mm (5.63 x 3.35") No. 10580100

lay:art Field report

What a refreshing, clean and artistic feeling the Renfert lay:art range brings to dental technology ... it combines beautiful design with such clever functionality that it turns even the mundane into something special. Every ceramist needs a bit of daily inspiration for creating beautiful and natural restorations (…)

Read more in our Blog.
blog.renfert.com

#RenfertBlog #DTKnowHow #lay:art
Developing a very personal style.

> lay:art Brushes
Brushes for artistic freedom

lay:art brushes combine both optical and technical advantages to facilitate creative and esthetic working.

This is what makes work easier

1. high tension
2. extremely durable bristles
3. elastic, resistant tips
4. ergonomic shape & soft touch
5. integrated anti-roll

Wide selection for individualists

Choice of two or three types of tips depending on the size: slimline tip contour, bold tip contour and short conical tip contour.

Take advantage of permanent quality

Only the longest, finest hairs from the tail of the male Siberian weasel are used for the lay:art style brushes. This hair is particularly resistant and elastic. The brush tip remains extremely stable and firm thanks to a special binding technique.

Apply with the finest tip

A brush tip made from fine, tapering and uniformly long hair reduces the loading on the individual hairs and deflects the forces acting on the brush to the side. This increases the tension and service life.

Overview Brushes

<table>
<thead>
<tr>
<th>Overview Brushes</th>
<th>Natural hair</th>
<th>Synthetic hair</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>lay:art style</td>
<td>✔</td>
<td>–</td>
<td>106</td>
</tr>
<tr>
<td>Genius</td>
<td>✔</td>
<td>–</td>
<td>108</td>
</tr>
<tr>
<td>Profi</td>
<td>✔</td>
<td>–</td>
<td>109</td>
</tr>
<tr>
<td>Kolinsky</td>
<td>✔</td>
<td>–</td>
<td>109</td>
</tr>
<tr>
<td>Basic Line</td>
<td>✔</td>
<td>–</td>
<td>110</td>
</tr>
<tr>
<td>Ceramicus</td>
<td>–</td>
<td>✔</td>
<td>110</td>
</tr>
<tr>
<td>Takamishi</td>
<td>–</td>
<td>✔</td>
<td>111</td>
</tr>
<tr>
<td>Squirrel hair</td>
<td>✔</td>
<td>–</td>
<td>111</td>
</tr>
<tr>
<td>Combi wax brush</td>
<td>✔</td>
<td>✔</td>
<td>111</td>
</tr>
</tbody>
</table>

You can find the complete range of lay:art mixing trays on the following pages.

making work easy for me means ...

... that the very stable brush tip does not become more blunt with use, but retains its shape.

Cim Özyurt
Product Management,
Dental Technician
lay:art style

Natural bristle brush

lay:art style natural hair brushes provide premium quality for the highest demands. An innovative manufacturing technique achieves maximum values in terms of tension, dimensional stability and durability of the brush tip.

The ergonomic handle design with Soft Touch is optimally balanced and sits perfectly in the hand.

Advantages

- Top quality with natural hair for consistent working comfort at the highest level.
- 10 sizes with different shape concepts, perfectly coordinated to individual requirements.
- The Big Brush technique with sizes 8, 6 and 4 increases the moisture reserve and tension.

Ordering information

lay:art style set with 1 piece each of opaque, color, brush size 2

1. lay:art style size 2, 2 pieces  
   No. 1725 0002
2. lay:art style size 4 slim, 1 piece  
   No. 1725 0004
3. lay:art style size 4 bold, 1 piece  
   No. 1725 0014
4. lay:art style size 4 cone, 1 piece  
   No. 1725 0040
5. lay:art style size 6 slim, 1 piece  
   No. 1725 0006
6. lay:art style size 6 bold, 1 piece  
   No. 1725 0016
7. lay:art style size 8 slim, 1 piece  
   No. 1725 0008
8. lay:art style size 8 bold, 1 piece  
   No. 1725 0018
9. lay:art style color, 2 pieces  
   No. 1725 0000
10. lay:art style opaque, 2 pieces  
   No. 1725 0001

Further information

www.lay-art.de
Diverse selection for individualists
The different sizes reflect the required amounts of water and porcelain per work cycle. Two or three shapes of brushes can be selected in the sizes 8, 6, and 4.

**Slim:** Slim shape of brush in the upper third provides minimal moisture release and aids delicate building up.

**Bold:** Bold shape of brush in the upper third provides higher moisture release and aids the uptake of large amounts of porcelain.

**Cone (4):** Short conical brush shape enables precise building up and targeted reduction thanks to maximum firmness.

The optimal addition – available as a practical set or individually

**Size 2:** Is ideal for the exact application of small amounts.

**Opaque:** The perfect combination of thick and long hairs (7.5 mm / 0.29”). It nestles on the framework surface and ensures an effective, uniform opaque and liner application.

**Color – The staining brush:** High strength right into the tip for targeted application of perfect shade accents and specific details.

Tip before first use!
Before using the brush for the first time, remove the brush gel made from gum arabic, thoroughly. Break the solid, dry gel with your fingers and stroke the hair of the brush several times in quick movements over your hand. Then swirl the brush in a glass of water and clean on the wall of the water glass using rotating movements. Before each build-up, wet the brush hair thoroughly.
Genius
Natural bristle brush with protective function

High quality, natural hair brushes in a modern design with a protective function integrated in the handle. In order for the brush hair to have a high level of strength, shape stability and longevity, Renfert uses a unique manufacturing technique.

Advantages
- Brush hair has a long service life due to an innovative protective function.
- Slim tip shape due to the high quality brush hair.
- Especially economical due to easily interchangeable brush inserts.

Details
- The protective function can be easily activated via a smooth rotation mechanism.
- Controlled drying process due to the ventilated protective function.
- Consistent haptics for all holding positions.
- Integrated roll-away protection.

Ordering information

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Genius set with 4 brush sizes (2, 4, 6, 8)*</td>
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<td>No. 1715 0000</td>
</tr>
<tr>
<td>1 Genius size 2, 1 piece *</td>
<td></td>
<td>No. 1715 0002</td>
</tr>
<tr>
<td>2 Genius size 4, 1 piece *</td>
<td></td>
<td>No. 1715 0004</td>
</tr>
<tr>
<td>3 Genius size 6, 1 piece *</td>
<td></td>
<td>No. 1715 0006</td>
</tr>
<tr>
<td>4 Genius size 8, 1 piece *</td>
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<td>No. 1715 0008</td>
</tr>
<tr>
<td>Genius refill, size 2, 2 pieces *</td>
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<td>No. 1715 1002</td>
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<td>Genius refill, size 4, 2 pieces *</td>
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<td>No. 1715 1004</td>
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<tr>
<td>Genius refill, size 6, 2 pieces *</td>
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<tr>
<td>Genius refill, size 8, 2 pieces *</td>
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<td>No. 1715 1008</td>
</tr>
</tbody>
</table>

* Available 2017
MIXING TRAYS & BRUSHES

Profi
Natural bristle brush

High quality porcelain brush made from premium quality Kolinsky natural bristles.

Advantages
- Weight incorporated in shaft gives optimum balance.
- Comfortable to hold due to ergonomic handle.

Ordering information

Profi set with 6 brush sizes (without opaquing brush) No. 17110100
1 Profi size 4, 2 pieces No. 17110004
2 Profi size 6, 1 piece No. 17110006
3 Profi size 8, 1 piece No. 17110008
4 Profi cleaning brush, 2 pieces No. 17110105
5 Profi glazing brush, 2 pieces No. 17110106
6 Profi staining brush size 2/0, 2 pieces No. 17110120
7 Profi opaquing brush, 2 pieces No. 17110200

Kolinsky
Natural bristle brush

Natural bristle brush made from Kolinsky red sable bristles – quality and aesthetics combined.

Advantages
- Fine, flexible brush tip.
- Optimum liquid reservoir.
- 6 different sizes for individual uses.

Ordering information

Kolinsky set with 6 brush sizes (1, 2, 4, 6, 8, 1/0) No. 17131000
1 Kolinsky size 1, 2 pieces No. 17131001
2 Kolinsky size 2, 2 pieces No. 17131002
3 Kolinsky size 4, 2 pieces No. 17131004
4 Kolinsky size 6, 2 pieces No. 17131006
5 Kolinsky size 8, 2 pieces No. 17131008
6 Kolinsky size 1/0, 2 pieces No. 17131110
MIXING TRAYS & BRUSHES

Basic line
Natural bristle brush

The main difference between Basic line and other low cost dental brushes is the choice of material and manufacturing method.

Advantages
- Best quality selection of red sable natural bristles.
- A high degree of elasticity enables either large or small amounts of porcelain to be lifted.
- Large water reservoir with even moisture dispensing.

Ceramicus
Synthetic bristle brush

Porcelain brush made from a special, synthetic microhair structure.

Advantages
- Great resilience of the bristles.
- Very densely packed bristles.
- No bothersome splaying of the bristles after every porcelain build-up.

Ordering information

Basic line set with 6 brush sizes (1, 2, 4, 6, 8, 1/0) No. 1717 0000
1 Basic line size 1, 2 pieces No. 1717 0001
2 Basic line size 2, 2 pieces No. 1717 0002
3 Basic line size 4, 2 pieces No. 1717 0004
4 Basic line size 6, 2 pieces No. 1717 0006
5 Basic line size 7, 2 pieces No. 1717 0007
6 Basic line size 8, 2 pieces No. 1717 0008
7 Basic line size 1/0, 2 pieces No. 1717 0010

Ceramicus set with 6 brush sizes (1, 2, 4, 6, 8, 1/0) No. 1716 0000
1 Ceramicus staining brush set size 00 and 000, 2 pieces each No. 1703 0000
2 Ceramicus size 1, 2 pieces No. 1716 0001
3 Ceramicus size 2, 2 pieces No. 1716 0002
4 Ceramicus size 4, 2 pieces No. 1716 0004
5 Ceramicus size 6, 1 piece No. 1716 0006
6 Ceramicus size 8, 1 piece No. 1716 0008
7 Ceramicus Big Brush, 1 piece No. 1716 0088
8 Ceramicus size 1/0, 2 pieces No. 1716 0110
9 Ceramicus size 2/0, 2 pieces No. 1716 0120
10 Ceramicus opaquing brush, 2 pieces No. 1716 0200
Takanishi

Synthetic bristle brush

Very high quality synthetic bristle brush which has been well proven for many years for the optimal porcelain build-up.

Advantages
- The brush tip remains stable.
- Highly flexible brush bristles.
- Ideal for reducing porcelain.

Squirrel hair brush

According to Stefan Borenstein. Fine, wide surface brush for smoothing and cleaning the porcelain model.

Advantages
- Very soft brush bristles.
- Large surface brush.
- Comfortable access to interdental spaces using narrow edge.

Combi wax brush

The dual purpose brush for the most common uses within crown and bridge and partial denture technique.

Advantages
- Large brush: for smoothing and cleaning wax models.
- Small brush: for isolating dies or plaster models.
"Jörg, What is the reason behind your enthusiasm for dental technology?"

"Simply said it is my love to the smallest details. I believe that inside every dental technician there is a goldsmith, toolmaker or watchmaker. I am particularly aware of this when carrying out precision attachment work. To me this is not just fulfilling a task; I perform this part of my work with absolute pleasure."
What role does precision play in your work?

“Naturally, it is always a personal and also welcome challenge to improve your own precision! The Calipretto CR precision measuring instrument, for example helps me in this way. But it is also a necessity, because my aim is to fabricate precise, delicate, dimensionally exact and accurately fitting restorations. This is not merely important for the subsequent esthetics of the restoration; it is also a guarantee that the functional details are correct. Precision is never an end in itself, but in the best case scenario my careful work ensures that patients never think about their restoration because they don’t notice it.”

What do you like about your instruments?

“I think it is important that my instruments are easy to use and low-maintenance. When I pick up an instrument it should feel good in my hand. I like it when instruments save time and increase the cost-effectiveness of my work. For example separating discs, which simply last longer, such as the Dynex discs. A good instrument proves itself in continuous use. But “suitable for daily use” also means “versatile” for me. Because during daily routines I require instruments, which do not inhibit my personal style but support it by providing a wide choice.”
Overview Hand Instruments

<table>
<thead>
<tr>
<th>Description</th>
<th>Porcelain</th>
<th>Wax</th>
<th>Acrylics</th>
<th>Page</th>
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<tbody>
<tr>
<td>ERGO Ceramic</td>
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<td></td>
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<tr>
<td>ERGO Acryl</td>
<td></td>
<td></td>
<td>✔</td>
<td>115</td>
</tr>
<tr>
<td>ERGO Wax</td>
<td></td>
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<td>115</td>
</tr>
<tr>
<td>Metrical scoops</td>
<td>✔</td>
<td></td>
<td></td>
<td>116</td>
</tr>
<tr>
<td>Agate spatula</td>
<td>✔</td>
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<td></td>
<td>116</td>
</tr>
<tr>
<td>Universal instrument</td>
<td>✔</td>
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<td>Instrument set Deluxe</td>
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<td>Instrument set Standard</td>
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<td>117</td>
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<tr>
<td>Keramogrip</td>
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<tr>
<td>Jacketgrip</td>
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Overview Measuring Instruments

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
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<tbody>
<tr>
<td>Calipretto CR</td>
<td>119</td>
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<tr>
<td>Calipretto S</td>
<td>120</td>
</tr>
<tr>
<td>Calipers</td>
<td>120</td>
</tr>
</tbody>
</table>

ERGO Ceramic

Ceramic modeling instrument

Double-sided special instruments for modelling porcelain with three replaceable instrument tips.

Instrument No. 1

Large blade for separating and reducing (replaceable). A large claw scraper for precise resection when modelling the tooth shape.

Instrument No. 2

Fine nerve needle for creating fissures and enamel cracks (replaceable). Small blade for working on areas which are difficult to reach (replaceable).

Ordering information

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERGO Ceramic Set with 2 instruments</td>
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</tr>
<tr>
<td>ERGO Ceramic Instrument No. 1, 1 piece</td>
<td>No. 11611100</td>
</tr>
<tr>
<td>ERGO Ceramic Instrument No. 2, 1 piece</td>
<td>No. 11611200</td>
</tr>
<tr>
<td>Spring tip „large blade“, 2 pieces</td>
<td>No. 11611110</td>
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<tr>
<td>Spring tip „small blade“, 2 pieces</td>
<td>No. 11611210</td>
</tr>
<tr>
<td>Spring tip „fine nerve needle“, 2 pieces</td>
<td>No. 11611220</td>
</tr>
</tbody>
</table>
ERGO Acryl
Instrument for veneering composite

Double-sided modelling instruments ideal for acrylic facings.

Advantages
- Three individual flexible blades, 0.2 mm thick.
- Flexible blades are secured to the instrument handle by a threaded connection and can be easily exchanged, as required.
- Ideal for applying and modelling modern facing acrylics.

ERGO Wax
Wax modeling instrument

ERGO wax instruments are characterised by the wide variety of applications for which they can be employed and by their individual adaptability. The handle design is different for each instrument, thus making them unique.

Advantages
- Instruments can be ground according to individual needs.
- Probes, blades and scrapers made from handground stainless steel.
- Fine, anodised handles, comfortable to hold, heat-resistant and insulated.

Ordering information

ERGO Acryl

1. ERGO Acryl Instrument, No. 1, 1 piece No. 10521100
2. ERGO Acryl Instrument, No. 2, 1 piece No. 10521200
3. ERGO Acryl Instrument, No. 3, 1 piece No. 10521300
A. Flexible blade tip, No. 1, 2 pieces No. 10521110
B. Flexible blade tip, No. 2, 2 pieces No. 10521210
C. Flexible blade tip, No. 3, 2 pieces No. 10521310

ERGO Wax

1. ERGO Wax Instrument No. 1, 1 piece No. 10342001
2. ERGO Wax Instrument No. 2, 1 piece No. 10342002
3. ERGO Wax Instrument No. 3, 1 piece No. 10342003
4. ERGO Wax Instrument No. 4, 1 piece No. 10342004
5. ERGO Wax Instrument No. 5, 1 piece No. 10342005
**Metrical scoops**

Stainless steel metrical scoops for precise measuring of porcelain powders.

**Advantages**
- Slim shape for easy access to small bottles of porcelain.
- For reproducible, individual porcelain mixtures.
- 4 different scoop sizes: 0.02 g; 0.05 g; 0.10 g; 0.40 g

**Ordering information**

Metrical scoops with 4 different scoop sizes, 2 pieces  
No. 10530000

---

**Agate spatula**

Agate instrument for mixing porcelain masses.

**Advantages**
- The porcelain cannot be contaminated by metal flaking off instruments.
- Both ends can be used.
- Ideal if used in combination with the lay:art mixing trays series.

**Ordering information**

Agate spatula, 1 piece  
No. 11570000

---

**Multipurpose instrument**

High quality instrument with tension adjustor and 5 different inserts for use within various dental technology applications.

**Advantages**
- Blade change within seconds.
- Super-thin blades for separating porcelain.
- Light instrument with non-slip grip.

**Ordering information**

Multipurpose instrument with 1 handle and each 1 blade No. 10300100, 10500100 and 10500600  
No. 10301000

1 | Blades broad, 10 pieces  
No. 10300100

2 | Chisel, 6 pieces  
No. 10320100

3 | Blades narrow, 10 pieces  
No. 10310100

4 | Blades smooth, 8 pieces  
No. 10500100

5 | Blades serrated, 8 pieces  
No. 10500600
Instrument set
Standard & Deluxe

High quality set including instruments, brushes and pliers for all areas of use within dental technology. The standard set contains everything necessary for the novice dental technician.

Ordering information
Instrument set Standard with contents as indicated No. 11510000
Instrument set Deluxe with contents as indicated No. 11540000

Contents set Standard
ERGO Wax instrument No. 1, ERGO Wax instrument No. 3, ERGO Wax instrument No. 4, Tweezers, rust-proof, 15.5 cm, Combi wax brush, Multi-purpose instrument with blades, Plaster knife, 13 cm, Wax knife, large, Wax knife, small, Aderer clasp bending pliers, slender, Pointed pliers, grooved, Foil scissors, Soldering tweezers, 16 cm, Standard callipers.

Contents set Deluxe
Tweezers rust-proof, 15.5 cm, Sakura marking pen, Combi wax brush, Wax knife small, ERGO Wax instrument No. 1, ERGO Wax instrument No. 3, ERGO Wax instrument No. 4, Multipurpose instrument with blades, ERGO Acryl instrument kit, 3 pieces, Takanishi brush size 4, Takanishi brush size 6, Wax knife large, Soldering tweezers, 16 cm, Aderer clasp bending pliers slender, Curved haemostats, Plaster knife, 13 cm, Standard callipers, Pointed pliers grooved, Foil scissors.
Keramogrip
Holding instrument with diamond tips

Holders for crowns and bridges during porcelain or acrylic work.

**Advantages**
- Replaceable, fine diamond tips.
- Elliptical shaped tips suitable for small crowns.
- Finely graduated gripping ratchet.

**Ordering information**

<table>
<thead>
<tr>
<th>Keramogrip curved</th>
<th>No. 1109 0300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement tips, 2 pieces</td>
<td>No. 1109 0100</td>
</tr>
</tbody>
</table>

Jacketgrip
Holding instrument with diamond tips

Tweezers for a secure hold on crowns and bridges.

**Advantages**
- Replaceable, fine diamond tips.
- Elliptical shaped tips suitable for small crowns.
- Infinitely adjustable with the thumb screw.

**Ordering information**

<table>
<thead>
<tr>
<th>Jacketgrip curved</th>
<th>No. 1105 0300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement tips, 2 pieces</td>
<td>No. 1109 0100</td>
</tr>
</tbody>
</table>
Calipretto CR

Precision measuring instrument inspired by Attilio Sommella

Precise dial calipers with measuring tips made from high performance ATZ (Alumina Toughened Zirconia) ceramic, specially designed for measuring the wall thickness of full ceramic dental restorations.

**Ordering information**

Calipretto CR, incl. measuring tip top and measuring tip bottom, hexagon key

No. 11231000

**Product video**

www.youtu.be/6pwjT_rzo44

#RenfertBlog

blog.renfert.com

“*The Calipretto CR with its modified tips is a fantastic tool: it is ergonomic, easy to use and with its completely renewed and improved features for versatility and comfort it is the ideal instrument!*”

Attilio Sommella, Dental Technician

**Advantages**

- Efficient processing due to metal-free measuring.
- Long service life due to practically indestructible ATZ measuring tips.
- Measuring data can be clearly seen in 1/10 mm steps.
- The smallest areas can be measured with a tip diameter of only 0.8 mm.

**Precise measuring – making work easy**

Metal tips leave metal marks on hard, ceramic surfaces. This results in additional working steps or in the worst case, a completely new production. With the Calipretto CR, the ceramic surface is only touched with tips made from ATZ high performance ceramic. No unwanted additional working steps are required to clean the object, firing faults caused by metal residues are a thing of the past.
Calipretto S
Precision measuring instrument

Measuring system for precise wall thickness of dental objects.

Advantages
- Interchangeable special tips.
- Standard tips: all-purpose use within normal space conditions.
- Modified tips: specifically for use in slender anterior crowns.

Calipers
Precision measuring instrument

Precision instrument which can be read from both sides.

Advantages
- Rust-proof special steel.
- Slender measuring tips.
- Reading accuracy of up to 0.1 mm and measuring range of 0 to 10 mm (0–0.39”).

Ordering information
Calipretto S incl. 3 pairs of tips, adjusting sleeve and Allen key No. 1122 1000
Measuring tips, 1 pair No. 1122 1001
1 Measuring tips, modified, 1 pair No. 1122 1002
2 Measuring discs for casting wax, 1 pair No. 1122 1003
Protective glass for Calipretto S No. 1122 1004

Ordering information
Calipers, 1 piece No. 1119 0000
### Overview Separating Discs

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Max. revolutions</th>
<th>Ceramics</th>
<th>Titanium</th>
<th>Precious metals</th>
<th>Modell casting/ NPM</th>
<th>Plaster</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
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<td>50 000 /min.</td>
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<td>126</td>
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<td>✔</td>
<td>–</td>
<td>128</td>
</tr>
<tr>
<td>Dynex</td>
<td>40 x 1.00 mm</td>
<td>38 000 /min.</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✔</td>
<td>–</td>
<td>128</td>
</tr>
<tr>
<td>Plastercut</td>
<td>30 x 0.30 mm</td>
<td>10 000 /min.</td>
<td>–</td>
<td>–</td>
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<td>✔</td>
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<td>129</td>
</tr>
<tr>
<td>Plastercut</td>
<td>38 x 0.30 mm</td>
<td>10 000 /min.</td>
<td>–</td>
<td>–</td>
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<td>✔</td>
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<tr>
<td>Plastercut</td>
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<td>10 000 /min.</td>
<td>–</td>
<td>–</td>
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<td>129</td>
</tr>
<tr>
<td>Bi-Flex</td>
<td>22 x 0.15 mm</td>
<td>15 000 /min.</td>
<td>✔</td>
<td>–</td>
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<tr>
<td>Turboflex S</td>
<td>19 x 0.15 mm</td>
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<tr>
<td>Ultra cut</td>
<td>20 x 0.15 mm</td>
<td>15 000 /min.</td>
<td>✔</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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</tr>
<tr>
<td>Separating disc for porcelain</td>
<td>22 x 0.20 mm</td>
<td>20 000 /min.</td>
<td>✔</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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</tr>
<tr>
<td>Separating disc precious metal/ porcelain</td>
<td>23 x 0.30 mm</td>
<td>20 000 /min.</td>
<td>✔</td>
<td>–</td>
<td>✔</td>
<td>–</td>
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<td>131</td>
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<tr>
<td>Ultra-Fine</td>
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<td>20 000 /min.</td>
<td>–</td>
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<tr>
<td>Separating disc PM</td>
<td>22 x 0.30 mm</td>
<td>24 000 /min.</td>
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<td>–</td>
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<tr>
<td>Glass-fibre reinforced separating discs</td>
<td>40 x 1.00 mm</td>
<td>25 000 /min.</td>
<td>–</td>
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<tr>
<td>Standard separating disc</td>
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<tr>
<td>Standard separating disc</td>
<td>37 x 1.00 mm</td>
<td>25 000 /min.</td>
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<td>✔</td>
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<tr>
<td>Standard separating disc</td>
<td>32 x 1.60 mm</td>
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<td>132</td>
</tr>
<tr>
<td>Standard separating disc</td>
<td>24 x 0.60 mm</td>
<td>25 000 /min.</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✔</td>
<td>–</td>
<td>132</td>
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<tr>
<td>Grinding disc</td>
<td>25 x 3.00 mm</td>
<td>25 000 /min.</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✔</td>
<td>–</td>
<td>132</td>
</tr>
<tr>
<td>Grinding disc</td>
<td>35 x 3.00 mm</td>
<td>25 000 /min.</td>
<td>–</td>
<td>–</td>
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<td>✔</td>
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<td>132</td>
</tr>
</tbody>
</table>
Work more quickly.
With a long service life.

→ Dynex separating discs
Discs, providing performance at your fingertips

Renfert separating and grinding discs are absolutely precise, high-performance tools – the result of 40 years of intensive and permanent development work.

This is what makes work easier

1. large assortment for all materials
2. maximum precision at high speeds
3. long service life
4. minimum vibration
5. reliable and robust

Work more quickly and accurately

You work faster and more precisely when trimming, separating or preparing with these high-speed instruments. Selected raw materials, optimum dimensional accuracy, extremely high cutting speed and very low heat generation make this possible.

Be flexible

Your framework can be fabricated using any type of ceramic, precious or non-precious metal alloys, CrCo alloys or titanium alloys – you will find high-quality abrasives in the Dynex range for all applications.

Put your trust in robustness

All Dynex separating and grinding discs have very long service lives. This is because all designs, even the ultra-thin versions, are reinforced with double glass-fiber. The reinforcement is a component of the disc core and is fully fused with the carrier material.

... that the low vibration and heat generation prevent cracks and splitting off with sensitive materials such as lithium disilicate and zirconia.

Manfred Tauber
Product Management
Master Dental Technician

A meaningful comparison:
Dynex separating discs prove their unbeatable service lives, convince yourself ...
Dynex Brilliant

Separating and cutting discs for ceramic

Thin and flexible diamond grinding and separating discs with glass fiber reinforcement, created for separating and trimming porcelain, zircon oxide and lithium disilicate. Available in three thicknesses.

Advantages
- Extremely thin and flexible for precise separation of interdental spaces and gentle trimming work.
- Quick and reliable separation of press sprues.
- Minimum vibration and heat build-up, in order to prevent cracks or splitting off on ceramic material during grinding.

Dynex Titanium

Separating and cutting discs for titanium

Flexible and robust glass fiber reinforced separating and grinding discs especially created for separating and grinding implant super structures such as abutments, bars and frameworks made of titanium or titanium alloys.

Advantages
- Flexible and stable for quick and precise grinding of implant super structures.
- Excellent cutting and grinding performance especially when shortening abutments.

Dynex Titanium 22 x 0.3 mm
- Particularly suited for cutting and grinding thin areas and small parts of the restoration.

Dynex Titanium 26 x 0.3 mm
- Ideal for cutting and grinding solid areas and larger parts of the restoration.

Ordering information

Dynex Brilliant, Ø 20 mm (0.79”), thickness 0.20 mm (0.01”), 10 pieces  No. 56.0220
Dynex Brilliant, Ø 20 mm (0.79”), thickness 0.25 mm (0.01”), 10 pieces  No. 56.2520
Dynex Brilliant, Ø 20 mm (0.79”), thickness 0.30 mm (0.01”), 10 pieces  No. 56.0320

Dynex Titanium, Ø 22 mm (0.87”), thickness 0.30 mm (0.01”), 20 pieces  No. 58.0322
Dynex Titanium, Ø 26 mm (1.02”), thickness 0.30 mm (0.01”), 20 pieces  No. 58.0326

Technical data

Max. rpm 50,000 1/min

Size 1:1
Dynex

Separating and cutting disc for precious and non-precious metal alloys

Flexible and robust, glass fiber reinforced separating and grinding discs.

**Technical data**

Max. rpm: 50,000 1/min

**Ordering information**

- **Dynex, Ø 22 mm (0.87”), thickness 0.20 mm (0.01”), 20 pieces** No. 570222
- **Dynex, Ø 22 mm (0.87”), thickness 0.25 mm (0.01”), 20 pieces** No. 572522
- **Dynex, Ø 26 mm (1.02”), thickness 0.25 mm (0.01”), 20 pieces** No. 572526
- **Dynex, Ø 22 mm (0.87”), thickness 0.30 mm (0.01”), 20 pieces** No. 570322
- **Dynex, Ø 26 mm (1.02”), thickness 0.30 mm (0.01”), 20 pieces** No. 570326

**Especially for precious metal alloys**

**Advantages**

- The least material loss when separating and finishing precious metal alloys.
- Extremely thin and flexible for quick separation and precise separation of interdental spaces.

**Ideal for separating and grinding**

- **Dynex 22 x 0.2 mm**
  - thin sprues (< 3 mm) and small areas of a restoration.
- **Dynex 22 x 0.25 mm**
  - medium sized sprues (< 3.5 mm) and small areas of a restoration.
- **Dynex 26 x 0.25 mm**
  - medium sized sprues (< 3.5 mm) and larger areas of a restoration.

**Especially for precious and non-precious alloys**

**Advantages**

- Finishing of several materials only with one disc type.
- Low material loss when separating and finishing precious metal alloy units.

**Ideal for separating and grinding**

- **Dynex 22 x 0.3 mm**
  - thick sprues (< 5 mm) and small areas of a restoration.
- **Dynex 26 x 0.3 mm**
  - thick sprues (< 5 mm) and larger areas of a restoration.
Dynex
Separating and cutting discs for non-precious metal alloys

Flexible and robust glass fiber reinforced separating and grinding discs, especially made for cutting and grinding non-precious metal alloys. Available in four sizes.

Advantages
- Good strength even with extreme lateral pressure.
- Economical disc consumption due to reduced wear.

Dynex 22 x 0.4 mm / Dynex 22 x 0.5 mm
- Ideal for separating thick sprues (< 5 mm) and grinding small areas such as shape correction.

Dynex 26 x 0.4 mm / Dynex 26 x 0.5 mm
- Ideal for separating thick sprues (< 5 mm) and grinding larger areas on a restoration.

“We use the separating discs with less than 20.000 rpm and experience very good durability and stability. It is wear-resistant and generates little heat.”

Noelia Heras, Dental Technician

Technical data

| Max. rpm | 50000 1/min |

Ordering information

| Dynex, Ø 22 mm (0.87”), thickness 0.40 mm (0.02”), 20 pieces | No. 570422 |
| Dynex, Ø 22 mm (0.87”), thickness 0.50 mm (0.02”), 20 pieces | No. 570522 |
| Dynex, Ø 26 mm (1.02”), thickness 0.40 mm (0.02”), 20 pieces | No. 570426 |
| Dynex, Ø 26 mm (1.02”), thickness 0.50 mm (0.02”), 20 pieces | No. 570526 |
Dynex
Separating and cutting disc for non-precious metal alloys and model casting alloys

Very robust, glass fiber reinforced separating and grinding discs, especially made for separating, cutting and grinding non-precious metal and model casting alloys.

Technical data
Max. rpm 50 000 1/min

Ordering information
Dynex, Ø 22 mm (0.87”), thickness 0.70 mm (0.03”), 20 pieces No. 57 0722
Dynex, Ø 22 mm (0.87”), thickness 1.00 mm (0.04”), 25 pieces No. 57 1022
Dynex, Ø 26 mm (1.02”), thickness 0.70 mm (0.03”), 20 pieces No. 57 0726
Dynex, Ø 26 mm (1.02”), thickness 1.00 mm (0.04”), 20 pieces No. 57 1026

“Renfert stands for quality, which is part of my life and of my success. The Dynex separating discs make my work much easier. Thanks to the high quality, the long service life and flexibility, I am able to reach my goals easily and reliably.”

Ihssan Hamadeh, Laboratory Owner

Advantages
- Very robust, even when under extreme strain such as lateral pressure and high rpm.

Dynex 22 x 0.7 mm / Dynex 22 x 1.0 mm
- Ideal for separating and grinding small areas such as shape correction.

Dynex 26 x 0.7 mm / Dynex 26 x 1.0 mm
- Ideal for separating and grinding as well as treating larger areas on a restoration.
Dynex

Separating and cutting disc for non-precious metal alloys and model casting alloys

Extremely robust glass fiber reinforced separating and grinding discs, especially made for model casting alloys, non-precious metal alloys and for cutting through press ceramic investment rings.

“This separating disc has facilitated and optimized our everyday work. The materials are ground gently, and this stable and durable separating disc can be guided with good control.”

Luigi de Stefano, Dental Technician

Dynex 40 x 0.4 mm
Ideal for separating solid sprues and grinding larger areas on a restoration.

Dynex 40 x 0.5 mm
Ideal for separating solid sprues, grinding larger areas on a restoration and low-vibration cutting of press ceramic investment rings.

Dynex 40 x 0.7 mm and 40 x 1.0 mm
Ideal for separating solid sprues, processing model casting alloys and grinding larger areas on a restoration. Low-vibration cutting of press ceramic investment rings. Only gentle pressure required.

Technical data
Max. rpm 38 000 1/min

Ordering information
- Dynex, Ø 40 mm (1.58''), thickness 0.40 mm (0.02''), 20 pieces No. 57 0440
- Dynex, Ø 40 mm (1.58''), thickness 0.50 mm (0.02''), 20 pieces No. 57 0540
- Dynex, Ø 40 mm (1.58''), thickness 0.70 mm (0.03''), 20 pieces No. 57 0740
- Dynex, Ø 40 mm (1.57''), thickness 1.00 mm (0.04''), 20 pieces No. 57 1040
Plastercut
Diamond coated separating disc for cutting out dies from the plaster arch.

**Advantages**
- Quick and precise cut without destroying the edges.
- Stable carrier material ensures reduced noise level.
- Perforations within the disc ensure transparency while cutting.

**Ordering information**
- Plastercut mounted, Ø 30 mm (1.18”), thickness 0.3 mm (0.01”), max. rpm 10 000 1/min, 1 piece
  No. 33 1300
- Plastercut mounted, Ø 38 mm (1.5”), thickness 0.3 mm (0.01”), Max. rpm 10 000 1/min, 1 piece
  No. 33 1380
- Plastercut mounted, Ø 45 mm (1.77”), thickness 0.35 mm (0.01”), Max. rpm 10 000 1/min, 1 piece
  No. 33 1450

Bi-Flex
Diamond coated separating disc for porcelain.

**Advantages**
- Highly flexible separating disc for porcelain with coating on both sides.
- Fine diamond coating for fine separation and contouring.

**Ordering information**
- Bi-Flex mounted, Ø 22 mm (0.87”), thickness 0.15 mm (0.01”), max. rpm 15 000 1/min, 1 piece
  No. 27 1000

Turbo-Flex S
A serrated separating disc with double-sided diamond coating for separating porcelain.

**Advantages**
- Notches ensure cooling effect and dissipation of grinding dust.
- High flexibility ideal for creating interdental spaces.

**Ordering information**
- Turbo-Flex S mounted, Ø 19 mm (0.75”), thickness 0.15 mm (0.01”), max. rpm 15 000 1/min, 1 piece
  No. 29 0100
Ultracut

Sintered diamond separating disc. Especially suitable for separating porcelain.

**Advantages**
- Highest service life due to diamond sintered layer.
- Best possible separations thanks to maximum flexibility.
- Fine grinding pattern due to dense diamond distribution.

**Ordering information**

| Ultracut mounted, Ø 20 mm (0.79’’), thickness 0.15 mm (0.01’’), max. rpm 15 000 1/min, 1 piece | No. 73 0000 |

Separating discs

For separating and finishing porcelain bridges.

**Advantages**
- For fine separation work.
- Low heat generation.

**Ordering information**

| Separating disc for porcelain, Ø 22 mm (0.87’’), thickness 0.2 mm (0.01’’), max. rpm 20 000 1/min, 50 pieces | No. 70 2000 |

**Materials of today work perfectly for the products of tomorrow**

Our lab has used products and equipment from Renfert for years for polishing and finishing of both single units and bridges fabricated using all-ceramic and metal. The purchase of a Sirona CAD/CAM unit, with which we extended the range of manufactured materials (…)

Read more in our Blog.
blog.renfert.com

#RenfertBlog #Disilicate #Zirconia #ChromeCobalt
Separating disc
Separating and cutting disc for precious metal and porcelain.

**Advantages**
- Suitable for the finest separation work.
- Leaves no dark cutting marks on the porcelain.
- Low consumption.

**Ultra-Fine**
Extremely thin, non-flexible separating discs for precious metals.

**Advantages**
- Extremely thin and non-flexible.
- Suitable for the finest separating work.
- Universal use for all precious metals.

**Separating disc**
Universal use for all precious metals.

**Advantages**
- Fine separation work.
- For grinding the transitions between metal and porcelain.

---

**Ordering information**
Separating disc precious metal / porcelain, Ø 22 mm (0.87"), thickness 0.3 mm (0.01"), max. rpm 22 000 1/min, 100 pieces

No. 74 0000

**Ordering information**
Ultra-Fine, Ø 22 mm (0.87"), thickness 0.17 mm (0.01"), max. rpm 20 000 1/min, 50 pieces

No. 71 0000

**Ordering information**
Separating disc PM, Ø 22 mm (0.87"), thickness 0.3 mm (0.01"), max. rpm 24 000 1/min, 100 pieces

No. 72 0000
Separating discs

This glass-fiber reinforced separating disc is suitable for finishing CoCr and non-precious metal alloys.

**Advantages**
- Especially strong cutting performance at extreme break resistance.
- Suitable for separating and cutting sprues.

**Ordering information**

Separating disc, Ø 40 mm (1.57"), thickness 1 mm (0.04"), max. rpm 25 000 1/min, 25 pieces

Ordering information

Standard separating discs

For separating sprues on chrome cobalt alloys.

**Advantages**
- Especially recommended for cutting sprues and processing cast metal frameworks.
- Long service life at heavy duty performance.

**Ordering information**

Separating disc, Ø 38 mm (1.49"), max. rpm 25 000 1/min, 100 pieces
Separating disc, Ø 37 mm (1.46"), max. rpm 25 000 1/min, 100 pieces
Separating disc, Ø 32 mm (1.26"), max. rpm 25 000 1/min, 100 pieces
Separating disc, Ø 24 mm (0.94"), max. rpm 25 000 1/min, 100 pieces

Grinding discs

Optimum processing of chrome cobalt frames via very aggressive grinding properties.

**Advantages**
- Effective use of the discs with the grinder.

**Ordering information**

Grinding disc, Ø 25 mm (0.99"), thickness 3 mm (0.12"), max. rpm 25 000 1/min, 100 pieces
Grinding disc, Ø 35 mm (1.38"), thickness 3 mm (0.12"), max. rpm 25 000 1/min, 100 pieces
## Overview Polishing Brushes for Polishing Lathe

<table>
<thead>
<tr>
<th>Description</th>
<th>Precious metals</th>
<th>Model casting/ non precious alloys</th>
<th>Veneering acrylic</th>
<th>Denture resin</th>
<th>Porcelain</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver wire brush</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>136</td>
</tr>
<tr>
<td>Narrow brush for CoCr</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>137</td>
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<tr>
<td>Chungking brush</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>137</td>
</tr>
<tr>
<td>Special brushes for chrome cobalt</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>137</td>
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<td>Slim</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>138</td>
</tr>
<tr>
<td>Linen buff</td>
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<td>✔</td>
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<tr>
<td>Pleated buff nettle-cloth</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>138</td>
</tr>
</tbody>
</table>

PREP. = Prepolishing | HL = High luster polishing | ✔ = Smoothing | ✔ = Polishing

## Overview Polishing Brushes for Handpieces

<table>
<thead>
<tr>
<th>Description</th>
<th>Precious metals</th>
<th>Model casting/ non precious alloys</th>
<th>Veneering acrylic</th>
<th>Denture resin</th>
<th>Porcelain</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polisoft A</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>134</td>
</tr>
<tr>
<td>Polisoft</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>134</td>
</tr>
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<td>Silicon polishers</td>
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<td>✔</td>
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<td>Goat hair brush</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>136</td>
</tr>
</tbody>
</table>

PREP. = Prepolishing | HL = High luster polishing | ✔ = Smoothing | ✔ = Polishing
Polisoft A
For gentle polishing and powerful smoothing of hard alloys.

**Advantages**
- Low emission of dust and noise.
- Produces matt polish and a dense surface.

**Ordering information**

Polisoft A, Ø 22 mm (0.87"), thickness 3 mm (0.12"),
max. rpm 15 000 1/min, 50 pieces
No. 900000

Polisoft
Effective polishing of precious and non-precious metal alloys.

**Advantages**
- Optimum alternative to rubber or silicone polishers.
- Quickly smoothes all metal surfaces.
- Virtually no dust or odor produced.

**Ordering information**

Polisoft, Ø 22 mm (0.87"), thickness 3 mm (0.12"),
max. rpm 15 000 1/min, 50 pieces
No. 910000

Silicone polishers
For pre-polishing porcelain and metal.

**Advantages**
- No smear build-up on porcelain.
- Ideal for the transition between metal and porcelain.

**Ordering information**

Silicone polishing wheels, Ø 22 mm (0.87"), thickness 3.2 mm (0.13"),
max. rpm 15 000 1/min, 100 pieces
No. 860000

**Suitable accessories**
Polishing agents → Pages 185–188
INSTRUMENTS / POLISHERS

Silver wire brushes

Abras ion-free pre-polishing of metal occlusal surfaces.

Advantages
- Occlusal and approximal contact points are maintained.
- Produces a silk-matt finish.
- Ideal preparation for the high-lustre polish.

Bison

This unique mixture of bristles ensures a powerful and quick high-lustre polish on alloys, porcelain and acrylic facings.

Advantages
- Long service-life thanks to dense, firm bristle arrangement.
- Particularly suitable for polishing occlusal surfaces and interdental spaces.
- Excellent take-up of polishing pastes.

Goat hair brush

For polishing precious metal and acrylic surfaces.

Advantages
- Good take-up of polishing paste for an excellent polishing result.

Ordering information

Silver wire brushes mounted, Ø 19 mm (0.75"), Ø shaft 2.35 mm (0.09"), max. rpm 5 000 1/min, 12 pieces
No. 166 0000

Bison mounted, Ø 14 mm (0.55"), max. rpm 20 000 1/min, 25 pieces
No. 763 1000
Bison mounted, Ø 14 mm (0.55"), max. rpm 20 000 1/min, 100 pieces
No. 763 1100
Bison mounted, Ø 18 mm (0.71"), max. rpm 15 000 1/min, 25 pieces
No. 766 1000
Bison mounted, Ø 18 mm (0.71"), max. rpm 15 000 1/min, 100 pieces
No. 766 1100
In general: Ø shaft 2.35 mm (0.09")

Goat hair brush mounted, Ø 19 mm (0.75"), Ø shaft 2.35 mm (0.09"), max. rpm 15 000 1/min, 12 pieces
No. 204 0000
Cotton buff

For high-luster polish on acrylic teeth and facings using the handpiece.

Advantages
- Optimum take-up of polishing paste, no sticking.
- Long service life.

Dia-Finish L

High-quality felt discs impregnated with fine diamond particles for polishing porcelain and facing acrylics.

Advantages
- Optimum combination of polishing felt and diamond paste.
- For high lustre polishing of porcelain.
- Polish without firing after occlusal grinding (Time-Saving!).

Silver wire brushes

For pre-polishing cast metal frameworks and palatal surfaces.

Advantages
- Does not remove surface – stippled effect remains intact.
- Silky matt shine of frames.
- Optimum handling due to 51 mm diameter.

Ordering information

Cotton buff mounted, Ø 22 mm (0.87”), Ø shaft 2.35 mm (0.09”), max. rpm 15 000 1/min, 12 pieces No. 205 1000

Dia-Finish L wheel, medium-hard, Ø 12 mm (0.47”), max. rpm 15 000 1/min, 12 pieces No. 400001
Dia-Finish L wheel, hard, Ø 12 mm (0.47”), max. rpm 15 000 1/min, 12 pieces No. 400101
Dia-Finish L, knife-edge, hard, Ø 12 mm (0.47”), max. rpm 15 000 1/min, 12 pieces No. 400201
In general: Ø shaft 2.35 mm (0.09”)

Silver wire brushes, Ø ~51 mm (2.01”), max. rpm 3 000 1/min, 2 pieces No. 196 0000
**Slender brushes**

The classic brush for polishing chrome cobalt or hard precious metals using a polishing unit.

**Advantages**
- Precise polishing via pointed brushes.
- Ideal for narrow places on frames.
- Highly resistant bristles for heavy duty use.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slender brushes, Ø ~36 mm (1.42&quot;), max. rpm 4000 1/min, 12 pieces</td>
<td></td>
<td>No. 787 1000</td>
</tr>
</tbody>
</table>

**Chungking brushes**

Polishing buff for pre-polishing chrome cobalt alloys.

**Advantages**
- Saves time due to dual action polishing effect thanks to the linen inserts and Chunking bristles.
- Pre-polishing and condensing in one working step.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chungking brushes, Ø ~80 mm (3.15&quot;), max. rpm 4000 1/min, 12 pieces</td>
<td></td>
<td>No. 767 2000</td>
</tr>
</tbody>
</table>

**Special brush**

Particularly good for polishing chrome cobalt frames using polishing paste.

**Advantages**
- Narrow brushes, easy access to all areas.
- 2 rows of grade 1 Chungking bristles.
- Powerful, short brushes (10 mm), extremely durable.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special brushes for chrome cobalt, Ø ~65 mm (2.56&quot;), max. rpm 6000 1/min, 2 pieces</td>
<td></td>
<td>No. 199 1000</td>
</tr>
<tr>
<td>Special brushes for chrome cobalt, Ø ~65 mm (2.56&quot;), max. rpm 6000 1/min, 100 pieces</td>
<td></td>
<td>No. 199 2000</td>
</tr>
</tbody>
</table>
**Slim**

The Slim polishing brush is particularly suitable for polishing interdental spaces on acrylic dentures.

**Advantages**
- Slender brushes for working on the polisher.
- Soft bristles prevent abrasion.
- The spaces between bristles produce a cooling effect.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Diameter</th>
<th>Thickness</th>
<th>RPM</th>
<th>Quantity</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slim polishing brushes</td>
<td>Ø 44 mm (1.73&quot;)</td>
<td>14 mm (0.55&quot;)</td>
<td>4000</td>
<td>12 pieces</td>
<td>No. 788 1000</td>
</tr>
<tr>
<td>Slim polishing brushes</td>
<td>Ø 44 mm (1.73&quot;)</td>
<td>14 mm (0.55&quot;)</td>
<td>4000</td>
<td>100 pieces</td>
<td>No. 788 2000</td>
</tr>
</tbody>
</table>

**Linen buff siliconised**

For pre-polishing acrylic dentures with damp pumice.

**Advantages**
- Produces a silky matt surface.
- No fraying due to rubber coating.
- Optimum polishing even in deep gum areas.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Diameter</th>
<th>Thickness</th>
<th>RPM</th>
<th>Quantity</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linen buff, siliconised</td>
<td>Ø 80 mm (3.15&quot;)</td>
<td>10 mm (0.39&quot;)</td>
<td>4000</td>
<td>4 pieces</td>
<td>No. 209 000</td>
</tr>
</tbody>
</table>

**Pleated buff nettle cloth**

For large surface high-lustre polish on acrylic dentures.

**Advantages**
- Will not fray due to diagonal cut of material.
- Material folds cause cooling effect leading to speedier shine.

**Ordering information**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Diameter</th>
<th>Thickness</th>
<th>RPM</th>
<th>Quantity</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pleated buff nettlecloth</td>
<td>Ø 100 mm (3.94&quot;)</td>
<td>14 mm (0.55&quot;)</td>
<td>4000</td>
<td>4 pieces</td>
<td>No. 210 000</td>
</tr>
</tbody>
</table>

**Note:**
- All products have a maximum RPM of 4000 1/min.
SILENT
Extraction units
Extremely powerful performance combined with an astounding low operating noise level is of great value in a laboratory work environment – every day.

This is what makes work easier

Silent functionality
A dust-free workplace and a comfortable low noise level helps make work easy.

WORKFLOW GUARANTEE
3 year guarantee
10 year spare parts service
Activity guarantee

read more
www.renfert.com
“Nadine, How can one be certain that a product functions effectively?”

“One can never be certain of the result: this is the exciting thing about it! However, together with a pool of dental technicians we develop and extensively test new product ideas. Extremely useful suggestions for improvement often originate from this pool and are then integrated into product prototypes. The very success of each and every new Renfert product is a result of the tight collaboration between colleagues during the product development phase. We could never be so successful without this input – that’s why every successful Renfert product results from a joint project with dental technicians.”
How are the impulses from daily work used at Renfert?

“The view I like best is that I am both a guide and a pioneer for dental technicians. Dental technicians generally know exactly which direction development should take and what they need for their work. The impulse for the GEO Expert Wax Set A. Bruguera, for example came from an external dental technician. He said: “Wouldn’t it be great to have waxes for producing a natural wax-up to simplify communication between the dentist and patient, and thereby also simulate the porcelain build-up later?” We have since developed the product and guidelines with which he can implement his idea.”

What special characteristics does the material require?

“I would say this is very clearly our Renfert quality standard, which is also an integral part of our brand promise. It depends on this, as this standard also ensures the standard of the dental technician. We create this reliability because we not only thoroughly test new products before marketing them, but also subject existing products to a strict test procedure before they leave Renfert. This applies to materials, equipment and all other products. Dental technicians can be assured that the material quality is exactly what they expect and want.”
**Pin-Cast**

**Model base former**

Model base production kit for effective formation of model bases for plaster arches.

**Advantages**
- Saves time and material.
- Straight forward base system with reusable parts.
- Variable base height and size.

**Details**
- Accurately fitting primary and secondary bases.
- Easy removal and precise relocation of the models.
- Corrosion resistant discs and magnet holders.

**Use**
2. For the dental arch base with pins.
4. Isolation of the model base: Plaster against plaster.
5. Filling out the split cast form with base plaster.
6. Removal of the rubber ring after the plaster has set.
7. Articulating the models in the articulator or occludator parallel to the table level.

**Ordering information**

| Set for Bi-Pin short with sleeve (No. 326), base height 13.5 mm (0.53") | No. 410 0326 |
| Set for Bi-Pin long with sleeve (No. 346), base height 17.5 mm (0.69") | No. 410 0346 |
| Set for Smart-Pin (No. 366), Bi-V-Pin (No. 328) with sleeve and Pro-Fix (No. 367), base height 12.5 mm (0.49") | No. 410 0366 |
| Magnets and magnet holders, 30 pieces each | No. 413 0000 |
| Retention discs, 120 pieces | No. 414 0000 |
| Rubber rings (23.5 mm / 0.93") for Bi-Pin short, large, base height 13.5 mm (0.53"), 5 pieces | No. 412 0326 |
| Rubber rings (23.5 mm / 0.93") for Bi-Pin short, small, base height 13.5 mm (0.53"), 5 pieces | No. 412 1326 |
| Rubber rings (27 mm / 1.06") for Bi-Pin long, large, base height 17.5 mm (0.69"), 5 pieces | No. 412 0346 |
| Rubber rings (27 mm / 1.06") for Bi-Pin long, small, base height 17.5 mm (0.69"), 5 pieces | No. 412 1346 |
| Rubber rings (21.7 mm / 0.85") for Smart-Pin and Bi-V-Pin, large, base height 12.5 mm (0.49"), 5 pieces | No. 412 0366 |
| Rubber rings (21.7 mm / 0.85") for Smart-Pin and Bi-V-Pin, small, base height 12.5 mm (0.49"), 5 pieces | No. 412 1366 |
| Base former large, 3 pieces | No. 411 0000 |
| Base former small, 3 pieces | No. 411 1000 |

**Contents of set**

2 model base former set large, 1 model base former set small,
2 rubber rings large, 1 rubber ring small, 10 magnets, 10 magnet holders, 40 retention discs
### Overview Pins

<table>
<thead>
<tr>
<th>Description</th>
<th>Sleeve</th>
<th>Shaft length</th>
<th>Head length</th>
<th>Base height Pin–Cast</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-V-Pin Plastic</td>
<td></td>
<td>12,5 mm / 0.492&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>12,5 mm / 0.492&quot;</td>
<td>144</td>
</tr>
<tr>
<td>Bi-V-Pin Metal</td>
<td></td>
<td>12,5 mm / 0.492&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>12,5 mm / 0.492&quot;</td>
<td>144</td>
</tr>
<tr>
<td>Bi-Pin long Metal</td>
<td>Metal</td>
<td>17,5 mm / 0.688&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>145</td>
</tr>
<tr>
<td>Bi-Pin short Metal</td>
<td>Metal</td>
<td>13,5 mm / 0.531&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>13,5 mm / 0.531&quot;</td>
<td>145</td>
</tr>
<tr>
<td>Bi-Pin long with spike Metal</td>
<td>Metal</td>
<td>17,5 mm / 0.688&quot;</td>
<td>4,0 mm / 0.157&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>145</td>
</tr>
<tr>
<td>Bi-Pin short with spike Metal</td>
<td>Metal</td>
<td>13,5 mm / 0.531&quot;</td>
<td>4,0 mm / 0.157&quot;</td>
<td>13,5 mm / 0.531&quot;</td>
<td>145</td>
</tr>
<tr>
<td>Pro-Fix Plastic</td>
<td></td>
<td>11,6 mm / 0.456&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>12,5 mm / 0.492&quot;</td>
<td>146</td>
</tr>
<tr>
<td>Smart-Pin Metal</td>
<td>Metal</td>
<td>12,5 mm / 0.492&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>12,5 mm / 0.492&quot;</td>
<td>146</td>
</tr>
<tr>
<td>Bi-Pin long No sleeve</td>
<td>No sleeve</td>
<td>17,5 mm / 0.688&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>147</td>
</tr>
<tr>
<td>Bi-Pin short No sleeve</td>
<td>No sleeve</td>
<td>13,5 mm / 0.531&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>13,5 mm / 0.531&quot;</td>
<td>147</td>
</tr>
<tr>
<td>Bi-Pin with spike No sleeve</td>
<td>No sleeve</td>
<td>17,5 mm / 0.688&quot;</td>
<td>4,0 mm / 0.157&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>147</td>
</tr>
<tr>
<td>Bi-Fix-Pin No sleeve</td>
<td>No sleeve</td>
<td>17,5 mm / 0.688&quot;</td>
<td>5,5 mm / 0.216&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>147</td>
</tr>
<tr>
<td>Brass arched pins</td>
<td>No sleeve</td>
<td>17,0 mm / 0.669&quot;</td>
<td>5,0 mm / 0.196&quot;</td>
<td>17,5 mm / 0.688&quot;</td>
<td>148</td>
</tr>
</tbody>
</table>

### Overview Pins Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retention rings</td>
<td>148</td>
</tr>
<tr>
<td>Rubber caps</td>
<td>148</td>
</tr>
</tbody>
</table>

**More accessories**

Pin drill bits  →  Page 76
**Bi-V-Pin**

*Model pin with plastic sleeve*

No more deformation of your intricate bridge copings through sudden, erratic loosing of pins thanks to Easy Glide function.

**Advantages**
- V-shaped profile also ideal when limited space is available.
- Short friction path of 1 mm for safe removal of diverging dies.
- Even friction thickness for all dies due to the relief gap.

**Technical data**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>12.5 mm (0.49&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Sleeve width max.</td>
<td>3.8 mm (0.15&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-V-Pin with plastic sleeve</td>
<td>100 pieces</td>
<td>329 1000</td>
</tr>
<tr>
<td>Bi-V-Pin with plastic sleeve</td>
<td>1000 pieces</td>
<td>329 2000</td>
</tr>
</tbody>
</table>

**Bi-V-Pin**

*Model pin with metal sleeve*

Narrow model pin with two dowel pins, ideal for positioning in limited space.

**Advantages**
- V-shaped profile also ideal when limited space is available.
- Only one hole drilled per die.
- Reduced model production time.

**Technical data**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>12.5 mm (0.49&quot;)</td>
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<td>Head length</td>
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<tr>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Sleeve width max.</td>
<td>3.6 mm (0.14&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>Bi-V-Pin with metal sleeve</td>
<td>100 pieces</td>
<td>328 1000</td>
</tr>
<tr>
<td>Bi-V-Pin with metal sleeve</td>
<td>1000 pieces</td>
<td>328 2000</td>
</tr>
</tbody>
</table>

---

144 MATERIAL / PINS
**Bi-Pin**

**Model pin with sleeve**

Model pin with dual guidance for precise, rotation-free positioning of the die.

**Advantages**
- Exact and rotation safe positioning of the die.
- Only one hole drilled per die.
- Reduced model production time.

---

**Technical data**

<table>
<thead>
<tr>
<th></th>
<th>Bi-Pin long</th>
<th>Bi-Pin short</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>17.5 mm (0.68&quot;)</td>
<td>13.5 mm (0.53&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Sleeve width max.</td>
<td>3.6 mm (0.14&quot;)</td>
<td>3.6 mm (0.14&quot;)</td>
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</table>

**Ordering information**

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin long with sleeve, 100 pieces</td>
<td></td>
<td>346 1000</td>
</tr>
<tr>
<td>Bi-Pin long with sleeve, 1000 pieces</td>
<td></td>
<td>346 2000</td>
</tr>
<tr>
<td>Bi-Pin short with sleeve, 100 pieces</td>
<td></td>
<td>326 1000</td>
</tr>
<tr>
<td>Bi-Pin short with sleeve, 1000 pieces</td>
<td></td>
<td>326 2000</td>
</tr>
</tbody>
</table>

---

**Bi-Pin**

**Model pin with sleeve and spike**

High-luster nickel plated model pin with dual guidance. A special spike for fixation in the impression shortens the production time of the model.

**Advantages**
- No drilling required.
- Two guidance pins to prevent rotation.
- Even friction of all pins due to special coating technology.

---

**Technical data**

<table>
<thead>
<tr>
<th></th>
<th>Bi-Pin long</th>
<th>Bi-Pin short</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>17.5 mm (0.68&quot;)</td>
<td>13.5 mm (0.53&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>4.0 mm (0.15&quot;)</td>
<td>4.0 mm (0.15&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>1.9 mm (0.07&quot;)</td>
<td>1.9 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Sleeve width max.</td>
<td>3.6 mm (0.14&quot;)</td>
<td>3.6 mm (0.14&quot;)</td>
</tr>
<tr>
<td>Spike length</td>
<td>8.0 mm (0.31&quot;)</td>
<td>8.0 mm (0.31&quot;)</td>
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</table>

**Ordering information**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin long with sleeve and spike, 100 pieces</td>
<td></td>
<td>343 1000</td>
</tr>
<tr>
<td>Bi-Pin long with sleeve and spike, 1000 pieces</td>
<td></td>
<td>343 2000</td>
</tr>
<tr>
<td>Bi-Pin short with sleeve and spike, 100 pieces</td>
<td></td>
<td>323 1000</td>
</tr>
<tr>
<td>Bi-Pin short with sleeve and spike, 1000 pieces</td>
<td></td>
<td>323 2000</td>
</tr>
</tbody>
</table>
**Pro-Fix**

Model pin with plastic sleeve

Precision pin with Easy-Glide-Function and a guidance pin.

**Advantages**
- Stress-free removal through gentle die removal without jolting movements.
- Short friction path of 1 mm for safe removal of diverging dies.
- Guarantees even friction strength with all dies.

**Technical data**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>11.6 mm (0.45&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>1.6 mm (0.06&quot;)</td>
</tr>
<tr>
<td>Shaft length + Sleeve</td>
<td>12.0 mm (0.47&quot;)</td>
</tr>
<tr>
<td>Ø sleeve</td>
<td>3.0 mm (0.12&quot;)</td>
</tr>
<tr>
<td>Ø pin max.</td>
<td>2.5 mm (0.09&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

- Pro-Fix with plastic sleeve, 100 pieces  No. 367 1000
- Pro-Fix with plastic sleeve, 1000 pieces No. 367 2000

**Smart-Pin**

Model pin with sleeve

Narrow, short model pin with optimum insertion into metal sleeve.

**Advantages**
- Extremely narrow pin and sleeve combination.
- For particularly narrow spaces.
- Pin height for low model bases saves plaster.

**Technical data**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>12.5 mm (0.49&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>1.6 mm (0.06&quot;)</td>
</tr>
<tr>
<td>Ø sleeve</td>
<td>2.5 mm (0.09&quot;)</td>
</tr>
<tr>
<td>Ø pin max.</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

- Smart-Pin, 1000 pieces  No. 366 2000
- Sleeves for Smart-Pin, 1000 pieces No. 366 2100
**Bi-Pin**

High-luster nickel plated model pin with dual guidance.

**Advantages**
- Only one drill-hole per die necessary.
- Dual guidance prevents rotation.
- Precision fit with gentle friction between pin and sleeve.

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin long</td>
<td>Shaft length</td>
<td>17.5 mm (0.68&quot;)</td>
</tr>
<tr>
<td>Bi-Pin short</td>
<td>Shaft length</td>
<td>13.5 mm (0.53&quot;)</td>
</tr>
<tr>
<td>Bi-Pin</td>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Bi-Pin</td>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Bi-Pin</td>
<td>Max. pin width</td>
<td>2.9 mm (0.11&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin long, 1000</td>
<td>pieces</td>
<td>353 3000</td>
</tr>
<tr>
<td>Bi-Pin short, 1000</td>
<td>pieces</td>
<td>336 2000</td>
</tr>
</tbody>
</table>

**Bi-Pin**

High-luster nickel plated model pin with dual guidance and a special spike for positioning in the impression.

**Advantages**
- No drilling required.
- Long spike for optimal retention in the impression.
- Conical pin shape for direct removal of the pins.

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin with spike</td>
<td>Shaft length</td>
<td>17.5 mm (0.68&quot;)</td>
</tr>
<tr>
<td>Bi-Pin with spike</td>
<td>Head length</td>
<td>4.0 mm (0.15&quot;)</td>
</tr>
<tr>
<td>Bi-Pin with spike</td>
<td>Ø head</td>
<td>1.9 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Bi-Pin with spike</td>
<td>Spike length</td>
<td>8.0 mm (0.31&quot;)</td>
</tr>
<tr>
<td>Bi-Pin with spike</td>
<td>Max. pin width</td>
<td>2.9 mm (0.11&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Pin with spike, 100 pieces</td>
<td></td>
<td>352 1000</td>
</tr>
<tr>
<td>Bi-Pin with spike, 1000 pieces</td>
<td></td>
<td>352 3000</td>
</tr>
</tbody>
</table>

**Bi-Fix-Pin**

Dual guidance model pin with fixing wire for exact positioning in the impression.

**Advantages**
- No drilling required.
- Reduced model production time.
- Two guidance pins to prevent rotation.

**Technical data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Fix-Pin</td>
<td>Shaft length</td>
<td>17.5 mm (0.68&quot;)</td>
</tr>
<tr>
<td>Bi-Fix-Pin</td>
<td>Head length</td>
<td>5.5 mm (0.21&quot;)</td>
</tr>
<tr>
<td>Bi-Fix-Pin</td>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Bi-Fix-Pin</td>
<td>Max. pin width</td>
<td>2.9 mm (0.11&quot;)</td>
</tr>
<tr>
<td>Bi-Fix-Pin</td>
<td>Needle length</td>
<td>43.0 mm (1.69&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-Fix-Pin, 100</td>
<td>pieces</td>
<td>3451000</td>
</tr>
<tr>
<td>Bi-Fix-Pin, 1000</td>
<td>pieces</td>
<td>345 3000</td>
</tr>
</tbody>
</table>
Arched pins
Brass model pin for fixation in complicated impressions.

Advantages
- No drilling required.
- Reduced model production time.
- Flattened shape of the pin prevents rotation.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Ordering information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft length</td>
<td>17.0 mm (0.66&quot;)</td>
</tr>
<tr>
<td>Head length</td>
<td>5.0 mm (0.19&quot;)</td>
</tr>
<tr>
<td>Ø head</td>
<td>2.0 mm (0.07&quot;)</td>
</tr>
<tr>
<td>Ø pin max.</td>
<td>3.2 mm (0.12&quot;)</td>
</tr>
<tr>
<td>Needle length</td>
<td>43.0 mm (1.69&quot;)</td>
</tr>
<tr>
<td>Arched pins pointed, 100 pcs. No. 355 1001</td>
<td></td>
</tr>
<tr>
<td>Arched pins pointed, 1000 pcs. No. 355 3001</td>
<td></td>
</tr>
<tr>
<td>Arched pins flat pointed, 100 pcs. No. 355 1002</td>
<td></td>
</tr>
<tr>
<td>Arched pins flat pointed, 1000 pcs. No. 355 3002</td>
<td></td>
</tr>
</tbody>
</table>

Retention rings
Zinc plated retention rings for secure fixation of non-removable sections of the plaster arch.

Advantages
- Individual use for fixing various sizes of model areas.
- Simple placement at commencement of the plaster arch binding phase.

Ordering information
Retention rings, 1000 pieces No. 393 0000

Rubber caps
Prevent pins and sleeves from being damaged during model trimming.

Advantages
- Time saving, easy and safe handling.
- Prevents interference with the friction due to plaster penetration.

Ordering information
Rubber caps, for Bi-Pins, 500 pieces No. 322 0000
Overview Adhesion

<table>
<thead>
<tr>
<th>Description</th>
<th>Contents</th>
<th>Viscosity</th>
<th>Area of application</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super glue “The multi-purpose one”</td>
<td>6 x 10 g (0.35 oz.) / 6 x 5 g (0.18 oz.)</td>
<td>- 15</td>
<td>Specially for bonding “recently set” stone (approx. 5–6 hrs after pouring the impression) and “dry” stone (more than 1–2 days old). Bonds stone, resin, metal and porcelain.</td>
<td>150</td>
</tr>
<tr>
<td>Super glue “The powerful one”</td>
<td>6 x 10 g (0.35 oz.) / 6 x 5 g (0.18 oz.)</td>
<td>- 18</td>
<td>Specially for bonding “dry” stone (more than 1–2 days old). For rapid bonding of stone, resin, metal and porcelain.</td>
<td>150</td>
</tr>
<tr>
<td>Super glue “The odorless one”</td>
<td>6 x 10 g (0.35 oz.)</td>
<td>- 5</td>
<td>Odourless special glue for bonding „recently set“ stone (approx. 5–6 hrs after pouring the impression) as well as resin, metal and porcelain. No irritation of the respiratory tract.</td>
<td>150</td>
</tr>
<tr>
<td>Concret “The viscous one”</td>
<td>2 x 10 g (0.35 oz.)</td>
<td>- 100</td>
<td>High viscosity special glue for closing glued joints with stone, metal, resin and porcelain. Ideal for gluing pins.</td>
<td>151</td>
</tr>
</tbody>
</table>

Overview Sealing & Hardening

<table>
<thead>
<tr>
<th>Description</th>
<th>Contents</th>
<th>Viscosity</th>
<th>Area of application</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquicol “The thin liquid one”</td>
<td>2 x 20 g (0.70 oz.)</td>
<td>- 1,3</td>
<td>Special glue with extremely low viscosity for sealing dies and stone models. Hardens the surfaces of dies, alveolar ridges and opposing dentitions.</td>
<td>151</td>
</tr>
<tr>
<td>Liquicol B</td>
<td>2 x 10 g (0.35 oz.)</td>
<td>- 2–6</td>
<td>Special glue with very low viscosity and integrated application brush, ideal for sealing and hardening stone dies, and all areas of the stone model.</td>
<td>151</td>
</tr>
<tr>
<td>Surface hardener</td>
<td>125 ml (4.25 fl.oz.)</td>
<td>–</td>
<td>Self-hardening acrylic solution for hardening and sealing complete plaster models and wide surfaces.</td>
<td>152</td>
</tr>
<tr>
<td>Model spray</td>
<td>300 ml (10.20 fl.oz.)</td>
<td>–</td>
<td>Surface sealing of investment models in model cast technique.</td>
<td>152</td>
</tr>
</tbody>
</table>

Overview Fixing Resin

<table>
<thead>
<tr>
<th>Description</th>
<th>Contents</th>
<th>Area of application</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stabiloplast resin</td>
<td>2 x 10 g (0.35 oz.)</td>
<td>The general purpose resin for fixing, stabilising, connecting and blocking out on wax, metal, resin and stone.</td>
<td>152</td>
</tr>
<tr>
<td>Stabiloplast accelerator</td>
<td>30 ml (1.02 fl.oz.)</td>
<td>Accelerator for polymerisation of the resin.</td>
<td>152</td>
</tr>
</tbody>
</table>

All items in one video
https://youtu.be/MDrlGhg3gyo
The multi-purpose one
All-round super glue for use with plaster, metal, acrylics and porcelain.

Advantages
- Specially for gluing fresh and dry plaster.
- For universal use.
- Viscosity 15 mPa s.

Ordering information
Super glue, 6 x 5 g (6 x ≈ 0.17 fl.oz.), approx. 15 mPa s No. 1733 0050
Super glue, 6 x 10 g (6 x ≈ 0.33 fl.oz.), approx. 15 mPa s No. 1733 0100

The powerful one
All-round instant glue with quick bonding time, for use with plaster, metal, acrylic and porcelain.

Advantages
- Specially for gluing dry plaster.
- Very quick setting characteristics.
- Viscosity 18 mPa s.

Ordering information
Super glue, 6 x 5 g (6 x ≈ 0.17 fl.oz.), approx. 18 mPa s No. 1733 2050
Super glue, 6 x 10 g (6 x ≈ 0.33 fl.oz.), approx. 18 mPa s No. 1733 2000

The odorless one
Odorless special glue for gluing and sealing plaster, metal, acrylic and porcelain.

Advantages
- Odorless glue prevents respiratory irritation.
- Specially suitable for gluing fresh plaster.
- Viscosity 5 mPa s.

Ordering information
Super glue, odorless, 6 x 10 g (6 x ≈ 0.33 fl.oz.), approx. 5 mPa s No. 1733 2500
Concret

Viscous special glue for closing up large gaps in plaster, metal, acrylic and porcelain.

**Advantages**
- Secure hold when gluing pins.
- Delayed setting time so the parts to be glued can be comfortably positioned.
- Viscosity 100 mPa.s.

**Ordering information**

Concret, 2 x 10 g (2 x ~0.33 fl.oz.), approx. 100 mPa.s  
No. 1722 0020

Liquicol

Special glue with extremely low viscosity for sealing plaster models.

**Advantages**
- Minimal layer build-up.
- For strengthening the surfaces of dies, alveolar ridges or opposing dentition.
- For smoothing rough areas of models.

**Ordering information**

Liquicol, 2 x 20 g (2 x ~0.66 fl.oz.), approx. 1.3 mPa.s  
No. 1732 0020

Liquicol B

Special glue with very low viscosity and integrated application brush, specially for sealing and hardening stone dies and all sections of the stone model.

**Advantages**
- Easy handling and time-saving thanks to integrated, fine application brush.
- No other application instruments are required.
- A uniform, minimum layer thickness ensures maximum precision and reliability.

**Ordering information**

Liquicol B, 2 x 10 g (2 x ~0.33 fl.oz.), approx. 2–5 mPa.s  
No. 1732 0010
Surface hardener

Self-hardening acrylic solution for hardening and sealing plaster models.

**Advantages**
- Requires only one application or dip.
- Seals surface without layer build-up.
- Surface becomes very hard and water-resistant.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Unit</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface hardener</td>
<td>1.25 ml</td>
<td>4.25 fl.oz.</td>
<td>17192000</td>
</tr>
</tbody>
</table>

Model spray

Surface sealing of investment models in model cast technique.

**Advantages**
- Fine spray onto cold investment models.
- Seals the surface of investment material.
- Optimum base for secure modelling and adaptation of wax profiles.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Unit</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model spray</td>
<td>300 ml</td>
<td>10.20 fl.oz.</td>
<td>17360000</td>
</tr>
</tbody>
</table>

Stabiloplast

General purpose resin for fixing, stabilizing, connecting and blocking out.

**Advantages**
- May be applied straight from the bottle.
- Will adhere to wax.
- Has excellent adhesive properties, even to metal.

**Ordering information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Unit</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set</td>
<td>2 x 10 g</td>
<td>0.33 fl.oz.</td>
<td>4480003</td>
</tr>
<tr>
<td></td>
<td>1 acrylic spatula</td>
<td>1.02 fl.oz.</td>
<td>4480002</td>
</tr>
<tr>
<td>Stabiloplast resin</td>
<td>2 x 10 g</td>
<td>0.33 fl.oz.</td>
<td>44800004</td>
</tr>
<tr>
<td>Stabiloplast accelerator</td>
<td>30 ml</td>
<td>1.02 fl.oz.</td>
<td>44800002</td>
</tr>
</tbody>
</table>
## Overview Lacquering

<table>
<thead>
<tr>
<th>Description</th>
<th>Color</th>
<th>Contents (ml / fl. oz.)</th>
<th>Layer thickness</th>
<th>Area of application</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>die:master duo</td>
<td>–</td>
<td>15 / 0.51</td>
<td>0 µm</td>
<td>Sealing/ Hardening</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master silver</td>
<td>silver</td>
<td>15 / 0.51</td>
<td>13 µm</td>
<td>Die varnish for conventional restorations</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master gold</td>
<td>gold</td>
<td>15 / 0.51</td>
<td>13 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>die:master red</td>
<td>red</td>
<td>15 / 0.51</td>
<td>15 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>die:master blue</td>
<td>blue</td>
<td>15 / 0.51</td>
<td>20 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>die:master gray</td>
<td>gray</td>
<td>15 / 0.51</td>
<td>20 µm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>die:master ivory</td>
<td>dentine (A2/B2)</td>
<td>15 / 0.51</td>
<td>10 µm</td>
<td>Die varnish for porcelain restorations</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master aqua</td>
<td>dentine (A2/B2)</td>
<td>15 / 0.51</td>
<td>10 µm</td>
<td>Thinner for die varnish die:master silver,</td>
<td>154–155</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>gold, red, blue, gray, ivory</td>
<td></td>
</tr>
<tr>
<td>die:master thinner</td>
<td>–</td>
<td>30 / 1.02</td>
<td>–</td>
<td>Thinner for die varnish die:master aqua</td>
<td>154–155</td>
</tr>
<tr>
<td>die:master aqua thinner</td>
<td>–</td>
<td>30 / 1.02</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Overview Separating

<table>
<thead>
<tr>
<th>Description</th>
<th>Contents (ml / fl. oz.)</th>
<th>Properties</th>
<th>Area of application</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wax Isolation</td>
<td>15 / 0.51</td>
<td>No layer build-up</td>
<td>Wax / Plaster</td>
<td>156</td>
</tr>
<tr>
<td>Picosep</td>
<td>30 / 1.02</td>
<td>No layer build-up</td>
<td>Wax / Plaster</td>
<td>156</td>
</tr>
<tr>
<td>Iso-Stift</td>
<td>4,5 / 0.15</td>
<td>No layer build-up, very economical application</td>
<td>Wax / Plaster / Plaster</td>
<td>156</td>
</tr>
<tr>
<td>Isofix 2000</td>
<td>1000 / 34</td>
<td>No layer build-up</td>
<td>Plaster / Plaster</td>
<td>157</td>
</tr>
</tbody>
</table>
die:master

Die varnish

The die:master system provides you with perfect die preparation as a working basis for conventional and all-ceramic restorations.

die:master set
Fast and clear access to all system components thanks to the set stand.
- A high degree of working comfort due to the integrated isolating brush with magnetic fixture.
- Integrated, practical die holder in the stand.

die:master duo
Stone hardener and sealant
In-depth hardness and high edge-strength due to powerfully cross-linked die stone structure.
- Maximum bond strength thanks to chemical bond to die spacer layer.
- 100% dimensionally-stable die due to 0 µm layer thickness.

die:master gray, red, blue, silver, gold varnishes – conventional restorations.
Durable die varnishes with three layer thicknesses (13, 15 and 20 µm).
- Extremely resistant to steam and scratches due to a highly cross-linked varnish structure.
- Maximum bond between varnish and hardener due to the primer technology.
- No pools of varnish on the brush or die and a high level of edge stability due to extremely thixotropic flowing characteristics.

Tip!
Apply the varnish very sparingly in a thin coating. After removing from the varnish, wipe the brush well on the bottle neck to prevent a big drop of varnish from accumulating on the brush thereby a controlled and precise application is possible.

Ordering information

die:master duo, 15 ml (0.51 fl. oz.), layer thickness 0 µm No. 19560600
die:master silver, 15 ml (0.51 fl. oz.), layer thickness 13 µm No. 19560400
die:master gold, 15 ml (0.51 fl. oz.), layer thickness 13 µm No. 19560500
die:master red, 15 ml (0.51 fl. oz.), layer thickness 15 µm No. 19560200
die:master blue, 15 ml (0.51 fl. oz.), layer thickness 20 µm No. 19560300
die:master gray, 15 ml (0.51 fl. oz.), layer thickness 20 µm No. 19560100
die:master ivory, 15 ml (0.51 fl. oz.), layer thickness 10 µm No. 19570200
die:master aqua, 15 ml (0.51 fl. oz.), layer thickness 10 µm No. 19570500
die:master thinner, 30 ml (1.02 fl. oz.) No. 19560700
die:master aqua thinner, 30 ml (1.02 fl. oz.) No. 19570550
die:master set silver/gold, 1x stand, 1x die:master silver, 1x die:master gold, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush No. 19561000
die:master set red, 1x stand, 2x die:master red, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush No. 19560800
die:master set blue, 1x stand, 2x die:master blue, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush No. 19560900
die:master set ivory, 1x stand, 2x die:master ivory, 1x die:master thinner, 1x die:master duo, 1x picosep, 1x brush No. 19571000
die:master set aqua, 1x stand, 2x die:master aqua, 1x die:master aqua thinner, 1x die:master duo, 1x picosep, 1x brush No. 19572000
picosep, 30 ml (1.02 fl. oz.) No. 19520030
**die:master ivory & die:master aqua**
Tooth colored and removable die varnishes specially for all-ceramic restorations, such as press ceramics made from lithium disilicate (LS₂).

**die:master ivory – All-ceramic (A2/B2)**
Extremely resistant tooth-colored die varnish.
- Highly aesthetical effect and no color irritation during the production process thanks to harmonious color coordination.
- Minimal dimensional increase of only 10 µm per coat.
- Extremely high vapor and scratch resistance due to a highly cross-linked varnish structure.

**die:master aqua – Press ceramic (A1/B1)**
Resistant die varnish during the wax-up but also easy to wash off with water.
- Easy handling due to high opacity.
- Optimal expansion compensation with a layer thickness of 10 µm per coat of varnish.

**die:master thinner & die:master aqua thinner**
For dilution and modification of the die:master varnishes.
- Permanent preservation of layer thickness and varnish quality.
- Controlled viscosity adjustment due to accurate droplet dosing.

**picosep Wax Isolation**
Solvent-free, silicone-based plaster against wax isolation.
- No corrosion of varnishes and waxes due to specific coordination of isolating agent with the die:master components.
- No evaporation of the isolating agent due to alcohol-free formula.

**Tip!**
In order to ensure that the required consistency is maintained long-term, add 1 to 2 drops of die:master thinner or die:master aqua thinner from time to time. Check the consistency after shaking and if necessary repeat. In order to prevent the usual evaporation, the die:master varnish must be closed immediately after use.
Wax Isolation
Silicone based separating agent for optimal isolation of plaster from wax.

Advantages
- Excellent isolation of plaster against wax.
- Exact fitting accuracy due to the minimal thickness of the isolation layer.
- Smooth and smear-free surfaces due to the low residues of isolating agent.

Ordering information
Wax Isolation, 15 ml (0.51 fl.oz.) No. 1552 0040

picosep
Thin, silicone based isolating agent – specially developed for wax-dipping techniques.

Advantages
- Microfilm isolates plaster from wax or high-fusing porcelain.
- A thin layer is effective for days; no reapplication required.
- Isolates the plaster, acrylic and metal surfaces to permit wax application.

Ordering information
picosep, 30 ml (1.02 fl.oz.) No. 1552 0030

Iso-Stift
A practical, double-sided isolating stick for isolating plaster against porcelain and wax.

Advantages
- Soft and hard tip for individual applications.
- Economical and precise application of isolating material.
- Comfortable and easy handling.

Ordering information
Iso-Stift, 1 piece, 4.5 ml (0.15 fl. oz.) No. 17093000
Isofix 2000
Film-free isolation of plaster against plaster from a practical spray bottle. Ideal for producing saw cut models.

**Advantages**
- Soaks into the plaster surface.
- Seals the open pores of the plaster model.
- No layer build-up.

**Ordering information**
- Isofix 2000, 1 l (34 fl.oz.) + 500 ml spray bottle (17 fl.oz.) No. 1720 0000
- Isofix 2000 refill packs, 2 x 1 l (2 x 34 fl.oz.) No. 1720 2000

Renfert-Scanspray
Maximum precision thanks to very thin layer application and homogenous grain size.

**Advantages**
- Accurate edge representation.
- Undistorted surfaces.
- Optimal polygon count in the 3D model.

**Ordering information**
- Renfert-Scanspray, 200 ml (6.80 fl.oz.) No. 1731 0000

Occlutec
Occlutec provides very clear and detailed marking of high spots on CrCo dentures, crowns and bridges.

**Advantages**
- Distinct sharp contours.
- Optimal dosage due to micro-powder spray layer.
- Homogenous spraying characteristics regardless of fill level of the can.

**Ordering information**
- Occlutec green, 75 ml (2.55 fl.oz.) No. 1935 0000
- Occlutec red, 75 ml (2.55 fl.oz.) No. 1935 1000
Picosilk

Picosilk is a wetting agent for wax models within crown, bridge and model casting technique.

**Advantages**
- Spray on finely using the atomizer before investing.
- Wax does not take on water-repellent characteristics after use.
- Improves the flow of investment material.

**Ordering information**

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
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<td>Picosilk, refill bottle</td>
<td>500 ml (17 fl.oz.)</td>
<td>No. 15500100</td>
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Proform-12

Proform-12 is a porcelain additive which lends plasticity to the porcelain mass.

**Advantages**
- The porcelain takes on a wax-like consistency.
- Improves stability of porcelain when modeling.
- Considerably less evaporation just by adding a few drops (remains moist over a longer period).

**Ordering information**

<table>
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<tr>
<th>Item</th>
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<tr>
<td>Proform-12</td>
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</table>

Marketing for dental technicians | Google My Business

What do we do if we are looking for a good hairdressers or we want to try a new restaurant? It will often go like this: either we ask friends and acquaintances for their advice or we will find the answer on Google & Co. But how does Google really know that my restaurant or dental laboratory exists at all (…)

Read more in our Blog.
blog.renfert.com

#RenfertBlog #Marketing #Labmarketing
## Overview Waxes

<table>
<thead>
<tr>
<th>Description</th>
<th>Wax hardness</th>
<th>Conventional crown and bridge technique</th>
<th>All-ceramics and pressable ceramics*</th>
<th>Esthetic wax-up</th>
<th>Special wax</th>
<th>Model casting</th>
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<tbody>
<tr>
<td><strong>Crown and Bridge Technique</strong></td>
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<td>181</td>
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* burns without residue
Modeling natural contours more easily.

→ GEO Waxes
Waxes to suit every requirement

The GEO wax ranges include the optimum modeling wax for crown and bridge and CrCo work. These waxes were developed with the constantly increasing demand for better quality and esthetics in mind.

This is what makes work easier

1. optimum waxing up and modeling properties
2. high-quality materials
3. coordinated to working with electric wax knife and open flame
4. very low shrinkage behavior
5. wide selection for every requirement

Ensure excellence: with GEO Expert

The top-quality modeling waxes, specially developed in collaboration with August Bruguera, are ideal for experts, individualists and technicians eager to learn with a high esthetic demand for the restoration.

Work flexibly: with GEO Classic

With the high-quality, versatile GEO Classic range of modeling waxes every dental technician can find the correct wax for his individual requirements, whether for single crowns or highly complex bridge restorations.

Work efficiently: GEO Crowax

All restorations in crown and bridge work, and in CrCo work can be fabricated very cost-effectively using these uncomplicated modeling waxes from the GEO Crowax range.

making work easy for me means …

… that the wax can be modeled easily and reliably during any step in the process chain.

Wolfgang Weber
Application Technology, Master Dental Technician
### Overview of Melting Ranges

<table>
<thead>
<tr>
<th>Description</th>
<th>Recommended temperature setting*</th>
<th>55°C 131°F</th>
<th>60°C 140°F</th>
<th>65°C 149°F</th>
<th>70°C 158°F</th>
<th>75°C 176°F</th>
<th>80°C 185°F</th>
<th>85°C 194°F</th>
<th>90°C 203°F</th>
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<td>GEO Classic Snow-white Modeling waxes</td>
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<td>GEO Classic Milling Wax</td>
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<td>GEO Block-out wax</td>
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* Recommended temperature setting for dipping pots / electric wax-up devices

- **Red**: Liquid – Dropping point
- **Orange**: Processable – Melting range
- **Yellow**: Solid – Solidification point
GEO Dip and GEO Rewax
Dipping waxes

Ready-to-use wax dipping pellets for the production of wax copings using wax dipping equipment.

Ordering information

GEO Dip, yellow-transparent, soft, approx. 200 g (7 oz.) No. 482 3000
GEO Dip, orange-transparent, soft, approx. 200 g (7 oz.) No. 482 3200
GEO Dip, green-transparent, soft, approx. 200 g (7 oz.) No. 482 3300
GEO Rewax, yellow-transparent, hard, approx. 210 g (7.35 oz.) No. 651 0000

Suitable accessories
Renfert dipping waxes —
A perfect team with hotyi LED/hotty and Vario E → Pages 83–84

Areas of application
- Precise copings for all crown and bridge techniques.
- Organic, burns residue-free, suitable for full and press ceramic techniques.

GEO Dip
Soft, elastic dipping wax with excellent shaping characteristics.

Advantages
- Highly precise wax copings due to low shrinkage.
- No deformation on removal due to elastic and tear-resistant wax copings.

GEO Rewax
Hard, less elastic dipping wax with excellent shaping properties.

Advantages
- Minimal contraction and high stability due to coordinated material properties.
- Very good carving and cutting characteristics due to an ideal wax hardness.
GEO Expert Line
GEO Expert Wax Set A. Bruguera

Wax set for creating monolithic, diagnostic and esthetic wax-ups for single restorations and bridgework according to the philosophy developed by August Bruguera.

An esthetic wax-up helps patients and dentists envisage and evaluate the finished restoration precisely. It promotes perfect coordination between the patient, dentist and laboratory.

Advantages
- Natural tooth contours and shades are easily created using the manual by August Bruguera.
- Wax-ups are quickly and neatly sculpted using the modeling and effect waxes with their excellent modeling and carving properties.
- Even the finest of structures such as cusps and mamelons can be sculpted precisely thanks to the balanced flow and solidification times coupled with optimum positional stability.

Areas of application
- Monolithic and diagnostic wax-ups
- Esthetic, true-to-nature, hyper-realistic wax-ups
- Customization of tooth-shaded wax-ups
- All-ceramics and pressable ceramics
- Conventional crown and bridge techniques
- Single crowns, inlays, onlays
- Bridge restorations

“The GEO Expert Wax Set, which I co-developed, includes comprehensive guidelines for experts, individualists and those eager to learn. In my manual I use illustrations and texts to show step-by-step how to create monolithic, diagnostic and hyper-realistic true-to-nature wax-ups.”

August Bruguera, Dental Technician

Ordering information

GEO Expert Wax Set A. Bruguera, German, No. 6340000
GEO Expert Wax Set A. Bruguera, English, No. 6340001
GEO Expert Wax Set A. Bruguera, Spanish, No. 6340002
GEO Expert Wax Set A. Bruguera, Italian, No. 6340003
GEO Expert Wax Set A. Bruguera, French, No. 6340004
GEO Expert dentin A. Bruguera, dentin opaque, hard, 40 g (1.41 oz.), No. 6340100
GEO Expert enamel A. Bruguera, enamel transparent, hard, 40 g (1.41 oz.), No. 6340200
GEO Expert sculpture A. Bruguera, gray opaque, hard, 40 g (1.41 oz.), No. 6340300
GEO Expert translucent A. Bruguera, translucent transparent, hard, 40 g (1.41 oz.), No. 6340400
GEO Expert effect white A. Bruguera, white opaque, hard, 2 x 4 g (2 x 0.14 oz.), No. 6340110
GEO Expert effect orange A. Bruguera, orange transparent, hard, 2 x 4 g (2 x 0.14 oz.), No. 6340210
GEO Expert effect blue A. Bruguera, blue transparent, hard, 2 x 4 g (2 x 0.14 oz.), No. 6340310
GEO Expert effect brown A. Bruguera, brown transparent, hard, 2 x 4 g (2 x 0.14 oz.), No. 6340410

Contents GEO Expert Wax Set A. Bruguera

Wax presentation palette with transparent lid and user guide according to the philosophy of August Bruguera; 4 modeling waxes of 40 g each: GEO Expert sculpture / dentin / enamel / translucent; 4 effect waxes of 4 g each: GEO Expert effect white/ orange / blue / brown

Range of applications

<table>
<thead>
<tr>
<th>GEO Expert A. Bruguera</th>
<th>Conventional crown and bridge techniques</th>
<th>All-ceramics and pressable ceramics</th>
<th>Esthetic wax-up</th>
<th>Special waxes</th>
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<td>sculpture</td>
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<tr>
<td>translucent</td>
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<td>effect brown</td>
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<td>cervical red-orange</td>
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</tbody>
</table>

*burns without residue
The modeling and effect waxes in the GEO Expert Line are hard waxes with excellent modeling and carving properties.

The modeling waxes GEO Expert sculpture/dentin are developed specifically for modeling monolithic wax-ups and conventional modeling for crown and bridgework.

The GEO Expert enamel and translucent modeling waxes are organic and transparent. They burn out residue-free and are suitable for all-ceramics and pressable ceramics.

The modeling waxes GEO Expert dentin/enamel/translucent are tooth-colored waxes for modeling and optimum visualization of esthetic wax-ups.

The effect waxes GEO Expert effect white/orange/blue/brown are for customizing tooth-shaded, true-to-nature wax-ups.

The cervical wax, GEO Expert, is an esthetical, tension-free cervical wax in a red-orange color. It can also be used for flooding and blocking out cavities. This cervical wax has organic constituents and burns-out residue-free.

**Advantages**
- Soft and slightly elastic cervical and undercut wax, ideal for creating the natural shade of a tooth neck.
- Ultra-thin preparation margins due to good adaption and carving properties.
- Precision and accurate fit due to minimal contraction.

**Ordering information**
GEO Expert cervical red-orange A. Bruguera, red-orange transparent, soft-medium hard, 40 g (1.41 oz.) No. 634 0500

**Further information**
www.renfert.com/geowax
GEO Classic Line
Modeling and special waxes

The GEO Classic modeling waxes are a selection of high quality, medium hardness and hard waxes, for use in crown and bridge work and for milling techniques.

<table>
<thead>
<tr>
<th>GEO Classic</th>
<th>Conventional crown and bridge techniques</th>
<th>All-ceramics and pressable ceramics*</th>
<th>Esthetic wax-up</th>
<th>Special waxes</th>
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<tbody>
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<td>Beige-opaque</td>
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<td>Gray-opaque</td>
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<tr>
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<td>Cervical wax burgundy-transparent</td>
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<td>Cervical and Undercut wax red-transparent</td>
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<td>Milling wax blue-opaque</td>
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<td>✔</td>
</tr>
</tbody>
</table>

*burns without residue

Areas of application
- Frameworks
- Single crowns, inlays and onlays
- Bridge restorations
- Milling techniques, telescope and conical crown techniques
- Full and press-ceramic
- Monolithic & diagnostic wax-ups

These organic, transparent modeling waxes burn-out residue-free and are especially suitable for full and press-ceramic techniques. All GEO Classic modeling waxes are perfectly suitable for use with an electric wax knife or with a naked flame.
GEO Classic Basic Set

Modeling waxes in a set

A selection of medium hardness and hard modeling waxes with very good carving and modeling characteristics for the production of crown and bridge restorations.

**Advantages**
- Ideal starter set in the Renfert GEO Classic wax line.
- Covers a wide spectrum of applications for fixed restorations.

**Contents**
GEO Classic mint-transparent, GEO Classic Natural dentine opaque, GEO Classic Avantgarde grey-opaque, GEO Classic Snow-white opaque, GEO Classic Milling wax blue-opaque, GEO Classic Cervical and undercut wax red-transparent à 20 g (0.70 oz.)

**Ordering information**
GEO Classic Basic Set No. 493 0004

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GEO Classic

Modeling waxes

The GEO Classic modeling waxes are hard waxes with very good modeling and carving characteristics. The organic transparent modeling waxes burn-out residue-free. The inorganic opaque waxes are well suited for the production of conventional restorations using the casting technique.

**Advantages**
- Very good flowing and modeling characteristics due to a wide melting range.
- Highly precise fitting accuracy due to very low shrinkage.
- Ideally suited for occlusal design due to its non-elastic and hard wax quality.

**Ordering information**
GEO Classic, beige-opaque, hard, 75 g (2.63 oz.) No. 497 0100
GEO Classic, gray-opaque, hard, 75 g (2.63 oz.) No. 497 0200
GEO Classic, mint-opaque, hard, 75 g (2.63 oz.) No. 497 0300
GEO Classic, blue-transparent, hard, 75 g (2.63 oz.) No. 497 1200
GEO Classic, mint-transparent, hard, 75 g (2.63 oz.) No. 497 1300

**Range of applications**
Overview GEO Classic Waxes ➔ Page 166
GEO Classic Avantgarde
Modeling waxes

The inorganic, opaque, medium hardness GEO Classic Avantgarde modeling waxes with excellent modeling and carving characteristics are ideally suited for conventional crown and bridge techniques. They are especially suited for modeling with an electric wax knife.

Advantages
- Extremely quick and efficient modeling due to a very low and narrow melting range.
- Clean chip formation due to excellent carving properties.
- Optimal modeling results as the wax cools quickly and has a very low degree of solidification contraction.

Ordering information
GEO Classic Avantgarde, beige-opaque, medium hard, 75 g (2.63 oz.) No. 495 0100
GEO Classic Avantgarde, gray-opaque, medium hard, 75 g (2.63 oz.) No. 495 0200
GEO Classic Avantgarde, mint-opaque, medium hard, 75 g (2.63 oz.) No. 495 0300

Range of applications
Overview GEO Classic Waxes ➔ Page 166

GEO Classic Natural
Modeling waxes

Hard modeling waxes for the fabrication of diagnostic and aesthetical wax-ups for fixed restorations. The organic modeling wax GEO Natural dentin-transparent burns out residue-free and is especially suited for full and press-ceramic techniques.

Advantages
- Easy production of natural looking, life-like wax-ups with the aid of dentine colored, transparent or opaque modeling waxes.
- Very good flowing and modeling characteristics due to a wide melting range.
- High precision and fitting accuracy due to very low shrinkage.

Ordering information
GEO Classic Natural, dentine-opaque, hard, 75 g (2.63 oz.) No. 499 0300
GEO Classic Natural, dentine-transparent, hard, 75 g (2.63 oz.) No. 499 0400

Range of applications
Overview GEO Classic Waxes ➔ Page 166
The GEO Classic Snow-white modeling waxes are medium hard, white modeling waxes for the fabrication of functional wax-ups in the articulator, on various frameworks. GEO Classic Snow-white is available as an organic (transparent) wax or as an inorganic (opaque) modeling wax which burns out residue-free.

**Advantages**
- Quick, precise production of white wax-ups for functional planning on situation and master models.
- Quick and precise waxing due to an extremely narrow melting range and low shrinkage.
- Very good modeling and carving characteristics due to coordinated material properties.

**Ordering information**
- GEO Classic Snow-white, white-opaque, medium hard, 75 g (2.63 oz.) No. 499 0101
- GEO Classic Snow-white, white-transparent, medium hard, 75 g (2.63 oz.) No. 499 0201

**Range of applications**
Overview GEO Classic Waxes → Page 166

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A hard, stable and tension-free cervical wax for precise modeling of the cervical edge. The GEO Classic cervical wax is an organic wax which burns-out residue-free. It is ideally suited for use with conventional crown and bridge techniques as well as for full and press-ceramic techniques.

**Advantages**
- Exact and ultra thin, adaptable preparation margin due to the especially stable cervical wax.
- Precise and accurately fitting edges due to low contraction.
- Excellent sculpting and carving characteristics due to coordinated material properties.

**Ordering information**
- GEO Classic Cervical wax, burgundy-transparent, hard, 75 g (2.63 oz.) No. 486 1000

**Range of applications**
Overview GEO Classic Waxes → Page 166
GEO Classic
Cervical and undercut wax

A soft, slightly elastic and tension-free cervical and undercut wax for precise modeling of the cervical margin. It can be used for building-up slight undercuts and cavities and for flooding. This cervical wax and undercut wax has organic constituents and burns-out residue-free. It is very good for use in classic crown and bridge techniques as well as in full and press-ceramic techniques.

**Advantages**
- Distinctly softer and more elastic than the harder and more stable GEO Classic cervical wax.
- High precision and fitting accuracy due to low contraction.
- Ultra thin preparation edges due to very good adaption and carving properties.

**Ordering information**
GEO Classic Cervical and undercut wax, red-transparent, soft-medium hard, 75 g (2.63 oz.) No. 4891000

GEO Classic
Milling wax

A hard, opaque milling wax, ideally suited for machine processing in milling technology. Due to its low and narrow melting range, this milling wax is ideal for quick and efficient modeling of telescope, conical crowns and attachment work and then subsequent wax milling.

**Advantages**
- Smooth and sharp contoured wax surfaces due to coordinated material properties.
- No chip formation due to ideal wax hardness.
- No adhesion or smearing of wax chips on carbide cutters or wax burs and carvers when processing at the recommended rpm between 2,500 and 5,000 1/min.

**Ordering information**
GEO Classic Milling wax, blue-opaque, extra-hard, 75 g (2.63 oz.) No. 4851000

**Range of applications**
Overview GEO Classic Waxes ➔ Page 166
GEO Crowax Line
Modeling and special waxes

The modeling waxes in the GEO Crowax line are medium hard universal waxes in handy tins for use in crown and bridge techniques as well as model casting framework techniques.

Range of applications

<table>
<thead>
<tr>
<th>GEO Crowax</th>
<th>Conventional crown and bridge techniques</th>
<th>All-ceramics and pressable ceramics*</th>
<th>Special waxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green-transparent</td>
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<td>Cervical and Undercut Wax</td>
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<tr>
<td>red-transparent</td>
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</tbody>
</table>

*burns without residue

Areas of application
- Frameworks
- Single crowns, inlays, onlays
- Bridge restorations
- Full and press-ceramic
- Cast metal dentures
- Monolithic wax-ups
These modeling waxes are suitable for use with a naked flame and an electric wax knife. The organic, transparent GEO Crowax modeling waxes burn-out residue-free and are suitable for full and press-ceramic techniques.

**Advantages**
- Very good modeling and carving characteristics due to coordinated material properties.
- High precision and fitting accuracy due to low shrinkage.
- Quick waxing due to small melting range.

The universal GEO Crowax cervical and undercut wax, is tension-free, soft to medium hard special wax for the cervical margin, as well as for building-up cavities and flooding. This cervical and undercut wax has organic constituents and burns-out residue-free. It is suitable for use in conventional crown and bridge techniques and also for full and press-ceramic techniques.

**Advantages**
- Easy adaption due to soft and slightly elastic wax consistency.
- Ultra thin preparation margins due to very good carving qualities.
- High precision and fitting accuracy due to low contraction.

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**Ordering information**

| GEO Crowax, green-transparent, medium hard, 80 g (2.82 oz.) | No. 4750100 |
| GEO Crowax, blue-transparent, medium hard, 80 g (2.82 oz.) | No. 4750200 |
| GEO Crowax, red-transparent, medium hard, 80 g (2.82 oz.) | No. 4750300 |
| GEO Crowax, beige-opaque, medium hard, 80 g (2.82 oz.) | No. 4750400 |
| GEO Crowax, gray-opaque, medium hard, 80 g (2.82 oz.) | No. 4750500 |

**Range of applications**

Overview GEO Crowax Waxes → Page 171
A set of pontics for modeling anterior and posterior bridges for veneer technique with acrylic or porcelain.

**Advantages**
- Universal sizes compatible for all applications – time saving!
- No distortion during removal due to the high stability.
- Tooth shapes are proportionally reduced.

**Ordering information**
- GEO Pontics Set, 10 pieces each in 6 sizes
  - No. 500 0000
- GEO Pontics, UJ right, posterior teeth 14–17
  - No. 500 0100
- GEO Pontics, UJ, anterior 12–22, 20 pieces
  - No. 500 0200
- GEO Pontics, UJ left, posterior teeth 24–27, 20 pieces
  - No. 500 0300
- GEO Pontics, UJ left, posterior teeth 34–37, 20 pieces
  - No. 500 0400
- GEO Pontics, UJ, anterior teeth 32–42, 20 pieces
  - No. 500 0500
- GEO Pontics, LJ right, posterior teeth 44–47, 20 pieces
  - No. 500 0600

**Further information**
www.renfert.com/P48

An optimal wax mixture makes the GEO wax wire tension-free, thus limiting elastic recovery.

**Advantages**
- Dimensionally stable patterns.
- Stress-free working.
- Easily adaptable, but dimensionally stable.

**Ordering information**
- GEO Wax wire turquoise/
  - Hard
  - No. 676 2020
  - No. 678 3020
  - Extra-hard
  - No. 675 1020
- GEO Wax wire blue/
  - Medium-hard
  - No. 676 2025
  - No. 678 3025
  - Extra-hard
  - No. 675 1025
- GEO Wax wire light-blue/
  - Extra-hard
  - No. 676 2030
  - No. 678 3030
  - Extra-hard
  - No. 675 1030
- GEO Wax wire 2.0 mm, ca. 250 g
  - (12 ga. / 0.55 lbs.)
  - No. 676 2035
  - No. 678 3035
  - Extra-hard
  - No. 675 1035
- GEO Wax wire 3.0 mm, ca. 250 g
  - (9 ga. / 0.55 lbs.)
  - No. 676 2040
  - No. 678 3040
  - Extra-hard
  - No. 675 1040
- GEO Wax wire 4.0 mm, ca. 250 g
  - (6 ga. / 0.55 lbs.)
  - No. 676 2050
  - No. 678 3050
  - Extra-hard
  - No. 675 1050
GEO Triangular casting sprues

Set of casting sprues for the effective attachment of the wax model.

**Advantages**
- Shape stable, extra-hard casting system.
- No distortion of the bridge during sprue attachment.
- Optimal flow of metal.

**Ordering information**
GEO Triangular casting sprues, approx. 100 pcs. No. 680 3000

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GEO Pear-shaped wax casting sprues

Casting sprue with pear-shaped melting reservoir.

**Advantages**
- Pear-shape for an optimal flow of molten metal.
- The melting reservoir ensures controlled cooling.
- Cavity-free and accurately fitting cast objects.

**Ordering information**
GEO wax casting pears, length 35 mm (1.38"), Ø pear head 6.6 mm (0.26"), approx. 200 pcs. No. 501 1100

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**Tip!**
The pear shape of the casting sprue is ideal as a melting reservoir. The large surface area of the attachment allows controlled cooling. The molten liquid in the casting object solidifies first, contracting and drawing the still molten metal out of the pear.
GEO Model casting system

Wax range for model casting techniques

The most important pre-fabricated wax parts for efficient working are included in the clearly designed assortment.

Ordering information

GEO model casting assortment No. 633 0000

Contents

4 sheets of casting wax smooth 0.3 mm (28 ga.); 4 sheets of casting wax fine stippled 0.35 mm (27 ga.); 4 sheets of casting wax fine stippled 0.5 mm (24 ga.); 4 sheets of casting wax coarse stippled 0.5 mm (24 ga.); 5 sheets of casting wax 0.6 mm (22 ga.); 3 sheets of Bonyhard clasps; 3 sheets of molar clasps; 3 sheets of premolar clasps; 3 sheets of ring clasps; 3 sheets of grid meshes; 10 pieces of lingual bars; 10 pieces of perforated retainers; 10 pieces of wax rods 0.8 mm (20 ga.); 30 g of sculpturing wax for model casting; 30 g of undercut wax

Further information

www.renfert.com/P48

“The light turquoise color of the GEO model casting sheets has a high translucency, which allows optimal transparency of the marked lines.”

Cim Özyurt, Product Management, Dental Technician

Advantages

- Practical assortment box for an organised and clean work bench.
- All contents can be ordered individually.
- No distractions or eyestrain due to a variety of different colors.
GEO Block-out wax

This wax is suitable for blocking undercuts, cavities or errors on plaster models for both model casting and crown as well as for bridge techniques.

**Advantages**
- No dimensional changes during processes involving heat.
- Ideal for duplication with duplicating gels or agar-agar.
- Very high adhesive qualities even on a damp model.

**Ordering information**

GEO undercut wax, pink opaque, 75 g (2.63 oz.)
No. 650 0000

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GEO Casting wax

Self-adhesive preparation wax for laying under saddles.

**Advantages**
- Optimal adhesion.
- Defined undercut in metal.
- No penetration of duplicating material under wax.

**Ordering information**

GEO Casting-Wax, 0.3 mm (28 ga.), 32 sheets
No. 445 3003
GEO Casting-Wax, 0.4 mm (26 ga.), 32 sheets
No. 445 3004
GEO Casting-Wax, 0.5 mm (24 ga.), 32 sheets
No. 445 3005
GEO Casting-Wax, 0.6 mm (22 ga.), 32 sheets
No. 445 3006

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**Efficient wax-up techniques...**

**Quality, ergonomics & an increase in efficiency**

By using an electric wax-knife and a wax heating unit, in the fields of crown & bridgework and also prosthodontics, it is not only possible to increase the quality, but also double the wax-up speed and therefore save up to 50% of time (…)

Read more in our Blog.
blog.renfert.com

#RenfertBlog #DTKnowHow #Waxup #Prosthodontics
GEO Cast Model Modeling wax

For modeling cast model sections on the investment model.

Advantages
- Wax composition is precisely matched to preformed wax clasps.
- High depth of vision for max. contour definition.
- Optimum modeling of occlusal surfaces or sharp edges.

Ordering information
GEO cast modeling wax, hard, turquoise opaque, 75 g (2.63 oz.) No. 6491000

GEO Cast Model Modeling wax

For modeling cast model sections on the investment model.

Advantages
- Wax precisely matched to preformed wax clasps.
- Ideal for recognising markings.
- Burns out without leaving a residue.

Ordering information
GEO cast modeling wax, standard, turquoise transparent, 75 g (2.63 oz.) No. 6490000

GEO sticking wax

Special wax for fixing denture parts and for preparing repair or welding work.

Advantages
- Optimal sticking characteristics on all dental materials.
- Precise preparation of repairs and soldering work.
- Ideal for fixing and positioning wax sprues and pre-fabricated wax patterns.

Ordering information
GEO sticking wax, pink transparent, 75 g (2.63 oz.) No. 4881000
GEO Preformed clasps
Wax clasp profiles

Anatomically shaped clasp profiles that run conically, made of easily adaptable wax. Also available with self-adhesive coating.

Advantages
- High pressure stability prevents the shape and structure from becoming crushed.
- Stress-free application and adaptation.
- Extremely smooth surface without pores and cavities.

1. GEO Premolar clasps
2. GEO Molar clasps
3. GEO Ring clasps straight
4. GEO Ring clasps
5. GEO Bonyhard clasps

Ordering information
1. GEO Premolar clasps, normal, 200 pieces No. 688 3002
2. GEO Premolar clasps, self-adhesive, 200 pieces No. 638 3002
3. GEO Molar clasps, normal, 200 pieces No. 688 3003
4. GEO Molar clasps, self-adhesive, 200 pieces No. 638 3003
5. GEO Ring clasps straight, normal, 200 pieces No. 688 3004
6. GEO Ring clasps straight, self-adhesive, 200 pieces No. 638 3004
7. GEO Ring clasps, normal, 200 pieces No. 688 3005
8. GEO Ring clasps, self-adhesive, 200 pieces No. 638 3005
9. GEO Bonyhard clasps, normal, 200 pieces No. 688 3010
10. GEO Bonyhard clasps, self-adhesive, 200 pieces No. 638 3010
GEO Wax retainers
Prefabricated wax retentions

Wax retention for model casting techniques.

**Technical data**

<table>
<thead>
<tr>
<th>GEO Retention grid, large</th>
<th>Sheet size (70 x 70 mm)</th>
<th>Sheet thickness (0.75 mm)</th>
<th>Structure / Ø (2.2 x 2.2 mm)</th>
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<tr>
<td>GEO Retention grid, fine</td>
<td>70 x 70 mm (2.76 x 2.76&quot;)</td>
<td>0.70 mm (0.03&quot;)</td>
<td>1.8 x 1.8 mm (0.07 x 0.07&quot;)</td>
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<tr>
<td>GEO Retention grid, diagonal</td>
<td>70 x 70 mm (2.76 x 2.76&quot;)</td>
<td>0.95 mm (0.04&quot;)</td>
<td>1.7 mm (0.07&quot;)</td>
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<tr>
<td>GEO Circular retainer</td>
<td>70 x 70 mm (2.76 x 2.76&quot;)</td>
<td>0.75 mm (0.03&quot;)</td>
<td>2.0 mm (0.08&quot;)</td>
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<tr>
<td>GEO Bar retainer</td>
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<td>1.40 mm (0.06&quot;)</td>
<td>6.9 mm (0.27&quot;)</td>
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<tr>
<td>GEO Perforated retainers, staggered</td>
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<td>1.30 mm (0.05&quot;)</td>
<td>2.8 mm (0.11&quot;)</td>
</tr>
<tr>
<td>GEO Perforated retainers, straight</td>
<td></td>
<td>1.30 mm (0.05&quot;)</td>
<td>2.0 mm (0.08&quot;)</td>
</tr>
</tbody>
</table>

**Ordering information**

1. GEO Retention grid, large, normal, 20 sheets No. 688 3007
2. GEO Retention grid, large, self-adhesive, 20 sheets No. 638 3007
3. GEO Retention grid, fine, normal, 20 sheets No. 688 3008
4. GEO Retention grid, fine, self-adhesive, 20 sheets No. 638 3008
5. GEO Retention grid, diagonal, normal, 20 sheets No. 688 3011
6. GEO Retention grid, diagonal, self-adhesive, 20 sheets No. 638 3011
7. GEO Circular retainer, normal, 20 sheets No. 688 3009
8. GEO Circular retainer, self-adhesive, 20 sheets No. 638 3009
9. GEO Bar retainer, normal, 10 sheets No. 688 3006
10. GEO Bar retainer, self-adhesive, 10 sheets No. 638 3006
11. GEO Perforated retainers, straight, 40 strips No. 664 3000
12. GEO Perforated retainers, staggered, 40 strips No. 662 3000

**Advantages**
- Easy, stress-free adaption due to the best wax quality.
- High pressure stability prevents distortion to shape or structure.
- High-quality surface structure for optimal casting results.

1. GEO retention meshes, coarse
- Large grid structure.

2. GEO retention meshes, fine
- Fine grid structure.

3. GEO retention mesh, diagonal
- Excellent retention effect due to special structure.

4. GEO grid meshes
- Easily adaptable.

5. GEO bar retainers
- Ideal for narrow lower jaw ridges.

6. GEO perforated retention, straight
- Ideal for lingual retention, even where space is limited.

7. GEO perforated retention, staggered
- Compact retention.
- The staggered arrangement provides optimum space for tooth arrangement.
GEO Casting wax smooth
Turquoise, transparent sheet wax with smooth surface.

Details
- Sheet size 75 x 150 mm (2.96 x 5.91").

Ordering information
GEO casting wax smooth, 0.30 mm (28 ga.), 15 sheets No. 640 3030
GEO casting wax smooth, 0.35 mm (27 ga.), 15 sheets No. 640 3035
GEO casting wax smooth, 0.40 mm (26 ga.), 15 sheets No. 640 3040
GEO casting wax smooth, 0.50 mm (24 ga.), 15 sheets No. 640 3050
GEO casting wax smooth, 0.60 mm (22 ga.), 15 sheets No. 640 3060

GEO Casting wax fine stippled
Turquoise, transparent sheet wax with fine surface pattern.

Details
- Sheet size 75 x 150 mm (2.96 x 5.91").

Ordering information
GEO casting wax fine stippled, 0.30 mm (28 ga.), 15 sheets No. 641 3030
GEO casting wax fine stippled, 0.35 mm (27 ga.), 15 sheets No. 641 3035
GEO casting wax fine stippled, 0.40 mm (26 ga.), 15 sheets No. 641 3040
GEO casting wax fine stippled, 0.50 mm (24 ga.), 15 sheets No. 641 3050
GEO casting wax fine stippled, 0.60 mm (22 ga.), 15 sheets No. 641 3060

GEO Casting wax coarse stippled
Turquoise, transparent sheet wax with prominent surface pattern.

Details
- Sheet size 75 x 150 mm (2.96 x 5.91").

Ordering information
GEO casting wax coarse stippled, 0.30 mm (28 ga.), 15 sheets No. 643 3030
GEO casting wax coarse stippled, 0.35 mm (27 ga.), 15 sheets No. 643 3035
GEO casting wax coarse stippled, 0.40 mm (26 ga.), 15 sheets No. 643 3040
GEO casting wax coarse stippled, 0.50 mm (24 ga.), 15 sheets No. 643 3050
GEO casting wax coarse stippled, 0.60 mm (22 ga.), 15 sheets No. 643 3060

GEO Casting wax veined
Turquoise, transparent sheet wax with distinct surface pattern.

Details
- Sheet size 75 x 150 mm (2.96 x 5.91").

Ordering information
GEO casting wax veined, 0.30 mm (28 ga.), 15 sheets No. 644 3030
GEO casting wax veined, 0.35 mm (27 ga.), 15 sheets No. 644 3035
GEO casting wax veined, 0.40 mm (26 ga.), 15 sheets No. 644 3040
GEO casting wax veined, 0.50 mm (24 ga.), 15 sheets No. 644 3050
GEO casting wax veined, 0.60 mm (22 ga.), 15 sheets No. 644 3060
GEO Lingual bars
Profile sections for forming lower jaw bars.

Advantages
- High pressure stability prevents the shape and structure from becoming crushed.
- Stress-free application and adaptation.
- Extremely smooth surface without pores and cavities.

Ordering information
GEO Lingual bars, 4 x 2 mm (0.16 x 0.08"), approx. 65 g (2.28 oz.) No. 667 3042

GEO Wax wire in bars
Wax profiles for forming edges or individual retainers.

Advantages
- Dimensionally stable patterns.
- Stress-free working.
- Easily adaptable.

Ordering information
GEO Wax wire in bars, 0.6 mm (22 ga.), approx. 12 g (0.42 oz.) No. 668 3006
GEO Wax wire in bars, 0.8 mm (20 ga.), approx. 25 g (0.88 oz.) No. 668 3008
GEO Wax wire in bars, 1.0 mm (18 ga.), approx. 37 g (1.30 oz.) No. 668 3010
GEO Wax wire in bars, 1.2 mm (16 ga.), approx. 50 g (1.75 oz.) No. 668 3012

“Do you need more information about model fabrication? Have a look at our model casting manual. Here, you will find a variety of step-by-step explanations from analysis to planning and manufacturing of a model. Just scan the QR code and get started!”

Cim Özyurt,
Product Management,
Dental Technician
Mesh inserts

Used to reinforce acrylic dentures for more stability.

Advantages
- Strong gold-plated mesh.
- Easy, individual adaptation.
- Guaranteed high stability of the acrylic denture.

Ordering information

Mesh inserts, gold-plated, Thickness 0.45 mm (0.02"),
Dimensions (W x H x D) 68 x 40 x 12.5 mm (2.68 x 1.58 x 0.49"), 5 pcs.
No. 232 1100

Strengthening grid

Insertion grid with increased stability for complete or partial upper dentures.

Advantages
- The denture will stay in position even if breaks or cracks should occur in the acrylic.
- In gold-plated or plain version.
- Improves the strength of an acrylic denture considerably.

Ordering information

Strengthening grid, plain, Thickness 0.4 mm (0.02"),
Dimensions (W x H x D) 59 x 54 x 14 mm (2.32 x 2.13 x 0.55"), 5 pcs.
No. 235 0004

Strengthening grid, gold-plated, Thickness 0.4 mm (0.02"),
Dimensions (W x H x D) 59 x 54 x 14 mm (2.32 x 2.13 x 0.55"), 5 pcs.
No. 235 0104

Mesh strengtheners

Fine mesh for individual reinforcement of acrylic dentures.

Advantages
- Easily adaptable.
- Simple to match by cutting individual shapes.

Ordering information

Mesh strengthening, medium, gold-plated, Thickness 0.4 mm (0.02"),
Dimensions 50 x 10 cm (19.70 x 3.94"), 1 roll
No. 223 2100

Mesh strengthening, medium, gold-plated, Thickness 0.4 mm (0.02"),
Dimensions 10 x 10 cm (3.94 x 3.94"), 3 sheets
No. 223 1100

Mesh strengthening, fine, gold-plated, Thickness 0.4 mm (0.02"),
Dimensions 50 x 10 cm (19.70 x 3.94"), 1 roll
No. 222 2100

Mesh strengthening, fine, gold-plated, Thickness 0.4 mm (0.02"),
Dimensions 10 x 10 cm (3.94 x 3.94"), 3 sheets
No. 222 1100
Mesh-Tray

Honeycomb shaped, lightweight firing tray for individual positioning of crowns and bridges in the porcelain oven.

**Advantages**
- Firing tray absorbs minimal heat.
- No transfer of tension onto the model.
- Supports made from a high temperature-resistant special alloy – can be individually shaped.

**Ordering information**

Mesh-Tray, base plate size (W x D x H) approx. 55 x 53 x 10 mm (2.17 x 2.09 x 0.39"), Ø supports 1 mm (0.04"), 2 base plates, 6 shaped and 4 straight supports

Support wires, Ø 1 mm (0.04"), 6 x shaped, 4 x straight

Support wires, Ø 1 mm (0.04"), 20 x straight

Mesh-Tray K

Firing tray with porcelain supports for individual positioning of crowns and bridges in the porcelain oven.

**Advantages**
- Construction ensures a similar expansion / contraction like the object.
- No transfer of tension to the model.
- Porcelain supports.

**Ordering information**

Mesh-Tray K, base plate size (B x T x H) approx. 55 x 53 x 10 mm (2.17 x 2.09 x 0.39"), Ø supports 2/3/4 mm (0.04/0.08/0.12"), 2 base plates, 10 porcelain supports

Porcelain supports, 3 x Ø 2 mm (0.04"), 4 x Ø 3 mm (0.08"), 3 x Ø 4 mm (0.12"), 10 pcs.

Mesh-Tray MK

Honeycomb firing-tray set with adjustable metal retention pins, which are covered with removable ceramic sleeves.

**Advantages**
- Constant firing temperature thanks to a low heat absorption.
- Can be used flexibly for all-ceramic and porcelain-fused-to-metal restorations.
- No consumption, durable, no breakage of insertion pins due to highly resistant metal retention pins.

**Ordering information**

Mesh-Tray MK, dimensions of base plate (W x D x H) approx. 55 x 53 x 10 mm (2.17 x 2.09 x 0.39"), 10 x preformed support wires (Ø supports 2/3/4 mm (0.04/0.08/0.12")), 2 base plates, 10 x ceramic support pins

Support wires, 10 x preformed support wires (3 x Ø 2 mm (0.04"), 4 x Ø 3 mm (0.08"), 3 x Ø 4 mm (0.12")), 10 x ceramic support pins
Fibertray
Textile firing tray for stable positioning of porcelain models during firing in the oven.

**Advantages**
- Remove minimal heat from object to be fired.
- Ideal for full porcelain restorations or large span bridge constructions.
- More stable than wool firing pads.

**Ordering information**
Fibertray, Ø 50 mm (1.97”), 10 pieces
No. 19190000

Active Carbon
For regularly cleaning the porcelain furnace by absorbing the oxide deposits during the firing process.

**Advantages**
- Ideal for firing non-precious metals, low gold content and bonding alloys as well as oven solderers.
- Prevents contaminative deposits.
- Does not affect the porcelain quality.

**Ordering information**
Active Carbon, 10 pieces, incl. 2 supports
No. 20650000

Ceramex
Stripping agent for removing porcelain, investment material, metal oxides and zircon oxide.

**Advantages**
- Effective removal of fired porcelain in an ultrasonic bath.
- Removal of oxides on bonding metals.
- Etching full porcelain inlays and crowns before final fixation.

**Ordering information**
Ceramex, 1 l (0.26 gal)
No. 21871000
Overview Polishing Agents

### Description | Zirconium oxide | Lithium disilicate | Veneering ceramic | Hybrid ceramic | High performance polymers | Veneering acrylic | Page
---|---|---|---|---|---|---|---
PREP | HL | PREP | HL | PREP | HL | PREP | HL | PREP | HL | PREP | HL
Renfert Polish ZrO₂ | – | ✔ | – | – | – | – | – | – | – | – | – | 186
Renfert Polish LiSi₂ | – | – | – | ✔ | – | – | – | – | – | – | – | 186
Renfert Polish all-in-one | – | ✔ | – | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | 186
Kohinoor L | – | – | – | – | – | ✔ | – | – | – | – | – | 187
Brinell L | – | – | – | – | ✔ | – | – | – | – | – | – | 187
Dia-Finish L | – | – | – | – | – | – | – | – | – | – | ✔ | 136
Opal L | – | – | – | – | – | – | – | – | – | – | ✔ | 188

PREP = Prepolishing | HL = High luster

### Description | Denture resin | Precious metals Model casting/ non precious alloys | Page
---|---|---|---|---|---|---|---
PREP | HL | PREP | HL | PREP | HL | PREP | HL | Page
Brinell L | – | – | – | – | – | ✔ | – | – | 187
Opal L | ✔ | ✔ | – | – | – | – | – | – | 188
Saphir | – | – | – | ✔ | ✔ | ✔ | ✔ | ✔ | 188
Universal polishing paste beige | – | ✔ | – | – | – | – | – | – | 188

PREP = Prepolishing | HL = High luster

"Achieve the required level of glaze quickly. I approached Renfert with this requirement. The outcome of this cooperation was the Renfert polishing pastes! You can achieve the required level of glaze in a few seconds using Renfert Polish all-in-one polishing paste – the best all-round paste I know of."

**Jost P Prestin, Master Dental Technician**

"For years, we have searched for a special polishing paste for zirconia, pressable ceramic and PFM: particularly for a targeted level of glaze of delicate veneers or the surface polish of implantological restorations, so that optimum apposition of soft tissue is guaranteed. Renfert polishing pastes, which I use daily, immediately produce a brilliant level of glaze, even at low speed."

**Alain Ardic, Dental Technician**

"I have tested a lot of polishing pastes but none completely met my requirements. I finally found the perfect solution with Renfert Polish."

**Vincenzo Mutone, Dental Technician**
Renfert Polish
Diamond polishing pastes

Diamond polishing pastes for universal application and specific use, for high-gloss polishing of ceramic materials such as lithium disilicate, zirconium oxide, veneering and hybrid ceramics, as well as high performance polymers and veneering composites.

Renfert Polish ZrO₂
- Polishing paste for zirconium oxide with specially coordinated abrasive properties due to extra coarse diamond grit.
- High gloss finish is achieved quickly especially in difficult to reach occlusal areas.
- Smear-free and clean polishing due to a balanced ratio of binder.

Renfert Polish LiSi₂
- Polishing paste specifically for lithium disilicate with an exactly coordinated amount of coarse diamond grit.
- Quick high-gloss finish with a great shine and at the same time low material consumption.
- Smear-free and clean polishing due to a balanced ratio of binder.

Renfert Polish all-in-one
- Polishing paste for universal use, with a wide spectrum of diamond grain sizes.
- Quick, high-gloss finish on various different materials such as lithium-disilicate, zirconium oxide, veneering and hybrid ceramics such as high performance polymers and veneering composites.
- Economical use with one polishing paste for a variety of different materials.

Ordering information
Renfert Polish all-in-one, 10 g No. 5100000
Renfert Polish ZrO₂, 10 g No. 5101000
Renfert Polish LiSi₂, 10 g No. 5102000

Suitable accessories
Polishers and Polishing Brushes → Pages 134–138

Further information
www.renfert.com/polish

“I use the silicone polisher (No. 86 0000) for pre-polishing materials such as lithium-disilicate, zirconium oxide, veneering and hybrid ceramics such as high performance polymers and veneering composites. For me, this is the key to successful, quick and efficient high-gloss polishing.”

Manfred Tauber
Product Management, Master Dental Technician
Kohinoor L

Fine, adhesive diamond polishing paste for high-luster polish on porcelain.

**Advantages**
- Optimum uptake with rotating polishing brush.
- Very economical in its use.
- Ideal for “hand polishing” porcelain work.

<table>
<thead>
<tr>
<th>Ordering information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kohinoor L, 5 g (0.18 oz.) No. 5160001</td>
</tr>
</tbody>
</table>

Brinell L

Brinell L is a high-luster polishing paste impregnated with diamond powder for precious metal bonding alloys and porcelain.

**Advantages**
- The finest diamond particles achieve the optimum high-luster shine.
- Sparing application via the measuring syringe.
- Efficient take-up using felt wheels.

<table>
<thead>
<tr>
<th>Ordering information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brinell L, 5 ml (0.17 fl.oz.), with 1 cotton buff (No. 205 1000), 1 felt wheel and 1 mandrel No. 5190001</td>
</tr>
</tbody>
</table>

Polishing ceramics – quickly and efficiently

Everyone is familiar with the problem. Many different diamond polishing pastes are tested but none produces the required result, namely an effective and quick polish of the respective material. As a result, there are four or five containers in the laboratory that have been opened (...)

Find out more on this topic in our blog.
blog.renfert.com

#RenfertBlog #Polish #PolishingCeramics
Opal L
White high-luster polishing paste for all acrylic facings using a handpiece.

**Advantages**
- Particularly suitable for light-curing acrylis.
- Quick polishing effect.
- Quickly smoothes the surface without altering the structure.

**Ordering information**
Opal L, 35 g (1.23 oz.) No. 5200001

Saphir
High-luster polishing paste for precious metal and chrome-cobalt alloy crowns and bridges.

**Advantages**
- Special formula made up of high quality raw materials.
- For general use on all alloys.
- Optimum polishing effect with Polisoft pre-polishers and Bison brushes.

**Ordering information**
Saphir, approx. 250 g (8.75 oz.) No. 5150000

Universal polishing paste beige
Paste for high-luster polish on all prosthetic acrylics.

**Advantages**
- Hard polishing paste for mirror-like surface.
- Long-lasting.
- Fine grained consistency.

**Ordering information**
Universal polishing paste, beige, 6 x approx. 200 g (7.0 oz.) No. 5131000
Overview cleaning, etching and polishing agents

<table>
<thead>
<tr>
<th>Description</th>
<th>Suitable for</th>
<th>Removal of</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYMPOfluid Universal</td>
<td>Dentures, orthodontic appliances and splints</td>
<td>Plaque, tartar and adhesive creme</td>
<td>91</td>
</tr>
<tr>
<td>SYMPOfluid Nicoclean</td>
<td>Dentures and splints</td>
<td>Nicotine stains</td>
<td>91</td>
</tr>
<tr>
<td>Ceramex</td>
<td>Etching of porcelain, metal-ceramic alloys</td>
<td>Porcelain, investment material and metal oxides</td>
<td>184</td>
</tr>
<tr>
<td>GO 2011 speed</td>
<td>Mixing bowls, acrylic dentures, impression trays, castings, instruments and utilities</td>
<td>Dental stones, alginites</td>
<td>159</td>
</tr>
<tr>
<td>Electrolyte</td>
<td>Electrolytic polishing of chrome cobalt frames</td>
<td></td>
<td>159</td>
</tr>
</tbody>
</table>

GO 2011 speed

Suitable for cleaning different instruments and aids quickly and thoroughly in only 50% of the time in comparison to conventional plaster and alginate solvents.

**Advantages**
- Efficient removal of stubborn residues in a cleaning bath and even faster in an ultrasonic unit.
- Ready-to-use solution in a handy canister.

**Ordering information**
GO 2011 speed, 2 l (0.53 gal) No. 20120000

Elektrolyte

For electrolytic high-luster polishing of chrome cobalt frames in special units.

**Advantages**
- Special additives ensure time-saving and high efficiency during electrolytic polishing.
- For all units with copper, precious metal or titanium electrodes.

**Ordering information**
Elektrolyte, 2 l (0.53 gal) No. 15241000
Elektrolyte, 10 l (2.64 gal) No. 15242000
Order replacement parts very quickly. But how?

To be able to help you with a replacement part we need to know the article number and the unit’s status: newer units have a type plate on which you can see the valid status for your unit. Older units do not have this plate which means that we simply need the equipment’s purchase date. With this information simply call your Renfert dealer or find your required replacement part on the Renfert homepage.

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making work easy