

## For EMS® Scaling

| Model |                                                                                             |  |  |
|-------|---------------------------------------------------------------------------------------------|--|--|
| G1    | Removing supragingival calculus in all quadrants.                                           |  |  |
| G2    | Removing heavy supragingival calculus.                                                      |  |  |
| G3    | Removing supragingival calculus in all quadrants, including interproximal and sulcus areas. |  |  |
| G4    | Removing supragingival calculus in all quadrants, including interproximal and sulcus areas. |  |  |
| G5    | Removing supragingival calculus in all quadrants.                                           |  |  |
| G6    | Removing heavy supragingival calculus.                                                      |  |  |

## Model

|     |                                                                                             |  |  |
|-----|---------------------------------------------------------------------------------------------|--|--|
| G7  | Applied to removing crown. Put the tip onto neck surface of crown and activate the scaler.  |  |  |
| G8  | Removing post. Put the tip onto the post and activate the scaler.                           |  |  |
| G9  | Removing supragingival calculus, interdental calculus and calculus on the neck of teeth.    |  |  |
| G10 | Removing supragingival calculus in all quadrants, including interproximal and sulcus areas. |  |  |
| G12 | Removing supragingival calculus on lingual surfaces in all quadrants.                       |  |  |

Dimension Unit: mm

## For EMS® Inlay Preparation

|     |                                                                                                                                                                    |  |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| G20 | Diamond coated (50um grit) tip for dentin abrading. Applied to supragingival shoulder preparation after using the dental bur for subgingival shoulder preparation. |  |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

## For EMS® Inlay Preparation

| Model |                                                                                                                         |  |  |
|-------|-------------------------------------------------------------------------------------------------------------------------|--|--|
| G21   | Diamond coated (120um grit) tip for dentin abrading. Applied to polish prepared supragingival and subgingival shoulder. |  |  |
| G28   | Amalgam condensation.                                                                                                   |  |  |
| G30   | Diamond coated (90um grit) tip for preparation between pits and fissures.                                               |  |  |
| G31   | Diamond coated (90um grit) tip for preparation of the mesial cavity.                                                    |  |  |
| G32   | Diamond coated (90um grit) tip for preparation of the distal cavity.                                                    |  |  |
| G33   | Diamond coated (90um grit) tip for preparation of the tooth veneers.                                                    |  |  |

## For EMS®

## Periodontics

Dimension Unit: mm

|      |                                                                                         |  |  |
|------|-----------------------------------------------------------------------------------------|--|--|
| P1   | Slim and sharp tip for scaling calculus in subgingival shallow pocket.                  |  |  |
| P2L  | Left curved tip for removing calculus from very narrow inter-root space and furcation.  |  |  |
| P2LD | Left curved diamond coated (40um grit) tip for root planning.                           |  |  |
| P2R  | Right curved tip for removing calculus from very narrow inter-root space and furcation. |  |  |
| P2RD | Right curved diamond coated (40um grit) tip for root planning.                          |  |  |
| P3   | Slim and sharp tip for scaling calculus in subgingival deep pocket.                     |  |  |

## For EMS® Periodontics

| Model |                                                                                                                                                                          |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P3L   | Left curved tip for scaling calculus in subgingival deep pocket.<br>                                                                                                     |
| P3R   | Right curved tip for scaling calculus in subgingival deep pocket.<br>                                                                                                    |
| P3D   | Diamond coated (40um grit) tip for root planning after periodontal flap surgery. It's can also be used to edge planning of artificial crown and furcation expanding.<br> |
| P4    | Applied to clean and irrigate calculus of periodontal shallow pockets.<br>                                                                                               |
| P5    | Removing calculus in the adjacent teeth and gingival margin of the neck.<br>                                                                                             |

Dimension Unit: mm

| Model |                                                                               |
|-------|-------------------------------------------------------------------------------|
| P6    | Slim and sharp tip for scaling calculus in periodontal deep pockets.<br>      |
| P7    | Slim and sharp tip for scaling calculus in periodontal pockets.<br>           |
| P8    | Slim and sharp tip for scaling calculus in periodontal pockets.<br>           |
| P10   | Gentle scaling and removing of calculus in the periodontal pockets.<br>       |
| P11   | For highly efficient removing of subgingival stubborn calculus.<br>           |
| P12   | For highly efficient removing of posterior subgingival stubborn calculus.<br> |

## For EMS® Periodontics

| Model |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| P14L  | Left curved tip for highly efficient removing of posterior subgingival stubborn calculus.<br>           |
| P14R  | Right curved tip for highly efficient removing of posterior subgingival stubborn calculus.<br>          |
| P18   | For probing deep periodontal pocket and removing subgingival calculus.<br>                              |
| P20   | For removing calculus in adjacent teeth, gingival margin of neck and subgingival pocket within 3mm.<br> |
| P20L  | Left curved tip for highly efficient removing of suborn calculus in posterior subgingival.<br>          |

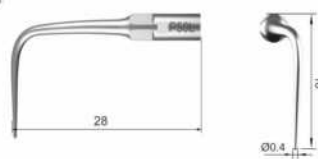
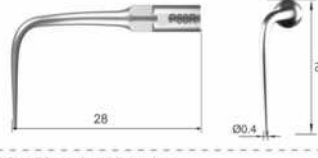
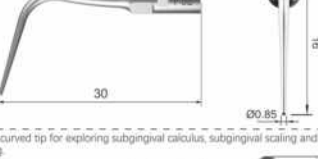
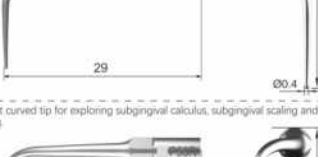
Dimension Unit: mm

| Model |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| P20R  | Right curved tip for highly efficient removing of suborn calculus in posterior subgingival.<br>         |
| P21L  | Left curved tip for scaling of root bifurcation and root surface of adjacent posterior teeth area.<br>  |
| P21R  | Right curved tip for scaling of root bifurcation and root surface of adjacent posterior teeth area.<br> |
| P22L  | Left curved tip for removing deep pocket calculus.<br>                                                  |
| P22R  | Right curved tip for removing deep pocket calculus.<br>                                                 |

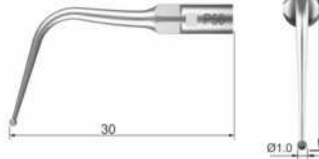
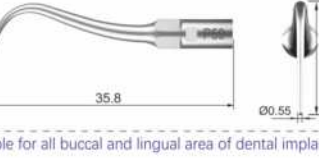
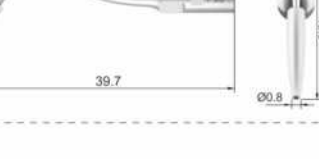


## For EMS®

## Periodontics

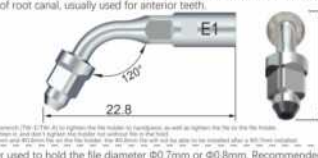
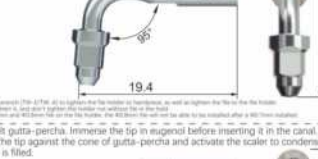
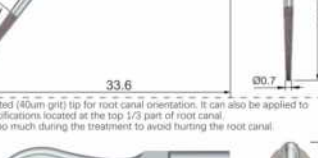
| Model       |                                                                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P50L</b> | Titanium left curved tip for exploring subgingival calculus, subgingival scaling and root planning.<br>    |
| <b>P50R</b> | Titanium right curved tip for exploring subgingival calculus, subgingival scaling and root planning.<br>   |
| <b>P52</b>  | Applicable for all buccal and lingual area.<br>                                                            |
| <b>P53L</b> | Titanium left curved tip for exploring subgingival calculus, subgingival scaling and root planning.<br>    |
| <b>P53R</b> | Titanium right curved tip for exploring subgingival calculus, subgingival scaling and root planning.<br> |

Dimension Unit: mm

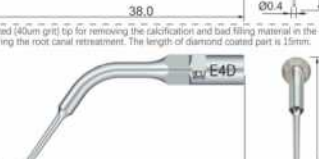
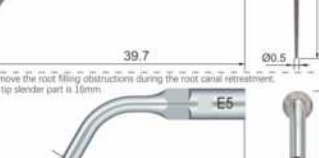
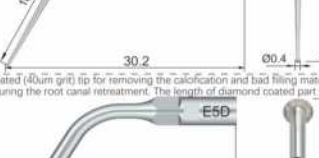
| Model      |                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P56</b> | Applicable for all buccal and lingual area.<br>                   |
| <b>P59</b> | Applicable for all buccal and lingual area.<br>                   |
| <b>P90</b> | Applicable for all buccal and lingual area of dental implant.<br> |

## For EMS®

## Endodontics

| Model      |                                                                                                                                                                                                                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E1</b>  | 120° file holder used to hold the file diameter Ø0.7mm or Ø0.8mm. Recommended for irrigating of root canal, usually used for anterior teeth.<br>                                                                                       |
| <b>E2</b>  | 95° file holder used to hold the file diameter Ø0.7mm or Ø0.8mm. Recommended for irrigating of root canal, usually used for molar teeth.<br>                                                                                           |
| <b>E3</b>  | Applied to melt gutta-percha. Immerse the tip in gutta-percha before inserting it in the canal. Slightly press the tip against the cone of gutta-percha and activate the scaler to condense until the canal is filled.<br>             |
| <b>E3D</b> | Diamond coated (40um grit) tip for root canal enlarging and access to the broken file in root canal. Don't touch the broken file when enlarging the root canal in case putting it deeper in the canal.<br>                             |
| <b>P4D</b> | Diamond coated (40um grit) tip for root canal orientation. It can also be applied to removing calcifications located at the top 1/3 part of root canal. Don't press too much during the treatment to avoid hurting the root canal.<br> |

Dimension Unit: mm

| Model      |                                                                                                                                                                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E4</b>  | Applied to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is 22mm.<br>                                                             |
| <b>E4D</b> | Diamond coated (40um grit) tip for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of diamond coated part is 15mm.<br> |
| <b>E5</b>  | Applied to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is 15mm.<br>                                                             |
| <b>E5D</b> | Diamond coated (40um grit) tip for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of diamond coated part is 10mm.<br> |

## For EMS® Endodontics

| Model      | Dimension Unit: mm                                                                                                                                                                          |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E6</b>  | Titanium tip applied to remove broken file in deep root canal.<br>30.5<br>25                                                                                                                |
| <b>E7</b>  | Titanium tip applied to remove broken file in top 1/3 part of root canal.<br>28.8<br>20.7                                                                                                   |
| <b>E8</b>  | Applied to hold different types of dental bur to realize a variety of treatment on teeth. Usually used for anterior teeth. Special bur used for dental implant is applicable.<br>26.0<br>12 |
| <b>E9</b>  | Applied to hold different types of dental bur to realize a variety of treatment on teeth. Special bur used for dental implant is applicable.<br>29.1<br>8.5                                 |
| <b>E10</b> | Applied to polish root canal in the retrograde preparation of root canal. The length of tip slender part is 4.5mm.<br>30.8<br>13.9<br>Ø0.5                                                  |

| Model       | Dimension Unit: mm                                                                                                                                                                                                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E10D</b> | Diamond coated (40um grit) instrument for highly efficient root planing in the retrograde preparation of root canal. The length of the diamond coated part is 3.3mm.<br>31.7<br>13.9<br>Ø0.6                                                                                       |
| <b>E11</b>  | Applied to polish root canal in the retrograde preparation of root canal. The length of tip slender part is 3.5mm.<br>32.4<br>13.7<br>Ø0.5                                                                                                                                         |
| <b>E11D</b> | Diamond coated (40um grit) instrument for highly efficient root planing in the retrograde preparation of root canal. The length of the diamond coated part is 2.2mm.<br>32.8<br>13.7<br>Ø0.6                                                                                       |
| <b>E12D</b> | Diamond coated (90um grit) tip for removing calcification and bad filling material of pulp cavity, exposing the root canal orifice.<br>27.9<br>18.9<br>Ø1.1                                                                                                                        |
| <b>E14</b>  | Applied to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is 22mm. With irrigation To avoid push the broken file deeper into the root canal, don't use pressure to the tip in the axial direction.<br>38.0<br>25.5<br>Ø0.4 |

## For EMS® Endodontics

| Model       | Dimension Unit: mm                                                                                                                                                                                                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E14D</b> | Diamond coated (40um grit) tip for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of diamond coated part is 15mm. With irrigation.<br>39.7<br>25.5<br>Ø0.5                                                    |
| <b>E15</b>  | Applied to remove the root filling obstructions during the root canal retreatment. The length of tip slender part is 16mm. With irrigation To avoid push the broken file deeper into the root canal, don't use pressure to the tip in the axial direction.<br>30.2<br>23.2<br>Ø0.4 |
| <b>E15D</b> | Diamond coated (40um grit) tip for removing the calcification and bad filling material in the root canal during the root canal retreatment. The length of diamond coated part is 10mm. With water irrigation.<br>30.7<br>23.2<br>Ø0.5                                              |
| <b>E51</b>  | 120° angle holder. Swishing anterior teeth coordinated with washed file after root canal preparation, used in E mode.<br>22.8<br>12.9                                                                                                                                              |

| Model      | Dimension Unit: mm                                                                                                                    |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>E52</b> | 95° angle holder. Swishing posterior teeth coordinated with washed file after root canal preparation, used in E mode.<br>19.4<br>15.0 |
| <b>E60</b> | All-in-one endo irrigation file, with smooth surface.<br>30.6<br>21.3                                                                 |
| <b>E62</b> | All-in-one endo irrigation file, with slight cutting function.<br>30.6<br>21.3                                                        |



## For EMS® Cavity Preparation

| Model | Description                                                                                                                                              | Diagram |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SB1   | Diamond coated (85um) tip for removing caries on teeth neck and occlusal surface of teeth. Place the tip on the pit and move slowly with light pressure. |         |
| SB2   | Diamond coated (85um) tip for removing caries on teeth neck and occlusal surface of teeth.                                                               |         |
| SB3   | Diamond coated (85um) tip for removing caries on distal surface of the adjacent teeth.                                                                   |         |
| SBL   | Left curved diamond coated (85um) tip for removing caries, it will not hurt the adjacent teeth from right to left 45 degree.                             |         |
| SBR   | Right curved diamond coated (85um) tip for removing caries, it will not hurt the adjacent teeth from right to left 45 degree.                            |         |

## Ti-Ni ALLOY ENDO FILE



15# 20# 25# 30# 35# 40#

Titanium - Nickel alloy  
LENGTH : 32.5mm±0.5mm  
SHANK OD : Φ0.68mm~0.71mm

### Application of the Scaler Tip

| Compatible With                                                          | Application                      | Tip Model                                                                                                                                                                               |
|--------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMS® / Woodpecker® / Piezo Ultrasonic Scaler<br>JinDELL® AirSonic Scaler | Supragingival scaling            | G1,G2,G3,G4,G5,G6,G7,G8,G9,G10,G12,G20,G21,G28                                                                                                                                          |
|                                                                          | Subgingival scaling              | P1,P2,P2L,P2H,P2R,P3,P3L,P3R,P3D,P4,P5,P6,P7,P8,P10,P11,P12,P14L,P14R,P18,P20,P20L,P20R,P21L,P21R,P22L,P22R,P50L,P50R,P52,P53L,P53R,P56,P59,P90                                         |
|                                                                          | Endodontics                      | E1,E2,E3,E30,P40,E4,E40,E5,E50,E6,E7,E8,E9,E10,E100,E11,E110,E120,E14,E140,E15,E150,E51,E52,E60,E62                                                                                     |
|                                                                          | Cavity preparation               | SBL1,SBL2,SBL3,SBL4,SBL5,G30,G31,G32,G33                                                                                                                                                |
| Acteon® Satelec / NSK® Ultrasonic / DTE                                  | Supragingival scaling            | G01,G02,G03,G04,G05,G06,G07,G08,G09,G10,G12,G20,G21,G28                                                                                                                                 |
|                                                                          | Subgingival scaling              | P01,P02,P02L,P02R,P03,P03L,P03R,P03D,P04,P05,P06,P07,P08,P010,P011,P012,P014L,P014R,P018,P019,P020,P020L,P020R,P021,P021L,P021R,P022L,P022R,P050L,P050R,P052,P053L,P053R,P056,P059,P090 |
|                                                                          | Endodontics                      | E01,E02,E03,E030,P040,E04,E040,E05,E050,E06,E07,E08,E09,E010,E0100,E011,E0110,E0120,E014,E0140,E015,E0150,E051,E052,E060,E062                                                           |
|                                                                          | Cavity preparation               | SBL01,SBL02,SBL03,SBL04,SBL05,G030,G031,G032,G033                                                                                                                                       |
| Sirona® Air Scaler                                                       | Supragingival scaling            | G51,G52,G53,G54,G55,G56,G57,G58                                                                                                                                                         |
|                                                                          | Subgingival scaling              | P51,P52,P53,P54                                                                                                                                                                         |
|                                                                          | Endodontics                      | E51,E52,E53,E530,E54,E540,E55,E550,P540,E58,E5100,E511,E5110,E514,E515                                                                                                                  |
|                                                                          | Cavity preparation               | SBS1,SBS2,SBS3,SBS4,SBS5                                                                                                                                                                |
| KaVo® / NSK Air Scaler                                                   | Compatible with SonicFlex series | GK1,GK2,GK3,GK4,GK5,GK6,GK7,GK20,GK21                                                                                                                                                   |
|                                                                          | Compatible with SonaSoft series  | GCL,GCC,PC1                                                                                                                                                                             |

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Dimension Unit: mm

## For KaVo® Air Scaler Scaling

| Model | Description                                                                                  | Diagram |
|-------|----------------------------------------------------------------------------------------------|---------|
| GK1   | Applied to removing supragingival deposits in all quadrants.                                 |         |
| GK2   | Applied to removing supragingival deposits in all quadrants.                                 |         |
| GK3   | Applied to removing supragingival calculus, interdental calculus and calculus at teeth neck. |         |
| GK4   | Applied to removing supragingival calculus, including interproximal and sulcus areas.        |         |
| GK5   | Applied to removing subgingival calculus.                                                    |         |
| GK6   | Left curved tip for removing subgingival calculus.                                           |         |

## Scaling

| Model | Description                                                                                                                                                        | Diagram |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| GK7   | Right curved tip for removing subgingival calculus.                                                                                                                |         |
| GK20  | Diamond coated (50um grit) tip for dentin abrading. Applied to supragingival shoulder preparation after using the dental bur for subgingival shoulder preparation. |         |
| GK21  | Diamond coated (120um grit) tip for dentin abrading. Applied to polish prepared supragingival and subgingival shoulder.                                            |         |
| GC1   | Applied to removing supragingival calculus in all quadrants.                                                                                                       |         |
| GC2   | Applied to removing supragingival calculus, interdental calculus and calculus at the teeth neck.                                                                   |         |

## Periodontics

| Model | Description                                                                            | Diagram |
|-------|----------------------------------------------------------------------------------------|---------|
| PC1   | Applied to removing subgingival calculus, including the interproximal and sulcus area. |         |

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