

Scaler Tips Instructions for Use

Version 6 Apr 2021

Product Specification.

Materials.

Scaler tips are manufactured from surgical stainless steel, titanium and PEEK. All materials are biocompatible.

Tips are listed below; details can be found in Xpedent Tip Book and at www.xpedent.com

EMS	G1, G2, G3, G4, G5, G6, P1, P2L, P2LD, P2R, P2RD, P3, P3D, P4, P4D, P5, P6L, P6R, E1, E2, E3, E3D, E4, E4D, E5, E5D, E8, E9, E10, E10D, E11, E11D, E14, E14D, E15, E15D, G7, G8, SB1, SB2, SB3, SBL, SBR, eICP, eICP SET, ICPpeek, eA, eP, ePS, ePL3, TWT EMS eA, TWT EMS eP, TWT EMS ePS, TWT EMS ePL3, P50L, P50R, P52, P53L, P53R, P54L, P54R, P59, P56, E16, SB61, SB62, SB63, SB64, SB65
SATELEC	GD1, GD2, GD3, GD4, GD5, GD6, PD1, PD2L, PD2LD, PD2R, PD2RD, PD3, PD3D, PD4, PD4D, PD6L, PD6R, ED1, ED2, ED3, ED3D, ED4, ED4D, ED5, ED5D, ED8, ED9, ED10, ED10D, ED11, ED11D, ED14, ED14D, ED15, ED15D, GD7, SBD1, SBD2, SBD3, SBDL, SBDR, sICP, sICP SET, ICPpeek, s#1, s#2, s1S, s10X, s10P, s10Z, sH3, sET40D, sH4L, sH4R, sTK1L, sTK1S, sTK2L, sTK2R, sET40, GD8, s#3
NSK	GN1, GN2, GN3, GN4, GN5, GN6, PN1, PN2L, PN2R, PN3, PN4, EN1, EN2, EN3, EN3D, EN4, EN4D, EN5, EN5D, EN8, EN9, EN10, EN10D, EN11, EN11D, GN7, SBN1, SBN2, SBN3, SBNL, SBNR, nICP SET, ICPpeek, nS1, nS2, nS3, NK4, NK5, NK6, NK7, nSICP SET, GN8, PN3D, PN4D, EN14, EN15, EN14D, EN15D
KAVO	k#5, k#6, k#7, k#8, k#60, k#61, k#62, GK2, GK5, GK6, GK7, EK8, kICP SET, ICPpeek, k#9, k#10, k#11, k5A, k6A, k7A, k8A, k60A, k61A, k62A, kICPA SET, ICPpeek, k201, k202, k203, GK1, GK3, GK4, GK5A
SIRONA	GS1, GS2, GS3, GS4, GS5, PS1, PS3, PS4, ES1, ES2, ES4, GS7, sirICP SET, ICPpeek, sr1L, sr2L, sr3L, sr4L, srPE1, srPE2, srPE3, GS6, PS3D, PS4D, PS2L, PS2R, ES3, ES4D, ES5, ES5D
MECTRON	GM1, GM3, GM4, GM5, GM6, PM1, PM3, PM4
DELIDENT	118201, 118202, 118203, 118204
AMDENT	a#37, a#38, a#39, A1, A2
MECTRON Surgery	US1, US1L, US1R, US2, US2-2, US2B, US3, US4, US6, OT4, OT5, OT7, OT7S-4, OT7-20, OP6, OP7, UL1, UL2, UL3, UL4, UL5, UI1, UI2, UI7, UI8, UI9, UI9B, IM1, IM2A, IM2P, IM3A, IM3P, IM4A, IM4P, IP2-3, IP3-4, UE1, UE2, UE3, UE4, mICP SET, ICPpeek, EX1, EX2, EX3, XM-NINJA, UC1, UP1, UP2, UP3, UP4, UP5, UP6, UP7, US5, US1(B), US1L(B), US1R(B), US2(B), IM2.8A, IM2.8P, IM3.4A, IM3.4P, XM-E9, UI7(B)
SATELEC-Piezo 1	BS1, BS2L, BS2R, BS4, BS5, BS6, XS-IM1, XS-IM2A, XS-IM3A, SL1, SL2, SL3, SL4, SL5, LC1, LC1/90, LC2, LC2L, LC2R, Pirahna, NINJA, XS-IM2P, XS-US2, XS-US6, XS-US6, XS-OT7S-4
SATELEC-Piezo 2	V-BS1, V-BS2L, V-BS2R, V-BS4, V-BS5, V-BS6, V-IM1, V-IM2A, V-IM3A V-SL1, V-SL2, V-SL3, V-SL4, V-SL5, V-LC1, V-LC1/90, V-LC2, V-LC2L, V-LC2R, V-Pirahna, V-BS6F, V-US6, V-OT7S-4, V-IM2P
EMS Surgery	E-BS1, E-BS2L, E-BS2R, E-BS4, E-BS5, E-BS6, E-BS6F, E-SL1, E-SL2, E-SL3, E-SL4, E-SL5, E-LC1, E-LC1/90, E-LC2, E-LC2L, E-LC2R, E-Pirahna, E-OT7S-4

Product Overview.

Scaler tips work with ultrasonic scaler machines. The ultrasonic energy is created by the scaler machine and converted into vibrations by the handpiece; these vibrations are then focused and applied to the area to be treated by the Scaler Tip. Ultrasonic Scaler Machines and Tips are only to be used by qualified dental professionals.

Indications for Use.

Tips are divided into the following categories:

General (scaling-prophylaxis)

Periodontal

Endodontic

Prosthesis

Implantation

Sinus Lifting

Extraction

Cutting

General (Scaling –prophylaxis)

These are used for the removal of supra-gingival stains and deposits. The power setting used should be the lowest effective power according to the instructions of the scaler machine.

Periodontal

These are used for sub-gingival work. The power settings will depend upon the tip used and the operation to be carried out; in general, thinner tips require lower power.

Endodontic

These are used for endodontic treatments and are all longer, thinner tips. Endo- use will either have a special power setting or require a low power to be selected.

Prosthesis

The removal of crowns or similar prosthetics may require a higher power setting.

Implantation

Used for preparation and optimization of implant site.

Sinus Lifting

Used for preparation, separation and lifting of the sinus membrane.

Extraction

Used for root osteoplasty.







Bone Cutting

Used for root preparation, chip harvesting, osteotomy and osteoplasty.

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Marking:

	Trade mark		CE mark
	MANUFACTURER		European Representative
	134°C Maximum autoclave temperature		Dispose of through designated collection facility (DCF)

General Instructions For Use.

- 1) **Contraindications.** Follow scaler machine instructions for contraindications.
- 2) **Precautions.** Follow scaler machine instruction for precautions.
- 3) **Scaler machine's instructions.** Please read and follow your scaler machine's instructions.
- 4) **Potential Adverse Side Effects.** Follow your scaler machine's instructions.
- 5) **Cleaning and sterilization.**
Ultrasonic tips must be sterilized before first use and after each use (they are not delivered sterile).

Cleaning

The removal of organic deposits is very important; immediately after use put into a 75% alcohol cleaning solution. After that use an ultrasonic bath with a low-foaming detergent. Alternatively, you can clean them in warm water with a low-foaming detergent and an autoclavable brush.

Warning

Use only chemical disinfectants that are chlorine free and pH neutral to avoid damage to the ultrasonic tips

After Cleaning

Rinse the cleaned tips thoroughly in warm water to remove all chemicals and let them dry completely.. Pack them in suitable packaging, bags, trays or cassettes. Check them with spore test sets. Biological monitoring devices should be used at least once a week. In addition, every time if new packaging, new staff, new procedures, new equipment or repaired equipment is used, a biological monitoring should be added to check if these changes are still effective.

Warning

Do not use closed containers during sterilization with steam or ethylene oxide. The cleaning and Disinfecting device must be approved by its manufacturer for cleaning and disinfection be released by dental instruments and EN ISO 15883-1.

Sterilize with ethylene oxide

Put the dried packaged materials in the unit and work according to the manufacturer's instructions.

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Sterilize with steam

Place the dried wrapped tip in an autoclave. Recommended settings are 134 degrees for 18 minutes.

The scaling tip has no sterilization cycle limit, but after the tip is worn exceeding 2mm, the scaling tip needs to be replaced.

- 6) **Tip Selection.** Standard tips are best for medium to heavy deposits. Universal tips are designed for use in pockets less than 4mm.
- 7) **Tip Attachment.** Tips should be loaded onto the handpiece using the appropriate Torque Wrench.
- 8) **Power Setting.** When the scaler tip is used with the handpiece for the first time, set the scaler machine to the minimum power setting, and then adjust to the correct power, according to the machine's instructions. The use of excessive power may cause patient discomfort and may cause micro fractures in the tip;
- 9) **Cooling.** In order to cool the scaler tip in use, the power and then the water flow need to be set, follow machine instructions for this;
- 10) **Tip Modification.** DO NOT modify, sharpen or bend the tip in any way; this will result in incorrect ultrasonics and, will damage (or possibly break) the tip and the scaler machine.
- 11) **Damaged Tips.** If a tip is bent out of shape, if a tip has been dropped, or if a change of power is experienced during use, discard and replace.
- 12) **Storage Conditions.** Scaler tips should be autoclaved after use. Scaler tips should be stored in a dry environment with humidity lower than 70%.
- 13) **Tip Self Life.** Scaler tips effectiveness is reduced by wear; once the tip has worn by 2mm, it will no longer be effective. As a guide, basic scaling tips should last for about 100 uses, with Endo tips needing much more frequent change; thinner tips have shorter life. Some of the specialist tips, such as those with diamond or Titanium Nitride coats will be replaced after just 3 or 4 uses. As a general rule, tips need to be replaced when they have worn according to the wear guide, those with no wear guide should be replaced as soon as the tips shows visible signs of wear. In all cased tips should be replaced as a maximum 2 months after first use.

Name of the manufacturer: Guilin Yikeshi Medical Instrument Co. Ltd

Address: D08 High Tech Industrial Park, Chaoyang Rd, Qixing, Guilin, Guangxi, China 541004

Service phone: +41786405578

Email: Andreas@xpediency.com

Website: www.xpedent.com



Jonathan Sims

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