

K T NICA STOMATOLOGICZNA

L20-1L

L20 K tnica stomatologiczna**INSTRUKCJA U YTKOWNIKA**

Dla bezpieczeństwa własnego i pacjentów, przed użyciem należy zapoznać się z instrukcją. Instrukcję należy zachować do ponownego wykorzystania.

Niniejsza instrukcja została przygotowana przez Precision Plus.

Precision Plus nie gwarantuje jej treści i zastrzega sobie prawo do zmiany w dowolnym momencie bez wcześniejszego powiadomienia. Zmiany zostaną opublikowane w nowych wydaniach niniejszej instrukcji.

L20 Rev. V2.1 © Precision Plus

1. Wskazania u ycia

- Kątnica jest urządzeniem przeznaczonym do leczenia i profilaktyki stomatologicznej.
- Kątnica może być używana wyłącznie przez przeszkolony personel

2. rodki ostro no ci dotycz ce obsłg

- Przed użyciem należy zapoznać się ze wszystkimi środkami ostrożności.
- Urządzenia należy używać tylko zgodnie z jego przeznaczeniem.
- Instrukcje bezpieczeństwa są sporządzone w celu zapobiegania ryzyka zranienia użytkownika lub uszkodzenia urządzenia.



OSTRZE ENIE: Wskazuje zagrożenia mogące skutkować poważnym zranieniem użytkownika/uszkodzeniem urządzenia w przypadku nieprzestrzegania instrukcji



UWAGA: Wskazuje zagrożenia mogące skutkować łagodnym lub umiarkowanym zranieniem użytkownika/uszkodzeniem urządzenia w przypadku nieprzestrzegania instrukcji

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3. Przeciwwskazania

Należy stosować ostrożnie u dzieci, kobiet w ciąży, pacjentów z hemofilią i chorobami układu krążenia.

4. Działania niepo dane

- Patients may feel tense, uncomfortable or experience pain during use of the device.
- Patients hearing may be affected during use of the device.



WARNING

- Immediately after each and every treatment, the handpiece should be inspected, cleaned, lubricated and sterilized. Failure to correctly maintain the handpiece may lead to overheating, injury to user/patient or damage to handpiece.
- Debris inside the gear mechanism can lead to overheating and burn injuries. Do not allow foreign materials into the gear mechanism or chuck.

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CAUTION

- Users are required to protect themselves.
- Users are responsible for correct and intended using, regular maintenance and continual inspection of the handpiece.
- Avoid impact or contamination of handpiece.
- Do not disassemble or alter the handpiece except as recommended in our user instructions.
- Correct eye, face and personal protection must be used by operator, assisting staff and patient whilst handpiece is being used.
- If the handpiece ceases operating abnormally, immediately stop use and contact your authorized Precision Plus dealer.
- Handpiece is supplied in a non-sterile state and must be autoclaved before use.
- Handpiece should be carefully tested for vibration, noise or overheating prior to use, if it has not been used for a long time.

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- Always inspect bur to confirm it is free of debris before inserting into handpiece. Debris inside chuck may cause rotation slip or allow the bur to become disengaged during use.
- Do not exceed the maximum length or speed of bur for the handpiece as recommend by Precision Plus. See “5. Specifications” of this manual for information on correct bur choice.
- Do not apply excess pressure to the bur during use, this can lead to bur bending or breaking causing injury to user/patient or the handpiece.
- Do not use burs that are bent, rusted, worn, cracked, deformed or have non ISO standard conforming shanks, Burs with these issues may disengage or break during use.
- Always engage bur correctly into handpiece head. Failure to correctly insert burs may cause damage to bearings leading to injury or premature failure of handpiece.
- Always follow bur manufacturer instructions.
- Before use always inspect handpiece for excessive vibration, noise or overheating. If there are abnormalities, stop using and contact authorized Precision Plus dealer.

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5. Specifications

Model	L20-1L
Chuck Type	Latch
Gear Ratio	1:1
Max. Speed (r.p.m.)	24,000
Motion Type	360°
Bur Type	ISO1797 Type I 2.35 mm
Max. Working Part Diameter	Ø 4 mm
Max. Bur Length	22.6 mm
Type of Connector	ISO 3964

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6. Connection & Disconnection of Handpieces to Motor

6.1 Connection

1. Connect handpiece to motor until it locks into place. (Fig.1)
2. Pull on handpiece to make sure it is securely attached to motor.

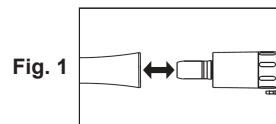


Fig. 1

6.2 Disconnection

1. Hold motor and handpiece separately and pull the handpiece off in an axial direction using a slight rotation (Fig.1).



CAUTION:

- Motor must have completely stopped rotating before connecting/disconnecting.
- Connect only to E type motors (ISO 3964 (EN ISO 3964)).
- Do not exceed the Max Rotational Speed as shown in “5.specifications”.

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7. Inserting & Removing the Bur

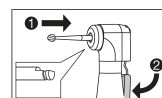
7.1 Inserting the Bur

1. Turn the Locking lever to open the chuck. (Fig. 2)
2. Insert the bur into the chuck until the bur fully engages. Turn the locking lever back into a closed position.(Fig. 3)
3. Check bur is correctly engaged by gently pulling on the bur.

Fig. 2



Fig. 3



7.2 Removing of Bur

1. Turn the locking lever to open chuck (Fig. 2) and carefully pull the bur out.



WARNING: Remove the bur only after the handpiece has completely stopped rotating.

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8. Test prior to Use

Follow the check procedure below before use. If any abnormalities are found, see Troubleshooting chart or contact your authorized Precision Plus dealer.

1. Insert the bur. (Refer to "6. Inserting & Removing of Bur")
2. Rotate the handpiece for about 20 seconds at the Max. Rotation speed of the attached motor. During rotation, check for abnormalities such as abnormal rotation, vibration, noise.
3. After the handpiece rotation has completely stopped, touch the handpiece head to confirm the head is not heating abnormally(Fig.4).

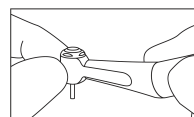




Fig. 4

 **WARNING:** To avoid injury, keep your hands away from the bur during rotation.

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9. Post-use Maintenance

 **CAUTION:** Do not use the following fluids to wipe, immerse or clean the handpiece: strong/highly acidic water, strong acid/alkaline chemicals, chlorine containing solutions or solvents such as benzene or thinner. Do not use ultrasonic bath during the cleaning process.

9.1 Preparation

1. Use correct eye, face and personal protection to avoid possible infection.
2. Remove the bur.
3. Disconnect handpiece from the motor.

9.2 Cleaning

1. Remove dirt and debris from handpiece using a soft bristle brush. Do not use a wire brush.

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2. Automated Cleaning and Disinfection: Use a thermo-disinfector according to ISO 15883. For programme settings as well as cleansers and disinfectants to be used, please refer to the user manual of the thermo- disinfector.
3. Automated Drying: The drying procedure is normally part of the cleaning programme of the thermo-disinfector. Refer to the user manual of the thermo-disinfector.

9.3 Lubricating

Lubricant must be applied after use and before autoclaving.

1. Attach the Spray Nozzle onto the Spray Port of the can. (not included with this device)
2. Insert the Spray Nozzle into the rear of the handpiece. Hold the handpiece firmly and spray lubricant for 2-3 seconds. Apply lubricant until it has been expelled from handpiece head for 2 seconds (Fig. 5).

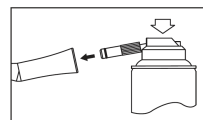


Fig. 5

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 **CAUTION**

- Always follow lubricant manufacturers instructions.
- Always hold lubricant can in an upright position.
- Hold handpiece firmly to avoid it being dislodged due to lubricant spray pressure.

9.4 Sterilization

Handpiece should be sterilized after each and every treatment.

1. Handpiece should be lubricated as per user manual.
2. Insert into an autoclave pouch and seal pouch correctly.
3. Sterilize at 134°C(273°F) for 5 mins.
4. Handpiece should be stored in a sealed pouch in a dry place out of direct sunlight until required for use.

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 **CAUTION**

- Handpiece must be cleaned and lubricated before sterilization.
- Any remaining blood on outer surface may become clotted and cause operational failure.
- Do not overheat or cool handpiece too quickly. Rapid change in temperature may cause damage to the product.
- Do not use autoclaves exceeding 137°C during sterilization.
- Sterilize according to EN 13060/EN 285. Always follow autoclave manufacturer's instructions for use.
- Reprocessed products should be stored, protected from dust in a dry, dark and cool place with minimum exposure to germs.
- Autoclave sterilization is the only agreed method to correctly sterilize this handpiece. The validity of other sterilization methods is not confirmed or guaranteed.

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10. Regular Maintenance Checks






Regular maintenance should be performed every 3 months as per the chart below. If any abnormalities are found, immediately contact your authorized Precision Plus dealer.

Points to check	Process
Head cap is loose	Tighten firmly using the correct head cap wrench
Rotation	Connect to motor and start, checking for abnormal rotation, noise, overheating and vibration.







* See trouble shooting chart if problems are discovered.

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11. Symbol

	Sterilizable in a steam sterilizer (autoclave) at the temperature 134°C(273°F)
	The device has not been subjected to a sterilization process
	Medical Device
	Consult instructions for use
	Washer-disinfector for thermal disinfection

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	Serial number
	Conforms to CE European Directive of "Medical device directive 93/42/EEC"
	Authorized representative in the European Community.
	Batch code
	Date of manufacture
	Manufacturer

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12. Troubleshooting

Malfunction	Cause	Solution
High pitched or unusual noise, reduced cutting power or failure to rotate	Debris in handpiece or gear mechanism	Clean and lubricate handpiece
Reduction in speed	Motor problem	Check motor speed
Handpiece will not engage bur or hold bur in chuck	Damaged chuck	Send device to Precision Plus authorized repairer
Abnormal bur rotation or failure to cut	Bearing damage	Replace damaged components

If the handpiece will not work correctly after following above troubleshooting solutions, please contact Precision Plus or an authorized maintenance centre.

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13. Warranty

Precision Plus products are warranted against manufacturing and material defects. Precision Plus reserves the right to analyze and determine the cause of any problem. The warranty is voided should the product not be used in accordance to the user manual, not for its intended purpose, has not been repaired by Precision Plus or an authorized Precision Plus repairer, or has non genuine Precision Plus parts installed. Replacement parts will be made available for seven years after the date of discontinuation of the model.

14. Disposal of Product

In order to avoid the health risks to operators handling the disposal of medical equipment, as well as the risks of environment contamination caused thereof, a surgeon or a dentist is required to confirm the equipment is sterile. Ask specialist firms who are licensed to dispose of specially controlled industrial wastes, to dispose of the product for you. Always follow your country specific laws, directives, standards and guidelines for disposal of medical devices.

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