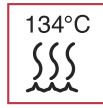


**GENERAL  
CATALOGUE  
2021-2022**

# Symbols



**3-hole connection**



**Instrument autoclavable up to 134°C (273°F)**



**4-hole connection**



**Handpiece with highly-reliable ceramic ball bearings**



**5-hole connection**



**Push-button bur change**



**Electrified 4-hole connection**



**Instrument with light system**



**Electrified 8-pin connection**



**Instrument with high-performance LED device**



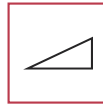
**Rotating connection**



**Handpiece with piezo-electric disks**



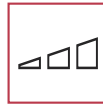
**Quick-connect GYROFLEX® connection (KaVo MULTiflex® - compatible)**



**Handpiece with Speed or Power adjustment**



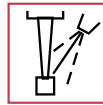
**Connection for NSK PTL-CL-LED/4HV/III rapid couplings**



**Speed or Power adjustable in steps**



**Connection for Sirona R/F rapid coupling**




**Adjustable cooling spray**




**Connection for Bien-Air Unifix® rapid coupling**




**Instrument thermo-desinfectable**

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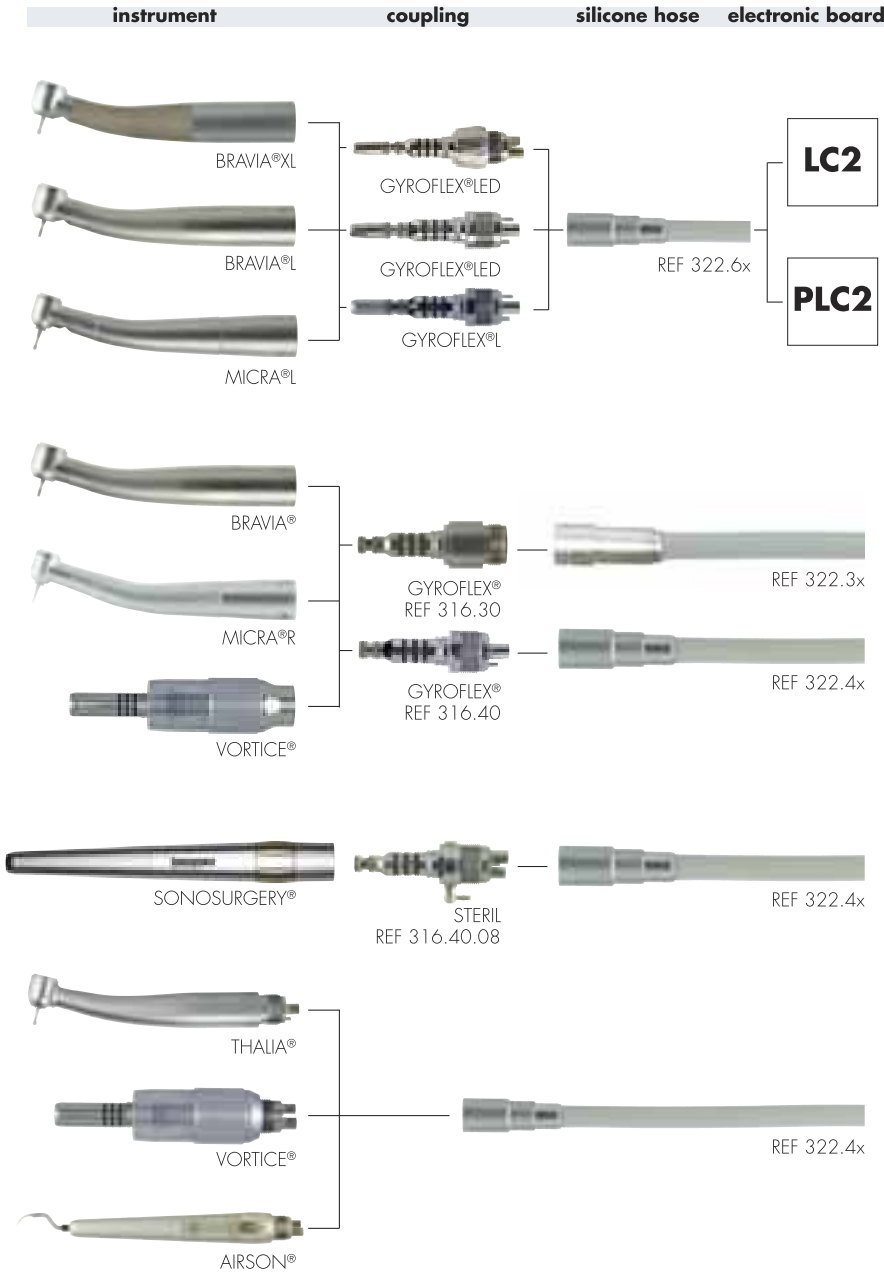
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# Connections





**instrument**

**silicone hose**

**electronic board**



DEFINITIVE®



DEFINITIVE®LED



REF 322.8x



REF 322.8x.01

**CONV24**

**BMC40**

**DUOPAD**



TITANUS®E/S



REF 330.1x

**USC60**

**DUOPAD**



NUCLEUS®LED



REF 324.9x.01

**BMC60**

**CONV24**



MOON



REF 330.2x

**24 V**

# Our mission

We have been manufacturing dynamic instruments for the dental sector for over 50 years.

To design and make simple and reliable high-precision instruments has been our mission since the first and historic CA72 high-speed air-bearing turbine. Since then, many other products have been developed and engineered, always keeping the same initial idea in mind.

Our commitment to development and production is constant and aimed at offering a significant contribution **to both the professional and the industry of dental units**, in which our products are widely used.

# The design

Mechanics and electronics comprise a vast set of subjects, many of which require interdisciplinary skills. Pneumatics, fluid dynamics, thermotechnics, metallurgy, control electronics, electromagnetism, signal processing etc ... are fundamental fields for our reality.

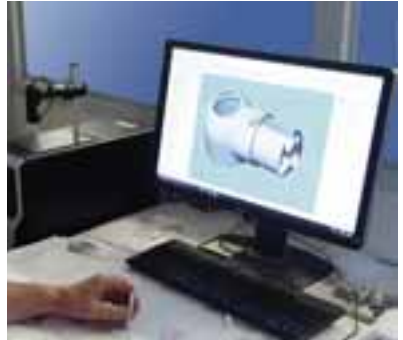
**For this reason, the company has always designed and developed all products internally.**

The R&D division, therefore, has highly skilled people with the necessary proficiency to design and develop complex parts for various purposes.

The projects are developed with 3D CAD and the first prototypes are produced by CAM and special machines.

For each project, we scrupulously carry out the risk assessment in order to guarantee absolute safety of the products put on the market.

The prototypes then undergo all the required tests (including a specific reliability test to estimate its useful life) and only after all the tests have given positive results can the production of the first batch begin!



# Production and quality controls

Our philosophy is to combine industrial production with the same care as an artisan reality, making constant investments in more efficient production technologies that are compatible with the environment and safety.



Starting from the bars of raw materials (mainly steel, brass and titanium of European origin), we use the latest-generation numerically controlled machines that produce the individual components with extreme precision, even 24 hours a day. All the machines are networked and managed by a MES control software, according to the criteria of Industry 4.0

**Accurate quality controls are carried out throughout the production process**, starting from the raw materials up to the final tests, while still checking every single component produced on the machines. We use sophisticated measuring instruments both for the control of the mechanical dimensions and for

many other specific characteristics of the components (concentricity, roughness, hardness, etc ...).

Once fully assembled, the 100% of the final product, whether it be a mechanical or electronic medical device, undergoes a particular test carried out by means of suitable automatic laboratory instruments that measure its main characteristics and check that they are within the expected values and tolerances.



# Marketing and technical assistance

We offer a wide range of rotating or vibrating medical devices, sonic and ultrasonic inserts, rapid couplings, control units, silicone hoses, electronic boards and accessories.

Most of our products are standard and described in this general catalogue. We also develop particular product modifications to offer our customers customized solutions for specific needs.

We manage orders of any quantity, always guaranteeing a high-quality standard and fast processing times.

**TKD has always been a member of UNIDI association and nowadays exports its products to over 78 countries throughout the world.**

TKD's goal is to guarantee its customers an excellent service, both in terms of quality and in terms of pre- and post-sales assistance.

In fact, we believe that customer service is a crucial aspect. We listen and interact with the customer, adapting to his needs. Our assistance service therefore provides specialized technical advice, guaranteed by our know-how, with rapid and punctual answers.

# Certification and safety

TKD has been manufacturing according to UNI CEI EN ISO 13485 Standard since 1998: during all design and production phases, from parts manufacture to final assembly, rigorous controls ensure that sold products will prove extremely safe and reliable.



Furthermore, **TKD assures that all its products have reached a quality level meeting the essential requirements dictated by 93/42/EEC and 2007/47/EC Directives** and assures that design, manufacturing and final control are being carried out as indicated by ISO 13485 Standard. All Class-IIa medical devices are being marked with the **CE** symbol.  
0051



IQNet Registration  
N° IT-1224



## ***BRAVIA® XL, BRAVIA® XLN, BRAVIA® XLS & BRAVIA® XLB***

Newly designed ball-bearing turbines, compact and light, with extremely high torque and elegant and ergonomic styling. The turbines are equipped with a highly-efficient solid light conductor and feature extremely high reliability.

Spray: 4-jet diffuser. Rotation speed: 365000 rpm.

Recommended air pressure: 2.8 ± 0.2 bar (40.5 ± 3 psi) for BRAVIA®XL/XLS;

2.5 ± 0.3 bar (36.0 ± 4.5 psi) for BRAVIA®XLN/XLB;

Simple and effective grease lubrication by means of the special LubriONCE® lubricator.

Optional lubrication by means of the SO2000 service oil.

Thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).

The BRAVIA®XL turbine must be used together with the GYROFLEX®LED or MULTIFLEX® rapid couplings.

The BRAVIA®XLN turbine must be used together with the NSK PTL-CL-LED/4HV/III rapid couplings.

The BRAVIA®XLS turbine must be used together with the Sirona® R/F rapid couplings.

The BRAVIA®XLB turbine must be used together with the Bien-Air Unifix® rapid couplings.



**BRAVIA® XL** turbine, with light  
REF 162.02.01



**BRAVIA® XLN** turbine, with light  
REF 162.04.01



**BRAVIA® XLS** turbine, with light  
REF 162.06.01



**BRAVIA® XLB** turbine, with light  
REF 162.08.01





## Turbines

### ***BRAVIA® XL*** Special edition

Special version of the standard turbine with improved and selected high-performance components, which produce the following special features:

- Higher power up to **27 W**
- Advanced spindle with perfectly balanced rotor
- Superior highly reliable ceramic ball-bearings
- Reduced noise level

The BRAVIA®XL turbine must be used together with the GYROFLEX®LED or MULTIflex® rapid couplings.



**BRAVIA® XL** turbine, with light  
**REF 163.02**





# ***BRAVIA® L, BRAVIA® LN, BRAVIA® LS & BRAVIA® LB***

Compact ball-bearing turbines, with extremely high torque and elegant and ergonomic styling.

The turbines are equipped with a highly-efficient solid light conductor.

Spray: 3-jet diffuser.

Rotation speed: 365000 rpm.

Recommended air pressure:  $2.8 \pm 0.2$  bar ( $40.5 \pm 3$  psi) for BRAVIA®L/LS;  
 $2.5 \pm 0.3$  bar ( $36.0 \pm 4.5$  psi) for BRAVIA®LN/LB;

Simple and effective grease lubrication by means of the special LubriONCE® lubricator.

Optional lubrication by means of the SO2000 service oil.

Thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).

The BRAVIA® turbine must be used together with the GYROFLEX® or MULTiflex® rapid couplings.

The BRAVIA®L turbine must be used together with the GYROFLEX®L, GYROFLEX®LED or MULTiflex® rapid couplings.

The BRAVIA®LN turbine must be used together with the NSK PTL-CL-LED/4HV/III rapid couplings.

The BRAVIA®LS turbine must be used together with the Sirona® R/F rapid couplings.

The BRAVIA®LB turbine must be used together with the Bien-Air Unifix® rapid couplings.



**BRAVIA® turbine**  
**REF 162.52**



**BRAVIA®L turbine, with light**  
**REF 162.02**



**BRAVIA®LN turbine, with light**  
**REF 162.04**





**BRAVIA® LS** turbine, with light  
REF 162.06



**BRAVIA® LB** turbine, with light  
REF 162.08



## MICRA® L

Compact ball-bearing turbines with small-size head, elegant and ergonomic styling. Designed to facilitate access to the most hidden places, they are the logical complementary instruments to the normal-size turbines.

The MICRA®L turbine is equipped with a solid light conductor.

Spray: 1-jet diffuser.

Rotation speed: 360000 rpm.

Recommended air pressure:  $2.8 \pm 0.2$  bar ( $40.5 \pm 3$  psi)

Simple and effective grease lubrication by means of the special LubriONCE® lubricator.

Optional lubrication by means of the SO2000 service oil.

Thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).

The MICRA®L turbine must be used together with the GYROFLEX®L, GYROFLEX®LED or MULTiflex® rapid couplings.



**MICRA® L** turbine, with light  
REF 194.02





## THALIA®

Economical and simple ball-bearing turbines, with fixed connection and extremely high-torque.

*Spray:* one-jet diffuser.

*Rotation speed:* 365000 rpm.

*Recommended air pressure:* 2.4 ÷ 2.8 bar (34.8 ÷ 40.5 psi).

Lubrication by means of the SO2000 service oil.

Thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).

Turbines are equipped with a non-return valve for spray water.



**THALIA®** Turbine  
**REF 186.40**



# AIRSON®

Pneumatic scaler, with adjustable operating power by means of a rotating nut.  
 The scaler can be used for prophylaxis procedures employing the supplied inserts.  
 Sonic inserts are compatible with the KaVo® SONICflex®2003L handpiece.  
*Recommended air pressure:* 2.4 ÷ 3.0 bar (34.8 ÷ 43.5 psi).

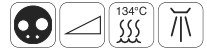
Operating frequency: 5 ÷ 7 KHz.

Lubrication by means of the SO2000 service oil.

Handpiece, wrench and inserts thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).



**AIRSON®** air scaler  
 (complete with 3 inserts and dynamometric wrench)  
**REF 232.40**



**AIRSON®** air scaler  
 (complete with 3 inserts and dynamometric wrench)  
**REF 232.52**



SPF05 Universal

Sonic inserts  
**REF 250.05**



SPF06 Sickle

**REF 250.06**



SPF07 Perio

**REF 250.07**

## VORTICE®

Air micromotors with variable speed, adjustable by means of a rotating ring, in both rotation modes.

Versatile and powerful even at low speeds.

Micromotors have got standard internal spray system to fit any E-type contra-angle or straight handpieces.

*Rotation speed:* 4000 ÷ 20000 rpm.

*Recommended air pressure:* 2.4 ÷ 3.0 bar (34.8 ÷ 43.5 psi).

Lubrication by means of the SO2000 service oil.

Thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).

Micromotors are equipped with a non-return valve for spray water.



**VORTICE®** air micromotor  
**REF 224.40**



**VORTICE®** air micromotor  
**REF 224.52**





## QUARK® CA & QUARK® CAL

New contra-angle and straight handpieces with ergonomic design, available with or without a fibre-optic glass rod.

The reduced weight and its perfectly balanced shape provide good tactile grip whereas the reduced head size facilitates access to the molar area.

Handpieces must be used with standard CA burs (Ø 2.35 mm) and can be connected to any micromotor with internal spray.

The QUARK® CAL handpiece is equipped with a non-return valve for spray water.



**QUARK®CA** contra-angle handpiece, transmission ratio 1:1  
REF 650.00



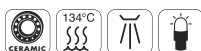
**QUARK®CAL** contra-angle handpiece, transmission ratio 1:1  
REF 652.00



**QUARK®ST** straight handpiece, transmission ratio 1:1  
REF 660.00



**QUARK®STL** straight handpiece, transmission ratio 1:1  
REF 662.00







QUARK CAL

## Rapid Couplings

# *GYROFLEX® , GYROFLEX® L & GYROFLEX® LED*

Rapid couplings for use with 3-hole, 4-hole and 6-pin hoses.

The GYROFLEX® connection allows use of handpieces with 360° free rotation, thereby increasing drilling precision and preventing hose from twisting.

The GYROFLEX®L model, with integrated bulb, provides for turbine illumination.

The GYROFLEX®LED model, with integrated LED, also provides for turbine illumination.

The GYROFLEX®LED model is also available with a nut for cooling spray adjustment.

The GYROFLEX® rapid couplings are fully compatible with the KaVo MULTiflex® ones.

Couplings are equipped with a non-return valve for spray water.



**GYROFLEX®** rapid coupling  
REF 316.30



**GYROFLEX®** rapid coupling  
REF 316.40



**GYROFLEX®L** rapid coupling, with integrated bulb  
REF 316.60



**GYROFLEX®LED** rapid coupling, with integrated LED  
REF 316.62





**GYROFLEX®LED** rapid coupling, with integrated LED and nut  
for cooling spray adjustment  
**REF 316.62.09**



## **SONOSURGERY®**

Pneumatic handpiece, with adjustable operating power by means of a rotating nut, complete with dynamometric wrench.

The handpiece has been especially designed for bone surgery procedures employing the special sonic inserts.

Sonic inserts are compatible with the KaVo® SONICflex®2003L handpiece.

*Recommended air pressure:* 3.2 ÷ 4.0 bar (46.1 ÷ 58.1 psi).

*Operating frequency:* 4500 ÷ 6000 Hz.

Lubrication by means of the SO2000 service oil.

Handpiece, wrench, inserts and coupling thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).



### **SONOSURGERY® AIR POWER** handpiece

(complete with dynamometric wrench)

**REF 234.52**



### **INTRO SET**

Surgery Inserts SBM01, SBM03, SSB02, SSL01



### **SONOSURGERY® AIR POWER** handpiece

(complete with dynamometric wrench + INTRO SET)

**REF 234.52.04**



### **SONOSURGERY® STERIL**

rapid coupling

**REF 316.40.08**



Dynamometric wrench

**REF 104.00**



# Sonic inserts



SBM01 Micro-saw, straight shank

**REF 250.11**



SBM02 Micro-saw orthogonal

**REF 250.12**



SBM03 Micro-saw sagittal

**REF 250.13**



SSB01 With diamond-coated ball, straight shank

**REF 250.21**



SSB02 With diamond-coated ball

**REF 250.22**



SSBF1 With fine-grain diamond-coated ball, straight shank

**REF 250.23**



SSBF2 With fine-grain diamond-coated ball

**REF 250.24**



SSL01 With convex button

**REF 250.31**



SBS01 With edge-cutting button, straight shank

**REF 250.33**



SIS01 Implant site Ø1.7 mm

**REF 250.41**



SIS02 Implant site Ø2.1 mm

**REF 250.42**



SIS03 Implant site Ø2.5 mm

**REF 250.43**



SIS04 Implant site Ø2.9 mm

**REF 250.44**



SIS05 Implant site Ø3.3 mm

**REF 250.45**



SIS06 Implant site Ø3.7 mm

**REF 250.46**



SIS07 Implant site Ø4.0 mm

**REF 250.47**

# *SONOSURGERY® AIR SURGICAL UNIT*

New unit for the easy control of a SONOSURGERY® AIR POWER sonic handpiece.

The unit is completely pneumatic and is equipped with a special pressure bag for liquid irrigation, which is automatically and continuously inflated at a low pressure. The liquid goes to the handpiece through a sterile tubing connected to the SONOSURGERY® STERIL rapid coupling.

A special pneumatic foot pedal allows to turn on or off the handpiece vibrations and the flow of sterile liquid simultaneously. Additionally it allows to progressively modulate the air pressure supply going to the handpiece, so as to avoid a sudden and strong startup of the handpiece.

Both liquid flow and handpiece air pressure supply can be easily adjusted by specific commands on the front panel.

The unit is also provided with a detachable 4-hole silicone hose for the supply of the handpiece.

The unit, in combination with the SONOSURGERY® handpiece and specific inserts, is suitable for general oral surgery: bone block harvesting, cyst excision, preparation of implant sites, extractions of impacted teeth (third molars too), maxillary sinus lift by crestal or lateral access, corticotomy, osteotomy and osteoplasty, etc...



The unit is complete with metallic rod, pressure bag, detachable silicone hose, foot pedal.

**REF 350.00**







# **TITANUS® E & TITANUS® S**

Ultrasonic piezo-electric scaler set, designed according to new sophisticated technologies. The titanium transducer produces high reliability and greater power efficiency.

Once wired to the USC60 electronic control, inserts and handpiece are galvanically insulated (3000 V), thus ensuring absolute patient's safety.

Absolutely linear and longitudinal generated mechanical vibrations.

The DYN0 dynamometric wrench can be used with any TKD, EMS®, Satelec® or NSK inserts.

*Operating frequency: 27 ÷ 32 KHz.*

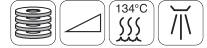
Ultrasonic inserts are compatible with the EMS® or Satelec® scalers.

Handpiece, wrench and inserts thermodesinfectable and autoclavable up to 134 °C / 2 bar (273 °F / 29 psi).





**TITANUS®E** scaler for use with EMS® inserts  
(complete with 1 insert and DYNO wrench)  
**REF 400.00.01**



### SET comprising:

- 1 TITANUS®E scaler (REF 400.00.03) for use with EMS® inserts
- 3 Inserts + 1 DYNO dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 330.13)

**REF 400.9x.03**



**TITANUS®E** scaler with EMS® connection  
(complete with 1 insert and DYNO wrench)  
**REF 410.00.01**



### SET comprising:

- 1 TITANUS®E scaler (REF 410.00.03) for use with EMS® inserts
- 3 Inserts + 1 DYNO dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 332.1x)

**REF 410.9x.03**



AX Universal



BX Spatula



PX Perio

Ultrasonic Inserts

**REF 430.01** (EMS® compatible)

**REF 430.02** (EMS® compatible)

**REF 430.04** (EMS® compatible)

**REF 430.01.KV.0**

(KaVo® compatible)

**REF 430.02.KV.0**

(KaVo® compatible)

**REF 430.04.KV.0**

(KaVo® compatible)



CX Squared Spatula

**REF 430.03** Insert (EMS® compatible)  
**REF 430.03.KV.0** (KaVo® compatible)



PSX Perio Slim

**REF 430.05** Insert (EMS® compatible)  
**REF 430.05.KV.0** (KaVo® compatible)



DX Crowns Removal

**REF 430.07** Insert (EMS® compatible)  
**REF 430.07.KV.0** (KaVo® compatible)



EX Endo (to fit Ø 0.8 mm files)

**REF 430.08** Insert (EMS® compatible)  
**REF 430.08.KV.0** (KaVo® compatible)



EX + PIR Cleaning of Implants and Restorations

**REF 430.09** Insert (EMS® compatible)  
**REF 430.09.KV.0** (KaVo® compatible)



PLX3 Cleaning of periodontal pockets

**REF 430.13** Insert (EMS® compatible)  
**REF 430.13.KV.0** (KaVo® compatible)



PLX1 Periodontal debridement

**REF 430.11** Insert (EMS® compatible)  
**REF 430.11.KV.0** (KaVo® compatible)



PLX2 Periodontal debridement

**REF 430.12** Insert (EMS® compatible)  
**REF 430.12.KV.0** (KaVo® compatible)



PLX4 Periodontal debridement with spherical tip

**REF 430.14**

Insert (EMS® compatible)



PLX5 Periodontal debridement with spherical tip

**REF 430.15**

Insert (EMS® compatible)



**TITANUS®S** scaler for use with Satelec® inserts  
(complete with 1 insert and DYNO wrench)

**REF 450.00.01**



## SET comprising:

- 1 TITANUS®S scaler (REF 450.00.03) for use with Satelec® inserts
- 3 Inserts + 1 DYNO dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 330.13)

**REF 450.9x.03**



**TITANUS®S** scaler with Satelec® connection  
(complete with 1 insert and DYNO wrench)

**REF 460.00.01**



## SET comprising:

- 1 TITANUS®S scaler (REF 460.00.03) for use with Satelec® inserts
- 3 Inserts + 1 DYNO dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 333.1x)

**REF 460.9x.03**

# Scalers



AX-S Universal

Insert (Satelec® compatible)  
**REF 480.01**



BX-S Spatula

Insert (Satelec® compatible)  
**REF 480.02**



PX-S Perio

Insert (Satelec® compatible)  
**REF 480.04**



DYNO dynamometric wrench  
**REF 109.00**



STERIL rapid coupling for  
TITANUS®E scaler

**REF 317.01.08**



STERIL rapid coupling for  
EMS Piezon® scaler

**REF 317.02.08**



STERIL rapid coupling for  
Satelec® Newtron scaler

**REF 317.03.08**

# TITANUS® ELED & TITANUS® SLED

Newly-designed piezoelectric ultrasonic scalers of ergonomic design, with connector integrated in the body, which allows a safe and precise grip.

The scalers are equipped with integrated LED light that ensures natural and bright light on the operating area.

Built according to the most modern technologies, the special titanium transducer ensures high reliability and greater power efficiency, generating absolutely linear and longitudinal vibrations.

Ultrasonic inserts are compatible with the EMS® or Satelec® scalers.

Once wired to the USC60 electronic control, inserts and handpiece are galvanically insulated (3000 V), thus ensuring absolute patient's safety.

The DYN0 dynamometric wrench can be used with any TKD, EMS®, Satelec® or NSK inserts.

*Operating frequency:* 27 ÷ 32 KHz.

Handpiece, wrench and inserts thermodesinfectable and autoclavable up to 134 °C / 2 bar.



**TITANUS® ELED** scaler for use with EMS® inserts  
complete with 1 insert and DYN0 wrench

**(REF 412.00.01)**



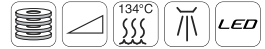
## SET comprising:

- 1 TITANUS® ELED scaler (REF 412.00.03) for use with EMS® inserts
- 3 Inserts + 1 DYN0 dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 334.1x)

**REF 412.9x.03**



**TITANUS® SLED** scaler for use with Satelec® inserts  
(complete with 1 insert and DYNO wrench)  
**REF 462.00.01**



## SET comprising:

- 1 TITANUS®SLED scaler (REF 462.00.03) for use with Satelec® inserts
- 3 Inserts + 1 DYNO dynamometric wrench (REF 109.00)
- 1 USC60 electronic control (REF 387.00)
- 1 Silicone hose (REF 335.1x)

**REF 462.9x.03**





## **DEFINITIVE® & DEFINITIVE® LED**

High-performance brushless electric motors with adjustable speed in both rotation modes. Micromotor has got integrated LED illumination and standard ISO coupling which allows connection to any contra-angle or straight handpiece with fibre optics and internal spray (E-type).

*Rotation speed:* 1000 ÷ 40000 rpm.

Micromotors must be used together with the BMC40 electronic board.

No maintenance is required.

Micromotors are equipped with a non-return O-ring for spray water.



**DEFINITIVE®** electric motor  
REF 600.00



**DEFINITIVE®LED** electric motor with integrated LED  
REF 602.00



### **SET comprising:**

- 1 DEFINITIVE® electric motor (REF 600.00)
- 1 Silicone hose (REF 322.8x)
- 1 BMC40 electronic board (REF 390.00)

**REF 600.9x**

### **SET comprising:**

- 1 DEFINITIVE®LED electric motor (REF 602.00)
- 1 Silicone hose (REF 322.8x.01)
- 1 BMC40 electronic board (REF 390.00)

**REF 602.9x**

A silver cylindrical LED flashlight is shown at an angle, emitting a bright, focused beam of light from its lens. The flashlight has a textured silver finish and a black lens assembly with a blue ring. The background is dark, making the light beam stand out.

DEFINITIVE  
LED

TKD  
Made in Italy

# DEFINITIVE<sup>®</sup> UNIT

New compact control unit which allows to easily add a powerful brushless micromotor to an existing dental chair.

The unit is also provided with a detachable silicone hose for the supply of the micromotor. All is necessary to do is to connect the existing turbine hose to the rear panel and then activate the micromotor by means of the existing unit's foot pedal.

On front panel it is possible to change speed and rotation direction of the micromotor.

*Speed:* 1000 ÷ 40000 RPM

*Supply voltage:* 230 Vac (external power supply converter)



The unit is complete with a DEFINITIVE<sup>®</sup>LED electric micromotor, detachable silicone hose, power supply converter.

**REF 393.00**





## **NUCLEUS® LED & NUCLEUS® iLED**

New high-performance brushless electric micromotor for endodontic or implantology procedures, with variable speed in both rotation directions.

Micromotors have got integrated LED illumination and can be sterilized in autoclave up to 134 °C / 2 bar.

The NUCLEUS®LED micromotor has got internal spray system and is equipped with a blue non-return O-ring for spray water.

Micromotors must be used together with the BMC60 electronic board.

Micromotors do not require any maintenance.

Speed: 100 ÷ 40000 RPM



**NUCLEUS®LED** electric micromotor with integrated LED  
REF 612.00



### **SET comprising:**

- 1 NUCLEUS®LED electric micromotor (REF 612.00)
- 1 Silicone hose (REF 324.9x.01)
- 1 BMC60 electronic board (REF 397.00)

**REF 612.9x**



**NUCLEUS®iLED** electric micromotor for implantology  
REF 614.00



### **SET comprising:**

- 1 NUCLEUS®iLED electric micromotor (REF 614.00)
- 1 Silicone hose (REF 324.5x.01)
- 1 BMC60 electronic board (REF 397.00)

**REF 614.9x**



## ***DUOPAD***®

Compact control panel for use with the DEFINITIVE®LED or NUCLEUS®LED electric micromotors and, optionally, the TITANUS®E or TITANUS®S or TITANUS® ELED or TITANUS® SLED piezo-electric scalers.

Control of a second electric micromotor is also possible.

The DUOPAD® control panel is meant to be easily fixed to the existing dental Unit's frame and can be directly connected to the BMC40 and/or BMC60 and/or USC60 electronic boards.

Commands and information are exchanged and transmitted via the integrated RS232 serial ports. Information on the status of the active instrument is clearly displayed on the LCD graphic interface. By means of the soft-touch keyboard, it is possible to choose the instrument and select the appropriate operating mode



Control unit for DEFINITIVE®LED electric micromotor, complete with metal bracket and two interface cables

**REF 392.00**



Control unit for NUCLEUS®LED electric micromotor, complete with metal bracket and two interface cables

**REF 398.00**







## *MOON* Evolution

High-performance curing lamp with 6 different programmed curing cycles, three of which featuring gradual soft start.

Lamp is equipped with a high-power high-efficiency LED for a better control and versatility. Straight or pistol configuration by means of a swivelling fibre holder.

*Light wavelength:* 430 ÷ 490 nm.

*Power supply:* 24 V~ ± 10 % or 20 ÷ 36 Vdc



**MOON** curing lamp (complete with Ø8 mm optical fibre)  
**REF 502.00**



Silicone hose for MOON lamp  
**REF 330.2x**

### **SET comprising:**

- 1 MOON curing lamp (REF 502.00)
- 1 silicone hose (REF 330.2x)

**REF 502.9x**



Ø8 mm optical fibre  
**REF 530.01**



Ø5 mm optical fibre  
**REF 530.02**





## LC2/PLC2

Universal power supply for two fibre-optic instruments.  
 DC output current.  
 Delayed turn-off time.  
 Operating with a wide range of input power supply:  
 $14 \div 26 \text{ V}\sim$  or  $19 \div 36 \text{ Vdc}$ .  
 Activation through two built-in pneumatic switches (PLC2).

**REF 381.00 / REF 382.00**

## USC60

Universal power supply for piezo-electric scalers.  
 Automatic frequency adjustment to the real resonance load so as to get maximum output power.  
 Power adjustable by means of reference analogue voltage or by means of RS232 serial port.  
 Operating frequency:  $27 \div 32 \text{ KHz}$ .  
 Input power supply:  $24 \text{ V}\sim$  or  $32 \text{ Vdc} \pm 15\%$

**REF 387.00**

## BMC40

Power supply for the DEFINITIVE® brushless electric motors.  
 Speed adjustable by means of reference analogue voltage or by means of RS232 serial port.  
 Speed range:  $1000 \div 40000 \text{ rpm}$ .  
 Input voltage:  $32 \text{ Vdc} \pm 10\%$

**REF 390.00**



## CONV24

Converter from alternate Voltage to continuous Voltage.  
 Input voltage:  $24 \text{ V}\sim \pm 15\%$   
 Output voltage:  $32 \text{ Vdc} \pm 10\%$ ,  $24 \text{ Vdc} \pm 1\%$

**REF 394.00**



## MOT2

The board allows to use two micromotors with one BMC40 or BMC60 electronic board.  
 Input Voltage:  $24 \text{ Vdc} \pm 15\%$

**REF 396.00**



## BMC60

Control board for the NUCLEUS®LED brushless electric micro-motor. Speed and Torque adjustable by means of reference analogue voltage or by means of RS232 serial port.  
 Speed range:  $100 \div 40000 \text{ rpm}$ .  
 Input Voltage:  $32 \text{ Vdc} \pm 10\%$

**REF 397.00**



# ***HOSES FOR TURBINES, AIR MICROMOTORS AND AIR SCALERS***

Wide range of models and colours.  
Standard length of silicone hoses: 1600 mm.  
Different lengths are available on special request.



## Pneumatic Hoses



3-hole exit adapter for standard 4-hole hoses

**REF 318.40**



Grey coiled hose, 3-hole connector

**REF 321.12**



Grey coiled hose, 4-hole connector

**REF 321.22**



Silicone hose, 3-hole connector

**REF 322.3x**



Silicone hose, with return air tubing and 4-hole connector

**REF 322.4x**



Silicone hose with 4-hole rotating (540°) connector  
**REF 322.4x.01**



Silicone hose, with return air tubing and 4-hole connector with electric socket  
**REF 322.6x**



Silicone hose, 4-hole connector with electric socket and nut for cooling spray adjustment  
**REF 322.6x.09**



Silicone hose, with return air tubing and 5-hole connector with integrated bulb  
**REF 322.5x**



Silicone hose with double-function connector for use with Bien-Air MC3 electric Micromotor or Turbine  
**REF 322.8x.04**



## Electric Micromotor Hoses

### *HOSES WITH CONNECTOR FOR ELECTRIC MICROMOTORS*

Wide range of models and colours.  
Standard length of silicone hoses: 1600 mm.  
Different lengths are available on special request.



Silicone hose with connector for DEFINITIVE® and Bien-Air MC3 electric micromotors  
**REF 322.8x**



Silicone hose with connector for NSK® Ti-Max M40(LED) electric micromotors  
**REF 322.8x.02**



Silicone hose with rotating (540°) connector for DEFINITIVE®LED and Bien-Air MC3 LK / LED electric micromotors  
**REF 322.8x.01**







Silicone hose with nut for cooling spray adjustment and with connector for use with DEFINITIVE® and Bien-Air MC3 electric micromotors

**REF 322.8x.09**



Silicone hose with connector for Bien-Air MC2 IR electric micromotors

**REF 327.6x**



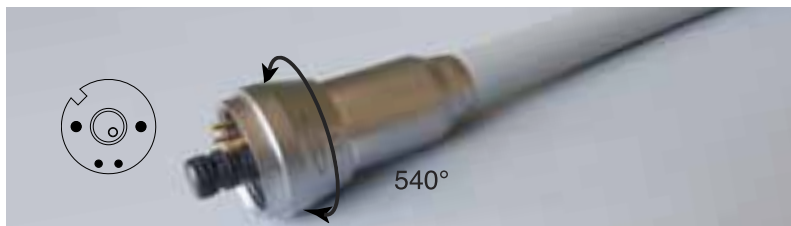
Silicone hose with connector for Bien-Air MC2 Isolite / LED electric micromotors

**REF 327.7x**



Silicone hose with rotating (540°) connector for use with Bien-Air MC2 Isolite / LED electric micromotors

**REF 327.7x.01**



Silicone hose with rotating (540°) connector for KaVo K196/K200 electric micromotor

**REF 323.8x.01**





Silicone hose with connector with nut for cooling spray adjustment for KaVo K196/K200 electric micromotors

**REF 323.8x.09**



540°



Silicone hose with rotating (540°) connector for NUCLEUS®LED micromotor

**REF 324.9x.01**



Silicone hose with connector for KaVo KL700/KL701 electric micromotors

**REF 325.9x**



Silicone hose with connector with nut for cooling spray adjustment for KaVo KL700/KL701 electric micromotors

**REF 325.9x.09**



540°



Silicone hose with rotating (540°) connector for Bien-Air MCX LED micromotor

**REF 326.9x.01**





## *SILICONE HOSES FOR PIEZOELECTRIC SCALERS*

Wide range of silicone hoses for piezoelectric scalers.  
Standard length of silicone hoses: 1600 mm.  
Different lengths are available on special request.



Silicone hose for TITANUS®E and TITANUS®S scalers

**REF 330.1x**



Silicone hose for EMS® Piezon® scaler

**REF 332.1x**



Silicone hose for Satelec® Newtron® scaler

**REF 333.1x**



Silicone hose for EMS® Piezon® LED scaler

**REF 334.1x**





Silicone hose for Satelec® Newtron® LED scaler  
**REF 335.1x**



Silicone hose for EMS® Piezon® scaler with nut for cooling spray adjustment  
**REF 332.1x.09**



Silicone hose for EMS® Piezon LED® scaler with nut for cooling spray adjustment  
**REF 334.1x.09**



Silicone hose for Kavo Piezo LED® scaler with nut for cooling spray adjustment  
**REF 336.1x.09**



## HOSES WITH MULTI-FUNCTION CONNECTION



Range of silicone hoses with Multi-function connection for Anthos / Stern Weber / Castellini / KaVo dental Units.

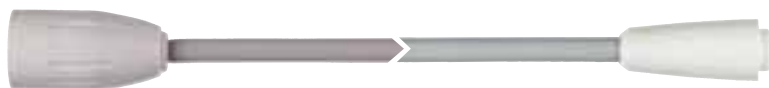
This special connection allows to manufacture dental units with easily detachable silicone hoses.

Four pneumatic ways and up to eleven electric ways are provided.

Different models for over 20 instruments are available.

The codes for silicone hoses for KaVo dental units can change according to the unit model.

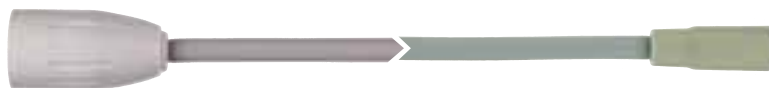
Available lengths for the silicone sheath: 1 200 mm (suffix C) or 1 350 mm (suffix D).



Silicone hose, Multi-function connection and connector for TITANUS® E/S scalers

**REF 340.1x.100C**

**REF 340.1x.CF.100C**



Silicone hose, Multi-function connection and connector for EMS® Piezon® scaler

**REF 340.1x.200C**

**REF 340.1x.CF.200C**

**REF 340.1x.KV.200C**



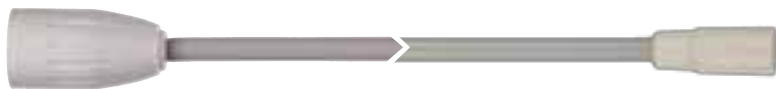
Silicone hose, Multi-function connection and connector for Satelec® Newtron® scaler

**REF 340.1x.300C**

**REF 340.1x.CF.300C**

**REF 340.1x.KV.300C**

## Multi-function Hoses

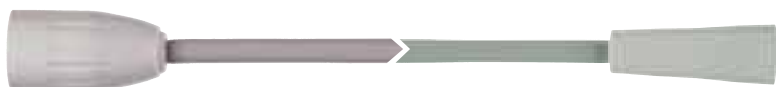


Silicone hose, Multi-function connection and connector for EMS® Piezon®LED scaler

**REF 340.1x.400C**

**REF 340.1x.CF.400C**

**REF 340.1x.KV.400C**

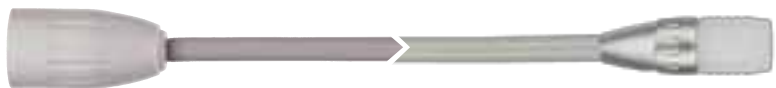


Silicone hose, Multi-function connection and connector for Satelec® Newtron®LED scaler

**REF 340.1x.500C**

**REF 340.1x.CF.500C**

**REF 340.1x.KV.500C**

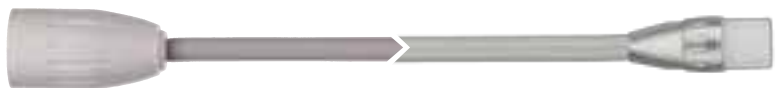


Silicone hose, Multi-function connection and connector for EMS® Piezon® scaler with nut for cooling spray adjustment

**REF 340.1x.209C**

**REF 340.1x.CF.209C**

**REF 340.1x.KV.209C**



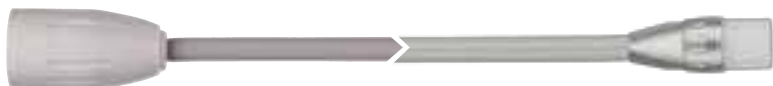
Silicone hose, Multi-function connection and connector for EMS® Piezon®LED scaler with nut for cooling spray adjustment

**REF 340.1x.409C**

**REF 340.1x.CF.409C**

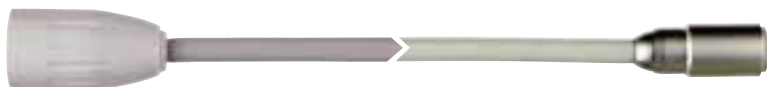
**REF 340.1x.KV.409C**





Silicone hose, Multi-function connection and connector for KaVo PiezoLED® scaler with nut for cooling spray adjustment

**REF 340.1x.KV.629C**



Silicone hose, Multi-function connection and connector for MOON curing lamp

**REF 340.2x.000C**

**REF 340.2x.CF.000C**



Silicone hose, Multi-function connection and 4-hole connector with electric socket

**REF 340.6x.000C**

**REF 340.6x.CF.000C**

**REF 340.6x.KV.000C**



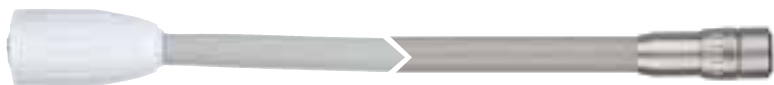
Silicone hose, Multi-function connection and 4-hole connector with electric socket with nut for cooling spray adjustment

**REF 340.6x.009C**

**REF 340.6x.CF.009C**

**REF 340.6x.KV.009C**

## Multi-function Hoses



Silicone hose, Multi-function connection and connector with nut for cooling spray adjustment for DEFINITIVE® and Bien-Air MC3 electric micromotors

**REF 340.8x.109C**

**REF 340.8x.CF.109C**

**REF 340.8x.KV.109C**



Silicone hose, Multi-function connection and rotating (540°) connector for DEFINITIVE®LED and Bien-Air MC3 LK / LED electric micromotors

**REF 340.8x.101C**

**REF 340.8x.CF.101C**

**REF 340.8x.KV.101C**

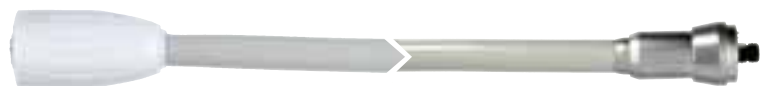


Silicone hose, Multi-function connection and rotating (540°) connector for Bien-Air MC2 Isolite / LED electric micromotors

**REF 340.8x.701C**

**REF 340.8x.CF.701C**

**REF 340.8x.KV.701C**



Silicone hose, Multi-function connection and rotating (540°) connector for KaVo K196/K200 electric micromotors

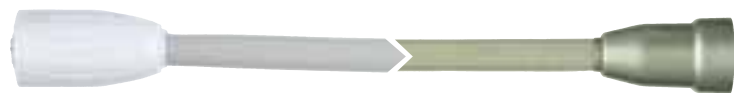
**REF 340.8x.KV.400C**





Silicone hose, Multi-function connection and connector with nut for cooling spray adjustment for KaVo K196/K200 electric micromotors

**REF 340.8x.KV.409C**



Silicone hose, Multi-function connection and rotating (540°) connector for NUCLEUS®LED electric micromotor

**REF 340.9x.401C**



Silicone hose, Multi-function connection and connector for KaVo KL700/KL701 electric micromotors

**REF 340.9x.KV.510C**



Silicone hose, Multi-function connection and connector with nut for cooling spray adjustment for KaVo KL700/KL701 electric micromotors

**REF 340.9x.KV.519C**

## Multi-function Hoses



Silicone hose, Multi-function connection and rotating (540°) connector for Bien-Air MCX LED electric micromotor

**REF 340.9x.600C**

**REF 340.9x.CF.600C**

**REF 340.9x.KV.610C**



Silicone hose, Multi-function connection and Luzzani MINIMATE Syringe (3 functions)

**REF 340.5x.100C**

**REF 340.5x.CF.100C**

**REF 340.5x.KV.100C**



Silicone hose, Multi-function connection and Luzzani MINIMATE Syringe with angled body (3 functions)

**REF 340.5x.106C**

**REF 340.5x.CF.106C**

**REF 340.5x.KV.106C**



Silicone hose, Multi-function connection and Luzzani MINILIGHT Syringe (3 functions)

**REF 340.5x.200C**

**REF 340.5x.CF.200C**

**REF 340.5x.KV.200C**



Silicone hose, Multi-function connection and Luzzani MINIMATE Syringe (3 functions)

**REF 340.5x.206C**

**REF 340.5x.CF.206C**

**REF 340.5x.KV.206C**



Silicone hose, Multi-function connection and Luzzani MINILIGHT Syringe (6 functions)

**REF 340.5x.300C**

**REF 340.5x.CF.300C**

**REF 340.5x.KV.300C**



Silicone hose, Multi-function connection and Luzzani MINILIGHT Syringe with angled body (6 functions)

**REF 340.5x.306C**

**REF 340.5x.CF.306C**

**REF 340.5x.KV.306C**



Silicone hose, Multi-function connection and Luzzani MINIBRIGHT Syringe with LED light (6 functions)

**REF 340.5x.400C**

**REF 340.5x.CF.400C**

**REF 340.5x.KV.400C**

## Available colors for the silicone sheath:

**x = 1**

Black

**x = 2**

Light grey

**x = 3**

Standard grey

**x = 4**

Middle grey

**x = 5**

White

**x = 7**

Brown



LubriONCE® grease lubricator (dispenser)  
**REF 112.00**



LubriONCE® grease cartridges  
**REF 112.90** (4 pcs)



Nozzles  
**REF 120.01 / 02 / 03 / 04 / 05 / 06 / 07 / 09**



SO2000  
service oil (500 ml)  
**REF 120.00**



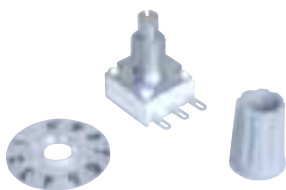
Air pressure gauge with 4-hole connection  
**REF 129.40**



3-way connector (3 x 1/16")  
**REF 095.10**



3-way connector (2 x 1/8" + 1/16")  
**REF 095.11**



Electric potentiometer  
**REF 035.20.00**



PPOT pneumatic potentiometer  
**REF 395.00**



Pneumatic electric switch  
**REF 370.00**



Water filter  
**REF 030.08.00**



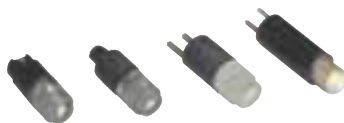
Adapting nut  
**REF 045.02.00**



Protection shield for MOON lamp  
**REF 520.00**



KIT LED for KaVo MULTiflex®LUX rapid couplings  
**REF 026.00.02**



Various LEDs  
**REF 026.00.0x**

DESCRIPTION	PART NUMBER	PIECES PER PACK
LubriONCE® grease lubricator cartridges	REF 112.90	4
SO2000 Service Oil	REF 120.00	1
Pointed nozzle	REF 120.01	1
Nozzle for GYROFLEX®/MULTiflex® connection	REF 120.02	1
Nozzle for straight and contra-angle handpieces	REF 120.03	1
Nozzle for instruments with NSK connection	REF 120.04	1
Nozzle for instruments with Bien-Air connection	REF 120.05	1
Nozzle for instruments with Sirona® connection	REF 120.06	1
Nozzle for instruments with W&H connection	REF 120.07	1
Nozzle for turbine rotors	REF 120.09	1
Rotor for BRAVIA®L / LN / LS / LB turbines	REF 162.90	1
Rotor for BRAVIA®XL / XLN / XLS / XLB turbines	REF 162.90.01	1
Rotor dor BRAVIA®XL Special Edition turbine	REF 163.90	1
Rotor for THALIA® turbine	REF 186.90	1
Rotor for MICRA®L turbine	REF 194.90	1
Cartridge for AIRSON® scaler	REF 230.90	1
Cartridge for SONOSURGERY® AIR POWER handpiece	REF 234.90	1
Insert #1	REF 230.01	1
Insert #2	REF 230.02	1
Insert #4	REF 230.04	1
Insert #SPF05	REF 250.05	1
Insert #SPF06	REF 250.06	1
Insert #SPF07	REF 250.07	1
Insert #SBM01	REF 250.11	1
Insert #SBM02	REF 250.12	1
Insert #SBM03	REF 250.13	1
Insert #SSB01	REF 250.21	1
Insert #SSB02	REF 250.22	1

## Spare parts

Insert #SSBF1	<b>REF 250.23</b>	1
Insert #SSBF2	<b>REF 250.24</b>	1
Insert #SSL01	<b>REF 250.31</b>	1
Insert #SBS01	<b>REF 250.33</b>	1
Insert #SIS01	<b>REF 250.41</b>	1
Insert #SIS02	<b>REF 250.42</b>	1
Insert #SIS03	<b>REF 250.43</b>	1
Insert #SIS04	<b>REF 250.44</b>	1
Insert #SIS05	<b>REF 250.45</b>	1
Insert #SIS06	<b>REF 250.46</b>	1
Insert #SIS07	<b>REF 250.47</b>	1
Insert #AX	<b>REF 430.01</b>	1
Insert #BX	<b>REF 430.02</b>	1
Insert #CX	<b>REF 430.03</b>	1
Insert #PX	<b>REF 430.04</b>	1
Insert #PSX	<b>REF 430.05</b>	1
Insert #DX	<b>REF 430.07</b>	1
Insert #EX	<b>REF 430.08</b>	1
Insert #EX + tip #PIR	<b>REF 430.09</b>	1
Insert #PLX1	<b>REF 430.11</b>	1
Insert #PLX2	<b>REF 430.12</b>	1
Insert #PLX3	<b>REF 430.13</b>	1
Insert #PLX4	<b>REF 430.14</b>	1
Insert #PLX5	<b>REF 430.15</b>	1
Insert #AX (KaVo® compatible)	<b>REF 430.01.KV.0</b>	1
Insert #BX (KaVo® compatible)	<b>REF 430.02.KV.0</b>	1
Insert #CX (KaVo® compatible)	<b>REF 430.03.KV.0</b>	1
Insert #PX (KaVo® compatible)	<b>REF 430.04.KV.0</b>	1
Insert #PSX (KaVo® compatible)	<b>REF 430.05.KV.0</b>	1
Insert #DX (KaVo® compatible)	<b>REF 430.07.KV.0</b>	1



Insert #EX (KaVo® compatible)	<b>REF 430.08.KV.0</b>	1
Insert #EX + tip #PIR (KaVo® compatible)	<b>REF 430.09.KV.0</b>	1
Insert #PLX1 (KaVo® compatible)	<b>REF 430.11.KV.0</b>	1
Insert #PLX2 (KaVo® compatible)	<b>REF 430.12.KV.0</b>	1
Insert #PLX3 (KaVo® compatible)	<b>REF 430.13.KV.0</b>	1
Insert #AX-S	<b>REF 480.01</b>	1
Insert #BX-S	<b>REF 480.02</b>	1
Insert #PX-S	<b>REF 480.04</b>	1
Dynamometric wrench for sonic inserts	<b>REF 104.00</b>	1
DYNO dynamometric wrench for ultrasonic inserts	<b>REF 109.00</b>	1
Plastic 3-way connector (3 x 1/16")	<b>REF 095.10</b>	10
Plastic 3-way connector (2 x 1/8" + 1 x 1/16")	<b>REF 095.11</b>	10
O-rings for TITANUS®/TITANUS®E/S scalars	<b>REF 001.22.01</b>	10
O-rings for TITANUS®E scaler REF 410.00.00	<b>REF 001.22.03</b>	10
O-rings for TITANUS®S scaler REF 460.00.00	<b>REF 001.25.03</b>	10
Green O-rings for GYROFLEX® couplings	<b>REF 001.29.01</b>	10
Black O-rings for GYROFLEX® couplings	<b>REF 001.29.02</b>	10
O-rings for VORTICE® and DEFINITIVE® micromotors	<b>REF 001.89.01</b>	10
Blue O-rings for DEFINITIVE® / NUCLEUS® micromotors	<b>REF 001.98.01</b>	10
Ø8 mm Optical fibre for MOON lamp	<b>REF 530.01</b>	1
Ø5 mm Optical fibre for MOON lamp	<b>REF 530.02</b>	1
Protection shield for MOON lamp	<b>REF 520.00</b>	1
LED for GYROFLEX®LED rapid coupling	<b>REF 026.00.00</b>	1
KIT LED for KaVo MULTIflex®LUX rapid couplings	<b>REF 026.00.02</b>	1
LED for Bien-Air MC2 / MC3 electric micromotors	<b>REF 026.00.04</b>	1
LED for Sirona R/F rapid couplings	<b>REF 026.00.06</b>	1
LED for Bien-Air turbines / BRAVIA®LB / XLB	<b>REF 026.00.08</b>	1
LED for DEFINITIVE®LED electric micromotor	<b>REF 098.08.00</b>	1
Bulb for GYROFLEX®L couplings	<b>REF 028.00.00</b>	2



## Orders

Minimum order and requested invoice amount: € 120

## Delivery

Every efforts will be made to deliver orders promptly. However TKD cannot be held responsible for damages related to late delivery.

## Shipments

Orders are shipped at Customer's own risk. The buyer shall be responsible for the goods as soon as it leaves the factory (ex-works), unless other provisions have been agreed.

## Terms of guarantee

TKD guarantees its products against defective workmanship or materials for a period of 12 months (24 months on VORTICE®/DEFINITIVE®/NUCLEUS®LED/NUCLEUS®iLED, micromotors, SONOSURGERY® UNIT / DEFINITIVE® UNIT / DUOPAD®, TITANUS®E/S, TITANUS®ELED/SLED scalars, DEFINITIVE® micromotors, MOON lamps, Electronic boards and Silicone hoses) from the date of purchase.

Replacement under guarantee of any part (particularly Ball-bearings, Inserts, Bulbs, LEDs) which has been damaged by normal wear and tear is excluded.

The guarantee is no longer valid if:

- the damage is due to misuse, incorrect installation or poor lubrication of the product
- the damage is due to non-observance of the enclosed Operating Instructions
- a non-authorized person has attempted a repair or modification of the product

Claims under the terms of the guarantee will only be considered upon presentation, together with the product, of the corresponding invoice, or consignment note, on which the date of purchase, the product reference and the serial number, or lot number, are clearly shown.

In case of justified claims, TKD will repair the product free of charge.

Any other claims, particularly for damages, are excluded.

## Liability

TKD can only be held liable in relation to the provisions herein and in accordance to the legal provisions as manufacturer defined in the European Directives 93/42/EEC and 2007/47/EC for medical devices.

Place of jurisdiction: Florence, Italy.

## Technical data

TKD reserves the right to make design and specification changes for product improvement without prior notice.


**SIMPLIFYING DENTAL MOTION**

CAT.GEN./Cat.098EN/2021



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