

I AM
UNITED

www.acteongroup.com

Non contractual document - Ref. D28121 - V1 - 01/2017 - Copyright © 2013 SATELEC®. All rights reserved. No information or part of this document may be reproduced or transmitted in any form without the prior permission of ACTEON®.



U.N.I

Handpieces Motors Turbines

**Reliable rotary instruments for
lasting patient safety.**

ACTEON® PUSHES THE LIMITS

U.N.I. FOR MORE COMPREHENSIVE PROCEDURES



▶ 4 Contra-angles
▶ 1 Straight handpiece

▶ 4 Turbines

▶ 2 Micromotors

U.N.I. Together, let's improve the patient's dental experience

With the new chair adapted rotating instruments U.N.I, ACTEON® helps you to provide safe decisive treatments that reassure the patients.

Benefit from ACTEON® leitmotiv "More Inventive, Less Invasive", with the guarantee of a more comfortable clinical experience for all.

YOU & I ARE PARTNERS

As a major partner for equipping dental chairs, ACTEON® is there to provide ultrasonics, polishers, intraoral cameras, and henceforth, motors, contra-angles and turbines.





U.N.I

Turbines

ADVANCED TREATMENTS



Air-driven high-speed handpieces can reach more than **320 000rpm**. As the blades of a wind turbine, the air under pressure provides high-speed rotation to the instrument's end. Air turbines can therefore **quickly and efficiently remove tooth structure**.

Whilst being **ergonomic in weight and size**, U.N.I turbines inside mechanics is **specially reinforced** for

SUSTAINABLE EFFICIENT USE

▶ Speed

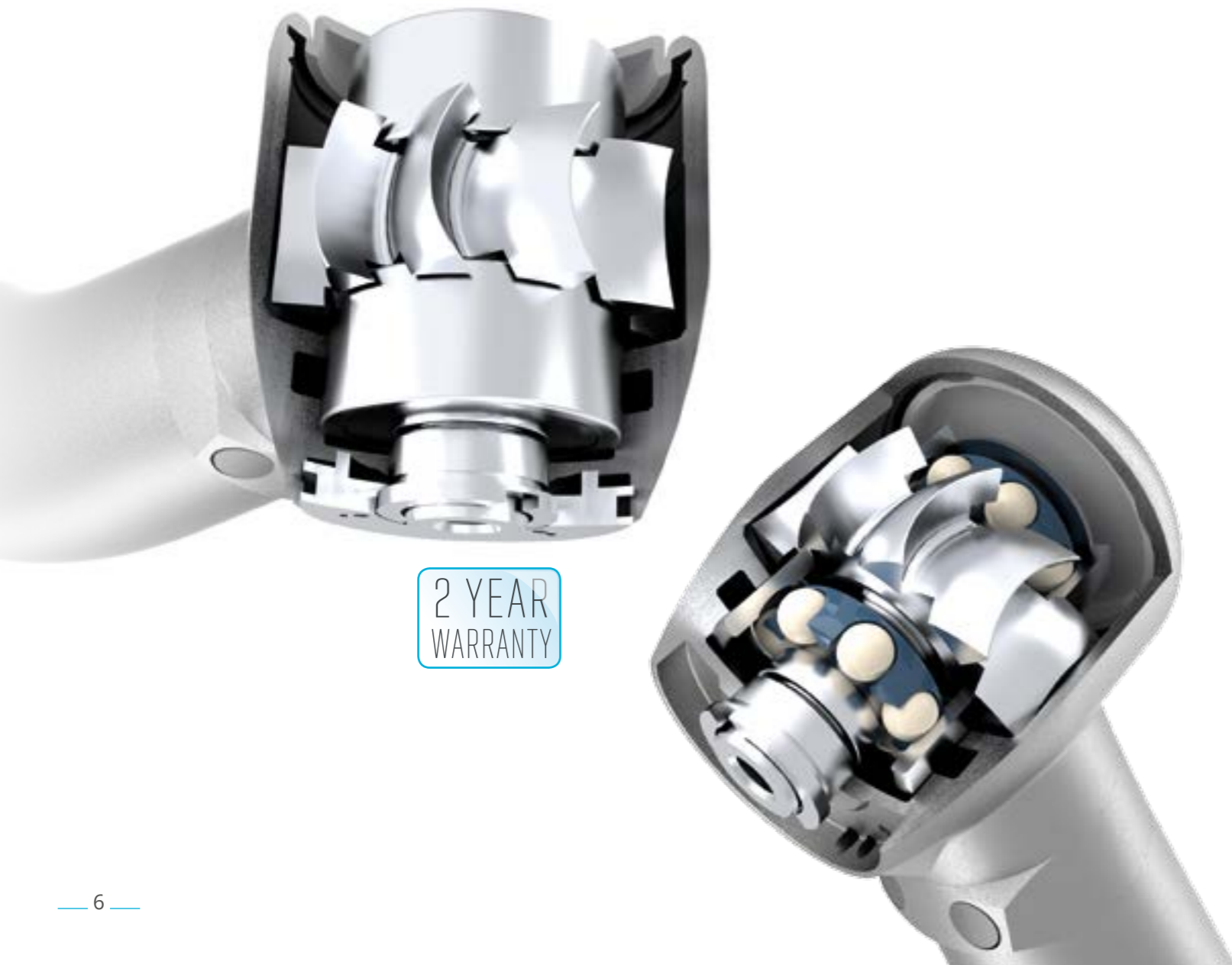


▶ Accessibility



THINK DURABLE

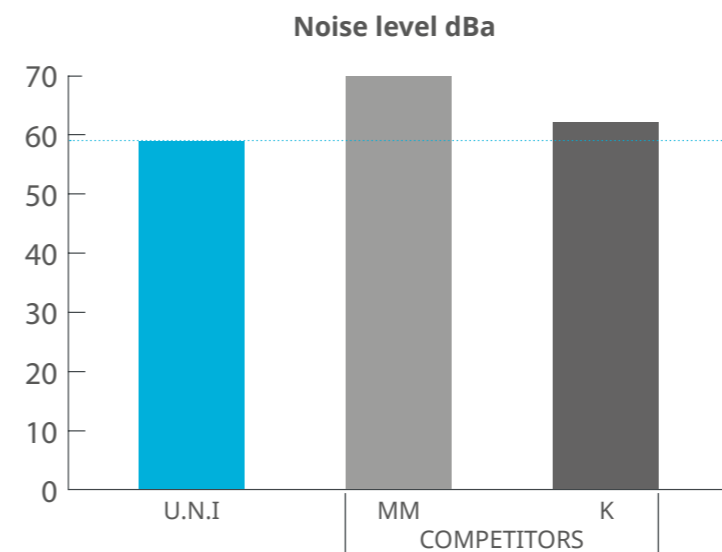
- ▶ **Enhanced rotor lifetime**
Robust rotor materials guarantee turbine durability
- ▶ **Longer ball bearings resistance**
Enduring high quality ceramic ball bearings



2 YEAR WARRANTY

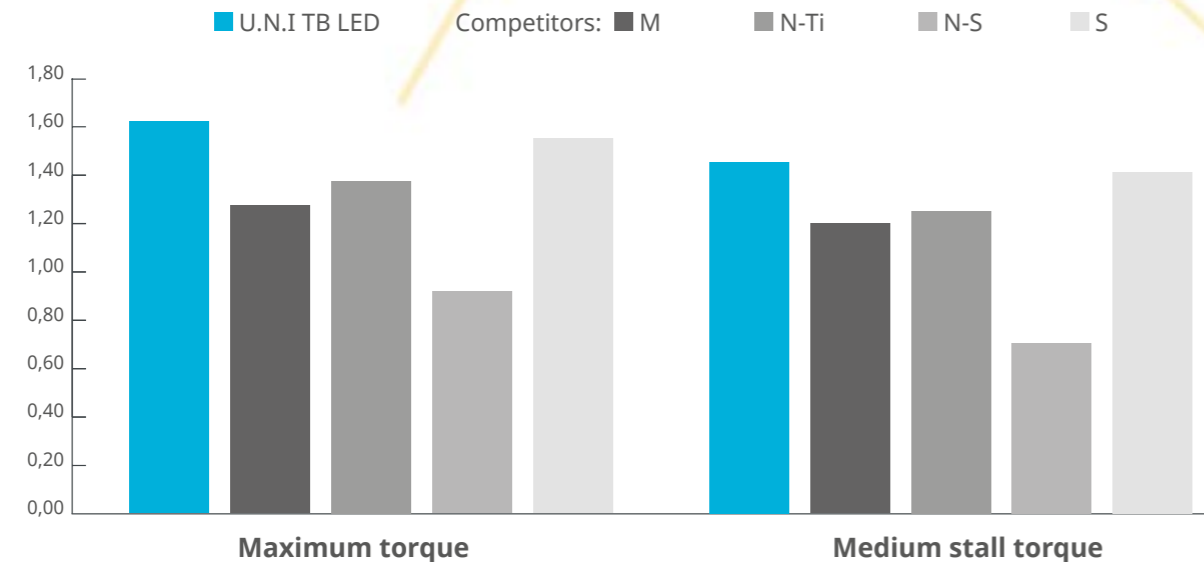
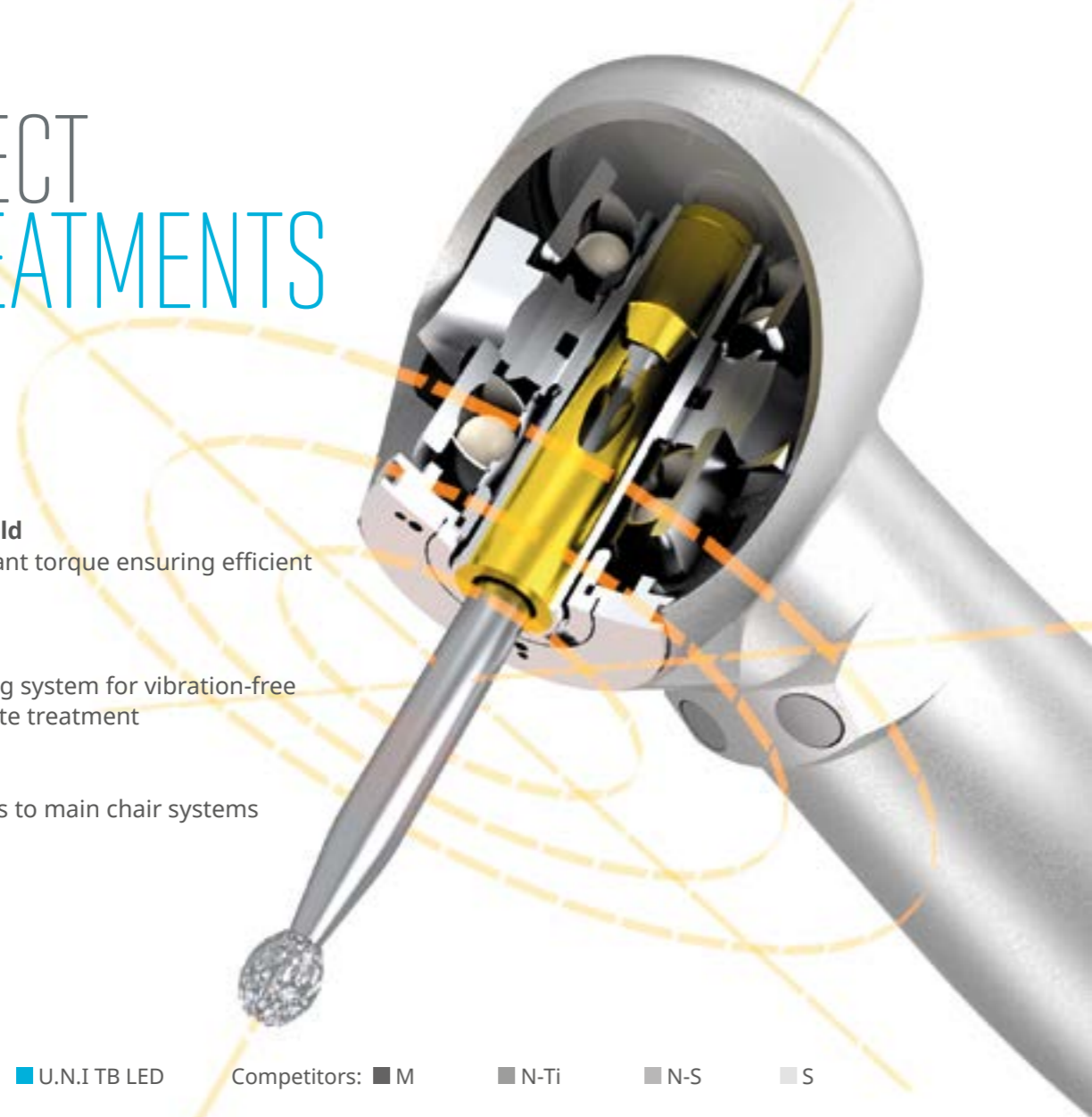
OPERATE SMOOTHLY

- ▶ **Excellent lighting focus**
Multifiber optical glass LED light delivering powerful (17 000lux) lighting of the instrument's tip as well as the operative area
- ▶ **Enhanced visibility & ergonomics**
Well balanced frame for easier use.
U.N.I TB.S turbines small heads improve access and visibility in posterior areas
- ▶ **Less routine fatigue**
Quieter due to vibrations & spray control providing a more comfortable working environment



PERFECT YOUR TREATMENTS

- ▶ **Stable power & yield**
Superior and constant torque ensuring efficient procedures
- ▶ **Precision**
Exclusive bur-locking system for vibration-free rotation and accurate treatment
- ▶ **Compatibility**
Adaptable couplings to main chair systems



ACT SAFE



- ▶ **Tissues preservation**
2x3 separate air & water sprays for accurate and excellent bur cooling
- ▶ **Anti heating system**
Specific head cover and metal ball reduce heat transfer and minimize the risk of patient burning
- ▶ **Bacteria protection**
 - Non return valve preventing bacteria from entering the instrument, for better hygiene
 - Low inertia after footswitch release avoiding bacteria dispersion

CLINICAL INDICATIONS

- Air-driven turbines are dedicated for finishing interventions
- Enamel caries removal
 - Prosthetic finishing lines
 - Polishing in prophylaxis



U.N.I

Handpieces

THE GREATEST PATIENT CARE

Connected on micromotors, electric handpieces deliver low-speed, from 40 000rpm, to high-speed rotation, 200 000rpm. Due to solid gear-to-gear contact and tight bur attachment, instrument **rotation is perfectly controlled**, for more **precise and effortless procedures**.



U.N.I contra-angles and handpiece offer **high and constant torque** for smooth and accurate treatment with

REDUCED CHAIRTIME

▶ Safety



▶ Precision



▶ Visibility



LED



DO MORE THAN EXPECTED

- ▶ **Efficiency & constancy**
High quality inner cinematic providing excellent gear transmission



STAY FOCUSED

- ▶ **Accurate cutting & finishing lines**
Excellent bur alignment with reduced friction due to cartridges maintaining the rotor

2 YEAR WARRANTY

IGNORE TIME PASSING

- ▶ **Stable quality**
Longer lasting cutting instruments thanks to constant torque and speed
- ▶ **Longer lifetime**
High quality ceramic ball bearing cage for sustained durable use
- ▶ **Long term performance**
Shock-proof rotor with contra-angle heads reinforced in steel

CLINICAL INDICATIONS

Contra-angle 1:1

- Tungsten carbonate burs on low-speed contra-angles means accurate finishing
- Caries removal
 - Polishing
 - Preparation refinement
 - Dentine reduction
 - Crown finishing
 - Post pin drilling

Straight handpiece 1:1

- Straight handpiece can be used for treatments with strong constraints and repeated pressure
- Trepanation
 - Resection
 - Wisdom teeth extraction

Contra-angle 1:5

- Diamond-coated burs on high-speed contra-angles offer many treatments
- Cavity preparation
 - Crown preparation
 - Obturation removal
 - Fixed prosthesis sectioning
 - Ceramic adjustment
 - Caries removal
 - Apical resection

SECURE FOR YOU & YOUR PATIENT

HANDPIECES

PRESERVE TISSUES

▶ Reduced risk of patients' tissues burning

The industrial ceramic ball has the property of having low thermal conductivity protecting it from high temperature rises

The push button associated with the ball prevents the transfer of heat to surrounding tissues

— Secure system —



▶ Accurate & ultimate instrument cooling

Perfect combination of water and air sprays crossing at bur extremity

- CA LED = precise and powerful 4 mixed holes
- CA = safe 2x 3 water & air spray

▶ No cross contamination

- Anti return valve for bacteria protection
- Easy sterilization
- Better hygiene —

PROTECT PATIENTS

▶ Perfect bur engagement & grip

Exclusive bur-locking technology:

- avoids any risk of bur release and swallowing by the patient whilst operating
- Patient security —
- allows perfectly concentric rotation with no bur chatter
- Vibration-free rotation —

▶ U.N.I CA 1:1 = latch

▶ U.N.I CA 1:5 = friction



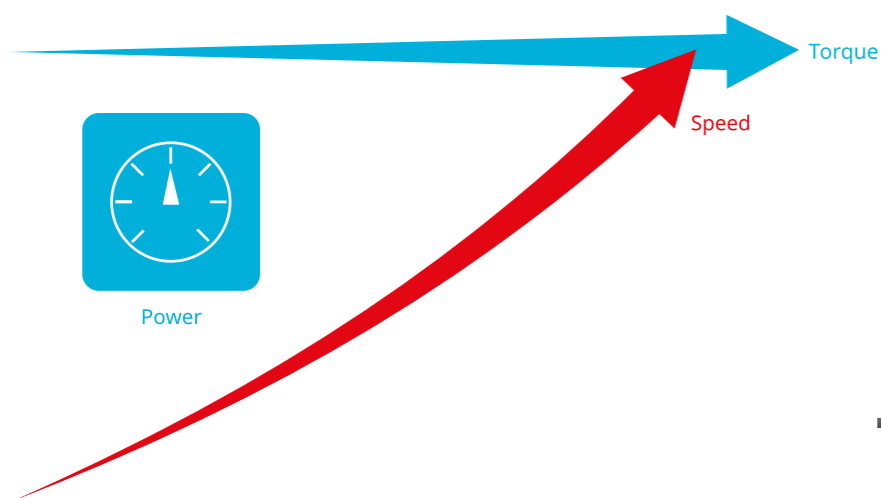
ALLY PERFORMANCE...

► Fast & effortless treatments

Wide speed range & high torque for constant power

— Reduced treatment times —

— No applying of pressure —



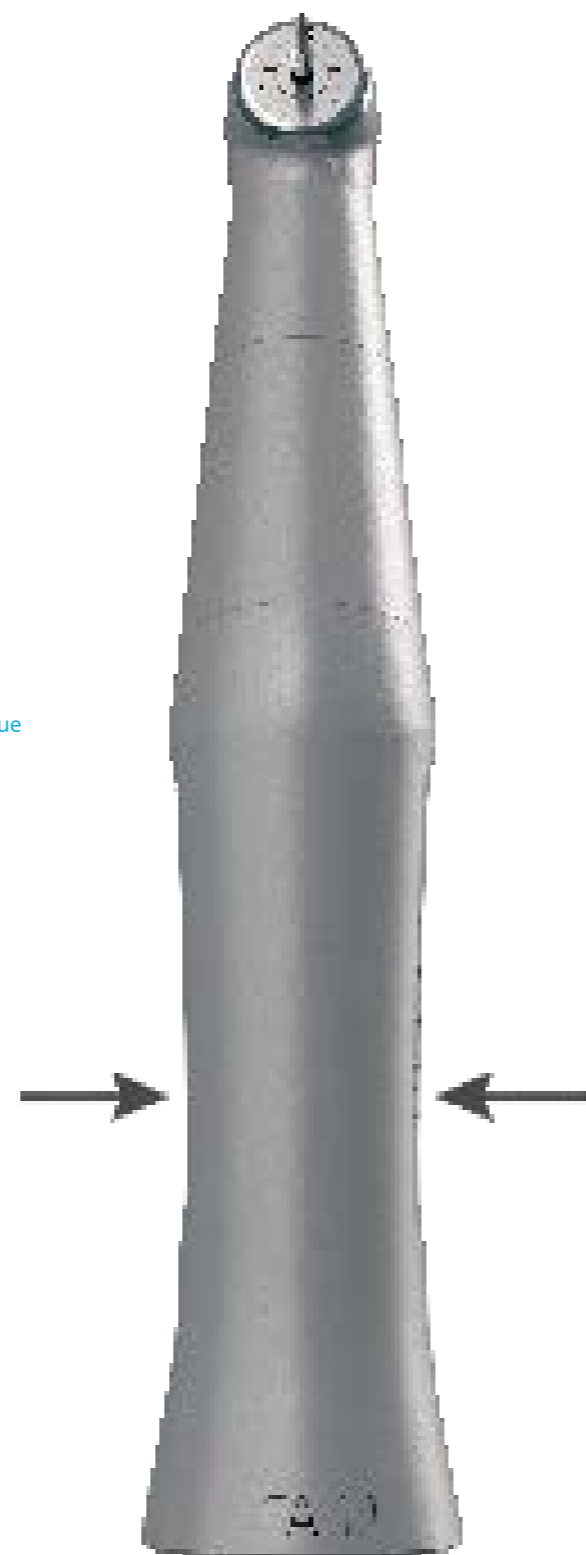
► Ergonomics adapted to daily needs

• Balanced body with flat easy-to-grip sides

• Small head for easy access in posterior areas

• Smooth vibrations

— Pleasant working comfort —



AND SERENITY

► Maximized visibility

• Double LED specifically lighting bur extremity and operating area

• Light and spray are precisely focused on bur extremity to avoid glare effect

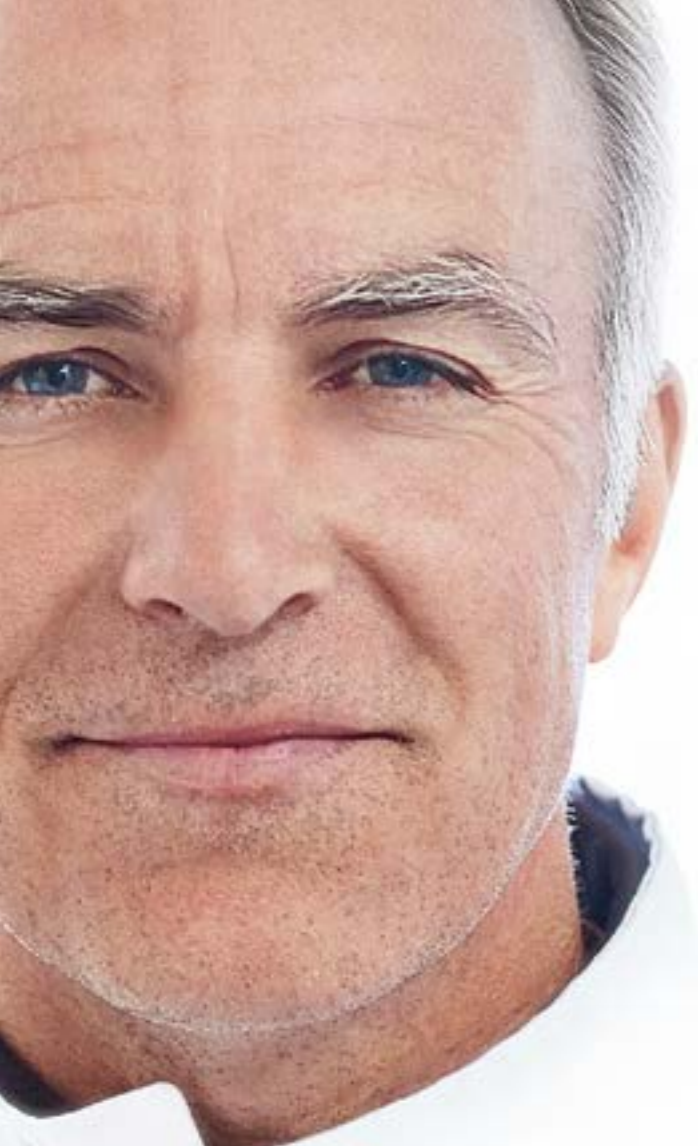
— Enhanced visual comfort —

► Quiet & calm clinical experience

Silent treatment due to high quality inner cinematic and perfectly mixed water & air on CA LED

— Less patient anxiety —





U.N.I

Motors

POWER IN HANDS



U.N.I LED motors range consists of:

- U.N.I MT brush micromotor with carbon brushes technology, simple and efficient
- U.N.I MT.BL brushless micromotor, compact and driven by a sophisticated electronic drive

Electric micromotors deliver to handpieces high power and torque for

EFFICIENT PROCEDURES



► Performance

► Endurance



**Universal ISO
connector compatible
with all contra-angles**

SMART TECHNOLOGY

► Powerful & steady power

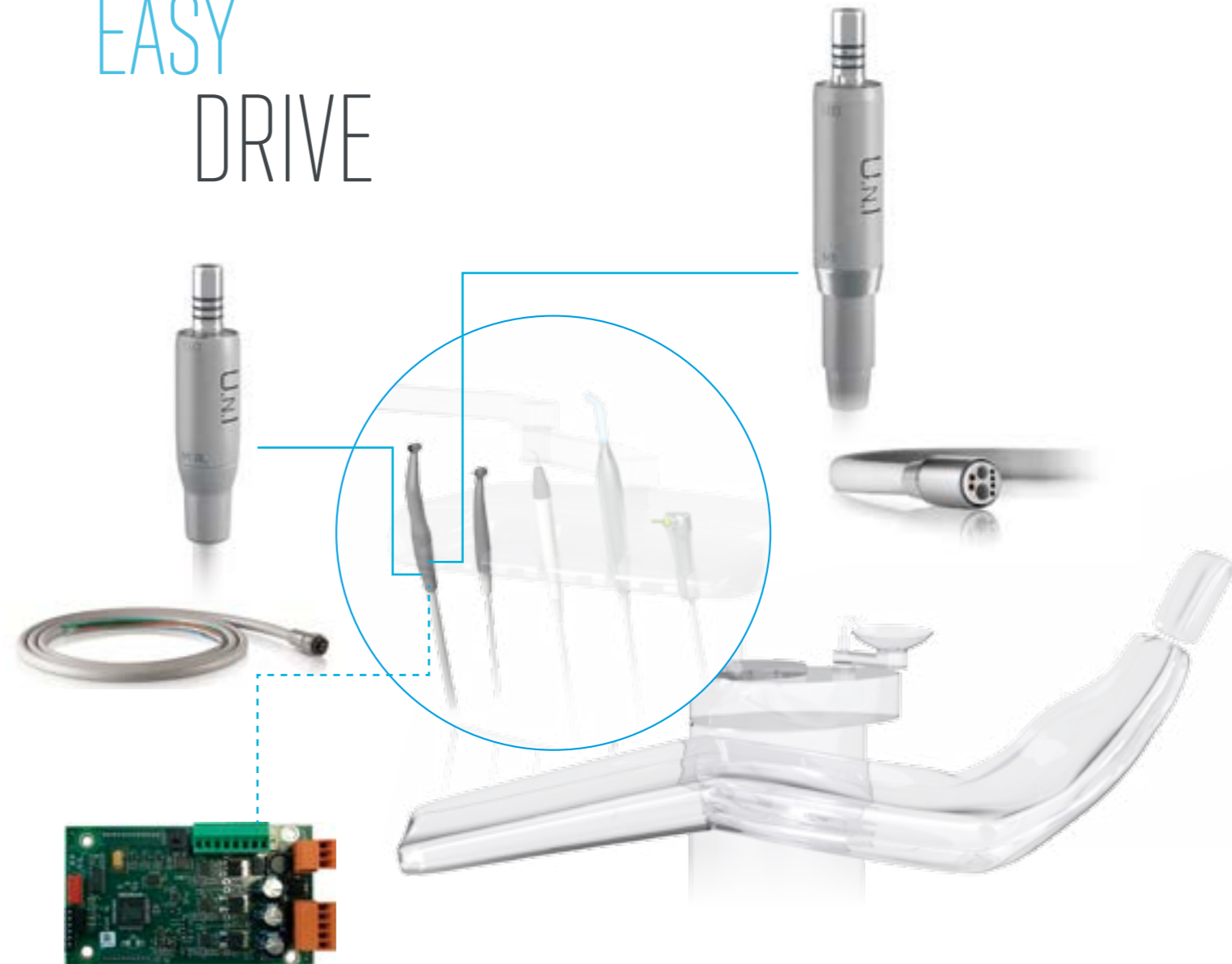
- Power is automatically regulated to compensate clinical constraints
- Perfect control of speed and torque, for constant power with no vibration
- Better efficiency —

► Light & bright operations

- Handpieces connected on motor form a balanced tool with a real sensation of lightness
- U.N.I MT motor cable runs through 200° for improved accessibility in the mouth
- Luminous intensity, adjustable from 0 to 38 000lux, gives natural lighting with no areas of shadow
- Improved ergonomics —



EASY DRIVE









► Simple integration into all dental chairs

- Smart electronic modules
- Flexible cord
- Powerful LED motors
- Get U.N.I instruments within easy reach —



► High durability with reduced maintenance cost

- Golden-plated electric contacts confer better conductivity and avoid oxidation
- Lubrication-free and easy sterilization
- Increased life-time —

CHOOSE YOUR U.N.I INSTRUMENT

U.N.I Turbines	F28122  UNI TB	F28123  UNI TB.S	F28120  UNI TB LED	F28121  UNI TB.S LED
Head size	Ø12.6 x 14.5mm (22.6mm with bur 19mm)	Ø10.6 x 13.3mm (21.8mm with bur 19mm)	Ø12.6 x 14.5mm (22.6mm with bur 19mm)	Ø10.6 x 13.3mm (21.8mm with bur 19mm)
Speed	320 000rpm	315 000rpm	320 000rpm	315 000rpm
Power	17W	12W	17W	12W
Light	-	-	LED	LED
Spray	2x 3 separate air/water sprays	2x 3 separate air/water sprays	2x 3 separate air/water sprays	2x 3 separate air/water sprays
Noise	59dBa	59dBa	59dBa	59dBa
Weight	75g	71g	72g	68g
Main benefit	Speed	Accessibility	Power	Visibility
Bur locking system	Friction	Friction	Friction	Friction
Connections	F28124  U.N.I Fix		F28125  Multiflex	

U.N.I Handpieces	F28203  UNI CA 1:1	F28204  UNI CA 1:5	F28202  UNI HP 1:1	F28200  UNI CA 1:1 LED	F28201  UNI CA 1:5 LED
Head size	Ø9.8 x 15.3mm (24.9mm with bur 19mm)	Ø9.8 x 15.5mm (22.9mm with bur 19mm)	-	Ø9.4 x 14.1mm (23.3mm with bur 19mm)	Ø9.4 x 14.4mm (21.7mm with bur 19mm)
Speed	40 000rpm	200 000rpm	40 000rpm	40 000rpm	200 000rpm
Power	1:1	1:5	1:1	1:1	1:5
Light	-	-	-	Multi-fiber glass LED	Multi-fiber glass LED
Spray	2x 3 separate air/water sprays	2x 3 separate air/water sprays	Internal spray	4 asymmetrical mixed air/water sprays	4 asymmetrical mixed air/water sprays
Noise	57dBa	58dBa	50dBa	55dBa	55dBa
Weight	85g	90g	79g	87g	90g
Main benefit	Precision	Power	Resistance	Safety	Accessibility
Bur locking system	Latch	Friction	Latch	Latch	Friction

U.N.I Motors	F28400  UNI MT	F28401  UNI MT.BL
Size	Ø21 x 95mm	Ø21 x 42mm
Speed	60 - 40 000rpm	1 000 - 40 000rpm
Torque	> 2.8Ncm	> 2.5Ncm
Light	Internal LED	Internal LED
Noise	54dBa	51dBa
Weight	98g	79g
Main benefit	Performance	Endurance