



CONTRA-ANGLES AND HANDPIECES  
UNFAILING PRECISION

# MICRO-SERIES INSTRUMENTS SIZE MATTERS



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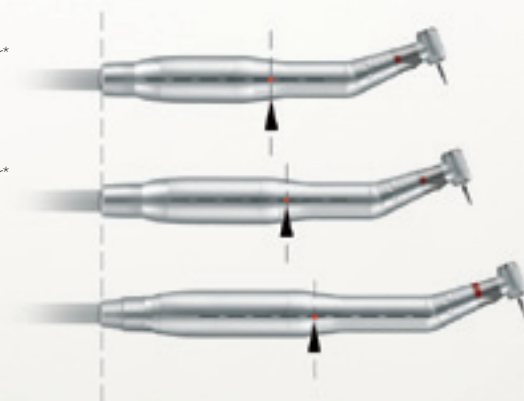
Bien-Air contra-angles and handpieces offer you the best of Swiss microtechnology. Designed and manufactured in the heart of Watch Valley, each instrument is a masterpiece of metal-working, where skills combine to create a rugged, ultra-precise and quiet device.

From endodontics and surgery to implantology and restoration, Bien-Air has the instrument you need.

40% more compact and 33% lighter\*  
MCX micromotor and Micro-Series  
contra-angle

30% more compact and 23% lighter\*  
MX2 micromotor and Micro-Series  
contra-angle

MX micromotor and  
standard contra-angle



\*MX micromotor and standard contra-angle combination only. Micro-Series instruments are compatible with Bien-Air MX2 LED, MCX LED, MCX, MC2, MC3 and MX short nose micromotors, and the MX-i LED.



### MICRO-SERIES

Up to 40% shorter and 33% lighter, Micro-Series combinations offer you perfect balance, exceptional power and unique versatility.

Combined with the new short nose LED micromotors, Micro-Series contra-angles and handpieces redefine the standards for dental instruments.

Used together, the new Micro-Series micromotor and contra-angle are no larger than a turbine. By reducing the size as much as possible, the balance point of the instrument/micromotor assembly has been moved noticeably forward. This results in perfect balance. The force required to keep the instrument in the hand has been significantly reduced. This allows for more accurate movements, with less fatigue at the end of the day.

Micro-Series, perfectly balanced instrument and micromotor combinations, with no compromise in terms of performance.

Micro-Series—welcome to a new dimension.



Micro-Series

Thanks to its perfect balance, your movements are more precise and fatigue is reduced at the end of the working day.



Standard version

# WELCOME TO THE WORLD OF EXCELLENCE



## DUALOOK LIGHT

DUALOOK is exclusive to Bien-Air. In addition to being robust enough to withstand all conditions, the two multi-strand optical glass conductors provide an enveloping, non-dazzling light. Its two offset light sources allow you to see depth clearly and accurately. Shadows are virtually eliminated from the working area, including in front of the bur. What if your car only had one headlight? DUALOOK: the best light on the market.



## ACCU-CHUCK

The precision of the practitioner's movements must be relayed to the patient with no interference of any kind. This is why it is so important that your instrument is as precise as possible. The chuck locking and drive technologies in Bien-Air's rotary instruments are the most precise on the market. And this is not by pure chance. The unique procedures illustrate the Swiss quality which has earned Bien-Air its credentials and reputation: parts machined to the exact micron, rectified and honed, for enhanced reliability and reduced noise levels. This gives the instruments perfect equilibrium, free from any imbalance or vibration. Their unique precision and reliability will make them indispensable. And an additional advantage - your burs will last longer.



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#### ACCU-SPRAY

Research conducted by Bien-Air engineers has clearly demonstrated the superior cooling power of six separate air and water nozzles. With the ACCU-SPRAY system, the air disperses the water to a highly precise point before contact with the bur. The ultra-precise nebulisation cools the bur and dental material as efficiently as possible. It also ensures perfect visibility in the working area. The separate water and air ducts also prevent blockages.



#### COOL TOUCH

Bien-Air is the only manufacturer in the world to offer a push-button bur change mechanism with an anti-heating safety system. This reduces the risk of burning your patients with the head of your instrument. A tungsten carbide ball is placed between the pushbutton and the top of the bur locking mechanism. It absorbs heat in the event of contact when rotating. COOL TOUCH. An exclusive invention for your comfort and your patients' safety.



Thanks to the unique performance of the combination of micromotors and Bien-Air control units, no more than two contra-angle handpieces are now needed for the majority of dental restoration, prophylactic or endodontic work, including procedures using NiTi tools. The available speed range with the CA 1:1 and CA 1:5 is 60 to 200,000 rpm. This remarkable progress makes it possible to reduce the number of instruments in the practice.



Bien-Air micromotors give you optimal rotational control of the bur at low speeds. 1 red contra-angle and 1 blue contra-angle are now sufficient to cover almost all operations.



# TWO INSTRUMENTS FOR ALL YOUR INTERVENTIONS



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1 RED 1:5 CONTRA-ANGLE AND 1 BLUE 1:1 CONTRA-ANGLE ARE ALL YOU WILL REQUIRE FOR ALL YOUR INTERVENTIONS

Applications and contra-angles	CA 1:5	CA 1:1
Minimum speeds in rpm	500	60
Maximum speeds in rpm	200,000	40,000
Amalgam polishing		•
Root treatment – NiTi		•
Removal of deep caries		•
Removal of caries	•	•
Preparation of temporary crowns and bridges		•
Interdental and subgingival polishing		•
Surplus amalgam removal	•	•
MC Spadden endodontic technique		•
Chrome cobalt balance		•
General finishing in cavity preparation		•
Cutting of retentive grooves	•	•
Ceramic adjustment	•	
Finishing preparation B+C, bevels and ridges	•	•
Finishing preparation cavities, bevels and ridges		•
Occlusal adjustment	•	
Dentine reduction	•	•

# CONTRA-ANGLES UNFAILING PRECISION



Part of a long tradition of excellence, Bien-Air contra-angles have Dualook dual multi-strand optical glass conductor lighting, three separate Accu-Spray water/air sprays that ensure perfect nebulisation, as well as the ultra-precise Accu-Chuck tightening and drive technology. The latest developments in Bien-Air contra-angles incorporate a new shaft and gear system mounted on pre-stressed ball bearings. This offers vibration-free transmission and reduces energy loss. These Bien-Air shaft and gear systems simultaneously provide outstanding smoothness and improved sensitivity. For your comfort and that of your patient.

Thanks to the exceptionally ergonomic design of the Bien-Air 20:1 L Micro-Series implantology contra-angle, the word 'comfort' takes on a whole new meaning. It has an irrigation system which is internal to the instrument – a world first. So your grip is not impeded by the irrigation line.

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The jet of physiological liquid is projected onto the bur shaft itself, providing perfect cooling, particularly when using implant guides for insertions. The CA 20:1 has the world's smallest head and is the lightest on the market. In addition, its shafts and gears are machined in stainless steel with high resistance to saline solutions.







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The PM 1:2 straight handpiece is ideal for wisdom tooth extraction. It has been designed to withstand the considerable stresses resulting from repeated lateral pressure, while maintaining exceptional precision. A tooth can be cut rapidly and the temperature generated on contact remains low. Speed, comfort and precision are assured.



## STRAIGHT HANDPIECES OUTSTANDING DURABILITY

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The latest generation of handpieces are the result of our ongoing research and development work. They are designed to withstand the stresses resulting from repeated lateral pressure, while maintaining exceptional precision. You will also appreciate the absence of vibration, their quiet operation and their tried and tested bur locking system.

# TECHNICAL DATA

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## CA 1:5 L Micro-Series

Type	Contra-angle with internal spray, anti-retraction valve
Ratio	1:5 (speed increasing factor of 5)
Coupling	Compatible with Micro-Series
Locking system	Push-button bur locking with anti-heating system
Bur dimension	Bur shank Ø 1.6 mm
Light	Multi-strand optical glass conductor light
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref.	1600690-001

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## CA 1:1 L Micro-Series

Type	Contra-angle with internal spray, anti-retraction valve
Ratio	1:1 (direct)
Coupling	Compatible with Micro-Series
Locking system	Push-button bur locking
Bur dimension	Bur shank Ø 2.35 mm
Light	Multi-strand optical glass conductor light
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref.	1600691-001

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## CA 20:1 L Micro-Series / CA 20:1 L KM Micro-Series

Type	Contra-angle with internal spray
Ratio	20:1 (speed reducing factor of 20)
Coupling	Compatible with Micro-Series
Locking system	Push-button bur locking
Bur dimension	Bur shank Ø 2.35 mm
Light	Multi-strand optical glass conductor light
Cleaning/sterilisation	Thermal washer/steam autoclave up to 134°C (273°F)
CA 20:1 L Micro-Series ref.	1600692-001
CA 20:1 L KM Micro-Series ref.	1600786-001

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## PM 1:1 Micro-Series

Type	Straight handpiece with internal spray
Ratio	1:1 (direct)
Coupling	Compatible with Micro-Series
Locking system	Locking ring
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref.	1600693-001

## CA 1:5 L / CA 1:5

Type	Contra-angle with internal spray, anti-retraction valve
Ratio	1:5 (speed increasing factor of 5)
Coupling	E-type as per ISO 3964
Locking system	Push-button bur locking with anti-heating system
Bur dimension	Bur shank Ø 1.6 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref. CA 1:5 L	1600386-001
Light	Multi-strand optical glass conductor light
Ref. CA 1:5	1600325-001



## CA 1:1 L / CA 1:1

Type	Contra-angle with internal spray, anti-retraction valve
Ratio	1:1 (direct)
Coupling	E-type as per ISO 3964
Locking system	Push-button bur locking
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 134°C (273°F)
Ref. CA 1:1 L	1600384-001
Light	Multi-strand optical glass conductor light
Ref. CA 1:1	1600424-001



## CA 10:1 L / CA 10:1

Type	Contra-angle with internal spray
Ratio	10:1 (speed reducing factor of 10)
Coupling	E-type as per ISO 3964
Locking system	Push-button bur locking
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 134°C (273°F)
Ref. CA 10:1 L	1600385-001
Light	Multi-strand optical glass conductor light
Ref. CA 10:1	1600425-001



## CAP 15:1 Prophy

Type	Contra-angle without light or spray, screw or clip cup interchangeability
Ratio	15:1 (speed reducing factor of 15)
Cleaning/sterilisation	Thermal washer/steam autoclave up to 134°C (273°F)
Ref.	1600290-001



## PMP 10:1 Prophy

Type	Handpiece without light or spray, for standard disposable heads
Ratio	10:1 (speed reducing factor of 10)
Cleaning/sterilisation	Thermal washer/steam autoclave up to 134°C (273°F)
Ref.	1600289-001





### CA 20:1 L / CA 20:1 L KM / CA 20:1

Type	Contra-angle with internal irrigation
Ratio	20:1 (speed reducing factor of 20)
Coupling	E-type as per ISO 3964
Locking system	Push-button bur locking
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
CA 20:1 L ref.	1600598-001
CA 20:1 L KM ref.	1600785-001
Light	Multi-strand optical glass conductor light
Ref. CA 20:1	1600632-001



### PM 1:1 / PM 1:1 external irrigation

Type	Straight handpiece
Ratio	1:1 (direct)
Coupling	E-type as per ISO 3964
Locking system	Locking ring
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref. PM 1:1	1600383-001
Irrigation	Internal spray
Ref. PM 1:1 external irrigation	1600052-001
Irrigation	Interchangeable sleeves with or without irrigation tube



### PM 1:2 external irrigation

Type	Straight handpiece with external irrigation, sleeve with irrigation tube, Bur Guard sterile sleeve
Ratio	1:2 (speed increasing factor of 2)
Coupling	E-type as per ISO 3964
Locking system	Locking ring
Bur dimension	Bur shank Ø 2.35 mm
Cleaning/sterilisation	Thermal washer/steam autoclave up to 135°C (275°F)
Ref.	1600436-001



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