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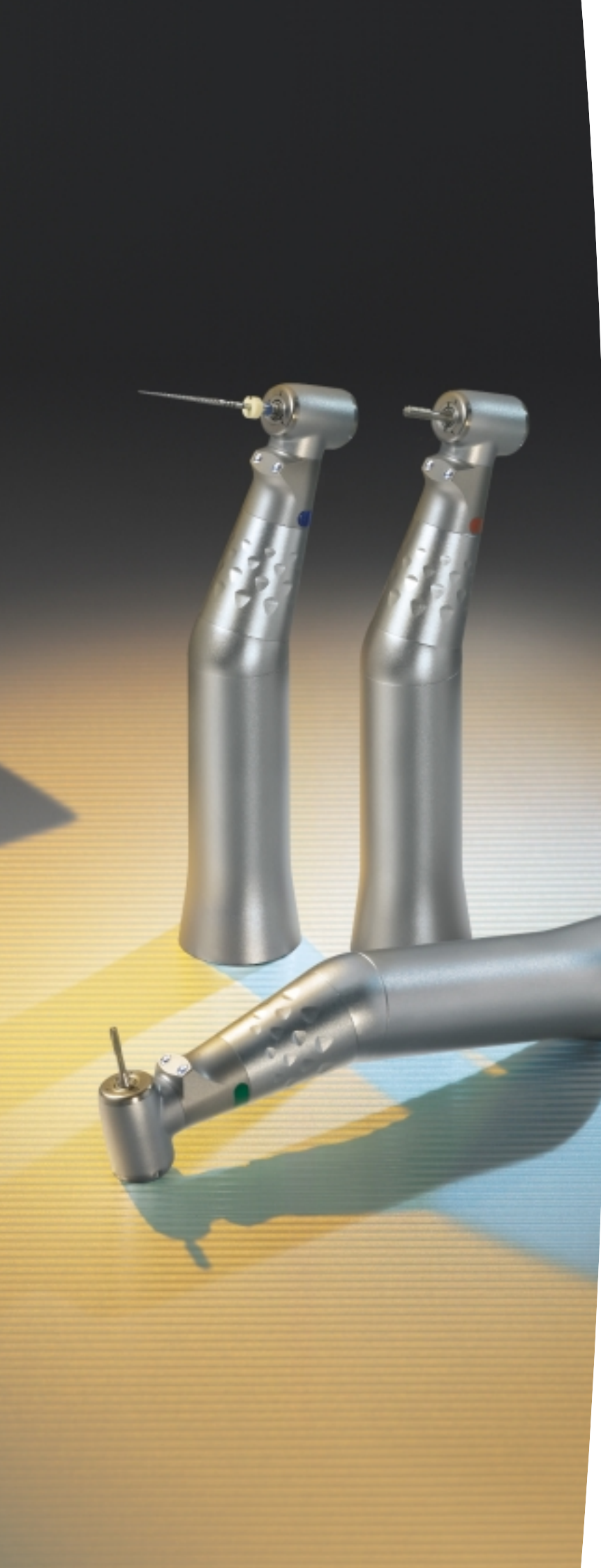
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**Bien Air**<sup>+</sup>  
Dental

Dental Instruments



### High-precision contra-angle handpieces

The three Bien-Air contra-angles can cover most dental practitioners' requirements. Driven by the MX or MC3 motor and controlled by a high-tech microprocessor-based electronic control system, their speed can vary smoothly, depending on their transmission ratio, from 2 rpm to 200,000 rpm.

These contra-angle handpieces are available in versions with internal or external spray, with or without light. Their new pearl grip profile offers easy maintenance.

The contra-angle handpieces with light are fitted with two very rugged monobloc optical glass rods, specially designed to reduce the tool's shadow on the tooth to a minimum. Sterilisation in steam autoclave up to 134°C (275°F).

### Contra-angle handpieces with or without light



CA 1:5 L (light)  
REF 1600386-001  
Speed increasing factor of 5  
Speeds from 500 to 200,000 rpm\*



CA 1:1 L (light)  
REF 1600384-001  
Transmission ratio 1:1  
Speeds from 100 to 40,000 rpm\*



CA 10:1 L (light)  
REF 1600385-001  
Speed reducing factor of 10  
Speeds from 10 to 4,000 rpm\*

Technical data	
Type	Contra-angle handpiece with internal spray and light
Chuck mechanism	Push button with patented anti-heating system for CA 1:5 L
Burs / As per ISO Standard 6360/1	CA 1:5 L ø 1.6 mm / type 3 - CA 10:1 L and CA 1:1 L ø 2.35 mm / type 1
Spray	3 sprays / separate air and water for optimum cooling
Anti-retraction valve	Check valve system, in the handle of CA 1:5 L and CA 1:1 L
Light	Via 2 monobloc optical glass rods



CA 1:5  
REF 1600325-001  
Speed increasing factor of 5  
Speeds from 500 to 200,000 rpm\*



CA 1:1  
REF 1600424-001  
Transmission ratio 1:1  
Speeds from 100 to 40,000 rpm\*



CA 10:1  
REF 1600425-001  
Speed reducing factor of 10  
Speeds from 10 to 4,000 rpm\*

Technical data	
Type	Contra-angle handpiece with internal spray, without light
Chuck mechanism	Push button with patented anti-heating system for CA 1:5
Burs / As per ISO Standard 6360/1	CA 1:5 ø 1.6 mm / type 3 - CA 10:1 and CA 1:1 ø 2.35 mm / type 1
Spray	3 sprays / separate air and water for optimum cooling
Anti-retraction valve	Check valve system, in the handle of CA 1:5 and CA 1:1



CA 1:1 ext spray  
REF 1600200-001  
Transmission ratio 1:1  
Speeds from 100 to 40,000 rpm\*



CA 30:1 ext spray  
REF 1600284-001  
Speed reducing factor of 30  
Speeds from 3 to 1,300 rpm\*

Technical data	
Type	Contra-angle handpiece with external spray, without light
Chuck mechanism	Push button
Burs / As per ISO Standard 6360/1	ø 2.35 mm / type 1
Irrigation system	External spray
Removable irrigation set	1500431-010 comprising 10 parts

General data	
Coupling	E standard as per ISO 3964
Sterilisation	In steam autoclave up to 134°C (275°F)
Cleaning	In thermal washer

\*values calculated with MX micromotor, variable depending on the control unit used.

## Endodontic operations with NiTi instrument and 1:1 contra-angles



Reduction in the number of instruments

Thanks to the unique performance of Bien-Air motor & control systems, two contra-angles are now adequate to cover most dental operations, including NiTi endodontics. With CA 1:1 and CA 1:5, depending on the control unit, profit from a speed range of 20 to 200,000 rpm. This remarkable breakthrough reduces the number of instruments needed in the surgery.

### Examples of operations possible with 2 Bien-Air contra-angles

Application	CA 1:5	CA 1:1
Amalgam Polishing		•
Root Canal Treatment - NiTi		•
Pin placement		•
Deep Caries Removal		•
Caries Removal	•	•
Bone Surgery		•
Pin Hole Drilling		•
Temporary Crown & Bridge Prep.	•	•
Gold and Microfil Polishing		•
Gross Caries Removal	•	•
Interdental and Subgingival Polishing		•
Amalgam Overhang Removal		•
MC Spadden Endo Technique		•
Chrome Cobalt Adjustment		•
General Cavity Prep. Finishing		•
Retention Groove Cutting	•	•
Porcelain Adjustment	•	•
Final C+B Prep. Finishing Bevels + Margins	•	•
Cavity Prep. Finishing Bevels + Margins	•	•
Occlusal Adjustment	•	
Dentin Reduction	•	
Tooth Sectioning	•	
Bulk Enamel Reduction	•	
Instrument speed ranges in rpm	100 - 200,000	20 - 40,000

## Straight handpieces

Our development efforts have led to the production of near silent, vibration-free handpieces, including the new "shaft and gear" system, mounted on pre-stressed ball bearings, which favours transmission and also provides smooth running and improved sensitivity. This comfort is not perceived just by you, but is also appreciated by the patient.

### Handpiece PM 1:2

With its elongated, tipped head, the 1:2 handpiece is the ideal instrument for work in relatively inaccessible places such as the molar region. Its optimised ball bearing system is specially designed to neutralise side forces and enables complicated wisdom tooth sectioning to be performed without overheating of the handpiece.



PM 1:1

REF 1600383-001

Transmission ratio 1:1

Speeds from 100 to 40,000 rpm\*

Technical data

Type Straight handpiece with internal spray

Spray Single, internal

Surface New pearl grip profile, easy maintenance



PM 1:1 ext spray

REF 1600052-001

Transmission ratio 1:1

Speeds from 100 to 40,000 rpm\*

Diamond-shaped grip profile

Technical data

Type Straight handpieces with internal spray

External spray On removable sleeve

Removable sleeves With or without spray hose, supplied with each instrument

Accessories

REF 1500552-001 Sleeve with spray REF 1500567-001 Sleeve with spray

REF 1500003-001 Sleeve without spray REF 1500568-001 Sleeve without spray

General data

Coupling E standard as per ISO 3964

Bur change With locking ring

Burs ø 2.35 mm / type 2

Sterilisation In steam autoclave up to 134°C (275°F)

Cleaning In thermal washer

\*values calculated with MX micromotor, variable depending on the control unit used.



PM 1:2

REF 1600436-001

Speed increasing factor of 2

Speeds from 200 to 80,000 rpm\*

New pearl grip profile, easy maintenance

Technical data

Type Straight handpieces with internal spray

External spray On removable sleeve

Removable sleeves With or without spray hose, supplied with each instrument

Accessories

REF 1500552-001 Sleeve with spray REF 1500567-001 Sleeve with spray

REF 1500003-001 Sleeve without spray REF 1500568-001 Sleeve without spray

General data

Coupling E standard as per ISO 3964

Bur change With locking ring

Burs ø 2.35 mm / type 2

Sterilisation In steam autoclave up to 134°C (275°F)

Cleaning In thermal washer



### Dental prophylaxis made easy

With thorough prophylaxis, we can ensure long-term preservation of teeth and thus improve the quality of life.

Our prophylaxis instruments are characterised by their ergonomics, flexibility and long service life – our personal contribution to your quality of life.

**Our personal contribution to your finances**  
The unique, robust metal construction of the power unit and ball bearings means that the prophylaxis instruments are extremely resistant to sterilisation and are sealed against the ingress of abrasive cleaning pastes.

This guarantees an extremely long service life for the instruments.

**Our personal contribution to your flexibility**  
The prophylaxis instruments – like all our straight and contra-angle handpieces – are fitted with the ISO E standard universal coupling for easy connection. This is regardless of whether you use a conventional motor or have already switched to a powerful, low-maintenance MX motor with a guaranteed constant speed of 100 rpm or higher.

Whether you prefer a snap-on, screw-on or disposable system, we have a solution for all versions.

## Prophylaxis instruments



CAP 15:1

REF 1600290-001

Transmission ratio	Speed reducing factor of 15
Type	Prophylaxis contra-angle handpiece
Speed range	7 - 2,600 rpm*
Accessories	Clip-on or screw-on caps and brushes



PMP 10:1

REF 1600289-001

Transmission ratio	Speed reducing factor of 10
Type	Straight prophylaxis handpiece
Speed range	10 - 4,000 rpm*
Accessories	Disposable straight heads of synthetic material
	Set of 100 straight heads REF 1100056-100

#### General data

Coupling	E standard as per ISO 3964
Surface	Diamond-shaped grip profile, for ideal grip even without gloves
Sterilisation	In steam autoclave up to 134°C (275°F)

\*values calculated with MX micromotor, variable depending on the control unit used.



### Bien-Air maintenance products

Bien-Air offers you easy-to-use, effective products, specially designed for the entire range of its instruments and equipment. Regular use of the appropriate products will ensure that the instrument runs well during each operation over many years.



#### Cleaning with Spraynet®

For internal and external cleaning

- Boxes, hoses, instruments

REF 1600036-006 Supplied in boxes of six 500-ml units

#### Lubrication with Lubrifiuid®

- Straight and contra-angle handpieces

- Aquilon 830 air motors

- BASCH electric motor

- Ball-bearing turbines

REF 1600064-006 Supplied in boxes of six 500-ml units

#### Essential recommendation for perfect operation

Our high-precision instruments run at high speed. To ensure perfect operation over a long lifetime, it is essential to comply with the following instructions.

#### Procedure:

1. Follow the instructions supplied with each instrument
2. Clean with Bien-Air Spraynet
3. Lubricate with Bien-Air Lubrifiuid
4. Sterilisation in autoclave



### Bien-Air - An impressive family history

David Mosimann, an inventive and entrepreneurial precision mechanic with a passionate dedication to his trade and meticulous workmanship, decided to set up his own business in 1948. He started a wonderful adventure by founding Bien-Air SA in 1959, and since then the firm has constantly expanded. David Mosimann's enthusiasm was inherited by his son Vincent, who took up the banner with as much energy as his father. Bien-Air, established in Biel, now has more than 400 employees, in Switzerland and throughout the world.

### Over four decades of prosperity

To meet ever-growing demand, Bien-Air has constantly enlarged its product range. After dental instruments and laboratory equipment, Bien-Air moved into ENT surgery and, more recently, implantology and microsurgery with various technologies. These new businesses are likewise areas in which reliability and safety are dominant features. To implement this corporate policy, Bien-Air in 1974 opened a production branch in Saignelégier (Jura region of Switzerland). In 1998 the Biel and Saignelégier buildings were enlarged. These changes enabled internal flows to be optimised. The new premises increased staff comfort and efficiency at Bien-Air, which has now celebrated its 40th anniversary.

### Quality first

Determined to meet its customers' needs, the company has always invested heavily to enhance reliability. Modern machining techniques and stringent controls at each stage of manufacturing and assembly are the key to impeccable product quality, and products are marketed by a global distribution network. Management, supported by highly qualified personnel, has applied this strict policy in every department. The results were soon apparent: Bien-Air Dental SA is now certified compliant with ISO 9001/EN 46001 standards and EEC directive 93/42.

### Global Service

Bien-Air Group's eight subsidiaries in Europe, Asia and the United States are the backbone of a well-oiled distribution network. Local inventory ensures very short delivery times. Constantly attentive to the market and its representatives, the company is able to design and supply instruments and equipment meeting the specific requirements of each customer. More than 130 technicians provide rapid, efficient, on-the-spot customer service worldwide. Personalised advice and support, training and telediagnosics are already helping our customers achieve greater efficiency.