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Micromotors and control systems

Bien-Air micromotors - Performance allied with long life

100% Swiss, 100% Bien-Air

The head office of Bien-Air Dental is located in Biel, Switzerland. Two other production facilities are located in the heart of «Watch Valley», a region whose watchmaking, technical and microtechnology expertise has been world famous for several centuries. Bien-Air designs and produces all its dental medicine equipment and instruments in this region of high-precision technology and research.

Controls and sterilisable brushless motors

In recent years, when only implantology and microsurgery required this type of motor, the CHIROPRO control system and its powerful BASCH motor met these needs perfectly. In 2004, Bien-Air released the innovative MX Micromotor and its OPTIMA MX and DMX control systems. These controls offer, among other features, the functions of torque control and reversal of the direction of rotation as required for NiTi endodontics. Its design, its power and its broad range of applications have made the MX motor the No. 1 selling Micromotor in the world.

The MX and BASCH motors from Bien-Air, world leader in electric micromotors, give new meaning to the expression "top-of-the-range". Extraordinarily reliable and of unbeatable quality, 100% Swiss Made, they are in addition the only motors to be sterilisable without protection.

Control system and Electric motor with brushes

The speed, power and service life of electric motors being directly related to the qualities of their electronic control system, Bien-Air has designed the PLMP 021 to drive the MC3 and MC2 motors smoothly. It adapts to all chairs fitted with an air-powered or electric pedal and delivers the power required for the motor to provide maximum torque from 20 to 40,000 rpm.

Air micromotors

Easy-to-use, reliable and very powerful at low speeds, quiet, with quick-connect coupling, sterilisable, practically maintenance-free - these are the great qualities of the Aquilon® air motors, equipping an ever-growing number of dental surgeries provided with an air-powered system.

ISO coupling

All our motors are fitted with the E standard coupling as per ISO 3964.

BASCH
High-performance, sterilisable, brushless micromotor for implantology, without light. Speed range: 500-40,000rpm



MX
World leader

MX brushless micromotor, sterilisable, with light
Speed range:
100 - 40,000 rpm
Unique quick-connect rotary coupling on 4VX hose



MC3
Brush micromotor, with or without light
Speed range:
20-40,000 rpm



MC2 Isolite 300
Brush micromotor, with light
Speed range:
60-40,000 rpm



Aquilon
Air micromotor, without light, with internal or external spray. Sterilisable. Forward and reverse operation and variable speed. Speed range: 5000-20,000 rpm
Quick rotating connection on Unifix 3- or 4-hole coupling



MC2 IR
Brush micromotor, without light
Speed range:
60-40,000 rpm





MX[®]

World leader

Brushless, sterilisable micromotor with unique quick-connect coupling

The MX motor, 100% Swiss Made, is the micromotor of superlatives. It is so reliable that Bien-Air can provide it with an unconditional 24-month guarantee! Powerful at all speeds, efficient from 100 to 40,000 rpm, extremely quiet, operating vibration-free and insensitive to fluids, it needs practically no maintenance, meaning longer life.

Another advantage: its quick-connect 360° rotary coupling offers fast interchangeability. Its clever construction has enabled a reduction in the total micromotor+coupling length, offering improved manoeuvrability.

Managed by the Optima MX microprocessor control system, it can be used for a wide range of operations.

MX Micromotor

Type	Brushless, with internal spray, sterilisable
REF 1600375-001	MX Micromotor
REF 1600387-001	4VX hose, with quick-connect coupling rotating through 360°
REF 1700428-001	B4VX hose, with quick-connect coupling rotating through 360° and system with bayonet connector on unit side

MX controls - To manage the most powerful brushless micromotor in the world



Advantages that count:

- Broad speed range of the MX micromotor: from 100 to 40,000 rpm
- High speed mode for restorative operations
- Low speed mode for NiTi endodontics: automatic reversal of the direction of rotation when the selected torque is reached, automatic return to clockwise rotation (after an adjustable time-out)
- Easy navigation system
- Major functions that can be modified at all times:
- Selection of one of the 40 programmes
- Actual instrument speed
- Handpiece ratio
- With or without lighting
- Light intensity.

OPTIMA MX INT

OPTIMA MX INT takes the form of a control box to be attached to the unit and an integrated microprocessor (DMX). The Basic versions do not offer the endodontic functions.



OPTIMA MX INT kit (Standard) - with endodontic options

Control system to be attached to the unit and microprocessor to be integrated

- REF 1700258-001 Kit with 1 motor, without converter
- REF 1700270-001 Kit with 1 motor and transformer **
- REF 1700275-001 Kit of 1 motor and converter *
- REF 1700259-001 Kit of 2 motors and converter *

OPTIMA MX INT kit (Basic) - without endodontic options

Control system to be attached to the unit and microprocessor to be integrated

- REF 1700260-001 Basic kit with 1 motor
- REF 1700271-001 Basic kit with 1 motor and transformer **

DMX

With DMX, your unit's control system manages the MX micromotor. Your distributor-installer is able to upgrade your electric or air-powered unit to the leading MX technology. You can thus have a high-performance instrument with your unit's customary control system. The Basic versions do not offer the endodontic functions.



DMX-S kit (Standard) - with endodontic options

Microprocessor to be integrated in the unit

- REF 1700230-001 Kit with 1 motor and converter *
- REF 1700241-001 Kit with 1 motor, without converter
- REF 1700232-001 Kit with 2 motors and converter *

DMX-B kit (Basic) - without endodontic options

Microprocessor to be integrated in the unit

- REF 1700231-001 Kit with 1 motor and converter *
- REF 1700245-001 Kit with 1 motor, without converter
- REF 1700233-001 Kit with 2 motors and converter *

* 24Vac/24Vdc-32Vdc converter ** 80-240 Vac transformer



CHIROPRO - Implantology control system

CHIROPRO brings together all the qualities that make up Bien-Air's excellence. With its large backlit display (in seven languages) and intuitive programming, and with a powerful motor sterilisable with its cable, it is extremely easy to use and completely reliable. Its solid design, cable shielded against electromagnetic radiation and gas-tight pedal make it a tough device, meeting the most stringent international safety standards.

Advantages that count:

- 8 programmes which can be modified even in use
- Choice of 31 handpiece ratios, ranging from 1000:1 to 1:6
- Peristaltic pump delivery adjustable from 15 to 130 ml/min.
- Capability for connecting 2 BASCH motors
- Control system of insulation class I type B and degree of protection IP40
- Pedal degree of protection IPx8, as per IEC 529 and APG in accordance with EN 60601-1.

BASCH - Implantology micromotor, brushless, sterilisable with its cable

The BASCH micromotor, designed for implantology, is nothing less than the most powerful motor on the market. Efficient and self-ventilated, it offers a rotation speed ranging from 500 to 40,000 rpm. It is brushless and sterilisable with its cable. Managed and configured by the CHIROPRO control system, it gives optimum performance. 100% Swiss Made.

BASCH Micromotor

Type	Brushless, with internal spray, sterilisable
REF 1600076-001	Sterilisable BASCH micromotor
REF 1600342-001	Sterilisable motor cable
REF 1700074-001	BASCH micromotor + cable set



CHIROPRO table-top control module

Set comprises:

- 1 CHIROPRO control system with integral peristaltic pump
- 1 Basch micromotor
- 1 black cable for Basch micromotor
- 1 sealed multifunction pedal, with 2 or 4 buttons
- 1 sterilisable support for instrument
- 1 bracket
- 10 irrigation lines with choice of 2 delivery ranges
- 10 clips



Sets with 1 BASCH motor

Version with 2-button pedal

for 230 Vac	REF 1700113-001
for 115 Vac	REF 1700114-001
for 100 Vac	REF 1700115-001

Version with 4-button pedal

for 230 Vac	REF 1700206-001
for 115 Vac	REF 1700207-001
for 100 Vac	REF 1700208-001





MC3 and MC2 micromotors, brush type

These micromotors offer 100% Swiss Made quality at a very attractive price. Powerful and vibration-free from 20 to 40,000 rpm, they are ideally managed by the PLMP 021 microprocessor control system. Supply via 4VR 400 or 4VLM hoses for MC3. Hoses with rotating or fixed connector for MC2.

The flagship of the range, MC3, with or without light, is appreciated for its performance, its endurance and its light weight. Its hose with a connector rotating through 400° offers great freedom of movement.

MC3 Micromotors

Type	Brush, with internal spray
Speeds	20 to 40,000 rpm
REF 1600077-001	MC3 LK with light
REF 1600071-001	MC3 IR without light
REF 1600397-001	4 VR 400 hose, with rotating connector

MC2 Micromotors

Type	Brush, with internal spray
Speeds	60 to 40,000 rpm
REF 1600078-001	Isolite® 300 with light
REF 1600073-001	MC2 IR without light
REF 1600298-001	Hose with rotating connector, for Isolite® 300
REF 1600120-001	Hose with fixed connector, for MC2 IR



PLMP 021 - Control system for MC3 and MC2 micromotors

Top-of-the-range microprocessor technology offering maximum torque from 20 to 40,000 rpm. Allows vibration-free rotation without jolts from the lowest speed, in both directions of rotation. 3.5 Vdc power supply for lighting and optional 10-second time-out. Can be easily integrated into all electric or air-powered units due to its small micro-processor control box: (LxHxD) 66 x 51 x 128 mm.



PLMP 021 control system

REF 1600350-001	PLMP 021 microprocessor control
For micromotors	MC2, SR, IR, Isolite® 100 and 300 series, MC3, IR and LK series



PLMP 021 installation kit

REF 1600351-001	Comprising: PLMP 021, 18 m of electric wire, potentiometer, solenoid valve, switch, sticker and fastening clamps
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Aquilon® air micromotors, sterilisable

Aquilon air micromotors offer 100% Swiss Made quality at a very attractive price. They are provided with a ceramic stator which makes maintenance extremely easy and gives them a very long service life. Forward and reverse operation and variable speed from 5000 to 20,000 rpm. Air pressure 3 bar. Quick rotating connection on Unifix 3- or 4-hole coupling. Recommended silicone hose: 4VLM with fixed connector.



Aquilon® 830 (internal spray)

Type	Air motor, sterilisable
REF 1600070-001	Micromotor alone
REF 1700058-001	Micromotor with 3-hole Unifix coupling
REF 1700211-001	Micromotor with 4-hole Unifix coupling

Aquilon® 830 (external spray)

REF 1600362-001	Micromotor alone
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Hoses

REF 1600102-001	4VLM with fixed connector. Grey silicone
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Unifix couplings

Speed and manoeuvrability guaranteed!
All the benefits of quick connection and easy rotation through 360°.
Available in 3- and 4-hole versions.

Bien-Air Dental SA – Your trusted partner



Quality first

Determined to meet its customers' needs, the company has always focused its efforts on improving 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. And the policy has paid off: 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, the United States and Asia 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 thus offer instruments and equipment meeting the specific requirements of each customer. More than 130 technicians worldwide provide fast, efficient, on the spot customer service. Their advice and personalised assistance, plus remote investigation and diagnosis has already helped boost the efficiency of our customers.