



2020

**codent**  
*Let's smile together*



## ABOUT US

Codent's history began in 1985 when Mark Fang opened a dental and surgical instrument development and production centre in Taipei (Taiwan). Several years later, he made the decision to transfer the business to Kaohsiung, the nerve centre of the medical industry in South East Asia. Since then, Codent has continued to specialise in the design, manufacture and distribution of dynamic dental and surgical instruments aiming for excellence in each of its three areas: R&D, Production and Sales.

Considered as the region's pioneer in the dental industry, today Codent is one of the leading companies in the sector in Asia and worldwide. Operating in nearly 100 countries, Codent has cutting-edge infrastructures combining technicality, quality and innovation enabling it to position itself as the perfect partner for the most demanding dentists.

In order to be closer to its customers in the Europe/Middle East/Africa (EMEA) zone, Codent set up a European subsidiary in Jockgrim (Germany), Codent Europe GmbH to develop its regional platform responsible for distribution, technical support, customer service and training.

### **Mark Fang**

Founder (Codent TW Headquarter)

### **IC Fang**

President (Codent TW Headquarter)

### **Bruno LAMOUREUX**

President (Codent Europe)



## **RESEARCH AND DEVELOPMENT**

Codent's design office in Kaohsiung has established itself as one of the most important in Asia in the search for innovative technologies for air turbines, contra-angles, micromotors and surgical devices. Its regular collaborations with design offices in Europe and the United States, its quality standards which are some of the highest on the market and the stringent nature of its specifications in terms of precision and hygiene, guarantee the development of high-level products that match the expectations of the most demanding users. Constantly listening to dentists, Codent continues to innovate and design products suited to their constraints and the specific features of their job.

## **PRODUCTION**

State-of-the-art equipment, the use of high-quality materials and extensive testing means that the Codent range complies with the strictest standards. Codent is ISO 13485 certified.

# Avantages CODENT



## **Durable**

Even after several years of use, the push button chuck and the clamping mechanism retain their holding strength.



## **Titanium**

The handpieces in the Apollo range have a anti-slip titanium coating which increases the durability of the instruments and ensures a comfortable grip.



## **Precision**

The handpieces offer optimal torque enabling practitioners to work with precision for the comfort of their patients.



## **Quiet**

The handpieces in the Apollo range are some of the quietest on the market due to the quality of their ceramic bearings.



## **Optic**

The illumination of the handpieces (up to 32,000 lux) guarantees maximum visibility for practitioners.



## **Sterilization**

The handpieces are designed to be sterilised regularly by autoclaving and to withstand temperatures up to 135°C while remaining durable and efficient.



## **Thermal disinfection**

The option to use a thermal disinfectant to clean and disinfect the handpieces prevents the risk of infection.



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PRECISION  
AND EFFICIENCY



Excellent torque

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Ceramic Bearings

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Quadruple Spray

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Perfect illumination

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Titanium coating

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Lightweight

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## HIGH SPEED AIR TURBINES

Excellent torque and excellent visibility.

Air turbine designed for all applications in restorative and prosthesis treatments.

Designed to feel good in the hand.

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# APOLLO RANGE



APOLLO  
C001

## APOLLO SERIES A6 AIR TURBINES

*four sprays - dual coat titanium coating - ceramic bearings - 2-year warranty*



LED

### MODEL A6L

Standard head - NSK® PTL  
®QUICK coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 420,000 rpm  
Head size: Ø12.4 x H12.9 mm



LED

### MODEL A6KL

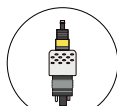
Standard head - KaVo®  
MULTiflex® coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 380,000 rpm  
Head size: Ø12.4 x H12.9 mm



LED

### MODEL A6BL

Standard head - BIEN-AIR® UNIFIX® coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 380,000 rpm  
Head size: Ø12.4 x H12.9 mm



LED

### MODEL A6WL

Standard head - WH® ROTO QUICK® coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 380,000 rpm  
Head size: Ø12.4 x H12.9 mm



## APOLLO SERIES A5 AIR TURBINES

*four sprays - dual coat titanium coating - ceramic bearings - 2-year warranty*



### MODEL A5KL

Small head - KaVo®  
MULTIflex® coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 420,000 rpm  
Head size: Ø11.2 x H12.5 mm



### MODEL A5BL

Small head - BIEN-AIR® UNIFIX® coupling  
Burs: 1.6 - Cellular glass optic  
Rotation: 420,000 rpm  
Head size: Ø11.2 x H12.5 mm



## APOLLO SERIES A45 AIR TURBINES

*four sprays - dual coat titanium coating - ceramic bearings - 2-year warranty*



### MODEL A45KL

45° head - KaVo® MULTIflex® coupling

Burs: 1.6 - Cellular glass optic

Rotation: 450,000 rpm

Head size: Ø11 x H13.5 mm





## Couplings compatible with all optic and non-optic air turbines



### Q6CM- LED COUPLING

Compatible with NSK® PTL® instruments  
6-holes - LED illumination



### Q6K- LED COUPLING

Compatible with KaVo® MULTIflex® instruments  
6-holes - LED illumination














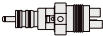





### Q6KW- LED COUPLING

Compatible with KaVo® MULTIflex® instruments  
6-holes - LED illumination - Water controller



# Instruments compatible with couplings

	A6L	Q6CM-LED	
	A6KL	Q6K-LED	
	A5KL	Q6KW-LED	
	A45KL		
	A6WL	W&H* Coupling	
	A6BL	Bien air Coupling*	
	A5BL		
	APJ BA	Bien air Coupling*	
	APJ WH	W&H Coupling*	
	APJ KV	Q6K-LED Q6KW-LED	
	APJ NM	Q6CM-LED	

\* The Bien-Air and W&H couplings are cited as examples but not marketed by Codent-Europe GmbH





TECHNOLOGY  
AND FUNCTIONALITY



Exceptional durability

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Excellent illumination

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DUAL COAT

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Lightweight

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# CONTRA-ANGLES AND HANDPIECES

Powerful and durable for precision work, an ergonomic design making it feel good in the hand and reducing vibrations so as to guarantee daily comfort for both doctor and patient.

# RANGE APPOLO



## APOLLO SERIES CONTRA-ANGLES

*both cellular glass optic and no cellular glass optic , Dual Coat titanium coating*



### MODEL A65L

1:5 Increasing by 5

Quattro spray - Cellular glass optic - Burs: 1.6

Head size: Ø9.9 H 12.5 - Max. speed: 200,000 rpm

### MODEL A65

1:5 Increasing by 5

Quattro spray - No cellular glass optic - Burs: 1.60

Head size: Ø9.9 H 12.5 - Max. speed: 200,000 rpm



### MODEL A61L

1:1 Direct drive

Single spray - Cellular glass optic - Burs: 2.35

Head size: Ø9.9 H 12.5 - Max. speed: 40,000 rpm

### MODEL A61

1:1 Direct drive

Single spray - No cellular glass optic - Burs: 2.35

Head size: Ø9.9 H 12.5 - Max. speed: 40,000 rpm



## APOLLO SERIES CONTRA-ANGLES

*both cellular glass optic and no cellular glass optic, Dual Coat titanium coating*



### MODEL A16L

16:1 reduction by 16

Single spray - Cellular glass optic - Burs: 2.35

Head size: Ø9.6 H 11.8 - Max. speed: 2,500 rpm (for endodontic lime)

### MODEL A16

16:1 reduction by 16

Single spray - No cellular glass optic - Burs: 2.35

Head size: Ø9.6 H 11.8 - Max. speed: 2,500 rpm (for endodontic lime)



### MODEL A11L

1:1 straight handpiece, direct drive

Single spray - Cellular glass optic

Burs: 2.35 - Max. speed: 40,000 rpm

### MODEL A11

1:1 straight handpiece, direct drive

Single spray - No cellular glass optic

Burs: 2.35 - Max. speed: 40,000 rpm





## APOLLO SERIES SURGICAL CONTRA-ANGLES

*Cellular glass optic , non-Cellular glass optic , dual coat titanium coating, 2-year warranty*



### MODEL A20L

20:1 reduction internal/external implant dual irrigation system  
Max. torque 80 Ncm - Cellular glass optic  
Burs: 2.35; head size Ø9.9 H 11.8 min.

### MODEL A20

20:1 reduction internal/external implant dual irrigation system  
Max. torque 80 Ncm - No cellular glass optic  
Burs: 2.35 head size Ø9.9 H 11.8 min

- Body coated in dual coat titanium
- Push button
- Max. torque 80 Ncm
- Max. speed 2,000 rpm
- Suitable for all Type E surgery motors



# Oral hygiene

## Prophylaxis.

Apollo prophy Jet is an air powered polishing system in the form of a straight handpiece connected to a coupling. Light and easy to clean, Apollo prophy Jet guarantees optimal results when removing stains and is used with Magic Pearl prophylaxis powder.





The 80mm attachment, set at a 60° angle, is star-shaped so the 4 sprays provide the necessary precision to treat hard to reach areas.



The handpiece, which can be autoclaved, is connected to a tank.



The tank has 8 holes guaranteeing perfect air circulation.



### **MODEL APJ KV**

APOLLO Prophyl Jet KaVo® MULTIflex® coupling



### **MODEL APJ NM**

APOLLO Prophyl Jet NSK® PTL® QUICK coupling



### **MODEL APJ WH**

APOLLO Prophyl Jet W&H® Roto Quick® coupling

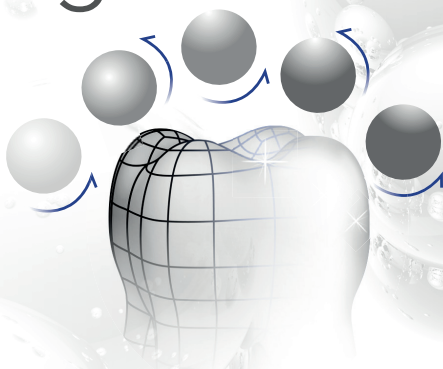


### **MODEL APJ BA**

APOLLO Prophyl Jet Bien-air® Unifix® coupling



# Magic Pearl



For around ten years, MAGIC PEARL powder has proved to be a reliable and non-aggressive prophylaxis powder. The polishing effect of the grains provides gentle effective cleansing. Today, we have improved MAGIC PEARL yet further.



## **Micro-beads 50 to 60um**

Non-abrasive mechanical tooth cleaning



## **Respect for the enamel**

Enamel protection, tested in a professional laboratory.



## **Treatments**

Prophylactic and gum disease treatments



## **pH Stabilisation**

Reduces oral acidity, neutralises pH within 10 days.



## **Effectiveness**

Significant increase in whiteness.



## **Limits gingival haemorrhages**

Significant coagulant effect, especially in the gums during subgingival treatment.

# PROPHYLAXIS POWDER

## Developed and tested by dentists.

Magic Pearl powder has spherical grains which safely eliminate stains, biofilm and tartar without causing a risk to the tooth enamel and gums. Its calcium-carbonate based composition helps to minimise cleaning of your air polisher.

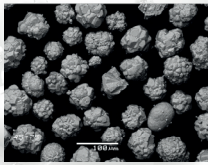
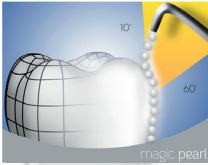
## Approved by European and international standards.

The powder reduces the acidity of oral fluids and prevents the development of bacteria by impeding the formation of biofilm. This product is ideal for treating the teeth of patients sensitive to sodium bicarbonate or who suffer from high blood pressure.

## Non-abrasive, non-invasive.

The very low hardness\* of the  $\text{CaCO}_3$  particle is less than the hardness of the dentine, so it does not damage the enamel while the hardness of other powders ( $\text{NaHCO}_3$ ) has an abrasive effect on the tooth surface.

\*Source: Friedrich Mohs' scale (1-10) measuring the hardness of minerals



## MP-1

Magic Pearl Prophylaxis

Box of powder of 4x300g bottles

# SPEED AND POWER







# ELECTRIC MOTOR





# iM100

## Brushless and LED Electric motor set

### iM100

brushless optic electric micromotor set  
equipped with a control box, adaptor and cable  
E-motor type connection - LED light

#### Im100 - Brushless electric motor

- Max. Torque: 3.4 Ncm
- Max. speed: 2,000 rpm - 40,000 rpm
- Weight: 87g
- Light: LED

#### Control Box

- Adaptor: AC 100-240V
- Voltage: DC 32V 50/60Hz
- Output power: 120W max.
- Dimensions: D150mm x W125mm x H56mm
- Weight: 500g
- Function: 2 memory modes, reverse rotation adjustment, three speeds



#### Air

C4-hole cable to connect the dental chair to the control box



#### Electricity

Connection cable from the micromotor to the control box



#### Activation

Connect the power cable to the power supply





### **iM100 MOTOR**

Electric motor  
E-Motor type, led illumination



### **iM100 CABLE**

Electric motor cable

# iM100 - integrated system

## LED, brushless electric motor and its individual components

### iM100- integrated system

Brushless electric micromotor with a control box E-Motor type, led illumination

- Output power: 24V AC 50/60Hz
- Max. torque: 3.4 Ncm
- Max. speed: 2,000 rpm - 40,000 rpm
- Control box dimensions: W123mm x H63mm



## ELECTRIC MOTOR

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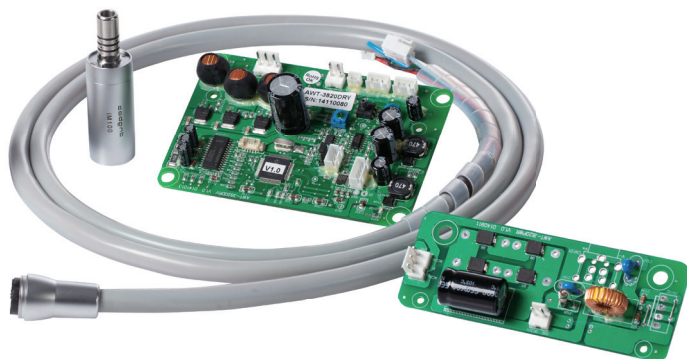
### **iM100 MOTOR**

Electric motor  
E-Motor type, led illumination



### **iM100 CABLE**

Electric motor cable



# ACCESSORIES







### Lubricant

Premium Plus Spray 500ml  
Lubricates & cleans

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### Prophy tip

handpiece with nozzle  
APJ 001

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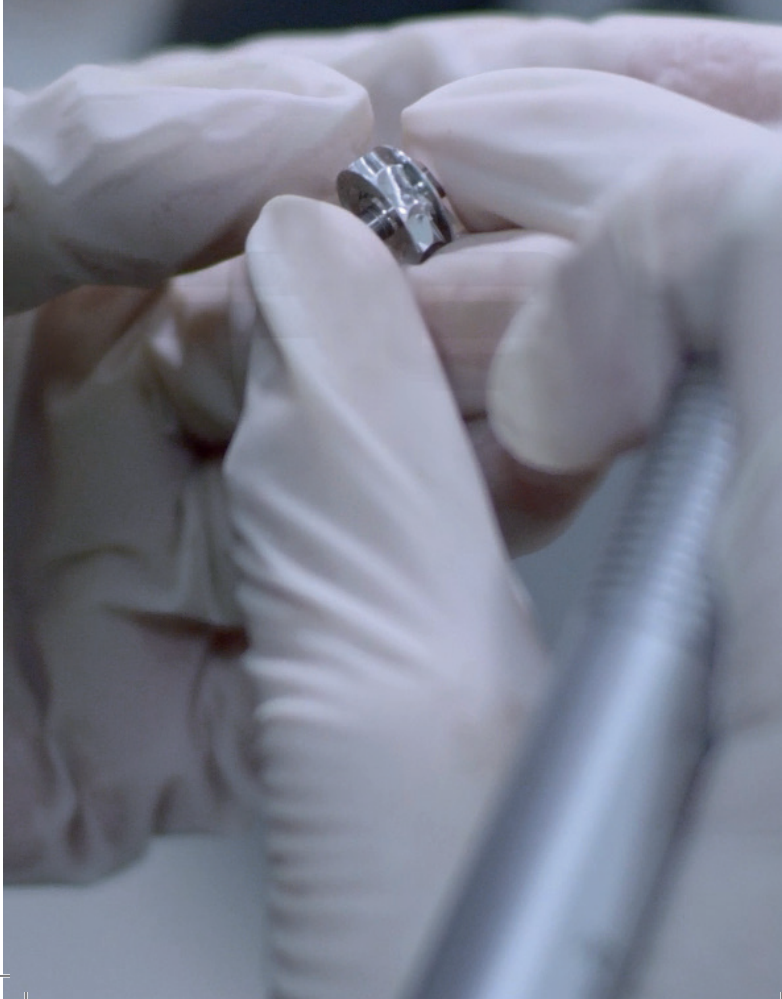


### Cover Prophy

APJ 003

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# SPARE PARTS



## PIÈCES DÉTACHÉES

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*rotor*



### **CCA345**

For Codent A45L / A45 air turbine

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### **CCHPC4**

For Codent A6

Codent Apollo four sprays - Standard head

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### **CCHPZ4**

For Codent A5

Codent appolo four sprays - Small head

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## WARRANTY CONDITIONS

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You have just purchased instruments from the Codent range.

Each Codent product sold is accompanied by a manual for use and maintenance which is in its original packaging, in case the instructions for use of the manual will not be respected, the instrument cannot be taken under guarantee.

The warranty period of the instruments on the range of turbines, contra angles, air or electric motors or other catalog products:

- Contra angle Apollo : 24 months
- Contra angle and Head Apollo Kavo : 12 months
- Turbines Apollo : 24 month , except the turbines des models A4 : 12 months
- Coupling turbines : 12 months
- Oral Hygiene : 12 months
- Air Electric : 12 months
- Spare parts and accessories : 6 months - 12 months

The return of the equipment for a warranty repair request must be accompanied by a copy of the invoice and/or delivery note (serial number is mandatory).

The guarantee will be active within the framework of an adequate use

The guarantee lapses in the following cases:

- which has had a shock and which results in the change of a part or a set of parts.
- Inadequate use
- A sudden disassembly causing additional damage
- lack of maintenance due to excessive wear and tear
- A change of parts made by third parties not accredited by Codent Europe
- Incorrect electrical or air connections or adjustments that may cause breakage

Before any repair of a product out of warranty by Codent Europe, an estimate will be established for acceptance before proceeding with the repair.

### **Codent Europe**

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## NOTES

WORKING TOGETHER

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**eodent**  
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FR TTC