At ANCAR, our working philosophy is very clear: to design the best dental equipment required by professionals. To do this we ground ourselves in 6 values that characterise each one of our creations such as value, ergonomics, technology, design, flexibility and the human touch.

All of these pillars, together with the effort and desire to be the best means that every day we are meeting new challenges and broadening our product range with the most innovative technological advances.

Our inception dates back to 1958, but the year that marks the turning point for ANCAR is 1988, the year we introduced our first dental unit, the Pyrinee model. Back then we could never have predicted, nor imagined the growth and salience that ANCAR would have acquired on the international stage 30 years on.

Getting to this point hasn’t been easy, but guided by values such as determination, patience and humility we have managed to establish ourselves and gain recognition in a demanding and competitive market. Similarly, we have laid the foundations for a brand which is consolidated and valued in 32 countries across Europe, the Middle East, Oceania and the Maghreb.

At present, our range is made up of 40 different models, all of which are manufactured with the best materials whilst paying the utmost attention to every small detail. At ANCAR we are aware of the needs of dental professionals and patients, which is why all of our products are designed to meet all essential requirements.

Thanks to this work methodology we are able to build reliable, durable dental equipment manufactured from quality materials, with a focus on improving ergonomics by using the latest technologies.

Ancar’s success over the course of its 60 year history isn’t down to just one person; everybody deserves the credit! Only true, honest and professional team work is capable of justifying our experience and ensuring our future.
“This is our history, this is our philosophy, this is our commitment.”

Antoni Carles Bosch
General Manager
Series 1

Reliable, Solid and Simple

THE MOST COMPLETE RANGE

The Ancar Series 1 is the intelligent option for dental professionals looking to access all the excellent and intelligent features of a high-quality dental unit with an accessible investment.

It adapts to all dental consultancies or clinics, is well-designed, well-constructed and ready for adaptation offering numerous accessories according to your needs and preferences. Series 1 promises dentists comfort, performance and reliability; and to their patients that important sense of well being.
SD-150

**Elegant functionality**

**Treatment unit**

**Whip arm system**

- Assistant support with two standard suction hoses. 3F syringe, polymerization lamp and intra-oral camera as an option
- Progressive pedal. Electric micromotor control through potentiometer
- Removable, autoclavable, porcelain cuspidor bowl
- Removable cup filler for easier cleaning
- Arm with mechanical compensation and pneumatic brake
- Intuitive and ergonomic "Easy Touch" control panel
- Micromotor reverse selection and scaler power level
- Water unit made of anticorrosive aluminium and with a 70º turn
- "Touch-latch" door system with easy access to the inside
- Side view. Safety on assistant support, backrest and chair base.
SD-175
A “Premium” product of exceptional quality
Treatment unit
Hanging hoses system

Hanging hose version with two trays for small hand instruments including pneumatic brake for better stability.
SD-25

Intelligent decision

Treatment unit with cart

The SD-25 combines the strength and quality of work, which all the Series 1 units offer; it also provides a great versatility while finding useful workspaces where other units cannot access.

The cart’s great mobility (in distance and height) is designed to offer maximum ergonomic adaptability to professionals and thus guarantee a high performance in all interventions.
SD-60

Stylish orthodontics

Orthodontic treatment unit

The SD-60 unit is the simplest but most ingenious way to outfit your office, especially designed for orthodontics practices.

An affordable investment provides an orthodontics unit with the best specifications, quality materials, safety, precision, functionality, ergonomics and hygiene.
A-3200

Designed for right and left-hand users

Ambidextrous treatment unit without cuspidor

ACCESORIES

Lamp column kit
Lamp column kit + instrument tray
Lamp column kit + "self water system" with / without selector valve
Lamp column kit + instrument tray + "self water system" with / without selector valve
Kit columna

Pedal handle with safety retractable spring

Ambidextrous instrument tray. Particularly designed for right and left-hand users.
A-3000

Comfortable for you, comfortable for your patients

Consultation chair

The features of the A-3000 and A-3100 are not exclusive to professionals. With your patients in mind, our aim is to offer them the utmost comfort throughout the treatment.

All units in the Series 1 are more comfortable, thanks to their two types of upholstery: “Standard” and “SOFT EASE”. Its headrest can be adjusted to any height, even for children, allowing for optimum and comfortable working positions. Additionally, all of the positions of both chairs can be adjusted with the pedal. Optionally, an armrest may be added to the right-hand side. They are equipped with safety devices at the base and backrest to avoid unforeseen movements and to guarantee maximum reliability in all treatments.
WE CARE ABOUT YOU
Details that make the difference

Intuitive and ergonomic “Easy Touch” control panel.

Pedal with chair movement control and instrument control using lever, with water and “chipblower”. Electric micromotor control through potentiometer.

Compensated whip-hoses to work with less effort.

Assistant support with two standard suction hoses. Possibility of installing an optional 3F syringe, intraoral camera and polymerizing lamp.

Extractable and autoclavable instrument support.

Series 1
Rotary instrument oil recuperator.

**ALUMINIUM CORE**
Made in light, anticorrosive aluminium alloy.

State-of-the-art, highly robust technical and mechanical solutions.

Optional suction hose selective system.

Main instrument tray and standard auxiliary tray (285x190mm).

Individual water control valve and micromotor (M40) speed selector up to 4,000 RPM (Selective) and up to 40,000 RPM (Global).

Extractable and autoclavable porcelain spittoon bowl.

Removable cup filler for easier cleaning.

Water unit made of anticorrosive aluminium and with 70º turn.

“Touch-latch” door system with easy access to the inside.

Details that make the difference
Personalize the unit to suit you

Series 1

New “self water system”

Independent water supply system for instruments on the equipment.

The equipment’s water circuit is designed in order to prevent water returns due to a loss of pressure. Thus it prevents the mixture of different water uses, eliminating any cross contamination to the public water supply and vice versa.

This system ensures compliance with EN1717 Standard.
**Disinfection systems and amalgam recovery**

**Disinfection of instrument hoses**

- Water decontamination systems for instrument hoses.
- Combined, automatic water circuit decontaminating cycles in rotating instruments.
- Non-toxic, continuous and effective decontaminating effect.
- Automatic supervision of sterilised dosing.
- Maintenance-free operation.

**Disinfection of suction hoses**

- H1 system of continuous cleaning and complete disinfection of the suction system.
- Without need for additional manual disinfection.
- H1 includes the automatic selection suction hose system.

**Amalgam recovery**

- Built-in amalgam recovery and air and water separation systems with selection valve: dry or wet suction.

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**WEK**

**H1**

**TYPE-1**

**CAS-1**
**Led Lamps**

The new generation of high-specification lamps with LED technology offer a whole range of benefits:

LED lights generate a natural quality light which guarantees sharper vision in comparison with halogen light since they offer a greater visual field, fewer shadows during the treatment process and a whiter cold light.

LED light sources are longer lasting than the halogen bulbs; with minimum heat generated and lower consumption.

### TECHNICAL FEATURES

<table>
<thead>
<tr>
<th></th>
<th>EVA</th>
<th>MAIA</th>
<th>G.COMM POLARIS</th>
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</thead>
<tbody>
<tr>
<td>Light source</td>
<td>2 LED's</td>
<td>2 LED's</td>
<td>10 LED's</td>
</tr>
<tr>
<td>Colour temperature (oK)</td>
<td>from 2,700 K to 6,700 K</td>
<td>5,000 K</td>
<td>from 4,200 K to 5,800 K</td>
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<tr>
<td>Light intensity (lux)</td>
<td>from 11,000 to 50,000 lux</td>
<td>from 3,000 to 35,000 lux</td>
<td>from 8,000 to 35,000 lux</td>
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<td>Colour rendering index (CRI)</td>
<td>&gt; 95</td>
<td>85</td>
<td>&gt; 85</td>
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<tr>
<td>Illuminated area (mm)</td>
<td>190 x 100</td>
<td>170 x 85</td>
<td>140 x 70</td>
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<tr>
<td>Power supply</td>
<td>24 VAC 50/60 Hz</td>
<td>17-24 VAC 50/60 Hz</td>
<td>12-24 VAC 50/60 Hz</td>
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<tr>
<td>Consumption</td>
<td>24 V CA 26 VA / 32 V CC 14 VA</td>
<td>9 VA</td>
<td>29 VA</td>
</tr>
<tr>
<td>Guarantee</td>
<td>24 months</td>
<td>12 months</td>
<td>24 months</td>
</tr>
<tr>
<td>Certificate according to directive</td>
<td>93/42 CE class I</td>
<td>93/42 CE class I</td>
<td>93/42 CE class I</td>
</tr>
</tbody>
</table>
**Imaging systems**

22" LCD monitor, 24 Vdc, high resolution (1280x1024). Long-lasting screen, versatile and high output display with a wide range of integrated video options, designed specifically for dentistry environments. Anti-glare optical crystal, metal housing.

“Faro” arm for LCD monitor with double rotating axis and vertical inclination.

**Endodontic micromotor**

Brush-free induction micro motor with ENDO functions. It programs the type of contra-angle, the minimum and maximum speed, par, torque, direction of rotation and micromotor light intensity.

High performance at high and low speed (from 100 to 400 rpm), which allows for a wide range of interventions:

- High speed for restoration operations.
- Low speed (100-4000rpm) for endodontics.
- Automatic reverse rotation when the selected par is reached.
- Automatic return to counter clockwise (adjustable time delay).
- Sterilisable.
- Lighter, powerful and quieter.
- Virtually no maintenance required.
- Long useful life.
- Non-vibrating.
Auxiliary trays

Standard auxiliary tray (285 x 190 mm).

Large auxiliary tray (350 x 230 mm).

Doble auxiliary tray (410 x 310 mm).

Auxiliary tray (400 x 300 mm). For the hanging hose version. Additional syringe support is included.

Tray holder with removable silicone protection.
**Stools**

Td 600

Td 700

Td 800

**Optional right-side armrest**

180° Rotation

**Headrest and backrest**

**Standard headrest**

Included in the standard equipment, possible to make an upgrade to the headrest with 3D movement

Multifunctional articulated headrest

**Headrest with 3D movement**

Ergonomic headrest with spherical movement and pneumatic brake or manual brake (optional)

170 mm vertical movement

Personalize the unit to suit you
Cuspidor cover colours

- 128 Dental White
- 400 Yellow
- 405 Purple
- 425 Silver Grey
- 435 Pearl Black
- 807 Soft Pastel Green
- 475 Gamet
- 806 Soft Light Blue

Standard range upholstery colours

- 400 Yellow
- 405 Purple
- 410 Pastel Blue
- 425 Silver Grey
- 435 Pearl Black
- 440 Pastel Green
- 445 Pearl Green
- 455 Pearl Blue
- 470 Dark Blue
- 475 Gamet
- 480 Gold

Personalize the unit to suit you
“SOFT EASE” upholstery colours

BLACK  DARK BLUE  SPARKLING BLUE  TURQUOISE  AUBERGINE  CARMIN RED  CORN YELLOW  BAMBOO GREEN
**Functions**

- Electrically-operated chair with Trendelenburg position and 5 position memories (three for working, reset and return to spittoon).
- Pedal with chair movement control and instrument control using lever, with water and “chipblower” selector.
- Speed selector for the micromotor (M40) from 0 to 4,000 rpm. (Selective) and from 0 to 40,000 rpm (Global).
- Control of individual water flows for each instrument.
- Reversal selection of micromotor and ultrasounds power level.
- Automatic ON/OFF lamp in rest and return to spittoon position.
- 3F Syringe installed as standard.
- Optional quick connection Kit: USB 2.0 port built + air/water intake + 230 V output.
- Electric micromotor control by potentiometer.
Ergonomics

- Minimum chair height of 400 mm., making treatment of upper areas easier.
- Multi-position articulated headrest.
- Chair movements available on control pedal and keypad (principal and assistant).
- Intuitive and ergonomic “Easy-Touch” control panel, with micromotor reverse indication.
- Arm and instrument tray with mechanical compensation and pneumatic brake.
- Additional tray for small hand-held instruments.
- Water box with 70° rotation to make assistant’s work easier.
- Ergonomic headrest at the same level as the optional backrest.
- Optional narrow backrest.

Materials

- ALU MINIUM COR E: unit, chair and pedal manufactured in light anti-corrosive aluminium alloys.
- Water unit covers in ABS and connections unit cover made from highly resistant and non-deformable special Baydur® polyurethane.
- Large-capacity porcelain spittoon bowl.
- “Standard” and “SOFT EASE” upholstery, high quality and hygienic, fireproof, steam and air permeable, highly elastic and pleasant feel.

Safety Features

- On auxiliary cannula support, backrest and chair base.
- On movement keypads.
- On optional instruments (turbine, micromotor and ultrasound) through adjuster pedal.

Hygiene

- Autoclavable silicone instrument support.
- Extractable and thermo-disinfectable suction hoses.
- Easy-to-clean suction filter.
- Rotary instrument oil recuperator.
- Fewer joints and corners, making it easy to clean.
- “WEK” water decontamination system for instrument hoses.
- “H1” disinfection system for suction hoses.
- Removable and autoclavable mouthwash cup at 135°.
### Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>220 - 240 V~</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
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<tr>
<td>Air pressure</td>
<td>5,5 Bar</td>
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<tr>
<td>Water pressure</td>
<td>3 Bar</td>
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<tr>
<td>Maximum Power consumed</td>
<td>900 W</td>
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<tr>
<td>Electrical protection type</td>
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<tr>
<td>Operation type</td>
<td>Intermittent</td>
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<tr>
<td>Maximum load (patient)</td>
<td>160 kg</td>
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<tr>
<td>Maximum load (instrument tray)</td>
<td>2 kg</td>
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<tr>
<td>Electric Micromotor instrument</td>
<td>24 V c.c. / 65 W</td>
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<tr>
<td>MX Micro motor instrument</td>
<td>24 V c.c. / 60 W (130 W peak)</td>
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<tr>
<td>Instrument light Bulbs</td>
<td>3 V – 7 V / 2,5 W</td>
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<tr>
<td>Ultrasounds</td>
<td>24 V c.a. / 35 W</td>
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<tr>
<td>Polymer lamp</td>
<td>24 V c.a. / 150 W</td>
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<tr>
<td>3F Syringe</td>
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<tr>
<td>Unit Classification 93/42/EEC</td>
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<tr>
<td>Insulation class</td>
<td>Standard Class Ila</td>
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<tr>
<td>Unit net/gross weight</td>
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<tr>
<td>Dental unit class</td>
<td>Type B</td>
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<tr>
<td>Installation type</td>
<td>240 kg / 290 kg</td>
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<td>Main fuse</td>
<td>Electro-pneumatic</td>
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<tr>
<td>Movement panel fuse</td>
<td>Permanent</td>
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<tr>
<td>Transformer primary fuse, 9015093 PCB</td>
<td>6.3 A / 250 V</td>
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<tr>
<td>24V AC protection line (yellow/yellow)</td>
<td>T 32 mA / 250 V</td>
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<tr>
<td>17V AC protection line (red/red)</td>
<td>TT 2,5 A / 250 V</td>
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<td>Auxiliary outputs 24 V c.a.</td>
<td>Polyswitch RUE600</td>
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<tr>
<td>Suction connection</td>
<td>Polyswitch RUE600 + RUE185</td>
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<tr>
<td>Potential free contact AUX connections box</td>
<td>4 x water unit</td>
</tr>
<tr>
<td></td>
<td>1 x connection box</td>
</tr>
<tr>
<td></td>
<td>500 W / 230 V. Relais 20 A / 250 V</td>
</tr>
<tr>
<td></td>
<td>Max 250 V / 5 A</td>
</tr>
</tbody>
</table>
Dimensions

SD-150 / SD-175

SD-60

A-3200

Technical Data and Dimensions
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