S1
Reliable, Solid and Simple
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 expanding 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 Pyrinees 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 teamwork is capable of justifying our experience and ensuring our future.
The Ancar S1 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.

THE MOST COMPLETE RANGE

TREATMENT UNITS

AMBOEXTROUS TREATMENT UNITS

ORTHODONTIC UNITS

CONSULTATION CHAIRS

DELIVERY UNITS

S1 H
S1 S
S1 W
S1 S Double
S1 Chair S
S1 Chair S Double
S1 C
S1 Chair C
Standard Chair
Pneumatic Cart
Instrument Holder
Cabinet Tray
**S1 W**

**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

Side view. Safety on assistant support, backrest and chair base.

**S1 H**

**A “Premium” product of exceptional quality**

**Treatment unit**

**Hanging hoses system**

Arm with mechanical compensation and pneumatic brake

Removable cup filler for easier cleaning

Intuitive and ergonomic “Easy Touch” control panel

Arm with mechanical compensation and pneumatic brake

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

Micromotor reverse selection and scaler power level

Water unit made of anti-corrosive aluminum and with a 70º turn

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

Micromotor reverse selection and scaler power level

Water unit made of anti-corrosive aluminum and with a 70º turn

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

Removable cup filler for easier cleaning
S1

Stylish orthodontics

Orthodontic treatment unit

The S1 unit is the simplest but most ingenious way to outfit your office, especially designed for orthodontics practices. An affordable investment provides an orthodontic unit with the best specifications, quality materials, safety, precision, functionality, ergonomics and hygiene.

S1 C

Intelligent decision

The S1 C installs two suction hoses in the cart as standard. As an option, a hose for the turbine, electric micromotor and scaler can be installed. The S1 C combines the strength and quality of work, which all the S1 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 guarantees a high performance in all interventions.

The S1 C 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.

Optional 6-position auxiliary support for additional elements.
S1 Chair S

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
- Main instrument tray with 3F syringe as standard and 3 free positions as option: turbine, micromotor and scaler.
- Assistant support with two standard suction hoses.

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

Pedal handle with safety retractable spring.

Ambidextrous dual arm treatment unit

An ambidextrous chair with two arms fixed in the back part of the chair. Allows 180º mobility from left to right and vice versa for four-handed treatments with an assistant.

The S1 Chair S Double is a true technological innovation where a new ergonomics work combine with a perfection aesthetic and functionality.

Various tests performed in real working environments with patients and professionals have resulted in this ambidextrous unit of dual articulated arm, totally innovative and unique in the market.

Continuous innovation for new intervention models
Comfortable for you, comfortable for your patients

The features of the S1 Chair and Standard Chair 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 Plus.” The 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.

The finest quality materials coupled with the painstaking devotion to finish give the Series 1 treatment centres and chairs impecable aesthetics alongside reliability, longevity and all-round satisfaction.

Standard Chair
Consultation chair

S1 Chair
Consultation chair with Assistant Tray

S1 Chair C
Consultation chair with Assistant Tray and Mobile Delivery Cart

Ambidextrous unit with side delivery

Ambidextrous treatment unit with water unit

The new S1 S unit, to meet your every need. The unit’s ergonomic design allows for a very wide range of movements and comfortably and safely cover the praxis from any position. The anti-corrosive aluminum alloy, fireproof coverings and mechanical reliability make the Ancar dental unit a tried and tested product.

Versatility and functionality at the highest level guarantee patients’ well-being and optimum all-type treatments.

- Up to 5 positions: Syringe / turbine / micromotor / ultrasonic.
- Cables hidden inside the instrument tray arm.
- Security in the instrument tray arm.
- Tray for integrated small hand-held instruments.

The Ancar S1 double S unit, this time, accompanied by the water box, gives the patient great comfort during the treatment. The ergonomics of its design allows a very wide range of movements and comfortably and safely cover the praxis from any position.

- Integrated junction box in seat base.
- Instrument support arm with ambidextrous mobility.
- 70º Movement of the water group.

"Long Play" versatility

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- Integrated junction box in seat base.
- Instrument support arm with ambidextrous mobility.
- 70º Movement of the water group.

Instrument support made of aluminum, with 3F syringe as standard. Turbine, micromotor and scaler optional.

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Pneumatic Cart

Wherever, whenever and however you wish

Mobile delivery cart

A dental cart completely manufactured in a light aluminium alloy. With height adjustment from 670 mm to 870 mm and the possibility of incorporating a connection box and pedal for completely independent work.

Connection box and independent pneumatic pedal.

Intuitive and ergonomic “Easy Touch” control panel.

Automatic pneumatic pedal with water selection and “chip blower” system.

New concepts for New working spaces

The continuous evolution in new working environments is the stimulus to offer state-of-the-art solutions adapted to the dental practice. New forms in the distribution of spaces, new distances in the accessibility to the instruments and new ergonomics of work give way to unique innovations to transform your practice into a functional and operative working area.

Instrument Holder

Wall or furniture instrument support

The iH10 is a module fixed on the wall or furniture, configurable with a suction hose, 3F Syringe, hose for turbine and micromotor.

Incorporates a configurable hydro pneumatic unit with a CS1 separator for dry suction or a selection valve for wet suction.

New forms in the distribution of spaces, new distances in the accessibility to the instruments and new ergonomics of work give way to unique innovations to transform your practice into a functional and operative working area.

Instrument Holder and Cabinet Tray mount the pneumatic pedal as standard, with selection of water and “chip blower”.

Cabinet Tray

Wall or furniture instrument tray

The CT10 is an instrument tray with an articulated arm to be fixed to the wall or under the furniture. The rotation of the arm and the tray itself makes the module accessible to the work area and is collected under the furniture once the working day is finished, improving access to the box and cleaning of the unit. CT10 incorporates 3F Syringe as standard and hose for turbine, micromotor and scaler as option. Entirely made of aluminium alloy.

Manual height adjustment and wheel lock system.

Automatic pneumatic pedal with water selection and “chip blower” system.

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Details that make the difference

Intuitive and ergonomic: “Easy Touch” control panel.

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

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

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

ALUMINIUM CORE
Made in light, anticorrosive aluminium alloy.

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

Removable cup filler for easier cleaning.

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

Intuitive and ergonomic: “Easy Touch” control panel.

Compensated whip-hoses to work with less effort.

Extractable and autoclavable instrument support.

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.
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 return 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

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.

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.

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

Personalize the unit to suit you
**THEIATECH** is the innovative LED lighting system which enhances the view range of the pre-operative area, through a lighting balance inside the dental practice in order to reduce the doctor’s visual stress.

THEIATECH light source consist of 54 LEDs which, through a dedicate diffuser, distribute a cone of light that spreads into the surrounding environment, preventing the glare created by the sudden change of light.

THEIA TECH has two light sources: operative area with 2 LED adjustable from 3.000 to 50.000 Lux and pre-operative area with 54 LED adjustable from 800 to 1500 Lux.

### TECHNICAL FEATURES

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<tr>
<th>Light source</th>
<th>AcVIA</th>
<th>THEIA TECH</th>
<th>MIAA</th>
<th>POLAIRS</th>
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<td>93/42 CE class I</td>
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</table>

**Imaging systems**

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

*"Start" arm for the LCD monitor.

*"Fano" arm for LCD monitor with double rotating axis and vertical inclination.

Wide range of intraoral cameras in integrated systems, ideal for educating and motivating patients in all stages of the treatment. Clear images for immediate simple use.

**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 110 to 400 rpm), which allows for a wide range of interventions:
- High speed for restoration operations.
- Low speed (100-400rpm) 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.

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 a 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 bulbas, with minimum heat generated and lower consumption.

**Led Lamps**

AL YA? THEIA TECH* MAIA POLARIS

<table>
<thead>
<tr>
<th>LED</th>
<th>2 LED’s</th>
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<th>2 LED’s</th>
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<td>95</td>
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<td>140 x 70</td>
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<tr>
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<td>93/42 CE class I</td>
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</tr>
</tbody>
</table>
**Auxiliary trays**

- Standard auxiliary tray (285 x 190 mm).
- Large auxiliary tray (360 x 230 mm).
- Double auxiliary tray (410 x 310 mm).

**Backrests**

- Standard backrest
- Foam backrest (optional)

**Stools**

- Td 500
- Td 600
- Td 700

**Optional right-side armrest**

- 180° rotation

**Headrest and backrest**

- Multifunctional articulated headrest
- 170 mm vertical movement

**Personalize the unit to suit you**

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

Tray holder with removable silicone protection.

Ergonomic headrest with spherical movement and pneumatic brake or manual brake (optional).
Cuspidor cover colours

- Dental White
- Yellow
- Purple
- Silver Grey
- Pearl Black
- Soft Pastel Green
- Garnet
- Soft Light Blue

Standard range upholstery colours

- Yellow
- Purple
- Pastel Blue
- Silver Grey
- Pearl Black
- Pastel Green
- Pearl Green
- Pearl Blue
- Dark Blue
- Garnet
- Gold

“Soft Plus” upholstery colours

- Soft Dunes Grey
- Soft Red Marsala
- Soft Yellow Pistacho
- Soft Anthracite
- Soft Black
- Soft Orange
- Soft Olive Green
- Soft Brown
- Soft Lime Green
- Soft Red Marsala
- Soft Navy Blue
- Soft Light Cream
S1
Technical Features

**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 70º rotation to make assistant’s work easier.
- Ergonomic headrest at the same level as the optional backrest.
- Optional narrow backrest.

**Materials**

- ALU MINIMUM 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 Plus” 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 reservoir.
- 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 135º.
### Technical Data

<table>
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<tr>
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<td>Ultrasound</td>
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<td>Electromotor instrument</td>
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<tr>
<td>Main fuse</td>
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<td>Movement panel fuse</td>
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<td>Transformers primary fuse, 9015093 PCS</td>
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<td>Potential free contact AUX connections box</td>
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### Dimensions

![Dimensions Diagram](image-url)
Technical Data and Dimensions

S1 S

S1 Chair S

S1 Chair S Double

Standard Chair

S1 Chair

Pneumatic Cart

Cabinet Tray
WE CARE ABOUT YOU

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