

**OWNER'S  
MANUAL**  
SYNCRUS  
DENTAL CHAIR

CE



**SAEVO**

## PRESENTATION OF MANUAL

### INSTRUCTIONS FOR USE

**Technical Name:** Dental Chair

**Trade Name:** Dental Chair

**Model:** Syncrus

**Manufacturer/ Distributor:**

Alliage S/A Indústrias Médico Odontológica

C.N.P.J. 55.979.736/0001-45 - Insc. Est. 582.002.897.114

Rod. Abrão Assed, Km 53+450m - Cx. Postal 782 CEP 14097-500

Ribeirão Preto - S.P. - Brasil

Phone +55 (16) 3512-1212

**Technical Duties:** Daniel R. de Camargo

CREA-SP: 5062199650

**Registration ANVISA #:** 10069210062

### ATTENTION

For greater safety:

Read and understand all the instructions contained in these instructions for use before installing or operating this equipment.

Note: These instructions for use must be read by all the operators of this equipment.

## INDEX

### 02 PRESENTATION OF MANUAL

#### 04 IDENTIFICATION OF EQUIPMENT

- 04 Indication of Equipment
- 04 Purpose of the equipment
- 04 Principles and fundamentals applied to the product functioning
- 05 Description of Equipment

### 06 MODULES, ACCESSORIES, OPTIONS AND MATERIALS OF CONSUMPTION

#### 10 TECHNICAL SPECIFICATIONS

- 10 General features
- 11 Electromagnetic emissions
- 15 Dimensions
- 16 Packing symbols
- 16 Product symbols

### 17 INFRA-STRUCTURE SPECIFICATION

### 18 INSTALLATION OF EQUIPMENT

### 19 OPERATION OF EQUIPMENT

#### 21 PRECAUTIONS, RESTRICTIONS AND WARNINGS

- 21 Recommendations for preserving the equipment
- 21 Transportation, storage and operation
- 22 Sensibility to predictable environmental conditions in regular use conditions
- 22 Precaution and warnings “during the installation” of the equipment
- 22 Precautions and warnings “during the use” of equipment
- 23 Precautions and warnings “after” the use of equipment
- 23 Precautions and warnings during the “cleaning and disinfection” of equipment
- 23 Precautions in case of alteration in the functioning of equipment
- 23 Precautions to be adopted against foreseeable or uncommon risks, related to the deactivation and abandoning of equipment

#### 24 CORRECTIVE AND PREVENTIVE MAINTENANCE AND PRESERVATION

- 24 Additional procedures for reuse
- 24 Cleaning
- 24 Disinfection
- 24 Preventive Maintenance
- 24 Corrective Maintenance

### 25 UNFORESEEN EVENTS – SOLUTION OF PROBLEMS

### 25 EQUIPMENT'S WARRANTY

### 25 FINAL CONSIDERATIONS

# IDENTIFICATION OF EQUIPMENT

## Dear Customer

This manual is a general presentation of your product and it will give you important details to help you to solve possible problems.

Please, read it and keep this with you.

## Indication of Equipment

This equipment is for dental use only. It must be operated and utilized by specialized professional (certified professional, according to the legislation of the country) and following the instructions of the manual. The operation of the equipment required, for the professional, the utilization of correct instruments and it should to be in perfect conditions of the use, and to protect the professional, the patients and others, in the eventual danger situation.

## Purpose of the equipment

Chair for patient accommodation during dental treatment.

## Principles and fundamentals applied to the product functioning

Chair for accommodating the patient during dental treatment, activated by foot control or control panel\* located at the equipo, where commands are sent from the electronic board to two motors responsible for the movement of the seat's mechanism and chair's backboard.

# IDENTIFICATION OF EQUIPMENT

### Description of Equipment

Chair for accommodating the patient during dental treatment, with automatic movements, ambidextrous (serves both right and left handed), activated by a low tension moto-reducer providing a low level of noise.

Features a multifunctional and reversible command pedal (fixed at the base or mobile), with Gradual activation and alteration of the reflector's luminosity, backboard's movement and seat, back to zero and programmable work positions by the Professional.

Bold design with rounded lines.

Engaging curve backboard, which besides offering comfort to the patient, allows higher proximity to the operation field.

Housing built in massive steel, with anticorrosion treatment and covers in injected ABS with anti-UV protection, providing higher safety, resistance and durability to the set.

Base with ergonomic design, built in steel with anticorrosion treatment, fully protected by an anti-slipping edging.

Perfect stability, don't need to be fixed to the ground, however, in case the client chooses to attach it to the ground, Alliage' chairs already feature holes for that purpose.

Features an integrated bounding box.

Wide upholstering with accentuated lumbar support, mounted on a rigid structure covered with high resistance injected polyurethane, covered in leather\* or with laminated material, seamless, non-toxic and non-flammable.

Easy-fix system\*, that allows a fast removal of the upholster.

Arms support with rounded finishing, injected in ultra-resistant material e waterproof painting.

Available in \*fixed or \*retractable model, with lateral opening to facilitate the patient's access.

Anatomic, removable \*bi-articulated head backboard with height adjustment, with front, back and longitudinal movements.

\*Fully embed hoses.

\*Cervical support, provides higher comfort to the patient.

\*Plastic protector to the seat in the foot area.

\*Level adjustment through embed adjustable feet embed in its base.


\*Anti-smashing safety device for the lower limbs.

To ensure safe operation of your equipment, use only the assembly configurations (Chair, Delivery Unit, Water Unit and Dental Light) provided by Reseller / Alliage Authorized Service.

---

\* Items optional

MODULES, ACCESSORIES, OPTIONS AND MATERIALS OF CONSUMPTION


 The contents of this page are of an informative nature, the equipment being able to differ from that illustrated. So, upon acquiring the product check the technical compatibility between equipment, coupling and accessories.



- 01 - Headrest
- 02 - Chest backrest
- 03 - Arm support
- 04 - Seat
- 05 - Engine finishing cover

- 06 - Master switch - On / Off switch
- 07 - Base
- 08 - Binding stripes (rust protection)
- 09 - Pedal

\* Items optional

 NOTE: Laminated PVC or leather upholstery, available in several colors\*

**MODULES, ACCESSORIES, OPTIONS AND MATERIALS OF CONSUMPTION**



# MODULES, ACCESSORIES, OPTIONS AND MATERIALS OF CONSUMPTION

- \*01 - Fixed headrest.
- \*02 - Bi articulated headrest ("click" system).
- \*03 - Bi articulated headrest (driven by knob).
- \*04 - Bi articulated headrest (driven lever).
- \*05 - Fixed arm. (2 models).
- \*06 - Fixed or retractable arm "open sided". (2 models).
- \*07 - Debris filter.
- \*08 - Cervical support.
- \*09 - Pedal with 7 keys (optional loose or fixed to the base of the chair)
  - 3 work positions;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reflector's activating.
- \*10 - Integrated Pedal - Chip Blower
  - 4 Working positions;
  - Spitting position;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reversion of the electric micro-motor;
  - Reflector's activating;
  - Emergency / Movement locking;
  - Chip Blower / Water cutting;
  - Acceleration shaft.
- \*11 - Pedal with 11 keys (optional loose or fixed to the base of the chair)
  - 4 Working positions;
  - Spitting position;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reflector's activating;
  - Emergency / Movement locking.
- \*12 - Pedal Joystick 5 keys (optional loose or fixed to the base of the chair)
  - 3 Working positions;
  - Spitting position;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reflector's activating;
  - Emergency / Movement locking.

---

\* Items optional



## MODULES, ACCESSORIES, OPTIONS AND MATERIALS OF CONSUMPTION

- \*13 - Pedal Joystick 3 keys (optional loose or fixed to the base of the chair)
  - 3 Working positions;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reflector's activating;
- \*14 - Pedal with 7 keys (móvel)
  - 3 Working positions;
  - Back to zero position;
  - Down seat / Lift seat / Down backboard / Lift backboard;
  - Reflector's activating;
- \*15 - Feet protector.
- \*16 - Spare bounding box kit.
- \*17 - Upholstery fixed with screws.
- \*18 - Removable Upholstery (Easy-Fix system).
- \*19 - Power input cable.
- \*20 - Anti-smashing device.
- \*21 - Engine finish cover (2 models).



### Attention

- The drawing illustrates all the optional items , therefore, your equipment will consist only of the chosen items selected during your purchase option.
- The use of any part, accessory or material not specified or provided in these use instructions is of entire responsibility of the user.

**TECHNICAL SPECIFICATIONS**

**General features**

<b>Supply voltage</b>
127/220 V~ (selectable internally)
<b>Frequency</b>
50/60 Hz
<b>Electric shock protection type</b>
Class one equipment - Applied Part Type B
<b>Mode of Operation</b>
Intermittent – T-on 1min - T-off 4min
<b>Protection against harmful water penetration or particulate material</b>
IP00 - All the chair, excepting foot control
IP01 - Foot control
<b>Input power</b>
350VA
<b>Protection fuses</b>
Fuses for power supply - 2x10A (110/127V) or 2x5A (220/240V)
Fuse electronic circuit - 1x10A
Dental Light Fuse - 1x7A (Halogen Bulb) or 1x3A (LED)
<b>Rising capacity</b>
Distributed load of 200 kg (Patient mass + accessories and equipment)
<b>Net Weight</b>
104 Kg

**Chair for left and right-handed dentists use**

Chair was designed for easy installation for left and right handed users, without losing its features. When the Alliage authorized technician installs the equipment, tell him whether position you want, and he will make the necessary adjustments.


**Current surge protection**

The equipment is endowed with high current, safety device that uses 2 fuses and internal overpower protection for the equipment that is attached to the chair.

TECHNICAL SPECIFICATIONS


Bump preventing device\*

Always having in mind the dentist’s security, we developed the leg bump preventing device. When the chair were descending, any obstruction below the chair would trigger this device, interrupting all functions and preventing further complications.



**Warning**

Pay attention while using this equipment together with other movable equipment, in order to avoid collisions.



**Attention**

The materials used to produce the equipment are Biocompatible.

Electromagnetic emissions

Electromagnetic Emissions

The **Syncrus Dental Chair** is made to be used in the electromagnetic environments specified below. The client or the user of the **Syncrus Dental Chair** must be sure that it is used in such environment.

Emission test	Compliance	Eletromagnetic environment - Guide
RF emissions ABNT NBR IEC CISPR 11	Group 1	This <b>Syncrus Dental Chair</b> uses RF energy only for internal functions. However, its emissions are too low and it's unlikely to cause any interference in the equipments next to it.
RF emissions ABNT NBR IEC CISPR 11	Class B	
Emissions of harmonics IEC 61000-3-2	Class A	This <b>Syncrus Dental Chair</b> is proper to be used in all establishments; including domestic settings and those directly connect to a public low voltage distribution which feeds domestic buildings.
Fluctuation of Voltage / Emissions of flicker  IEC 61000-3-3	As per	

\* Items optional

TECHNICAL SPECIFICATIONS

Guidelines and manufacturer's declaration - electromagnetic immunity

The **Syncrus Dental Chair** is made to be used in the electromagnetic environments specified below. The client or the user of the **Syncrus Dental Chair** must be sure that it is used in such environment.


Immunity test	ABNT Test level NBR IEC 60601	Level of compliance	Electromagnetic environment Directives
Electrostatic discharge (ESD) IEC 6100-4-2	± 6 kV Contact ± 8 kV Air	± 6 kV Contact ± 8 kV Air	Floors should be wooden, concrete or ceramic. If the floor is covered with synthetic material, the relative humidity should be at least 30%.
Quick electric transitory phases / train of pulses ("Burst") IEC 61000-4-4	± 2 kV in power supply lines ± 1 kV in input / output lines	± 2 kV in power supply lines ± 1 kV in input / output lines	It is advisable that the quality of the power supply should be that of hospital or typical commercial environment.
Surges IEC 61000-4-5	± 1 kV lines (s) to lines (s) ± 2kV lines (s) to ground	± 1 kV lines (s) to lines (s) ± 2kV lines (s) to ground	It is advisable that the quality of the power supply should be that of hospital or typical commercial environment.
Reduction, interruption and variance of voltage in power supply input lines  IEC 61000-4-11	< 5% Ut (>95% drop in Ut) for 0,5 cycle 40% Ut (60% drop in Ut) for 5 cycles 70% Ut (30% drop in Ut ) for 25 cycles < 5%Ut (>95% drop in Ut ) for 5s	< 5% Ut (>95% drop in Ut ) for 0,5 cycles 40% Ut (60% drop in Ut) for 5 cycles 70% Ut (30% drop in Ut ) for 25 cycles < 5% Ut (>95% drop in Ut ) for 5s	The recommended power supply quality is the same as used for commercial or hospital environment. If is required a continuous use during energy supply outages, it is recommended that the <b>Syncrus Dental Chair</b> be feed by an uninterruptible power supply or a battery.
Magnetic field in frequency of power supply (50/60Hz)  IEC 61000-4-8	3 A/m	3 A/m	If an image distortion occurs, may be necessary place the equioment far from the supply frequency or to installa magnetic armour. The frequency magnetic field shall be measured at the installment place to assure that it is low enough.

NOTE Ut is the a.c. power supply voltage before the application of the test level

TECHNICAL SPECIFICATIONS

Guidelines and manufacturer's declaration - electromagnetic immunity

The **Syncrus Dental Chair** is made to be used in the electromagnetic environments specified below. The client or the user of the **Syncrus Dental Chair** must be sure that it is used in such environment.

Immunity test	ABNT test level NBR IEC 60601	Level of compliance	Electromagnetic Environment Directives
RF conducted IEC 61000-4-6	3 vrms 150 kHz up to 80 MHz	3 Vrms	It is advisable that portable and mobile RF communication equipment is not used near any part of the <b>Syncrus Dental Chair</b> , including cables, with a separation distance less than the one recommended, calculated from the equation applicable to the frequency of the transmitter.  Recommended separation distance:  $d = 1,2\sqrt{P}$  $d = 1,2\sqrt{P}$ 80 MHz thru 800MHz $d = 2,3\sqrt{P}$ 800 MHz thru 2,5MHz  Where P is the nominal maximum power of output of the transmitter in watts (W), as per the manufacturer of the transmitter, and d is the recommended separation distance in meters (m). It is advisable that the fiel intensity from the RF, transmitter as determined by means of electric inspection on-site <sup>a</sup> ,is less than the level of compliance in each frequency range <sup>b</sup> . There may be interference near the equipment marked with the following symbol: 
RF radiated IEC 61000-4-3	3 V/m 80MHz up to 2,5 GHz	3 V/m	

NOTE 1 At 80MHz and 800MHz, the highest frequency range applies.  
NOTE 2 These directives may not be applicable in every situation. The electromagnetic transmission is affected by the absorption and reflection of structures, objects and people.

a - The field intensities set by the fixed transmitters, such as radio base stations, telephones (mobile phone, wireless) land mobile radio, amateur radio, AM and FM radio transmissions and TV transmissions can not be predicted with accuracy. Due to the RF fixed transmitters is recommended to install an electromagnetic inspection at the local in order to evaluate the electromagnetic environment. If at the place where the **Syncrus Dental Chair** is be using the field intensity level exceeds the conformity level for the RF above, is recommended to observe if the operations are normal. Whether abnormal operations are observed, additional procedures shall be necessary such as reorientation or replace the **Syncrus Dental Chair**.  
b - Whether above the frequency range of 150kHz to 80 MHz is recommended a field intensity below than 3 V/m.

TECHNICAL SPECIFICATIONS

Recommended distances between portable and mobile RF communication equipments and the Syncrus Dental Chair

The **Syncrus Dental Chair** is made to be used in an electromagnetic environment in which RF disturbances are controlled. The client or the user of the **Syncrus Dental Chair** may help preventing electromagnetic interference by keeping a minimal distance between mobile and portable RF communication equipment (transmitters) and the **Syncrus Dental Chair** as recommended below, in accordance with the maximal voltage output of the communication equipment.

Transmitter Maximum Output (W)	Separation distance according to transmitter frequency (M)		
	150 kHz to 80 MHz d= 1,2√p	80 kHz to 800 MHz d= 1,2√p	800 kHz to 2,5 GHz d= 2,3√p
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

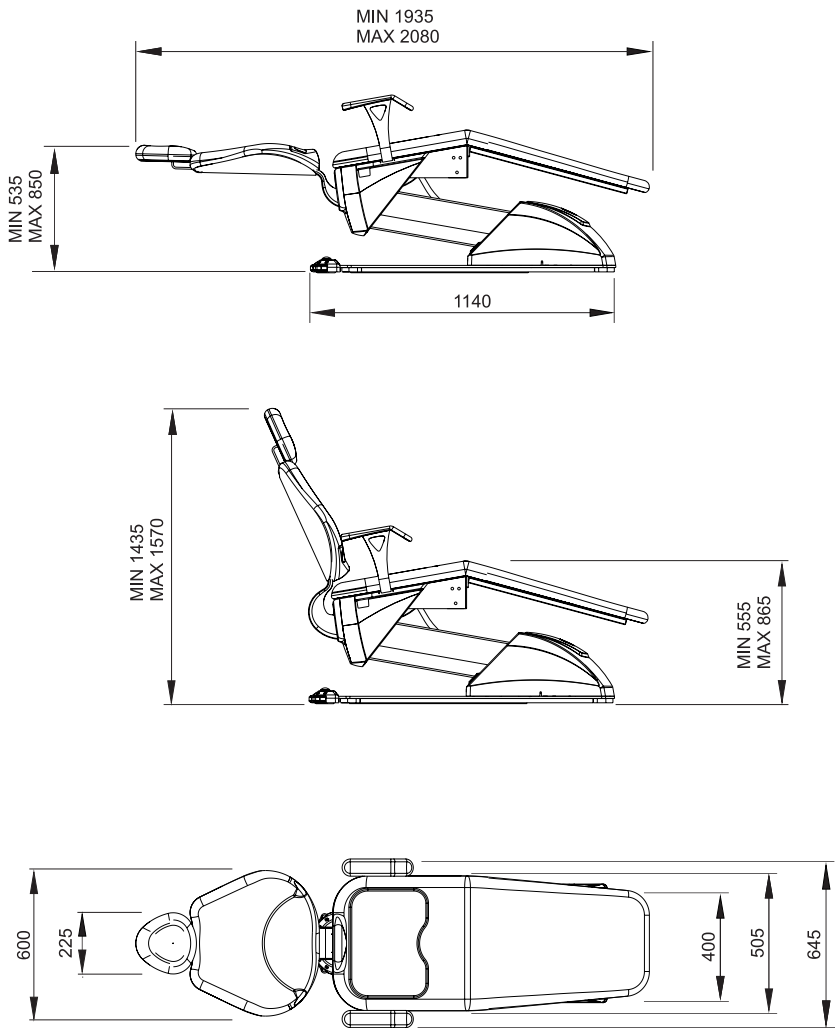
For transmitters with a maximum nominal output power not listed above, the recommended **d** separation distance in meters (**M**) can be determined using an equation applicable to the frequency of the transmitter, where **P** is the transmitter maximum nominal output in watts (**W**) according to the transmitter manufacturer.

NOTE 1 At 80MHz and 800MHz, is applied the separation distance for the higher frequency range.

NOTE 2 These guidelines may not apply to all situations. The absorption and reflection from structures, objects and people affect the electromagnetic propagation.

TECHNICAL SPECIFICATIONS

Dimensions (mm)



Note

The height inferior and superior limits can be adjusted in case of special needs. For further information, contact your representative (Alliage).

TECHNICAL SPECIFICATIONS

Packing symbols



It determines the maximum quantity of boxes which can be stacked during transportation and storage "as per packaging".



Packing to be transported and / or stored avoiding humidity, rains and wet floor.



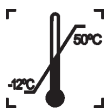
Packing to be transported and / or stored with the harrows up.



The packing must be stored and transported away from direct sun light exposure.



Packing to be transported and / or stored with care (should not suffer drop and neither receive impact).



Temperature limit for the packing to be stored or transported.

Product symbols



Applied part type B.



Grounding (at several points of the equipment) indicates the condition of being grounded.



Attention:  
Check the working instructions.



Note:  
It indicates useful information for operation of the product.



Refer to the instruction manual.



Authorized representative in the European Community.



TECHNICAL SPECIFICATIONS

Product symbols



General sign for mandatory action.



General warning:  
If the instructions are not properly followed, the use can lead to damage to the product, user or patient.



Turned on position.



Turned off position.



Lift seat.



Lower seat.



Lift backrest.



Lower backrest.



It determines the initial position.



Activation of the dental light.



It determines the work position  
"1, 2 and 3".

INFRA-STRUCTURE SPECIFICATION

The perfect functioning and the durability of the dental office are directly linked to the preinstallation, which must be carried out by duly trained professionals according to the instructions contained in the "Pre installation plan" which is found with the Alliage authorized technical representative.

### INSTALLATION OF EQUIPMENT



The installation of this equipment requires the necessity of specialized technical assistance (Alliage). Ask for the presence of a Alliage representative technician at the nearest seller, or through the Alliage Service Center: + 55 (16) 3512-1212.



#### Note

That information are also part of the Installation and Maintenance Manual of the equipment that is found with the Alliage authorized technical representative.



#### Warning

For your safety, the Dental Chair leaves the factory positioned at 220V~, so ensure that your network is compatible before turning it on. If it is 127V~, request the presence of an authorized Alliage technician.

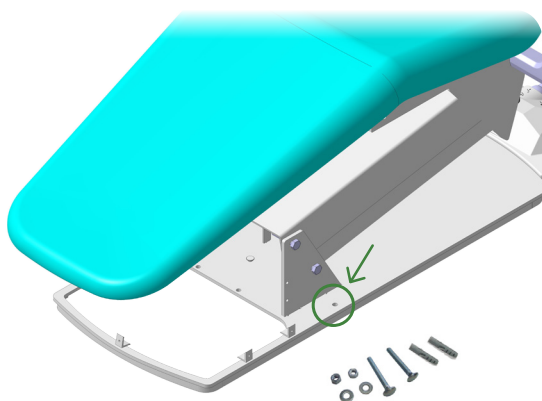


#### Important

The dental set is dimensioned so that the stability of the set composed of a Dental Chair, Delivery Unit, Dental Light and Water Unit remains stable in normal conditions of use. If, by option of the customer, it is necessary to install other accessories in the dental set, Alliage informs you that the evaluation of the stability is the customer's responsibility, and suggests that in this case the base of the dental chair is fastened to the floor by means of the holes already furnished in its base. This means that the added weight does not jeopardize the stability of the set.

### How to fix the dental chair base to the floor

Mark the floor, stick with 12mm drill, insert two S12 screw plastic plugs in the holes, place the chair aligned to the holes and fix it using 3/8" x 90mm hex head steel screws and washers.



Screws, washers and bushings with the product



Base pierced for option of fastening the dental chair to the floor: 2 Holes located on the side of the bearings "outside" covered by the finishing cover of the motor.



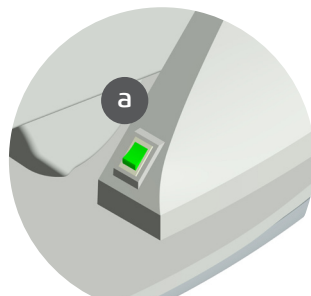
Minina area for the installation of a dental set should be 9m<sup>2</sup>.

# OPERATION OF EQUIPMENT

## Initiating

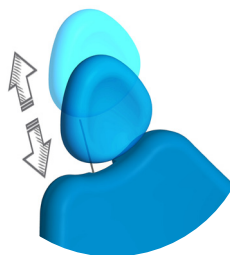
After positioning the chair in the chosen place:

- Turn on the general key - on/off switch located on the engine cover trim side (a).
- Thru the command pedal, adjust the chair to the desired position.



## Headrest bracket

To adjust height just move it vertically (by friction).



## Positioning of the bi-articulated headrest\*

To move the articulated headrest, release the lever (b) pulling it up, find the desired position and move the lever down to lock the mechanism.



## Easy-fix\*

Backrest's upholstery is removable thanks to the Easy-fix system.

To remove it, just pull. To place it again, find the correct position and push, fixing the upholstery to the backrest.



## Using the Foot Protector\*

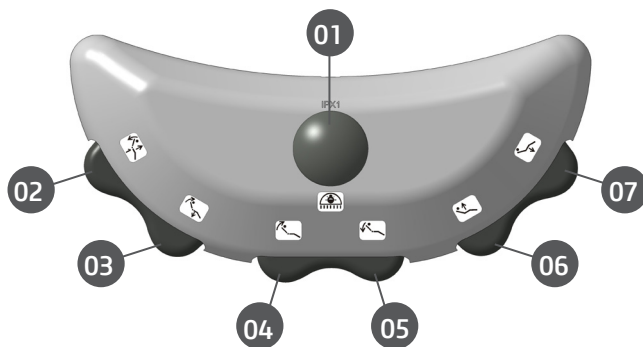
The foot protector prevents damage to the padding. Its fixation is given through velcros in the bottom of the upholstery.

---

\* Items optional

### OPERATION OF EQUIPMENT

#### Pedal joystick (7 keys)



- 01 - Activation of Dental Light
- 02 - Work positions
- 03 - back to zero
- 04 - Lift backrest
- 05 - Lower backrest
- 06 - Lift seat
- 07 - Lower seat

#### Activation of the dental light

Press and release the key (01) to turn the Dental Light on or off.

To change the luminous intensity of the Dental Light, hold down the key until the Dental Light reaches the desired intensity.

#### Automatic movement to the back to zero position - V0

Press the key (03) so that the seat and backrest simultaneously return to the zero position. This is the most comfortable position for the patient to enter / exit the Dental Chair.

To stop the movement, actuate the pedal in any direction or quickly press the key (03). The reflector will automatically turn off after pressing the button (03).

#### Working position

Press and release the work position key (02) after:

The first (simple) beep to move the Chair to the working position 1;

The second beep (double) to move the Chair to the working position 2;

The third (triple) beep to move the Chair to the working position 3;

After releasing the key, the seat and the seat backrest will move simultaneously to the chosen working position and the Reflector at the programmed intensity.

To stop the movement, simply press any other command.

# OPERATION OF EQUIPMENT

## Memorization of working positions

These Chairs feature three programmable work positions. The programming is done as follows:

1. Place the Chair in the desired working position using the joystick;
2. Hold down the Job Position key (02). Three beeps will sound and then a long beep, indicating the programming mode. Release the key shortly after:

The first (single) beep is issued for the storage of working position 1;

The emission of the second beep (double) for the storage of working position 2;

The output of the third (triple) beep for storing the working position 3.

It is possible to memorize the intensity of the Reflector together with the working position by setting it to the desired intensity before memorizing.

# PRECAUTIONS, RESTRICTIONS AND WARNINGS

## Recommendations for preserving the equipment

Your equipment has been designed and developed according to the standards of modern technology. Similarly to other kinds of equipment, it requires special care, which is many times neglected due to several reasons and circumstances. Therefore, here are some important reminders for your daily routine. Try to follow these simple rules, which will save you a lot of time and will avoid unnecessary expenses once they start making part of your working procedure.

## Transportation, storage and operation

This equipment must be transported and stored observing the following directions:

- Avoid falls and impacts;
- Keep it dry, do not expose it to rain, water drops or wet floor;
- Keep it away from water and direct sunlight, and in its original wrapping;
- Don't move it over irregular surfaces, protect it from rain and observe the maximum stack quantity specified in the packaging;

Environmental condition for transportation or storage:

- Room temperature range for transportation or storage -29°C to +60°C.
- Relative humidity range for transportation or storage 20% to 90%.
- Atmospheric pressure range 500hPa to 1060 hPa (375 mmHg to 795 mmHg).

Environmental condition for storage (among the operations):

- Room temperature range for storage -10°C to +55°C.
- Recommended room temperature range +15°C to +30°C.
- Relative humidity range for storage 30% to 75%.
- Atmospheric pressure range 700 hPa to 1060 hPa (525 mmHg to 795 mmHg).

Environmental operation condition:

- Room temperature range for functioning +10°C to +40°C.
- Recommended room temperature range +21°C to +26°C.
- Relative humidity range for functioning 30% to 75%.
- Atmospheric pressure range 700 hPa to 1060 hPa (525 mmHg to 795 mmHg).
- Operation altitude: ≤2000m.

### PRECAUTIONS, RESTRICTIONS AND WARNINGS



#### Attention

The Equipment maintains its condition of safety and efficacy, provided that it is maintained (stored) as mentioned in this instruction of use. Thus, the equipment will not lose or alter its physical and dimensional features.

### Sensibility to predictable environmental conditions in regular use conditions



#### Warnings

- Syncrus Dental Chair requires special care in terms of electromagnetic compatibility and needs to be installed and put into operation according to information on electromagnetic compatibility provided in this manual.
- The communication equipment of mobile and portable RF may affect electric medical equipment.
- The use of a cable, transducer or other accessory different from those specified in this manual, and/or the replacement of inner components of those equipment may result in the increasing of emissions or reduction of the electromagnetic immunity of the equipment.
- It is not convenient that the Syncrus Dental Chair be used near to or Piled over other equipment, in case of the use near to or piled over is necessary, it is convenient that the Syncrus Dental Chair be observed to check if it is working properly in the configuration to be used.

### Precaution and warnings “during the installation” of the equipment

- This equipment can only be unpacked and installed by an Alliage authorized technician, under the penalty of losing the warranty, as only them possess the information, the proper tools and the required training for carrying out this task.
- Manufacturer does not take this responsibility for damage or accidents caused due to a bad installation performed by a technician non-authorized by Alliage.
- Only after the equipment is installed and properly tested by the Alliage authorized technician, it will be ready to start the working operations.
- Install the unit in a place where it will not be damaged by the pressure, temperature, humidity, direct sunlight, dust, salts.
- The unit should not be submitted to inclination, excessive vibrations, or blows (including during transportation and handling).
- This equipment was not planned for use in an environment where vapors, anesthetic mixtures inflammable with air, or oxygen and nitrous oxide can be detected.
- Check the voltage of the equipment at the moment of executing the electrical installation.
- Before the first use and/or after long interruptions from work such as vacations, clean and disinfect the equipment.

### Precautions and warnings “during the use” of equipment

- The equipment should only be operated by duly enabled and trained technicians (Dental Surgeons, Capacitated Professionals).
- If any maintenance should be required, only use services of the Alliage Authorized Technical Assistance.
- The equipment has been manufactured to handle both continuous and intermittent operation; so follow the cycles described in these Instructions for Use.
- Although this equipment has been planned in accordance with the standards of electromagnetic compatibility, it can, in very extreme conditions, cause interference with other equipment. Do not use this equipment together with other devices very sensitive to interference or with devices which create high electromagnetic disturbance.

### PRECAUTIONS, RESTRICTIONS AND WARNINGS

- Do not expose the plastic parts to contact with chemical substances, use in the routines of dental treatment, such as: acids, mercury, acrylic liquids, amalgams, etc.
- When moving the chair, never get it for the part of the support of the legs, lift it for the structure in the area of the seat.

Manufacturer shall not be responsible for:

Use of the equipment differing from that for which it is intended.

- Damages caused to the equipment, the professional and/or the patient by the incorrect installation and erroneous procedures of maintenance, differing from those described in these Instructions for use which come with the equipment or by the incorrect operation of it.

#### Precautions and warnings “after” the use of equipment

- Turn off the main switch of the dental set when it is not in use for an extended period of time.
- Always maintain the equipment clean for the next operation.
- Do not modify any part of the equipment. Do not disconnect the cable or other connections without need.
- After using the equipment, clean and disinfect all the parts which may be in contact with the patient.
- When noticing the presence of irremovable stains, cracks or fissures in water reservoirs, Bio-System, light ducts or at the ocular protector, please arrange the replacement of the damaged components.

#### Precautions and warnings during the “cleaning and disinfection” of equipment



Care for the cleaning of (laminated PVC "courvin", leather or ultraleather) Upholstery:

- Never use any type of alcohol, microabrasive material, detergents containing solvents such as ether or stain remover for cleaning of upholstery, because it may cause stains.

Procedure for cleaning of (laminated PVC "courvin" or ultraleather) upholstery:

- We recommend using the a damp cloth with a mild soap.

Procedure for cleaning of leather upholstery:

- For cleansing and moisturizing of the leather upholstery, we recommend the use of exclusive products for this purpose.
- Never soak or scrub forcefully the leather. If dirt falls on the leather staining it, clean it immediately with a damp cloth with a mild soap.

#### Precautions in case of alteration in the functioning of equipment

- If the equipment has any abnormality, check if the problem is related to any item listed in the topic of unforeseen events (failures, causes and solutions). If it is not possible to resolve the problem, turn off the equipment, remove the power supply cable from the socket and contact your representative Alliage.

#### Precautions to be adopted against foreseeable or uncommon risks, related to the deactivation and abandoning of equipment

In order to avoid environmental contamination or undue use of the Equipment after it has become useless, it should be discarded in the suitable place (as per the local legislation of the country). Pay attention to the local legislation of the country for the conditions of installation and disposal of residue.

# CORRECTIVE AND PREVENTIVE MAINTENANCE AND PRESERVATION

## Additional procedures for reuse

The equipment can be reused in undetermined, i.e. unlimited, quantities, only needing to be cleaned and disinfected.

## Cleaning

Important: In order to execute cleaning or any type of maintenance, ensure that the equipment is disconnected from the electrical network.



### Attention

- In order to prevent risks and damages to equipment, make sure that the liquid does not enter into the equipment.
- To cleaning the equipment, using the damp cloth with a mild soap. The application of other solvent-based cleaning products or sodium hypochloride isn't recommended, because they may damage the equipment.

## Disinfection

- Use clean and soft cloth dampened in alcohol 70% to disinfection of the equipment. (EXCEPT FOR UPHOLSTERY).
- Never use corrosive disinfectants or solvents.



### Warning

For preventing contamination, use gloves and other protection systems during disinfection. Even that, during the procedures, gloves are used, after removing gloves the hands must be washed out.

## Preventive Maintenance

The equipment must suffer routinely measurements, following the current legislation of the country. But, never with a period superior to 3 years.

For protecting your equipment, look for a Alliage' technical assistance for periodic reviews as preventive maintenances.

## Corrective Maintenance

The supplying of the circuits' diagram, Part lists or any other information that permits the technical assistance by the user, can be requested, since previously agreed.




### Attention

In case of the equipment presents any abnormality; check if the problem is related to some of the listed items under the item unpredictable (situation, cause and solution).

If it's not possible to solve the problem, shutdown the equipment and demand the presence of a technician from the nearest resale, or ask through the Attendance Service Alliage: + 55 (16) 3512-1212.



UNFORESEEN EVENTS – SOLUTION OF PROBLEMS

 Upon coming across any problem in operation, follow the instructions below to check and repair the problem, and/or get in touch with your representative.

Problem	Probable Cause	Solution
- Chair is not working.	- Plug disconnected from socket. -Power cut. - Main switch is off. - Burned fuse(s).	- Connect plug to socket.  -Wait until power is back. -Switch the main switch on. -Turn off the chair from mains power and request a Technician presence.

EQUIPMENT’S WARRANTY

This equipment is covered by the warranty terms and norms contained in the Warranty Certificate that accompany the product.

FINAL CONSIDERATIONS

Among the care you have to take with your equipment, the most important is regarding of the spare parts replacement.

To ensure the lifetime of your device, only replace original spare parts. They have the assurance of the standards and technical specifications required by the Alliage representative.

We call your attention to our authorized resellers’ chain. Only this chain will keep your equipment constantly new, because it has trained technical assistant and specific tools for the correct maintenance of your device.

Whenever you need, demand the presence of a Alliage’ technician from the nearest resale, or ask through the Attendance Service Alliage: + 55 (16) 3512-1212.







CINTERQUAL - Soluções de  
Comércio Internacional, Lda.  
Rua Fran Pacheco Nº220 2º And  
2900-374 Setúbal, Portugal

NUM. REG. ANVISA: 10069210062

