

Specification Sheet

H.S.K. No	D E S C R I P T I O N	Q'TY / UNIT
9018.49-2000	Dental unit chair system "TAURUS SANTE" (SHINHUNG CO., LTD.)	1 Set

A. Features:

1. For education, diagnosis and patient treatment.
2. Consist of Dental Unit Assembly including cuspidor with suction devices, dental chair, dental operating light, and one stool for dentist, other necessary parts and components.
3. Ergonomic design and total infection control system.
4. It is designed to meet today's stringent infection control demands with ease.
5. A variety of intelligent features assure top-level infection control all instruments including high speed handpieces, 3-way and suction devices and Air-motor are fully autoclavable.
6. Tube lifter equipped for the realization of hygiene.
7. The lifter keeps tubes clean and out of the way by gently retracting them away from the floor and towards the rear of the tray table.
8. Urethane upholstery is seamless and can be cleaned with alcohol.
9. Single-sided backrest hinge allows easy cleaning between seat sections.
10. Flat touch panel controls for easier cleaning.
11. It is controlled by central integrated circuit (I.C)
12. The patient can be relaxed & comfortable in the synchronized movement of chair.

B. Specifications:

1. Dental unit

1) Type: chair mounted unit.

2) Doctor side element includes:

(1) Silicone Tubing for High speed Handpieces -----2 ea.

- ① Available with 2(3)-hole Borden, 4-hole Midwest type connector
Fiber optic connector (optional)
- ② can be disinfected with alcohol

(2) Silicone Tubing for Low speed Handpiece -----1 ea.

- ① Type for Air Motor or Electric Micromotor
- ② can be disinfected with alcohol

(3) Three-way syringe -----1 ea.

- ① Sirona Sprayvit: plastic housing – very light in weight and easy to handle
- ② For air, water and spray
- ③ Tip is removable and easily autoclavable | tip totatable
- ④ Silicone tube can be disinfected with alcohol.

(4) Bracket table: Ergonomically design -----1 set

- ① Bracket table features a wide range of movement to accommodate dentists' various preference on working position.
- ② Instrument holder has micro-switch to detect whether instruments are taken out from holder for use. Priority circuit integrated in instrument holder allows only first-taken instrument to be operated for ensuring a safety.
- ③ Instrument holder has a pivot-rotation so that it can be positioned independently away from the position of bracket table.
- ④ Safety in lifting instruments is taken into the consideration for Layout of instrument position on holder.
- ⑤ The instrument holder design guides handpieces and syringes back into their original positions easily after use.
- ⑥ Quick-detachable table handle is of silicone cover and also autoclavable.
- ⑦ Detachable instrument holder plastic cover can be disinfected with alcohol.
- ⑧ Control switch panel on left side (near to operator) of table for ease access and operation.
- ⑨ Switches of frequent use on panel are highlighted in color for reliable operation.
- ⑩ Aseptic touch control panel, all grouped in one place for easy access. (some functions optional)

Control panel is controlling:

- Selection of chair Auto position:
 - Treatment position (1,2), zero position
 - Mouth rinse position, Soft memory position
 - Manual adjustment of chair position: Seat up/down, backrest up/down
 - Memory of chair Auto position
 - Countdown timer
 - On/off of Water spray of handpiece (even after instruments go back to holder, last selected mode is memorized)
 - On/off of fiber optic of high speed handpiece (even after instruments go back to holder, last selected mode is memorized)
 - On /off of Operating light
 - Control of speed range of micromotor
 - Rotation direction of micromotor (clockwise / counterclockwise)
- ⑪ LCD on control panel shows information related to instrument in use.
 - ⑫ Panel can be disinfected with alcohol.
 - ⑬ Standard size (intraoral) x-ray film viewer attached
 - ⑭ Silicone rubber sheet on the tray is autoclavable.

3) Assistant's side element includes:

(1) Three-way syringe-----1 ea.

- ① Sirona Sprayvit: plastic housing – very light in weight and easy to handle
- ② For air, water and spray
- ③ Tip is removable and easily autoclavable
- ④ Silicone tube can be disinfected with alcohol.

(2) High volume evacuator -----1 ea.

- ① Lever for controlling suction volume
- ② Aseptic tube can be disinfected with alcohol
- ③ Available for central / air venturi suction
- ④ Easy to disassemble for cleaning. Vacuum valve 135 °C autoclavable

(3) Saliva ejector ----- 1 ea.

- ① Lever for controlling suction volume
- ② Aseptic tube can be disinfected with alcohol
- ③ Available for central / air / water venturi suction
- ④ Easy to disassemble for cleaning. Ejector valve 135 °C autoclavable

(4) Detachable glass spittoon ----- 1 ea.

- ① Reinforced glass material
- ② Spittoon bowl can be detached for efficient and easy cleaning.
- ③ Spittoon bowl is flushed out with water automatically after cup filling (amount of water for flushing can be adjusted)
- ④ Water warmer is mounted

(5) Assistant's instrument holder

- ① Mounted on extendable arm and swiveling for the best position
- ② Control panel is controlling
 - Selection of chair Auto position:
Treatment position (1,2), zero position.
 - Mouth rinse position, Soft memory position
 - Manual filling of cup
 - Manual flushing of spittoon bowl
 - Operating light intensity (in 3 steps)
- ③ Support table is mounted for putting small instruments during a treatment

(6) Safety stop system:

When Assistant's instrument holder comes into a contact with obstacles during downward movement it will automatically stop and goes up a little to ensure the space for safety.

2. Dental chair

(1) Type : Oil hydraulic motor drive system

(2) Elevation range : Minimum. : 480 mm/*520mm ± 10 mm (*when backrest is fully tilted down)
Maximum: 710/*740 mm ± 10 mm (*when backrest is fully tilted down)

Step type is higher by 40mm

(3) Chair length : max.1820mm

(4) Backrest angle adjustment :

- 2 ± 2 degree reclines below horizontal for trendelenburg position.
- 80 ± 2 degree upright for treatment and seated position. :

(5) Tilting :

All movements activated by means of one footswitch located on rear right or left side of chair.

(6) Chair Auto position includes:

Chair provides three programmable automatic positions:

- ① Treatment position 1
- ② Treatment position 2
- ③ Reset (zero) position

- (7) Safety stop system :
When the backrest comes into a contact with obstacles during downward movement it will automatically stop and goes up a little to ensure the space for safety.
- (8) Simple, aseptic chair housing.
- (9) Chair has one footswitch for latest in asepsis design
- (10) Contour design of chair provides excellent patient support.
- (11) Upholstery :
 - Seamless urethane material
 - Can be disinfected with alcohol.
- (12) Headrest (natural movement headrest) :
 - The headrest's movement is precisely matched to the movement of the patient neck so there is no uncomfortable sliding of the head.
 - Seamless headrest upholstery
- (13) Included electric main switch
- (14) Emergency stop function
In case of emergency during chair's movement to Auto position, any of following ways stops chair's movement (totally 7 ways).
 - Lifting up assistant holder upward in an instant
 - Turn OFF main switch
 - Push backrest to patient direction in an instant
 - Press any lever of foot controller
 - Press main pedal of foot controller
 - Press any switch related to chair position on dentist control panel
 - Press any switch related to chair position on assistant control panel

3. Other parts

- (1) Automatic cup filler -----1 ea.
 - Full optical type Auto cup filler.
First sensor starting cup-filling when cup is placed and second sensor measuring water level in a cup and cutting cup-filling at set level (water level can be adjusted)
 - Automatic cup filler works with paper or metal cups.
- (2) Operating lights -----1 ea.
 - 1) The light is post-mounted. Long lasting quartz halogen bulb.
 - 2) Auto-light function
 - During chair's movement for Auto position, light OFF automatically
 - In case instruments are taken out from holder, light ON automatically
 - On the moment chair gets to Auto treatment position, light ON automatically
 - 3) Detachable, autoclavable light handle.
 - 4) Light intensity: Max. 20,000 ± 2,000 Lux
 Low: 8,000 Lux Middle: 15,000 Lux High: 20,000 Lux
 - 5) Color temperature: 4,200 ± 2,000 Kelvin
 - 6) Knob for adjusting Light pattern is mounted on rear side of light head.

(3) Foot controllers ----- 1 ea.

- All manual movements of chair are also controllable with foot controller.
(Chair elevation range, Backrest angle)
- Control on-off for operating light.
- Control on-off for ultrasonic scaler
- Control handpiece speed.

(4) Operating stool (Optional)

1) 'Sante stool' (for dentist)

- Gas cylinder type, ergonomic type seat
- Backrest can be tilted ergonomically (tilting on/off and tension selectable by lever)
- Seamless upholstery: Easy cleaning with alcohol.
- Smooth operation 5 castors.
- Elevation Range : Min.460mm - Max.570mm
- Width: 540mm
- Weight: 14kg

2) 'Taurus stool' (for assistant)

- Gas cylinder type, round type seat
- Seamless upholstery: Easy cleaning with alcohol.
- Smooth operation 5 castors.
- Elevation Range : Min.470mm - Max.620mm
- Width: 570mm
- Weight: 13.7kg

4. Electric Power : AC 220V, 60Hz. (Adjustable to local voltage)

5. Power consumption: 1.5 kVA