

ALLIAGE PREVENTIVE MAINTENANCE PLAN

REVISION: DECEMBER 2024

DENTAL CHAIRS

Before starting preventive maintenance, check that the product is working correctly.

Biannual:

- Measure the transformer output voltage (12v/14v/24v);
- Test all seat and backrest movements and identify any anomalies;
- Check the operation of the motor micro switches;
- Test all pedal controls;
- Lubricate the motor spindle;
- Lubricate the headrest rod;
- Check the noise level of the motor and joints;

Quarterly:

- Cleaning and hydrating leather upholstery;

Annual:

- Lubricate the axle/stand joints;
- Check the general tightness of the screws;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Measure the transformer output voltage (12v/14v/24v);					X	
Test all seat and backrest movements and identify any anomalies					X	
Check the operation of the motor micro switches					X	
Test all pedal controls					X	
Lubricate the motor spindle					X	
Lubricate the headrest rod					X	
Check the noise level of the motor and joints					X	
Cleaning and hydrating leather upholstery				X		
Lubricate the axle/stand joints						X
Checking the general tightness of the screws						X

DELIVERY UNIT

Before starting preventive maintenance, check that the product is working correctly.

Biannual:

- Test all controls on the PAD;
- Check/adjust the spring tension of the articulated arm;
- Check the wear of the pneumatic brake corks;
- Lubricate the joint shafts of the attached equipment;
- Check the condition of the internal and external hoses;
- Check the wear of the pilot actuation levers;
- Clean and lubricate the triple syringe buttons;
- Lubricate the pilots with silicone grease;
- Lubricate the plunger and replace the O-rings of the tip adjustment valve;
- Measure/adjust the dynamic air pressure at the high and low rotation terminals;
- Measure/adjust the spray of the handpieces;
- Remove residue (dental floss, etc.) from the casters of the cart and stool type equipment;
- Lubricate the rings of the taps of the equipment terminals;

Annual:

- Check that the wheels of Cart-type equipment are intact and free from damage;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Test all commands on the PAD					X	
Check/adjust the spring tension of the articulated arm					X	
Check wear of pneumatic brake corks					X	
Lubricate the joint shafts of the attached equipment					X	
Check the condition of the internal and external hoses					X	
Check wear on the pilot actuation levers					X	
Clean and lubricate the triple syringe buttons					X	
Lubricate the pilots with silicone grease					X	
Lubricate the plunger and replace the O-rings on the tip adjustment valve						
Measure/adjust the dynamic air pressure at the high and low rotation terminals					X	
Measure/adjust the spray of the handpieces					X	
Remove residue (dental floss, etc.) from the casters of the cart and stool type equipment	X					
Lubricate the rings of the taps of the equipment terminals					X	
Check that the wheels of Cart-type equipment are intact and free from damage.						X

AUXILIARY UNITS (SPITTING UNITS)

Before starting preventive maintenance, check that the product is working correctly.

Daily:

- Clean the basins;
- Clean the waste separators;
- Dilute germicide in water, suction with the cannulas and throw the remainder into the basin;

Biannual:

- Lubricate the pilots with silicone grease;
- Check the pressure of the regulating valve (40 PSI) and seal it in case of adjustment;
- Clean (wash and unclog) the Venturi, VacPlus and Vacuum Pump suction systems;
- Clean (wash and unclog) the drain system;
- Inspect the integrity of the hoses in general;
- Check the inlet pressures (80 PSI);
- Clean the sewage box;

Annual:

- Check for wear on the water valve rings;
- Replace the flushing system water bottle;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Clean the basins	X					
Clean the waste separators	X					
Dilute germicide in the water, suction with the cannulas and throw the rest into the basin	X					
Lubricate the pilots with silicone grease					X	
Check the pressure of the regulating valve (40 PSI) and seal if necessary					X	
Clean (wash and unclog) the Venturi, VacPlus and Vacuum Pump suction systems					X	
Check the inlet pressures (80 PSI)					X	
Clean (wash and unclog) the drain system					X	
Inspect the integrity of the hoses in general					X	
Clean the sewage box					X	
Check for wear on the water valve rings						X
Replace the water bottle in the flushing system						X

DENTAL LIGHT

Before starting preventive maintenance, check that the product is working correctly.

Weekly:

- Clean the deflector mirror and front lens (Sirius);

Biannual:

- Lubricate the straight arm/dental light pipe articulation;
- Lubricate the shaft/headstock and straight arm/movable arm;
- Check the pressure of the cylinder headstock shaft friction screws (Sirius);
- Check condition of cables;
- Check operation, whether there are any burned-out bulbs and test the three lighting intensities;
- Adjust the spring pressure of the articulated arm;
- Check the movements of the headstock articulation on the shaft itself;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Cleaning the deflector mirror and front lens (Sirius)		X				
Lubricate the straight arm/dental light pipe articulation					X	
Lubricate the shaft/headstock and straight arm/movable arm					X	
Check the pressure of the cylinder headstock shaft friction screws (Sirius)					X	
Check condition of cables					X	
Check operation, whether there are any burned-out bulbs and test the three lighting intensities					X	
Adjust the spring pressure of the articulated arm					X	
Check the movements of the headstock articulation on the shaft itself					X	

VACUUM PUMP

Before starting preventive maintenance, check that the product is working correctly.

Weekly:

- Check for water leaks in the pump;
- Check the pump noise level;

Quarterly:

- Clean the vacuum pump water filter;
- Clean the vacuum pump suction filter;

Biannual:

- Check conditions of cables and contact terminals;
- Measure the suction power with a vacuum gauge (min. 400 mmHg for ½ HP and 500 mmHG for 1 HP);
- Check the pump water regulation (450 ml/min for ½ HP and 900 ml/min for 1 HP);
- Check the sealing of the solenoid valve;
- Replace the vacuum pump water filter;
- Replace the vacuum pump suction filter;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Check for water leaks in the pump		X				
Check the pump noise level		X				
Clean the vacuum pump water filter				X		
Clean the vacuum pump suction filter				X		
Check conditions of cables and contact terminals					X	
Measure the suction power with a vacuum gauge (min. 400 mmHg for ½ HP and 500 mmHG for 1 HP)					X	
Check the pump water regulation (450 ml/min for ½ HP and 900 ml/min for 1 HP)					X	
Check the sealing of the solenoid valve					X	
Replace the vacuum pump water filter					X	
Replace the vacuum pump suction filter					X	

AUTOCLAVES

Before starting preventive maintenance, check that the product is working correctly.

Daily:

- Monitor sterilization with chemical testing;

Weekly:

- Clean the filter located in the internal chamber;
- Clean the door sealing rubber, checking for cracks;

Monthly:

- Clean the inside of the chamber;

Biannual:

- Check the operation of the handle and door pressure;
- Check the condition of the door safety and anti-vacuum valves;
- Check thermomanometer measurements;
- Check that there are no leaks in the connections;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Monitor sterilization with chemical testing	X					
Clean the filter located in the internal chamber		X				
Clean the door sealing rubber, checking for cracks		X				
Clean the inside of the chamber			X			
Check the operation of the handle and door pressure					X	
Check the condition of the door safety and anti-vacuum valves					X	
Check thermomanometer measurements					X	
Check that there are no leaks in the connections					X	

BICARBONATE JET

Before starting preventive maintenance, check that the product is working correctly.

Daily:

- Daily care to only fill with the amount of powder that you are going to use;
- After each procedure, remove the residual bicarbonate from the reservoir and circulate air in the circuit for internal cleaning;

Biannual:

- Check the jet spray, checking that there are no blockages or dents in the injector body and injector nozzle;
- Check the dust swirling and the jet “removal” efficiency;
- Measure the dynamic pressure of the powder reservoir (55 to 65 PSI);

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Daily care to only fill with the amount of powder that you are going to use	X					
After each procedure, remove the residual bicarbonate from the reservoir and circulate air in the circuit for internal cleaning	X					
Check the jet spray, checking that there are no blockages or dents in the injector body and injector nozzle					X	
Check the dust swirling and the jet “removal” efficiency					X	
Measure the dynamic pressure of the powder reservoir (55 to 65 PSI);					X	

ULTRASOUND PEN

Before starting preventive maintenance, check that the product is working correctly.

Monthly:

- Check the tips for wear;

Biannual:

- Measure the ultrasound frequency with a frequency meter (from 24 to 29 KHz);
- Adjust the frequency on channels S1 and S2, as per the technical bulletin;
- Clean the inside of the device;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Check the tips for wear			X			
Measure the ultrasound frequency with a frequency meter (from 24 to 29 KHz)					X	
Adjust the frequency on channels S1 and S2, as per the technical bulletin					X	
Clean the inside of the device					X	

X-RAY

Before starting preventive maintenance, check that the product is working correctly.

Biannual:

- Check rotation limits on the headstock and arms;
- Check pressure on cylinder headstock fork fixing bolts;
- Lubricate the headstock shaft;
- Check the tightness of the screws on the base (applicable to the mobile model);
- Check arm spring pressure;
- Check the level of the arm with a bubble level (applicable to the wall model);

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Check rotation limits on the headstock and arms					X	
Check pressure on cylinder headstock fork fixing bolts					X	
Lubricate the headstock shaft					X	
Check the tightness of the screws on the base (applicable to the mobile model)					X	
Check arm spring pressure					X	
Check the level of the arm with a bubble level (applicable to the wall model)					X	

LIGHT CURING

Before starting preventive maintenance, check that the product is working correctly.

Daily:

- Cleaning the fiber optic tip with water and mild soap;

Biannual:

- Measure the light power with the radiometer (Value range between 1,000 and 1,800 mW/cm²);

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Cleaning the fiber optic tip with water and mild soap	X					
Measure the light power with the radiometer (Value range between 1,000 and 1,800 mW/cm ²)					X	

HANDPIECES

Before starting preventive maintenance, check that the product is working correctly.

Daily:

- Lubricate before each sterilization cycle and at least 3 times a day (beginning, middle and end of the workday);
- Monitor for abnormal noises or if the equipment presents any operating anomalies;
- Check that the drill bit being used is not misaligned (audible noise);
- Check that the drill is properly fixed according to the fixing instructions in the owner's manual;

Monthly:

- Water Leakage - Check the spray holes for water leaks;
- Check that the handpiece gasket is not cut or worn;
- Clogging: Check if the spray holes are clogged or obstructed;

VERIFICATIONS	CUSTOMER				TECHNICAL	
	Daily	Weekly	Monthly	Quarterly	Biannual	Annual
Lubricate before each sterilization cycle and at least 3 times a day (beginning, middle and end of the workday).	X					
Monitor for abnormal noises or if the equipment presents any operating anomalies.	X					
Check that the drill bit being used is not misaligned (audible noise).	X					
Check that the drill is properly fixed according to the fixing instructions in the owner's manual.	X					
Water Leakage - Check the spray holes for water leaks.		X				
Check that the handpiece gasket is not cut or worn.		X				
Clogging: Check if the spray holes are clogged or obstructed.		X				