OSADA, INC.

DRILL HANDPIECE MAINTENANCE

OSADA SH-SERIES STRAIGHT HANDPIECE WITH NOSE GUARDS

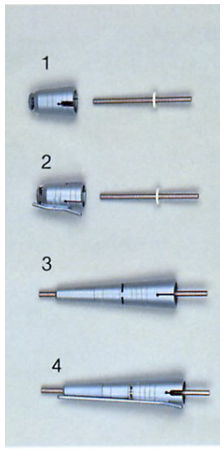
SH-Series Straight Handpieces must have removable nose guards: S (short) and SP (short with pipe), or L (long for 65mm or longer burs) and LP with embedded bearings. A silicone disc must be placed inside the cover. Previous models SH-132 and SH-032 have been retrofitted (when serviced) to have the same feature.

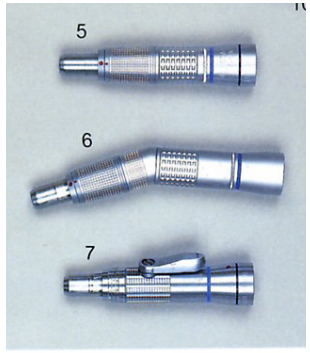
Nose Guard "S"

Nose Guard "SP"

Nose Cone "L"

Nose Cone "LP"





SH26 1:1
Twist type

SH31 1:2
Twist type

SH28 1:1
Latch Type

With straight burs with the shank length of 45mm to 59mm: Use Nose Guard S (short) or SP (short with pipe). The nose guard with a silicone disc helps to block debris from entering inside. The Nose Guard, that is removable from the main body of the handpiece for easy cleaning, consists of a nose cover and a small silicone disc, as shown above. Burs can be changed without disturbing the position of the Nose Guard. Make sure that the bur is seated fully in the chuck (inserted until it stops) in order to acquire full friction grip chucking power.

With straight burs longer than 65mm: Use a nose cone L (Long) or LP (Long with pipe). Do not use burs shorter than 65mm with L or LP Nose cones (the cutting head of the bur will scrape the tip of the nose cone).

Silicone disc must be replaced when it no longer rotates with the inserted bur. Petroleum jelly on a new silicone disc will remedy the occasional squeaking noise when the bur is in rotation.

With dental attachments (such as a prophy angle on SH28 handpiece), pull out the nose cover and the bur with silicone disc from the chuck, and attach the angle over the bare handpiece nose. Make sure to replace the nose guard when a straight bur is used.

DRY CLEANING (NON-SURGICAL USE): Occasionally wash the nose cover with tap water and towel dry (a Q-tip may help). Clean the exposed handpiece with a tooth brush. Do not allow any solution to seep into the seams. DO NOT SPRAY OIL OR AUTOCLAVE THE HANDPIECE IF IT IS USED ONLY FOR NON-SURGICAL APPLICATIONS. Rubbing alcohol may be used to moisten the cleaning cloth.

See reverse side for MAINTENANCE FOR SURGICAL APPLICATIONS.

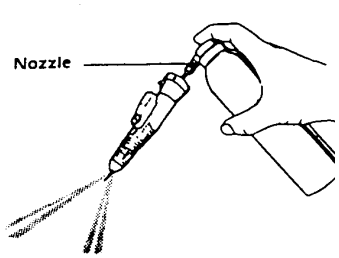
MAINTENANCE OF SH-SERIES STRAIGHT HANDPIECES
SURGICAL APPLICATIONS

AUTOCLAVABLE HANDPIECES (silver colored): SH26, SH27, SH28, SH29, SH31, SH41, S, SP Nose Guards and L, LP Long Nose Cones

Always use Osada's spray oil before steam autoclaving to prevent damage. Osada's spray oil works as a cleanser and lubricant.
Following a surgery, pull off the handpiece (silver) from the micromotor (black), and spray oil before the blood or other fluid coagulates. Steam autoclave the handpiece and AMC or LAMC removable autoclavable motor casing. No oiling is required after steam autoclaving.

(1) **EXTERNAL CLEANING:** Pull and separate the handpiece from the micromotor. Wipe clean the handpiece. If needed, wash off any surface debris with running water (Seal the bottom opening. Don't let water enter inside the handpiece), and towel dry.
Pull off the S or SP Nose Guard from the body. Wash separately and towel dry. Ready for (3) Steam Autoclaving. Treat the L or LP Long Nose Cone as a handpiece.

(2) **INTERNAL CLEANING WITH SPRAY OIL:**
Hold the handpiece in a paper towel. Insert the oil nozzle into the open end and spray oil to purge internal debris (blood, etc.) until clean oil comes out of the opposite end.
Wipe clean and stand upright on a paper towel to drain excess oil



NOTE: Spray oil penetrates better when handpiece has a bur chucked in, even though higher pressure may be felt. Chucking mechanism (especially twist type) stays smoother and easy if a bur is kept chucked in all the time.
A blank bur, or a test bar (unlike surgical burs, hard to rust) works well in oiling and autoclaving.

(3) **STEAM AUTOCLAVING:** Place the cleaned / oiled handpiece with nose guard in an envelope. Keep the envelope away from the walls in the autoclave.
Steam autoclave at 132° C for 15-20 minutes, followed by a drying cycle of 8 minutes.
If a prevacuumed cycle is used, steam autoclave for 5 minutes, followed by a drying cycle of 8 minutes. An autoclavable handpiece stand may be used to keep the handpiece upright. No further oiling is required.

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Before each surgery, try run to make sure the instruments are in good working condition.
If irregular noise or heating up occurs,
DO NOT USE THIS HANDPICE ASSEMBLY - SEND IT IN FOR SERVICE.

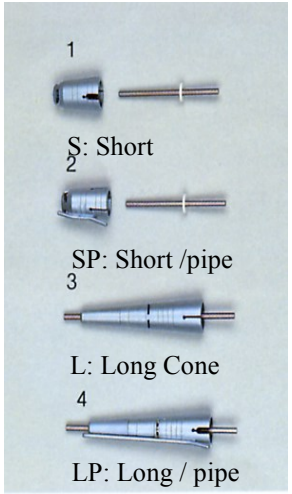
DO NOT IMMERSE HANDPIECE IN ANY SOLUTION OR ULTRASONIC CLEANER.
Rubbing alcohol may be used to moisten the cleaning cloth.
Do not use disinfectant solution to clean handpiece.
DRY HEAT and CHEMICLAVING are NOT RECOMMENDED.
Autoclaving the handpiece without proper cleaning and oiling first may result in severe damage.

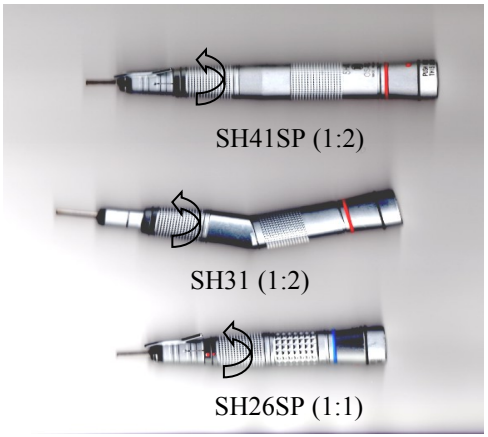
DO NOT AUTOCLAVE MICROMOTORS AND CORDS. Only AMC/LAMC removable motor casings are autoclavable. Handpiece/Micromotor/Cord may be gas-sterilized.

For servicing, send handpiece assembly including the cord to:

Osada, Inc. 3000 S. Robertson Blvd., Suite 130, Los Angeles, CA 90034
Phone: (310) 841-2220 or (800) 426-7232
www.osadausa.com

TWIST RING TYPE STRAIGHT HANDPIECES





BURS AND NOSE GUARDS

BUR SHANK SIZE: ø2.35 MM

NOSE GUARD **S** OR **SP**; BUR LENGTH 40 MM ≤ 67 MM (use a Silicone Disc)
NOSE CONE **L** OR **LP**: BUR LENGTH 68MM ≤ 78MM

TWIST RING TYPE HANDPIECES

CLOSED position with a bur: the red dot of twist ring aligned to the red dot. To OPEN the chuck, twist the ring in arrowed direction until the red dot on the chucking ring will align with the black dot on the locking ring to free the bur.

While holding the chucking ring in open position, insert a bur and close the chuck to secure. (The friction grip can be tested by pulling the bur off).

It is advisable to keep a bur chucked in while the handpiece is not in use to help maintain the chucking power and also making the chuck opening easier.

Installation of the handpiece to the micromotor

Install an autoclavable motorcasing over the micromotor, and twist the motorcasing to lock. Install a cleaned & autoclaved handpiece (silver) onto the micromotor (black) by placing the handpiece end through the junction and securely seat it at the bottom of the motorcasing. Incomplete engagement of the handpiece with micromotor could cause damage to the joint inside the micromotor.

Always test the handpiece before using in surgery.
Do not use a noisy, sluggish, freezing or heating handpiece.
Make sure the handpiece has a nose guard
(S or SP with a white silicone disc installed) or a long nose cone.

Special Maintenance Instructions for Long Handpieces in SH series Including SH27, SH29, SH31, SH42, and Saw Handpieces in surgical applications

The purpose of this instruction is to make sure that the spray oil will clean and purge debris from inside and penetrate throughout the hand-pieces (particularly longer handpieces) to lubricate to prepare for autoclaving.

1) After surgery, remove the nose guard/silicone disc/bur, and wash and dry separately from the handpiece.
2) Close the chuck of the handpiece with or without a bur and spray oil (cleanser / lubricant) from the back of the handpiece until clean oil comes out of the tip end. (No blood or debris stays inside and oil protects from rusting).
3) ******** PLACE THE OILED HANDPIECE UP-SIDE-DOWN SO THAT THE OIL INSIDE WILL FLOW TOWARD THE TIP OF THE HANDPIECE TO PENETRATE THROUGH THE FRONT BEARINGS AND EXCESS OIL WILL DRAIN OUTSIDE FROM THE TIP OF THE HAND-PIECE. READY FOR AUTOCLAVING.**
4) **AUTOCLAVE THE HANDPIECE WITH NOSE GUARD AND A BUR & SILICONE DISC. (If possible, keep the handpiece in upside-down position).**
5) **Install the clean handpiece on to the micro-motor SECURELY FOR FULL ENGAGEMENT.**

Special Instructions for SH42SP (or SH31SP) ***Double Speed Straight Handpiece***

Oral Surgery Double Speed Handpiece Assembly
SH42SP Handpiece + LVSA Micromotor + MCS8 Cord

CAUTION: *SH42 or SH31 is equipped with double speed mechanism meaning RPM of a bur installed in this handpiece runs twice as fast as the RPM of the driving micromotor.*

BE SAFE and KEEP THE BUR SPEED SLOWER THAN 45,000 rpm.
This means the speed setting on the power console to drive the micromotor should be less than 22,500 rpm.

Electric Handpiece System has a feedback circuitry to maintain high torque against any resistance (irregular binding including noisy bearings, etc.) and will not die down with pressure as in the high speed pneumatic drill system. (SH42 is an improved SH41, with a slightly longer body.)

CAUTION: The user must take a special care to make sure that the handpiece is maintained properly and works as it should without heating, binding, hesitating or noise when in operation.

Send the handpiece assembly including the motorcord to Osada, Inc. for quick service. Any questions, please call 800-426-7232.

To Minimize the Temperature Increase During the Surgery, TEST RUN BEFORE EACH SURGERY:

Adjust the power console setting to lower half rpm to achieve a bur speed of about 45,000 rpm, and activate to run for one minute. Although the handpiece may become very warm during the test run, this procedure helps to evenly distribute the oil in the handpiece, minimizing the temperature increase on the handpiece during surgery.
If any irregularity (noise, heating up, bent bur, etc.) is observed, do not use this handpiece until problems are resolved.

A long continuous running should be avoided.
Sufficient irrigation is always required at the surgical site.
Use a light touch when cutting.

Follow the attached instruction sheet for details.

MAINTENANCE OF SH-SERIES STRAIGHT HANDPIECES
For SURGICAL APPLICATIONS

1) After surgery, remove the nose guard/silicone disc/bur, and wash and dry separately from the handpiece. (DO NOT AUTOCLAVE MICROMOTOR AND CORD).
2) Close the chuck of the handpiece (with or without a bur) and spray oil (cleanser / lubricant) from the back of the handpiece until clean oil comes out of the tip end.
3) Let it stand upright to drain excess oil and autoclave (with a nose guard/bur installed).
4) Install the clean handpiece on to the micromotor securely for full engagement.

For servicing, send handpiece assembly including the cord to:
Osada, Inc. www.osadausa.com
3000 S. Robertson Blvd., Suite 130, Los Angeles, CA 90034
Phone: (800)426-7232, Fax (310) 841-2221