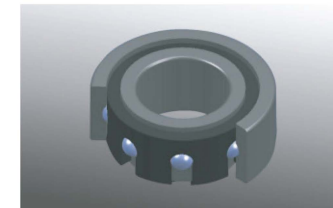




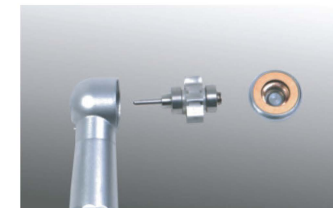
HANDPIECE



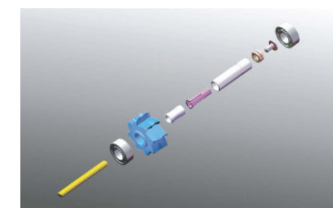
General advantages



High precise bearing ball: Adopt high-tech, import high precise ball bearing from Germany, which has many features as low noise, vibration free, long-lived n using.



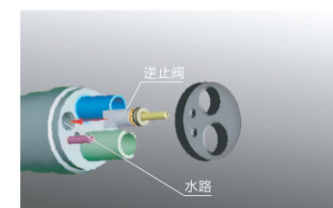
Perfect performance: Perfect technological design, high-quality materials and elaborate processing make the perfect performance.



Safety and reliability: Adopt precise cartridge complete from Europe make the push complete safe and reliable for curing.



Flexibility: 360° swift quick coupling which is easy for operation and reducing tiredness.



Anti-retraction system: Avoid contamination accompanied by water to enter the anti-retraction device when nandpiece stop working.



Convenient maintenance: SINOL handpiece can be sterilized with high temperature and pressure repeatedly.



Continuous cooling: One hole or more holes to spray cooling which is guarantee the preparation Area's complete cooling.



AJJ

HEALTHCARE MANAGEMENT PTE LTD

Handpiece specifications

- ♦ Optic fiber: Optic fiber imports transmit light which illumination ≥ 25000 lx ensures brightness at preparation area. The function will not decline even if sterilized by high temperature and pressure.
- ♦ Durable light: Imported durable bulb which voltage is $3.3V \pm 0.1V$, longevity ≥ 70 hours.



Easy handling: Anticorrosion and diamond-shaped groove are easy for cleaning, and human nature design for easy handling.



Convenient: Adopt push button structure, quick bur change.

Sooth operation: No vibration in high speed revolution, dynamic balance volume $\leq 150\mu g$, Dynamic pulse rate $\leq 0.015mm$

Handpiece series

Fiber optic high speed handpiece

Bush button, 3 points water spray, double air tracks, anti-reaction system, quick coupling, light guild vitreous, illumination $> 25000LUX$. LED



Series B high speed handpiece



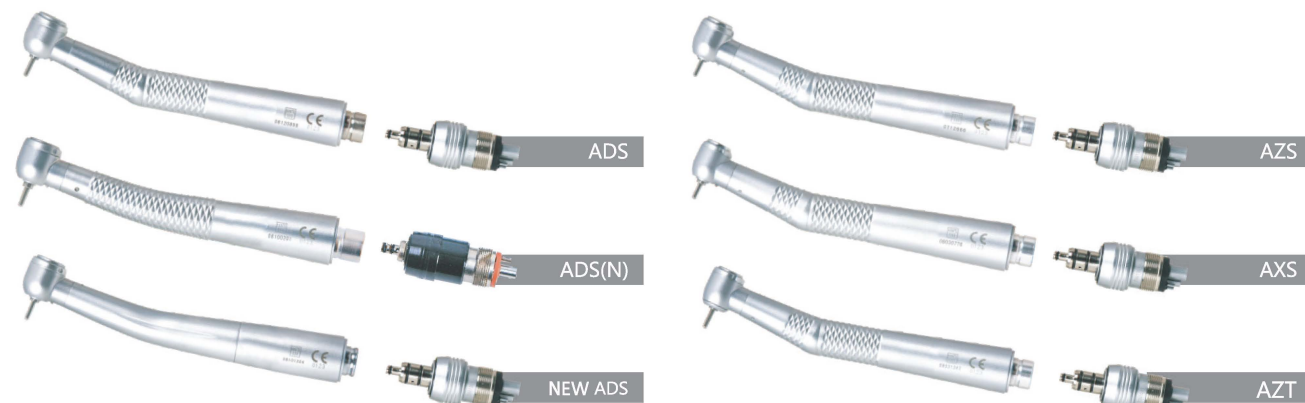
Push Button And Without Quick Coupling System 4-hole.



Push Button And Without Quick Coupling System 2-hole.

Series A high speed handpiece

Three types: Standard head-AD series, Medium head-AZ series, Mini head-AX series. Ball bearing, 310 000rpm, 360° rotatable, quick coupling with build-in anti-retraction system. (2-hole and 4 hole available)



Gripping system is imported from Bien Air.

4 point water spray, internal spray, cooling type of middle head.

Contra-angle block teeth high speed handpiece

Using for the block teeth operation.



BDZ



ADZ

High-quality, low noise, long life, strong power

- ◆ Germany imported ceramic bearings;
- ◆ The titanium surface
- ◆ Tread design for doctor operation
- ◆ According to the ergonomic design, the operation more precise;
- ◆ The lightweight body and a reasonable point of the center of gravity, doctors greatly reduce wrist fatigue
- ◆ Increase the head thick 0.2mm----- anti-bump design to prevent knock or broken when cleaned or operation

- ◆ NEW Turbo charging system: According to aerodynamic principles (reduced press and increase speed), the new BD adopts the optimized pipeline design for improve the speed of the wind wheel rotating line. The curved design of the wind wheel, increasing the force area, enhanced high-speed dynamic torque, After tested, the new BD is better than the imported goods.



BD-4(Ti)

Low speed handpiece

Low speed handpiece is using high technology and original design from European company. This handpiece adopt the ISO3964 standard and combines with air motor, contra angle, and straight handpiece. The connection of motor and connected pipe adopts the ISO9168 international standard.(2-hole and 4 hole available).



058x



043x



0224x



058i



043i



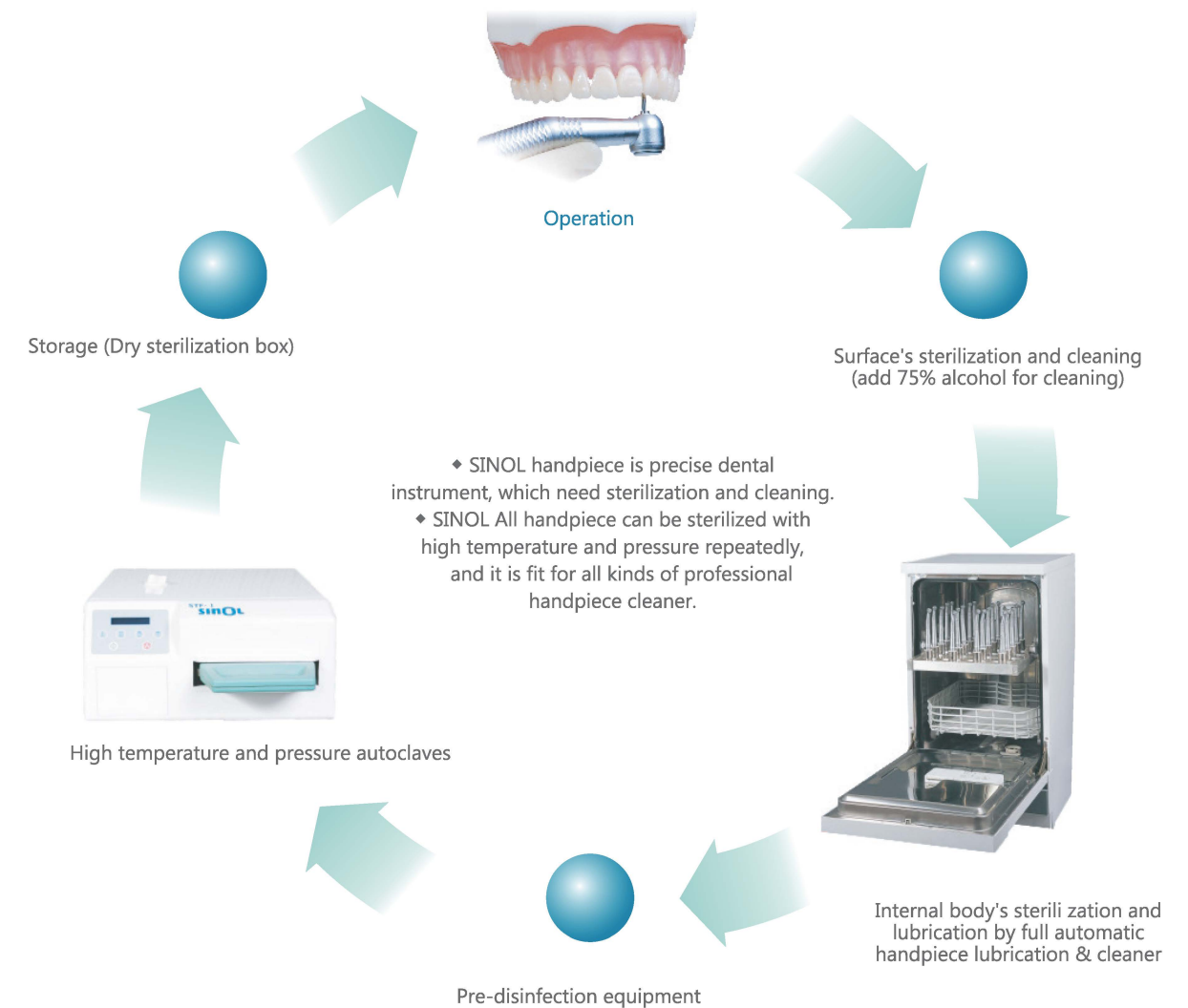
0224i

internal spray

Brushless electric motor system



Sterilization and cleaning chart of handpiece



Lubrication method



Series of B

Lubrication method for high speed handpiece:

- ◆ Lubrication for maintenance
- ◆ Revolution can not reach the standard
- ◆ Vibration, high noise.
- ◆ vibrated bearing



Series of A

- ◆ Dismount the handpiece from connecting pipe.
- ◆ Install different handpiece's lubricate nozzle on the spray nozzle well to avoid leak lubrication.
- ◆ Insert nozzle on back of handpiece body or air inlet ensure lubrication's well spray through handpiece until the clean lubrication comes out.

Lubrication method for low speed handpiece



Straight handpiece chart



Contra handpiece chart



spray oil injection

Summarize:

All the handpiece need sterilization and lubrication after operation or using it surpass 30 minutes to prolong handpiece's life.

Straight handpiece (contra handpiece)

- ◆ Dismount straight handpiece(contra handpiece) from motor.
- ◆ Install E nozzle on the lubricant.
- ◆ Insert E nozzle on back of straight handpiece (contra handpiece) to spray 2-3 seconds till through out of head. Stop spray until clean lubrication comes out.
- ◆ Keep Straight handpiece(contra handpiece) stand for a while, and then connect with the motor until there is no lubrication in turbine.

Motor

- ◆ Keep front inserted turbine down, push and spray the lubricate for 4-5 drops or aim at air inlet of motor to spray 2-3 seconds.
- ◆ Connect the motor with turbine to spin 1-2 minutes till finish lubrication.
- ◆ Wipe the redundant lubrication with tissue to finish lubrication.



Motor

Cooling drainage water solution



Clean the water spray with probe

Check connecting pipe water system, and connect quick coupler to avoid blocks in turbine, clean it with probe. If it can not be solved, return to SINOL for maintenance.
Side spray type is a kind of mixture spray in turbine, appropriate cooling air pressure is adjusted ahead.

Trouble solution for chucking system of high speed handpiece

Chucking system's trouble is caused by block in chucking head and pay attention to following can avoid chucking head broken.

Bur selection

- ◆ Make sure revolution provide by the manufacture when select bur.
- ◆ Damage bur will drop off from head which shorten the handpiece life.
- ◆ Mini head connected with short handle bur should be suggested because long handle bur will drop off easily.

Picture for pulling bur

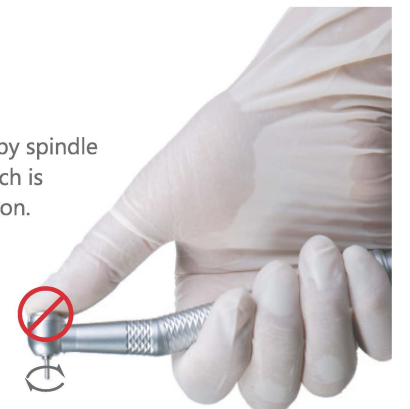


Bur installation

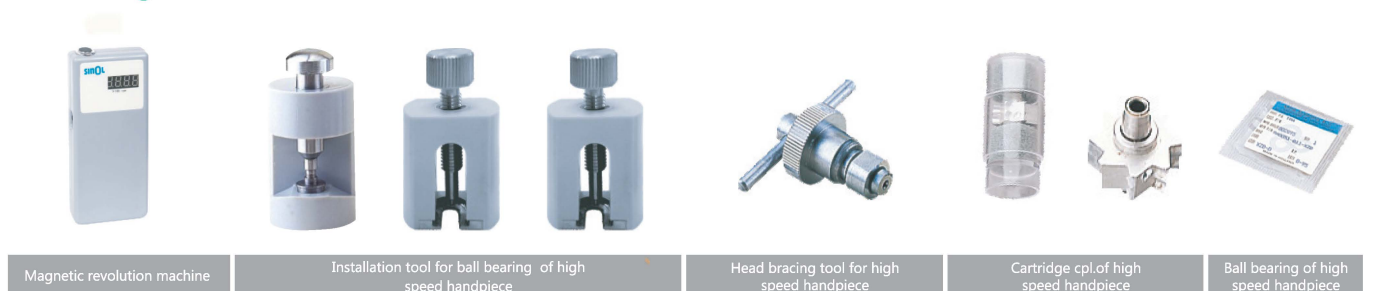
- ◆ Install bur after cleaning blocks avoiding flexibility of chucking system.
- ◆ Insert bur firmly till it can not be pull.

Notes

- ◆ The handpiece broke caused by spindle contact with push button, which is difficult in open the push button. So, press the push button will result in damage of button inside and what worse is that you will burn when replace bur in hanadpiece working.



Maintaining tools



Magnetic revolution machine

Installation tool for ball bearing of high speed handpiece

Head bracing tool for high speed handpiece

Cartridge cpl.of high speed handpiece

Ball bearing of high speed handpiece

special design of cartridge and air duct more stable, more quiet, more powerful



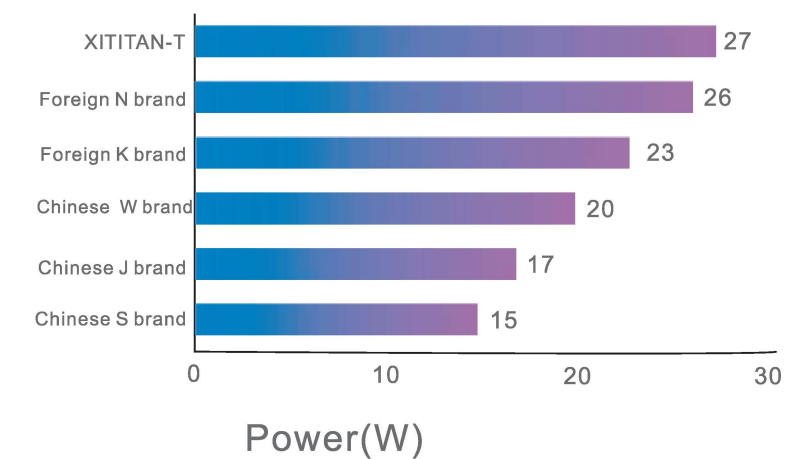
4 WAY SPRAY
HANDPIECE
X TITAN
SURTORO

Cutting force increased by 76.9%.

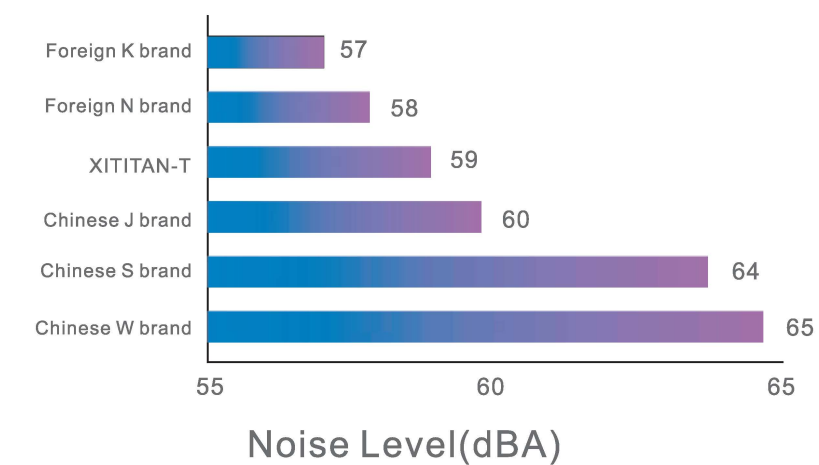
High-speed air turbine handpieces

Model: CX207-B

The super torque is bigger than most other brand



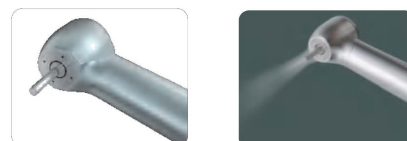
Mute, compare favorably with international high level products



Compared with previous models
improvement in the efficiency 76.9%



- The cartidge according to Germany dynamic balancer to keep balance, lower noise
- Optimized torsion design, ensure provide stronger torque in long time



4 way spray, Good cooling system

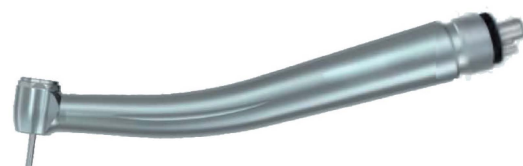


Technical:

The type of cooling: 4 way spray
 Chuck type: push button
 Noise: ≤60dB
 Air pressure at the back end of HP: 0.25-0.28 MPA(4hole)
 0.20-0.22MPA(2hole)
 Bur applicable: Ø1.59-Ø1.6mmx21-23mm
 Rotation speed: ≥370,000rpm
 The size of head: Ø12.5X14.8 (torque head)
 Ø11.5X14 (standard head)



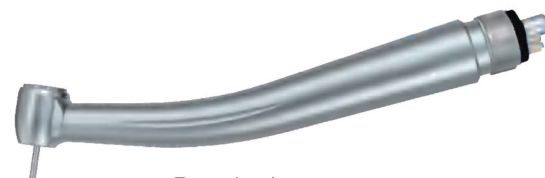
Order code: 210-B3-SP



Standard head Order code: H33-SP4
H33-SP2



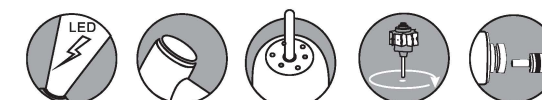
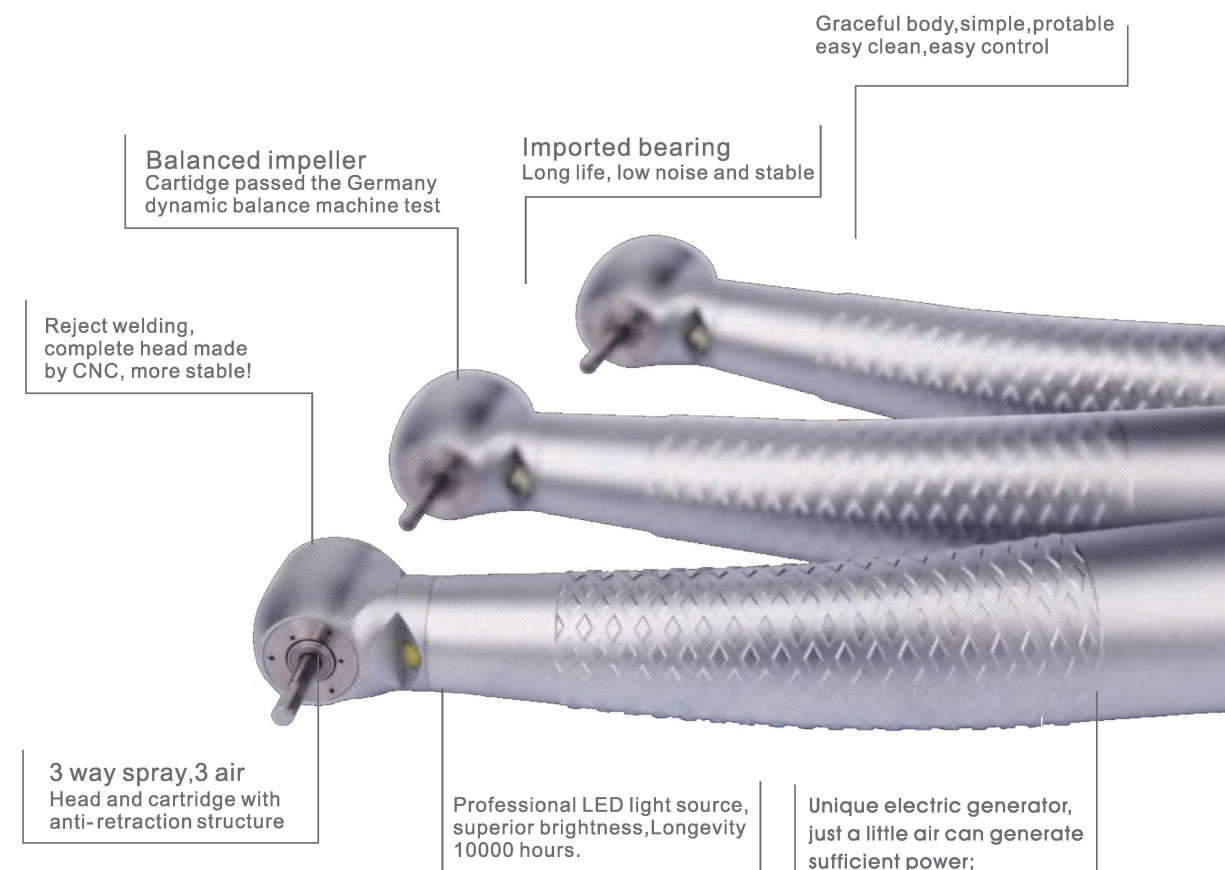
Order code: 210-B3-TP



Torque head Order code: H33-TP4
H33-TP2

Model: CX207-F

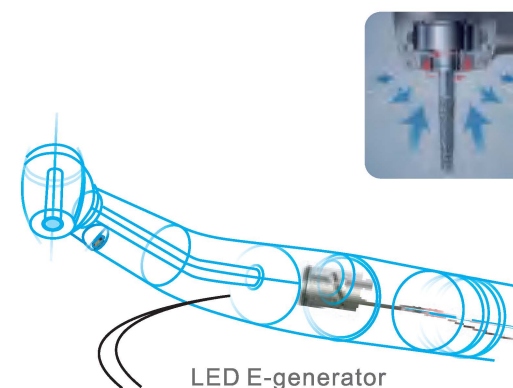
New upgrade, new LED bulb, new integrated head
 Self-luminous



This product has been applied layout-design patent. counterfeit must be investigated.
 NO.ZL201220717131.8 ZL201210563855.6

Technical:

High speed handpiece: 3 way spray 3 air
 Chuck type: push button
 Bulb: LED light
 Noise: ≤70dB
 Air pressure at the back end of HP: 0.25-0.28 MPA(4hole)
 0.20-0.22MPA(2hole)
 Bur applicable: Ø1.59-Ø1.6mmx21-23mm
 Rotation speed: ≥300,000rpm





Order code: **210-F+-SP**



Standard head

Order code: **H15-SP4** ☺
H15-SP2 ☺



Order code: **210-F+-TP**



Torque head

Order code: **H15-TP4** ☺
H15-TP2 ☺



Order code: **210-F-MP**



Miniature head Quick coupling

Handpiece order code: **H05-MPQ**
Complete order code: **H05-MPQ4** ☺
H05-MPQ2 ☺



Order code: **210-F+-SP**



Standard head Quick coupling

Handpiece order code: **H15-SPQ**
Complete order code: **H15-SPQ4** ☺
H15-SPQ2 ☺



Order code: **210-F+-TP**



Torque head Quick coupling

Handpiece order code: **H15-TPQ**
Complete order code: **H15-TPQ4** ☺
H15-TPQ2 ☺

Model: CX207-G

New upgrade, new integrated head

Fiber optic



Technical:

High speed handpiece:	3 way spray 3 air
Chuck type:	push button
Bulb:	LED light
Noise	≤70dB
Air pressure :	0.25-0.28 MPA(6hole)
Bur applicable:	Ø1.59-Ø1.6mmx21-23mm
Rotation speed:	≥ 300,000rpm
Bulb power:	1w
Work voltage:	2.9v-3.2v
Work current:	160mA.



(Fit into NSK®
Machlite/Phatelus®)

Standard head Handpiece Order code: **H16-NSPQ**
Complete order code: **H16-NSPQ6**

Torque head Handpiece Order code: **H16-NTPQ**
Complete order code: **H16-NTPQ6**



(Fit into W&H®
Roto Quick®)

Standard head Handpiece Order code: **H16-WSPQ**
Complete order code: **H16-WSPQ6**

Torque head Handpiece Order code: **H16-WTPQ**
Complete order code: **H16-WTPQ6**



(Fit into Sirona®R/F)

Standard head Handpiece Order code: **H16-SSPQ**
Complete order code: **H16-SSPQ6**

Torque head Handpiece Order code: **H16-STPQ**
Complete order code: **H16-STPQ6**



(Fit into KaVo®
MULTIfelx®LUX)

Standard head Handpiece Order code: **H16-KSPQ**
Complete order code: **H16-KSPQ6**

Torque head Handpiece Order code: **H16-KTPQ**
Complete order code: **H16-KTPQ6**



Order code: **210-G+-TP**
For torque head



Order code: **210-G+-SP**
For standard head



Order code: **229-GN**
(Fit into NSK®
Machlite/Phatelus®)



Order code: **229-GW**
(Fit into W&H®
Roto Quick®)



Order code: **229-GS**
(Fit into Sirona®R/F)



360° water
adjustor



Order code: **229-GK**
(Fit into KaVo®
MULTIfelx®LUX)



360° water
adjustor

Model: CX207-B

New upgrade, new integrated head

1 water spray, 4 air spray
Head and cartridge with
anti-dust structure

Reject welding,
complete head made by CNC,
more stable!

Graceful body, simple,
easy clean, easy control

Wear-resisting, efficient operation



Balanced impeller
Cartridge passed the Germany
dynamic balance machine test

Good cooling system,
soft push button

Imported bearing
Long life, low noise and stable

Technical:

High speed handpiece:	1 way spray, 4 air spray
Chuck type:	push button
Noise	≤68dB
Air pressure at the back end of HP:	0.25-0.28 MPA(4hole) 0.20-0.22 MPA(2hole)
Bur applicable:	Ø1.59-Ø1.6mm x 21-23mm
Rotation speed:	≥300,000rpm

Model: CX207-C

New upgrade, new integrated head



Technical:

High speed handpiece: 1 way spray 3 air spray
Chuck type: push button
Noise: ≤68dB
Air pressure at the back end of HP: 0.25-0.28 MPA (4 hole)
0.20-0.22 MPA (2 hole)
Bur applicable: Ø1.59-Ø1.6mm x 21-23mm
Rotation speed: ≥300,000rpm
color: red ■ yellow ■ purple ■ blue ■ black ■



Standard head
Red
Order code: H14-1SP4
H14-1SP2



Standard head
Yellow
Order code: H14-2SP4
H14-2SP2



Standard head
Purple
Order code: H14-3SP4
H14-3SP2



Standard head
Blue
Order code: H14-4SP4
H14-4SP2



Standard head
Black
Order code: H14-5SP4
H14-5SP2



Torque head
Red
Order code: H14-1TP4
H14-1TP2



Torque head
Yellow
Order code: H14-2TP4
H14-2TP2



Torque head
Purple
Order code: H14-3TP4
H14-3TP2



Torque head
Blue
Order code: H14-4TP4
H14-4TP2



Torque head
Black
Order code: H14-5TP4
H14-5TP2



Order code: 210-C+-SP
For standard head



Order code: 210-C+-TP
For torque head

Model: CX207-A

New upgrade, new integrated head



Single water spray
more three air spray
Head and cartridge with
anti-dust structure

Cartridge passed the Germany
dynamic balance machine test

The special clean head designed
to avoid the entry of oral fluids and
other impurity into handpiece head.

Graceful body, simple,
easy clean, easy control



Order code: 210-A-SP



Standard head

Order code: H02-SP4
H02-SP2



Order code: 210-A-TP



Torque head

Order code: H02-TP4
H02-TP2

Model: CX207

Power increased by more than 30%, cutting faster!



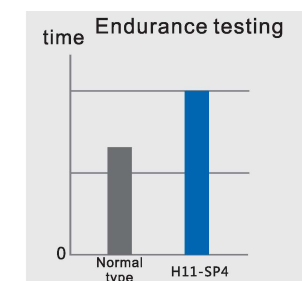
Bearing is imported
from Japan

Push button design
Cartridge is easier to replace

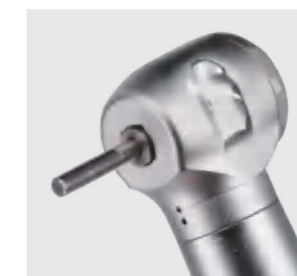
The neck is small and the treatment
area is maximized.

Technical:

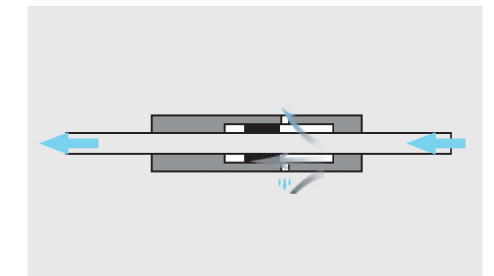
High speed handpiece: 1 way spray
Chuck type: push button
Noise: ≤65dB
Air pressure at the back end of HP: 0.22-0.24MPa(4hole)
Effective range of overload pneumatic protection: 0.3MPa~0.5MPa
Rotation speed: ≥350,000rpm



Bearing is imported from Japan



Power increased by more than 30%,
cutting faster



Overload protection can prevent the working
pressure being too high and prolong the
service life of the handpiece



Order code: 210-1-SP



Standard head Order code: H11-SP4

Dental low speed handpiece



External Order code: **235-F SET-4** ③
235-F SET-2 ④



inner channel Order code: **235-B SET-4** ③
235-B SET-2 ④



Generator in contra angle



inner channel LED Order code: **235-E SET-4** ③
235-E SET-2 ④

Technical:

Low speed handpiece: 1 way spray
Chuck type: push button
Noise: ≤70dB
Air pressure: 0.30MPA
Bur applicable: Ø2.35_{-0.016}mm(ISO1797-1)
Rotation speed: about20,000rpm

Model: C7-5



1:5 Speed increased Contra Angle
New upgrade, Better structure Better performance

Order code: C7-5
Optic fiber

1:5 speed increase

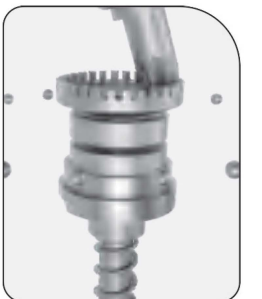
Technical:

Chuck type: push button
Spray: Inner channel
Bur applicable: Ø1.6mm
Rotation speed: about200,000rpm

V shape water spray structure
More stable and better cooling

Add sanitary hole
Reduce the risk of dirt entering

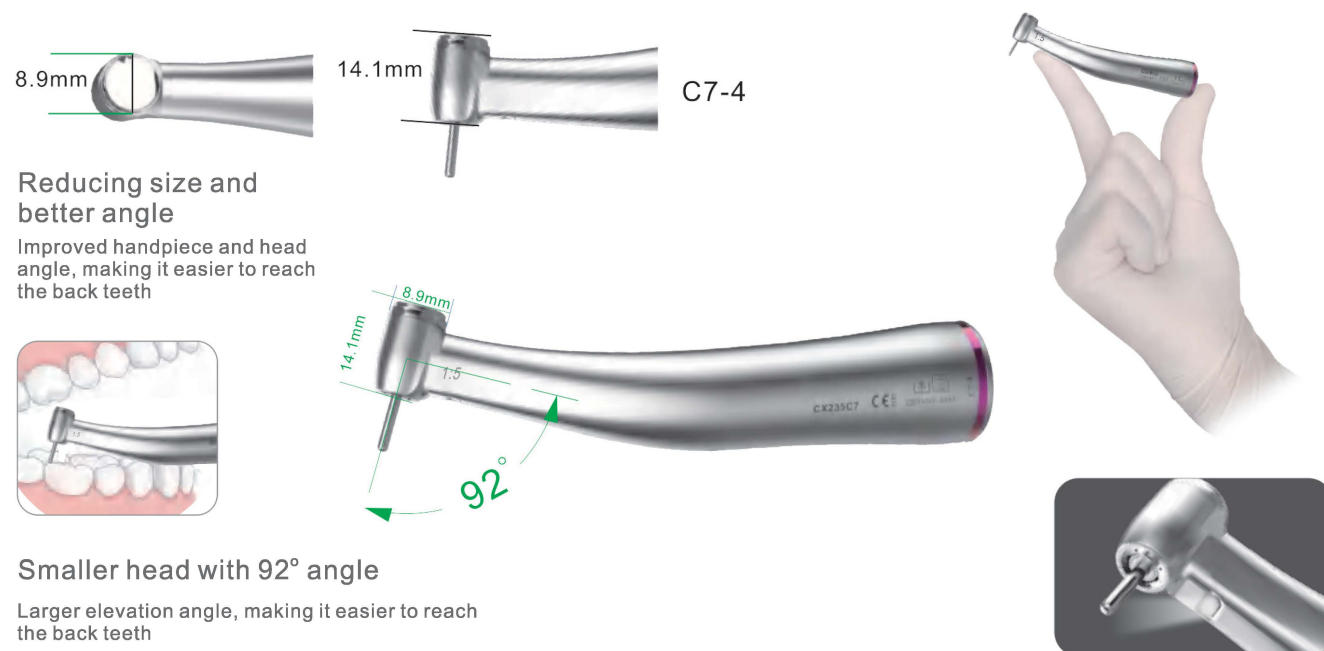
Better waterproof structure
To better prevent water from entering the head



More concentrated light
Increase the illumination
by 100%

Improved shaft structure
Service life increased by
more than 90%

Model: C7-4



Model:235-F SET 4



Technical:

Chuck type:	push button
Noise	≤70dB
Air pressure:	0.30MPa
Bur applicable:	Ø2.35 _{-0.016} mm (ISO1797-1)
Rotation speed:	about 20,000rpm

Model:235-B SET 4



Technical:

Low speed handpiece:	1 way spray
Chuck type:	push button
Noise	≤70dB
Air pressure:	0.30MPa
Bur applicable:	Ø2.35 _{-0.016} mm (ISO1797-1)
Rotation speed:	about 20,000rpm

Model:Optical Fiber CX235C1



Order code: CX235C1

New upgrade, new integrated head

1:1 Direct drive

Low speed handpiece:	1:1 direct drive
Chuck type:	push button
Spray:	Inner channel
Bur applicable:	Ø2.35 _{-0.016} mm
Rotation speed:	MAX40,000rpm

Model: Optical Fiber CX235C1 C1-1



Order code: CX235C1 C1-1

New upgrade, new integrated head

1:1 Direct drive

Low speed handpiece:	1:1 direct drive
Chuck type:	push button
Spray:	Inner channel
Bur applicable:	Ø2.35 _{-0.016} mm
Rotation speed:	MAX40,000rpm

Model: CX235-2B S-2B



Order code: S-2B

1:1 Direct drive

Low speed handpiece:	1:1 direct drive
Spray:	Inner channel or External
Bur applicable:	For surgical Ø2.35 _{-0.016} mm
Rotation speed:	MAX40,000rpm