

TORQTECH



Lineups

	Part Number	Gear Ratio	Max rotation speed	Useable Burs	Attachable Motors
	CA-5IF-O	1:5	42,000rpm	FG Bur	ISO type
	CA-DC-O CA-DC	1:1	42,000rpm	CA Bur	ISO type
	ST-DH	1:1	42,000rpm	HP Bur	ISO type
	CA-10RC-ENDO	10:1 reduction	20,000rpm	CA Bur	TR-SS-R
	CA-10RC-O CA-10RC	10:1 reduction	42,000rpm	CA Bur	ISO type
	CA-4R-PP	4:1 Reduction	10,000rpm	PMTc Cup Brush	ISO type
	CA-4R-O-PF	4:1 Reduction	20,000rpm	EVA tip Laminar tip	ISO type

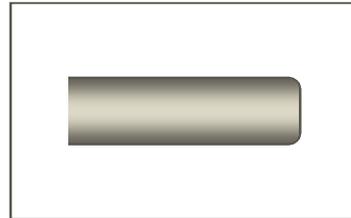
Lineups

	Part Number	MAX Rotation Speed	Light	Water Filter	Surgical Methods
	CA-5IF-O	200,000rpm	○	○	Removal/ Drilling / Finishing
	CA-DC-O CA-DC	40,000rpm	○ —	○ —	Drilling / Polishing
	ST-DH	40,000rpm	—	—	Drilling / Polishing
	CA-10RC-ENDO	2,000rpm	—	—	Endo Treatment
	CA-10RC-O CA-10RC	4,000rpm	○ —	○ —	Polishing / Endo Treatment
	CA-4R-PP	2,500rpm	—	—	PMTc
	CA-4R-O-PF	85Hz (Vibrating Frequency)	○	○	PMTc (Vertical movement)

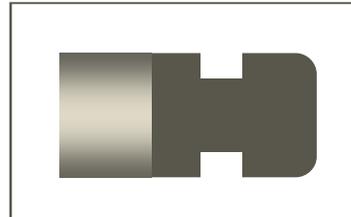
Burs



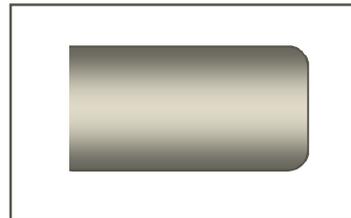
FG Bur (φ1.6mm)
Carbide Bur
Diamond Bur



CA Bur (φ2.35mm)
Carbon Random Point
Polisher
Peaso Leamer
Files

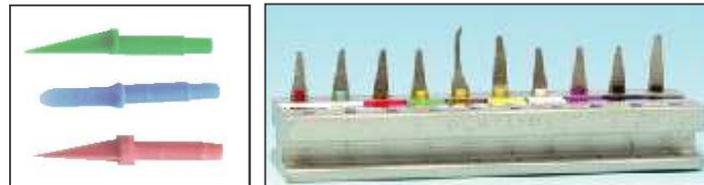


HP Bur (φ2.35mm)
Carbon Random Point
Polisher
Steal Bur
Wheel Disk



PMTc Cup Brush

EVA • Laminar tip ※Dentatus pat



Micromotors without lights



CA-5IF-O



CA-DC-O

CA-DC



ST-DH



CA-10RC-ENDO



CA-10RC-O

CA-10RC



CA-4R-PP



CA-4R-O-PF



TR-SS / TR-SS-R



TR-91-O (LD)

Handpieces with optical do not match motors without light



TR-91



TRA-200
(20,000rpm)

“Best Basic Characteristics to Match Operations ”

Satisfying Procedures

- Accessibility → Smooth Body, Miniature Head
- Stress less and Smooth Operation → Well Balanced Hand Piece
- Smooth Cutting → Fine Tuned Rotor Axis
- Low Burden on Patient and Doctor → Low Vibration

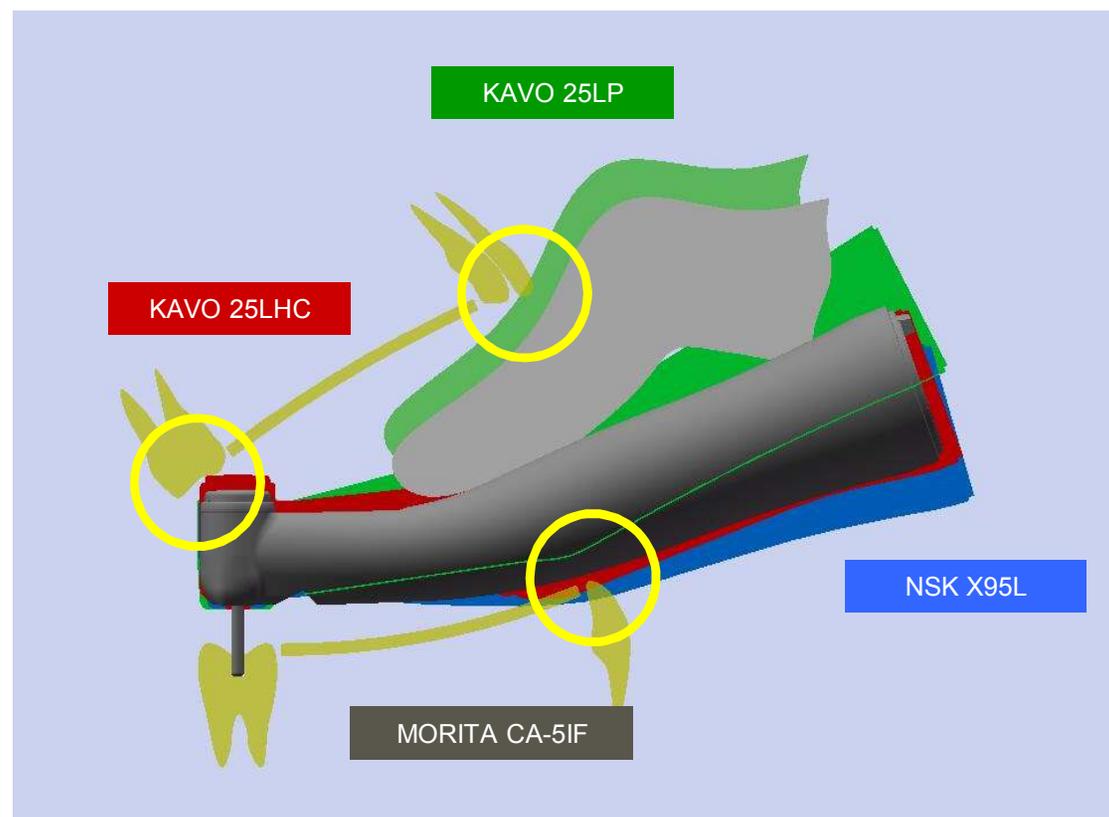
Worlds No.1 Durability and Safety

- Worlds First “Double Internal Gear System” (1:5 Contra Angle)
- High Durability Involute Gear System (excluding straight HP)
- Safe Lock Chuck System
- Paste Intrusion Prevention System (Profy)
- Precise and Durable Vertical Movement System (Vertical HP)

Easy Access (Smooth Body / Mini Head)

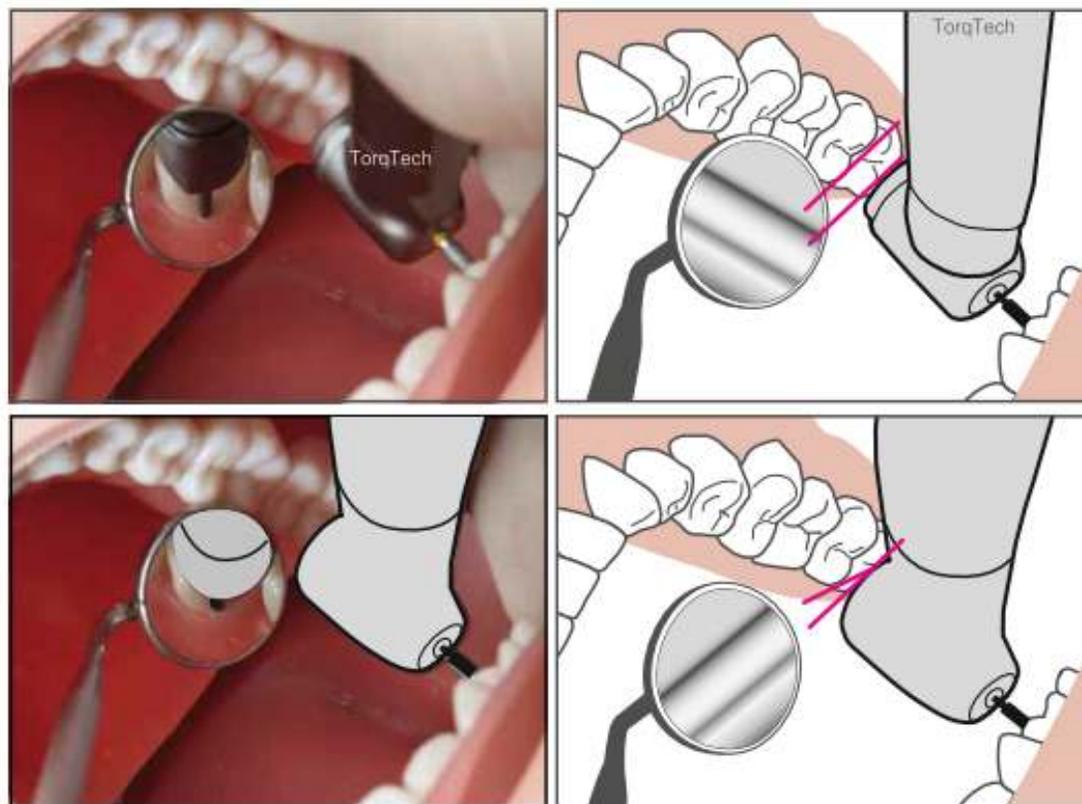
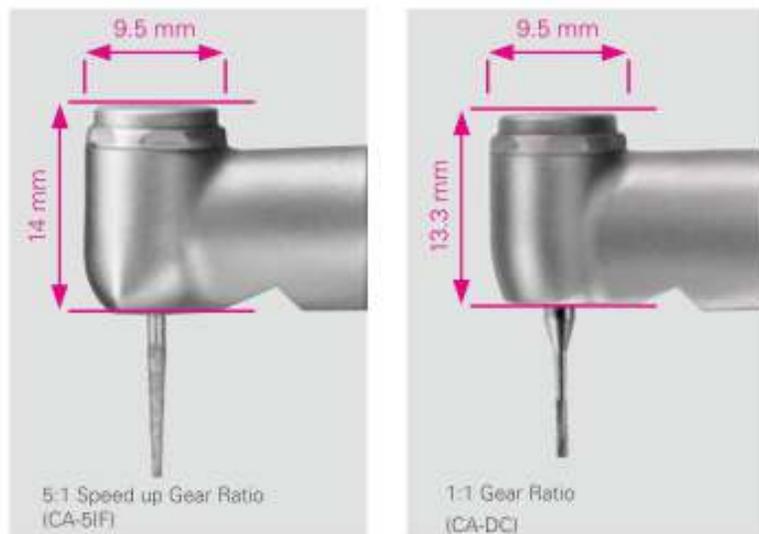
Unique gear system with smooth body and miniature head.

Enables easy access to the molars and reduces stress on the patient and doctor.

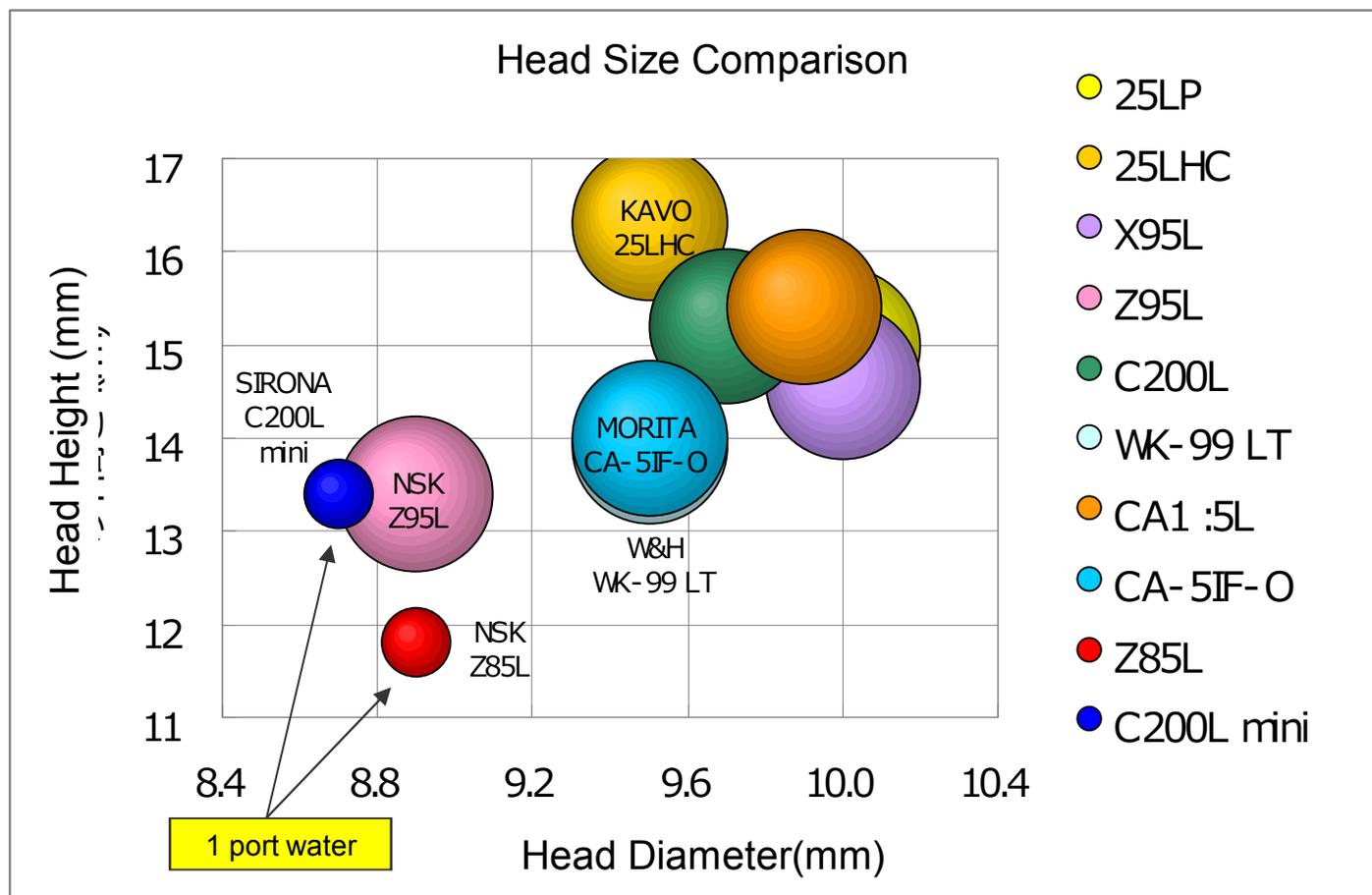


Easy Access (Smooth Body / Mini Head)

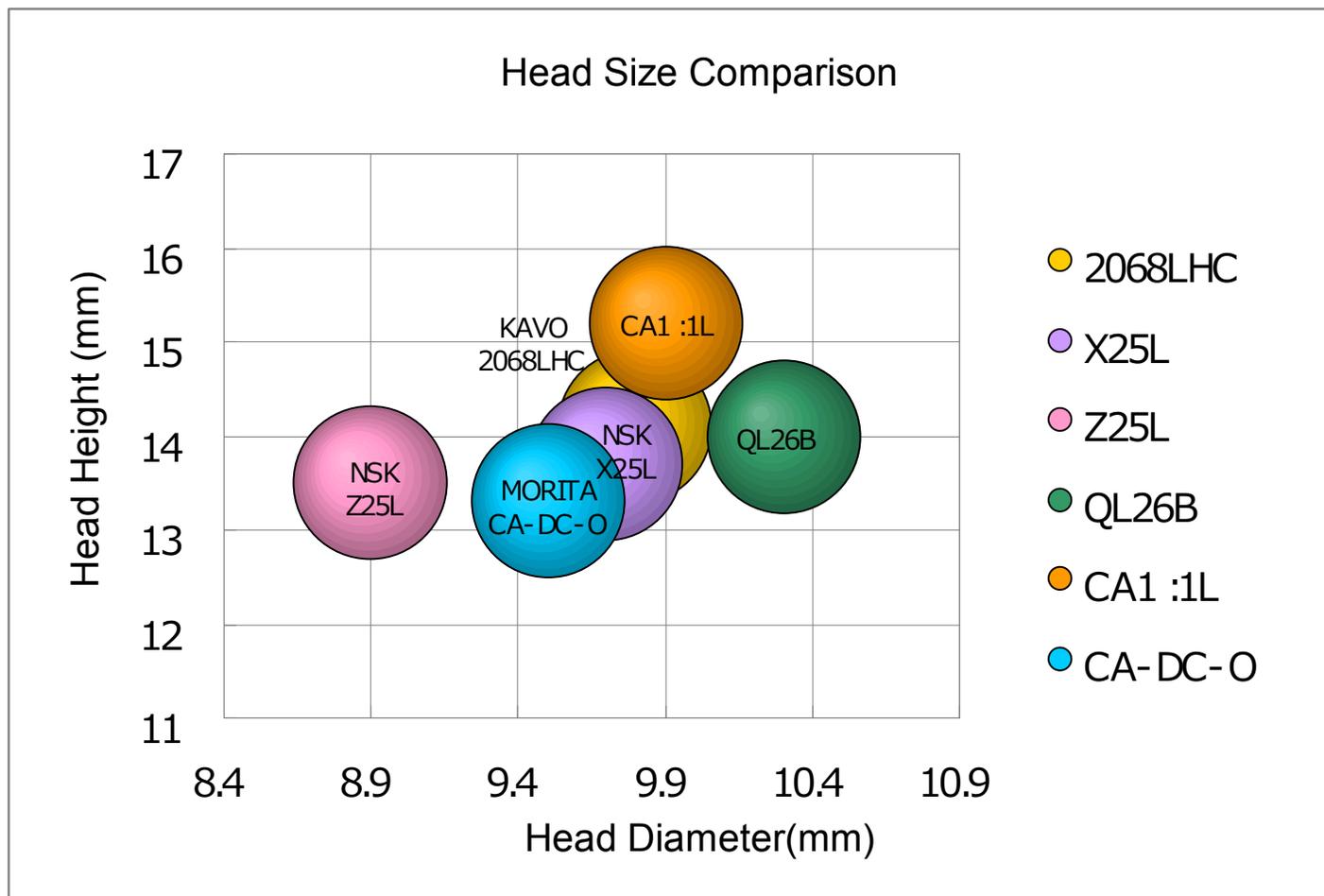
Small head size enables easy access to the molars, wisdom tooth even for patients with smaller jaws.



Head Size Comparison (1 : 5 Contra Angle)



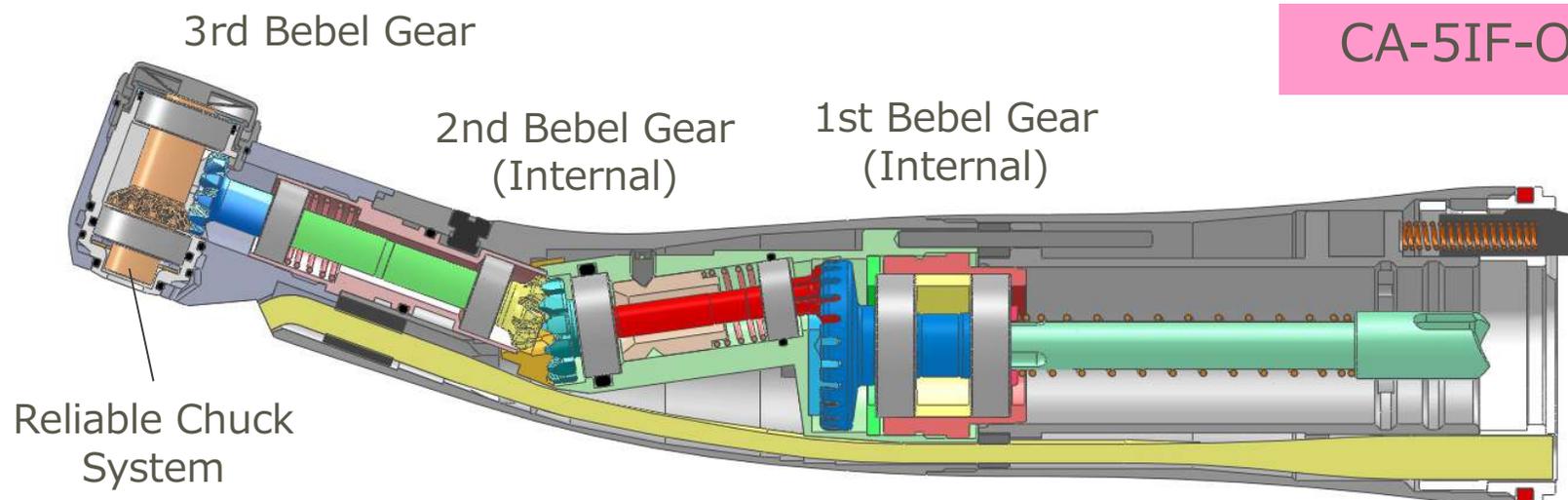
Head Size Comparison (1:1 Contra Angle)



Reliable Gear System

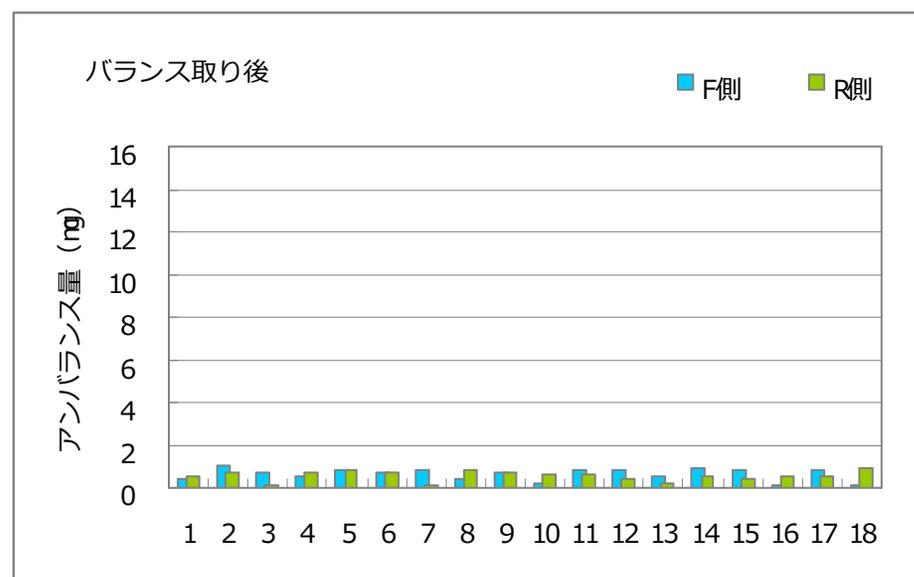
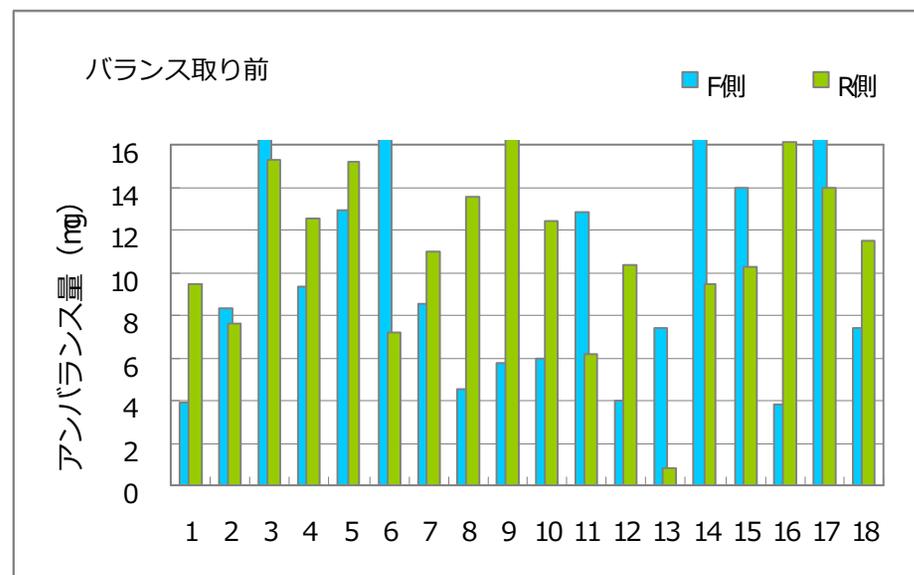
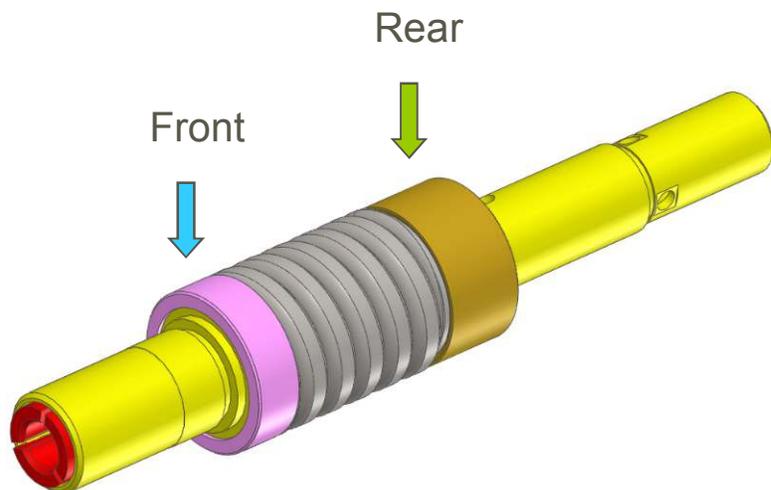
Torquetech uses the involute gear system which requires a precise processing technology. This gear system reduces the sound of the gear, has a superior precision of burr rotation axis and makes the gear robust.

Worlds First “Double Internal Gear System”



Low Stress by Lesser Vibration

Morita Handpieces rotor axis' are all balanced with the Front and Rear weights to maintain a better rotation axis and reduces the heat sound and vibration the gears cause.

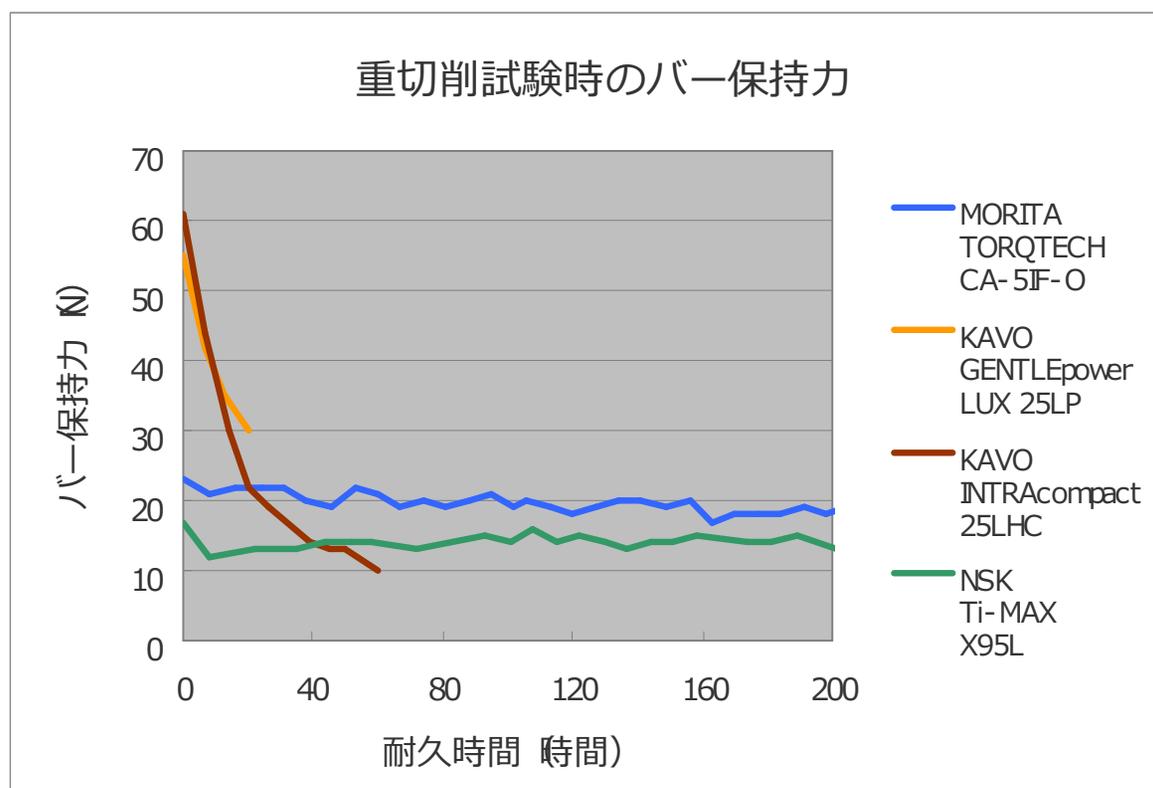
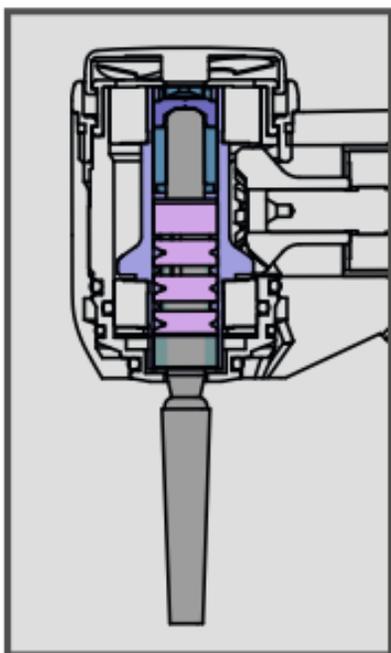


Safe and Reliable Chuck System

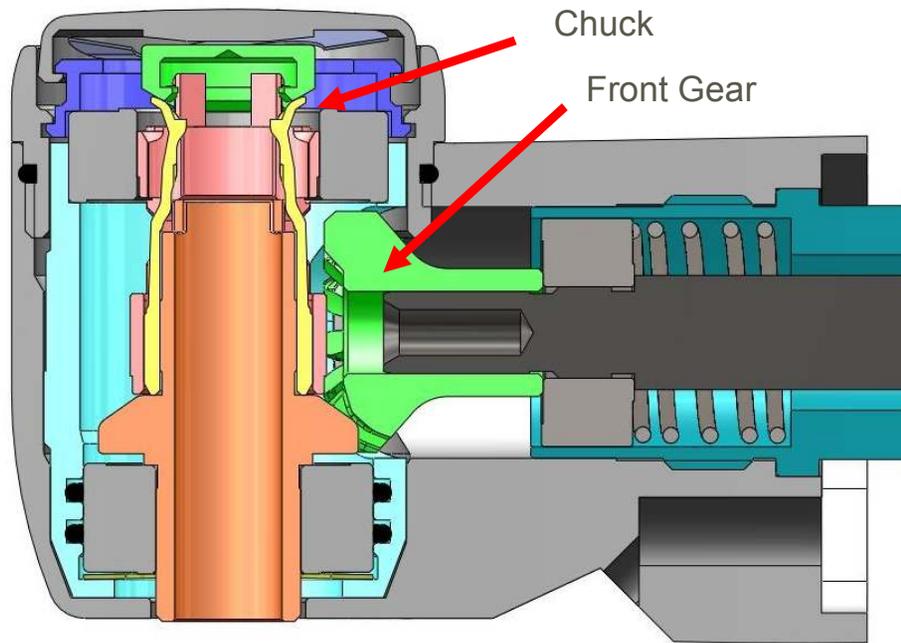
For the red band 1:5 contra angle handpiece we are using the same chuck system for the high-speed handpiece to maintain the grip on the burs. By designing the clip that holds the bur and spring separately even if the clip wears out the grip tightens the hold of the bur.



Chuck Tester

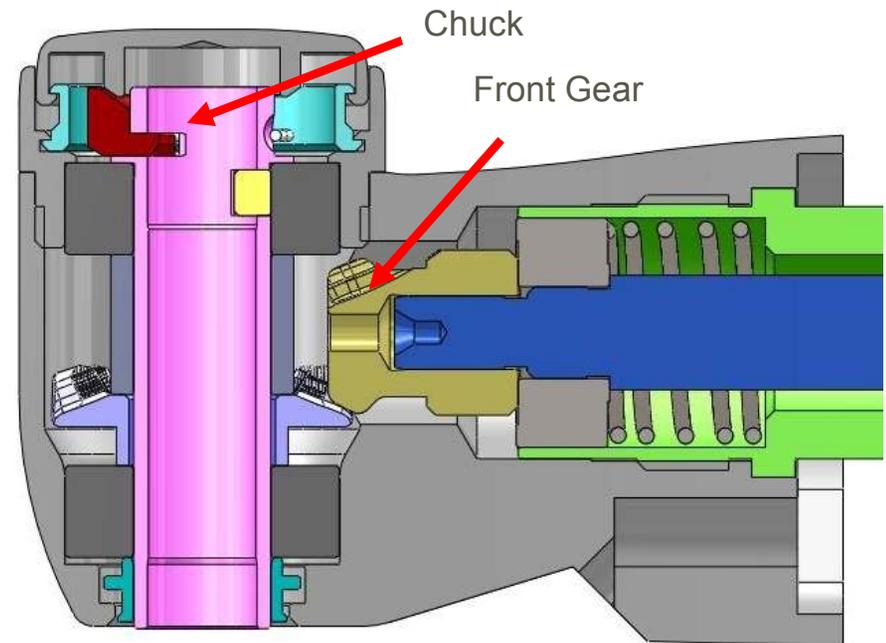


Equal Contra Angled and Reduction Geared Contra Angled
 To achieve the smallest head size in all products, each all have
 different chuck systems.



Equal Geared Contra

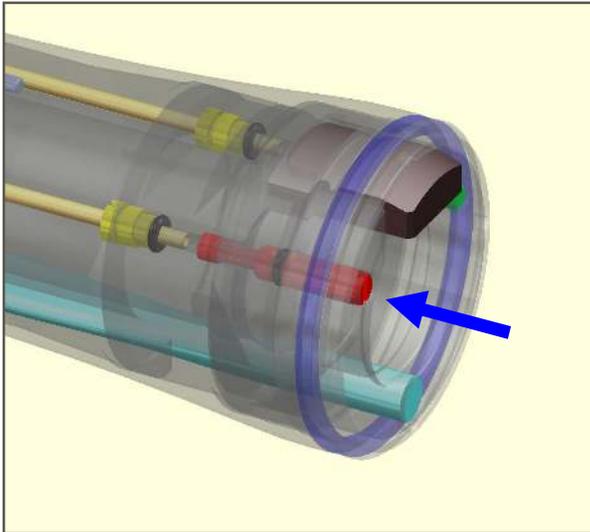
Larger Front Gear = Head becomes taller
 → Enable the chuck to be inside rotor



Reduction Geared Contra

Smaller Front Gear = Extra Space in back side
 → Enable the total head size to be smaller

Water Filter / LS SPRAY



The models with fiber optics has a filter at the end of the hand piece. It is easily opened with a screwdriver and you will be able to clean the clogged pipes easily.

The Torqtech uses a newly developed exclusive oil spray called the LS spray. It more smooth than the other sprays and leaves less oil behind after maintenance.



The AR Spray which is more sticky, if used in the 1:5 Contra Angle will create heat and make the whole hand piece to heat up.

Maintenance



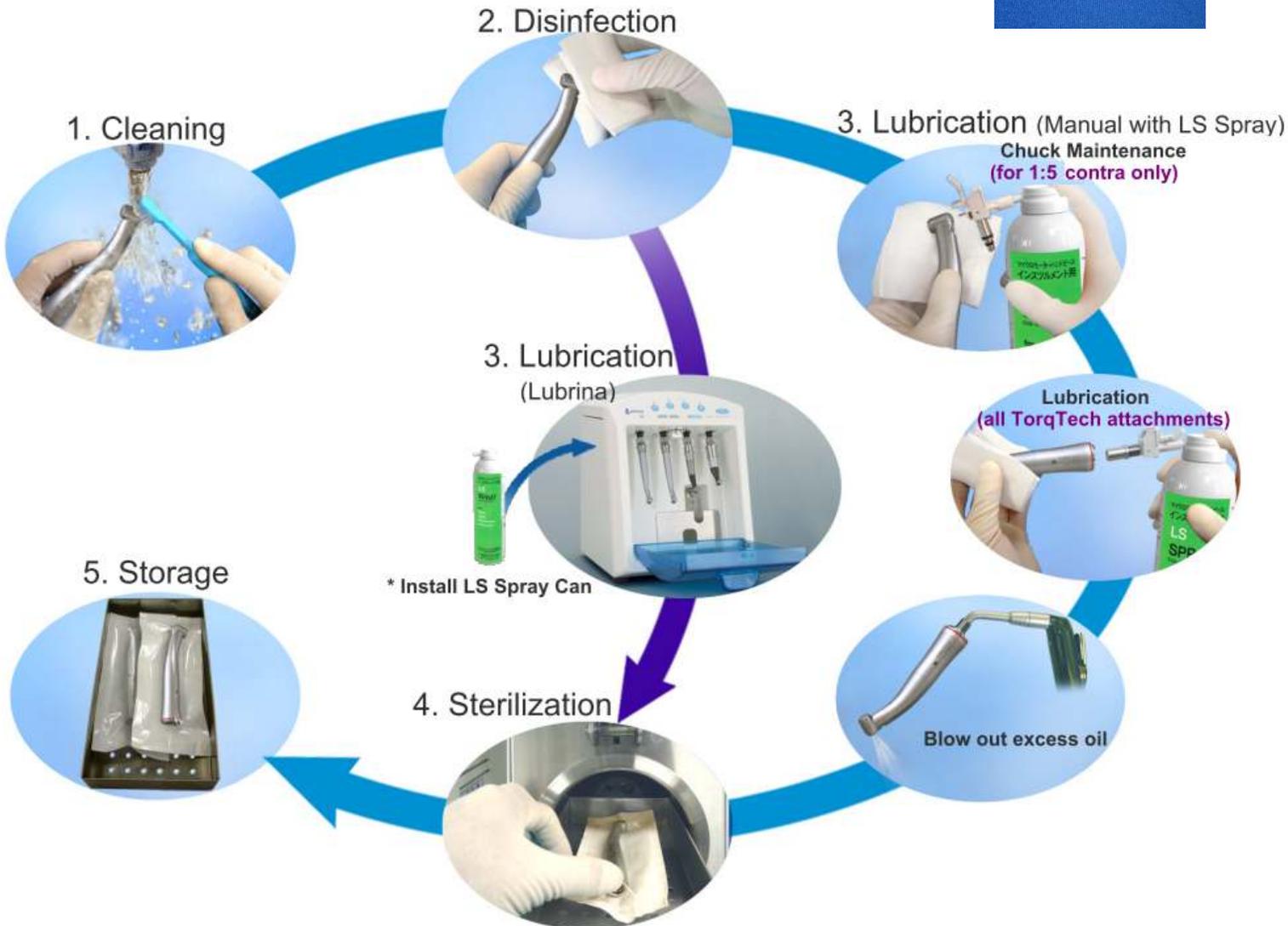
Spray Nozzle
(except CA-5IF-O)



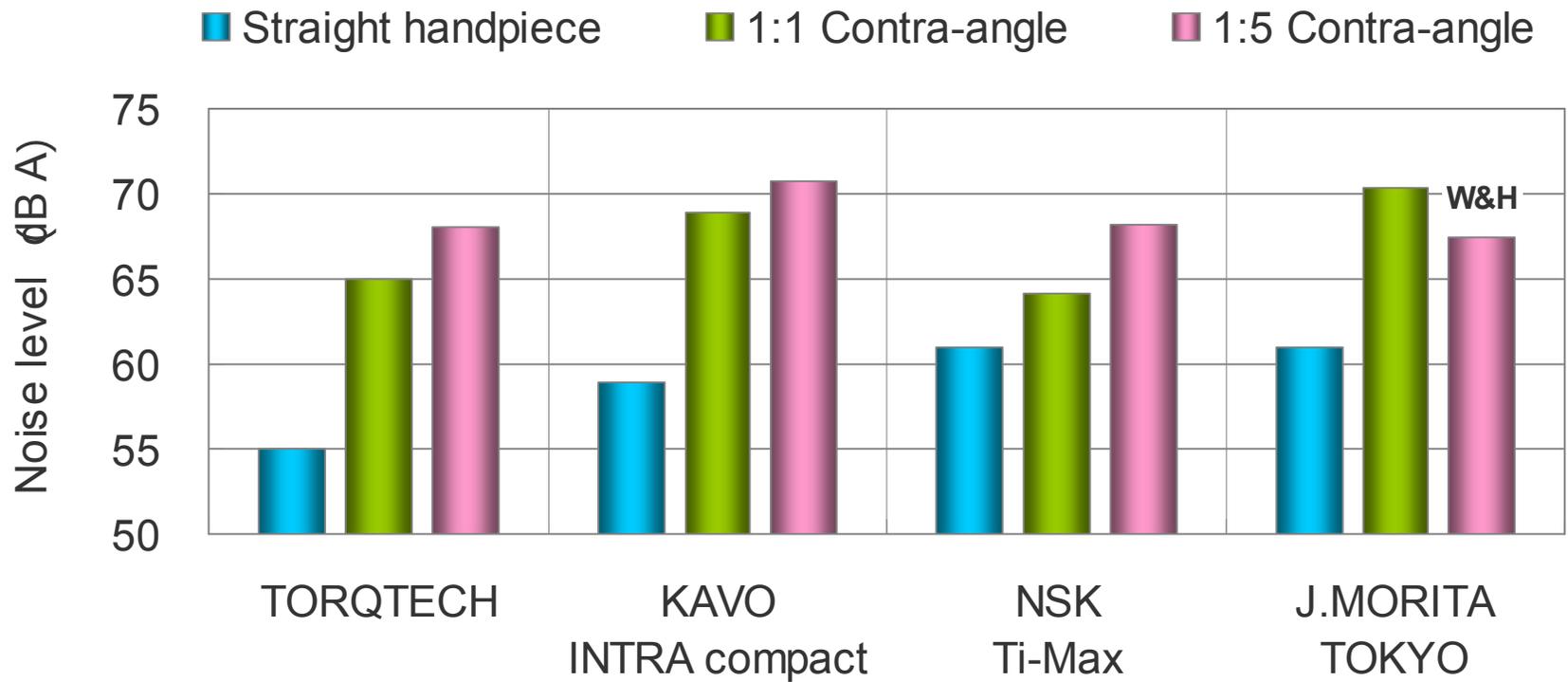
CA-5IF-O
Spray Nozzle



Upper) Chuck
Lower) Hand Piece



Performance (Sound)



Performance (Bur Eccentricity)

