

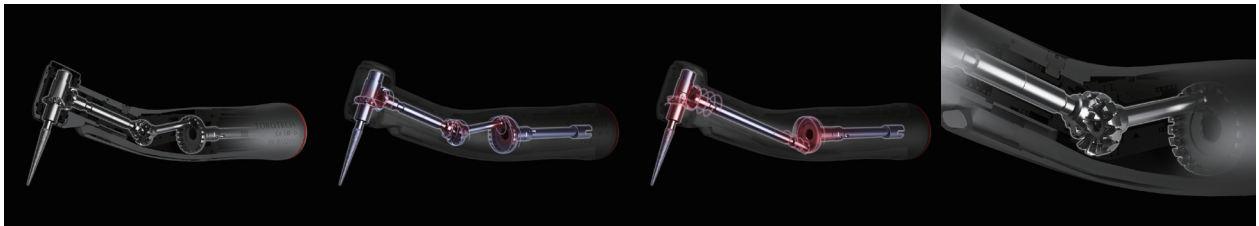
DURABILITY AND LONGEVITY

THE BENEFITS OF A 3 GEAR SYSTEM IN A 1:5 SPEED INCREASING CONTRA ANGLE HANDPIECE.



The Morita TorqTech 1:5 contra angle red band handpiece has a three gear system plus double internal gears and involute gears that all contribute to super durability.

While enhancing both handling and safety, durability is greatly improved by the use of the three-gear system plus double internal gears and involute gears. This enables the handpiece to stand up to repeated autoclaving astonishing well.



3 Gears: larger teeth carrying the load

2 Gears: Load is concentrated on smaller teeth

Super Durable 3 Gear System

With only 2 gears the teeth must be smaller. The three gear system uses bigger gears by employing internal and involute gears that gradually increase the speed. This makes the whole system more durable and less vulnerable to wear. (CA51FO)

Internal Gear System for Maximum Activity Space

In order to use larger gears within the limited space inside the handpiece, two internal gears are used. These have the teeth on the inside rather than the outside as with conventional gears.

Involute Gears

These gears contribute greatly to better durability because they move more smoothly against each other, reduce friction and lessen wear.

Handling Comparison of TorqTech and Morita's CAI. Dotted Lines and shaded areas show difference in shape.

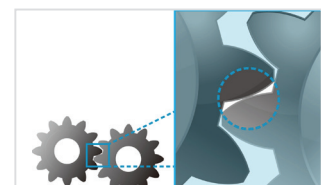
TorqTech vs a Standard Size Head

The smaller head is more comfortable for patients and offers better access in the posterior region. It is especially helpful when the patient has limited opening.

A standard sized head is generally taller and strikes opposing teeth in the treatment area. The sensation of this can be stressful and uncomfortable to patients.

Safety

Morita TorqTech contra angle handpieces hold burs with great security. Morita has invented a unique chuck design that uses three prongs and a three-dimensional spring mechanism so that the chuck is held both vertically and horizontally. The chuck is highly durable and its gripping strength is hardly at all affected by wear and metal fatigue.



Involute Gear : Gears that use an involute tooth shape

