



## NJ Toothbrush

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*A toothbrush uniquely developed by oral healthcare experts in the top dental school of the world*

### Introduction

NJ Toothbrush is the only toothbrush in the world targeting all dental surfaces including those often unreachable niches.

A toothbrush is a must for everyone's day-to-day oral healthcare and quality of life. It is indeed the most common and essential oral hygiene aid to remove dental plaque biofilms for oral health, general wellbeing and healthy aging. It is evident that uncontrolled plaque biofilms critically account for the onset and development of the most common oral diseases - decay/caries and gum/periodontal diseases.

The NJ Toothbrush is uniquely designed to overly target all dental surfaces, in particular the interdental, retromolar and sub-gumline niches, so called the 'dead-corners' where the currently used toothbrushes may be difficult to clean up.

The NJ Toothbrush is developed using a precise computer-mapping of six types of purpose-built bristle-bundles that target all dental-gingival surfaces and niches. It can therefore maximize the effective control of plaque biofilms and resultant oral/periodontal inflammation along with regular professional oral healthcare. Moreover, this toothbrush is very user-friendly because of a purpose-built "rail track" approach to facilitate the correct action of tooth brushing, so as to promote optimal oral health.

A proper tooth brushing technique is the key for effective removal of plaque biofilms. The NJ Toothbrush can be easily adopted by users with respect to guiding them to brush correctly, through the featured "rail track" action that couples over both upper and lower dental arches. As it moves along the dental arches, the brush head rotates freely and automatically from one to the other side. Moreover, the brush head automatically fits both lingual/palatal and buccal/labial surfaces of the upper and lower canines and incisors. It can easily reach all surfaces of front and posterior teeth at the same time.

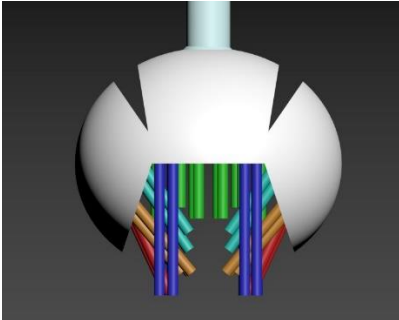
The NJ Toothbrush will make daily tooth brushing an Easy, Effective and Enjoyable ('3E') action to refresh your mouth and mind for happy life!

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### 12 Key Features of NJ Toothbrush

#### 1. Computer Mapping

Each group of bristles has been positioned, angled with specific lengths and diameters to target at specific dental anatomical features by computer mapping.



#### 2. Specific Bristles for specific functions

Six types of bristle targeting full coverage of all dental - gingival surfaces and niches.

#### 3. Soft Bristles for sub-gumlines

Soft bristles are aiming at soft supporting tissue and relatively hard bristles are targeting at hard dental morphology. Specific sub-gumline bristles group enabling to clean the sub-gumline plaque.

#### 4. Micro Circulation Motion with full circle coverage

Ultrasonic vibration creates micro circular vibratory motion on tooth surfaces by each bristle, and thousands of micro-actions would cover full surface areas of teeth and sub-gumlines.

#### 5. Millions on Target Hits

Each second would create few hundreds vibratory hits, thousand bristles should create million hits. Since the bristles are designed to hit on various target and hence "millions on target hits".

#### 6. Auto Fitting for tooth morphologies

Collapsible bilateral V shaped wings are designed to open and close to custom accommodation against different width of various segments of dentition.

#### 7. Tackling Front Teeth Niches

Specific bristle bundles are targeting at hard to reach upper and lower front teeth and retro-molar regions.

#### 8. Hand Motion Freedom

Ball and Socket Joint design allows hand motion freedom brushing from one end to the other end continuously.

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### 9. Dental Arch Tracking

Tracking by custom designed top and bilateral wings running along the dental arch.



### 10. Auto-coupling

The ball and socket joint is designed for auto coupling against any position anytime of upper or lower arch.

### 11. Balanced Force to minimise abrasion

Since the NJ Toothbrush is designed to run on the dental arch and the bristles are designed to track above the arch, balanced force are distributed evenly against arch minimizing abrasion causing.

### 12. Tackling Retromolars

Specific bristle bundles are targeting at hard to reach upper and lower retro molar regions.