

# TWO NO.1-IN-CLASS MOTOR HANDPIECES

## Best-in-class power\*!

### Torque

UM50T sports a best-in-class torque of 8.7Ncm and a power of 250W. It is adaptable to every kind of polishing and grinding work such as trimming of gypsum and polishing of resin required by dental technicians. It is recommended especially for continuous use at high load.

High-power  
250 W!

| Motor handpiece   |                                 |
|-------------------|---------------------------------|
| UM50T torque type |                                 |
| Speed             | :1,000~50,000 min <sup>-1</sup> |
| Max. Power        | :250 W                          |
| Max. Torque       | :8.7 N cm                       |
| Dimensions        | :L164 x Ø29 mm                  |
| Weight            | :260 g (excluding the cord)     |
| Cord Length       | :1.2 m                          |

(Full-size)

## Most-compact-in-class size\*!

### Compact

UM50C is most-compact-in-class and lightweight as 148mm in length and 200g in weight, delivering a stable power of 140W. Having a thin grip, which is easy for women to operate, it is optimal for general dental work.

Compact  
148 mm / 200g!

| Motor handpiece    |                                 |
|--------------------|---------------------------------|
| UM50C compact type |                                 |
| Speed              | :1,000~50,000 min <sup>-1</sup> |
| Max. Power         | :140 W                          |
| Max. Torque        | :6.0 N cm                       |
| Dimensions         | :L148 x Ø 27mm                  |
| Weight             | :200 g (excluding the cord)     |
| Cord Length        | :1.2 m                          |

(Full-size)

## UM50T & UM50C common features

### Speed : 1,000~50,000 min<sup>-1</sup>

The rotation speed can be changed steplessly (variably) within the range between 1,000 and 50,000 min<sup>-1</sup>. Smooth and powerful torque is delivered in low to high speed areas. Especially high speed rotations of 50,000 min<sup>-1</sup> at maximum allows precision micromachining.

### Ergonomical Design

NSK's Ultimate handpiece is ergonomically designed to reduce fatigue in the operator's hand-even when the handpiece is in use for a long period.

### Special Dust-Proof Mechanism

The Ultimate handpiece has a patented built-in dust-protection system to prevent the infiltration of cutting chips into the bearing of the unit, thus ensuring high durability.

### Bur runout : Less than 0.02 mm

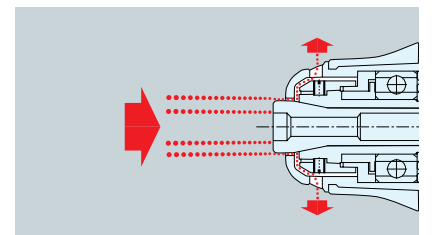
The NSK's ultra-precision technology ensures the bur concentricity of 0.02mm or less, which affords high accurate dental processing.

### Low noise, Low vibration

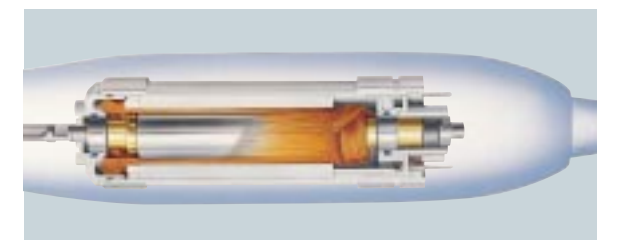
The hermetically enclosed brushless motor has reduced the noise level by 20% compared to conventional models, resulting in quieter, more comfortable work environment.

### Excellent Durability

High performance brushless motor eliminates the need to change brushes. NSK's internal load test has proven continuous use for more than 5,000 hours.



Special dust-proof mechanism (PAT.)



High performance brushless motor

### Handpiece Stand

We have designed and created such a shape that the motor handpiece can easily be kept and taken. It is tough, having a soft feel. It is provided with holders to hold spanners and a spare chuck at the bottom. They are a convenience because spanners are handy whenever necessary.

\* The handpiece stand is attached to the control unit.



Bottom