Surgery Micro-Motor System TCM 3000

The intelligent solution for surgery application

The TCM 3000 is a microprocessor controlled drive unit used in most comment surgery fields e.g. Skin grafting, ENT, Plastic- Neuro- Hand- and Oral / Maxillo facial surgery etc.
Advantages

✓ Economical due to very good cost/performance ratio

✓ Automatic Torque Limiter (AL/AS)

✓ High performance and torque

✓ The continuous torque is constantly monitored by the control unit

✓ Constantly controlled torque independently from different speed
Description

- Control unit
- Operation panel
- Electronic motor
- Handpiece rest
- Display
- ON/OFF or VARIO foot pedal
- Handpiece or contra angle
- Handpiece rest
**Display**
Shows current rotation speed or torque

**Reverse Mode**
green LED is lighted if motor is in reverse rotation (additionally, an acoustic signal is given)

**ATC**
Switching to AL or AS mode

**Motor**
green LED is lighted if unit is turned on

**Preset keys for transmissions/reductions**

**Decreasing rotation speed or torque**

**Increasing rotation speed or torque**
## Preset Keys for Transmissions and Reductions

<table>
<thead>
<tr>
<th>Transmission/Reduction</th>
<th>Speed range</th>
<th>Torque range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission 1:1</td>
<td>2’000 - 30’000 min⁻¹</td>
<td>1 - 10 Ncm</td>
</tr>
<tr>
<td>Reduction 16:1</td>
<td>125 - 1’875 min⁻¹</td>
<td>10 - 30 Ncm</td>
</tr>
<tr>
<td>Reduction 70:1</td>
<td>28 - 428 min⁻¹</td>
<td>10 - 55 Ncm</td>
</tr>
</tbody>
</table>
Automatic Limiter (AL)

- Limiting the torque to a preset value (constant torque)
- For all contra angles

Application:
- Drilling in osseous material

AL mode 10 to 55 Ncm: according to instructions of the drill manufacturer

Automatic Stopper (AS)

- Torque protection – motor stops immediately on reaching the preset torque
- For contra angles 16:1 and 32:1 up to 70 min⁻¹

Application:
- For preparing implant threads or tightening implants and covering screws

AS mode 10 to 55 Ncm: according to instructions of the implant manufacturer
Micro Motor 31S

- Material: Aluminium
- DC motor with carbon brushes
- max. rotation speed: 30,000 rpm
- Wattage: 120 W
- Weight: 170 g
- E-type coupling (ISO 3964)
- Sterilisable / autoclavable at 134 °C max.
Handpieces and Contra Angles

All Nouvag handpieces and contra angles

✓ are sterilisable / autoclavable at 134 °C max.

✓ comply with all relevant norms and directives (CE 1275).

✓ are suited for all ISO 3964 E-type couplings.
Handpieces and Contra Angles

Handpieces

Micro saws

Contra angles for Kirschner-wires

Mucotome or Dermatome

Contra angles
NouClean Maintenance Spray

✓ For maintenance of your top-quality precision instruments made by NOUVAG

✓ Environmentally friendly - without CFCs

✓ Reusable nozzles; easy change-over to full spray can

✓ Nozzle for contra angle

✓ Nozzle for micro motor
## Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage:</td>
<td>115 V/60 Hz, 230 V/50 Hz</td>
</tr>
<tr>
<td>Power consumption:</td>
<td>130 VA</td>
</tr>
<tr>
<td>Drive system:</td>
<td>DC motor with carbon brushes</td>
</tr>
<tr>
<td>Speed range:</td>
<td>2’000 to 30’000 min⁻¹</td>
</tr>
<tr>
<td>Motor torque:</td>
<td>10 Ncm</td>
</tr>
<tr>
<td>Handpiece torque range:</td>
<td>1 - 55 Ncm</td>
</tr>
<tr>
<td>Dimensions control unit (W x D x H):</td>
<td>90 x 100 x 160 mm</td>
</tr>
<tr>
<td>Weight control unit:</td>
<td>2 kg</td>
</tr>
<tr>
<td>Accreditations:</td>
<td>CE1275 Class IIa / CSA / FDA / IEC 601, protection class 1, applied part type B</td>
</tr>
</tbody>
</table>