Arthroscopic Surgery
Nouvag HighSurg T1 is a high quality arthroscopy shaver motor system, made in Switzerland for abrasion, cutting, tissue and bone preparation, removing of lose fragments and for shaving off debris.

Ergonomic designed lightweight Arthroscopy Handpiece for ease of use, controlled by hand or foot switch.

Complete product range for Arthroscopic Surgery in combination with a shaver system, high quality blades, instruments and a precise Arthro-Pump.
High Surg T1

- Oscillation mode
- Various oscillation modes/frequencies
- Automatic memory
- Automatic recognition of attached Arthroscopy Shaver
- Precisely controlled motor speed
- Short oscillation frequency of 0.2 seconds
- Automatic controlled torque and limit control
- Blade positioning mode
- Bright and clear LED screen
The ergonomic and lightweight Arthroscopy Shaver Handpiece provides a high torque, smooth motor management and an easy to use button control.

- Light weight (370 g, without cable)
- Ergonomic design with easy to handle surface treatment
- 3 button multi control
- Flexible cord
- Enlarged suction channel
- Suction lock lever
- Emergency OFF
Shaver Blades for Arthroscopy

**Hooded round burr**
Ideal for bone site preparation, debridement of cartilage and osteochondral and resection of osteophyte.

**Acromionizer**
Shaping and resection bone and cartilage during acromioplasty and notchplasty.

**Penguin**
Aggressive tapered blade for easy access into and around a joint with precise tissue cutting.

**Tri-Spike**
Best for heavy tissue and bone resection for example also ACL stump (aggressive)

**Full Radius**
Ideal for general debridement application including soft tissue and bone resection.

**Aggressive Full Radius**
Best for soft tissue debridement like in chondroplasty.

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>Angle</th>
<th>length, mm</th>
<th>REF</th>
</tr>
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<td>4.5</td>
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</table>
Arthroscopy Instruments

Cut through basket punch forceps and grasping forceps

**NON STERILE** REF 3843
Basket punch Duckbill forceps, straight

**NON STERILE** REF 3844
Basket punch Duckbill forceps, angled 15°

**NON STERILE** REF 3845
Basket punch Duckbill forceps with 15° angled shaft.

**NON STERILE** REF 3848
Basket punch forceps, oval jaw form, 4.0/6.0 mm (W x L), straight

**NON STERILE** REF 3849
Basket punch forceps, narrow jaw form (1.0/6.0 mm) with hook, straight

**NON STERILE** REF 3853
Grasping forceps Pitbull, straight, jaw shape 4.0/9.0 mm (W x L)

Trocar sleeves, Trocars, Knife and Hook probes

**NON STERILE** REF 3826
Trocar Sleeve with 6.5 mm sleeve diameter, color code red.

**NON STERILE** REF 3832
High Flow Trocar Sleeve with 6.5 mm sleeve diameter, color code yellow.

**NON STERILE** REF 3829
Trocar, conical, with 4.2 mm diameter.

**NON STERILE** REF 3831
Trocar, 3 edged, sharp, with 4.2 mm diameter.

**NON STERILE** REF 3857
Banana knife, curved, double-cutting, 12 mm effectual length

**NON STERILE** REF 3855
Hook probe, graduated, 3 mm length of hook, Triangle handle

**NON STERILE** REF 3856
Hook probe, graduated, 5 mm length of hook, Triangle handle
Arthroscopes

<table>
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<th>Arthroscope Ø</th>
<th>Angle</th>
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<tr>
<td>3819</td>
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<td>3894</td>
<td>2.7 mm</td>
<td>30°</td>
<td>175 mm</td>
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</table>

Arthro Pump, a small and handy irrigation pump

Compact and powerful arthroscopy pump with automatic tube set validation and instrument recognition to maintain the correct flow rate. Easy tube set mount with best visibility due to open architecture.

**ARTHRO PUMP 3824 advantages**

- 1.5 l/min. maximal flow rate
- Optimal flow regulation due to automatic instrument detection and software control
- Flushing function to maintain visibility within the operation field (joint)
- Pole suspended for high maneuverability
- Patient protection due to transponder equipped tubing set

Side view showing the open architecture of the Arthro Pump for easy tube set attachment.

Ref. 3825 One way tubing set with transponder to make sure it is used only ones, to assure patient safety.
## Technical data

<table>
<thead>
<tr>
<th>HIGH SURG T1, REF 3367</th>
<th>ARTHROSCOPY HANDPIECE, REF 2093</th>
<th>ARTHRO PUMP 3824</th>
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<tbody>
<tr>
<td><strong>Voltage</strong></td>
<td>variable: 100 V~/ 115 V~/ 230 V~, 50–60 Hz</td>
<td><strong>Transmission ratio</strong></td>
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<tr>
<td><strong>Power consumption</strong></td>
<td>120 VA</td>
<td><strong>Max. torque</strong></td>
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<tr>
<td><strong>Applied parts</strong></td>
<td>Type BF</td>
<td><strong>Speed range</strong></td>
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<tr>
<td><strong>Protection class</strong></td>
<td>Class I</td>
<td><strong>Protection class</strong></td>
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<tr>
<td><strong>Dimensions (W x D x H)</strong></td>
<td>330 x 310 x 140 mm</td>
<td><strong>Weight</strong></td>
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<tr>
<td><strong>Power consumption</strong></td>
<td>60 VA</td>
<td><strong>Oscillation cycles</strong></td>
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<tr>
<td><strong>Weight</strong></td>
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<td><strong>Pedal IP code</strong></td>
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</table>

**CE pending**

### ARTHRO SCOPY HANDPIECE, REF 2093
- **Transmission ratio**: 4 : 1
- **Max. torque**: 10 Ncm
- **Speed range**: 300 – 6000 rpm
- **Protection class**: IPX6
- **Weight**: 370 g, without cable
- **Oscillation cycles**: 0.2 – 3.0 sec.

### ARTHRO PUMP 3824
- **Pressure range**: 5 – 150 mmHg
- **Maximal fluidal flow rate**: 1.5 l/min. ± 10 %
- **Mains**: 100 – 240 V AC at 50 – 60 Hz
- **Power consumption**: 60 VA
- **Current consumption**: 110 V: 1.2 A  
  240 V: 0.6 A
- **Fuse**: 2 x T 3.15 AH, 250 V AC
- **Classification**: Protection class I, Type BF, IP 41
- **Dimensions (w x h x d)**: 240 x 103 x 221 mm
- **Weight**: 2.8 kg

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