Aesculap Power Systems
... get the speed you need.
Aesculap – pioneer in the field of surgical power systems.

Aesculap introduced its first surgical electric motor as early as 1904. Further important milestones followed in subsequent decades with the introduction of compressed-air systems in the 1960s, the further development of flexible cable electric motors in the 1970s, the introduction of battery-driven motors in the 1980s and the development of pneumatic and electric high speed systems in the 1990s.

With the current systems Acculan® 3Ti, HiLAN® XS and microspeed® uni, Aesculap offers you customised solutions for virtually all fields of application. Our system range is completed by the innovative Eccos® storage system which enables timely, mechanical reprocessing of your Aesculap power systems.

Aesculap Power Systems

....get the speed you need.
How the catalogue works

1. Select motor system

![GB676 - GB578R microspeed uni Hi 150](image)

High speed motor for all Hi-Line and Hi-Line XS handpieces
150 W; 10,000 – 80,000 1/min; 3,5 Ncm; 99 x 27 mm; 155 g

indicates handpiece compatibility

2. Select handpiece & Eccos® holder

![GB756R - GB614R Hi-Line XS handpiece](image)

Hi-Line XS handpiece
1 ring code; spray nozzle GB761SU (not included)

article code Eccos® fixation

3. Select Tool
   Use Burrs & Blades catalogue 017599

![Aesculap Power Systems Burrs & Blades](image)

Chapter Hi-Line XS burrs

Katalog 2009

Chapter Hi-Line XS

2009

Electric Hi-Line XS

Hi-Line, Hi-Line XS
Content

Power Systems

- Electric Power Systems
  microspeed® uni
  microspeed® arthro
  Elan® EC

- Pneumatic Power Systems
  HiLAN® XS

- Battery Power Systems
  Acculan® 3Ti

Handpieces

- Hi-Line XS
- micro-Line
- mini-Line

Accessories

Processing

- Sterilit® Power Systems
- Eccos®

Index/Signs and Symbols
Power Systems

Electric Power Systems
- microspeed® uni
- microspeed® arthro
- Elan® EC

Pneumatic Power Systems
- HiLAN® XS

Battery Power Systems
- Acculan® 3Ti
Electric Power Systems

Microspeed® uni

The electric power system of the future

> The perfect system for neurotology, neurosurgery and spine
> Versatile system for small bone surgery and arthroscopy
> Reliable and durable due to the application of top-grade material and state-of-the-art technology
> Easy operation over touch screen and function control button
> Compatible with handpiece lines Hi-Line XS, Hi-Line, micro-Line and mini-Line
**GD670**

microspeed® uni control unit with irrigation pump; touch screen; power cord not included; pump flow 0 – 80 ml/min
100-240 V AC, 50/60Hz;
305 x 305 x 175 mm; 8.300 g
consisting parts:
GD412804 bottle holder

**GD61**

microspeed® uni foot control double pedal; protection type IPx8; anaesthetic proof class M
5.0 m;
250 x 225 x 75 mm; 2.390 g

**GD671**

microspeed® uni foot control single pedal; protection type IPx8; anaesthetic proof class M
5.0 m;
250 x 225 x 75 mm; 2.420 g

**GD672**

microspeed® uni motor cable for use with motors GD674, GD676, GD678, GD685
3.0 m; 360 g

**GD673**

microspeed® uni motor cable with hand control; for use with motors GD674, GD676, GD678, GD685
3.0 m; 380 g

**GD676**

microspeed® uni Hi 150 high speed motor for all Hi-Line and Hi-Line XS handpieces
150 W; 10,000 – 80,000 1/min;
3.5 Ncm; 99 x 27 mm;
155 g

Hi-Line, Hi-Line XS
consisting parts:
GB600920 Sterilit spray adaptor Hi
microspeed® uni

microspeed® uni XS Hi
high speed motor for all Hi-Line XS handpieces
115 W; 10,000 – 80,000 1/min;
2.6 Ncm; 76 x 18 mm;
80 g

consisting parts:
GB600870 Sterilit spray adaptor XS
GB600820 Sterilit spray adaptor Hi

microspeed® uni micro 150
low speed motor for all micro-Line handpieces
150 W; 1,000 – 30,000 1/min;
7.0 Ncm; 113 x 27 mm;
161 g

consisting parts:
GB600810 Sterilit spray adaptor micro-Line
GB600820 Sterilit spray adaptor Hi

microspeed® uni pistol handpiece
low speed pistol for all mini-Line handpieces except of GB373R, GB374R, GB385R, GB397R; oscillation and tapping mode
100 W; 1,000 – 16,000 1/min;
7.0 Ncm; 2.5 mm;
3.0 m; 95 x 27 x 120 mm;
180 g

consisting parts:
GB600830 Sterilit spray adaptor mini-Line
GD684225 K-wire protection sleeve

microspeed® uni shaver handpiece
with hand control; for Aesculap shaver tips; variable suction; automatic tip recognition; oscillation speed adjustable 0.3 – 2.0 seconds
100 W; 400 – 8,000 1/min; 3.0 m; 150 x 27 x 37 mm;
610 g

consisting parts:
GB600820 Sterilit spray adaptor Hi

GB675
GB586R
GB678
GB578R
GB684
GB579R
GB681
GB580R

GB686
GB592R

GB579R
GB578R
GB578R
GB579R
GB580R

GD675
GD678
GD674
GD684
GD681
GD581

Hi-Line XS
consisting parts:
GB600870 Sterilit spray adaptor XS
GB600820 Sterilit spray adaptor Hi

GB600820 Sterilit spray adaptor Hi

GB600810 Sterilit spray adaptor micro-Line
GB600820 Sterilit spray adaptor Hi

GB600820 Sterilit spray adaptor Hi

GB600830 Sterilit spray adaptor mini-Line

GB600820 Sterilit spray adaptor Hi

GB600820 Sterilit spray adaptor Hi

GB600820 Sterilit spray adaptor Hi
**microspeed® uni shaver handpiece**

for Aesculap shaver tips; variable suction; automatic tip recognition; oscillation speed adjustable 0.3 - 2.0 seconds; to be used in combination with foot control GD671

- Power: 100 W
- Speed: 400 - 8,000 1/min
- Length: 3.0 m
- Dimensions: 150 x 27 x 37 mm
- Weight: 510 g

**Consisting parts:**

- GB600820 Sterilit spray adaptor Hi

Power cords, irrigation sets and trolleys see 'Accessories'
Electric Power Systems
microspeed® arthro

The optimal system for arthroscopy and small bone surgery

> Reliability and durability due to the application of top-grade material and state-of-the-art manufacturing technology

> Shaver handpieces available with ergonomic two button hand control or with foot control

> Compact and lightweight construction, with automatic tip recognition

> Individual adjustment of oscillation frequency and acceleration and stopping characteristics

> Large range of shaver tips and burrs for excellent cutting and ablation performance
**microspeed® arthro control unit**
touch screen; power cord not included
100-240 V AC, 50/60Hz;
305 x 305 x 175 mm; 5.300 g

**microspeed® uni foot control**
double pedal; protection type IPx8;
aesthetic proof class M
5.0 m;
250 x 225 x 75 mm; 2.390 g

**microspeed® uni motor cable**
for use with motors GD674, GD676, GD678, GD685
3.0 m; 360 g

**microspeed® uni motor cable**
with hand control; for use with motors GD674, GD676, GD678, GD685
3.0 m; 380 g

**microspeed® uni shaver handpiece**
with hand control; for Aesculap shaver tips; variable suction;
automatic tip recognition; oscillation speed adjustable 0.3 – 2.0 seconds
100 W; 400 - 8.000 1/min;
3.0 m; 150 x 27 x 37 mm;
510 g

**microspeed® uni shaver handpiece**
for Aesculap shaver tips; variable suction; automatic tip recognition; oscillation speed adjustable 0.3 – 2.0 seconds; to be used in combination with foot control GD671
100 W; 400 - 8.000 1/min;
3.0 m; 150 x 27 x 37 mm;
510 g

**consisting parts:**
GB600820 Sterilit spray adaptor Hi
**microspeed® arthro**

**microspeed® uni pistol handpiece**
- Low speed pistol for all mini-Line handpieces except of GB373R, GB374R, GB385R, GB397R
- Oscillation and tapping mode: 100 W; 1,000 - 16,000 1/min; 7.0 Ncm; 2.5 mm; 7.0 Ncm; 95 x 27 x 120 mm; 480 g

**GB684**
- Consisting parts: GB600830 Sterilit spray adaptor mini-Line
- GD68422S K-wire protection sleeve

**Power cords, irrigation sets and trolleys see 'Accessories'**

**microspeed® uni mini 100**
- 100 W; 1,000 - 16,000 1/min; 7.0 Ncm; 95 x 27 mm; 176 g

**GB578R**
- Consisting parts: GB600820 Sterilit spray adaptor Hi

**microspeed® uni micro 150**
- Low speed motor for all micro-Line handpieces
- 150 W; 1,000 - 30,000 1/min; 7.0 Ncm; 113 x 27 mm; 161 g

**GB578R**
- Consisting parts: GB600810 Sterilit spray adaptor micro-Line
- GB600820 Sterilit spray adaptor Hi
Electric Power Systems
Elan® EC

The universal power system for all disciplines:

> Unlimited power
> Legendary reliability and durability
> Easy handling
> More than 15,000 systems installed worldwide
**Elan® EC control unit**
- Power cord not included
- 100-240 V AC, 50/60Hz
- 305 x 305 x 125 mm
- 7.300 g

**Elan® EC control unit with irrigation pump; power cord not included**
- 100-240 V AC, 50/60Hz
- 305 x 305 x 125 mm
- 7.900 g

**Consisting parts:**
- ** GD412804 bottle holder**
- **Foot control**
  - Waterproof (IP67) acc. to IEC601 and DIN40050; anaesthetic proof class M
  - 5.0 m
  - 130 x 200 x 60 mm
  - 1.900 g
- **Flexible cable micro**
  - for all micro-Line handpieces
  - 0 - 20.000 l/min
  - 1.8 m
  - 600 g

**Flexible cable micro**
- for all micro-Line handpieces
- 0 - 20.000 l/min
- 2.3 m
- 700 g

---

**Power cords, irrigation sets and trolleys see 'Accessories'**
Pneumatic Power Systems
HiLAN® XS

Power, reliability and flexibility.

> HiLAN® XS, HiLAN®, microLAN® - Integration of high and low speed

> The system for all applications in microsurgery

recommended pressure for all pneumatic AESCULAP Systems is 6 - 10 bar, 85 - 145 psi (technical information at 6 bar)
**HiLAN® XS**

**GA740R**

HiLAN® XS pneumatic high speed motor for all Hi-Line XS handpieces

- 50 W; 0 - 90,000 1/min;
- 2.5 Ncm; 66 x 16 mm;
- 63 g

**GB610R**

consisting parts:

GB600820 Sterilit spray adaptor Hi

**GA741R**

HiLAN® XS pneumatic high speed motor with forward and reverse action for all Hi-Line XS handpieces

- 50 W; 0 - 90,000 1/min;
- 2.5 Ncm; 66 x 16 mm;
- 67 g

**GB610R**

consisting parts:

GB600820 Sterilit spray adaptor Hi

---

**Hi-Line XS**

consisting parts:

GB600820 Sterilit spray adaptor Hi

---

**HiLAN®**

**GA529**

HiLAN® with hand control pneumatic high speed motor for all Hi-Line and Hi-Line XS handpieces

- 50 W; 0 - 90,000 1/min;
- 2.5 Ncm; 80 x 19 mm;
- 132 g

**GB559R**

consisting parts:

GB600820 Sterilit spray adaptor Hi

**GA519**

HiLAN® pneumatic high speed motor for all Hi-Line and Hi-Line XS handpieces

- 70 W; 0 - 80,000 1/min;
- 3.0 Ncm; 80 x 19 mm;
- 94 g

**GB559R**

consisting parts:

GB600820 Sterilit spray adaptor Hi

---

**HiLAN® perforator driver**

with Hudson chuck

- 130 W; 0 - 800 1/min;
- 3.6 Nm;
- 130 x 37 mm;
- 495 g

**GB609R**

consisting parts:

GB600820 Sterilit spray adaptor Hi
microLAN® 100 pneumatic motor for all micro-Line handpieces
100 W; 0 - 20,000 1/min; 8.0 Ncm; 95 x 22 mm; 130 g

micro-Line consisting parts:
GB600810 Sterilit spray adaptor
GB600820 Sterilit spray adaptor Hi

60 W; 0 - 25,000 1/min; 5.1 Ncm; 100 x 22 mm; 100 g

micro-Line consisting parts:
GB600810 Sterilit spray adaptor micro-Line
GB600820 Sterilit spray adaptor Hi
Acculan® 3Ti is the battery-operated power system for orthopaedics, traumatology, cardiothoracic surgery and dermatology.

> Powerful – up to 250 Watt

> Reliable – battery and control electronic are not sterilised

> Easy handling – Titanium housing allows mechanical alkaline reprocessing

Acculan® 3Ti – the reinvention of battery power tools
Acculan® 3Ti small drill with oscillation and tapping mode; not for use with Acetabulum reamers 220 W; 4.0 mm;
107 x 47 x 180 mm; 1.100 g
consisting parts: GA666 small NiMH battery
GA675 lid
GA678 sterile funnel
GA672207 K-wire protection sleeve
GA672211 rinsing adaptor

Acculan® 3Ti drill and reamer 250 W; 4.0 mm;
107 x 47 x 200 mm; 1.250 g
consisting parts: GA675 lid
GA676 NiMH battery
GA678 sterile funnel
GA672207 K-wire protection sleeve
GA672211 rinsing adapter

Acculan® 3Ti drill attachment with Zimmer/Hudson chuck
0 - 1.000 1/min; 5.0 Nm;
4.0 mm; 100 x 39 mm; 263 g

Acculan® 3Ti drill attachment with Jacobs chuck 0 - 6.5 mm
0 - 1.000 1/min; 5.0 Nm;
4.0 mm; 105 x 39 mm; 333 g
consisting parts: GA031R key

Acculan® 3Ti drill attachment with small AO chuck
0 - 1.000 1/min; 5.0 Nm;
4.0 mm; 90 x 39 mm; 246 g

Acculan® 3Ti K-wire attachment for K-wires from 0.6 to 4.0 mm
0 - 1.000 1/min;
93 x 36 x 137 mm; 300 g
Acculan® 3Ti drill attachment with Aesculap hexagonal chuck
0 - 1.000 1/min; 5.0 Nm;
4.0 mm; 93 x 39 mm; 253 g

Acculan® 3Ti drill attachment for Synthes radiolucent drive
511.300
0 - 900 1/min; 110 x 35 mm; 225 g

Acculan® 3Ti reamer attachment with Harris chuck
0 - 250 1/min; 19.0 Nm;
4.0 mm; 106 x 39 mm; 323 g

Acculan® 3Ti reamer attachment with large AO chuck
0 - 250 1/min; 19.0 Nm;
4.0 mm; 107 x 39 mm; 334 g

Acculan® 3Ti reamer attachment with Zimmer/Hudson chuck
0 - 250 1/min; 19.0 Nm;
4.0 mm; 118 x 39 mm; 344 g

Acculan® 3Ti sagittal saw attachment
for Acculan® 3Ti rapid action saw blades with a maximum useable length of 50 mm
0 - 17.000 1/min; 4°47'; 89 x 36 x 44 mm; 270 g
Acculan® 3Ti oscillating saw
250 W; 0 - 15,000 1/min;
4°47'; 107 x 47 x 200 mm;
1.600 g
consisting parts:
GA675 lid
GA676 NiMH battery
GA678 sterile funnel

Acculan® 3Ti straight oscillating saw
250 W; 0 - 15,000 1/min;
4°47'; 288 x 54 x 74 mm;
1.500 g
consisting parts:
GA675 lid
GA676 NiMH battery
GA678 sterile funnel

Acculan® 3Ti dermatome
with keyless adjustable; thickness adjustable (1/10 mm steps);
cutting thickness: 0.2 - 1.2 mm;
cutting width: max. 78 mm;
suitable blades GB228R (to be ordered separately)
220 W; 0 - 6,500 1/min;
3.1 mm; 290 x 110 x 90 mm;
1.700 g
consisting parts:
GA666 small NiMH battery
GA675 lid
GA678 sterile funnel

Acculan® 3Ti reciprocating saw
250 W; 0 - 15,000 1/min;
3.2 mm; 180 x 47 x 200 mm;
1.540 g
consisting parts:
GA675 lid
GA676 NiMH battery
GA678 sterile funnel
GB440215 cleaning plate

Acculan® 3Ti charger
for Acculan® 3Ti batteries GA666 and GA676; 4 charging bays;
avoids memory effect; automatic battery diagnosis function; with optional available charging bay GA677830 also compatible to Acculan® II batteries GA616, GA626 and GA646; power cord not included
100-240 V AC, 50/60Hz;
440 x 140 x 180 mm; 3.500 g

Protection guide
for use with GA674 and saw blade GC761R
Acculan® 3Ti

Acculan® 3Ti small NiMH battery
only for GA670 and GA671; with integrated electronic motor control
9.6V; 1.05Ah
120 x 43 x 50 mm; 304 g

Acculan® 3Ti NiMH battery
only for GA668, GA672, GA673, GA674;
with integrated electronic motor control
9.6V; 1.95Ah
140 x 43 x 50 mm; 425 g

Acculan® 3Ti lid

Acculan® 3Ti sterile funnel

Acculan® 3Ti battery removal device
## Handpieces

- Hi-Line XS
- micro-Line
- mini-Line
Hi–Line XS handpieces

<table>
<thead>
<tr>
<th>Straight Hi–Line XS handpieces for the Hi–Line XS burr range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GB751R</strong></td>
</tr>
<tr>
<td>Hi–Line XS handpiece, straight</td>
</tr>
</tbody>
</table>
1 ring code; spray nozzle GB761SU (not included)  |
| **GB752R** | **GB614R** |
| Hi–Line XS handpiece, straight |  
2 ring code; spray nozzle GB762SU (not included)  |
| **GB753R** | **GB614R** |
| Hi–Line XS handpiece, straight |  
3 ring code; spray nozzle GB763SU (not included)  |
Angled Hi-Line XS handpieces for the Hi-Line XS burr range

GB756R
Hi-Line XS handpiece, angled
1 ring code;
spray nozzle GB761SU (not included)

GB757R
Hi-Line XS handpiece, angled
2 ring code;
spray nozzle GB762SU (not included)

GB758R
Hi-Line XS handpiece, angled
3 ring code;
spray nozzle GB763SU (not included)
Hi-Line XS handpieces

- Hi-Line XS handpiece, angled extra long XL1; 1 bold ring code; spray nozzle GB764SU (not included)
- Hi-Line XS handpiece, angled extra long XL2; 2 bold ring code; spray nozzle GB765SU (not included)
- Hi-Line XS handpiece, angled extra long XL3; 3 bold ring code; spray nozzle GB766SU (not included)
Hi-Line XS craniotome and multi-purpose handpiece to be used with dura guards, drill depth guard and holding sleeve GB741R - GB748R, spray nozzle GB767SU (not included).

Hi-Line XS dura guard fixed; 1 ring code; to be used with craniotome burr GE420R, GE420SU, GE429SU.

Hi-Line XS dura guard fixed; 2 ring code; to be used with craniotome burr GE520R, GE520SU, GE529SU.

Hi-Line XS dura guard fixed; 3 ring code; to be used with craniotome burr GE620R, GE620SU, GE629SU.

Hi-Line XS dura guard steerable; 1 ring code; to be used with craniotome burr GE420R, GE420SU, GE429SU.

Hi-Line XS dura guard steerable; 2 ring code; to be used with craniotome burr GE520R, GE520SU, GE529SU.

Hi-Line XS dura guard steerable; 3 ring code; to be used with craniotome burr GE620R, GE620SU, GE629SU.
Hi-Line XS handpieces

Hi-Line XS dura guard
steerable;
3 ring code;
to be used with craniotome burr
GE620R, GE620SU, GE629SU

Hi-Line XS drill depth guard
for craniotome handpiece and
multipurpose handpiece GB740R
2 – 8 mm

Hi-Line XS holding sleeve
for craniotome handpiece and
multipurpose handpiece GB740R
micro-Line handpieces

For burrs with shank diameter of 2.35 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB109</td>
<td>micro-Line handpiece coding: 1 blue ring; for 51 mm burrs; 1:1; 81 mm</td>
</tr>
<tr>
<td>GB681R</td>
<td>micro-Line handpiece coding: 1 blue ring; for 70 mm burrs; suitable spray nozzle GD460R (not included); 1:1; 97 mm</td>
</tr>
<tr>
<td>GD450M</td>
<td>micro-Line handpiece coding: 1 blue ring; for 95 mm burrs; suitable spray nozzle GD461R (not included); 1:1; 127 mm</td>
</tr>
</tbody>
</table>
For burrs with shank diameter of 2.35 mm; angulation 21°

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD455M</td>
<td>micro-Line handpiece, angled coding: 1 red ring; for 70 mm burrs; suitable spray nozzle GD460R (not included)</td>
<td>1:2; 120 mm</td>
</tr>
<tr>
<td>GB681R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GD456M</td>
<td>micro-Line handpiece, angled coding: 1 red ring; for 95 mm burrs; suitable spray nozzle GD461R (not included)</td>
<td>1:2; 150 mm</td>
</tr>
<tr>
<td>GB681R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GD457M</td>
<td>micro-Line handpiece, angled coding: 1 red ring; for 125 mm burrs; suitable spray nozzle GD462R (not included)</td>
<td>1:2; 180 mm</td>
</tr>
<tr>
<td>GB681R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
micro-Line handpieces

For use with micro-inserts with imperator gearing, angulation 21°

| GB114R | GB681R | micro-Line handpiece  
coding: 1 red ring; suitable spray nozzle GB117R (not included)  
1:2; 77 mm |
|--------|--------|---------------------------------------------------|
| GB111  | GB681R | micro-Line handpiece  
coding: 1 green ring; suitable spray nozzle GB117R (not included)  
4:1; 74 mm |
| GB113  | GB681R | micro-Line handpiece  
coding: 2 green rings; suitable spray nozzle GB117R (not included)  
30:1; 74 mm |
| GB173  | GB690R | Imperator attachment  
for burrs with 2.35 mm diameter; up to 70 mm length; minimal shaft length 30 mm; spray nozzle GB117R (not included)  
1:1; 43 mm |
| GB164  | GB690R | Mounting tool  
for imperator attachment GB173 |
| GB119  | GB690R | Contra angle head  
coding: 1 green dot; for tools with Dental shank  
2:1; 43 mm |
**micro-Line reciprocating saw**

- Keyless; suitable spray nozzle GD306R (not included)
- 2.5:1; ≤⇒ 8,000 1/min;
- 1.3 mm; ≤⇒ 48 g
- Consisting parts: GD320R saw blade

---

**micro-Line sagittal saw**

- With captive nut; suitable spray nozzle GD308R (not included)
- 1:1; ≤⇒ 20,000 1/min; ≤⇒ 7°;
- 50 g
- Consisting parts: GD372206 key

---

**micro-Line transversal saw**

- Suitable spray nozzle GA221R (not included)
- 1:1; ≤⇒ 20,000 1/min; ≤⇒ 10°24';
- 385 g
- Consisting parts: GB020R Allen key

---

**micro-Line drill pistol**

- Suitable spray nozzle GA221R (not included)
- 20:1; ≤⇒ 2.7 mm; ≤⇒ 700 g
micro-Line handpieces

- **GB222**
  - Jacobs chuck
  - Ø 0 - 4 mm
  - consisting parts: GA062R key

- **GB223**
  - Jacobs chuck
  - Ø 0 - 6.5 mm
  - consisting parts: GA031R key

- **GB224**
  - Small AO chuck

- **GB227R**
  - K-wire driver
  - for K-wires from 0.6 to 2.5 mm

- **GB865**
  - micro-Line motor chisel
  - for chisels GD905R-GD947R
  - 1:1; 216 g

- **GB169R**
  - micro-Line drill
  - for exchangeable chucks; suitable spray nozzle GA228R (not included)
  - 20:1; 280 g
  - consisting parts: GCS23200 ring spanner

- **GB682R**
  - spray nozzle GA228R (not included)
GB106R
Hudson chuck

GB268R
micro-Line craniotome
with fixed duraguard
1:1; 200 g
consisting parts:
GB267R handpiece
GB298R fixed dura-guard
GC303R burr

GB231R
micro-Line Dermatome acc. to Wagner
cutting width keyless adjustable;
thickness adjustable (1/10 mm steps);
cutting thickness: 0.2 - 1.2 mm;
cutting width: max. 78 mm
6:1; 3.0 mm; 770 g
consisting parts:
GB228R blades

GB265R
micro-Line craniotome
with turnable duraguard
1:1; 200 g
consisting parts:
GB266M turnable dura-guard
GB267R handpiece
GC303R burr

GB365R
micro-Line pediatric craniotome,
Freiburg pattern
with fixed duraguard
1:1; 100 g
consisting parts:
GB109 handpiece
GB291R dura-guard
GC304R burr
mini-Line handpieces

**GB376R**
*mini-Line burr attachment*
- For 2.35 mm shank
- For burrs up to 70mm length
- Suitable spray nozzle GB378 (not included)
- 1:2
- Weight: 108 g

**GB383R**
*mini-Line drill attachment*
- Jacobs chuck
- Suitable spray nozzle GB378 (not included)
- Ø 0 - 4 mm
- 16:1
- Weight: 160 g
- Consisting parts: GA062R key

**GB389R**
*mini-Line drill attachment*
- With quick coupling for tools with hexagonal shank
- Suitable spray nozzle GB378 (not included)
- 36:1
- Weight: 145 g

**GB382R**
*mini-Line drill attachment*
- For tools with AO shank
- Suitable spray nozzle GB378 (not included)
- 16:1
- Weight: 98 g

**GB673R**
*mini-Line heavy duty drill attachment*
- Jacobs chuck
- Suitable spray nozzle GB378 (not included)
- Ø 0 - 6.5 mm
- 36:1
- Weight: 220 g
- Consisting parts: GA031R key

**GB674R**
*mini-Line angled drill attachment*
- For tools with dental shank
- 8:1
- Weight: 91 g

**GB673R**
*mini-Line handpieces*
GB398R  mini-Line K-wire attachment for use with GD684; for K-wires from 0.6 to 2.5 mm 16:1; 190 g

GB674R  mini-Line angled K-wire attachment for use with straight mini motors; for K-wires from 0.6 to 1.6 mm 17:1; 120 g

GB390R  mini-Line sagittal saw attachment 1:1; 5°; 100 g

GB391R  mini-Line reciprocating saw attachment 1:1; 2.1 mm; 100 g

GB392R  mini-Line transversal saw attachment 1:1; 10°; 140 g

GB673R  micro-Line adaptor handpiece: micro; motor: mini
Accessories

Accessories for electric motors

**GA411** microspeed® uni mobile stand
- Adjustable height
- 1200 – 1500 mm

**GA415** Mobile stand
- for Elan®, microspeed® EC and Microtron® devices; adjustable height
- 1200 – 1500 mm

**GD416M** Mobile stand
- for AESCULAP control units
- 1520 mm
- Consisting parts: GD414R

**GD421** microspeed® uni sterile shield
- for GD416M and GA411; for sterile drapes GA414

**GA412804** Bottle holder

**GA414** Sterile disposable drape
- for GD417, GA419 and GD421
- Package of 50 pieces
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Length</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE780</td>
<td>Power cord Europe; black</td>
<td>1.5 m</td>
<td>Black</td>
</tr>
<tr>
<td>TE730</td>
<td>Power cord Europe; black</td>
<td>5.0 m</td>
<td>Black</td>
</tr>
<tr>
<td>TE734</td>
<td>Power cord UK; black</td>
<td>5.0 m</td>
<td>Black</td>
</tr>
<tr>
<td>TE735</td>
<td>Power cord USA, Canada, Japan; grey</td>
<td>5.0 m</td>
<td>Grey</td>
</tr>
</tbody>
</table>
## Accessories

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th>Air hoses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>GA505R</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air hose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0 m; DIN</td>
</tr>
<tr>
<td>AESCULAP Dräger</td>
<td>small</td>
<td><strong>GA513R</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air hose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.3 m; DIN</td>
</tr>
<tr>
<td>AESCULAP Dräger</td>
<td>small</td>
<td><strong>GA523R</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air hose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.3 m; DIN</td>
</tr>
<tr>
<td>DIN</td>
<td>small</td>
<td><strong>GA507R</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air hose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0 m; DIN</td>
</tr>
</tbody>
</table>
### Accessories

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schrader with diffusor</td>
<td>small</td>
</tr>
<tr>
<td><strong>GA506R</strong></td>
<td><strong>GB575R</strong></td>
</tr>
<tr>
<td>Air hose</td>
<td>Air hose</td>
</tr>
<tr>
<td>6.0 m</td>
<td>6.0 m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>AESCULAP Dräger</td>
<td>large</td>
</tr>
<tr>
<td><strong>GA464</strong></td>
<td><strong>GB463R</strong></td>
</tr>
<tr>
<td>Air hose</td>
<td>Air hose</td>
</tr>
<tr>
<td>3.0 m</td>
<td>5.0 m</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GA466</strong></td>
<td><strong>GB463R</strong></td>
</tr>
<tr>
<td>Air hose, spiral type</td>
<td>Air hose</td>
</tr>
<tr>
<td>3.0 m</td>
<td>5.0 m</td>
</tr>
</tbody>
</table>

---

Recommended pressure for all pneumatic AESCULAP Systems is 6 - 10 bar, 85 - 145 psi
Motor connection large fits: GA200, GA430, GA437, GA440, GA521, GA530
## Accessories

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th>GA463</th>
<th>GA465</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN</td>
<td>large</td>
<td>Air hose</td>
<td>3.0 m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th>GA461</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN with diffusor</td>
<td>large</td>
<td>Air hose</td>
<td>3.0 m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th>GA468</th>
<th>GB480R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schrader with diffusor</td>
<td>large</td>
<td>Air hose</td>
<td>5.0 m</td>
</tr>
</tbody>
</table>
### Pneumatic Accessories

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th>Extension Hoses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AESCULAP Dräger</td>
<td>AESCULAP Dräger</td>
<td><strong>GA194</strong></td>
</tr>
<tr>
<td><strong>Extension hose</strong></td>
<td><strong>Extension hose</strong></td>
<td>3.0 m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall outlet</th>
<th>Motor inlet</th>
<th><strong>GA087</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN</td>
<td>DIN</td>
<td><strong>Extension hose</strong></td>
</tr>
<tr>
<td>5.0 m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Foot control

**GA521**
Foot control for pneumatic systems
- Air inlet: large
- Air outlet: AESCULAP Dräger

#### Air pressure reducer

**GA099**
Air pressure reducer with DIN quick lock coupling:
- For compressed air cylinders acc. to DIN477 G5/8” AG
- Air inlet 100-200bar / 2130-2840psi
- Consisting parts:
  - GA088C DIN quick lock coupler
**Accessories**

- **GA088C**
  Quick lock coupler for air pressure reducer GA099; for DIN system

- **GA091C**
  Quick lock coupler for French system

- **GA508R**
  Angled hose adaptor for all small Aesculap motors

- **GA206R**
  Adaptor for pneumatic systems AESCULAP motor large - Synthes air hoses

- **GA208**
  Adaptor for pneumatic systems Synthes motor - air hose with Aesculap motor connector large
Irrigation

**GA390**
Irrigation pump
for pneumatic systems; to be used with tubing set GA391SU and GA526P (not included)
pump flow 0- 80 ml/min
100-240 V AC, 50/60Hz;
305 x 305 x 135 mm; 5.500 g
consisting parts:
GD412804 bottle holder

**GA391SU**
Tubing Set
complete; including adapter for spray nozzles and punch for irrigation bottle;
for microspeed® uni, Microspeed® EC, Microtron® EC, Elan® (micro and mini cable only);
HiLAN® in connection with GA526P
package of 10 pieces

**GA392SU**
Tubing set with Y-Adaptor
complete; including adapter for spray nozzles and punch for irrigation bottle;
for microspeed® uni
package of 10 pieces

**GA526P**
Fixation clips
for combining tubing set GA391SU with pneumatic motors
package of 8 pieces

Adaptor

**GB421R**
Hudson adaptor
tool: Hudson;
motor: Harris
3.8 mm

**GB422R**
AO large adaptor
tool: AO large;
motor: Harris
3.8 mm
Accessories

GB423R  DIN adaptor
  tool: DIN;
  motor: Harris
  3.8 mm

GB426R  Jacobs chuck
  tool: Jacobs;
  motor: Harris
  Ø 0 - 6.5 mm
  3.8 mm

GB182R  Harris adaptor
  tool: Harris;
  motor: Hudson
  not canulated

GB184R  Harris adaptor
  tool: Harris;
  motor: AO large
  3.5 mm

GB425R  Zimmer/Hudson adaptor
  tool: Zimmer/Hudson;
  motor: Harris
  3.8 mm

GB628R  Synthes DHS/DCS adaptor
  tool: Synthes DHS/DCS;
  motor: AO large
  4.2 mm

GB467R  GB467R

GB690R  GB690R
Harris adaptor
- tool: Harris
- motor: DIN
- size: 3.5 mm

DIN adaptor
- tool: DIN
- motor: AO large
- size: 3.8 mm

AO large adaptor
- tool: AO large
- motor: DIN
- size: 4.0 mm

Harris adaptor
- tool: Harris
- motor: triangle
- size: 3.5 mm

micro-Line adaptor
- handpiece: micro
- motor: mini
## Accessories

### Keys

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA186209</td>
<td>Key for mini-coupling</td>
<td>GA186, GA551, GA552, GA647, GD674, GD684</td>
</tr>
<tr>
<td>GA031R</td>
<td>Key for large 6,5mm Jacobs chuck; with integrated Allen key, width across flats 3,5mm</td>
<td>GB223R, GB386R, GB416R, GB426R, GB424R, GB177R, GB638R</td>
</tr>
<tr>
<td>TD472</td>
<td>Ring spanner for Aesculap star coupling</td>
<td></td>
</tr>
<tr>
<td>GB372206</td>
<td>Key</td>
<td>width across flats 6,0 mm suitable for GD307</td>
</tr>
</tbody>
</table>

Other accessories include:

Skin graft mesher

BA720R
Skin graft mesher
for use in combination with skin carriers BA721 (1:1.5) / BA722 (1:3) / BA723 (1:6)
150 x 195 x 105 mm; 4,600 g
consisting parts:
BA725R cutting roller
BA726R ratchet wrench

Cement injection

GB141
Cement syringe
for cement injector GB171N; with special injection tubing
50 ml
package of 10 pieces

Bone mill

GB040
Bone mill
for use with motor or crank handle
consisting parts:
GB042R crushing drum

GB042R
Crushing drum
standard; Harris shaft; section of the produced bone chip
0.7 x 3 mm

GB171N
Cement injector
for disposable syringe GB141
Accessories

**GB043R**
Crushing drum
fine; Harris shaft; section of the produced bone chip 0.7 x 2 mm

**GB044R**
Crushing drum
coars; Harris shaft; section of the produced bone chip 0.7 x 4 mm

**GB041R**
Crank handle for GB040

**GB046**
Insert for GB040
for small bone grafts
Processing

Sterilit® Power Systems

Eccos®

- Eccos® for Power Systems
- Eccos® for handpieces
- Eccos® for accessories
- Eccos® sets
## Sterilit® Power Systems

| GB600 | Sterilit® Power Systems  
|       | 300 ml  
|       | package of 6 pieces  |

| GB600810 | Sterilit® Power Systems spray adaptor  
|          | for micro-Line  |

| GB600820 | Sterilit® Power Systems spray adaptor  
|          | for HiLAN®, HiLAN® XS, Hi-Line, Hi-Line XS, Microspeed® EC, microspeed® uni, microLAN, miniLAN  |

| GB600830 | Sterilit® Power Systems spray adaptor  
|          | for mini-Line  |

| GB600840 | Sterilit® Power Systems spray adaptor  
|          | for Acculan® 3Ti  |

| GB600870 | Sterilit® Power Systems spray adaptor  
|          | for microspeed® uni XS  |
Sterilit® drip lubricator
50 ml
The solution for storage and mechanical reprocessing of your Aesculap Power Systems.

Basic requirements for mechanical reprocessing in combination with the Eccos® system:

> A suitable cleaner must be used (pH < 11 for Aluminum components)
> The temperature in the cleaning cycle must not exceed 55°C
> Clean for at least 3 minutes
> Apply intermediate rinse for at least 1 minute
> Carry out intensive final rinse with distilled, demineralised or fully desalinated water
> Only Thermal disinfection: 5 minutes rinse at 93°C with distilled, demineralised or fully desalinated water
> Complete the programme with a drying phase of at least 10 minutes at a temperature of not more than 120°
micropress® uni/micropress® arthro

GB679R
Eccos® fixation
for GD684
56 mm

GB678R
Eccos® fixation
for GD674, GD676, GD678
56 mm

GB672R
Eccos® fixation
for GD672, GD673
56 mm

GB682R
Eccos® fixation
for GD682, GD681
56 mm

GB685R
Eccos® fixation
for GD685
56 mm

GB675R
Eccos® fixation
for GD675
56 mm

GB579R

GB578R

GB689R
Eccos® fixation
for GD672, GD673
56 mm

GB80R
Eccos® fixation
for GD682, GD681
56 mm

GB86R
Eccos® fixation
for GD675
56 mm
Eccos® for Power Systems

**Elan® EC**

- **GB690R**
  - Eccos® fixation
  - for GA173, GA176
  - 56 mm

**HiLAN® XS, HiLAN®**

- **GB577R**
  - Eccos® fixation
  - for small Aesculap motors with mounted angled hose adaptor
  - GA508R
  - 56 mm

- **GB609R**
  - Eccos® fixation
  - for GA742R, GA522R
  - 56 mm

- **GB595R**
  - Eccos® fixation
  - for GA519, GA529
  - 56 mm
**microLAN®**

**GB685R**
Eccos® fixation
for GA502, GA553, GA554, GD657, GD658

56 mm

---

**Acculan® 3Ti**

**GB495R**
Eccos® fixation
for GA671, GA672, GA673, GA674

106 mm

---

**GB496R**
Eccos® fixation

106 mm

---

**GB497R**
Eccos® fixation

106 mm

---

**GB487R**
Eccos® fixation
for GA675

56 mm
Eccos® for Power Systems

GB498R
Eccos® fixation
for GA678
76 mm

GB498R
Eccos® fixation
for GA614, GA644, GA679
106 mm

GB498R
Eccos® fixation
for GA668, GA670
106 mm
Hi-Line XS

**GB611R**
Eccos® fixation for 1 Hi-Line XS handpiece
56 mm

**GB614R**
Eccos® fixation for 3 Hi-Line XS handpieces
56 mm

**GB613R**
Eccos® fixation
for 13 burrs of the Hi-Line XS, Hi-Line or 2,35 mm shaft range
36 mm

**GB615R**
Eccos® fixation
for GB741R - GB748R
56 mm

micro-Line

**GB681R**
Eccos® fixation
56 mm

**GB686R**
Eccos® fixation
for GB266, GB298, GB436R
56 mm
Eccos® for handpieces

**GB682R**

- 76 mm

**GB673R**

- 56 mm

**GB674R**

- 56 mm

**mini-Line**
Skin graft mesher

GB698R
Eccos® fixation
for BA720R
106 mm

GB564R
Eccos® fixation
for GA505R, GA513R, GA523R
56 mm

GB463R
Eccos® fixation
for GA460, GA464, GA466
76 mm

GB575R
Eccos® fixation
for GA506R
76 mm

GB576R
Eccos® fixation
for GA507R
56 mm

Accessories
Eccos® for accessories

**GB467R**
56 mm

**GB474R**

**GB474R**
Eccos® fixation for GA206R
56 mm

**GB480R**
Eccos® fixation for GA468R
76 mm

**GB481R**
Eccos® fixation for saw blades and other accessories
56 mm

**GB572R**
Eccos® fixation for GB300R - GB308R
56 mm

**GB690R**
Eccos® fixation for GB173R, GB119, GB154, GB194, GB238R, GA031201, GB424201, GA437224, GB009C
36 mm
GB584R
Eccos® fixation
for Aesculap shaver tips with diam. 4.5; 5.5 and 6.0 mm
56 mm

GB585R
Eccos® fixation
for Aesculap shaver tips with diam. 3.7 mm
56 mm

GB473
Eccos® mounting set
Eccos® sets

Acculan® 3Ti

GB243R
Eccos® Set for 2 Acculan® 3Ti machines
106 mm
consisting parts:
GB243800
GB481R
GB487R
GB488R
GB495R
GB496R
GB497R
GB690R

GB244R
Eccos® Set for 1 Acculan® 3Ti machine
106 mm
consisting parts:
GB243800
GB481R
GB487R
GB488R
GB495R
GB496R
GB497R
GB690R

GB256R
Eccos® Set for Acculan® 3Ti dermatome
106 mm
consisting parts:
GB487R
GB488R
GB498R
JC254R
Eccos® Set for microspeed® uni
Neurosurgery
56 mm
consisting parts:
GB586R
GB587R
GB614R
GB615R
GB689R
JF212R

Eccos® Set for microspeed® uni
small bone surgery
56 mm
consisting parts:
GB579R
GB673R
GB674R
GB690R
JF212R

Eccos® Set for HiLAN® XS
56 mm
consisting parts:
GB561R
GB564R
GB610R
GB614R
GB615R
JF213R
Index/Signs and Symbols
## Index by reference numbers

<table>
<thead>
<tr>
<th>Reference</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA720R</td>
<td>53</td>
</tr>
<tr>
<td>BA725R</td>
<td>53</td>
</tr>
<tr>
<td>GA031R</td>
<td>52</td>
</tr>
<tr>
<td>GA059</td>
<td>57</td>
</tr>
<tr>
<td>GA062R</td>
<td>52</td>
</tr>
<tr>
<td>GA087</td>
<td>47</td>
</tr>
<tr>
<td>GA088C</td>
<td>48</td>
</tr>
<tr>
<td>GA091C</td>
<td>48</td>
</tr>
<tr>
<td>GA099</td>
<td>47</td>
</tr>
<tr>
<td>GA173</td>
<td>17</td>
</tr>
<tr>
<td>GA176</td>
<td>17</td>
</tr>
<tr>
<td>GA186209</td>
<td>52</td>
</tr>
<tr>
<td>GA187R</td>
<td>41,51</td>
</tr>
<tr>
<td>GA188</td>
<td>17</td>
</tr>
<tr>
<td>GA194</td>
<td>47</td>
</tr>
<tr>
<td>GA195</td>
<td>47</td>
</tr>
<tr>
<td>GA205R</td>
<td>48</td>
</tr>
<tr>
<td>GA208</td>
<td>48</td>
</tr>
<tr>
<td>GA391SU</td>
<td>49</td>
</tr>
<tr>
<td>GA392SU</td>
<td>49</td>
</tr>
<tr>
<td>GA411</td>
<td>42</td>
</tr>
<tr>
<td>GA414</td>
<td>42</td>
</tr>
<tr>
<td>GA415</td>
<td>42</td>
</tr>
<tr>
<td>GA460</td>
<td>45</td>
</tr>
<tr>
<td>GA461</td>
<td>46</td>
</tr>
<tr>
<td>GA463</td>
<td>46</td>
</tr>
<tr>
<td>GA464</td>
<td>45</td>
</tr>
<tr>
<td>GA465</td>
<td>46</td>
</tr>
<tr>
<td>GA466</td>
<td>45</td>
</tr>
<tr>
<td>GA468</td>
<td>46</td>
</tr>
<tr>
<td>GA505R</td>
<td>44</td>
</tr>
<tr>
<td>GA506R</td>
<td>45</td>
</tr>
<tr>
<td>GA507R</td>
<td>44</td>
</tr>
<tr>
<td>GA508R</td>
<td>48</td>
</tr>
<tr>
<td>GA513R</td>
<td>44</td>
</tr>
<tr>
<td>GA519</td>
<td>19</td>
</tr>
<tr>
<td>GA521</td>
<td>47</td>
</tr>
<tr>
<td>GA523R</td>
<td>44</td>
</tr>
<tr>
<td>GA526P</td>
<td>49</td>
</tr>
<tr>
<td>GA529</td>
<td>49</td>
</tr>
<tr>
<td>GA530</td>
<td>49</td>
</tr>
<tr>
<td>GA553</td>
<td>20</td>
</tr>
<tr>
<td>GA554</td>
<td>20</td>
</tr>
<tr>
<td>GA666</td>
<td>26</td>
</tr>
<tr>
<td>GA668</td>
<td>25</td>
</tr>
<tr>
<td>GA670</td>
<td>25</td>
</tr>
<tr>
<td>GA671</td>
<td>23</td>
</tr>
<tr>
<td>GA672</td>
<td>23</td>
</tr>
<tr>
<td>GA673</td>
<td>25</td>
</tr>
<tr>
<td>GA674</td>
<td>25</td>
</tr>
<tr>
<td>GA675</td>
<td>26</td>
</tr>
<tr>
<td>GB265R</td>
<td>39</td>
</tr>
<tr>
<td>GB268R</td>
<td>39</td>
</tr>
<tr>
<td>GB292</td>
<td>39</td>
</tr>
<tr>
<td>GB373R</td>
<td>40</td>
</tr>
<tr>
<td>GB374R</td>
<td>41</td>
</tr>
<tr>
<td>GB376R</td>
<td>40</td>
</tr>
<tr>
<td>GB377R</td>
<td>40</td>
</tr>
<tr>
<td>GB382R</td>
<td>40</td>
</tr>
<tr>
<td>GB383R</td>
<td>40</td>
</tr>
<tr>
<td>GB389R</td>
<td>40</td>
</tr>
<tr>
<td>GB390R</td>
<td>41</td>
</tr>
<tr>
<td>GB391R</td>
<td>41</td>
</tr>
<tr>
<td>GB392R</td>
<td>41</td>
</tr>
<tr>
<td>GB399R</td>
<td>41</td>
</tr>
<tr>
<td>GB411</td>
<td>36</td>
</tr>
<tr>
<td>GB412R</td>
<td>37</td>
</tr>
<tr>
<td>GB419</td>
<td>37</td>
</tr>
<tr>
<td>GB428R</td>
<td>37</td>
</tr>
<tr>
<td>GB439</td>
<td>37</td>
</tr>
<tr>
<td>GB450R</td>
<td>37</td>
</tr>
<tr>
<td>GB461R</td>
<td>37</td>
</tr>
<tr>
<td>GB473</td>
<td>37</td>
</tr>
<tr>
<td>GB474R</td>
<td>37</td>
</tr>
<tr>
<td>GB486R</td>
<td>37</td>
</tr>
<tr>
<td>GB489R</td>
<td>37</td>
</tr>
<tr>
<td>GB495R</td>
<td>37</td>
</tr>
<tr>
<td>GB499R</td>
<td>37</td>
</tr>
<tr>
<td>GB505R</td>
<td>37</td>
</tr>
<tr>
<td>GB519</td>
<td>37</td>
</tr>
<tr>
<td>GB520R</td>
<td>37</td>
</tr>
<tr>
<td>GB521R</td>
<td>37</td>
</tr>
<tr>
<td>GB523R</td>
<td>37</td>
</tr>
<tr>
<td>GB525R</td>
<td>37</td>
</tr>
<tr>
<td>GB564R</td>
<td>37</td>
</tr>
<tr>
<td>GB571R</td>
<td>37</td>
</tr>
<tr>
<td>GB586R</td>
<td>37</td>
</tr>
<tr>
<td>GB600840</td>
<td>56</td>
</tr>
<tr>
<td>GB600870</td>
<td>56</td>
</tr>
<tr>
<td>GB609R</td>
<td>60</td>
</tr>
<tr>
<td>GB610R</td>
<td>63</td>
</tr>
<tr>
<td>GB611R</td>
<td>63</td>
</tr>
<tr>
<td>GB613R</td>
<td>63</td>
</tr>
<tr>
<td>GB614R</td>
<td>63</td>
</tr>
<tr>
<td>GB615R</td>
<td>63</td>
</tr>
<tr>
<td>GB628R</td>
<td>50</td>
</tr>
<tr>
<td>GB630R</td>
<td>23</td>
</tr>
<tr>
<td>GB635R</td>
<td>23</td>
</tr>
<tr>
<td>GB636R</td>
<td>24</td>
</tr>
<tr>
<td>GB638R</td>
<td>23</td>
</tr>
<tr>
<td>GB643R</td>
<td>23</td>
</tr>
<tr>
<td>GB645R</td>
<td>24</td>
</tr>
<tr>
<td>GB655R</td>
<td>24</td>
</tr>
<tr>
<td>GB656R</td>
<td>24</td>
</tr>
<tr>
<td>GB660R</td>
<td>24</td>
</tr>
<tr>
<td>GB673R</td>
<td>64</td>
</tr>
<tr>
<td>GB674R</td>
<td>64</td>
</tr>
<tr>
<td>GB680R</td>
<td>60</td>
</tr>
<tr>
<td>GB688R</td>
<td>60</td>
</tr>
<tr>
<td>GB689R</td>
<td>60</td>
</tr>
<tr>
<td>GB690R</td>
<td>60</td>
</tr>
<tr>
<td>GB699R</td>
<td>59</td>
</tr>
<tr>
<td>GB714R</td>
<td>31</td>
</tr>
<tr>
<td>GB714R</td>
<td>31</td>
</tr>
<tr>
<td>GB742R</td>
<td>31</td>
</tr>
<tr>
<td>GB743R</td>
<td>32</td>
</tr>
<tr>
<td>GB745R</td>
<td>32</td>
</tr>
<tr>
<td>GB746R</td>
<td>31</td>
</tr>
<tr>
<td>GB747R</td>
<td>31</td>
</tr>
<tr>
<td>GB751R</td>
<td>28</td>
</tr>
<tr>
<td>GB752R</td>
<td>28</td>
</tr>
<tr>
<td>GB753R</td>
<td>28</td>
</tr>
<tr>
<td>GB756R</td>
<td>29</td>
</tr>
<tr>
<td>GB757R</td>
<td>29</td>
</tr>
<tr>
<td>GB758R</td>
<td>29</td>
</tr>
<tr>
<td>GB771R</td>
<td>30</td>
</tr>
<tr>
<td>GB772R</td>
<td>30</td>
</tr>
<tr>
<td>GB773R</td>
<td>30</td>
</tr>
<tr>
<td>GB786</td>
<td>38</td>
</tr>
<tr>
<td>GB800</td>
<td>56</td>
</tr>
<tr>
<td>GB800810</td>
<td>56</td>
</tr>
<tr>
<td>GB800820</td>
<td>56</td>
</tr>
<tr>
<td>GB800830</td>
<td>56</td>
</tr>
<tr>
<td>GD305</td>
<td>37</td>
</tr>
</tbody>
</table>
## Index by reference numbers

<table>
<thead>
<tr>
<th>Reference Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD307</td>
<td>37</td>
</tr>
<tr>
<td>GD372206</td>
<td>52</td>
</tr>
<tr>
<td>GD412804</td>
<td>42</td>
</tr>
<tr>
<td>GD416M</td>
<td>42</td>
</tr>
<tr>
<td>GD421</td>
<td>42</td>
</tr>
<tr>
<td>GD450M</td>
<td>34</td>
</tr>
<tr>
<td>GD451M</td>
<td>34</td>
</tr>
<tr>
<td>GD455M</td>
<td>35</td>
</tr>
<tr>
<td>GD456M</td>
<td>35</td>
</tr>
<tr>
<td>GD457M</td>
<td>35</td>
</tr>
<tr>
<td>GD665</td>
<td>13</td>
</tr>
<tr>
<td>GD668</td>
<td>9</td>
</tr>
<tr>
<td>GD670</td>
<td>9</td>
</tr>
<tr>
<td>GD671</td>
<td>9,13</td>
</tr>
<tr>
<td>GD672</td>
<td>9,13</td>
</tr>
<tr>
<td>GD673</td>
<td>9,13</td>
</tr>
<tr>
<td>GD674</td>
<td>10,14</td>
</tr>
<tr>
<td>GD675</td>
<td>10</td>
</tr>
<tr>
<td>GD676</td>
<td>9</td>
</tr>
<tr>
<td>GD678</td>
<td>10,14</td>
</tr>
<tr>
<td>GD681</td>
<td>10,13</td>
</tr>
<tr>
<td>GD682</td>
<td>11,13</td>
</tr>
<tr>
<td>GD684</td>
<td>10,14</td>
</tr>
<tr>
<td>GD685</td>
<td>10</td>
</tr>
<tr>
<td>TE472</td>
<td>52</td>
</tr>
<tr>
<td>TE730</td>
<td>43</td>
</tr>
<tr>
<td>TE734</td>
<td>43</td>
</tr>
<tr>
<td>TE735</td>
<td>43</td>
</tr>
<tr>
<td>TE780</td>
<td>43</td>
</tr>
<tr>
<td>XF457R</td>
<td>51</td>
</tr>
</tbody>
</table>
## Signs and symbols

<table>
<thead>
<tr>
<th>Index/Signs</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Article code Eccos® fixation</td>
</tr>
<tr>
<td></td>
<td>Forward / reverse drive</td>
</tr>
<tr>
<td></td>
<td>Forward drive</td>
</tr>
<tr>
<td></td>
<td>Oscillation frequency</td>
</tr>
<tr>
<td></td>
<td>Oscillation angle</td>
</tr>
<tr>
<td></td>
<td>Stroke</td>
</tr>
<tr>
<td></td>
<td>Cannulation</td>
</tr>
<tr>
<td></td>
<td>Cable length</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
</tr>
<tr>
<td></td>
<td>Sterile</td>
</tr>
<tr>
<td></td>
<td>Single use</td>
</tr>
<tr>
<td></td>
<td>Latex free</td>
</tr>
<tr>
<td></td>
<td>Packaging Unit</td>
</tr>
<tr>
<td></td>
<td>Required height of tray</td>
</tr>
<tr>
<td></td>
<td>Suitable handpiece-line</td>
</tr>
</tbody>
</table>