## Aesculap® microspeed uni

Get the speed you need



Aesculap Power Systems



## Relax – the power is in your hand.



## Get the speed you need.



### Small - powerful - inspiring

This completely innovative high speed motor from Aesculap sets a milestone in the field of electric motor systems.

Small - but as powerful as its larger counterparts. The microspeed uni XS motor shows its true greatness in clinical use. Thanks to its new patented motor technology, cutting operations can be performed at a constant power and a speed of 80,000 rpm. The microspeed uni XS motor thus performs high-torque skull perforation as effortlessly as it does burring procedures to the vertebral column.

Combined with the slimline, ergonomic Hi-Line XS handpieces and the Hi-Line XS precision tools, the compact microspeed uni XS high speed motor allows for great visibility of the operation site, even in deep and very small accesses.

You will undoubtedly be impressed by this compact power pack.

## Relax – the power is in your hand.

## The control unit – High tech for intuitive and easy operation

- Touch Screen with clear, self-explaining symbols and intuitive user dialog for easy operation
- Customizable settings: Acceleration and stopping characteristics for individual motors, oscillation angle and much more can be adapted to your individual preference
- The versatile control unit combined with the microspeed uni motors and handpieces designed for specific indications makes it a preferable system for
  - Neuro
  - Neurotology
  - Spine
  - Small bone
  - Arthroscopy
- Two motor connection sockets for effortless switching between the motors
- Integrated irrigation pump allows precise adjustments of the pump flow







**GD668** 

GD671

#### The foot controls

Their high-quality finish and resistance against fluids ensure a long lifetime for our foot control switches. Two options of foot switches are available – one pedal or two pedals.



# GD672 GD673

#### The motor cables

The motor cables are available either with hand control or for use with our foot control pedals.

### The motors

### Specialized motors for special requirements

The eight microspeed uni motors have been designed especially for the indication specific requirements. Combine them with its three specialized handpiece ranges, Hi-Line XS, micro-Line, mini-Line and you get the system according to your wishes.

#### Unrestricted cleanability

The high-grade titanium motors and motor cables can be safely processed with alkaline cleaning agents. With Eccos, the ingenious storage and cleaning system, they can be washed simply and practically in the washing machine. For more information please refer to page 24.

### High quality material

State-of-the art manufacturing technology, years of experience in the field surgical motors, and the application of high quality material such as titanium make a product of value and quality.

## microspeed uni – for neuro, neurotology and spine

## Precise interventions require instruments that are especially adapted to the task

In order to perform high-precision neuro, neurotological and spinal procedures, surgical instruments that do not impair the tactile sense are of enormous importance. Moreover, new, minimally invasive access techniques increasingly require the use of miniaturized instruments for the purpose of enhancing visibility of the operating site.

During the development of our motor systems, the focus is therefore always on a design which is adapted to the latest access techniques and the most recent findings in ergonomics.





### microspeed uni XS high speed motor GD675

- Small and light high speed motor with a speed range of 10,000 80,000 rpm
- Constant power through special motor actuation
- Extremely quiet
- Acceleration and stopping characteristics can be adjusted to individual requirements
- Unrestricted motor guidance thanks to particularly thin and flexible motor cable
- Easy handling of the eXtra Slim Hi-Line XS handpieces
- Smooth-running and vibration-free
- Compatible with all Hi-Line XS handpieces





### microspeed uni high speed motor GD676

- Compatible with all Hi-Line and Hi-Line XS handpieces
- Can be combined with motor cables with hand control or with foot control pedals
- Speed range: 10,000 80,000 rpm
- Constant power through special motor actuation
- Acceleration and stopping characteristics can be adjusted to individual requirements

## **Hi-Line XS Handpieces**

Craniotome and multifunction handpiece



### Burrs Twin-Cut ball burrs Diamond burrs coarse extra coarse Ø 5.0 Ø 6.0 Ø 4.0 Ø 3.1 Ø 5.0 Ø 6.0 Ø 5.0 GE396R GE397R GE394R GE398R GE399R GE386SU GE387SU 2 Twist drills Pin cutter Ø 1.1 Ø 1.2 Ø 1.0 GE390R GE391R GE389R GE395R GE392R Craniotome cutters spiral straight GE420R GE429SU 2 II GE520R GE529SU 2 Steerable Ш dura guards **GB746R GB747R GB748R** Ш GE620R GE629SU <sup>®</sup>

## Hi-Line XS Handpieces

### Standard handpieces



Ш

GB753R

П

GB752R

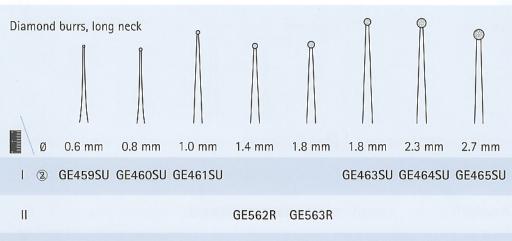
GB751R

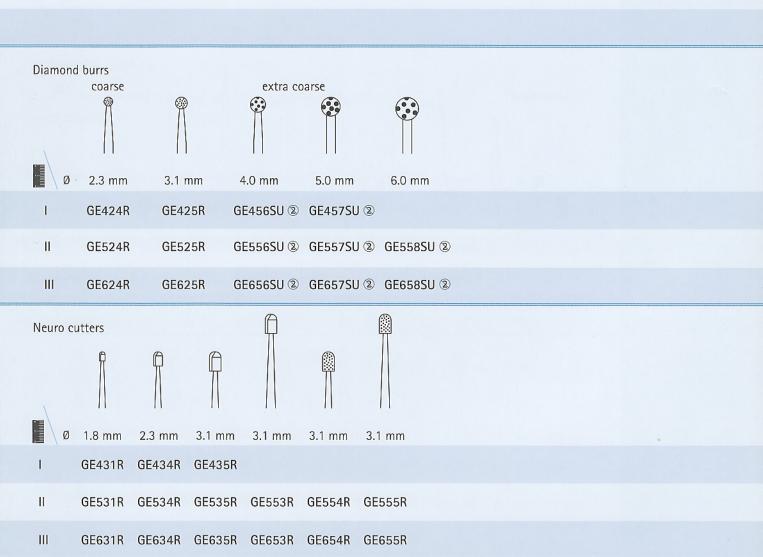
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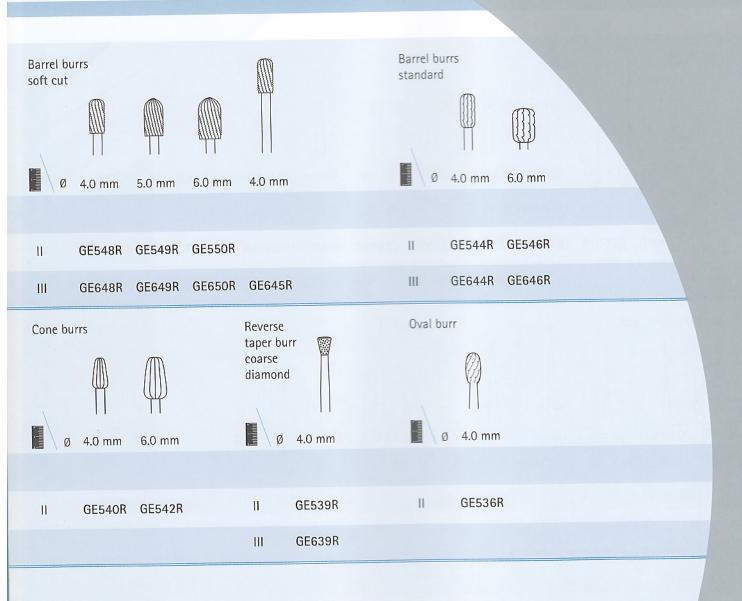
GB758R

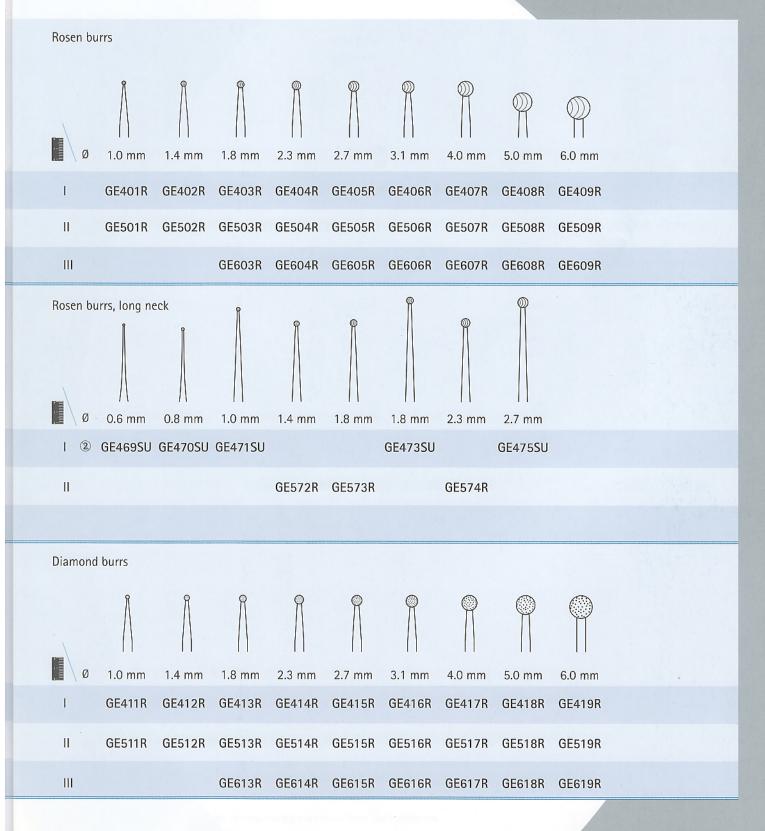
GB757R

GB756R

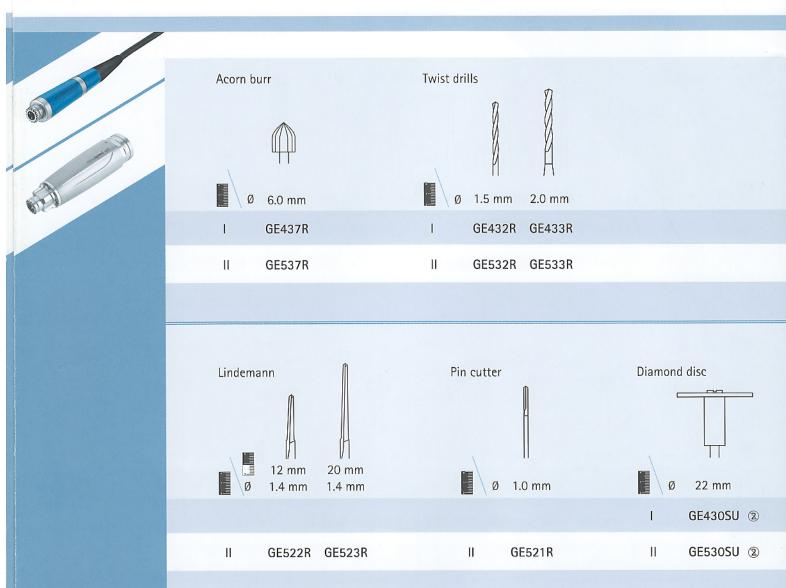








## Hi-Line XS Handpieces



## li-Line XS Handpieces

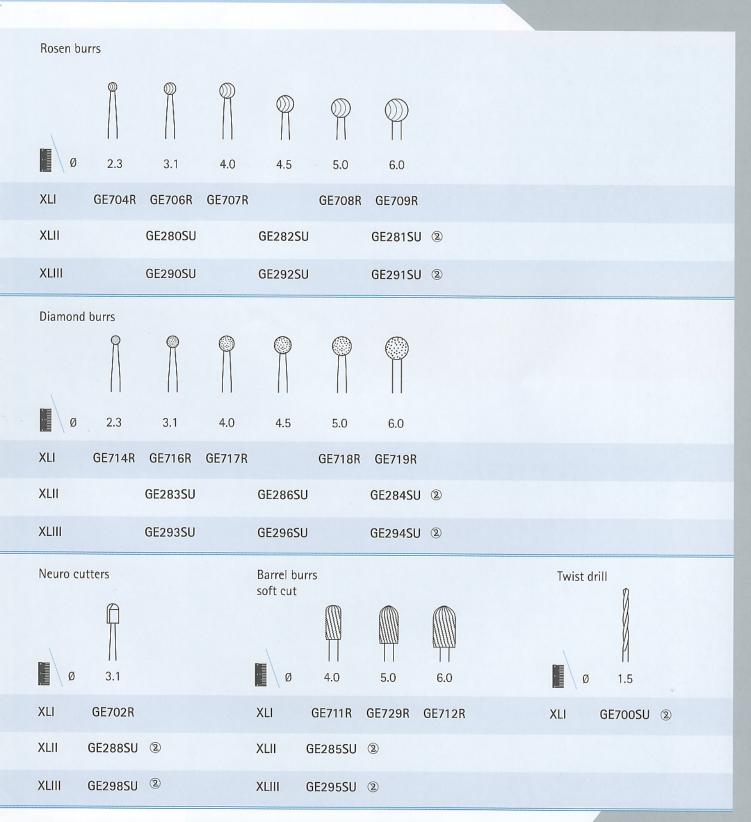
### Tungsten Carbide

	Rosen burrs				Neuro	cutter	Side ras	p burr	
7	Ø 3.1 mm	4.0 mm	5.0 mm			Ø 3.1 mm	Ø	2.35 mm	
	l GE406TC-SU	GE407TC-SU	GE408TC-SU	2	1	GE435TC-SU ②			
	II	GE507TC-SU	GE508TC-SU	2	11	GE535TC-SU ®	II	GE528SU ②	
	III	GE607TC-SU	GE608TC-SU	2	III	GE635TC-SU ②	III	GE628SU ②	

## Hi-Line XS Handpieces

Extra long handpieces





## microspeed uni – for neuro, neurotology and spine

### The high speed system with low speed value added

The range of applications for the microspeed uni system extends beyond advanced high speed burring. Complete your system, for example with the new perforator driver, the universal drill handpieces or the soft-tissue sparing micro-saws.



### microspeed uni perforator driver GD685

- Extremely short design through integration of the motor in the handpiece!
- The short design and the proximity of the grip surface to the skull enable a close control via the motor during the skull perforation
- Powerful torque
- Constant power through special motor actuation
- Absence of rotating parts ensures safe operation
- Speed range: 800 1,200 rpm
- All common safety perforators with Hudson shanks can be used
- Can be combined with motor cables with hand control or with foot control pedals

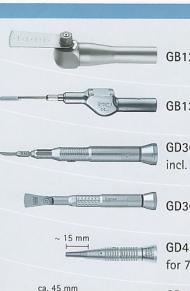
### Low speed - micro-Line





### microspeed uni low speed motor GD678

- Low speed motor for all microsurgical sawing and drilling operations
- Speed range: 1,000 30,000 rpm
- Can be combined with motor cables with hand control or with foot control pedals
- Wide choice of micro-Line handpieces available
- Constant power through special motor actuation
- Acceleration and stopping characteristics can be adjusted to individual requirements



GB129 micro-Line sagittal saw

GB130R micro-Line reciprocating saw

GD305 micro-Line reciprocating saw, incl. saw blade GD320R

GD307 micro-Line sagittal saw

GD450M micro-Line handpiece 1:1, for 70 mm burrs, coding: 1 blue ring

GD451M micro-Line handpiece 1:1, for 95 mm burrs, coding: 1 blue ring

GD455M micro-Line handpiece 1:2, for 70 mm burrs, coding: 1 red ring

**GD456M** micro-Line handpiece 1:2, for 95 mm burrs, coding: 1 red ring

GD457M micro-Line handpiece 1:2, for 125 mm burrs, coding: 1 red ring

GB111 micro-Line handpiece 4:1, coding: 1 green ring

GB119 micro-Line angle piece head 2:1, coding: 1 green dot, for dental shank

#### **Perforators**



GB300R Cranial perforator with Hudson shank, Ø 6/9 mm



GB302R Cranial perforator with Hudson shank, Ø 9/12 mm



GB304R Cranial perforator with Hudson shank, Ø 12/15 mm

For information on the respective tools, please refer to our Burrs & Blades catalogue 017599.

## microspeed uni – for small bone surgery and arthroscopy

## Ergonomic, lightweight design meets endless power

These two low speed motors, with 16,000 rpm are ideal for the requirements of small bone surgery. Combine these motors with a wide choice of mini-Line handpieces. Sawing, drilling, burring, wiring – the mini-Line has it all!



### microspeed uni pistol GD684

- Low speed pistol for arthroscopy and small bone surgery
- Compatible with all mini-Line handpieces
- Lightweight and ergonomic shape for fatigue-free and precise operating
- Oscillation- and tapping mode for a safe and accurate preparation of screw holes
- Acceleration and stopping characteristics can be adjusted to individual requirements

For information on the respective tools, please refer to our Burrs & Blades catalogue 017599.

### Low speed - mini-Line





### microspeed uni mini motor GD674

- Pencil-shaped microspeed uni motor for small bone surgery
- Compatible with all mini-Line handpieces
- Can be operated either with the motor cable with hand control GD673 or with the motor cable for foot control GD672
- Acceleration and stopping characteristics can be adjusted to individual requirements



GB376R mini-Line burr attachment, 1:2, for tools with 2.35 mm shank



GB382R mini-Line drill attachment, 16:1, for tools with AO shank



GB383R mini-Line drill attachment, 16:1, Jacobs chuck Ø 0 - 4.0 mm



GB377R mini-Line drill attachment, 36:1, Jacobs chuck Ø 0 - 6.5 mm



**GB389R** mini-Line drill attachment, 36:1, for tools with hexagonal shank



GB373R mini-Line angled drill attachment, 8:1, for tools with dental shank



GB374R mini-Line angled K-wire chuck, 17:1, Ø 0.6 - 1.6 mm, for use with microspeed uni mini motor GD674



GB398R mini-Line K-wire chuck 16:1, Ø 0.6 - 2.5 mm, for use with microspeed uni pistol GD684



GB390R mini-Line sagittal saw attachment



GB391R mini-Line reciprocating saw attachment



GB392R mini-Line transversal saw attachment

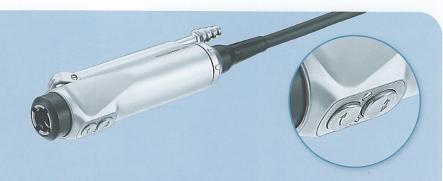
## microspeed uni – for small bone surgery and arthroscopy

## Arthroscopic procedures require reliable, ergonomically sophisticated shaver handpieces

The microspeed uni shaver handpieces excel in particular thanks to their compact, lightweight design. Even extremely long operations can thus be performed comfortably and without fatigue. Modern production technologies and the use of top-grade materials are characteristic of these first-class quality products.

Combined with our extensive range of shaver blades and burrs, the microspeed uni system is one of the most sophisticated and advanced shaver systems available.

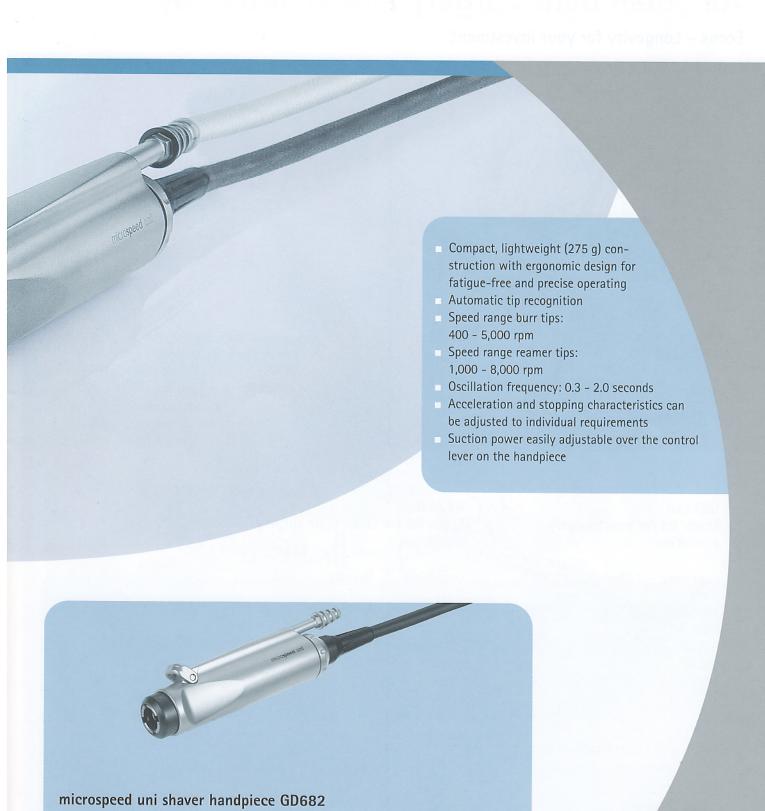




### microspeed uni shaver handpiece with hand control GD681

 The ergonomic two button control design allows easy operation of oscillation, right and left mode with fingertips

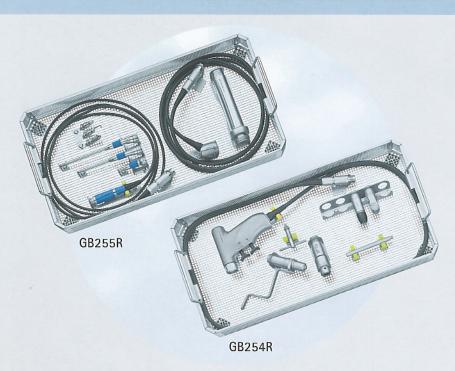
For information on the respective tools, please refer to our Burrs & Blades catalogue 017599.



For use with foot control pedal GD671

## microspeed uni - Processing and Maintenance

Eccos - Longevity for your investment



Reprocessing motors and accessories has never been as simple and convenient as this.

The system remains in specially designed Eccos fixations during the entire application and reprocessing cycle. The complete, loaded Eccos trays can be mechanically cleaned and autoclaved.

GB255R			
Eccos set for	neurosurgery		

€ 50 mm

comprising:

1
1
1
1
1
1

### GB254R

Eccos set for small bone surgery

50 mm

comprising:	Quantity	
JF212	1	
GB579R	1	
GB673R	1	
GB674R	2	
GB690R	3	

€ 50 mm

This symbol indicates the respective tray height.

Additional Eccos fixations available

Quantity

GB572R Eccos fixation for GB300R-GB308R



GB613R Eccos fixation for 13 Hi-Line XS burrs



For more informations on the Eccos fixations, please refer to our Burrs & Blades catalogue 017599.

### Maintenance concept – Sterilit oil spray



### GB600 Sterilit Power Systems Oil Spray

300 ml, 👸 6

Lubricating the microspeed uni system is a simple affair. The motor and handpieces are sprayed with the Sterilit oil spray before each sterilisation cycle.

Complete lubrication of the motor and handpieces, making permanent intraoperative lubrication unnecessary.





GB600870 Spray Adapter microspeed uni XS



### GB600820 Spray Adapter

microspeed uni, microLAN, miniLAN, Hi-Line, Hi-Line XS, Hi-Line XXS, HiLAN, HiLAN XS



### GB600810 Spray Adapter

for micro-Line handpieces



### ...and Accessories

### ...and Accessories



### Power cord

TE780 Power cord for Europe; 1.5 m TE730 Power cord for Europe; 5 m TE735 Power cord for USA, Canada, Japan; 5 m TE734 Power cord for UK; 5 m

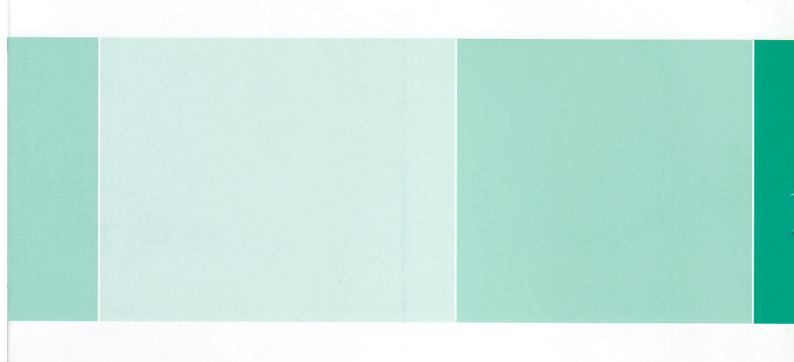




### GA391SU Tubing set

complete with adaptor for spray nozzle, fixation clips and short spike; for single use;  $\stackrel{\sim}{\square}$  10





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