



SpeedSurg

Micro Drill- and Shaver System



Quality you can rely on



SpeedSurg – maximum precision and
versatility in ENT surgery

SpeedSurg

Our motorsystem for **HighSpeed** and **LowSpeed applications** allows highest precision and versatility in ENT surgery.

With its safety features **SecureLock** and **Quick-Release**, this system sets new standards in terms of security and user comfort.

One **console** for the entire **High-** and **LowSpeed** range. Enjoy the convenience of operating at a HighSpeed of up to 80,000 rpm or a LowSpeed of up to 40,000 rpm, with the same console.



Versatile user options and two motor connections for maximum comfort

Thanks to its diverse application functions, for driving an electronic motor for drilling and sawing on bones, as well as for shaving treatment in the ENT area or head and neck surgery the SpeedSurg control unit can handle the entire range of ENT applications.

The system automatically detects the connected motors and controls the appropriate modes.

A built-in warning function notifies the operator about the start of the HighSpeed mode, the running direction and most possible system failures.



- 300-80,000 rpm, continuously
- Integrated warning function
- 8 roller pump

78CU80-EN

HighSpeed Electronic Motor for Micro Drill System

- Compact low-vibration motor with up to 80,000 rpm
- Low heat generation
- Sturdy Design
- Light weight
- Compatible with all SPIGGLE & THEIS HighSpeed handpieces

78MM08003



HighSpeed and CI-HighSpeed Drill handpieces

Supreme control and usability in everyday use

Thanks to their optimized ergonomics and the integrated **SecureLock** and **QuickRelease** systems, the SPIGGLE & THEIS handpieces guarantee optimal control and maximum user comfort.



SecureLock

Acoustic and tactile feedback confirms the correct and safe attachment of the handpiece.

QuickRelease

For easy and safe release of rotating instruments. Thanks to the special drill shank and the QuickRelease function, fast drill replacement during surgery becomes child's play.

Shaft coupling



guarantees secure and easy locking of the rotary instrument.

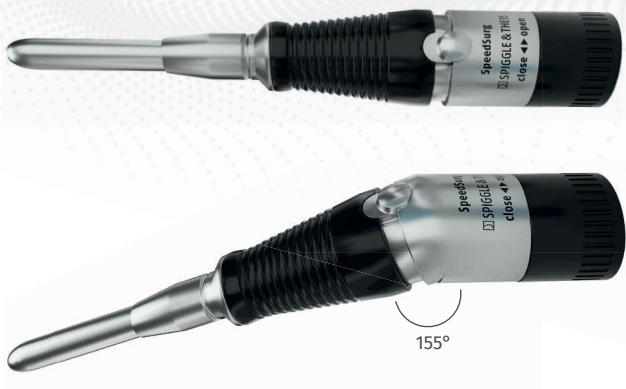


HighSpeed and CI-HighSpeed Drill handpieces

- Details:
- Low-vibration
 - Integrated safety mechanisms **SecureLock** and **QuickRelease**
 - Up to 80,000 rpm

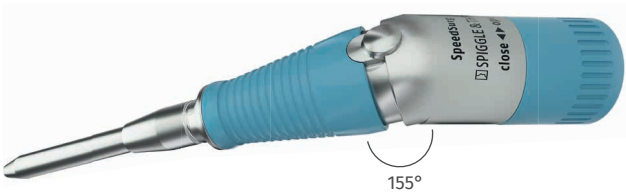


Handpiece for rotary instruments, black



Art.-No.	Length (mm)	Form	Color
78HG1070	70	straight	black
78HW1070	70	angled	black

Cochlear Implant (CI)-Handpiece for rotary instruments, blue



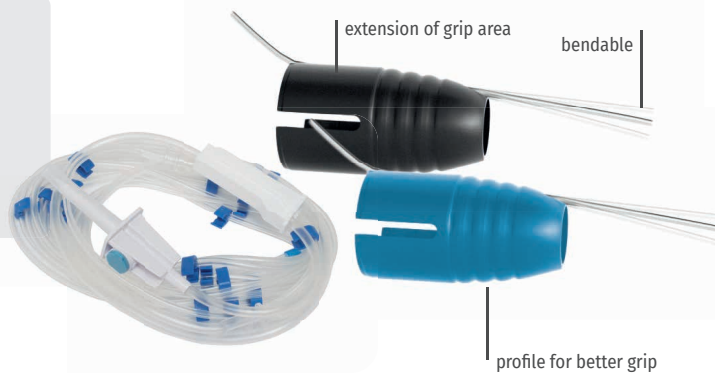
- special CI-handpiece and burs available
- longer, tapered tip for a better sight
- superb concentricity due to advanced bearing design

Art.-No.	Length (mm)	Form	Color
78CI1080	75	angled	blue

with cooling tube for HighSpeed and CI-Highspeed, 10 pieces/box

for HighSpeed Drill Handpiece, **black**,
suitable for 78HG1070 and 78HW1070
and
for CI HighSpeed Drill Handpiece,
blue, suitable for 78CI1080

78ZS09



with cooling tube for HighSpeed, black, 10 pieces/box

for HighSpeed Drill Handpiece, **black**,
suitable for 78HG1070 and 78HW1070

78ZS06



with cooling tube for CI-HighSpeed, blue, 10 pieces/box

for CI HighSpeed Drill Handpiece,
blue, suitable for 78CI1080

78KSCI



without cooling tube, 10 pieces/box

- Pre-installed clamps on the hose set
- Sterile
- Single-use
- 3300 mm

78ZS07



The spearhead of the SpeedSurg system represent our Rotary Instruments.

Skilled workmanship and inventive design are the driving forces of our rotary instruments. The design guarantees low-vibration drilling and milling work with the highest precision. Different geometries and different diameters allow excellent operative results.

The distinctive cutting geometry of the A-toothing concept makes it unique in its class and enables superior nontraumatic, fast drilling and milling.

Color coding

For a fast and secure assignment

- HighSpeed = **black**
- CI-HighSpeed = **blue**



All our rotating instruments convince with low Vibration and high concentricity

Stand for rotating instruments, HighSpeed



- For all offered bur lengths available
- Stainless steel
- For 16 burs
- Sterilizable

BS7800116

for **HighSpeed** applications, **sterile, reusable**, length I, 1 piece/box



- Drilling heads with asymmetrical cutting design

Carbide

Art.-No.	Blades	Ø (mm)	Length (mm)
HST760605X	6	0.5	76.5
HST760608X	6	0.8	76.5
HST760610X	6	1.0	76.5
HST760614X	6	1.4	76.5
HST760618X	6	1.8	76.5
HST760623X	6	2.3	76.5
HST740831X	8	3.1	74.5
HST741040X	10	4.0	74.5
HST741250X	12	5.0	74.5
HST741460X	14	6.0	74.5



- Atraumatic and fast drilling and milling

Steel, A-toothed

Art.-No.	Blades	Ø (mm)	Length (mm)
HSSMA7431X	10	3.1	74.5
HSSMA7440X	12	4.0	74.5
HSSMA7450X	14	5.0	74.5
HSSMA7460X	16	6.0	74.5



- Dense and uniform diamond distribution for exact grinding behavior

Diamond, medium grain

Art.-No.	Ø (mm)	Length (mm)
HSDMD7604X	0.4	76.5
HSDMD7606X	0.6	76.5
HSDMD7608X	0.8	76.5
HSDMD7610X	1.0	76.5
HSDMD7614X	1.4	76.5
HSDMD7618X	1.8	76.5
HSDMD7623X	2.3	76.5
HSDMD7431X	3.1	74.5
HSDMD7440X	4.0	74.5
HSDMD7450X	5.0	74.5
HSDMD7460X	6.0	74.5



- Super rough diamond for bone removal and grinding

Diamond, super coarse grain

Art.-No.	Ø (mm)	Length (mm)
HSDR27623X	2.3	76.5
HSDR27431X	3.1	74.5
HSDR27440X	4.0	74.5
HSDR27450X	5.0	74.5
HSDR27460X	6.0	74.5

Length I: head diameter up to 3.0 mm - overall length 76.5 mm / head diameter from 3.0 mm - overall length 74.5 mm



for **CI-HighSpeed** applications, **sterile, reusable**, length CI + CI93, 1 piece/box



- Drilling heads with asymmetrical cutting design



- Atraumatic and fast drilling and milling



- Bottleneck
- Dense and uniform diamond distribution for exact grinding behavior



- Super rough diamond for bone removal and grinding



- Cylinder

Carbide

Art.-No.	Blades	Ø (mm)	Length(mm)
HSTCI760605X	6	0.5	79.5
HSTCI760608X	6	0.8	79.5
HSTCI760610X	6	1.0	79.5
HSTCI760614X	6	1.4	79.5
HSTCI760618X	6	1.8	79.5
HSTCI760623X	6	2.3	79.5
HSTCI1431X	8	3.1	79.5
HSTCI1440X	10	4.0	79.5
HSTCI1450X	12	5.0	79.5
HSTCI1460X	14	6.0	79.5

Steel, A-toothing

Art.-No.	Blades	Ø (mm)	Length (mm)
HSSMACI23X	10	2.3	93.0
HSSMACI31X	10	3.1	79.5
HSSMACI40X	12	4.0	79.5
HSSMACI50X	14	5.0	79.5
HSSMACI60X	16	6.0	79.5

Diamond, medium grain

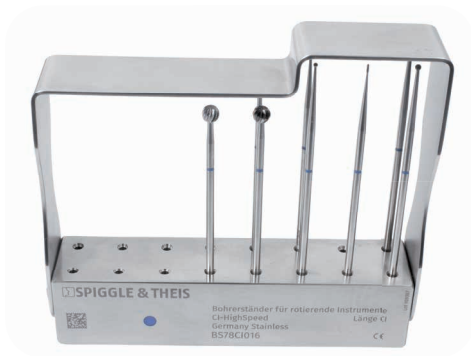
Art.-No.	Ø (mm)	Length (mm)
HSDMDCI7604X	0.4	93.0
HSDMDCI06X	0.6	93.0
HSDMDCI08X	0.8	93.0
HSDMDCI12X	1.2	93.0
HSDMDCI7614X	1.4	93.0
HSDMDCI17X	1.7	93.0
HSDMDCI23X	2.3	93.0
HSDMDCI27X	2.7	79.5
HSDMDCI31X	3.1	79.5
HSDMDCI40X	4.0	79.5
HSDMDCI7450X	5.0	79.5
HSDMDCI7460X	6.0	79.5

Diamond, super coarse grain

Art.-No.	Ø (mm)	Length (mm)
HSDRCI27623X	2.3	93.0
HSDSGCI31X	3.1	79.5
HSDSGCI40X	4.0	79.5
HSDSGCI50X	5.0	79.5
HSDRCI27460X	6.0	79.5

HSDMZCI06X	0.6	93.0
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Stand for rotating instruments, CI-HighSpeed



- Length CI + CI93
- Stainless steel
- For 16 burs
- Sterilizable

BS78CI016

Customized lettering possible on request.



Control unit in **LowSpeed** applications



78CU80-EN

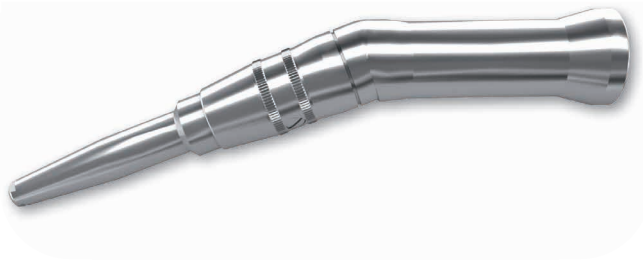
Whether you work with the new **SpeedSurg** or with the DT55, we offer you the ideal solution for both systems. Thanks to compatibility, you can use your proven handpieces and accessories on both systems.

LowSpeed Electronic motor for drilling, sawing and shaving

- For use with SpeedSurg control unit **78CU80-EN** or **DT55** (previous system)
- Sturdy Design
- Compact, low-vibration motor with up to 40,000 rpm
- Compatible with SPIGGLE & THEIS LowSpeed handpieces

77MM010





LowSpeed drilling handpieces, angled*

- Machine cleaning possible

Art.-No.	Bur (mm)
77HW001	70
77HW002	95
77HW003	125

* cooling tube included



LowSpeed drilling handpieces, straight*

- Machine cleaning possible

Art.-No.	Bur (mm)
77HG001	44,5
77HG002	70,0

* cooling tube included



Spare parts - cooling tubes for LowSpeed handpieces, 1 piece

- Short spray nozzle
- Constant flow

77ZZS03 for handpiece 77HG002 and 77HW001



- Long spray nozzle
- Droplet irrigation

77ZZS06 for handpiece 77HG002 and 77HW001



- Long spray nozzle
- Droplet irrigation
- Flexible

77ZZS06-B

Irrigation set without cooling tubes, 10 pieces/box

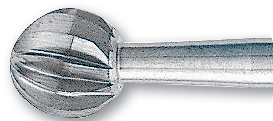


- pre-installed fixing clips on hose set
- sterile
- single use
- 3300 mm

78ZS07



for **LowSpeed** applications, **non-sterile, reusable**, length 70 mm, 1 piece/box



• Drilling heads with asymmetrical cutting design

Carbide

Art.-No.	Blades	Ø (mm)	Length (mm)
CR070010506	6	0.5	70
CR070010806	6	0.8	70
CR070011006	6	1.0	70
CR070011206	6	1.2	70
CR070011406	6	1.4	70
CR070011606	6	1.6	70
CR070011806	6	1.8	70
CR070012106	6	2.1	70
CR070012306	6	2.3	70
CR070012708	8	2.7	70
CR070013108	8	3.1	70
CR070013508	8	3.5	70
CR070014010	10	4.0	70
CR070014510	10	4.5	70
CR070015008	8	5.0	70
CR070015012	12	5.0	70
CR070016008	8	6.0	70
CR070016014	14	6.0	70
CR070016508	8	6.5	70
CR070017016	16	7.0	70



• Drilling heads with asymmetrical cutting design

Steel, A-toothed

Art.-No.	Blades	Ø (mm)	Length (mm)
CR070221010	10	1.0	70
CR070221410	10	1.4	70
CR070222310	10	2.3	70
CR070223110	10	3.1	70
CR070223510	10	3.5	70
CR070224012	12	4.0	70
CR070225014	14	5.0	70
CR070226016	16	6.0	70



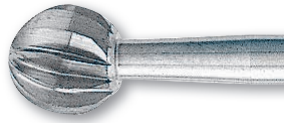
• Drilling heads with asymmetrical cutting design

Steel, Cross-Cut

Art.-No.	Blades	Ø (mm)	Length (mm)
CR070021410	10	1.4	70
CR070022312	12	2.3	70
CR070023112	12	3.1	70
CR070024014	14	4.0	70
CR070025014	14	5.0	70
CR070026016	16	6.0	70

Further **non-sterile** burs of lengths 95 mm and 125 mm on request

for **LowSpeed** applications, **non-sterile, reusable**, length 70 mm, 1 piece/box



Steel

Art.-No.	Blades	Ø (mm)	Length (mm)
SR070010606	6	0.6	70
SR070010806	6	0.8	70
SR070011006	6	1.0	70
SR070011408	8	1.4	70
SR070011808	8	1.8	70
SR070012308	8	2.3	70
SR070012710	10	2.7	70
SR070013106	6	3.1	70
SR070013110	10	3.1	70
SR070013506	6	3.5	70
SR070013512	12	3.5	70
SR070014012	12	4.0	70
SR070014512	12	4.5	70
SR070015008	8	5.0	70
SR070015012	12	5.0	70
SR070016014	14	6.0	70
SR070017016	16	7.0	70



Steel, A-toothing

Art.-No.	Blades	Ø (mm)	Length (mm)
SR070222310	10	2.3	70
SR070223110	10	3.1	70
SR070223510	10	3.5	70
SR070224012	12	4.0	70
SR070225014	14	5.0	70
SR070226016	16	6.0	70

• Atraumatic and fast drilling and milling

Further **non-sterile** burs of lengths 95 mm and 125 mm on request



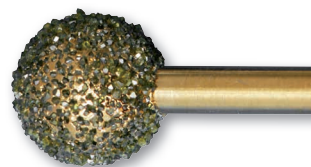
for **LowSpeed** applications, **non-sterile, reusable**, length 70 mm, 1 piece/box



- Dense and uniform diamond distribution for exact grinding behavior

Diamond, medium grain

Art.-No.	Ø (mm)	Length (mm)
DR070010691	0.6	70
DR070010791	0.7	70
DR070010891	0.8	70
DR070011091	1.0	70
DR070011291	1.2	70
DR070011491	1.4	70
DR070011691	1.6	70
DR070011891	1.8	70
DR070012191	2.1	70
DR070012391	2.3	70
DR070012591	2.5	70
DR070012791	2.7	70
DR070012991	2.9	70
DR070013191	3.1	70
DR070013591	3.5	70
DR070014091	4.0	70
DR070014591	4.5	70
DR070015091	5.0	70
DR070016091	6.0	70
DR070017091	7.0	70



- Super rough diamond for bone removal and grinding

Diamond, extra coarse grain

Art.-No.	Ø (mm)	Length (mm)
DR070012393	2.3	70
DR070012793	2.7	70
DR070013193	3.1	70
DR070013593	3.5	70
DR070014093	4.0	70
DR070014593	4.5	70
DR070015093	5.0	70
DR070016093	6.0	70
DR070017093	7.0	70



Diamond, medium grain, barrel

Art.-No.	Ø (mm)	Length (mm)
DR070132091	2.0	70

for **LowSpeed** applications, **non-sterile, reusable**, 1 piece/box



Carbide, egg shaped

Art.-No.	Blades	Ø (mm)	Länge (mm)
CR070074008	8	4.0	70
CR070075510	10	5.5	70



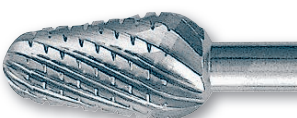
Carbide, Lindemann bone bur

Art.-No.	Blades	Ø (mm)	Länge (mm)
CR065051604	4	1.6	65
CR065052104	4	2.1	65



Steel, bud shaped

Art.-No.	Blades	Headlength	Ø (mm)	Length (mm)
SR070086014	14	11.0	6.0	70
SR070087016	16	12.5	7.0	70
SR070088016	16	14.0	8.0	70



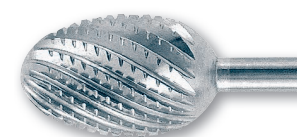
Steel, bud shaped, cross-cut

Art.-No.	Blades	Headlength	Ø (mm)	Length (mm)
SR070095012	12	9.5	5.0	70
SR070096014	14	11.0	6.0	70
SR070098016	16	14.0	8.0	70



Steel, cylindrical, cross-cut

Art.-No.	Blades	Headlength	Ø (mm)	Length (mm)
SR070126014	14	11.0	6.0	70



Steel, egg shaped, cross-cut

Art.-No.	Blades	Headlength	Ø (mm)	Length (mm)
SR070074010	10	9.5	4.0	70
SR070075012	12	10.0	5.0	70
SR070076014	14	11.0	6.0	70

Further **non-sterile** burs of lengths 95 mm and 125 mm on request



Stand for rotating instruments, LowSpeed



- For instruments with length 70 mm
- Stainless steel
- For 24 burs, also available for 16, 34 and 45 burs
- Sterilizable

16 burs **BS23507016**

24 burs **BS23507024**

34 burs **BS23507034**

45 burs **BS23507015-3**

Spike Cutter, straight



Art.-No.	ID Ø (mm)	WL (mm)	Angle
78SB130	3.4	105	0°
78SB230	4.2	105.1	0°

Spike Cutter, concave



Art.-No.	ID Ø (mm)	WL (mm)	Angle
78SB131-C	3.4	104.3	15°
78SB231-C	4.2	104.3	15°
78SB330-C	3.4	101.8	30°
78SB430-C	4.2	101.8	30°
78SB134-C	3.4	98.8	40°
78SB234-C	4.2	98.8	40°

Agg. Full Radius, straight

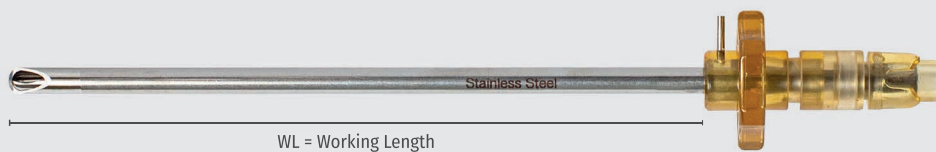


Art.-No.	ID Ø (mm)	WL (mm)	Angle
78SB100	3.4	105	0°
78SB200	4.2	105	0°

Agg. Full Radius, concave

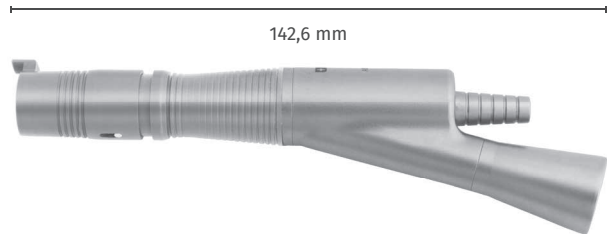


Art.-No.	ID Ø (mm)	WL (mm)	Angle
78SB315	3.4	104.3	15°
78SB415	4.2	104.3	15°
78SB331	3.4	101.8	30°
78SB430	4.2	101.8	30°
78SB340	3.4	98.8	40°
78SB440	4.2	98.8	40°



- Speed range in oscillating mode: 300 - 5000 U/min
- Oscillation period: 0.2 - 3.0 sec/cycle
- Speed range in continuous mode: 300 - 6000 rpm
- Max. torque at shaver blade: 12 Ncm

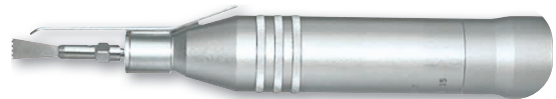
ENT Shaver Handpiece, angled



78SH00

- 15,000 rpm
- External cooling
- Machine cleaning possible

Handpiece for micro sagittal saw, 1 piece



77SP000 *

- 15,000 rpm
- External cooling
- Machine cleaning possible

Handpiece for oscillating micro saw, 1 piece



77SO000 *

- 2 mm stroke
- External cooling
- Machine cleaning possible

Handpiece for micro compass saw, 1 piece



77SS00 *

*Saw blades not included in delivery.

Accessories for Mirco Drill and Shaver System



Foot pedal Vario IPX8

- coolant regulation
- program selection
- motor controller

78FS01



Tripod for coolant

78ST45

Special Oilspray



00-108-005

78AH01

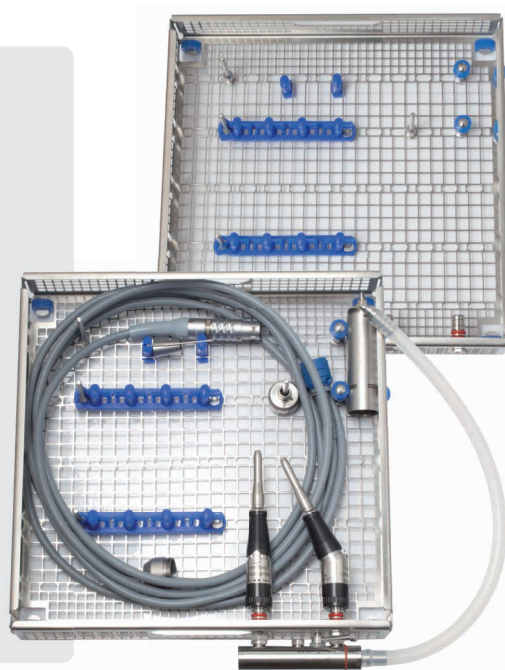
78AM01

- **Maintenance spray 00-108-005** for drill handpieces, electronic motors and instruments
- Nozzle **78AH01** for use of the Special Oil Spray at the HighSpeed and LowSpeed drilling handpiece
- Nozzle **78AM01** for use of the Special Oil Spray at the HighSpeed and LowSpeed electronic motor



System screen basket for drilling handpieces and electronic motors - compatible for validated cleaning and sterilization

- Multi-system basket 236 x 236 x 48 (43), large grid, buffering elements
- Multi-system cover 239 x 239 x 7, closure
- Hanger bracket, rotatable
- Stop pin
- 3-step stepped sleeve
- Universal fixation, cheese-head screw (standard)
- Flexible holding band, 2 x holder segment
- Plate 5 mm, Ø 10 mm, Ø 4 mm hole, blue
- Flat adapter nut
- Multiadapter with 1 x special thread on the outside and inside
- Sinking tube with 2 x plug-in adapter with seal, quick fixation, Plug connection and 1 threaded plug
- Cap adapter filter Ø 10 mm, standard filter, ring Ø 11.5 x 1 mm
- LL female tube attachment Ø 6.5 mm
- Tube Ø 5 mm (inner diameter), 30 cm



78SK00

SpeedSurg Set

- HighSpeed-motor
- SpeedSurg
- Foot pedal
- Tripod for coolant

78SS80-SET-EN



