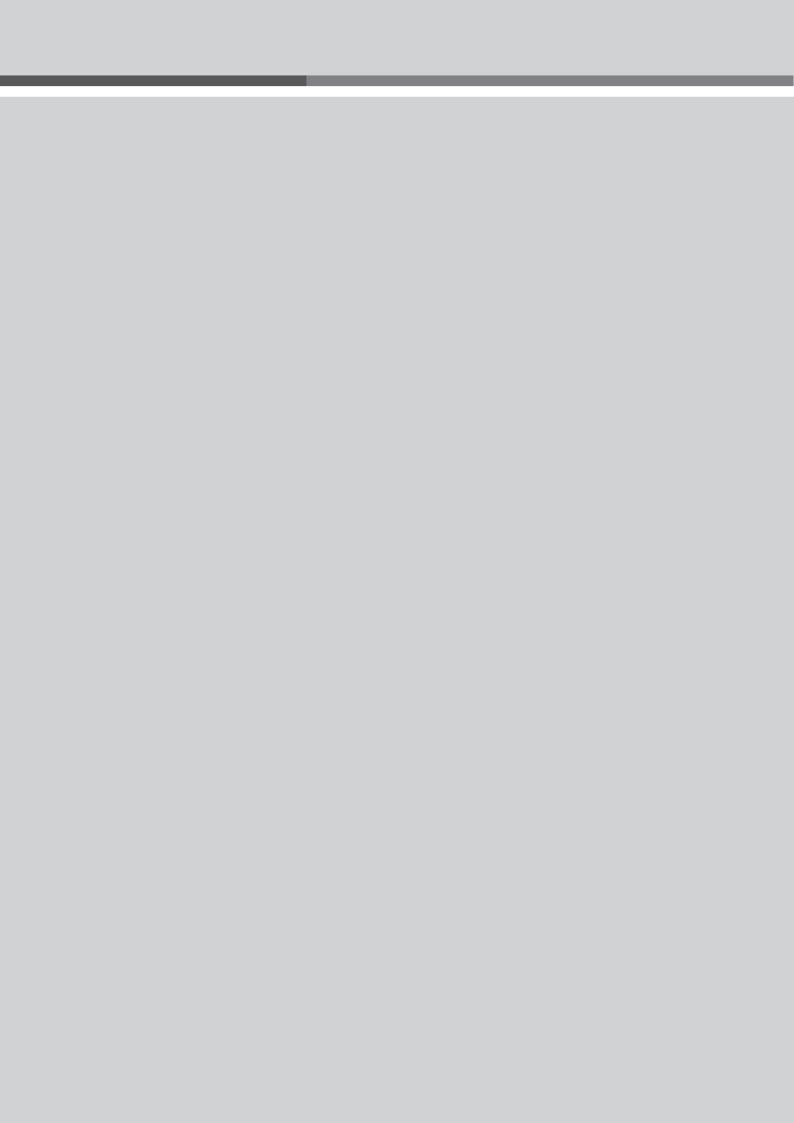
## ARTHROSCOPY



www.mgb-berlin.de





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# ABOUT ACCESS | Arthroscopy

#### HISTORY

For the past 30 years ACCESS Arthroscopy engineers have been designing and manufacturing handheld instruments for the arthroscopy market. Each of our engineers has exceptional knowledge of what is required in an arthroscopic handheld instrument. From the ergonomic handle to enhance surgeon comfort, to the unique 5.0 mm round punch for contouring the meniscus, ACCESS Arthroscopy instruments have benefited from experienced engineers who understand the particular needs of arthroscopic surgeons.

In case of failure in normal use determined to be due to defects in material and craftsmanship, you can return your ACCESS Arthroscopy instrument at any time for a repair or exchange.



#### QUALITY

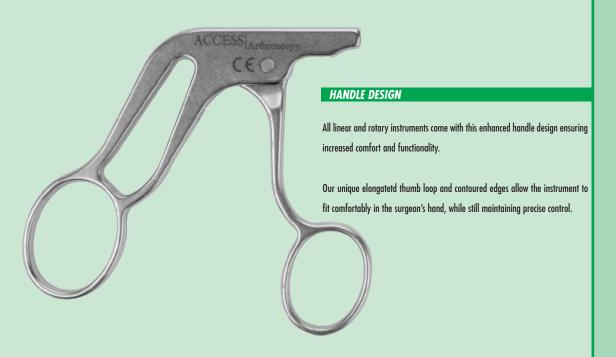
ACCESS Arthroscopy prides itself on providing surgeons with high quality, premium arthroscopy instruments. That is why ACCESS Arthroscopy manufactures all of their instruments from surgical grade 303 & 17-4PH Stainless Steel, to ensure that the surgeon receives a premium, durable instrument every time they use it.

ACCESS Arthroscopy ensures quality through our 100% final inspection process. We assure that all our punches and scissors are ready with a superior cut right out of the box through our inspection criteria. Each punch or scissors must cut a piece of leather 10 times without fraying or ripping the leather prior to being shipped out of our facility.

ACCESS Arthroscopy tests not only the strength and cutting ability of our products, but also the ability to clean and sterilize. ACCESS Arthroscopy has cleaning and sterilization validation reports for both the linear and rotary instruments. These independent third party scientific findings explain that if the instructions for use (IFU) are followed step by step then the instruments will be clean and sterilized. (Cleaning and Sterilization Reports are available upon request.)



### **DESIGN**





### **ACTUATION DESIGN**

ACCESS Arthroscopy features for all linear instruments a unique pinned actuation design.

A Single Pin Pivot design at the distal tip provides connection between the upper moving jaw and the lower stationary jaw.

The actuator configuration is based on a *Lug and Groove Pivot* design which provides connection between the upper moving jaw and the actuator rod.

This patented design platform is very reliable and minimizes the risk of small components being released into the joint.



### **UNIQUE FEATURES**

#### **Feature**



### **Description**

#### Flush-Port

■ ACCESS Arthroscopy conveniently located flush-port ensures proper cleaning of the inner lumens



#### **Infinite Active Passive Pressure Lock**

- ACCESS Arthroscopy Infinite Active Passive Pressure Lock is conveniently located and available on all arthroscopy graspers
- Allows the surgeon to precisely lock the jaws firmly at any angle
- Only active when surgeon chooses to activate locking
   mechanism



### Probe-/Curette-/Knife-/Gouge-Handle

- ACCESS Arthroscopy ergonomic rounded handle is designed to increase surgeon comfort and functionality
- A contoured handle design allows the instrument to fit comfortably in the surgeon's palm, while maintaining precise control and reducing tender spots on the hand
- Scalloped notches located at both ends of the handle allow the instrument to lay stationary on flat surfaces



#### Punch, 5.0 mm bite width

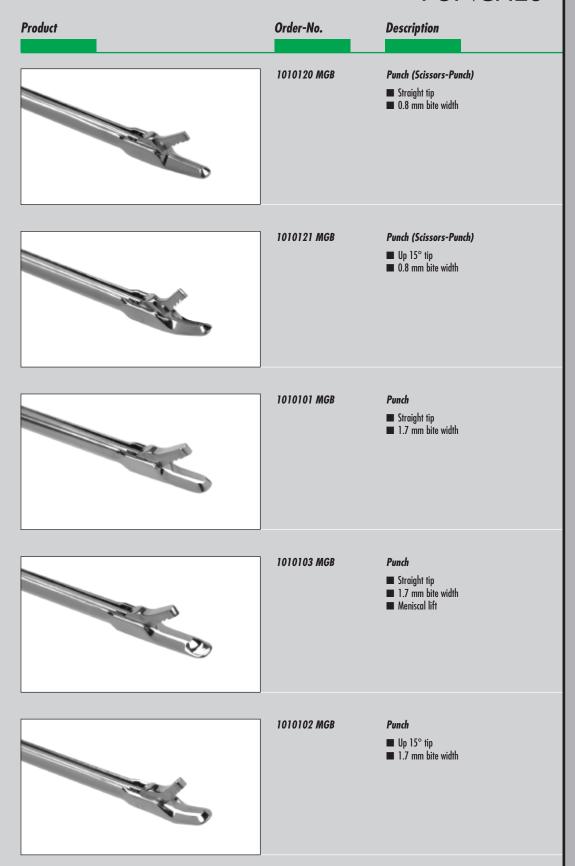
- ACCESS Arthroscopy unique 5.0 mm Round Punch enhances the ability to contour and shape the curvature of the meniscus
- Optimal for contouring the medial and lateral areas of the meniscus



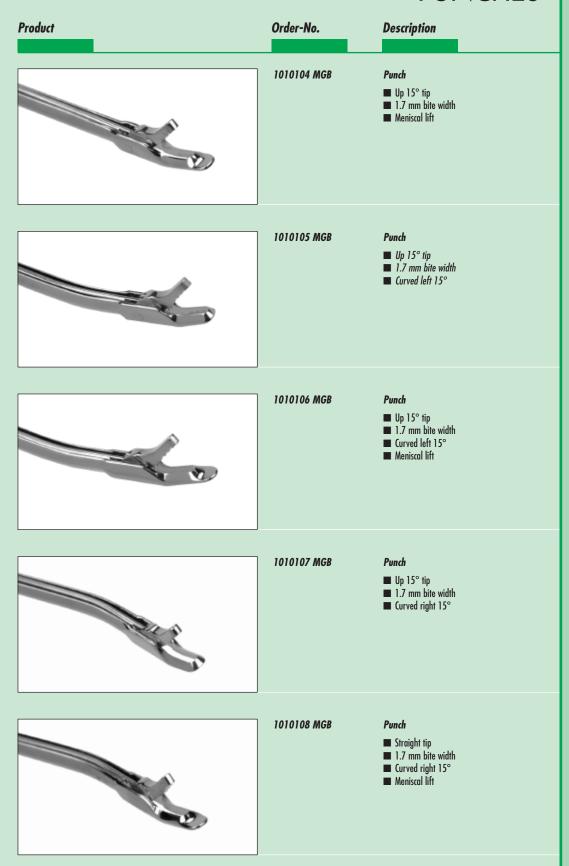
#### Rongeur, 4.0 mm bite width

 ACCESS Arthroscopy 4.0 mm Rongeur incorporates a low profile boxed tip design that promotes increased access and maneuverability of the tip edges for biopsying or trimming of the meniscus

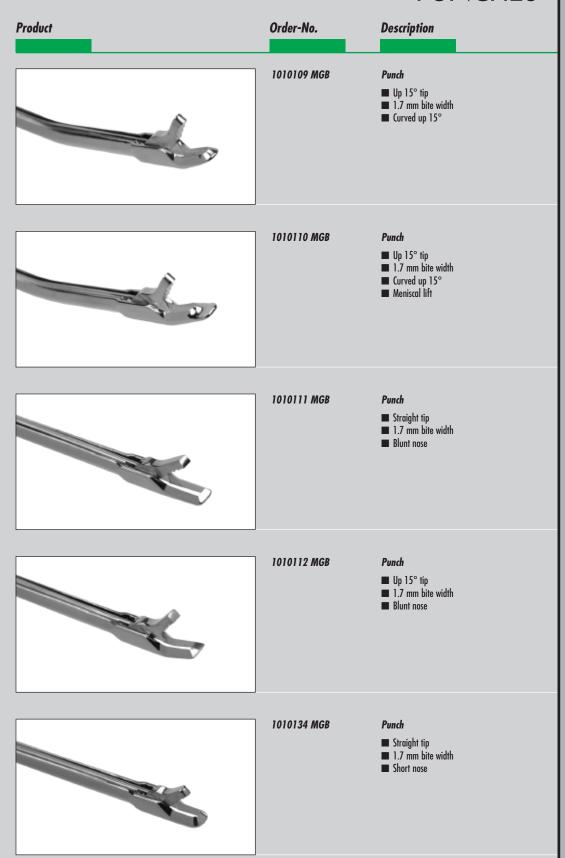








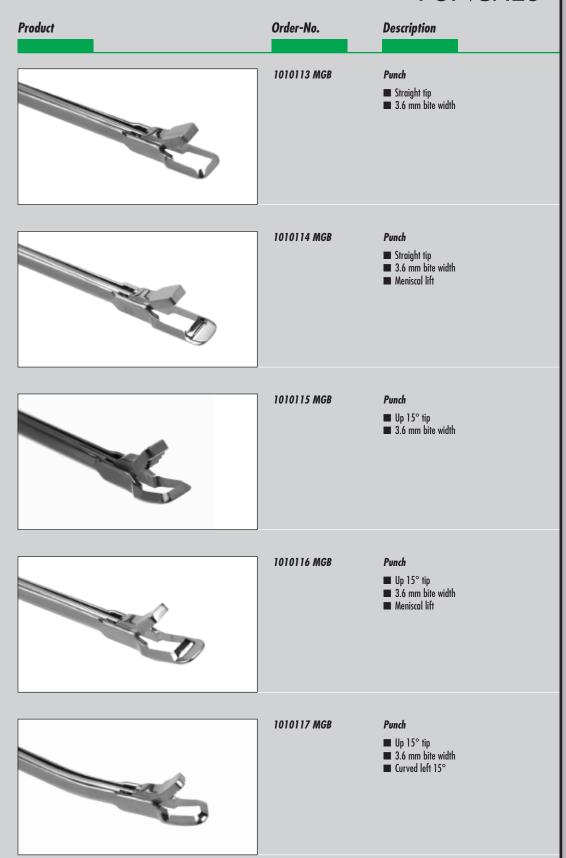




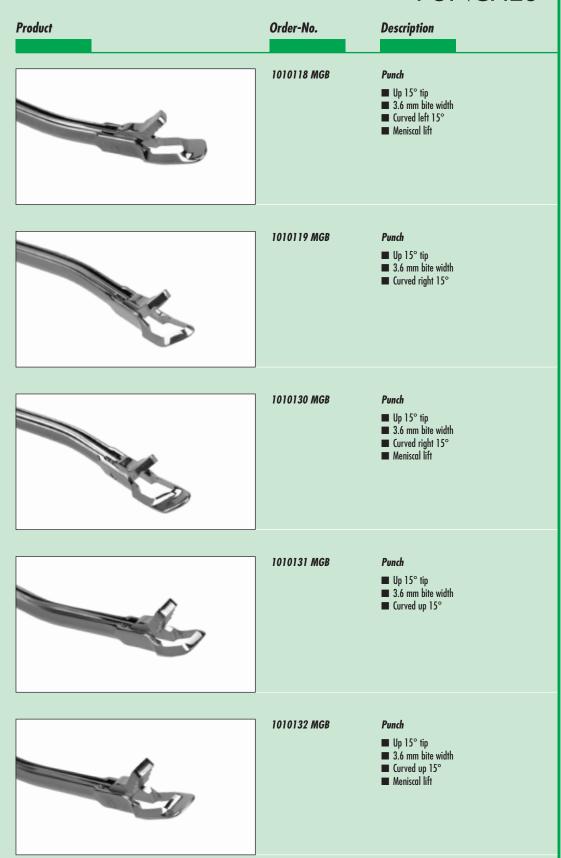




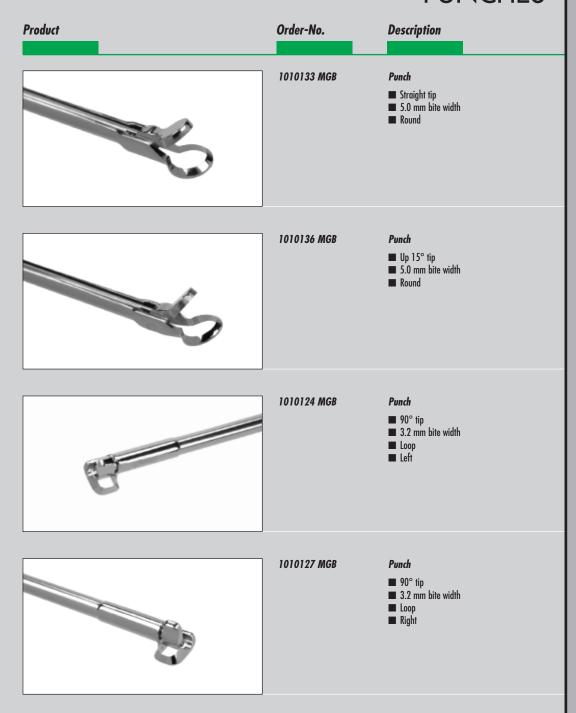








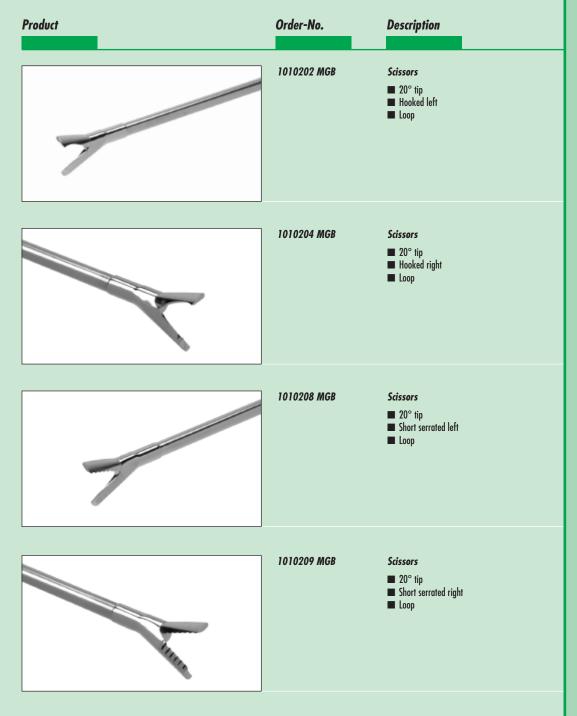






**SCISSORS** 

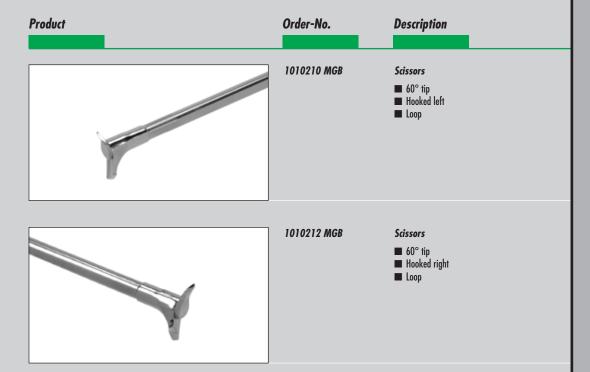
20° TIP





**SCISSORS** 

60° TIP



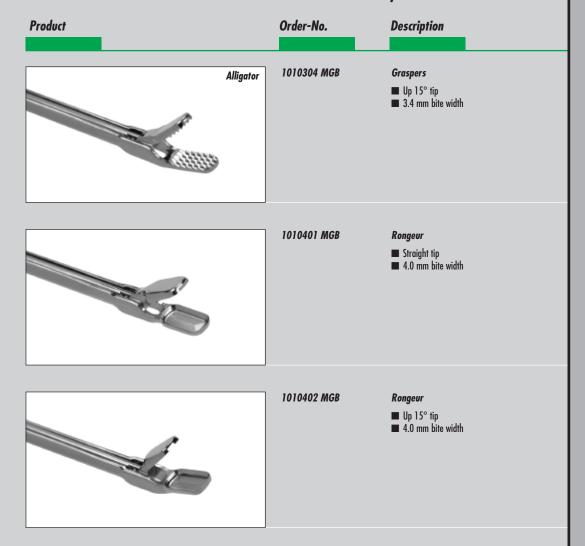


### **GRASPERS**



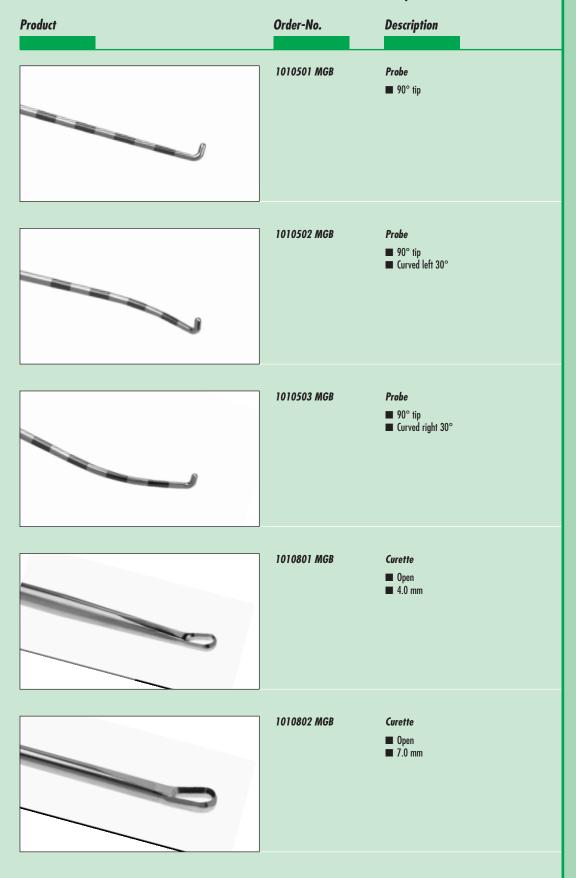


### GRASPERS/RONGEURS



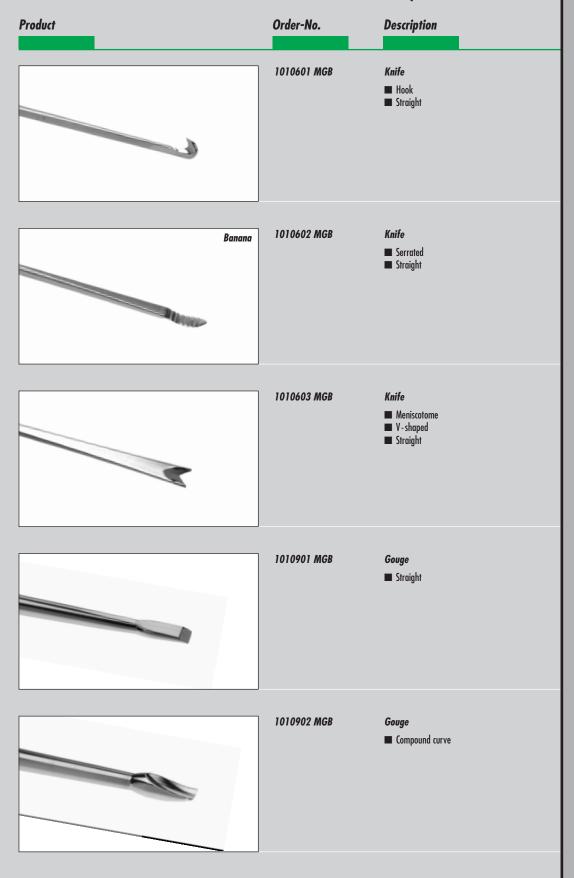


## PROBES/CURETTES





## KNIVES/GOUGES





## INSTRUMENTS

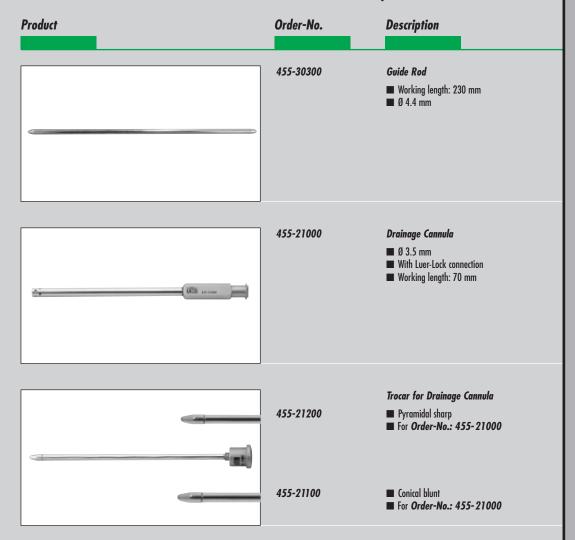
## **RASPS**





## **TELESCOPES**

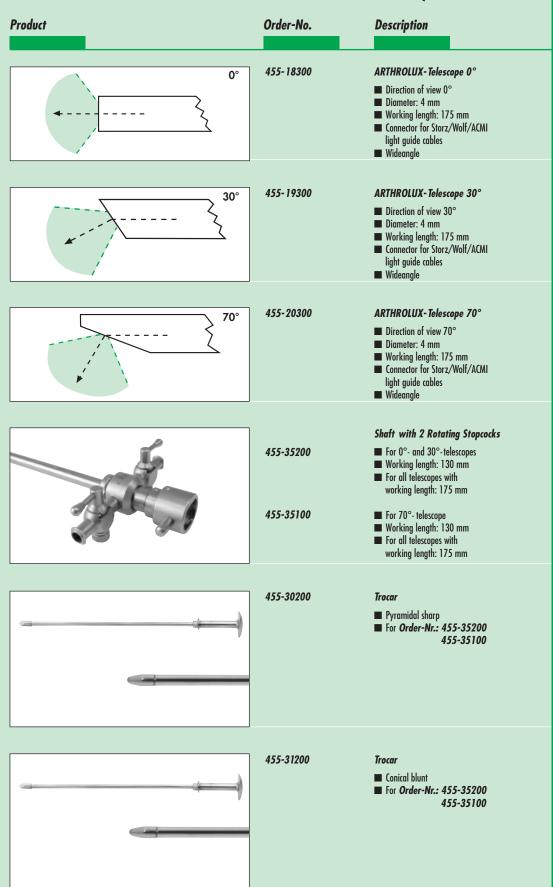
## GUIDE ROD/CANNULAS





## **TELESCOPES**

### TELESCOPES/SHAFTS

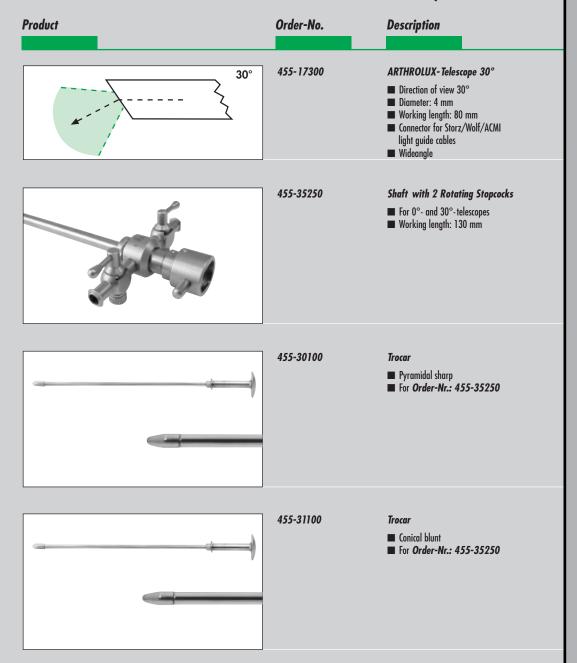




## **TELESCOPES**

## TELESCOPES/SHAFTS

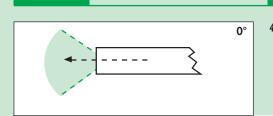
Ø 4 mm/80 mm





### TELESCOPES/SHAFTS

Ø 2.7 mm/180 mm

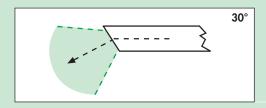


**Product** 

Order-No. **Description** 

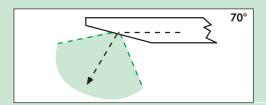
#### 455-28200 ARTHROLUX-Telescope 0°

- Direction of view 0°
- Diameter: 2.7 mm
- Working length: 180 mm
   Connector for Storz/Wolf/ACMI light guide cables



ARTHROLUX-Telescope 30° 455-29200

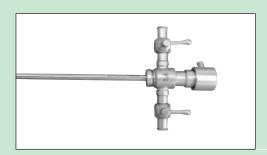
- Direction of view 30°
- Diameter: 2.7 mm
- Working length: 180 mm
  Connector for Storz/Wolf/ACMI light guide cables



455-25200

#### ARTHROLUX-Telescope 70°

- Direction of view 70°
- Diameter: 2.7 mm
- Working length: 180 mm
  Connector for Storz/Wolf/ACMI
  light guide cables



455-35270

#### Shaft with 2 Rotating Stopcocks

- For 0°- and 30°-telescopes
   Working length: 130 mm
   For all telescopes with working length: 180 mm



455-30270

### Trocar

- Pyramidal sharp
   For *Order-Nr.: 455-35270*



455-31270

#### Trocar

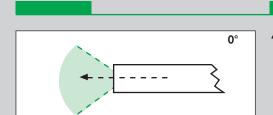
- Conical blunt
- For Order-Nr.: 455-35270



## TELESCOPES/SHAFTS

Ø 2.7 mm/100 mm



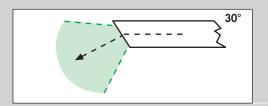


**Product** 

Order-No. **Description** 

455-26200 ARTHROLUX-Telescope 0°

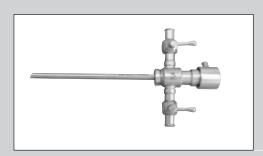
- Direction of view 0°
- Diameter: 2.7 mm
- Working length: 100 mm
   Connector for Storz/Wolf/ACMI light guide cables



455-27200

#### ARTHROLUX-Telescope 30°

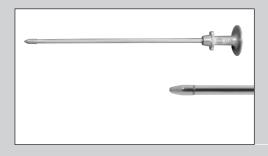
- Direction of view 30°
- Diameter: 2.7 mm
- Working length: 100 mm
- Connector for Storz/Wolf/ACMI light guide cables



455-35370

#### Shaft with 2 Rotable Swiveling Stopcocks

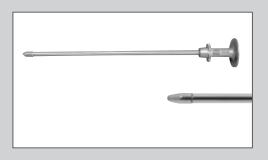
- For 0°- and 30°-telescopes
   Working length: 75 mm
   For all telescopes with working length: 100 mm



455-30370

#### Trocar

- **■** Conical
- For *Order-No.: 455-35370*



455-31370

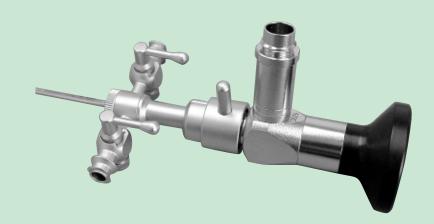
### Trocar

- **■** Conical
- For *Order-No.: 455-35370*



TELESCOPES/SHAFTS

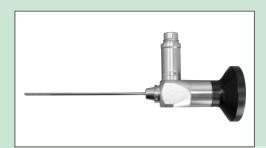
Ø 1.9 mm/68 mm



Product

Order-No.

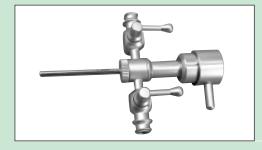
Description



455-12000

Telescope

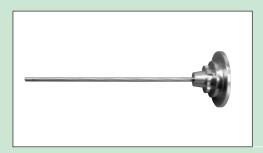
■ 30° ■ Working length: 68 mm



455-31190

Shaft

- 2 rotating stopcocks
   Working length: 33 mm
   For all telescopes with working length: 68 mm



455-35190

Trocar

■ Blunt

■ For *Order-No.: 455-31190* 



### SHAVER BLADES

**Product** 

Order-No.

**Description** 



**655-80125** (5 pieces) **655-80135** (5 pieces) **655-80142** (5 pieces) **655-80155** (5 pieces) FR Full Radius Resektor ■ Ø 2.5 mm

■ Ø 3.5 mm ■ Ø 4.2 mm

■ Ø 5.5 mm

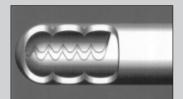


**655-80235** (5 pieces) **655-80242** (5 pieces) **655-80255** (5 pieces) **AFR** Aggressive Full Radius

■ Ø 3.5 mm

■ Ø 4.2 mm

■ Ø 5.5 mm



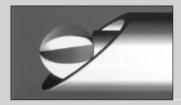
**655-80335** (5 pieces) **655-80342** (5 pieces) 655-80355 (5 pieces)

AMC Aggressive Meniscus Cutter

■ Ø 3.5 mm

■ Ø 4.2 mm

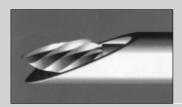
■ Ø 5.5 mm



655-80442 (5 pieces) **655-80455** (5 pieces) RB Round Burr

■ Ø 4.2 mm

■ Ø 5.5 mm



**655-80555** (5 pieces)

TB Tapered Burr

■ Ø 5.5 mm



655-80655 (5 pieces)

OB Oval Burr

■ Ø 5.5 mm



## SHAVER

### SHAVER-SYSTEM »FORTIS PDS«

Order-No.: 655-00000



#### **Control Unit**

FORTIS PDS is the newly designed high end Auto-Shaver-System with digital processing, clear arranged display and function keys. The maximum speed of max. 6000 rpm and max. 2500 rpm in oscillation mode is available. FORTIS PDS has special modes for hard and soft tissue. This guarantees optimized parameters for any kind of application.

### **Option in Future**

This control unit will allow the drive separate powered instrument (Drilling, Sawing device).

### Voice Feedback

All settings from the foot-pedal and the power console are confirmed acoustically through a speach module.

#### Hard and Soft Tissue

MGB patented a new optimized oscillation mode to treat hard or soft tissue. We have proved the usefullness during many procedures.







#### Foot-Pedal

The multifunction foot-pedal has been specially designed for the use with new MGB-Shaver-System FORTIS PDS. The foot-pedal has 5 switches and allows an easy and precise monitoring of FORTIS PDS. The accelerator sensitivity can be selected between low, middle and high.

#### Handpiece

The ergonomic designed handpiece is autoclavable. The stopcock guarantees a precise monitoring of the suction. Tubes with various diameter can be easy connected.

#### On Screen Display

The system displays the use mode, rpm and the setting of foot-pedal to the monitor during operation.



## TECHNICS

## GENERAL

Order-No.	Order-No.			
655-00000	Shaver »FORTIS PDS«			
655-00010	■ Shaver Console			
655-00020	■ Foot-pedal			
655-00030	■ Handpiece			
Main Connection				
Power supply	~200 - 240 V AC			
Frequency	50 - 60 Hz			
Power consumption	Max. 220 VA			
Fuse	2 x T 2, 0A/250 V			
Classification				
Safety class	1 with potential equalization connection			
Protection	IP X 1 console, IP X 7 foot-pedal, handpiece			
Туре	BF			
Approval	C€			
Dimension and Weight (Main Unit)				
Dimension (w/h/d)	440 x 156 x 356 mm			
Weight	9.6 kg			
Dimension and Weight (Handpiece)				
Dimension (w/h/d)	180 x 28 x 37 mm			
Weight	0.75 kg			
Cable length	3.0 m			
Dimension and Weight (Foot-Pedal)				
Dimension (w/h/d)	290 x 50 x 208 mm			
Weight	1.7 kg			
Cable length	3.0 m			
Extent of Delivery				
Shaver »FORTIS PDS«	Shaver Console Foot-pedal Handpiece incl. cable Power cable User manual			
Interface				
	■ 1 x Y/C (S-VHS) in ■ 1 x Y/C (S-VHS) out ■ 1 x composit (in) ■ 1 x composit (out)			

## **SPECIFICATION**

Main Unit PC-2000 A				
Rotation:	high-low	Rotation selectable		
	forward	Max. 6000 rpm		
	reverse	Max. 6000 rpm		
Oscillation:	hard-soft	Rotation selectable		
	oscillation time	Optimized		
	hard	Max. 2500 rpm		
	soft	Max. 2500 rpm		
Voice feedback		4 selectable levels		
Auto identification of handpiece				
Handpiece SI				
Blade connection		Compatible to Linvatec		
Suction channel		With stopcock		
Autoclavable		134°C, 2.2 bar		
Multifunction Foot-Pedal FP-500				
Accelerator sensitivity		Low/middle/high		
Change operation mode		■ Forward-reverse ■ High-low ■ Oscillation: hard-soft ■ Speed: accelerator or on/off		



## IRRIGATION PUMP

### **IRRIGATION PUMP**

Order-No.: 670-96700

Product Order-No. Description



### Safe and Simple

With its easy handling and comprehensive equipment, the *Irrigation Pump A 106* is the optimum partner for physicians who operate with the most modern technology.

- Automatic instrument recognition optimises performance by adapting to any kind of inflow instrumentation
- Easy to load disposable and reusable tubing set combined with simple handling lead to simpler and safer operation
- Precise regulation and contact-free pressure monitoring ensure constant distension of the joint, even during the use of a Shaver-System
- Increased patient safety through intra-articular pressure monitoring and active pressure relief



Cable Remote Control

■ Order-No.: 670-96440



Pneumatic Foot-pedal

■ Order-No.: 670-96430



**Tubing Set** 



## TECHNICS

## **GENERAL**

Order-No.			
670-96700	Irrigation Pump A 106		
Main Connection	ain Connection		
Power supply	~100 - 240 V AC		
Frequency	50 - 60 Hz		
Power consumption	75 VA		
Classification			
Safety class	1 with potential equalization connection		
Protection	IP 41		
Туре	BF		
Approval			
Dimension and Weight			
Dimension (w/h/d)	265 x 145 x 390 mm		
Weight	7.1 kg		
Extent of Delivery	xtent of Delivery		
Irrigation Pump A 106	■ Main power cable ■ User manual		
Interface			
Foot-pedal	Connection for the washing function		
Connection cable	For cable remote control		

## **SPECIFICATION**

Main Unit		
Pressure range	0 - 200 mm Hg	
Flow range	0.1 - 1.5 l/min.	
High pressure safety	300 mm Hg	

Order-No.	Accessories
670-96410	Limited use tubing set, Silicone
670-96460	10 x membrane for pressure chambre for limited use tubing set
670-96420	Disposable tubing set, PVC (10 pcs.)
670-96430	Pneumatic foot-pedal for washing function
670-96440	Cable remote control



### **MGB BERLIN**

YOUR PARTNER IN ENDOSCOPY AND COM-PLETE SYSTEMS FOR THE MINIMAL INVASIVE SURGERY

ENT - Laryngoscopy, Bronchoscopy, Otoscopy, Sinoscopy

Endoscopic Surgery - Laparoscopy

Urology - Resectoscopy - Cystoscopy

Gynaecology – Hysteroscopy – Resectoscopy

Arthroscopy — Shaver System & Unique Handheld Instruments

### Electronic Devices for all Applications

- Video Cameras
- Monitors
- Light-Sources
- Disto II Digital Storage
- Gas-Insufflators
- Shaver
- Pumps
- RF-Surgical Device



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Internet: www.mgb-berlin.de

