

60

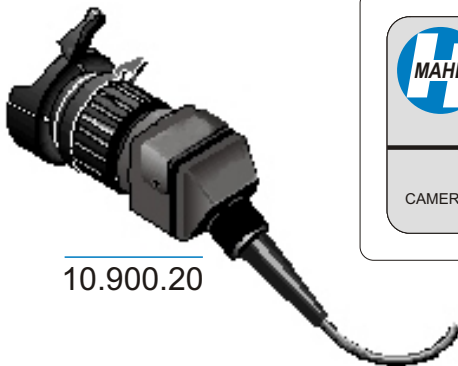
Sinuscopy



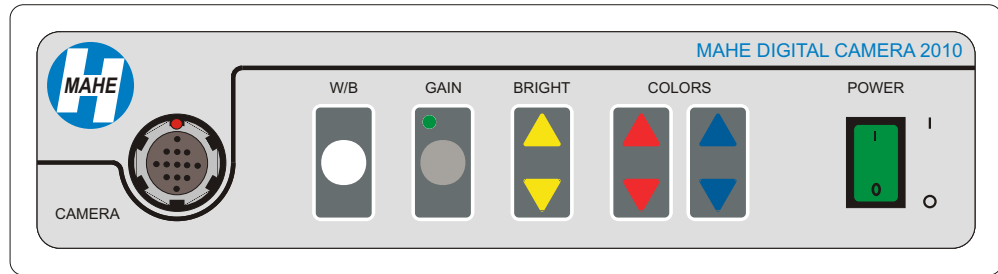
MAHE International, Inc.

Made in Germany

CE / ISO 9001



10.900.20



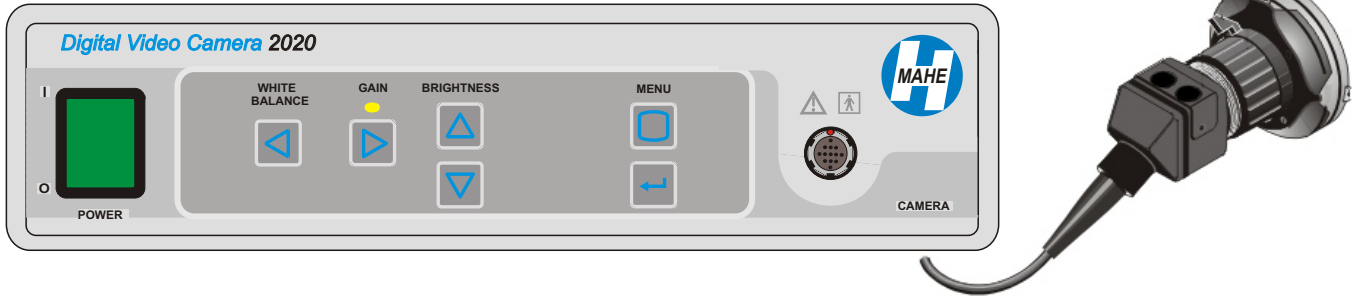
HIGH RESOLUTION DIGITAL MEDICAL VIDEO CAMERA

- Lightweight compact design and high resolution and sensitivity
- Variety of camera heads for endoscopy and microscopy
- Interfaces to all existing rigid and flexible endoscopes
- Adapters with anti-moiré filters for use with fiberscopes available
- Fully immersible camera head and optical adapters for endoscopy
- User-friendly set-up , operation and on-screen Display
- Automatic white balance and manual color control
- Automatic electronic shutter for optimal exposure
- Multiple outputs: composite video, S-VHS and RGB
- Easy replacement of camera head cable

Camera Specifications

Image Device	1/3" CCD Sensor Digital Signal Process
Horizontal Resolution	470 CCD Lines
Number of Pixels	approx. 410,000 pixels 811(H) x 508 (V)
Minimum Illumination	1,5 Lux
White Balance	Automatic by front panel in less than 3 seconds
Signal/ Noise Ratio	Greater than 46dB @ AGC off
Video Outputs	2 x BNC / 1 2 x S-VHS / 1 x RGB
Weight Camera	1.8 kg
Weight Camera Head	46 g
Dimensions	220 (W) x 60 (H) x 250(D) mm

Digital Single Chip CCD Camera



10.900.25

- **Multilevel enhance function with**
- **Freeze function with live image (Picture in Picture)**
- **Optical adapters with anti-moire filters for fiberscopes (optional)**
- **Programmable camera head buttons**
- **Fully immersible camera head and**
- **Easy replacement of camera head cable**
- **Automatic window adjustment for W/B and exposure**
- **Very fast electronic shutter speed and response time**
- **Optional keyboard hook-up**
- **On-screen patient data input from keyboard**
- **On-screen menu control from keyboard or front panel**
- **Five user files with preset parameters**
- **On-screen time/date clock and stop watch**
- **RS-232C / S-Video link for computer communication**
- **Multiple video outputs: composite video, Y/C and RGB**
- **Network communication with other system devices (optional)**
- **Manual shutter speed control**

Camera Specifications

Image Device	1/3" CCD Sensor Digital Signal Process
Horizontal Resolution	752 CCD CCD Lines
Number of Pixels	470,000 PAL / 410,000 NTSC
Minimum Illumination	Less than 1.5 Lux
White Balance	Auto adjust in less than 1 second
Signal/ Noise Ratio	Greater than 50dB @ AGC off
Video Outputs	2 x BNC / 2 x S-VHS / 1 x RGB
Weight Camera / Head	2.1 kg / 46 g
Dimensions	295 (W) x 75 (H) x 253(D) mm

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Website: MahelInternational.com

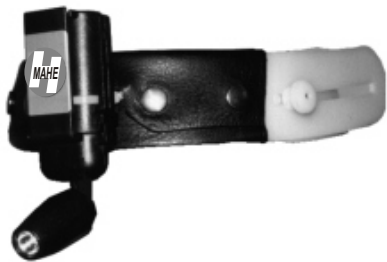
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SIN-CA2

06/2006



Fiber Optic Headlights

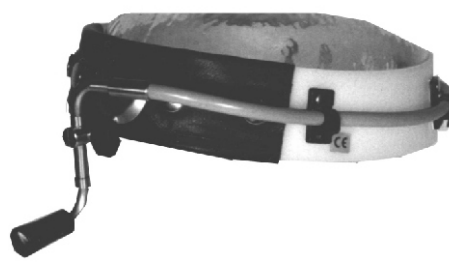


Xenon Headlight With Integrated Battery Box

Very bright Xenon Headlight with high power optical system and fixed focus. Special miniature Xenon incandescent reflector lamp (6000 candle power), optimized light spot, mobile use with integrated battery box for 2 AA cells. Ergonomic adjustable headband with black leather bolster.

10.081.37 Xenon Headlight With Adjustable Headband & Leather Bolster

10.081.37S Xenon Headlight With Softband

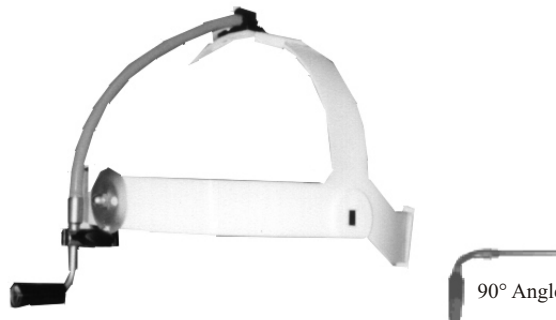


Office Headlights

High light capacity miniature headlight for intensive depth illumination. Very small adjustable optic. Variable light beam. 2200 mm long F/O light guide is mounted on right side of ergonomic and leather bolstered headband. Without adaptor for light source.

10.083.15 Office Headlight

10.083.17 Office Headlight with Cable End Angled 90 Degrees



Economy Miniature OR Headlight With Cross Band

Simple fiber optic miniature headlight for operation theatre. The continuous fiber bundle of 2.6 mm diameter and the small optic produce a small and bright spot light spot. Size and direction of the spot can be adjusted. The ergonomic headband with cross band can be adjusted by one hand and provides comfortable wearing for long periods of use. Without adaptor for light source.

10.083.45 Economy Miniature Headlight With Cross Band

10.083.47 Economy Miniature Headlight with Cross Band & End Angled 90 Degrees

Battery Powered Light Sources

Xenon Light Handle

11.001.34

2x AAA Batteries



System Light Handle

11.001.36

Maximum Light, Minimum Size. Autoclavable. 2 AAA Batteries. Either A Storz, Wolf, or ACMI Adaptor may be ordered separately.



OR Headlights

Operating Room version of miniature headlight. Has a fiber bundle-0 of 3.5 mm as well as a double lense system effect. It has a small and homogenous light spot. The adjustable optic is very small. The variable light beam is 2200 mm long F/O light guide is mounted on the right side of the ergonomic and leather bolstered headband. Without adaptor for the light source.

10.083.25 OR Headlight

10.083.27 OR Headlight with Cable End Angled 90 Degrees



OR Headlights With Cross Band

Fiber optic miniature headlight for the Operating Room. Perfect view due to the very small optic. The fiber bundle-0 of 3.5 mm. The double lense system effect and a small and homogenous light spot. The leather bolstered headband with the cross band can be adjusted with one hand. The headlight is comfortable during long periods of use. Without adaptor for light source.

10.083.35 OR Headlight With Cross Band

10.083.37 OR Headlight with Cross Band & Cable End Angled 90 Degrees

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SIN-HE1

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06/2006

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LED-Headlight with battery box

Power supply: 5x batteries size AA
 Operation time: Approximately 3 h
 Headband: ergonomic, adjustable, bolstered
 Light outlet: focusable
 Spot size range: 25-70mm (working dist. 30 cm) LED
 Power: 3 Watt
 Life: 50.000 hours continuous burn

10.095.00 Headlight including battery box

10.095.01 Belt battery box



LED-Headlight with small battery box on headband

Power supply: 3x batteries size AA
 Operation time: Approximately 2 h
 Headband: ergonomic, adjustable, bolstered
 Light outlet: focusable
 Spot size range: 25-70mm (working dist. 30 cm) LED
 Power: 3 Watt
 Life: 50.000 hours continuous burn

10.096.00 Headlight including battery box

10.096.01 Small battery box



LED-Headlight with rechargeable battery box (charger included)

Power supply: rechargeable battery box
 Operation time: Approximately 3.5 h / 4.5h
 Headband: ergonomic, adjustable, bolstered
 Light outlet: focusable
 Spot size range: 25-70mm (working dist. 30 cm) LED
 Power: 3 Watt
 Life: 50.000 hours continuous burn

10.097.00 Includes small rechargeable battery box

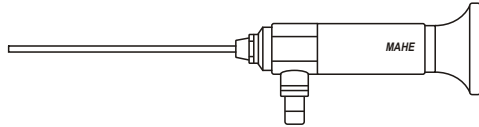
10.098.00 Includes large rechargeable battery box



10.097.01 Small rechargeable battery box

10.098.01 Large rechargeable battery box

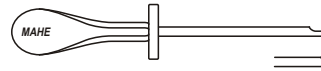
Sinuscopes and Accessories



Mini Sinuscope, Ø 1.7 mm, WL 107 mm

	Non-autoclavable	Autoclavable
0°	60.000.00	60.000.00A

AUTOCLAVE
134° C / 273° F



Trocar and cannula for Sinuscopy

O.D. 5 mm, 8,5 cm cannula length
bill shaped beak oblique beak

60.000.10	60.000.15
-----------	-----------

O.D. 3,3 mm, 7,5 cm cannula-length,
oblique beak, for use with 2,7 mm telescopes

60.000.20



Telescope Bridge

60.000.25

Telescope handles



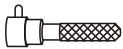
Telescope handle round, 11 cm length
For forward-oblique and lateral 4 mm telescopes

60.000.01



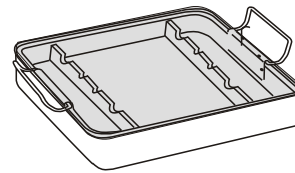
Telescope handle flat, 11 cm length
for straight forward 4 mm telescopes

60.000.02



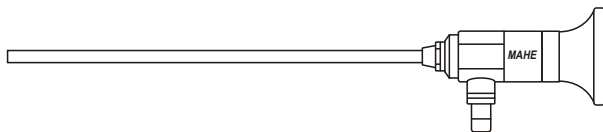
Telescope handle round, 6,5 cm length,
For 2.7 mm telescopes

60.000.03



Endoscope Tray for 2 Sinuscopes

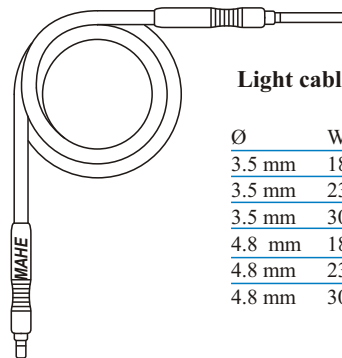
10.014.00



Sinuscope, Ø 2.7 mm, WL 105 mm

	Non-autoclavable	Autoclavable
0°	60.001.00	60.001.00A
30°	60.001.30	60.001.30A
70°	60.001.70	60.001.70A

AUTOCLAVE
134° C / 273° F



Light cable

Ø	Working length	
3.5 mm	1800 mm	11.035.18
3.5 mm	2300 mm	11.035.23
3.5 mm	3000 mm	11.035.30
4.8 mm	1800 mm	11.048.18
4.8 mm	2300 mm	11.048.23
4.8 mm	3000 mm	11.048.30

Sinuscope, Ø 2.7 mm, WL 140 mm

	Non-autoclavable	Autoclavable
0°	60.002.00	60.002.00A
30°	60.002.30	60.002.30A
70°	60.002.70	60.002.70A

Sinuscope, Ø 2.7 mm, WL 185 mm

	Non-autoclavable	Autoclavable
0°	60.003.00	60.003.00A
30°	60.003.30	60.003.30A
70°	60.003.70	60.003.70A

Sinuscope, Ø 4 mm, WL 185 mm

	Non-autoclavable	Autoclavable
0°	60.004.00	60.004.00A
30°	60.004.30	60.004.30A
45°	60.004.45	60.004.45A
70°	60.004.70	60.004.70A

Light Source - Adapter



Storz



11.001.00

Olympus



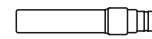
11.001.02

Wolf / Dyonics



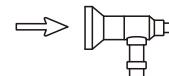
11.001.04

ACMI / British Standard



11.001.06

Endoscope - Adapter



Storz / Olympus



11.001.20

Wolf



11.001.22

ACMI / British Standard



11.001.24

Stryker



11.001.26

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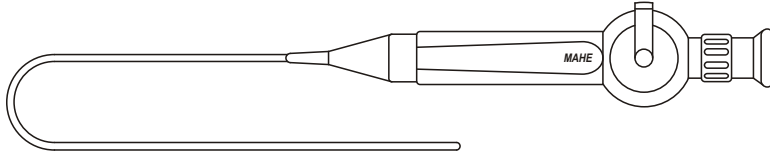
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SIN-01

06/2006



Nasopharyngoscope, Telescopes heavy duty



2.8 mm Flexible nasopharyngoscope

60.005.28

- Applicable for pediatrics

Working length:	300 mm
Working Ø:	2.8 mm
Deflection:	up 120°, down 100°
Direction of view:	0°
Field of view:	95°
Depth of focus:	3 mm to 50 mm

3.4 mm Flexible nasopharyngoscope

60.005.34

- 3.4 mm Diameter

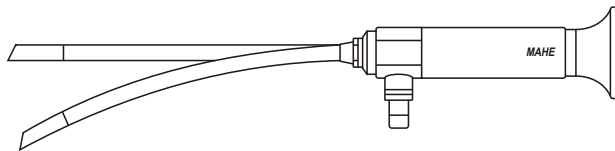
Working length:	300 mm
Working Ø:	3.4 mm
Deflection:	up 180°, down 100°
Direction of view:	0°
Field of view:	95°
Depth of focus:	3 mm to 50 mm

3.6 mm Flexible nasopharyngoscope

60.005.36

- 3.6 mm Diameter

Working length:	300 mm
Working Ø:	3.6 mm
Deflection:	up 180°, down 100°
Direction of view:	0°
Field of view:	95°
Depth of focus:	5 mm to 50 mm

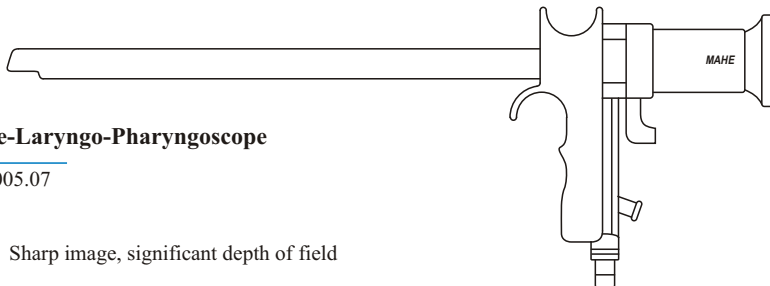


Working Ø:	2,9 mm
Length:	120 mm
Direction of view:	30°
Field of view:	75°

Telescope heavy duty

Not brake sensitive

60.005.05



Working Ø:	10 mm
Working length:	153 mm rigid
Direction of view:	90°
Field of view:	60°
Working distance:	15 mm to infinity

Tele-Laryngo-Pharyngoscope

60.005.07

- Sharp image, significant depth of field
- High performance lumina system
- Two different degrees of magnification: panoramic view and examination of details
- Integrated air channel for prevention of misted objective

- Soakable in disinfection
- Integrated air channel with Luer-lock connection
- Integrated fiberoptic illumination

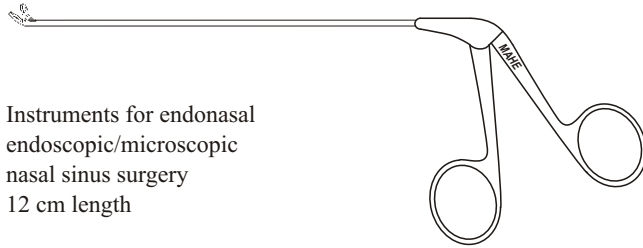
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SIN-02

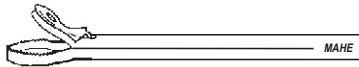
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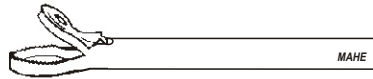


Instruments for endonasal
endoscopic/microscopic
nasal sinus surgery
12 cm length



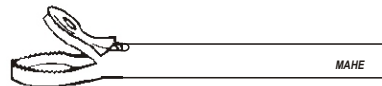
Blakesley through cutting forceps, straight, 3 mm wide

60.013.50



Blakesley through cutting forceps, straight, 3.5 mm wide

60.013.51



Blakesley through cutting forceps, straight, 4 mm wide

60.013.52



Blakesley through cutting forceps, 45° up-turned, 3 mm wide

60.013.55



Blakesley through cutting forceps, 45° up-turned, 3.5 mm wide

60.013.56



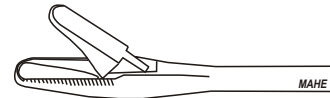
Blakesley through cutting forceps, 45° up-turned, 4 mm wide

60.013.57



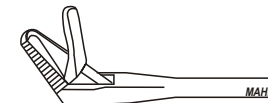
**Gruenwald through cutting forceps,
straight, 8 mm x 3 mm**

60.009.01



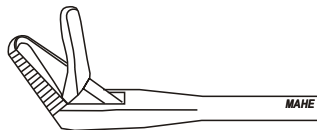
**Gruenwald through cutting forceps,
straight, 11.5 mm x 3.5 mm**

60.009.02



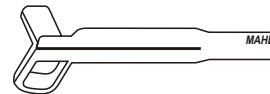
**Gruenwald through cutting forceps,
45° up-turned, 8 mm x 3 mm**

60.009.03



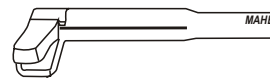
**Gruenwald through cutting forceps,
45° up-turned, 11.5 mm x 3,5 mm**

60.009.04



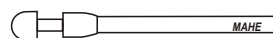
Antrum Punch, right side downward, forward cutting

60.014.04



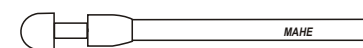
Antrum Punch, left side downward, forward cutting

60.014.05



Circular Punch, 3.5 mm WL 18 cm

60.014.06



Circular Punch, 4.5 mm WL 18 cm

60.014.07

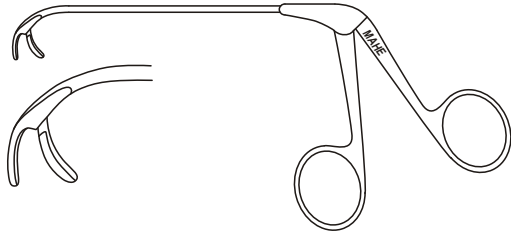
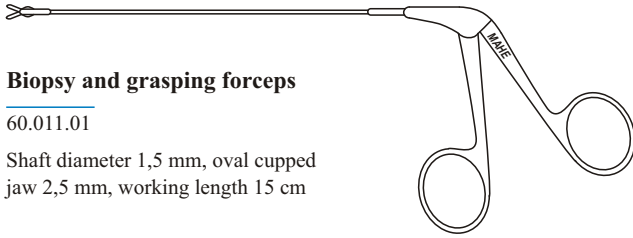


Forceps

Biopsy and grasping forceps

60.011.01

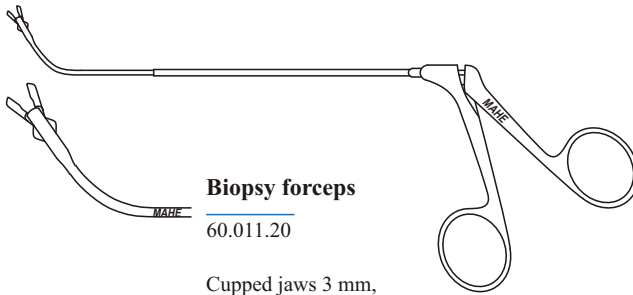
Shaft diameter 1,5 mm, oval cupped jaw 2,5 mm, working length 15 cm



Antrum grasping forceps

60.011.05

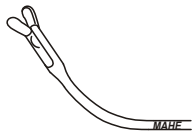
For endonasal removal of cysts and polypi, retrograd opening jaws 120°, working length 10 cm



Biopsy forceps

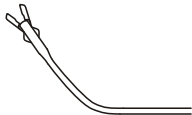
60.011.20

Cupped jaws 3 mm, 55° upturned, vertical opening



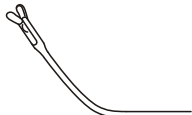
Same, horizontal opening

60.011.21



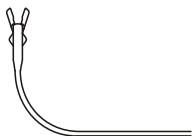
Same, 2 mm, 55° upturned, vertical opening

60.011.23



Same, horizontal opening

60.011.24



Biopsy forceps

60.011.25

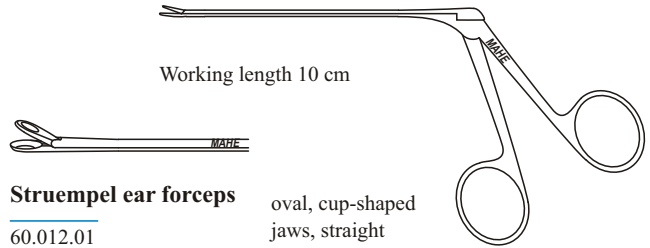
Cupped jaws, 2mm, 90° upturned, vertical opening



Same, horizontal opening

60.011.26

Working length 10 cm



Struempel ear forceps

60.012.01

oval, cup-shaped jaws, straight



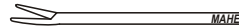
Same, 45° curved up

60.012.02



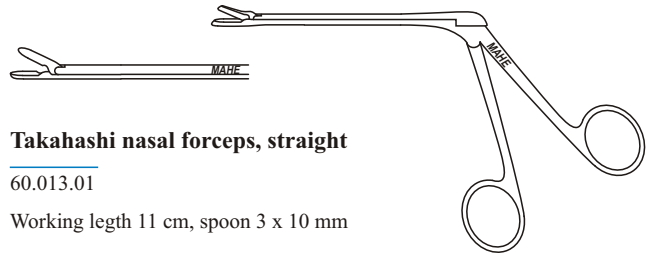
Same, 90° curved up

60.012.03



Bellucci scissors, working length 10 cm, straight

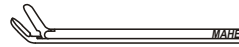
60.012.10



Takahashi nasal forceps, straight

60.013.01

Working length 11 cm, spoon 3 x 10 mm



Takahashi nasal forceps, 30° upturned

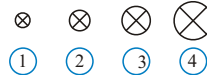
60.013.03

Working length 11 cm, spoon 3 x 10 mm



Struycen nasal through cutting forceps, working length

60.013.05



Hartmann nasal through cutting forceps, working length

60.013.10 Fig. ①

60.013.11 Fig. ②

60.013.12 Fig. ③

60.013.13 Fig. ④

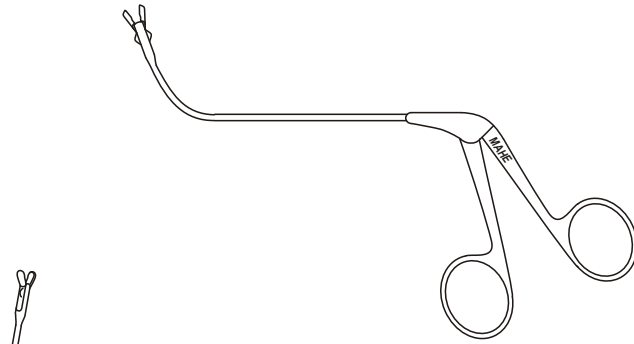
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SIN-04

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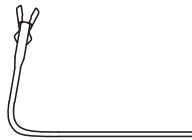
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Biopsy forceps, oval cupped jaws

2.6 mm	60.011.50
4.0 mm	60.011.70

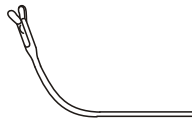
110° upturned, horizontal opening



Same

2.6 mm	60.011.51
4.0 mm	60.011.71

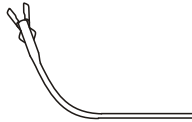
110° upturned, vertical opening



Same

2.6 mm	60.011.53
4.0 mm	60.011.73

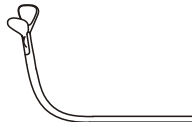
70° upturned, horizontal opening



Same

2.6 mm	60.011.54
4.0 mm	60.011.74

70° upturned, vertical opening



Polyp grasping forceps

60.011.58

Cupped jaws 3 x 1,5 mm, pear shaped, horizontal opening, 80° upturned

Same

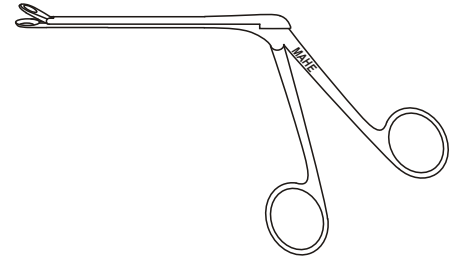
60.011.59

80° curved to left side

Same

60.011.60

80° curved to right side



Blakesley nasal forceps



Straight, working length 11 cm

3,5 x 8,0 mm	60.013.20	Fig. ①
4,0 x 10,5 mm	60.013.21	Fig. ②
5,0 x 12,0 mm	60.013.22	Fig. ③



45° upturned, working length 11 cm

3,5 x 8,0 mm	60.013.25	Fig. ①
4,0 x 10,5 mm	60.013.26	Fig. ②
5,0 x 12,0 mm	60.013.27	Fig. ③



90° upturned, working length 11 cm

3,5 x 8,0 mm	60.013.30	Fig. ①
4,0 x 10,5 mm	60.013.31	Fig. ②
5,0 x 12,0 mm	60.013.32	Fig. ③



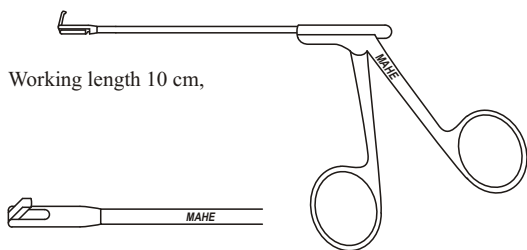
Struempel-Voss nasal forceps, 45° upturned, extra delicate, working length 11 cm

60.013.34



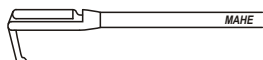
Forceps and Scissors

Working length 10 cm,



Antrum punch, upside backward cutting

Medium	60.014.01
Pediatric	60.014.11



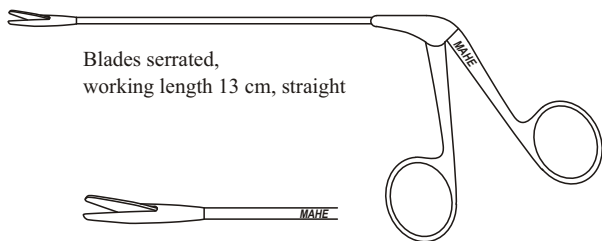
Same, left side backward cutting

Medium	60.014.02
Pediatric	60.014.12



Same, right side backward cutting

Medium	60.014.03
Pediatric	60.014.13



Blades serrated,
working length 13 cm, straight

Nasal scissors

60.015.01



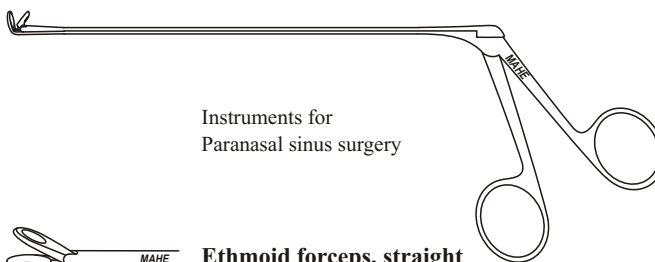
Same, curved left

60.015.02

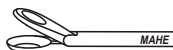


Same, curved right

60.015.03

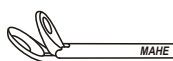


Instruments for
Paranasal sinus surgery



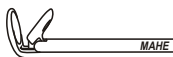
Ethmoid forceps, straight

Working length	
13 cm	60.016.01
16 cm	60.016.02
19 cm	60.016.03



Ethmoid forceps, 60° upturned

Working length	
13 cm	60.016.10
16 cm	60.016.11
19 cm	60.016.12



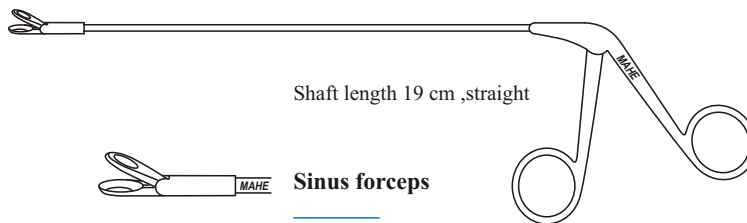
Ethmoid forceps, 90° upturned

Working length	
13 cm	60.016.15
16 cm	60.016.16
19 cm	60.016.17



Ethmoid scissors, straight

Working length	
13 cm	60.016.20
16 cm	60.016.21
19 cm	60.016.22



Shaft length 19 cm, straight



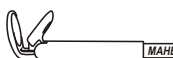
Sinus forceps

60.016.40



Same, 60° upturned

60.016.41



Same, 90° upturned

60.016.42

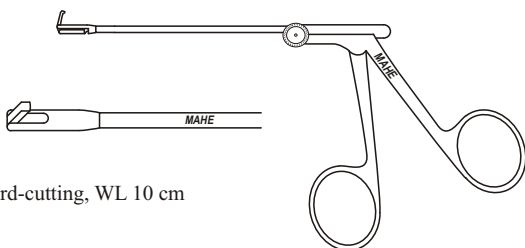
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Website: MahelInternational.com

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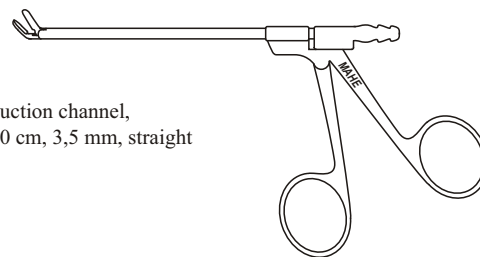
Toll Free (800) 294-7946 Phone (615) 269-7256 Fax (615) 269-4605 Email info@MahelInternational.com



Backward-cutting, WL 10 cm

Ostrum antrum punch, rotatable

60.017.10	2,5 mm
60.017.11	1,5 mm



With integrated suction channel,
working length 10 cm, 3,5 mm, straight



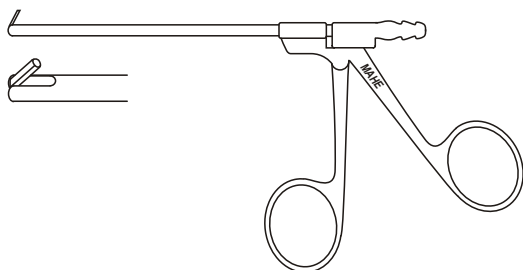
Takahashi suction punch for biopsy and grasping

3,5 mm	60.018.20
2,5 mm	60.018.22



Blakesley suction punch for biopsy and grasping

3,5 mm	60.018.30
2,5 mm	60.018.32



With integrated suction channel, working length 10 cm,
shaft diameter 4 mm, bite 2 mm, straight, upside backward cutting



Same, 45° upturned

3,5 mm	60.018.26
2,5 mm	60.018.28



Same, 45° upturned

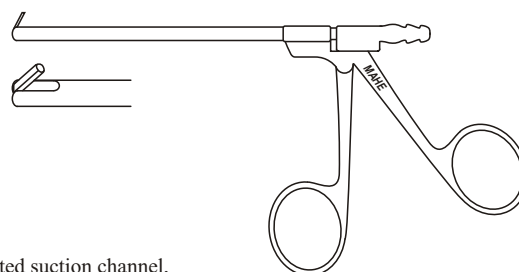
3,5 mm	60.018.36
2,5 mm	60.018.38

Antrum suction punch

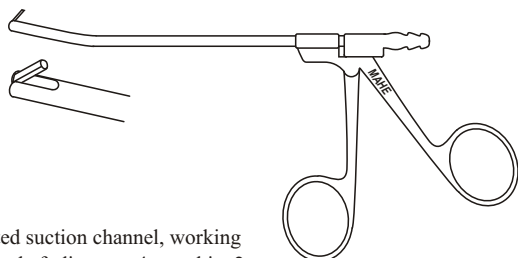
60.018.01

Same, right side backward cutting

60.018.02



With integrated suction channel,
working length 10 cm, shaft diameter 5 mm,
bite 2,5 mm, straight, upside backward cutting



With integrated suction channel, working
length 10 cm, shaft diameter 4 mm, bite 2
mm, upturned, upside backward cutting

Antrum suction punch

60.018.40

Same, left side backward cutting

60.018.41

Same, right side backward cutting

60.018.42

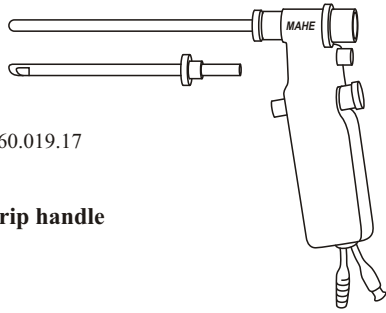
Antrum suction punch

60.018.05



Suction and Irrigation Handle and Punches

For use with suction and irrigation sheaths 60.019.10 - 60.019.17



Suction and Irrigation grip handle

60.019.00

Suction and irrigation sheath exchangeable for

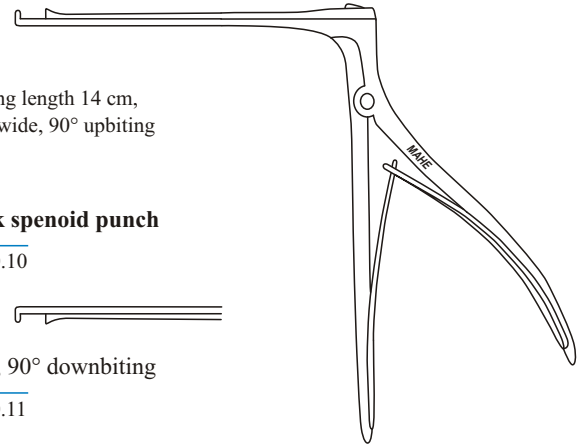
telescopes 2,7 mm Ø

0°	60.019.10
30°	60.019.11
70°	60.019.12

telescopes 4 mm Ø

0°	60.019.15
30°	60.019.16
70°	60.019.17

Working length 14 cm,
4 mm wide, 90° upbiting



Hajek spenoid punch

60.020.10



Same, 90° downbiting

60.020.11



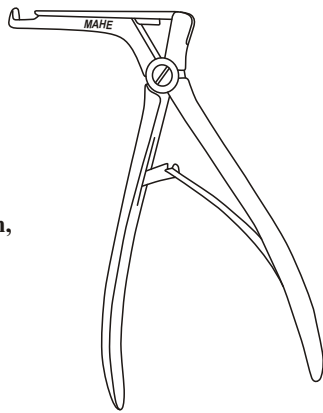
Same, 45° upbiting backwards

60.020.12

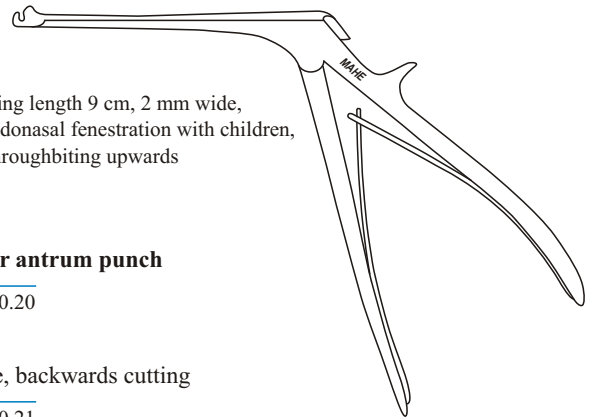


Citelli atrum punch, through-cutting

60.020.01	Fig. 1
60.020.02	Fig. 2
60.020.03	Fig. 3



Working length 9 cm, 2 mm wide,
for endonasal fenestration with children,
90° throughbiting upwards



Beyer antrum punch

60.020.20

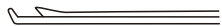
Same, backwards cutting

60.020.21

4 x 4 mm, 45° downbiting backward,
working length 14 cm

Hajek-Kofler spenoid punch

60.020.05



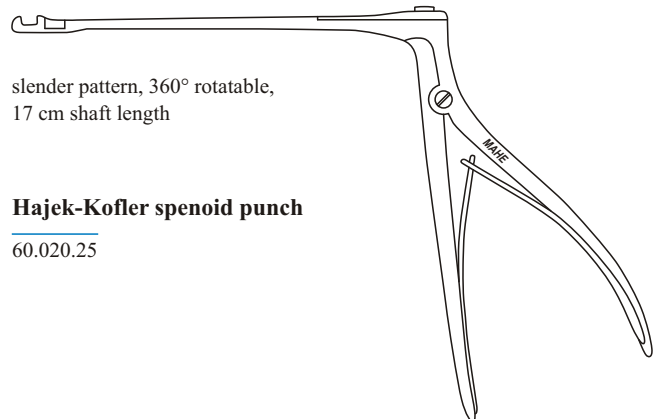
Same, 45° upbiting forward

60.020.06

slender pattern, 360° rotatable,
17 cm shaft length

Hajek-Kofler spenoid punch

60.020.25



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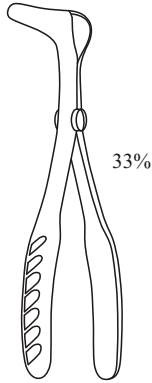
SIN-08

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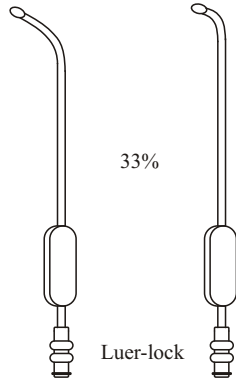
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Suction Tubes and Accessories



Hartmann nasal speculum, 15 cm

Small size	Large size
60.021.01	60.021.03



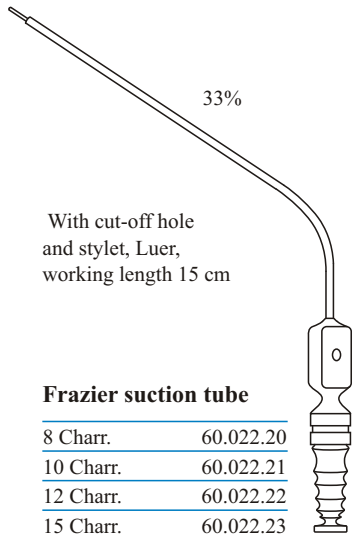
v. Eicken antrum cannula, 15 cm

O.D.	Long curved	Short curved
2,5 mm	60.022.01	60.022.03
3,0 mm	60.022.02	60.022.04
4,00 mm	60.022.05	60.022.06



Septum needle, angular, 0,8 mm, Luer-lock

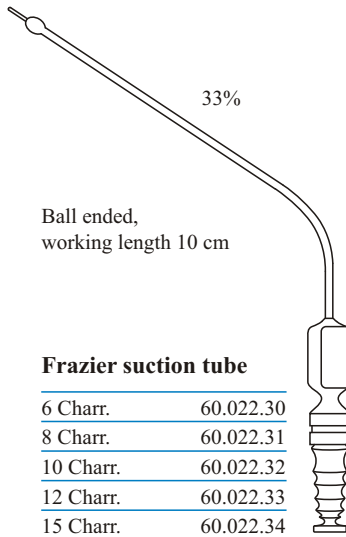
60.022.10



With cut-off hole and stylet, Luer, working length 15 cm

Frazier suction tube

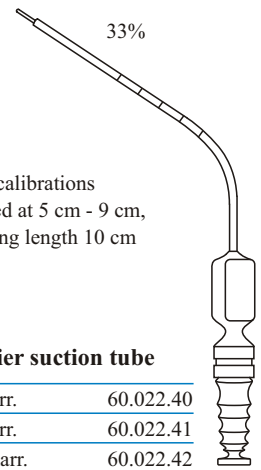
8 Charr.	60.022.20
10 Charr.	60.022.21
12 Charr.	60.022.22
15 Charr.	60.022.23



Ball ended, working length 10 cm

Frazier suction tube

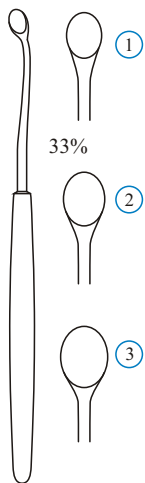
6 Charr.	60.022.30
8 Charr.	60.022.31
10 Charr.	60.022.32
12 Charr.	60.022.33
15 Charr.	60.022.34



With calibrations marked at 5 cm - 9 cm, working length 10 cm

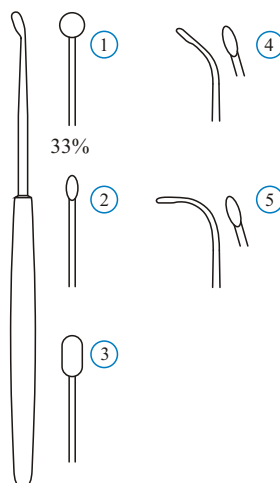
Frazier suction tube

6 Charr.	60.022.40
8 Charr.	60.022.41
10 Charr.	60.022.42



Antrum curette, 19 cm, oval

60.023.01	Fig. ①
60.023.02	Fig. ②
60.023.03	Fig. ③



Antrum curette, 19 cm, round, small size

60.023.05	Fig. ①
-----------	--------

Same, oblong, small size

60.023.06	Fig. ②
-----------	--------

Same, oblong, large size

60.023.07	Fig. ③
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Sinus frontal curette, 19 cm, oblong, small size

55°	60.023.10	Fig. ④
90°	60.023.11	Fig. ⑤

Sin-09

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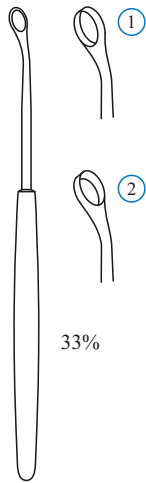
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SIN-09

06/2006



Curettes and Accessories

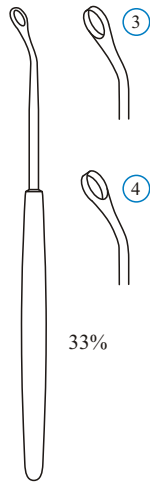


33%

Antrum curette, 19 cm

Forward cutting

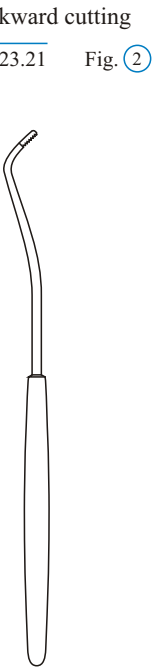
60.023.20 Fig. ①



33%

Small, forward cutting

60.023.22 Fig. ③

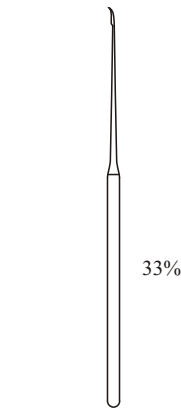


Backward cutting

60.023.21 Fig. ②

Small, backward cutting

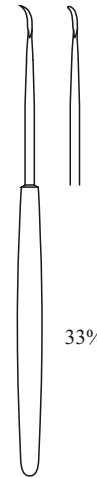
60.023.23 Fig. ④



33%

Sickle knife, pointed, 16 cm

60.023.30



33%

Sickle knife, 19 cm, pointed

60.023.35

Same, tip rounded, blunt

60.023.40

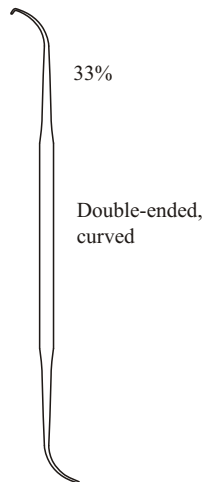
Frontal sinus rasp

Strong pattern

60.023.50

Slender pattern

60.023.51

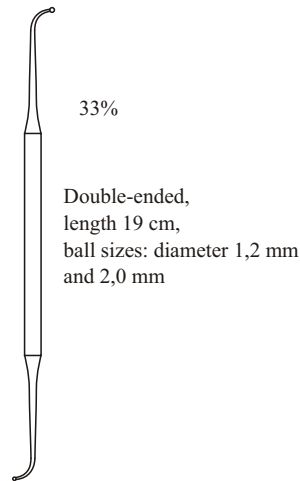


33%

Double-ended,
curved

Frontal sinus ostium seeker

60.023.60

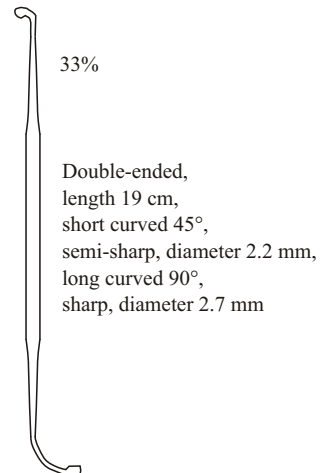


33%

Double-ended,
length 19 cm,
ball sizes: diameter 1,2 mm
and 2,0 mm

Maxillary sinus ostium seeker

60.023.61

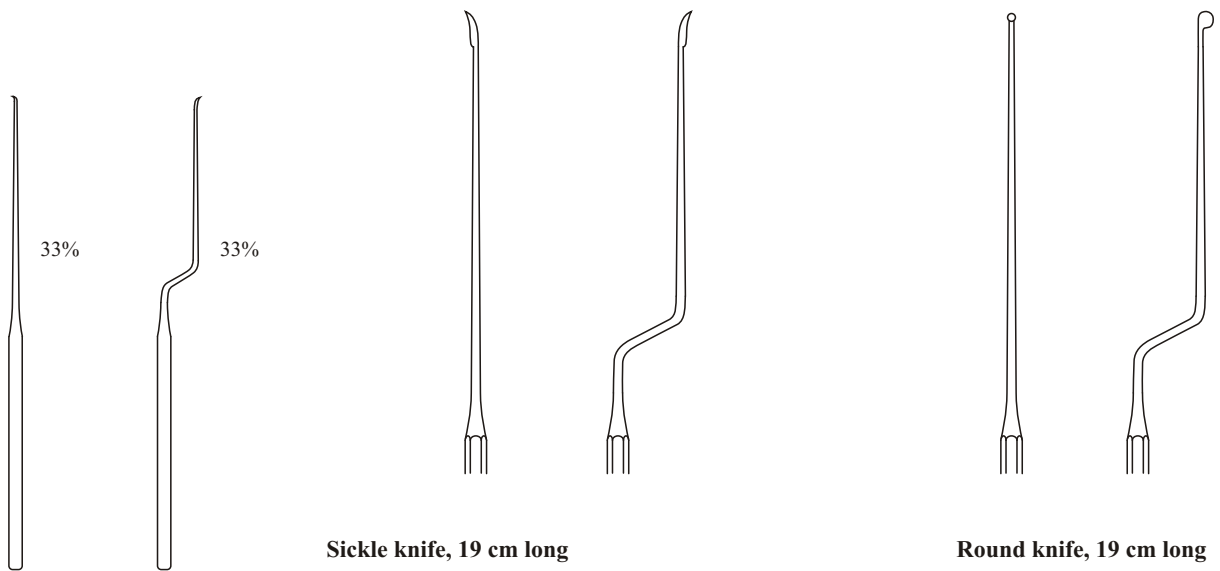
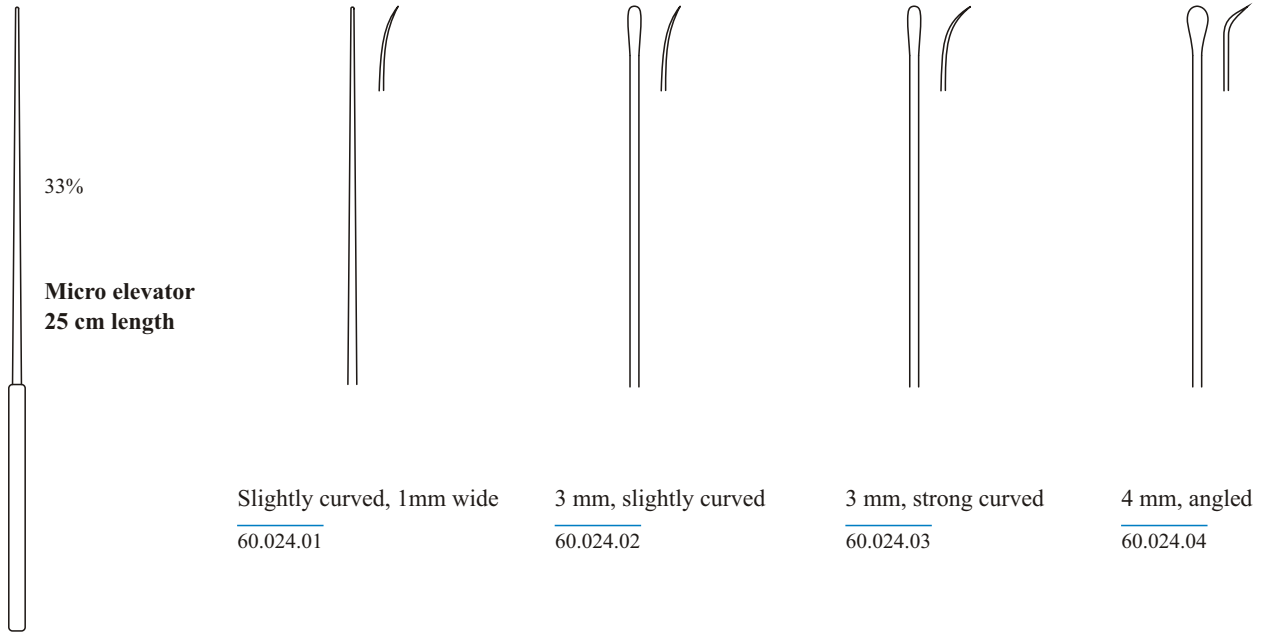


33%

Double-ended,
length 19 cm,
short curved 45°,
semi-sharp, diameter 2.2 mm,
long curved 90°,
sharp, diameter 2.7 mm

Double-ended Oval Curette

60.023.63

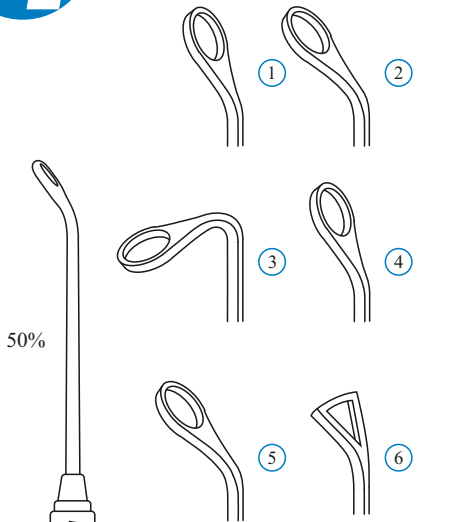


Ø	Shaft straight	Shaft bajonet
1,5 mm	60.024.20	60.024.21
2,0 mm	60.024.22	60.024.23

Straight	Bajonet
60.024.30	60.024.31

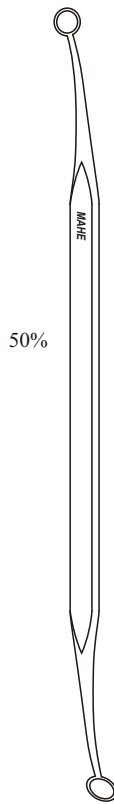


Curettes



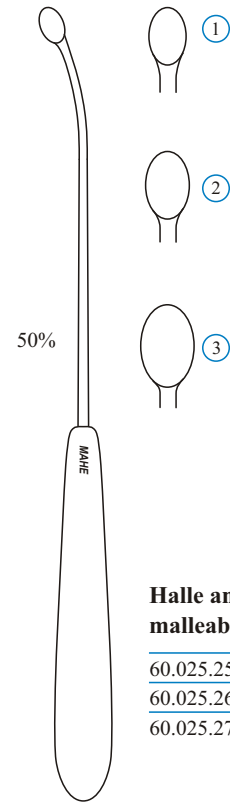
Coakley antrum curette, 17 cm

- 60.025.01 Fig. ①
- 60.025.02 Fig. ②
- 60.025.03 Fig. ③
- 60.025.04 Fig. ④
- 60.025.05 Fig. ⑤
- 60.025.06 Fig. ⑥



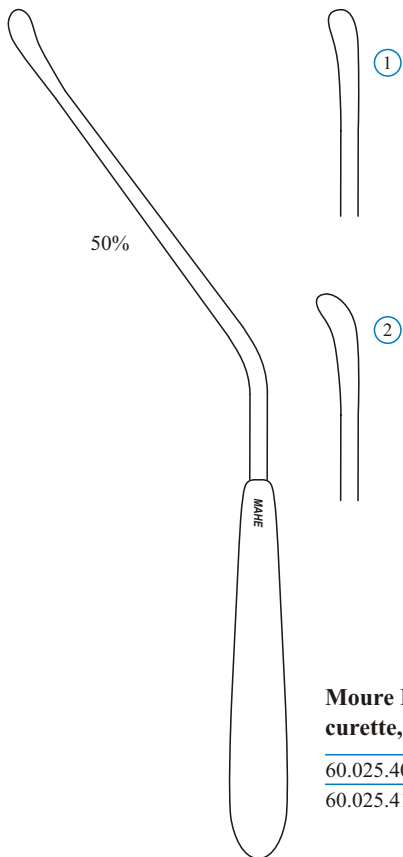
Faulkner antrum curette double-ended, 21 cm

60.025.20



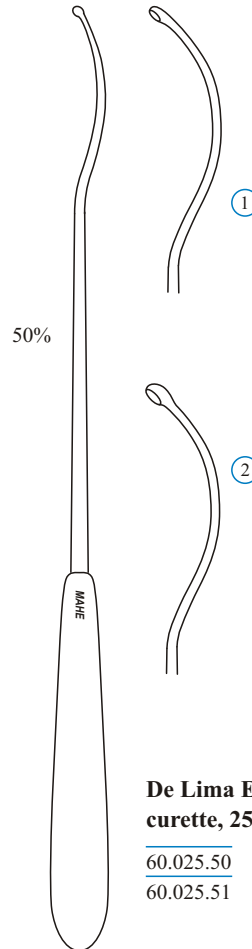
Halle antrum curette malleable, 21 cm

- 60.025.25 Fig. ①
- 60.025.26 Fig. ②
- 60.025.27 Fig. ③



Moure Ethmoid curette, 22, 5 cm

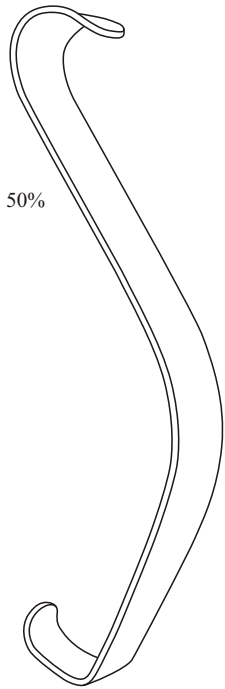
- 60.025.40 Fig. ①
- 60.025.41 Fig. ②



De Lima Ethmoid curette, 25 cm

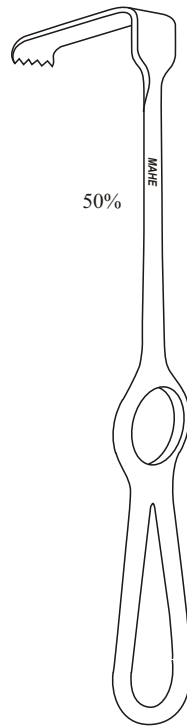
- 60.025.50 Fig. ①
- 60.025.51 Fig. ②

Retractors



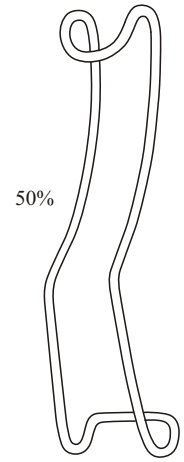
Hajek lip retractor, 18 cm

60.026.01



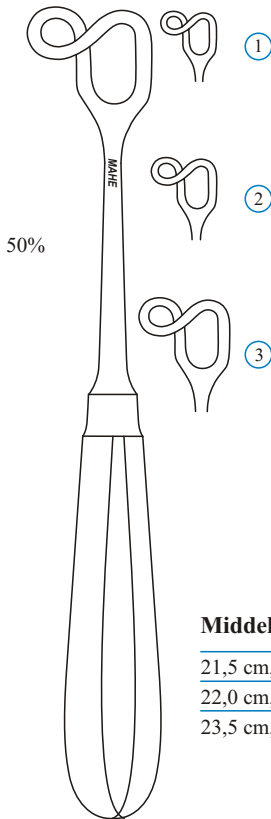
Bruenings-Brunk antrum retractor, with teeth, 19 cm

60.026.05



Sternberg lip retractor

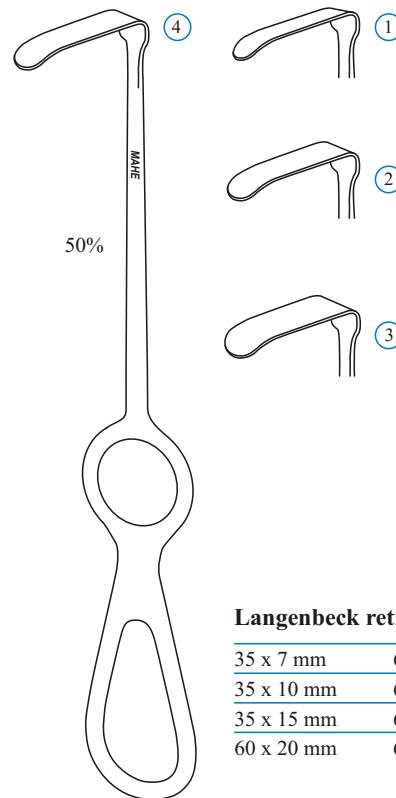
12 cm	60.026.08
14 cm	60.026.10
16 cm	60.026.12



Middeldorp retractor

21,5 cm, 14 x 17 mm	60.026.20
22,0 cm, 20 x 22 mm	60.026.21
23,5 cm, 26 x 30 mm	60.026.22

Fig. ①
Fig. ②
Fig. ③



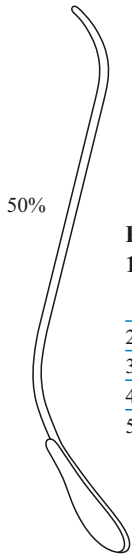
Langenbeck retractor, 21 cm

35 x 7 mm	60.026.30
35 x 10 mm	60.026.31
35 x 15 mm	60.026.32
60 x 20 mm	60.026.33

Fig. ①
Fig. ②
Fig. ③
Fig. ④

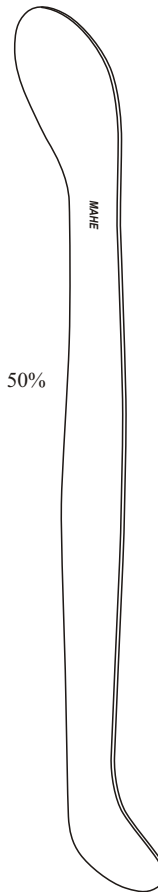


Bougies, Retractors and Rasps



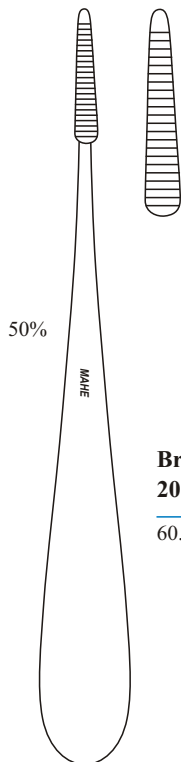
Ritter-Halle sinus frontal bougie
14,5 cm

Ø	
2,5 mm	60.027.01
3,0 mm	60.027.02
4,0 mm	60.027.03
5,0 mm	60.027.04



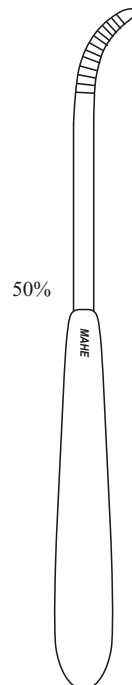
Orbital retractor
23,5 cm length

60.027.10



Brawley antrum rasp
20 cm, blunt

60.028.01



Wiener antrum rasp,
curved, with trocar tip, 18 cm

60.028.10

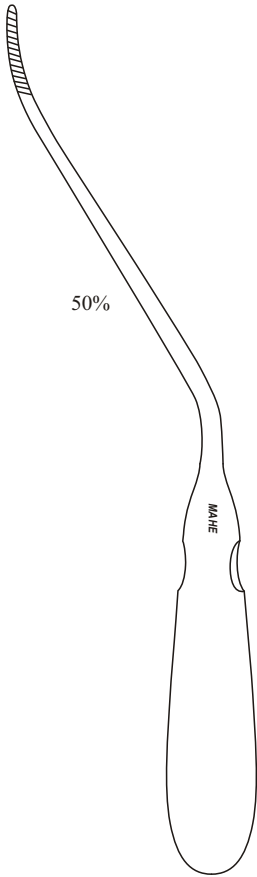
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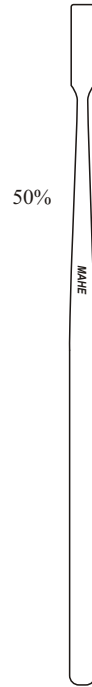
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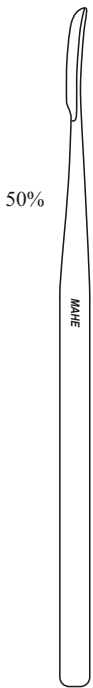
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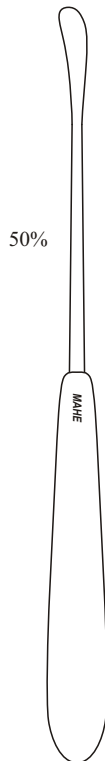
Watson-Williams antrum rasp
23 cm, blunt
60.028.15



West chisel
18 cm, 4 mm wide
60.029.10



West gouge
18 cm, 4 mm wide
60.029.30



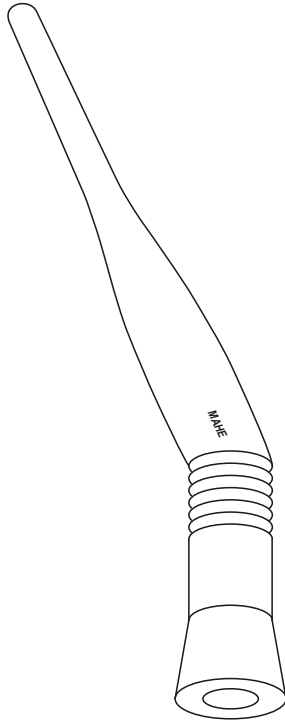
Sewall antrum elevator
19,5 cm
60.030.10



Freer elevator
double-ended, 20 cm
60.030.15



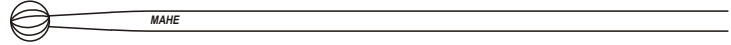
Burs



Handpiece, angled

60.040.00

Long slender shape, for use with straight shaft burs,
Ø 2,35 mm, length 9,5 cm



**Standard straight shaft burs, length 9,5 cm,
stainless set with 10 pieces, sizes 14 - 70**

60.041.00

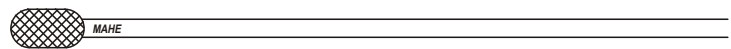
**Diamond straight shaft burs, length 9,5 cm,
stainless set with 10 pieces, sizes 14 - 70**

60.042.00



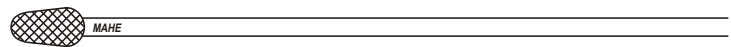
Size	Ø	Standard	Diamond
14 mm	1,4 mm	60.041.14	60.042.14
18 mm	1,8 mm	60.041.18	60.042.18
23 mm	2,3 mm	60.041.23	60.042.23
27 mm	2,7 mm	60.041.27	60.042.27
31 mm	3,1 mm	60.041.31	60.042.31
35 mm	3,5 mm	60.041.35	60.042.35
40 mm	4,0 mm	60.041.40	60.042.40
45 mm	4,5 mm	60.041.45	60.042.45
50 mm	5,0 mm	60.041.50	60.042.50
70 mm	7,0 mm	60.041.70	60.042.70

Our burs and trephines have blades running diagonal around the bur-head; this allows straight cutting



**Cutting bur, cylinder shape
straight shaft, length 9,5 cm, stainless**

Ø	
5,0 mm	60.043.50
7,0mm	60.043.70



**Cutting bur, "bud", straight shaft
length 9,5 cm, stainless, 5,0 mm Ø**

Ø	
5,0 mm	60.044.50
7,0 mm	60.044.70

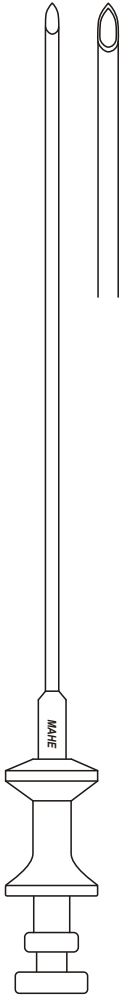
MAHE International, Inc. 468 Craighead Street Nashville, TN 37204 USA

SIN-16

06/2006

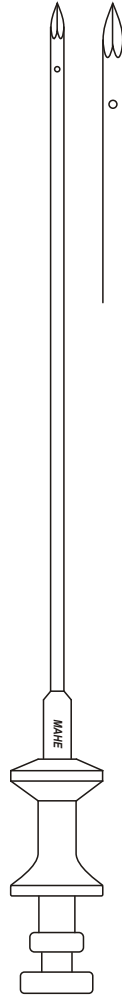
Website: MahelInternational.com

Toll Free (800) 294-7946 Phone (615) 269-7256 Fax (615) 269-4605 Email info@MahelInternational.com



**Lichtwitz antrum trocar needle,
working length 10 cm, outer-Ø 1,5 mm**

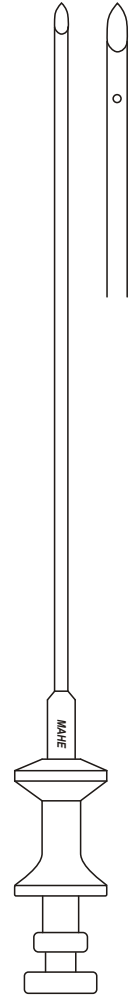
Outer-Ø	
1,5 mm	60.050.01
1,8 mm	60.050.02
2,0 mm	60.050.03



**Lichtwitz-v.Eicken
antrum trocar needle**

Outer-Ø	
1,5 mm	60.050.10
1,8 mm	60.050.11
2,0 mm	60.050.12

With trocar tip
and sleeve holes,
working length 10 cm



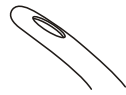
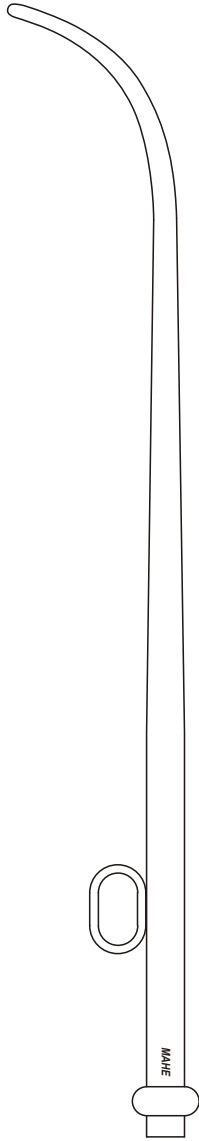
**Vogel
antrum trocar needle**

Outer-Ø	
1,5 mm	60.050.20
1,8 mm	60.050.21
2,0 mm	60.050.22

With closed tip and sleeve holes,
working length 10 cm



Cannula and Cotton Applicator



**Siebenmann antrum cannula
upward hole, 15 cm**

\varnothing	
1,5 mm	60.050.50
1,7 mm	60.050.52
2,0 mm	60.050.54
2,5 mm	60.050.56
3,0 mm	60.050.58



**Siebenmann antrum cannula
downward hole, 15 cm, sizes 1,5 - 3,0 mm \varnothing**

\varnothing	
1,5 mm	60.050.64
1,7 mm	60.050.66
2,0 mm	60.050.68
2,5 mm	60.050.70
3,0 mm	60.050.72



Silicone irrigation tube
60.050.80

Autoclavable, length 30 cm, complete with Luer-lock connectors on both ends



**Cotton applicator for anesthesia,
triangular serrated, diam. 0,9 mm 7,5 cm**
60.050.90

MAHE International, Inc. 468 Craighead Street Nashville, TN 37204 USA

Website: MahelInternational.com

SIN-18

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