



## BORESCOPIES

With the borescopes and fiberscopes we offer a variety of high-quality testing instruments from working diameter 0.35 mm. All borescopes and fiberscopes can be used for direct or indirect visual inspection.



For indirect visual inspection, please choose additionally the inspection system FlexiVision 100 with related components (from p. 10).



For direct visual inspection, select additionally a light source and a light guide (from p. 38).

### MICRO BORESCOPES micrendo®

- Flexible borescopes from 0.35 mm to 2.4 mm
- Rigid borescopes from 1.8 mm to 4.0 mm
- Wide angle objectives and side view versions
- 360° view possible with rotatable mirror tubes

### UNIVERSAL BORESCOPES

- Rigid borescopes from 4.0 mm according to modular principle:
  - Interchangeable objectives with different directions of view
  - Rotatable objective and mirror tubes for an all-round view

### FIBERSCOPES

- Flexible borescopes for access points over 3.4 mm in diameter
- Liquid-tight, temperature- and pressure resistant
- Deflectable tips
- Abrasion resistant tungsten braid

## Micro Borescopes

### micrendo® Borescopes and Rotatable Mirror Tubes



- Extremely thin borescopes starting at diameter 1.8 mm
- Good image quality
- Different fields of view

Item no.	Working Ø	Working length	Direction of view	Field of view
ME.18090.0035	1.8 mm	95 mm	0°	30°
ME.18155.0035	1.8 mm	160 mm	0°	30°
ME.27090.0035	2.7 mm	95 mm	0°	35°
ME.27185.0035	2.7 mm	185 mm	0°	35°

#### ROTATABLE MIRROR TUBES



- Mirror tubes for micrendo borescopes working diameter 1.8 mm and 2.7 mm
- Quick change of direction of view
- For all-round inspections by turning the mirror tube

Item no.	Working Ø	Working length	Direction of view	Color code
MS.20090.70	2.0 mm	95 mm	70°	green
MS.20090.90	2.0 mm	95 mm	90°	red
MS.20155.70	2.0 mm	160 mm	70°	green
MS.20155.90	2.0 mm	160 mm	90°	red
MSS.30090.70	3.0 mm	95 mm	70°	green
MSS.30090.90	3.0 mm	95 mm	90°	red
MSS.30185.70	3.0 mm	185 mm	70°	green
MSS.30185.90	3.0 mm	185 mm	90°	red

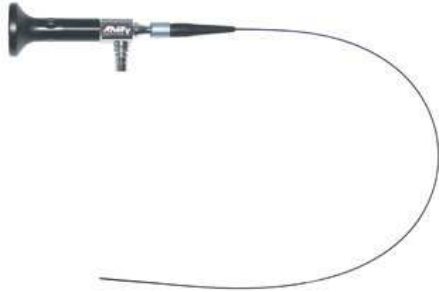
## Micro Borescopes

### micrendo® Borescopes Wide Angle



- Rigid borescope with rod lens system for excellent images
- Good overview in boreholes due to wide angle
- High resolution images in combination with the camera head and FlexiVision 100 (from p. 10)

Item no.	Working Ø	Working length	Direction of view	Field of view
ME.18090.0080	1.8 mm	95 mm	0°	80°
ME.18155.0080	1.8 mm	160 mm	0°	80°
ME.27120.0085	2.7 mm	110 mm	0°	95°
ME.27120.3085	2.7 mm	110 mm	30°	85°
ME.27120.7085	2.7 mm	110 mm	70°	80°
ME.27210.0085	2.7 mm	187 mm	0°	95°
ME.27210.3085	2.7 mm	187 mm	30°	85°
ME.27210.7085	2.7 mm	187 mm	70°	80°
ME.40175.00100	4.0 mm	175 mm	0°	100°
ME.40175.30100	4.0 mm	175 mm	30°	100°
ME.40175.70100	4.0 mm	175 mm	70°	100°



- Flexible borescope for fine boreholes in the lower millimeter range
- Fiber optic image transmission
- Different working lengths

Item no.	Working Ø	Working length	Direction of view	Field of view	Image bundle (pixels)
MO.0350500.0070	0.35 mm	500 mm	0°	70°	3,000
MO.050500.0070	0.5 mm	500 mm	0°	70°	3,000
MO.080500.0070	0.8 mm	500 mm	0°	70°	6,000
MO.100500.0070	1.0 mm	500 mm	0°	70°	6,000
MO.140500.0085	1.4 mm	500 mm	0°	85°	17,000
MO.141000.0085	1.4 mm	1,000 mm	0°	85°	17,000
MO.190500.0085	1.9 mm	500 mm	0°	85°	30,000
MO.191000.0085	1.9 mm	1,000 mm	0°	85°	30,000
MO.240500.0085	2.4 mm	500 mm	0°	85°	30,000
MO.241000.0085	2.4 mm	1,000 mm	0°	85°	30,000

Fiberscopes in other lengths or with side view (90°) on request.

The modular principle

The FlexiLux Universal borescope is a versatile all-rounder that can be adapted to your needs. With only one basic device, different directions of view can be achieved using interchangeable objectives, objective tubes and mirror tubes.



**Interchangeable objectives**

The interchangeable objectives are screwed onto the tip of the borescope, allowing the direction of view to be modified without increasing the outer diameter of the borescope.



**Rotatable mirror tubes**

Mirror tubes allow the direction of view to be changed quickly. The tube is simply attached to the borescope with interchangeable objective. The tube is rotated to perform a 360° inspection.



**Rotatable objective tubes**

The objective tube offers the same advantages as the mirror tube plus the added advantage of a closed tip, making it oil resistant and watertight.

# FLEXILUX Universal Borescopes

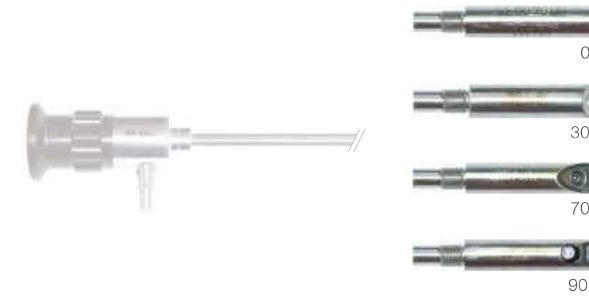


- Modular borescope:  
Exchange of objectives, objective- and mirror tubes
- Very good image quality due to rod lens system
- Water- and oil-tight when using objective tubes
- For a functional borescope, please select an interchangeable objective or an objective tube

Item no.	Working Ø	Working length
UE.04145	4.0 mm	145 mm
UE.04270	4.0 mm	270 mm
FE.55250	5.5 mm	250 mm
FE.55355	5.5 mm	355 mm
FE.08250	8.0 mm	250 mm
FE.08355	8.0 mm	355 mm
FE.08455	8.0 mm	455 mm

# FLEXILUX Universal Borescopes

## INTERCHANGEABLE OBJECTIVES



- For FlexiLux Universal Borescopes
- Different directions of view
- Easy to screw on and off

Ø Universal borescope	Item no. interchangeable objective	Direction of view	Field of view	Objective length
4.0 mm	UO.0400.35	0°	35°	16 mm
4.0 mm	UO.0400.80	0°	80°	16 mm
4.0 mm	UO.0430.80	30°	80°	17 mm
4.0 mm	UO.0470.80	70°	80°	17 mm
4.0 mm	UO.0490.80	90°	80°	17 mm
5.5 mm	WO.5500.40	0°	40°	25 mm
5.5 mm	WO.5500.85	0°	85°	22 mm
5.5 mm	WO.5545.45	45°	45°	17 mm
5.5 mm	WO.5590.45	90°	45°	21 mm
8.0 mm	WO.0800.40	0°	40°	25 mm
8.0 mm	WO.0800.85	0°	85°	23 mm
8.0 mm	WO.0845.60	45°	60°	27 mm
8.0 mm	WO.0890.60	90°	60°	26 mm

# FLEXILUX Universal Borescopes

## ROTATABLE MIRROR TUBES



- Accessories for the FlexiLux Universal Borescope with integrated mirrors to change the direction of view
- Easy to attach to the endoscope shaft
- 360° inspection by turning the mirror tube
- No integrated objective. Only applicable in conjunction with following interchangeable objectives:  
 UO.0400.35 (Ø 4.0 mm)  
 WO.5500.40 (Ø 5.5 mm)  
 WO.0800.40 (Ø 8.0 mm)

Ø Universal borescopes	Item no. mirror tubes	Working Ø	Working length	Direction of view	Color code
4.0 mm	US.04160.70	4.4 mm	161 mm	70°	green
4.0 mm	US.04160.90	4.4 mm	161 mm	90°	red
4.0 mm	US.04160.110	4.4 mm	161 mm	110°	yellow
4.0 mm	US.04285.70	4.4 mm	286 mm	70°	green
4.0 mm	US.04285.90	4.4 mm	286 mm	90°	red
4.0 mm	US.04285.110	4.4 mm	286 mm	110°	yellow
5.5 mm	FS.55275.70	5.9 mm	275 mm	70°	green
5.5 mm	FS.55275.90	5.9 mm	275 mm	90°	red
5.5 mm	FS.55380.70	5.9 mm	380 mm	70°	green
5.5 mm	FS.55380.90	5.9 mm	380 mm	90°	red
8.0 mm	FS.08275.70	8.5 mm	275 mm	70°	green
8.0 mm	FS.08275.90	8.5 mm	275 mm	90°	red
8.0 mm	FS.08380.70	8.5 mm	380 mm	70°	green
8.0 mm	FS.08380.90	8.5 mm	380 mm	90°	red
8.0 mm	FS.08480.70	8.5 mm	480 mm	70°	green
8.0 mm	FS.08480.90	8.5 mm	480 mm	90°	red

# FLEXILUX Universal Borescopes

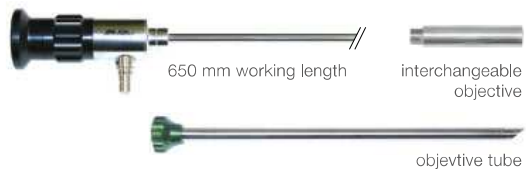
## ROTATABLE OBJECTIVE TUBES



- Accessories for the FlexiLux Universal Borescope with integrated objective to change the direction of view
- Easy to attach to the endoscope shaft
- Water- and oil-tight
- 360° inspection by turning the objective tube

Ø Universal borescope	Item no. objective tube	Working Ø	Working length	Direction of view	Field of view	Color code
4.0 mm	UD.04145.0080	4.4 mm	153 mm	0°	80°	blue
4.0 mm	UD.04145.4580	4.4 mm	153 mm	45°	80°	green
4.0 mm	UD.04145.7080	4.4 mm	153 mm	70°	80°	green
4.0 mm	UD.04145.9080	4.4 mm	153 mm	90°	80°	red
4.0 mm	UD.04270.0080	4.4 mm	278 mm	0°	80°	blue
4.0 mm	UD.04270.4580	4.4 mm	278 mm	45°	80°	green
4.0 mm	UD.04270.7080	4.4 mm	278 mm	70°	80°	green
4.0 mm	UD.04270.9080	4.4 mm	278 mm	90°	80°	red
5.5 mm	FD.55250.4545	5.9 mm	250 mm	45°	45°	green
5.5 mm	FD.55250.9045	5.9 mm	250 mm	90°	45°	red
5.5 mm	FD.55355.4545	5.9 mm	355 mm	45°	45°	green
5.5 mm	FD.55355.9045	5.9 mm	355 mm	90°	45°	red
8.0 mm	FD.08250.9060	8.5 mm	250 mm	90°	60°	red
8.0 mm	FD.08355.9060	8.5 mm	355 mm	90°	60°	red
8.0 mm	FD.08455.9060	8.5 mm	455 mm	90°	60°	red

## FLEXILUX Universal Borescopes – Long Version

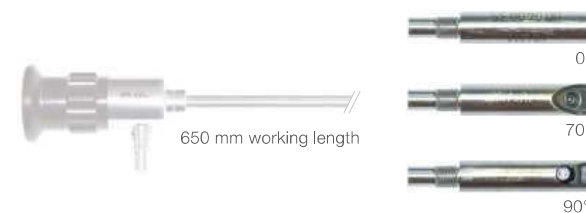


- Modular borescope: exchange of objectives and objective tubes
- Very long borescope shaft
- Water- and oil-tight when using objective tubes
- For a functional borescope, please select an interchangeable objective or an objective tube

Item no.	Working Ø	Working length
FE.04650	4.0 mm	650 mm

## FLEXILUX Universal Borescopes – Long Version

### INTERCHANGEABLE OBJECTIVES



- Different directions of view
- Easy to screw on and off
- The diameter of the borescope will not be enlarged by the objective

Ø Universal borescope	Item no.	Direction of view	Field of view	Objective length
4.0 mm	WO.0400.85	0°	85°	13 mm
4.0 mm	WO.0470.85	70°	85°	16 mm
4.0 mm	WO.0490.85	90°	65°	13 mm

### INTERCHANGEABLE OBJECTIVE TUBE



- Easy to attach to the endoscope shaft
- Water- and oil-tight
- 360° inspection by turning the objective tube

Item no.	Working Ø	Working length	Direction of view	Field of view	Color code
FD.04650.0085	4.4 mm	650 mm	0°	85°	blue
FD.04650.7085	4.4 mm	650 mm	70°	85°	green
FD.04650.9085	4.4 mm	650 mm	90°	85°	red

## FLEXILUX Universal Fiberscopes



- Two-way deflecting tip
- Stabilizing tungsten braid

Item no.	Working Ø	Working length	Deflection	Direction of view	Field of view	Image bundle (pixels)
34030.0070.PV2X.W	3.4 mm	300 mm	2 x 140°	0°	70°	7,000 glass
34100.0070.PV2X.W	3.4 mm	1,000 mm	2 x 140°	0°	70°	7,000 glass

Light guide, transport case and cleaning material included.