

# HIPP Endoskop Service GmbH

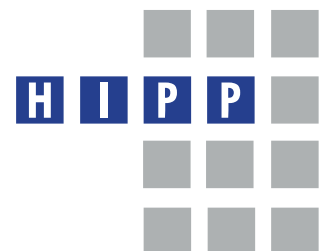
>> *your requirements are our aims.*



## HIPP Mirror Tube Borescope Series HB / FM

Technical product information

MADE IN GERMANY



# HIPP Endoscope

>> *for industrial application.*



## ■ Our vision – giving the gift of time to our customers

The optimum orientation towards our customers with their needs and requirements constitutes a constant challenge for us to make a small but valuable contribution in facilitating their daily routine. Due to a service portfolio tailored to suit the specific needs of the market and compatibility with other well-known borescope manufacturers, Hipp has evolved into one of the leading companies in the field of industrial endoscopy. We might not be a leader in terms of company size or volumes of systems installed, but certainly we are a leader in manufacturing a well-selected product range of customized borescopes.

Hipp Endoskop Service GmbH was founded in July 1996 by Alexander and Frank Hipp. As integrated service providers and manufacturers we stand for traditional value structures. Our activities have always been focussed on the development, maintenance and manufacture of all types of industrial borescopes. Thanks to our extensive know-how along with the strong personal commitment of all our employees, creativity, team spirit as well as the stability and permanence of a family-owned business we guarantee the highest level of quality – "Made in Germany".

## Hipp Service – customer orientation is our benchmark

Of course, customer care and after-sales service are our first priority. Spare parts supply is guaranteed for 10 years. Short repair times in the event of damage (14 days) as well as quick and uncomplicated processing are part of our standards.

# Hipp Mirror Tube Borescope Series HB/FM

> ?!with handle!)| C\*



## ■ HIPP Mirror Tube Endoscope Series HB/FM – maximum benefit due to high user-friendliness

HIPP Mirror Tube Endoscope Series HB / FM are used in a wide range of industries covering various applications including:

### Plant Engineering

Testing of pipes / pipelines in the chemical, pharmaceutical and food industry

### Automotive

Testing of engines and engine parts such as valves, pistons and other wearing parts

### Steel and Aluminum Foundries

Visual inspection of passage channels, cross-holes as well as inner surfaces, sinter, sand and casting residues

### Machining industry

Visual inspection of all inaccessible spots (drilling, blind holes, cross-holes, pocket holes, etc.) without component destruction

### HIPP Mirror Tube Endoscope Series HB/FM are characterized by:

- Replaceable mirror tubes with different viewing directions (70°, 90°, 110°)
- Four different viewing directions with only one endoscope, mirror tubes rotatable by 360°
- Application possible under extreme conditions, e.g. in liquids and at temperatures from - 10° C to + 80 °C
- Optimum image quality thanks to focussing in the close and far range
- Easy integration of HIPP Mirror Tube Endoscopes into existing systems (DIN eye piece, ACMI light connection)
- The use of sapphire glass increases both the application spectrum and the lifetime
- Compliance with all requirements of digital image processing due to a high-resolution optical system
- Protection class IP 67 for the shaft/mirror tube and IP 65 for all other endoscope parts

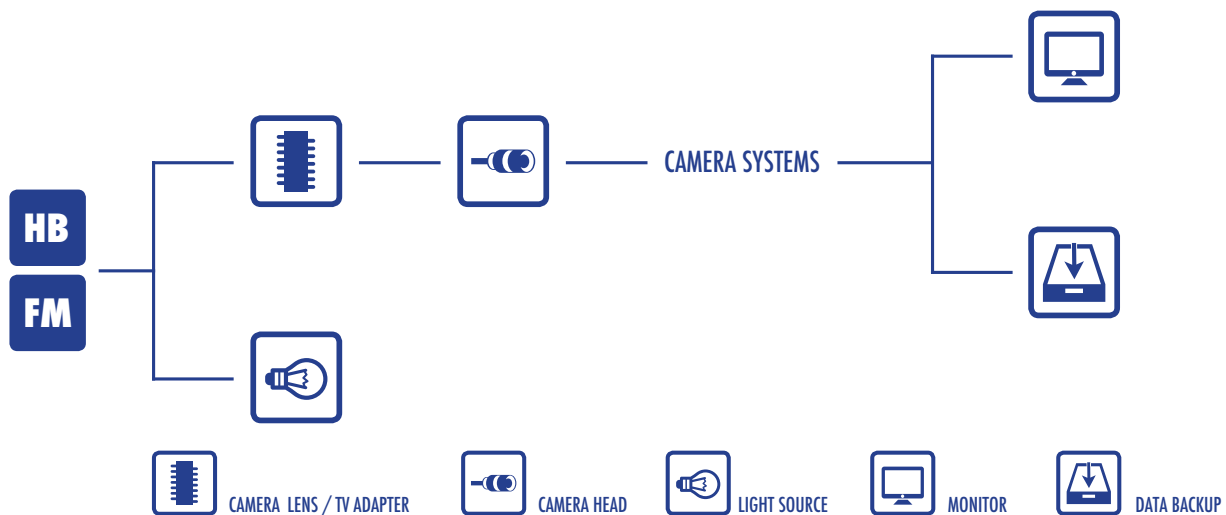
# Image processing

>> modular system.



## Modular System

HIPP camera systems and light sources are compatible with all HIPP endoscope series and partly also with other manufactures.



Information about our wide range of accessories such as image processing systems (camera adapters, cameras, monitors), cold light sources and optical fibers as well as the compatibility with other manufactures can be found in additional product informations.

# HIPP Mirror Tube Endoscope Series HB/FM

??!Gfawst!



## Productprofile

**HB**

Mirror tube endoscope with interchangeable mirror tubes, with/without handle. Variable useful lengths and diameters are available. Made of stainless steel - "Made in Germany".

**FM**



AVAILABLE MIRROR TUBE DIAMETERS

2.3mm / 3.2mm / 4.8mm / 6.6mm / 8.8mm / 11mm



AVAILABLE ENDOSCOPE DIAMETERS

1,9mm / 2,8mm / 4,0mm / 6,0mm / 8,0mm / 10mm



USEFUL LENGTH MIRROR TUBE from 248 mm to 1050 mm



FOCUSABLE 1 mm - ∞



VIEW DIRECTION MIRROR TUBES

70° / 90° / 110°



VIEW DIRECTION ENDOSCOPES

0°



OPENING ANGLE ( FIELD OF VIEW)

40°

# HIPP Spiegelrohrendoskop Serie HB

> ? [Was ist ein Spiegelrohr?](#)



## ■ Mirror Tube Diameter: 4.8 mm to 11.0 mm

Ø [mm] without / with mirror tube	Effective length [mm]	Viewing Direction	Aperture	Item-No.
4.0 / 4.8	248	0°	40°	HT-0258-04-HB-d
4.0 / 4.8	385	0°	40°	HT-0385-04-HB-d
6.0 / 6.6	250	0°	40°	HT-0258-06-HB-d
6.0 / 6.6	385	0°	40°	HT-0385-06-HB-d
6.0 / 6.6	490	0°	40°	HT-0490-06-HB-d
6.0 / 6.6	835	0°	40°	HT-0835-06-HB-d
8.0 / 8.8	250	0°	40°	HT-0258-08-HB-d
8.0 / 8.8	385	0°	40°	HT-0385-08-HB-d
8.0 / 8.8	555	0°	40°	HT-0490-08-HB-d
8.0 / 8.8	835	0°	40°	HT-0835-08-HB-d
10.0 / 11.0	800	0°	40°	HT-0800-10-HB-d
10.0 / 11.0	1050	0°	40°	HT-01050-10-HB-d

## ■ Note

The mirror tubes need to be ordered separately.

### Mirror Tubes

View direction 70°



View direction: 90°



View direction: 110°



# HIPP Mirror Tube Borescope Series HB/FM

>> variants overview.



## ■ Mirror Tube Diameter: 2.4 mm to 4.8 mm

Ø [mm] without / with mirror tube	Effective length [mm]	Viewing Direction	Aperture	Item-No.
1.9 / 2.4	110	0°	30°	HT-0110-19-FM-d
2.8 / 3.2	110	0°	30°	HT-0110-02-FM-d
2.8 / 3.2	175	0°	30°	HT-0175-02-FM-d
2.8 / 3.2	300	0°	30°	HT-0300-02-FM-d
4.0 / 4.8	175	0°	35°	HT-0175-04-FM-d
4.0 / 4.8	300	0°	35°	HT-0300-04-FM-d

## ■ Note

The mirror tubes need to be ordered separately.

### Mirror Tubes

View direction 70°



View direction: 90°



View direction: 110°



# HIPP Endoskop Service GmbH

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## Your partner in industrial endoscopy.

Hipp Endoskop Service GmbH is certified to DIN EN ISO 9001:2015

Certificate registration-No. 20100213013252

Online Verification



[www.tuv.at/certcheck](http://www.tuv.at/certcheck)



**TÜV**  
AUSTRIA



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