

# HIPP Endoskop Service GmbH

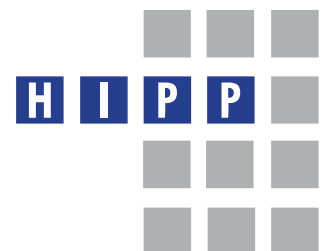
>> *your requirements are our aims.*



## HIPP Boroscope HB Series

Technical Product Information

MADE IN GERMANY



# HIPP Borescopes

>> *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 Borescope Series HB

>> with handle, rotatable shank.



■ HIPP Borescope Series HB – maximum benefit due to high user-friendliness

HIPP Borescopes Series HB 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 Borescopes Series HB are characterized by:

- Optimum image quality thanks to focussing in the close and far range
- All-round view due to a shank tube rotatable by 350°
- Easy integration of HIPP Borescopes into existing systems due to compatibility
- The use of sapphire glass increases both the application spectrum and the lifetime
- Suited for extreme conditions in liquids and at temperatures from - 10°C to + 100° C
- Compliance with all requirements of digital image processing due to a high-resolution optical system
- Protection class IP 67 for the shank tube and IP 65 for all other borescope parts
- Special variants with UV
- Detachable handle



# HIPP Borescope Series HB

>> *features.*



## Product Profile

**HB**

Rigid borescope, with handle, with a shank rotatable by 350°. Variable working lengths, diameters and viewing directions are available (special variants). Made from stainless steel – „Made in Germany“.



FOCUSABLE 1 mm - ∞



USEFUL LENGTH (VARIES, DEPENDING ON THE PIPE DIAMETER)  
120 mm bis 1.200 mm (SPECIAL LENGTH)



ROTATABLE SHANK 350 °



LINE OF SIGHT (COLORED MARKING ON THE SHANK)  
(0° / 30° / 70° / 90°)



AVAILABLE SHANK DIAMETER  
2.8 mm / 4.0 mm / 6.0 mm / 8.0 mm / 10.0 mm



APERTURE (FIELD OF VIEW)  
50° / 70°



UV-LIGHT

## Options



(“a”)  
FIXED SHANK



(“c”)  
ROTATABLE RUBBER FUNNEL



+15° (“i”)  
WIDE-ANGLE LENS

## Note

HIPP Borescopes Series HB have a standard aperture of 70°. With a line of sight of 90°, the aperture is always 50°. The option i = wide angle increases the aperture by 15°.

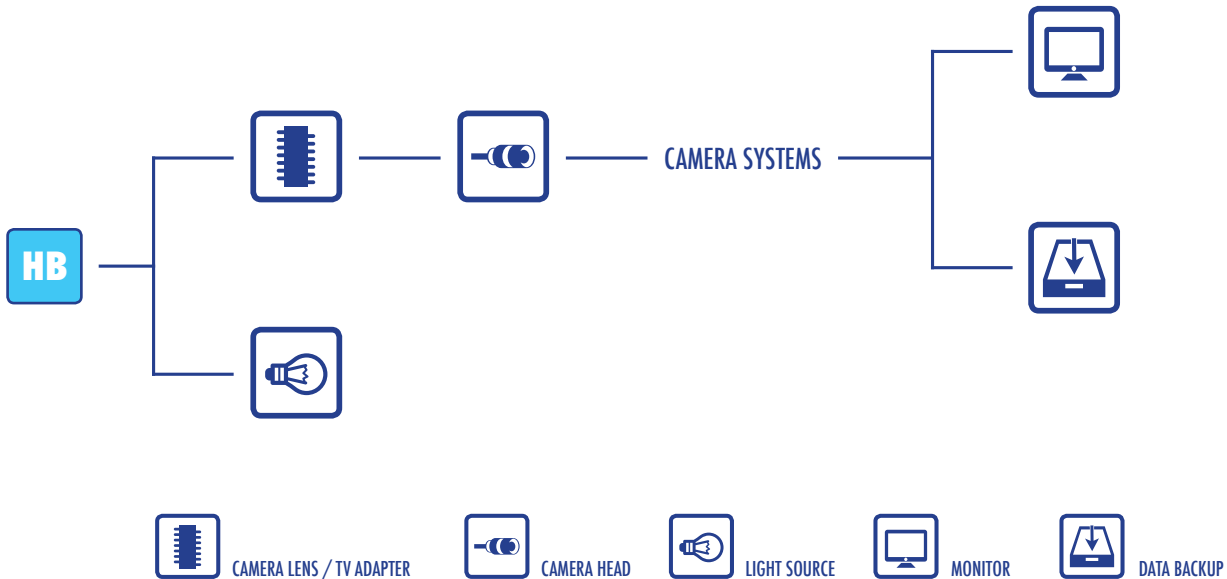
# HIPP Borescope Series HB

>> modular system.



## Modular System

HIPP Borescopes Series HB are compatible to various camera systems and light sources (sometimes also from other manufacturers).



## Accessories

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 manufacturers can be found in additional product informations.



# HIPP Borescope Series HB

>> *Configurator.*

## Borescope-Configurator

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The HIPP Borescope-Configurator will assist you to choose the borescope you are interested in.

1. Please determine the shank diameter. This should be much smaller than the hole:

2. Please specify the required effective length:

3. Please choose the viewing direction you want: 0° / 30° / 70° / 90°:

4. Please select your desired options:

Fixed shank ("a")

Rotatable rubber funnel ("c")

Wide-angle lens ("i")

## Note

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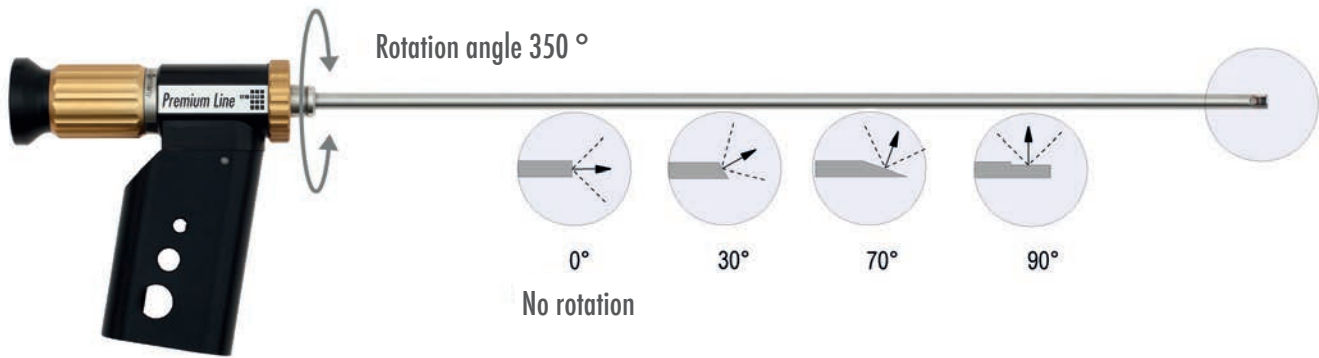
HIPP Borescopes Series HB have a standard aperture of 70°. With a line of sight of 90°, the aperture is always 50°. The option i = wide angle increases the aperture by 15°.



For more information, visit our website.

# HIPP Borescope Series HB

>> variants overview.



## Shank Tube Diameter: 2.8 mm to 4.0 mm

Ø [mm]	Effective length [mm]	Viewing Direction	Aperture	Options	Item-No.
2.8	115	0°	70°	- c	HT-0120-02-HB
2.8	115	30°	70°	- a, - c	HT-3120-02-HB
2.8	240	0°	70°	- c	HT-0240-02-HB
2.8	240	30°	70°	- a, - c	HT-3240-02-HB
4.0	130	0°	70°	- c, - i	HT-0130-04-HB
4.0	130	30°	70°	- a, - c, - i	HT-3130-04-HB
4.0	130	70°	70°	- a, - c, - i	HT-7130-04-HB
4.0	258	0°	70°	- c, - i	HT-0258-04-HB
4.0	258	30°	70°	- a, - c, - i	HT-3258-04-HB
4.0	258	70°	70°	- a, - c, - i	HT-7258-04-HB
4.0	265	90°	50°	- a, - c, - i	HT-9260-04-HB
4.0	385	0°	70°	- c, - i	HT-0385-04-HB
4.0	385	30°	70°	- a, - c, - i	HT-3385-04-HB
4.0	385	70°	70°	- a, - c, - i	HT-7385-04-HB
4.0	485	0°	70°	- c, - i	HT-0485-04-HB
4.0	485	30°	70°	- a, - c, - i	HT-3485-04-HB
4.0	485	70°	70°	- a, - c, - i	HT-7485-04-HB

Please note the following options for HIPP Borescope Series HB.

## Options



("a")  
FIXED SHANK



("c")  
ROTATABLE RUBBER FUNNEL



("i")  
WIDE-ANGLE LENS

# HIPP Borescope Series HB

>> *variants overview.*

## Shank Tube Diameter: 6.0 mm to 6.5 mm

Ø [mm]	Effective length [mm]	Viewing Direction	Aperture	Options	Item-No.
6.0	140	0°	70°	- c, - i	HT-0140-06-HB
6.0	140	30°	70°	- a, - c, - i	HT-3140-06-HB
6.0	140	70°	70°	- a, - c, - i	HT-7140-06-HB
6.0	210	0°	70°	- c, - i	HT-0210-06-HB
6.0	210	30°	70°	- a, - c, - i	HT-3210-06-HB
6.0	210	70°	70°	- a, - c, - i	HT-7210-06-HB
6.0	265	90°	70°	- a, - c, - i	HT-9265-06-HB
6.0	340	90°	50°	- a, - c, - i	HT-9340-06-HB
6.0	385	0°	70°	- c, - i	HT-0385-06-HB
6.0	385	30°	70°	- a, - c, - i	HT-3385-06-HB
6.0	385	70°	70°	- a, - c, - i	HT-7385-06-HB
6.0	410	90°	50°	- a, - c, - i	HT-9410-06-HB
6.0	450	0°	70°	- c, - i	HT-0450-06-HB
6.0	450	30°	70°	- a, - c, - i	HT-3450-06-HB
6.0	450	70°	70°	- a, - c, - i	HT-7450-06-HB
6.0	450	90°	50°	- a, - c, - i	HT-9450-06-HB
6.0	560	90°	50°	- a, - c, - i	HT-9560-06-HB
6.0	640	0°	70°	- c, - i	HT-0640-06-HB
6.0	640	30°	70°	- a, - c, - i	HT-3640-06-HB
6.0	640	70°	70°	- a, - c, - i	HT-7640-06-HB
6.0	760	90°	50°	- a, - c, - i	HT-9760-06-HB
6.0	860	0°	70°	- c, - i	HT-0860-06-HB
6.0	860	30°	70°	- a, - c, - i	HT-3860-06-HB
6.0	860	70°	70°	- a, - c, - i	HT-7860-06-HB
6.5	340	90°	50°	- a, - c, - i	HT-9340-65-HB

Please note the following options for HIPP Borescope Series HB.

### Options



("a")  
FIXED SHANK



("c")  
ROTATABLE RUBBER FUNNEL



+15° ("i")  
WIDE-ANGLE LENS



# HIPP Borescope Series HB

>> variants overview.

## Shank Tube Diameter: 8.0 mm

Ø [mm]	Effective length [mm]	Viewing Direction	Aperture	Options	Item-No.
8.0	120	0°	70°	- c, - i	HT-0120-08-HB
8.0	120	30°	70°	- a, - c, - i	HT-3120-08-HB
8.0	120	70°	70°	- a, - c, - i	HT-7120-08-HB
8.0	210	0°	70°	- c, - i	HT-0210-08-HB
8.0	210	30°	70°	- a, - c, - i	HT-3210-08-HB
8.0	210	70°	70°	- a, - c, - i	HT-7210-08-HB
8.0	340	90°	50°	- a, - c, - i	HT-9340-08-HB
8.0	385	0°	70°	- c, - i	HT-0385-08-HB
8.0	385	30°	70°	- a, - c, - i	HT-3385-08-HB
8.0	385	70°	70°	- a, - c, - i	HT-7385-08-HB
8.0	410	90°	50°	- a, - c, - i	HT-9410-08-HB
8.0	450	0°	70°	- c, - i	HT-0450-08-HB
8.0	450	30°	70°	- a, - c, - i	HT-3450-08-HB
8.0	450	70°	70°	- a, - c, - i	HT-7450-08-HB
8.0	560	90°	50°	- a, - c, - i	HT-9560-08-HB
8.0	640	30°	70°	- a, - c, - i	HT-3640-08-HB
8.0	640	70°	70°	- a, - c, - i	HT-7640-08-HB
8.0	650	0°	70°	- c, - i	HT-0650-08-HB
8.0	860	0°	70°	- c, - i	HT-0860-08-HB
8.0	860	30°	70°	- a, - c, - i	HT-3860-08-HB
8.0	860	70°	70°	- a, - c, - i	HT-7860-08-HB
8.0	895	90°	50°	- a, - c, - i	HT-90895-08-HB
8.0	1050	0°	70°	- c, - i	HT-01100-08-HB
8.0	1200	90°	50°	- a, - c, - i	HT-91200-08-HB

Please note the following options for HIPP Borescope Series HB.

### Options



("a")  
FIXED SHANK



("c")  
ROTATABLE RUBBER FUNNEL



("i")  
WIDE-ANGLE LENS



# HIPP Borescope Series HB

>> *variants overview.*

## Shank Tube Diameter: 10.0 mm

Ø [mm]	Effective length [mm]	Viewing Direction	Aperture	Options	Item-No.
10.0	280	0°	70°	- c, - i	HT-0280-10-HB
10.0	280	30°	70°	- a, - c, - i	HT-3280-10-HB
10.0	360	90°	50°	- a, - c, - i	HT-9360-10-HB
10.0	440	90°	50°	- a, - c, - i	HT-9440-10-HB
10.0	460	0°	70°	- c, - i	HT-0460-10-HB
10.0	560	90°	50°	- a, - c, - i	HT-9560-10-HB
10.0	680	90°	50°	- a, - c, - i	HT-9680-10-HB
10.0	1050	0°	70°	- c, - i	HT-01050-10-HB
10.0	1440	90°	50°	- a, - c, - i	HT-91500-10-HB

Please note the following options for HIPP Borescope Series HB.

### Options



("a")

FIXED SHANK



("c")

ROTATABLE RUBBER FUNNEL



+15°

("i")

WIDE-ANGLE LENS

# HIPP Borescope Series HB

>> *variants overview.*

## UV variants with rotatable shank and handle

Ø [mm]	Effective length [mm]	Viewing Direction	Aperture	Item-No.
4.0	130	30°	70°	HT-3130-04-HB-e
4.0	130	70°	70°	HT-7130-04-HB-e
6.0	340	90°	50°	HT-9340-06-HB-e
10.0	440	90°	50°	HT-9440-10-HB-e

Options for UV variants not available.

Your Notes

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# HIPP Endoskop Service GmbH

>> *your requirements are our aims.*



## HIPP Borescope Series HB

### Technical Product Information



HIPP Endoskop Service GmbH  
Glottertalstrasse 10  
79108 Freiburg / Germany  
Telephone: +49 (0) 761 / 52800  
Telefax: +49 (0) 761 / 52855  
E-Mail: [info@hipp-es.com](mailto:info@hipp-es.com)  
Internet: [www.hipp-es.com](http://www.hipp-es.com)

