



Arthroscopy

 **MCC Medical**

Ultimate precision
for our arthroscopic
instruments

Arthroscopy



Since the late 90's, MC Medizintechnik Export, located in southern Germany, has provided to prominent medical distributors of products such as implants, prostheses, instrumentation and equipment for general and orthopedic surgery among others. MCC Medical is a registered trademark of MC Medizintechnik Export. With this brand we design, manufacture and sell instruments and medical equipment. Our products are the result of responsible bio-medical research and production processes and quality based on the most advanced global standards applicable to medical technology. All the employees that make our company have a very clear goal. Being leaders in the provision of surgical instruments and medical equipment of the highest international level. We develop instruments that allow greater security, reliability and comfort of surgery. For this reason not only offer stainless steel instruments, but also in titanium. There are lighter and less tiring for surgeries that extend over time.

For more than 45 years:

Quality and Safety
(ISO 9001:2000 EN ISO 13485:2003;
Annex II, section 3 of the directive
93/42/EEC)

Know How and Innovation

Technology and Precision

Service and Flexibility

Our Products:

Instruments for MIS
(Laparoscopy, Arthroscopy, Urology)

Endoscopy units

Electro surgery and accessories

Plastic surgery

Titanium-implant-systems for maxillo
facial as well as hand- and radius
surgery and mandibular reconstruction

Scissors and Micro-Scissors,
also with TC-inserts or "super cut"

Instruments for general surgery

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Technische Änderungen
vorbehalten.

*We reserve the right
to make alterations.*

Griffmodelle
Handles



H62-XXX-XX, Fig. 1



H60-XXX-XX, Fig. 3



H67-XXX-XX, Fig. 5

Aufbau Artikelnummern:
Bei unseren neuen Arthroskopiestanzen gibt es verschiedene Griffmodelle, wie hier abgebildet. Auf den folgenden Seiten können Sie in der Übersicht jeweils die verschiedenen Griffmodelle ersehen, die für die entsprechenden Ausführungen geliefert werden können.

Bitte einfach die Artikelnummer des gewünschten Griffmodells angeben und die Nummer der Stanze anhängen.

Beispiel:
Hakenschere gerade 2,7mm,
Griff Fig. 1 H62-271-10
Hakenschere gerade 2,7mm,
Griff Fig. 6 H68-271-10

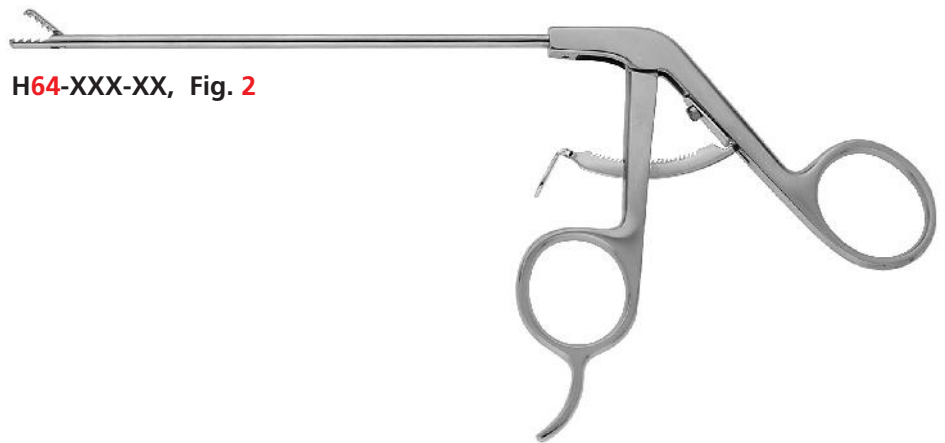
Different handles are available for our new Arthroscopy punches. You can see the different types of handles on the following pages.

Please just mention the item number of the required handle and attach the reference number of the punch.

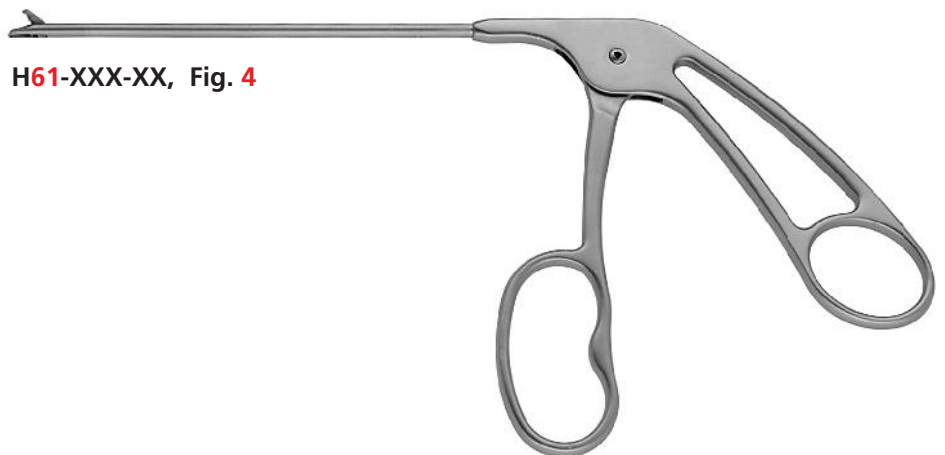
Example:

*Hook scissors, straight 2,7mm,
Handle Fig. 1 H62-271-10*

*Hook scissors, straight 2,7mm,
Handle Fig. 6 H68-271-10*



H64-XXX-XX, Fig. 2



H61-XXX-XX, Fig. 4



H68-XXX-XX, Fig. 6

H62-XXX-XX
Fig. 1



H60-XXX-XX
Fig. 3



H61-XXX-XX
Fig. 4







Hakenschere
Hook Scissors

Hakenstanze mit Schaufel
Hook Punch with Scoop

Hakenstanze abgesetzt,
stumpf
*Hook Punch set down,
blunt*

Hakenstanze, Schnitt eckig
Hook Punch, Cut angular





	Ø mm	Stanzung Bite mm	gerade straight	30° rechts 30° right	30° links 30° left
	2,7 3,5	-	HXX-271-10 HXX-351-10	HXX-272-10 HXX-352-10	HXX-273-10 HXX-353-10
	2,7 3,5	5,0 X 1,6	HXX-271-21 HXX-351-21	HXX-272-21 HXX-352-21	HXX-273-21 HXX-353-21
	2,7 3,5	5,0 X 1,6	HXX-271-23 HXX-351-23	HXX-272-23 HXX-352-23	HXX-273-23 HXX-353-23
	3,5	5,0 X 1,6	HXX-351-24	HXX-352-24	HXX-353-24

Hakenstanze, 15° aufwärts
gefräst
Hook Punch, 15° up milled

Breitmaulstanze groß
Wide Jaw Punch large

Breitmaulstanze mittel
Wide Jaw Punch medium

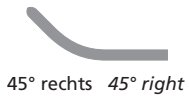
Breitmaulstanze klein
Wide Jaw Punch small

	Ø mm	Stanzung Bite mm	gerade straight	30° rechts 30° right	30° links 30° left
	2,7 3,5	5,0 X 1,6	HXX-271-36 HXX-351-36	HXX-272-36 HXX-352-36	HXX-273-36 HXX-353-36
	3,5	5,0 X 4,5	HXX-351-38	HXX-352-38	HXX-353-38
	3,5	5,0 X 3,5	HXX-351-37	HXX-352-37	HXX-353-37
	3,5	6,0 X 2,5	HXX-351-39	HXX-352-39	HXX-353-39

H67-XXX-XX
Fig. 5



H68-XXX-XX
Fig. 6



45° rechts 45° right



45° links 45° left



7° auf 7° up



7° ab 7° down



15° auf 15° up



15° ab 15° down

HXX-274-10
HXX-354-10

HXX-275-10
HXX-355-10

HXX-276-10
HXX-356-10

HXX-277-10
HXX-357-10

HXX-278-10
HXX-358-10

HXX-279-10
HXX-359-10

HXX-274-21
HXX-354-21

HXX-275-21
HXX-355-21

HXX-276-21
HXX-356-21

HXX-277-21
HXX-357-21

HXX-278-21
HXX-358-21

HXX-279-21
HXX-359-21

HXX-274-23
HXX-354-23

HXX-275-23
HXX-355-23

HXX-276-23
HXX-356-23

HXX-277-23
HXX-357-23

HXX-278-23
HXX-358-23

HXX-279-23
HXX-359-23

HXX-354-24

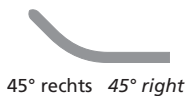
HXX-355-24

HXX-356-24

HXX-357-24

HXX-358-24

HXX-359-24



45° rechts 45° right



45° links 45° left



7° auf 7° up



7° ab 7° down



15° auf 15° up



15° ab 15° down

HXX-274-36
HXX-354-36

HXX-275-36
HXX-355-36

HXX-276-36
HXX-356-36

HXX-277-36
HXX-357-36

HXX-278-36
HXX-358-36

HXX-279-36
HXX-359-36

HXX-354-38

HXX-355-38

HXX-356-38

HXX-357-38

HXX-358-38

HXX-359-38

HXX-354-37

HXX-355-37

HXX-356-37

HXX-357-37

HXX-358-37

HXX-359-37

HXX-354-39

HXX-355-39

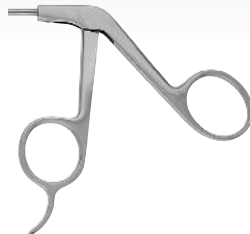
HXX-356-39

HXX-357-39

HXX-358-39

HXX-359-39

H62-XXX-XX
Fig. 1



H60-XXX-XX
Fig. 3



H61-XXX-XX
Fig. 4







Breitmaulstanze groß
15° aufwärts gefräst
Wide Jaw Punch large
15° up milled

Breitmaulstanze mittel
15° aufwärts gefräst
Wide Jaw Punch medium
15° up milled

Breitmaulstanze klein
15° aufwärts gefräst
Wide Jaw Punch small
15° up milled

Breitmaulstanze klein
45° aufwärts gefräst
Wide Jaw Punch small
45° up milled

	Ø mm	Stanzung Bite mm	gerade straight	30° rechts 30° right	30° links 30° left
	3,5	5,0 X 4,5	HXX-351-50	HXX-352-50	HXX-353-50
	3,5	5,0 X 3,5	HXX-351-51	HXX-352-51	HXX-353-51
	3,5	6,0 X 2,5	HXX-351-52	HXX-352-52	HXX-353-52
	3,5	6,0 X 2,0	HXX-351-53	-	-






45° Hakenschere
45° Hook Scissors

45° Stanze mit Schaufel
45° Punch with Scoop

45° Stanze stumpf
45° Punch blunt

90° Stanze mit Schaufel
90° Punch with Scoop

90° Stanze stumpf
90° Punch blunt

	Ø mm	Stanzung Bite mm	rechts abgewinkelt right angled	links abgewinkelt left angled
	3,5	-	HXX-350-12	HXX-351-12
	3,5	4,5 X 1,6	HXX-350-28	HXX-351-28
	3,5	4,5 X 1,6	HXX-350-30	HXX-351-30
	3,5	4,5 X 1,6	HXX-350-32	HXX-351-32
	3,5	4,5 X 1,6	HXX-350-34	HXX-351-34

H67-XXX-XX
Fig. 5

H68-XXX-XX
Fig. 6


45° rechts 45° right



45° links 45° left



7° auf 7° up



7° ab 7° down



15° auf 15° up



15° ab 15° down

HXX-354-50
HXX-355-50
HXX-356-50
HXX-357-50
HXX-358-50
HXX-359-50
HXX-354-51
HXX-355-51
HXX-356-51
HXX-357-51
HXX-358-51
HXX-359-51
HXX-354-52
HXX-355-52
HXX-356-52
HXX-357-52
HXX-358-52
HXX-359-52

-

-

-

-

-

-

 90° Breitmaulstanze
 mittel

 90° Wide Jaw Punch
 medium

 90° Breitmaulstanze
 klein

 90° Wide Jaw Punch
 small


Ø mm

 Stanzung
 Bite mm

 rechts abgewinkelt
 right angled

 links abgewinkelt
 left angled

3,5

7,0 X 3,0

HXX-350-13
HXX-351-13

3,5

7,0 X 1,8

HXX-350-14
HXX-351-14

H62-XXX-XX
Fig. 1



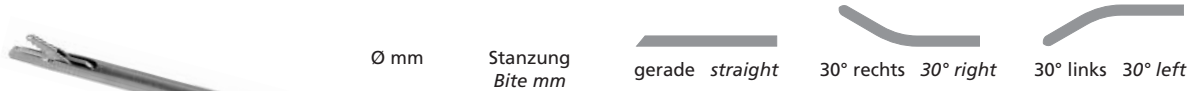
H60-XXX-XX
Fig. 3



H61-XXX-XX
Fig. 4



Scherenstanze
Scissors Punch



Scherenstanze
15° aufwärts gefräst
Scissors Punch
15° up milled

Ø mm	Stanzung Bite mm	gerade straight	30° rechts 30° right	30° links 30° left
3,5	5,0 X 0,8	HXX-351-55	HXX-352-55	HXX-353-55

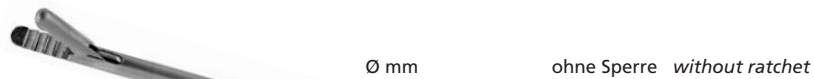
Stanze Retrograd
Schnitt links
Punch Retrograde
Cut left

3,5	5,0 X 0,8	HXX-351-56	HXX-352-56	HXX-353-56
-----	-----------	------------	------------	------------

Stanze Retrograd
Schnitt rechts
Punch Retrograde
Cut right

3,5	4,0 X 2,5	HXX-351-57	-	-
3,5	4,0 X 2,5	HXX-351-58	-	-

Fasszange
Grasping Forceps



Fasszange 1 X 2 Zähne
Grasping Forceps
1 X 2 Teeth

Ø mm	ohne Sperre without ratchet
2,7	HXX-270-40
3,5	HXX-350-40

Fasszange 1 X 2 Zähne
Grasping Forceps
1 X 2 Teeth

3,5	HXX-350-46
-----	------------

Fass- und Biopsiezange
Grasping and Biopsy
Forceps

3,5	HXX-350-42
-----	------------

Biopsie-Löffel-Zange
Biopsy Spoon Forceps

3,5	HXX-350-44
-----	------------

Bulldog Fasszange
1 X 2 Teeth

3,5	HXX-350-43
-----	------------

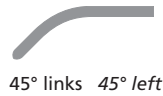
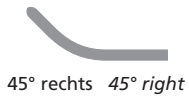
Bulldog Grasping Forceps
1 X 2 Teeth

3,5	HXX-350-47
-----	------------

H67-XXX-XX
Fig. 5



H68-XXX-XX
Fig. 6



HXX-354-55

HXX-355-55

HXX-356-55

HXX-357-55

HXX-358-55

HXX-359-55

HXX-354-56

HXX-355-56

HXX-356-56

HXX-357-56

HXX-358-56

HXX-359-56

-

-

-

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-

-

Fasszange
Grasping Forceps

Fasszange 1 X 2 Zähne
*Grasping Forceps
1 X 2 Teeth*

Fasszange 1 X 2 Zähne
*Grasping Forceps
1 X 2 Teeth*

Fass- und Biopsiezange
*Grasping and Biopsy
Forceps*

Biopsie-Löffel-Zange
Biopsy Spoon Forceps

Bulldog Fasszange
*1 X 2 Teeth
Bulldog Grasping Forceps
1 X 2 Teeth*



Ø mm

mit Sperre *with ratchet*

2,7

H64-270-40

3,5

H64-350-40

3,5

H64-350-46

3,5

H64-350-42

3,5

H64-350-44

3,5

H64-350-43

3,5

H64-350-47



**Sperregriff
Handle
with ratchet
H64-XXX-XX
Fig. 2**

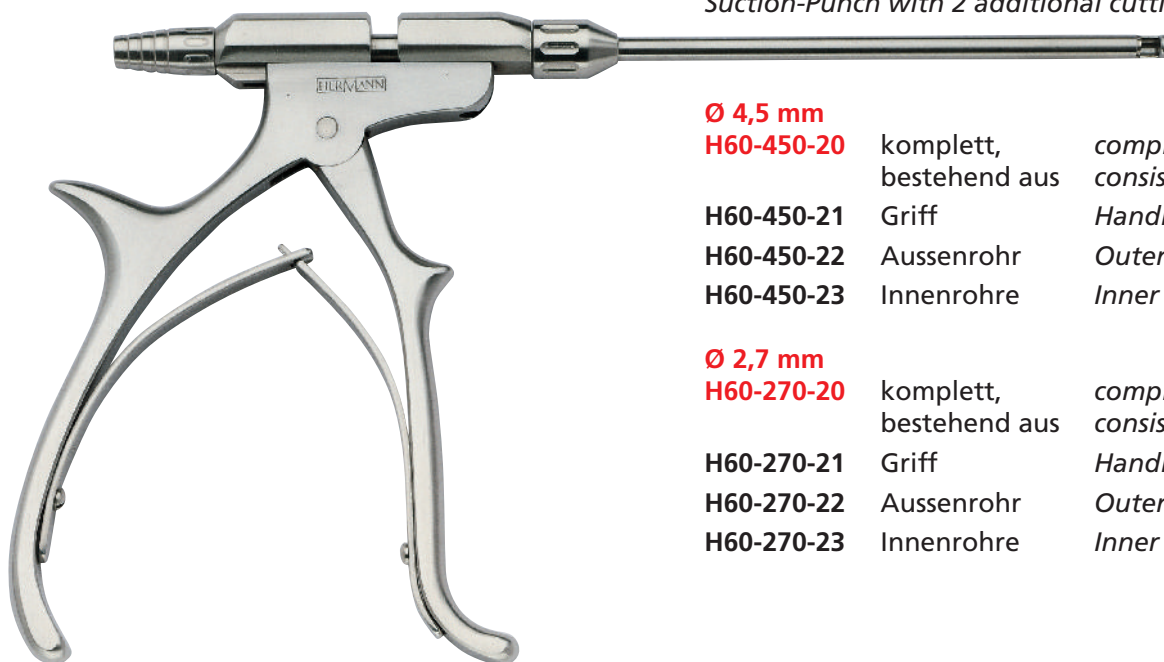
Arthroskopie-Stanzen
drehbar und zerlegbar,
verschiedene Modelle auf Anfrage

Arthroscopy punches
rotatable and detachable,
different models on request

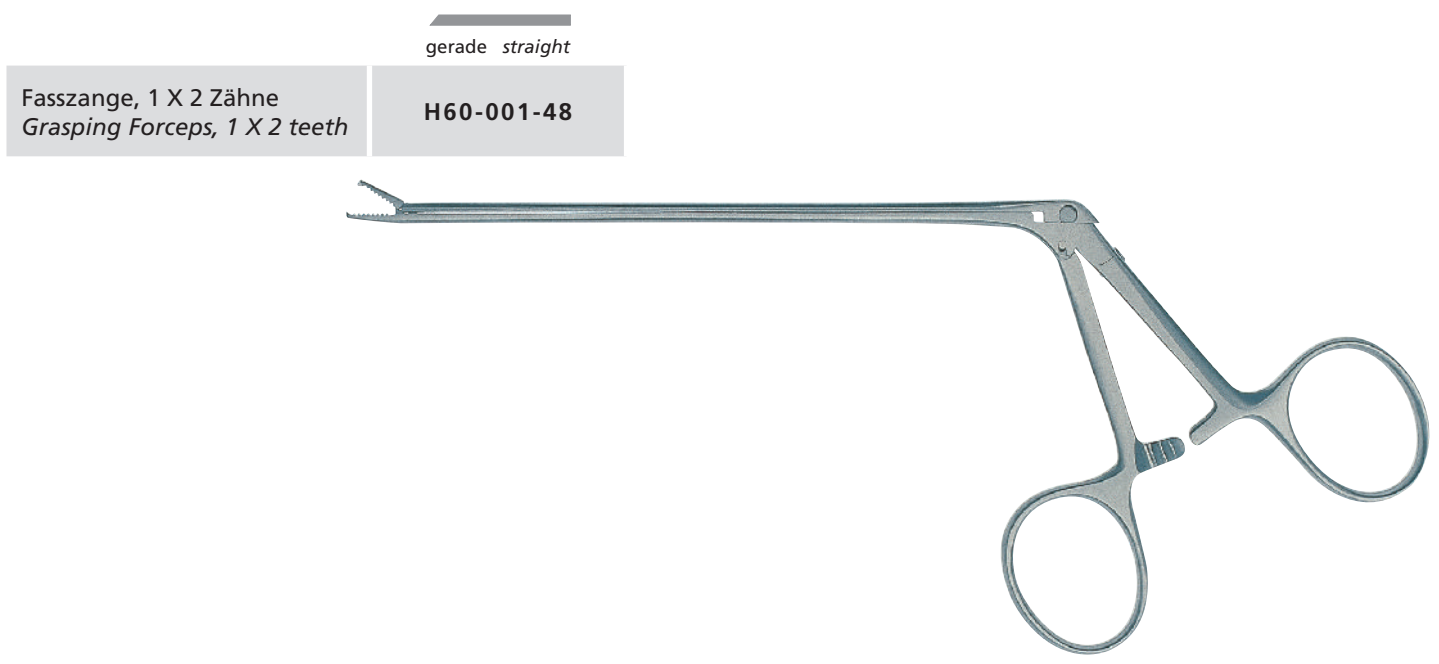
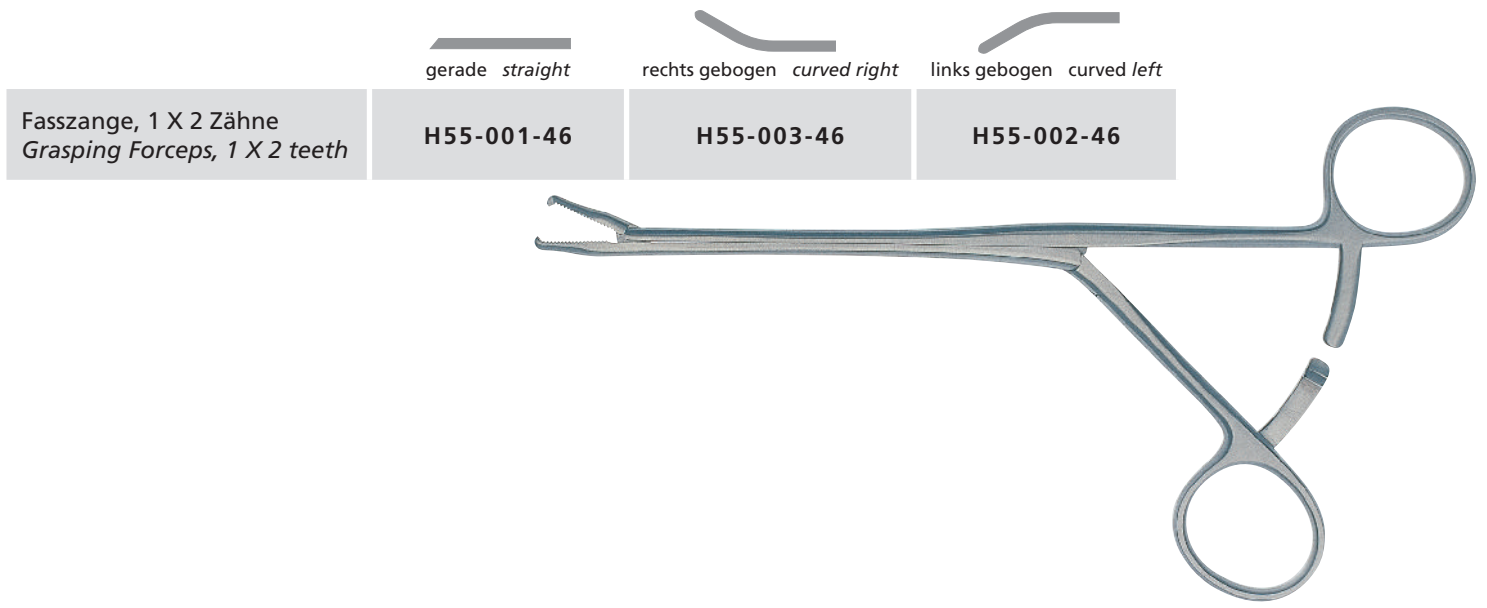


Saugstanze
Suction-Punch

Saugstanze mit 2 auswechselbaren Schneidrohren
Suction-Punch with 2 additional cutting tube-blades



Ø 4,5 mm		
H60-450-20	komplett, bestehend aus	<i>complete, consisting of</i>
H60-450-21	Griff	<i>Handle</i>
H60-450-22	Aussenrohr	<i>Outer sheath</i>
H60-450-23	Innenrohre	<i>Inner sheaths</i>
Ø 2,7 mm		
H60-270-20	komplett, bestehend aus	<i>complete, consisting of</i>
H60-270-21	Griff	<i>Handle</i>
H60-270-22	Aussenrohr	<i>Outer sheath</i>
H60-270-23	Innenrohre	<i>Inner sheaths</i>



Griff für Einsätze
mit Arretierung
*Handle for Inserts
with adjustment*

H66-0000-01

Griff für Einsätze,
variabel
*Handle for Inserts,
variable*

H66-0000


















Aufsätze
für Griff
H66-0000-01

*Inserts
for handle
H66-0000-01*


















Aufsätze
für Griff
H66-0000

*Inserts
for handle
H66-0000*



Hakensonde, spitz <i>Hook Probe, pointed</i>		H66-0200-01	H66-0200
Hakensonde, graduiert <i>Hook Probe, graduated</i>		2,5 mm H66-0425-01 3,5 mm H66-0435-01	H66-0425 H66-0435
Skalpellmesser <i>Scalpel Knife</i>		H66-1000-01	H66-1000
Bananamesser, glatt <i>Banana Knife, smooth</i>		H66-1100-01	H66-1100
Bananamesser, gezahnt <i>Banana Knife, serrated</i>		H66-1200-01	H66-1200
Hakenmesser, 90° <i>Hook Knife, 90°</i>		3 mm H66-1390-01	H66-1390
Messer, 45°, retrograd <i>Knife, 45°, retrograd</i>		5 mm H66-1445-01	H66-1445
Sichelmesser <i>Sickle Knife</i>		H66-1500-01	H66-1500
Bajonettmesser <i>Bajonet Knife</i>		H66-1600-01	H66-1600
Messer, gezahnt, gerade <i>Knife, serrated, straight</i>		3 mm H66-1700-01	H66-1700
Messer, gezahnt, 30° gebogen <i>Knife, serrated, 30° curved</i>		links <i>left</i> H66-1830-01 rechts <i>right</i> H66-1930-01	H66-1830 H66-1930
Meniskotom, gerade Schneide <i>Meniscotome, straight edge</i>		3 mm H66-2030-01 5 mm H66-2050-01	H66-2030 H66-2050
Meniskotom, runde Schneide <i>Meniscotome, round edge</i>		7 mm H66-2070-01	H66-2070
Ringkürette, 30° <i>Ring Curette, 30°</i>		Ø 3 mm H66-3030-01 Ø 7 mm H66-3070-01	H66-3030 H66-3070
Löffel, 15° <i>Spoon, 15°</i>		Ø 3 mm H66-4030-01	H66-4030
Knorpelfeile, fein <i>Cartilage rasp, fine</i>		H66-4050-01	H66-4050
Knorpelfeile, grob <i>Cartilage rasp, rough</i>		H66-4060-01	H66-4060













**Einteilige Instrumente,
Dreiecksgriff**
**One-Piece Instruments
Handle triangular**

Hakensonde, spitz <i>Hook Probe, pointed</i>			H69-0200
Hakensonde, graduiert <i>Hook Probe, graduated</i>		3 mm	H69-0425
		5 mm	H69-0435
Skalpellmesser <i>Scalpel Knife</i>			H69-1000
Bananamesser, glatt <i>Banana Knife, smooth</i>			H69-1100
Bananamesser, gezahnt <i>Banana Knife, serrated</i>			H69-1200
Hakenmesser, 90° <i>Hook Knife, 90°</i>		3 mm	H69-1390
Messer, 45°, retrograd <i>Knife, 45°, retrograd</i>		5 mm	H69-1445
Sichelmesser <i>Sickle Knife</i>			H69-1500
Bajonettmesser <i>Bajonet Knife</i>			H69-1600
Messer, gezahnt, gerade <i>Knife, serrated, straight</i>		3 mm	H69-1700
Messer, gezahnt, 30° gebogen <i>Knife, serrated, 30° curved</i>		links <i>left</i>	H69-1830
		rechts <i>right</i>	H69-1930
Meniskotom, gerade Schneide <i>Meniscotome, straight edge</i>		3 mm	H69-2030
		5 mm	H69-2050
Meniskotom, runde Schneide <i>Meniscotome, round edge</i>		7 mm	H69-2070
Ringkürette, 30° <i>Ring Curette, 30°</i>		Ø 3 mm	H69-3030
		Ø 7 mm	H69-3070
Löffel, 15° <i>Spoon, 15°</i>		Ø 3 mm	H69-4030
Knorpelfeile, fein <i>Cartilage rasp, fine</i>			H69-4050
Knorpelfeile, grob <i>Cartilage rasp, rough</i>			H69-4060



Einteilige Instrumente
One-Piece Instruments



Hakensonde <i>Hook Probe</i>		4 mm	H65-0540
Skalpellmesser <i>Scalpel Knife</i>			H65-1000
Bananamesser, glatt <i>Banana Knife, smooth</i>			H65-1100
Bananamesser, gezahnt <i>Banana Knife, serrated</i>			H65-1200
Hakenmesser, 90° <i>Hook Knife, 90°</i>			H65-1390
Messer, 45° <i>Knife, 45°</i>			H65-1445
Messer, gezahnt, gerade <i>Knife, serrated, straight</i>			H65-1700
Meniskotom, gerade Schneide <i>Meniscotome, straight edge</i>		3 mm	H65-2030
		5 mm	H65-2050
Ringkürette, 30° <i>Ring Curette, 30°</i>		Ø 3 mm	H65-3030
Löffel, 15° <i>Spoon, 15°</i>		Ø 3 mm	H65-4030
Knorpelfeile, fein <i>Cartilage rasp, fine</i>			H65-4050
Knorpelfeile, grob <i>Cartilage rasp, rough</i>			H65-4060

Interferenz Schrauben
Interference Screws



**Interferenz Schrauben,
Gewinde tief, 2-gängig**
*Interference Screws, deep
thread, double action*



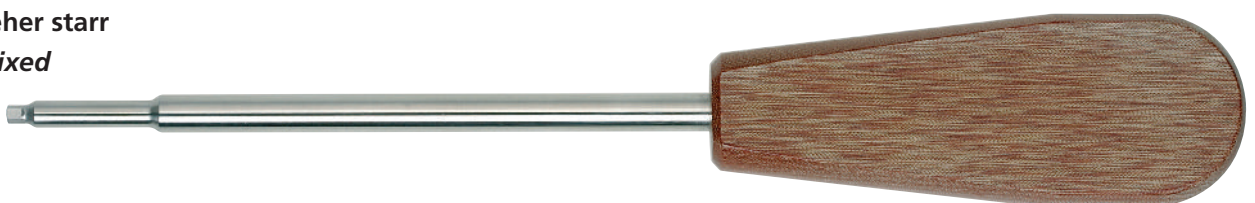
**Interferenz Schrauben,
Gewinde normal**
*Interference Screws,
normal thread*

Ø mm	Länge length mm	
7	20	H24-70320
7	25	H24-70325
7	30	H24-70330
8	20	H24-80320
8	25	H24-80325
8	30	H24-80330
9	20	H24-90320
9	25	H24-90325
9	30	H24-90330
10	20	H24-10320
10	25	H24-10325
10	30	H24-10330

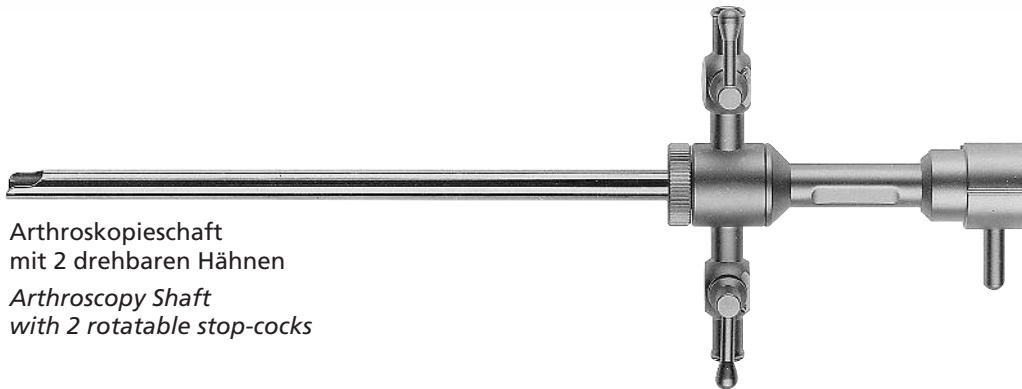
Ø mm	Länge length mm	
7	20	H25-70320
7	25	H25-70325
7	30	H25-70330
8	20	H25-80320
8	25	H25-80325
8	30	H25-80330
9	20	H25-90320
9	25	H25-90325
9	30	H25-90330
10	20	H25-10320
10	25	H25-10325
10	30	H25-10330

Schraubendreher starr
Screwdriver fixed

H25-00000



Arthroskopieschäfte Arthroscopy Shafts



Arthroskopieschaft
mit 2 drehbaren Hähnen
*Arthroscopy Shaft
with 2 rotatable stop-cocks*

Optik Optic Ø mm	Schaftlänge Shaft length mm	Universal	30°
2,7	110	H80-033-01	H80-033-0130
2,7	175	H80-033-00	H80-033-0030
2,7	187,5	H80-033-02	H80-033-0230
4,0	175	H80-043-00	H80-043-0030
5,0	175	H80-053-00	H80-053-0030




Arthroskopieschaft
mit 1 drehbaren Hahn
*Arthroscopy Shaft
with 1 rotatable stop-cock*

Optik Optic Ø mm	Schaftlänge Shaft length mm	Universal	30°
2,7	175	H80-031-00	H80-031-0030
2,7	187,5	H80-031-02	H80-031-0230
4,0	175	H80-041-00	H80-041-0030
5,0	175	H80-051-00	H80-051-0030


**Trokare und Obturatoren
für Arthroskopieschäfte**
*Trocars and Obturators
for Arthroscopy Shafts*

Trokar dreikant
Trocar pyramidal




Ø mm	Länge <i>length</i> mm	
2,7	110	H80-127-30
2,7	175	H80-027-30
2,7	187,5	H80-227-30
4	175	H80-040-30
5	175	H80-050-30

Obturator stumpf
Obturator blunt



Ø mm	Länge <i>length</i> mm	
2,7	110	H80-127-31
2,7	175	H80-027-31
2,7	187,5	H80-227-31
4	175	H80-040-31
5	175	H80-050-31

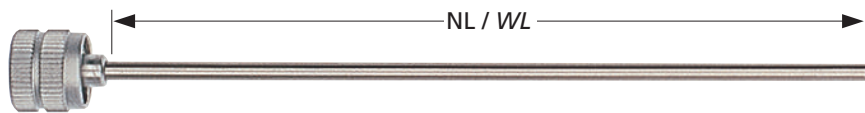
Obturator konisch
Obturator conical



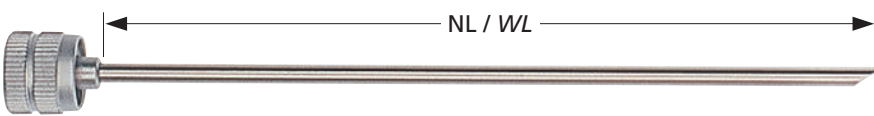
Ø mm	Länge <i>length</i> mm	
2,7	175	H80-027-32
2,7	187,5	H80-227-32
4	175	H80-040-32
5	175	H80-050-32



Spülkanüle, Hahn,
Luer-Lock-Anschluß
*Suction Canula, stopcock,
Luer-Lock connection*

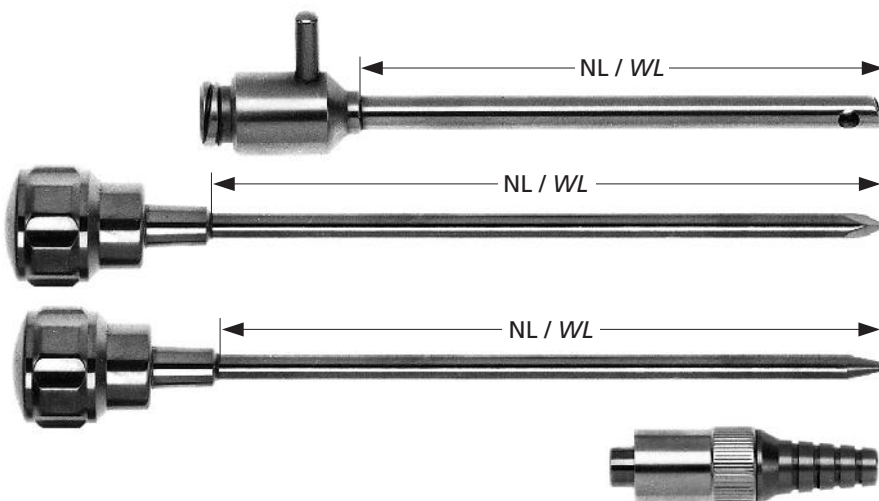


Obturator stumpf
Obturator blunt



Trokar
Trocar

Ø mm	komplett <i>complete</i>			NL mm WL mm	
3,2	H80-307-31	bestehend aus <i>consisting of</i>	Spülkanüle <i>Suction Canula</i>	70	H80-307-32
			Obturator <i>Obturator</i>	92	H80-307-33
			Trokar <i>Trocar</i>	94,5	H80-307-34
4,5	H80-407-31	bestehend aus <i>consisting of</i>	Spülkanüle <i>Suction Canula</i>	70	H80-407-32
			Obturator <i>Obturator</i>	93	H80-407-33
			Trokar <i>Trocar</i>	97,5	H80-407-34

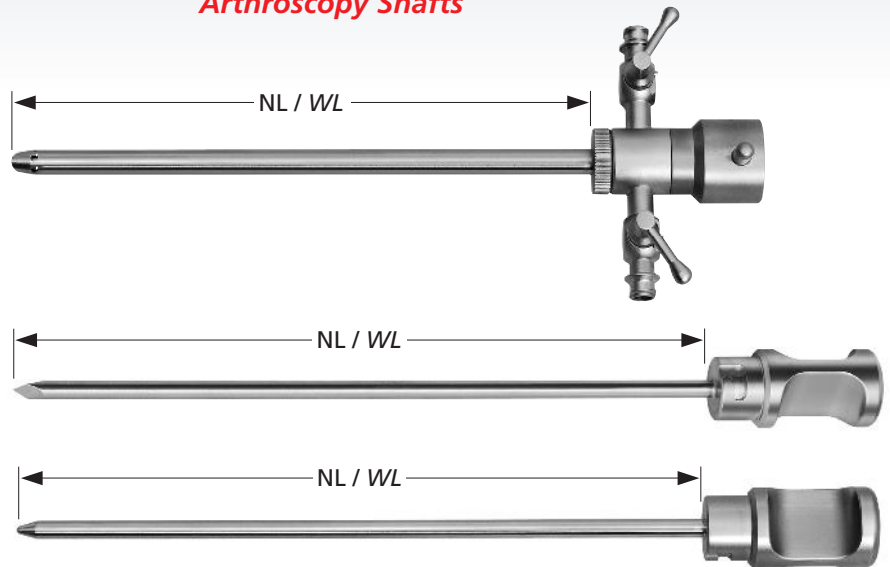


Inflowkanüle komplett
Inflow Canula complete

Ø mm	komplett <i>complete</i>			NL mm WL mm	
4,5	H80-408-00	bestehend aus <i>consisting of</i>	Schaft allein <i>Shaft only</i>	83	H80-408-01
			Trokar dreikant <i>Trocar pyramidal</i>	107,5	H80-408-02
			Trokar stumpf <i>Trocar blunt</i>	107	H80-408-03
			Adapter <i>Adapter</i>		H80-408-04

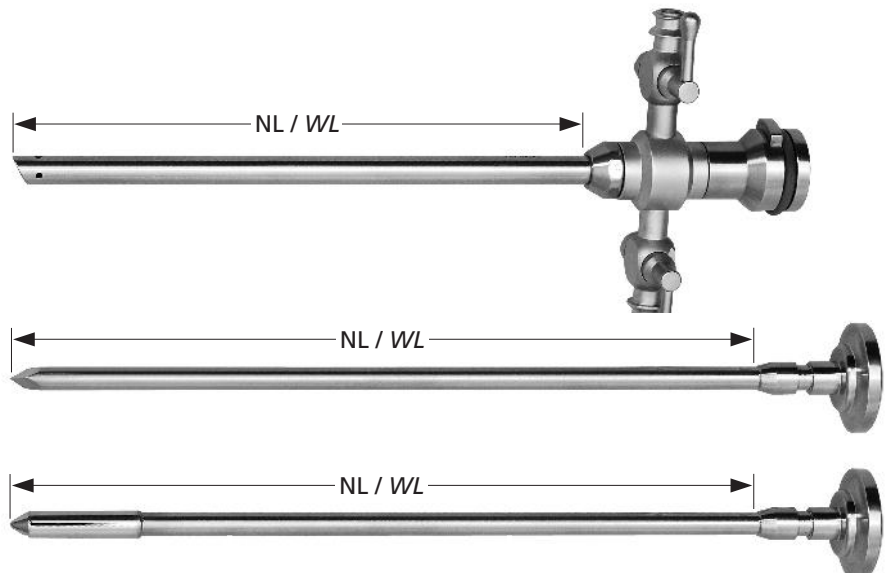
Arthroskopieschäfte
Arthroscopy Shafts

Arthroskopieschaft mit 2 drehbaren
Hähnen, Dyonics kompatibel
*Arthroscopy Shaft with 2 rotatable
stop-cocks, Dyonics compatible*



	Optik <i>Optic</i> Ø mm	NL mm WL mm	
Schaft 30° <i>Shaft 30°</i>	4	138	H80-040-138
Trokar dreikant <i>Trocar pyramidal</i>		165	H80-140-165
Obturator konisch <i>Obturator conical</i>		164	H80-240-164

Arthroskopieschaft mit 2 drehbaren
Hähnen, Stryker kompatibel
*Arthroscopy Shaft with 2 rotatable
stop-cocks, Stryker compatible*



	Optik <i>Optic</i> Ø mm	NL mm WL mm	
Schaft 30° <i>Shaft 30°</i>	4	115,5	H80-040-1155
Trokar dreikant <i>Trocar pyramidal</i>		148,2	H80-140-1482
Obturator konisch <i>Obturator conical</i>		147,5	H80-240-1475

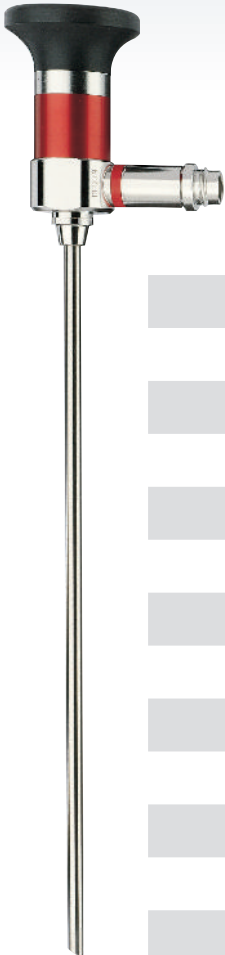
NL = Nutzlänge
WL = Working length

Arthroskope

autoklavierbar 134° C / 273° Fahrenheit

Arthroscopes

autoclavable 134° C / 273° Fahrenheit



Ø mm	Blickrichtung Direction of view	Länge length mm	
2,7	0°	110	H84-027-000
2,7	30°	110	H84-027-030
2,7	70°	110	H84-027-070
2,7	0°	175	H84-127-000
2,7	30°	175	H84-127-030
2,7	70°	175	H84-127-070
2,7	0°	187,5	H84-227-000
2,7	30°	187,5	H84-227-030
2,7	70°	187,5	H84-227-070
4,0	0°	175	H84-040-000
4,0	30°	175	H84-040-030
4,0	45°	175	H84-040-045
4,0	70°	175	H84-040-070

Minioptiken auf Anfrage lieferbar
Miniscopes deliverable on request

Lichtleitkabel

Autoklavierbar bis 134°C / 273° Fahrenheit, hochflexibel und zugfest

Cold Light Cable

Autoclavable 134°C / 273° Fahrenheit, high flexibility and tensile strength



Ø mm	Länge Length mm	
3,5	1800	H91-180-035
3,5	2300	H91-230-035
3,5	3000	H91-300-035
4,8	1800	H91-180-045
4,8	2300	H91-230-045
4,8	3000	H91-300-045

Sofern nicht anders vermerkt, liefern wir mit STORZ-Anschlüssen. Lichtleitkabel auch für Xenon-Lampen 300 W geeignet.

If not stated differently we supply with STORZ connections. Light guides as well appropriate for Xenon lamps 300 W.

Camera accessories



Focus	TV-Adapter
15 mm	H97-250-000
21 mm	H97-250-001
28 mm	H97-250-002
35 mm	H97-250-003



Focus	Zoom-Adapter
15 mm - 35 mm	H97-250-400



Focus	TV-Zoom
15 mm - 25 mm	H97-250-100
25 mm - 40 mm	H97-250-101



Focus	TV-Adapter for flexible Endoscopes (Pentax, Olympus, Fuji)
15 mm	H97-250-200
21 mm	H97-250-201



Focus	Beamsplitter
25 mm	H97-250-300
30 mm	H97-250-301

Xenon Light Sources

The HX-0100 / HX-0180 / HX-0300 offers the professional user the most advanced pure day light sources (5600°K colour temperature).

It contains an improved high intensity and low heat conductive xenon lamp.

LAMP

The built-in lamp is a specially developed xenon gas discharge lamp, filled with non-polluting xenon gas. The lamp design is optimized for endoscopic applications. Its design features a high efficiency reflector (and lens-system HX-300) which focusses light more effectively on the fiberoptic light guide. When the lifetime of the lamp (500 hrs.) has expired, the lamp is simply replaced by a new one within minutes - no tools and no adjustments are required.

LIGHT CONTROL

The output intensity is controlled steplessly via a motor driven, mechanical diaphragm. This ensures a constant colour temperature. The output intensity is set by push buttons.

CONNECTION

An interchangeable adapter system for all types of endoscopes, fibrescopes and microscopes ensures that the light sources can be operated in all applications. For more flexibility the light source is available with a TURRET-adapter system. The TURRET-adapter contains four adapters (Storz / Wolf / Olympus / ACMI) in a simple turning mechanism.

QUALITY

The light sources fulfill all essential safety demands. The rugged desk housing and the flat, waterproof touch control panel withstands all daily used requirements.

For highest safety requirements, we offer the HX- series also with built-in 150 Watt Halogen lamp as emergency illumination. In case of lamp defects during operation the emergency lamp is automatically switched on.



	H90-100-001	H90-180-001	H90-300-001
Type	HX-0100	HX-0180	HX-0300
Lamp	100 W	180 W	300 W
Power supply	110/115 VAC and 230/240 VAC, switchable		
External dimensions	353 x 110 x 347 (W x H x D)		
Weight	9,5 kg	11,5 kg	13,5 kg
Power consumption	185 W	280 W	370 W
Lightguide adapter	Interchangeable, one included, please state lightguide fitting		
Lamp	Xenon short arc gas discharge lamp, elliptical cold light reflector		
Colour temperature	5600° K		
Protective class	BF		

Options: With TURRET-adapter-system **H90-XXX-002**
 With built-in 150 W halogen lamp as emergency illumination **H90-XXX-003**

Delivery contains: Light Source
 Mains Cable
 User manual



Halogen Light Source

The HH-2250 is a universal and easy to use series of high-intensity Halogen light sources. They can be used for nearly every endoscopic application. The 2 lamps ensuring an uninterrupted working if one lamp breaks down or expanding possibilities with using different adapters for different light guide systems.

Special reflector lamps and infrared filters stand for best light coupling.

A softstart electronic expands the life time of the Halogen lamps.

The intensity is controlled by mechanical diaphragm without changing the colour temperature.

Options:

With 2 lamps and 2 outputs (no simultaneous use) **H90-250-001** Type HH-2251
 With 1 lamp and 1 output **H90-250-002** Type HH-2252

Delivery contains: Light Source
 Mains Cable
 User manual

HH-2250	H90-250-000
Power supply	110/115 VAC and 230/240 VAC, switchable
External dimensions	353 x 110 x 347 (W x H x D)
Weight	8,5 kg
Power consumption	260 W
Lightguide adapter	Interchangeable, one included, please state lightguide fitting
Lamp	2 halogen reflector lamps, 250W, 24V
Colour temperature	3600° K
Protective class	BF

Combination Units (Xenon Light Source and 1-CCD Camera)

1/3" high resolution sensor of the latest generation. Individual camera settings via ON-SCREEN-MENU (only -CCD versions). Preadjustments (Model -W) for WINDOW function and ANTI-MOIRÉE-Filter. WINDOW function for partial brightness measurement under difficult illumination situations. ANTI-MOIRÉE-Filter (electronical) to reduce matrix-effects while working with flexible fibrescopes.

This videoprocessor series combines powerful XENON light sources with full digital processing 1-CCD cameras. Space saving compact design. XENON light source with high energy reflector lamps, optimized for endoscopic applications. Exchangeable light guide adapter for use of different light guide systems. High resolution digital CCD camera system for best image quality. Different camera options to meet every demand. Maximum flexibility with exchangeable C-Mount adapters and individual adjustments over On-Screen-Menu (only basic model).

CAMERA HEAD

Light weight C-Mount camera head with ergonomical design. Various range of TV-Adapters (Zoom-Adapters, Beamsplitters, Microscope-Adapters) can be attached. Camera head, cable and connector (using attached waterproof cap) can be immersed in a disinfectant solution.

LIGHT SOURCE

Powerful 100 or 180 Watt light source with XENON reflector lamps. Exchangeable adapters for different light guide systems. Direct focussing without lenses. Lamp change without any adjustments. Heat reflecting / infra-red filter. Motor driven, mechanical diaphragm for intensity control.



	H90-100-100	H90-180-100
Type	HCX-100	HCX-180
Lamp	100 W	180 W
Video system	PAL / NTSC	
CCD-sensor	1/3" CCD-chip, 752 (H) x 582 (V), 440.000 pixel	
Video resolution	470 TV-lines	
Shutter speed	max. 1/100.000 sec.	
sensitivity	0,9 lux, f=1,4	
Video outputs	1 x VBS, 1 x S-VHS (Y/C)	
light source	Xenon short arc gas discharge lamp, 100W	
External dimensions	353 x 110 x 347 mm (W x H x D)	
Function	on screen menu (only basic model)	

Model:

Preadjustment for WINDOW function and anti moirée filter **H90-XXX-100-W**

Options: (on inquiry) Remote camera head for panel function or video printer **-R**

FREEZE function for image freezing **-F**

Footswitch to control FREEZE function **-S**

Delivery contains:

CCU, camera head with 3 meter cable, Mains cable, Y/C cable, BNC cable, User manual



Combination Units (Halogen Light Source and 1-CCD Camera)

CCD Video Camera 1/3" high resolution sensor of the latest generation. Individual camera settings via On-Screen-Menu (only -CCD version). Preadjusted functions (on -W versions) for WINDOW and BOOST function. WINDOW function for partial brightness measurement under difficult illumination situations. Electronical ANTI-MOIRÉE-Filter (optional) to reduce Matrix-effects while working with flexible fibrescopes.

This videoprocessor series combines powerful HALOGEN light sources with full digital processing 1-CCD cameras. Space saving compact design. HALOGEN light source with reflector lamps, optimized for endoscopic applications. Exchangeable light guide adapter for use of different light guide systems. High resolution digital CCD-camera system for best image quality. Different camera options to meet every demand. Maximum flexibility with exchangeable C-Mount adapters.

CAMERA HEAD

Light-weight C-Mount camera head with ergonomical design. Various range of TV-Adapters (Zoom-Adapters, Beamsplitters, Microscope-Adapters) can be attached. Camera head, cable and connector (using attached waterproof cap) can be immersed in a disinfectant solution

LIGHT SOURCE

Two lamp - two output Halogen system with reflector lamps. Exchangeable adapters for different light guide systems. Direct focussing without lenses. Heat reflecting / infra-red filter.

HCH-250	H90-250-100
Video system	PAL / NTSC
CCD-sensor	1/3" CCD-chip, 752 (H) x 582 (V), 440.000 pixel
Video resolution	470 TV-lines
Shutter speed	max. 1/100.000 sec.
Sensitivity	0,9 lux, f=1,4
Video outputs	1 x VHS, 1 x S-VHS
Light source	halogen reflector lamp, 250W, 24V
Power supply	Switchable, 110/115 VAC and 230/240 VAC
External dimensions	353 x 110 x 347 mm (W x H x D)
Function	on screen menu (only basic model)

Model:

White balance / WINDOW / boost **H90-XXX-100-WB**

Options: (on inquiry)

Electronical anti moirée filter **-M**

Remote camera head for panel function or video printer **-R**

FREEZE function for image freezing **-F**

Footswitch to control FREEZE function **-S**

Delivery contains:

CCU, camera head with 3 meter cable,
Mains cable, Y/C cable, BNC cable, User manual

Digital 1-CCD Video Camera

HC-1000 represents our range of 1-CCD-cameras for endoscopic applications. Full digital signal processing guarantees true colour reproduction and outstanding image quality. A high sensitive, high resolution 1/3" CCD ensures high clarity and sharp detailed images for every endoscopic application. It is easy and flexible to use. The HC-1000 can be adjusted individually via integrated On-Screen-Menu. Camera head is very small and light-weight. It can be immersed in disinfectant solution for sterilisation (using attached cap).



WHITE BALANCE

White Balance is done automatically via push-button.

WINDOW FUNCTION

Window Function is programmed for different brightness measurement fields in case of difficult illumination conditions. Size can be adjusted via On-Screen-Menu.

ON-SCREEN-MENU

Camera settings (like contrast, brightness, window size) can be made in the On-Screen-Menu. Settings are stored in memory.

FREEZE FUNCTION (only -F version)

Model "F" can freeze the image on the screen via remote buttons on the camera head or footswitch (optional).

USB-CAPTURE SYSTEM (only -USB version)

Model "USB" contains a capture system to store images easily on a standard USB-Flash-Stick. The files can be exported in several standard formats to a PC.

IEEE 1394-DV OUTPUT (only -D version)

Model "D" is equipped with an IEEE 1394 output. The camera can be connected directly to a PC (with OHCI compatible controller) to store video files or images with standard software.

RGB-OUTPUT (only -RGB version)

Model "RGB" has an additional RGB output for best colour reproduction.

Delivery contains:

CCU, camera head with 3 meter cable, Mains cable, Y/C cable / BNC cable, User manual, IEEE 1394 cable (only -D version), Remote cable (only -R version), USB-Flash stick (only -USB version), RGB cable (only -RGB version)

HC-1000	H97-200-001
Video system:	PAL, NTSC
CCD-sensor:	1/3" CCD-Chip, 440.000 pixel
Video resolution:	470 TV-lines
Shutter speed:	max. 1 /100.000 sec.
Sensibility:	0,9 lux, f=1,4
Video outputs:	2 x FBAS, 2 x Y/C (S-VHS)
Power supply:	100 - 240 VAC
External dimensions	353 x 103 x 253 mm (W x H x D)
Function	on screen menu
Weight:	4,2 kg, camera head: 65 g
Accessories:	TV-Adapter (f:15 mm, f:21 mm, f:28 mm, f:35 mm), Beamsplitter, Zoom-Adapter, TV-Adapter for flexible Endoscopes (Pentax, Qlympus,Fuji)

Models:

- + IEEE 1394 output. **H97-200-001-D**
- + USB-Stick capture system **H97-200-001-USB**
- + Freeze-board and Remote camera head for Freeze/Live control **H97-200-001-F**
- + RGB output **H97-200-001-RGB**

Options: (on inquiry)

- Remote camera head to control front panel functions or external video devices **-R**
- Footswitch (only for -USB and -F versions) **-S**



Digital 3-CCD Video Camera

HC-3100Z is a 3-CCD video camera of the latest generation with excellent image quality and outstanding colour reproduction for professional requirements. The HC-3100Z can be used for every endoscopic application with high demands. It is easy and flexible to use. Via multifunctional push-buttons on the camera head it is possible to remote more than two camera functions.

The HC-3100Z can be adjusted individually via integrated On-Screen-Menu. Settings are stored in an internal memory. High speed, complete digital image processing, separated for red, green and blue colour channels, enables high end image quality. HC-3100Z camera head is very small and light weightedly designed.

A wide range of different TV-Adapters can be attached to the C-Mount thread to choose the best focus length to the procedure.

HC-3100Z	H97-201-003
Video system:	PAL
CCD-sensor:	3 x 1/3" with 440.000 active pixel
Video resolution:	850 TV-lines horizontal
Shutter control:	1/50 to 1/500000
S/N:	63 db
Sensitivity:	< 1lx
Video system:	NTSC
CCD-sensor:	3 x 1/3" with 380.000 active pixel
Video resolution:	800 TV-lines horizontal
Shutter control:	1/60 to 1/50000
S/N:	64 db
Sensitivity:	< 1lx
Outputs	1 x RGB/COMP 2 x Y/C (only 1 x Y/C at – D) 2 x CVBS 1 x IEEE-1394 output (only – D version)
Settings	On-Screen-Menu
Power supply	100 – 240 VAC
Dimensions (WxHxD)	CCU 353 x 103 x 253 mm Head 30 x 40 x 68 mm
Weight	CCU 4,7 kg Head 115 g
Head	C-Mount thread, immersable two push-buttons for remote high flexible cable: 3 meter (6,5 meter optional)
Class / Type	1 / BF
Manufactured and tested acc.	IEC 601-1 / CE · EN 60601-1 · 93/42 ECC

DIGITAL ZOOM

100-150 %

FLEX FILTER

This electronically FLEX FILTER avoids MOIRÉE Effects when working with flexible fibre endoscopes.

ON-SCREEN MENU

Camera Settings (like contrast, brightness, color, area) can be made in the On-Screen-Menu. Settings are stored in memory.

3 USER SETTINGS STORABLE

AREA FUNCTION

Is a multitude of different brightness measurement fields. Quantity of measurement fields and form of this area is changeable. This Function controls the Shutter-Level for best illuminated picture.

STERILISATION

Camera head with cable and connector (using attached cap) can be immersed in a disinfectant solution.

CHARACTER GENERATOR

Creates on-screen-information on all video outputs by using standard PS2 keyboards (keyboard optional).

DIGITAL VIDEO OUTPUT

Model-"D" is equipped with an digital video output. With IEEE-1394 the camera can be connected directly to a PC (with OHCI compatible controller) to store video files or images with standard software.

MODELS

H97-201-003 Basic Version
H97-201-003 -D include IEEE-1394

Delivery contains

CCU, camera head with 3 meter cable, Mains cable, RGB cable, Y/C cable, BNC cable, User manual, IEEE-1394 cable (only –D version with IEEE-1394 output)

HF-Generators

Easy to use

The main functions of the diathermy unit are divided into different groups to avert any confusion of the user. The most popular settings can be saved with the built in memory function. Easy power adjusting by push buttons.

Four cutting modes

The device can be equipped with four different cutting modes. Pure cut, two different coagulation cutting types and an additional cutting mode for the use under water (TUR).

Four coagulation modes

Soft coagulation and forced coagulation as well as spray and universal coagulation.

Polypectomy and Papillotomy

The system can be equipped with alternating cut and coagulation functions for operations like polypectomy and papillotomy. The polypectomy and papillotomy programm is already integrated into the models HHF 350, HHF 350 A, HHF 350A Thermostapler and HHF 400.

Safety

A specially designed microprocessor is used for monitoring the cutting modus 200 times every second. A built in overload-function is controlling the activation time and protects the system against overheating and other damages. Every time the unit is switched on, it is running through a self test.

More HF-Generators please find in our catalogue "Endoscopic units".



HHF 350	H98-350-000
POWER SUPPLY	
Supply voltage	230 V, 50 Hz
Rated power input	500 W
SAFETY FEATURES	
Protection against electric shock:	
Class	I
Grade	CF
Low-frequency leakage currents	according to IEC 601-1-1
High-frequency leakage currents	according to IEC 601-2-2
Generator operation frequency	357 kHz
Defibrillation impulse resistance	according to EN 60601-1
NEM System	neutral electrode application control
AUTOTEST	self-test of generator and accessories after switching the power on, service codes display
OVERLOAD	generator overload protection
MONOPOLAR CUTTING	
Pure cutting	350 W
Blend cutting I	180 W
Blend cutting II	150 W
Blend cutting III	150 W
Cutting with desiccation	150 W
Cutting in water environment	350 W

MONOPOLAR COAGULATION	
Soft coagulation	180 W
Forced coagulation	180 W
Spray coagulation	80 W
Universal coagulation	80 W
BIPOLAR COAGULATION	
Bipolar coagulation	120 W
Auto-Start / Auto-Stop	automatic start and stop of bipolar coagulation
BIPOLAR CUTTING	
Bipolar cutting (4 different levels of haemostasis)	100 W
Bipolar cutting in water environment	350 W
OTHER FEATURES	
PowerStart System	simplify the beginning of cutting process
SURGILOGIC System	automatic power regulation depends on needs
PP program	alternating cut&coag – endoscopic program
Program memory	9 different memory locations
MultiSwitch	remote program selection with using MultitSwitch footswitch
WEIGHT AND DIMENSIONS	
Length	420 mm
Width	380 mm
Height	160 mm
Weight	9 kg

Delivery contains: HF-Generator
Mains cable
User manual

Foot switch



Doppel-Fußschalter
OP geprüft für
H98-120-000
H98-300-000
H98-350-000
H98-350-001
H98-350-002
H98-350-003
Generatoren

*Double foot switch
OR proofed for
H98-120-000
H98-300-000
H98-350-000
H98-350-001
H98-350-002
H98-350-003
generators*

H98-912-020

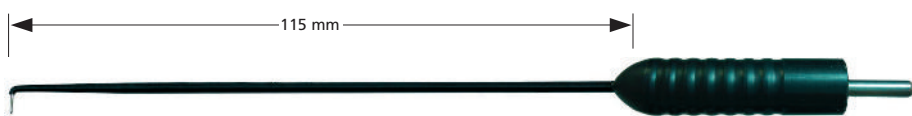


Großer
Doppel-Fußschalter
OP geprüft für
H98-300-000
H98-350-000
H98-350-001
H98-350-002
H98-350-003
Generatoren

*Big double foot
switch
OR proofed for
H98-300-000
H98-350-000
H98-350-001
H98-350-002
H98-350-003
generators*

H98-912-030

Arthroskopie-Elektroden Arthroscopic electrodes



H98-904-501

Nadel 90° abgewinkelt, 1,5 mm, Länge 115 mm, Ø 0,6mm	<i>Needle angled 90°, 1,5 mm, length 115 mm, Ø 0.6 mm</i>
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H98-904-502

Nadel 90° abgewinkelt, 4 mm, Länge 115 mm, Ø 0,6mm	<i>Needle angled 90°, 4 mm, length 115 mm, Ø 0.6 mm</i>
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H98-904-503

Messer 45° abgewinkelt, 4 mm, Länge 115mm	<i>Knife angled 45°, 4 mm, length 115mm</i>
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H98-904-505

Tastelektrode 90° abgewinkelt, 4 mm, Länge 115 mm, Ø 1,5 mm	<i>Keying electrode angled 90°, 4 mm, length 115 mm, Ø 1,5 mm</i>
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H98-904-506

Kugelelektrode, Länge 115 mm, Ø 3 mm	<i>Ball electrode, length 115 mm, Ø 3 mm</i>
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Stecker Geräteseite,
passend für Hermann-,
Martin-, Berchtold-Geräte
*Plug, generator side for
Hermann-, Martin-,
Berchtold-generators*



Stecker Instrumentenseite,
6-kant
*Plug, instrument side,
hexagon coding*

Anschlußkabel	3 m	H98-903-130
Connecting cable	5 m	H98-903-150

Arthroscopy pump

The arthroscopic pump ensures that you have a clear view of the operation area, thanks to continuous rinsing. Control is realised by an automatic pressure regulator that adapts the flow to pressure conditions. Pressure can be set continuously to suit the operation, facilitating the operative intervention considerably. Pressure loss compensation is realised both rapidly and with great precision.

Perfected technology and excellent workmanship are your guarantee of superior quality and a long service life.



	H94-100-000
Power supply	230 V AC / 50 Hz
Max power consumption	90VA
Pressure setting range	0-280 mm Hg
Pressure control	electronical
Protection class	1 / Type BF
Dimensions	323x165x267 mm (WxHxD)
Weight	12 kg
Accessories	
Tube System (patient part)	H94-100-100
Tube System (pump part)	H94-100-101
Pressure sensor „sterile“ (disposable)	H94-100-102



Shaver-System

The shaver system is designed for operative interventions involving small and large joints. It consists of a control unit, hand piece and a pedal switch.

User comfort is greatly enhanced, enabling optimum working results. The direction of rotation and rotation speed can be set directly on the control unit or with the pedal switch. The pedal switch is covered with non-slip material and sealed against the effects of liquids.

The hand piece runs extremely quietly, and its excellent shape characteristics greatly facilitate use while reducing hand fatigue. Suction capacity is greatly enhanced, and the complete hand piece can also be autoclaved.

	H93-000-000
Power supply	230 VAC
Frequency	50 Hz
Fuse	2 x 3 AT Automat
Protection class	1, Type B
Dimensions	323 x 118 x 267 mm (W x H x D)
Weight	6 kg
Mode of operation	Intermittent operation with short time loading of 3 minutes



Foot switch	H93-000-102
Dimensions	280 x 53 x 220 mm (W x H x D)
Weight	3 kg
Mode of operation	Clockwise, Counterclockwise, Oscillation, Speed Level Adjustment













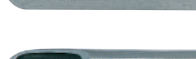





Hand piece	H93-000-100	H93-000-101	H93-000-103
Length	165 mm	165 mm	165 mm
Weight	475 g	475 g	475 g
Speed range	700 / 1400 / 2100 / 2800 / 3500 rpm	1000 / 2000 / 3000 / 4000 / 5000 rpm	1000 / 1500 / 2000 / 2500 / 3000 / 5000 / 8000 rpm
Oscillating Cycle	1,2 s	1,2 s	1,2 s

Case for Shaver-System **H93-000-104**

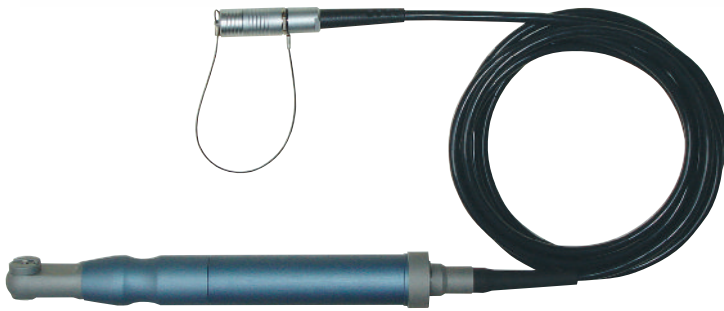
Shaver Blades

Useable for Hermann-, Linvatec/Concept-, Arthrex-, Atlantec- und Friatec-Shaver

Pck.-unit 5pcs.

			autoclavable / completely stainless steel			
			Ø 2.5 mm	Ø 3.5 mm	Ø 4.2 mm	Ø 5.5 mm
	Aggressive Full-Radius Resector	straight	H93-025-000	H93-035-000	H93-042-000	H93-055-000
	Meniscus Cutter	straight	H93-025-001	H93-035-001	H93-042-001	H93-055-001
	Full-Radius Resector	straight	H93-025-002	H93-035-002	H93-042-002	H93-055-002
	Incisor	straight	H93-025-003	H93-035-003	H93-042-003	H93-055-003
	Trimmer	straight	H93-025-007	H93-035-007	H93-042-007	H93-055-007
	Round Burr	straight	-	-	H93-042-004	H93-055-004
	Tapered Burr	straight	-	-	-	H93-055-005
	Oval Burr	straight	-	-	-	H93-055-006
			sterile single use			
	Aggressive Full-Radius Resector	straight curved 15° curved 30°	H93-125-000 - -	H93-135-000 H93-135-100 H93-135-200	H93-142-000 H93-142-100 H93-142-200	H93-155-000 H93-155-100 H93-155-200
	Meniscus Cutter	straight curved 15° curved 30°	H93-125-001 - -	H93-135-001 H93-135-101 H93-135-201	H93-142-001 H93-142-101 H93-142-201	H93-155-001 H93-155-101 H93-155-201
	Full-Radius Resector	straight curved 15° curved 30°	H93-125-002 - -	H93-135-002 H93-135-102 H93-135-202	H93-142-002 H93-142-102 H93-142-202	H93-155-002 H93-155-102 H93-155-202
	Incisor	straight curved 15° curved 30°	H93-125-003 - -	H93-135-003 H93-135-103 H93-135-203	H93-142-003 H93-142-103 H93-142-203	H93-155-003 H93-155-103 H93-155-203
	Trimmer	straight curved 15° curved 30°	H93-125-007 - -	H93-135-007 H93-135-107 H93-135-207	H93-142-007 H93-142-107 H93-142-207	H93-155-007 H93-155-107 H93-155-207
	Round Burr	straight	-	-	H93-142-004	H93-155-004
	Tapered Burr	straight	-	-	-	H93-155-005
	Oval Burr	straight	-	-	-	H93-155-006





Saw for Shaver-System

	H93-000-120
Length	190 mm
Weight	450 g
Speed range	18.500 rpm/min
Water proof	yes
Autoclavable	yes
Cable length	3 m
Maintenance free	yes
Power supply from the Shaver unit	yes



Drilling machine for Shaver-System

	H93-000-130
Length	165 mm
Weight	840 g
Speed range	100 / 250 / 400 / 550 / 700 rpm/min
Includes drill chuck key	yes
Water proof	yes
Autoclavable	yes
Cable length	3 m
Maintenance free	yes
Power supply from the Shaver unit	yes

Printer



	H98-000-001 (SONY UP-21MD)
Printing Method	Colour dye-sublimation
Resolution	403 dpi (1664 dots)
Colour gradations	256 gradations for yellow, magenta, cyan; over 16.7 million colours per dot
Paper size	A6 S-Format 100 x 90 mm A6 L-Format 144 x 100 mm
Printed area	S format Full frame 95.8 x 72.4 mm Dual split 68.3 x 47.5 mm L format Full frame 126.9 x 91.5 mm Dual split 87.7 x 63.2 mm Quadruple split 63.5 x 45.7 mm
Print Speed	UPC-21S approx. 16 seconds UPC-21L approx. 25 seconds
Remote Controller	Remote 1 (Special mini jack) for optional RM-5500 unit Remote 2 (3,5mm mini jack) for optional RM-91, FS-20/FS-36 units RS-232C (D-sub 25-pin) for external computer
Frame memory	4 frame memory*
Inputs/Outputs	Video, S-Video, RGB
Power requirements	100-120 V, 50/60 Hz 220-240 V, 50/60 Hz
Power Consumption	100-120 V: 1.8 A, 220-240 V: 1.0 A
Dimensions (WHD)	212 (W) x 125 (H) x 395 (D) mm
Mass	approx. 6.5 kg
Safety standards	UL2601-1, CSA C22.2 No. 601.1, EN60601-1 CE: LVD, MDD

DVD Recorder

	H98-100-002 (Panasonic LQ-MD800)
Power supply	AC 100-240 V, 50/60 Hz
Current consumption	0.51 - 0.28 A
Recording System	DVD Video Recording Standards (DVD-RAM) DVD Video Standards (DVD-R)
Recordable discs	DVD-RAM 12 cm (4.7 GB/9.4 GB) DVD-R 12 cm (4.7 GB) for General Ver. 2.0 DVD-R 12 cm (4.7 GB) for General Ver. 2.0 4 x SPEED DVD-R Revision 1.0
Recording Time	Maximum 4 hours (with 4.7 GB disc)
Playable discs	DVD-RAM 12 cm (4.7 GB/9.4 GB) DVD-R 12 cm (4.7 GB) for General Ver. 2.0 DVD-R 12 cm (4.7 GB) for General Ver. 2.0 4 x SPEED DVD-R Revision 1.0
Dimensions	214 (W) x 102 (H) x 365 (D) mm
Weight	4.6 kg
Video System	NTSC color signal, 525 Lines, 60 Fields PAL color signal, 625 Lines, 50 Fields
Recording system	MPEG2 (Hybrid VBR)
Video In	BNC x 1 1.0 Vp-p 75 Ω, unbalanced S-Video in (4P) x 1 Y: 1.0 Vp-p 75 Ω, unbalanced C: 0.286 Vp-p. burst level 75 Ω, unbal. (NTSC) C: 0.3 Vp-p. burst level 75 Ω, unbal. (PAL) DV-input x 1 IEEE1394 Standard, 4pin (PAL/NTSC)
Video Out	BNC x 2 1.0 Vp-p 75 Ω, unbalanced S-Video in (4P) x 1 Y: 1.0 Vp-p 75 Ω, unbalanced C: 0.286 Vp-p. burst level 75 Ω, unbal. (NTSC) C: 0.3 Vp-p. burst level 75 Ω, unbal. (PAL) Component video output (BNC) (NTSC 480P/480i) (PAL 576i) Y: 1.0 Vp-p 75 Ω, unbalanced PB: 0.7 Vp-p 75 Ω, unbalanced PR: 0.7 Vp-p 75 Ω, unbalanced
Recording System	Dolby Digital 2ch, Linear PCM 2ch (XP/SP mode)
Audio In	Phono x 2, Reference Level, -10 dBV, 47 kΩ unbalanced, MIC in (mini jack) x 1 - 50 bV, 3 kΩ unbalanced
Audio Out	Phono x 2, Reference Level, -10 dBV, 600 Ω unbalanced, Monitor Out (Phono) x 1 - 10 dBV, 600 Ω unbalanced, Headphones Out (Stereo mini jack) x 1, Variable Level, Maximum, -28 dBV, 8 Ω unbalanced
Remote	USB Ver. 1.1 (cable length max. 3 m) RS-232C (D-sub 9 pin) Pause Remote (Stereo mini jack)

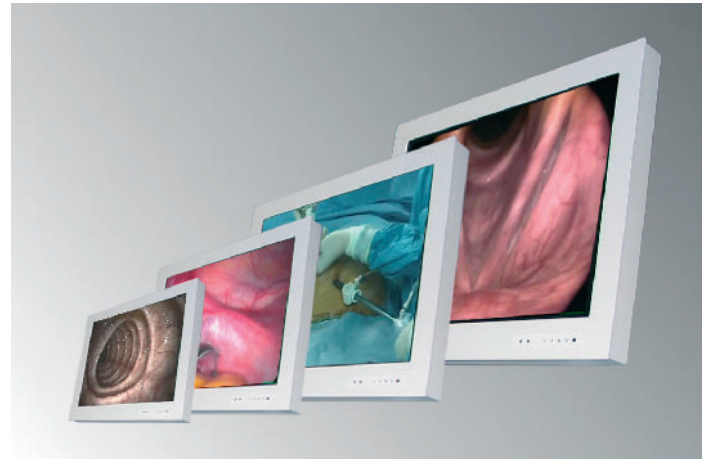
Medical-LCD-Monitors

15" = H96-200-015

17" = H96-200-017

19" = H96-200-019

21.3" = H96-200-021



LCD-Display	Diagonal	15.0	17.0	19.0	21.3	Inch
	Visible area (X x Y)	304 x 228	337.9 x 270.3	376.3 x 301	432 x 324	mm
	Colour / Monochrome / Aspect ratio	s / - / 4:3	s / - / 5:4	s / - / 5:4	s / - / 4:3	
	Native resolution / Other resolutions	XGA	SXGA	SXGA	UXGA	
	Resolution	1024 x 768	1280 x 1024	1280 x 1024	1600 x 1200	
	Pixel pitch	0.297 x 0.297	0.264 x 0.264	0.294 x 0.294	0.270 x 0.270	mm
	No. of colours / Grey scale values	16.2 M / 256	16.7 M / 256	16.7 M / 256	16.7 M / 256	unit
	Brightness / High brightness version	430 / -	280 / -	250 / -	300 / -	cd/m ²
	Contrast	500 : 1	1500 : 1	1000:1	1000:1	
	Vision angle H / V	178 / 178	178 / 178	178 / 178	178 / 178	degree
	Response time (on / off) TR + TF	12	6	8	6	ms
Timing	VGA / Video / TV	s / s / -	s / s / -	s / s / -	s / s / -	
Inputs / Outputs	RGB analogue / DVI digital / USB	1 x s / 1 x s / -	s / s / -	s / s / -	s / s / -	
	Remote operation (RS-232)	-	s	s	s	
Video standards	PAL, PAL-M, NTSC, SECAM, HD-TV	s / s / s / s / -	s / - / s / s / -	s / - / s / s / -	s / - / s / s / -	
	FBAS / S-VHS / Components / Audio	1 x s / 1 x s / -	s / s / - / o	s / s / - / o	s / s / - / o	
	Image storage, PiP, PbP, zoom	- / s / -	s / s / - / s	s / s / - / s	s / s / - / s	
Housing	Desktop / Dual monitor / Quadmonitor	s / o / o	s / o / o	s / o / o	s / o / o	
	Integration panel, rack, chassis	on request	on request	on request	on request	
	Mobile carrycase systems	o	o	o	o	
	Customer specification	o	o	o	o	
Housing material	Sheet steel / Stainless steel / Aluminium / Plastic	o / o / s / o	o / o / s / o	o / o / s / o	o / o / s / o	
Surface	Powder coated / Painted / Anodized	o / s / o	o / s / o	o / s / o	o / s / o	
Housing colour	RAL 9002, or customer specification	s / o	s / o	s / o	s / o	
VESA adaption	For adaption to any OP arm	75 x 100	100	100	100	
Installation examples	Wall mounting / Base support	s / s	s / s	s / s	s / s	
	Ceiling mounting / Support arm system	s / s	s / s	s / s	s / s	
Screen properties	Colour neutral, non-reflective/Laminated screen	s / o	s / o	s / o	s / o	
Operation	Membrane keyboard OSD, German / English	s / s	s / s	s / s	s / s	
	Touchscreen / IR remote control	o / o	o / o	o / o	o / o	
	Works setting / Quick-OSD	s / s	s / s	s / s	s / s	
Power supply	Medical power unit complying with EN 60601-1	s	s	s	s	
	100 - 240 AC / 50 - 60 Hz	s	s	s	s	V

Legend: s = Standard, o = Option, - = not available, Q = Quarterly



Tischfuß
Table base support
H96-200-100



Höhenverstellbarer
Tischfuß
*Table base support with
height adjustment*
H96-200-101



Wandhalter
Wall mounting
H96-200-102



Höhenverstellbarer
Wandhalter
*Wall mounting with
height adjustment*
H96-200-103



Ein-Gelenkarm
*Articulated arm
single-jointed*
H96-200-104



Zwei-Gelenkarm
*Articulated arm
double-jointed*
H96-200-105

Trolleys



Picture: Comfort-Model

BASIC-Model

H99-000-000

- 5 deposit spaces
(continuously variable, each 50kg load capacity)
- 1 drawer
- Castors, Ø100mm, antistatic
- Power distributor
- Cable duct vertical

COMFORT-Model

H99-000-001

- 5 deposit spaces
(continuously variable, each 50kg load capacity)
- 1 drawer
- Castors, Ø125mm, antistatic
- Power box with network distributor
- Cable duct vertical / horizontal
- Handlebar

Accessories for Trolleys



Power Box with isolating transformer 2000 VA, NTC

H99-000-101

consists of:

- 1 X Power Box, complete
- 1 X Isolating transformer 2000 VA, 8 plug-in sockets, NTC starting current limiter
- 8 X POAG pin
- 1 X Assembly manual/description



Horizontal cable duct Type Basic-Model Type Comfort-Model

H99-000-100

H99-000-107

- Supplements the vertical cable duct of the chassis to make a closed system
- Optimal cable routing on the rear-side of the trolley
- Removable cover for free access
- Variable cable entry through sealing lip
- Powder-coated, impact and scratch-resistant surface
- Resistant to disinfectants
- With cable winding aid
- Recommendation: one horizontal cable duct per storage surface



Bottle holder

H99-000-102

- For holding 5l and 10l bottles, max. Ø 145 mm
- 2-part
- Secured with tension strap
- Variable height adjustment

Accessories for Trolleys



Standard rail 10 X 25 **H99-000-103**

For side-mounting
on the front T-slot of the vertical profile
Variable height adjustment
With adapter
Maximum load: 10 kg
Length: 375 mm



Camera holder **H99-000-104**

For holding the camera head,
mounting on the front T-slot of the vertical profile
Variable height adjustment
Surface: black



Console, 2-arms **H99-000-105**

For extending the storage surfaces
laterally on the equipment trolley
With large 400 mm swivelling radius of action
Storage surface 310 X 310 mm
With two multifunction holders
For mounting on the front T-slot of the vertical profile
Variable height adjustment
Maximum load: 20 kg
(Caution! Danger of tipping over)



Vertical earth leakage monitor for isolating transformer

H99-000-106

Standards and certification:

Protection class I product

Conformity and product verification according to the EU Medical Products Directive 93/42 EEC (Appendix I and Appendix VII)

Approval under EN 61 558-2-4 and EN 60 601-1

CE mark

Product Features:

System with integrated interface, retrofittable, expandable

Tasks:

Resistance measurement:

The device checks the insulation resistance of non-earthed alternating current networks. The operator is given a visual and acoustic warning when individual components fail.

Temperature monitoring:

Overload triggers the visual and acoustic warning.

Self check:

The isolation monitoring device automatically carries out a selfcheck at regular intervals. The operator is warned visually and by a signal tone if there is an accident.

Technical Data:

Triggering value 50 kOhm

Test resistance 42 kOhm

Power supply voltage 230 V

Input voltage 90 - 250 V

Alternating current, internal resistance 220 kOhm

Direct current, internal resistance 320 kOhm

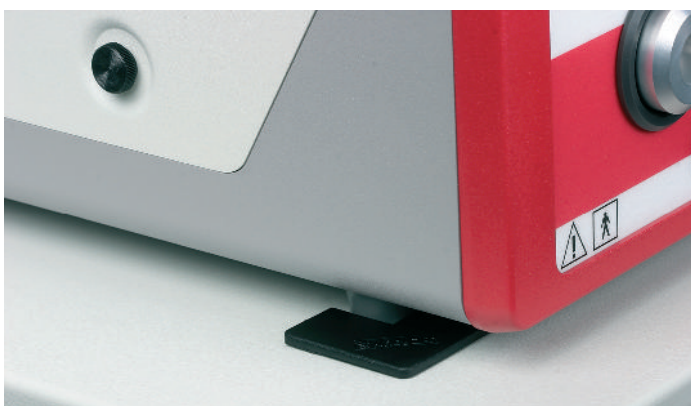
Measuring direct voltage 12 V

Peak value of measuring current 0,5 mA

Maximum permissible external direct voltage 250 V DC

Connecting cable 5 X 0,75 mm² with pin strip (for connecting to isolating transformer) Length of 3 m

Interface Plug connection to isolating transformer



FIX-Pos Stand Security Corner Set **H99-000-108**

For attachment to cross piece, consoles, basic drawer

For preventing the installed equipment from slipping

Customized adaptation to your equipment

Surface: black

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H24-90325	17	H60-278-23	7	H60-352-56	10	H60-357-21	7	H61-273-36	6	H61-351-51	8
H24-90330	17	H60-278-36	7	H60-353-10	6	H60-357-23	7	H61-274-10	7	H61-351-52	8
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H25-10320	17	H60-279-21	7	H60-353-23	6	H60-357-36	7	H61-274-23	7	H61-351-55	10
H25-10325	17	H60-279-23	7	H60-353-24	6	H60-357-37	7	H61-274-36	7	H61-351-56	10
H25-10330	17	H60-279-36	7	H60-353-36	6	H60-357-38	7	H61-275-10	7	H61-351-57	10
H25-70320	17	H60-350-12	8	H60-353-37	6	H60-357-39	7	H61-275-21	7	H61-351-58	10
H25-70325	17	H60-350-13	9	H60-353-38	6	H60-357-50	9	H61-275-23	7	H61-352-10	6
H25-70330	17	H60-350-14	9	H60-353-39	6	H60-357-51	9	H61-275-36	7	H61-352-21	6
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H25-90325	17	H60-350-40	10	H60-353-56	10	H60-358-21	7	H61-277-10	7	H61-352-38	6
H25-90330	17	H60-350-42	10	H60-354-10	7	H60-358-23	7	H61-277-21	7	H61-352-39	6
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H55-003-46	13	H60-350-46	10	H60-354-24	7	H60-358-37	7	H61-278-10	7	H61-352-52	8
H60-001-48	13	H60-350-47	10	H60-354-36	7	H60-358-38	7	H61-278-21	7	H61-352-55	10
H60-270-20	12	H60-351-10	6	H60-354-37	7	H60-358-39	7	H61-278-23	7	H61-352-56	10
H60-270-21	12	H60-351-12	8	H60-354-38	7	H60-358-50	9	H61-278-36	7	H61-353-10	6
H60-270-22	12	H60-351-13	9	H60-354-39	7	H60-358-51	9	H61-279-10	7	H61-353-21	6
H60-270-23	12	H60-351-14	9	H60-354-50	9	H60-358-52	9	H61-279-21	7	H61-353-23	6
H60-270-40	10	H60-351-21	6	H60-354-51	9	H60-358-55	11	H61-279-23	7	H61-353-24	6
H60-271-10	6	H60-351-23	6	H60-354-52	9	H60-358-56	11	H61-279-36	7	H61-353-36	6
H60-271-21	6	H60-351-24	6	H60-354-55	11	H60-359-10	7	H61-350-12	8	H61-353-37	6
H60-271-23	6	H60-351-28	8	H60-354-56	11	H60-359-21	7	H61-350-13	9	H61-353-38	6
H60-271-36	6	H60-351-30	8	H60-355-10	7	H60-359-23	7	H61-350-14	9	H61-353-39	6
H60-272-10	6	H60-351-32	8	H60-355-21	7	H60-359-24	7	H61-350-28	8	H61-353-50	8
H60-272-21	6	H60-351-34	8	H60-355-23	7	H60-359-36	7	H61-350-30	8	H61-353-51	8
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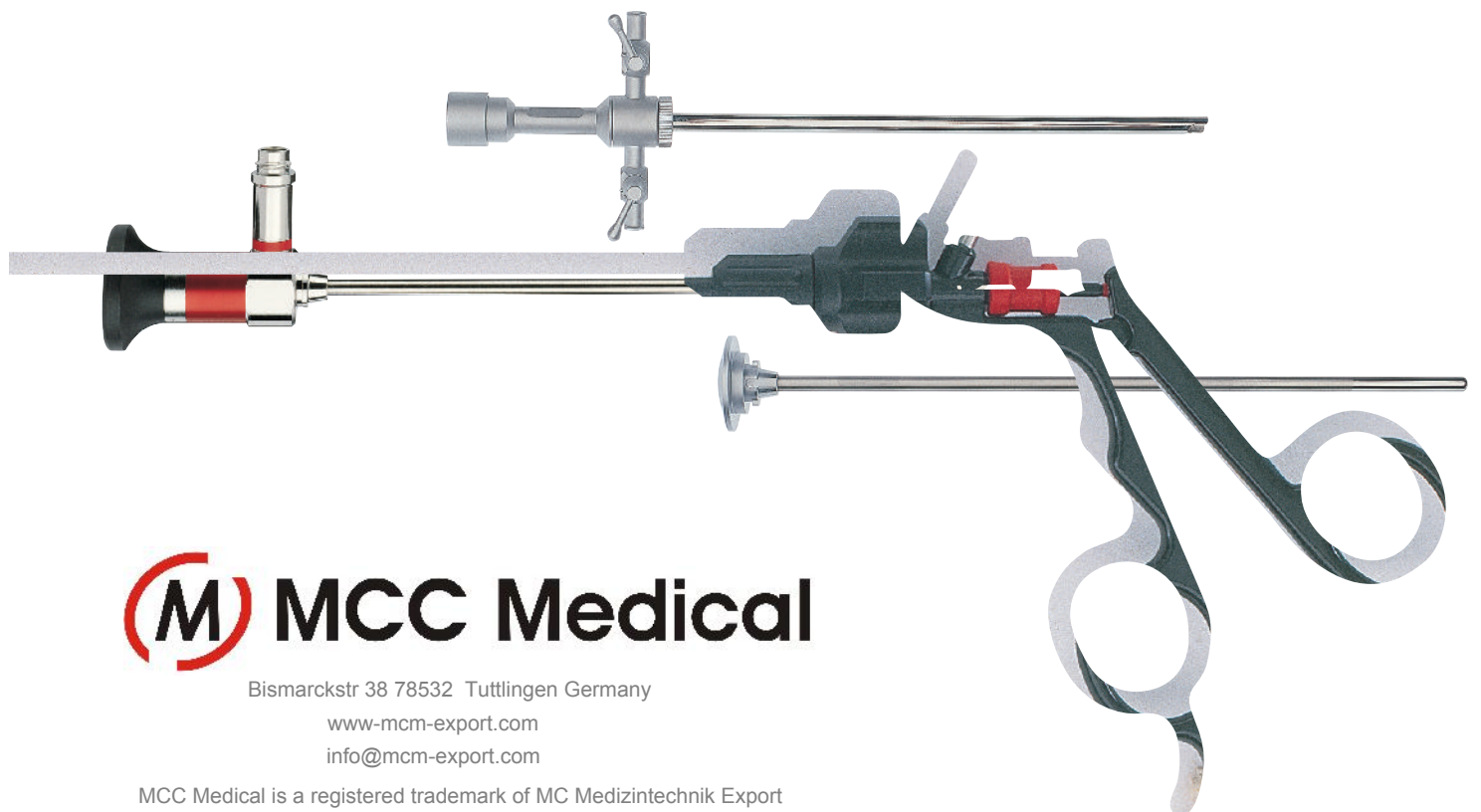
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H69-0200	15	H80-140-1482	21	H93-000-103	34	H93-142-004	35	H97-250-001	23		
H69-0425	15	H80-140-165	21	H93-000-104	34	H93-142-007	35	H97-250-002	23		
H69-0435	15	H80-227-30	19	H93-000-120	36	H93-142-100	35	H97-250-003	23		
H69-1000	15	H80-227-31	19	H93-000-130	36	H93-142-101	35	H97-250-100	23		
H69-1100	15	H80-227-32	19	H93-025-000	35	H93-142-102	35	H97-250-101	23		
H69-1200	15	H80-240-1475	21	H93-025-001	35	H93-142-103	35	H97-250-200	23		
H69-1390	15	H80-240-164	21	H93-025-002	35	H93-142-107	35	H97-250-201	23		
H69-1445	15	H80-307-31	20	H93-025-003	35	H93-142-200	35	H97-250-300	23		
H69-1500	15	H80-307-32	20	H93-025-007	35	H93-142-201	35	H97-250-301	23		
H69-1600	15	H80-307-33	20	H93-035-000	35	H93-142-202	35	H97-250-400	23		
H69-1700	15	H80-307-34	20	H93-035-001	35	H93-142-203	35	H98-000-001	37		
H69-1830	15	H80-407-31	20	H93-035-002	35	H93-142-207	35	H98-100-002	37		
H69-1930	15	H80-407-32	20	H93-035-003	35	H93-155-000	35	H98-350-000	30		
H69-2030	15	H80-407-33	20	H93-035-007	35	H93-155-001	35	H98-903-130	32		
H69-2050	15	H80-407-34	20	H93-042-000	35	H93-155-002	35	H98-903-150	32		
H69-2070	15	H80-408-00	20	H93-042-001	35	H93-155-003	35	H98-904-501	32		
H69-3030	15	H80-408-01	20	H93-042-002	35	H93-155-004	35	H98-904-502	32		
H69-3070	15	H80-408-02	20	H93-042-003	35	H93-155-005	35	H98-904-503	32		
H69-4030	15	H80-408-03	20	H93-042-004	35	H93-155-006	35	H98-904-505	32		
H69-4050	15	H80-408-04	20	H93-042-007	35	H93-155-007	35	H98-904-506	32		
H69-4060	15	H84-027-000	22	H93-055-000	35	H93-155-100	35	H98-912-020	31		
H80-027-30	19	H84-027-030	22	H93-055-001	35	H93-155-101	35	H98-912-030	31		
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H80-031-0030	18	H84-040-045	22	H93-055-005	35	H93-155-200	35	H99-000-101	41		
H80-031-02	18	H84-040-070	22	H93-055-006	35	H93-155-201	35	H99-000-102	41		



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