

# Aesculap Power Systems

## HiLAN® XS

Pneumatic High Speed Motor System



HiLAN® XS – size redefined

# XS – the format

## Micro design – perfection in every detail

Revolutions start with small things. The extremely small HiLAN® XS power system is one of the trailblazers of the new generation of miniaturized surgical instruments, reflecting the trend towards ever smaller access and the demand for improved visibility of the operation site.

The HiLAN® XS motor concept is the result of an uncompromising development effort. The objective was to design particularly small, extremely light-weight, ergonomic handpiece shafts and a novel motor concept, which delivers the same power as the much larger predecessors. The result is an impressive combination of an elegant design and maximum precision: HiLAN® XS.

# XS

[The Design]





Unmistakable –  
in every respect



#### HiLAN® XS SYSTEM ADVANTAGES

- easy handling
- keyless assembly
- high performance, starting  
already at 6 bar / 87 psi
- very quiet
- no intraoperative  
lubrication required
- compatible with low-speed  
systems and skull perforator
- suitable for mechanical  
cleaning

# XS – the motor

## Micro motor technology – patented intelligence

At the heart of the HiLAN® XS system is a small bundle of power – an excellent combination of light-weight construction, simplicity and performance. Even at a low supply pressure, the HiLAN® XS motor is extremely reliable and powerful.

Thanks to the new, patented motor concept, an extremely long service life with an undiminished performance and speed of 100,000 rpm at 8 bar can be achieved, without having to rely on intraoperative lubrication. The motor is simply sprayed through with Sterilit Hi oil spray GA536 prior to autoclaving. All exhaust air is returned to the wall connection. The emergency stop on the motor prevents any accidental activation.

# XS



GA740R



GA508R

### SPEED AND PRECISION: THE HIGH-SPEED MOTOR GA740R

- 100.000 rpm at 8 bar
- 90.000 rpm at 6 bar
- excellent long term running capabilities
- extremely quiet
- safety stop

### OPTIONAL VERSATILITY: THE UNIQUE ANGLED HOSE ADAPTOR GA508R

The innovative angled hose adaptor offers a choice between a straight or angled hose connection. It is compatible with all HiLAN® motors.



## A system for all applications

HiLAN® XS, Perforator Driver and microLAN® 100

A motor system covering all needs from high speed to low speed. An exceptionally wide range of accessories including low speed saws provides the right instrument for every situation.

### The technology

HiLAN XS motors –  
large in performance, small in size.



GA522R  
with GB106R

RELIABLE MOTOR PERFORMANCE  
WITHOUT COMPROMISE:  
THE POWERFUL PERFORATOR DRIVER  
GA522R

- suitable for all common safety perforators
- powerful 3.4 Nm at only 6 bar (Illustration with Hudson chuck GB106R)



GA553

UNIVERSAL AND POWERFUL:  
THE MICROLAN® 100  
GA553

- 100 watt
- max. 20.000 rpm
- micro handpieces for sawing, milling and drilling
- suitable for use with existing micro-Line handpieces
- left/right rotation with safety stop

# XS – the handpieces

## Hi-Line XS handpieces – precision in your hand

Easy handling is the future. The handpieces are perfectly formed, with handles shaped for a safe grip and significantly smaller shafts. The ergonomic XS handpieces ensure easy handling in every situation and improve visibility deep into very narrow accesses.

Quick handpiece changes – even with a burr inserted – help to reduce surgical procedure time. The simple ring coding system allows a clear identification of handpiece and associated burrs.

### New – automatic burr coupling

The burr is inserted into the handpiece and locked automatically. For unlocking, the blue slide is simply pulled back.

# XS



GB741R



GB742R



GB743R



GB740R



GB751R



GB752R



GB753R

## The handpieces



GB756R



GB757R



GB758R



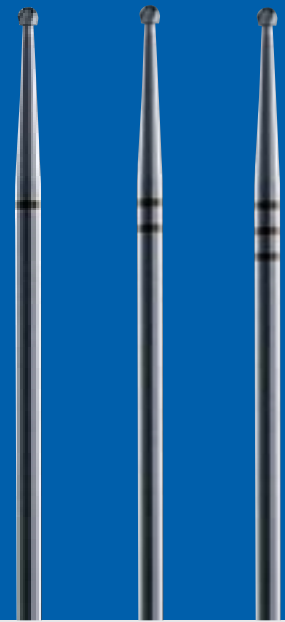
All illustrations in original size

ARTICLE NO.	DESCRIPTION
GB761R	Spray nozzle short I
GB762R	Spray nozzle medium II
GB763R	Spray nozzle long III

# Hi-Line XS – the burrs

## Burr technology – extremely fast, extremely precise

Under extreme conditions such as in high speed operation, everything depends on reliable precision. Years of uncompromising development work resulted in high-quality materials, extremely smooth running and optimum cutting characteristics of each Hi-Line XS burr.



The proven ring coding system allows the clear identification of each burr and its appropriate handpiece.

# XS



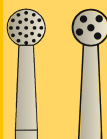
### ROSEN BURRS

	ø 1,0	ø 1,4	ø 1,8	ø 2,3	ø 2,7	ø 3,1	ø 4,0	ø 5,0	ø 6,0
I	GE401R	GE402R	GE403R	GE404R	GE405R	GE406R	GE407R	GE408R	GE409R
II	GE501R	GE502R	GE503R	GE504R	GE505R	GE506R	GE507R	GE508R	GE509R
III			GE603R	GE604R	GE605R	GE606R	GE607R	GE608R	GE609R



### DIAMOND BURRS




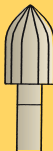



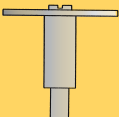


	ø 1,0	ø 1,4	ø 1,8	ø 2,3	ø 2,7	ø 3,1	ø 4,0	ø 5,0	ø 6,0
I	GE411R	GE412R	GE413R	GE414R	GE415R	GE416R	GE417R	GE418R	GE419R
II	GE511R	GE512R	GE513R	GE514R	GE515R	GE516R	GE517R	GE518R	GE519R
III			GE613R	GE614R	GE615R	GE616R	GE617R	GE618R	GE619R



### DIAMOND BURRS

	COARSE		EXTRA COARSE	
	ø 2,3	ø 3,1	ø 4,5	ø 6,0
I	GE424R	GE425R	GE426R	GE427R
II	GE524R	GE525R	GE526R	GE527R
III	GE624R	GE625R	GE626R	GE627R



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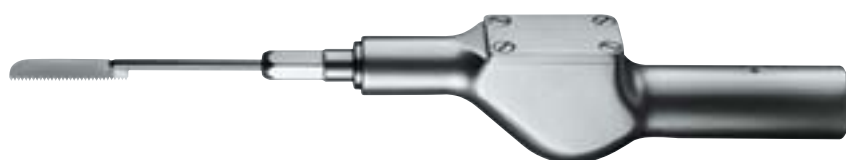
## micro-Line – proven versatility at low speed

The micro-Line range offers a wide variety of low speed saws and handpieces.



**GA553**  
microLAN® 100, max. 20,000 rpm, 100 watt

# XS



GB130R



GB129



GB128R

### RECIPROCATING SAW

#### GB130R

- incl. Key TA4634
  - spray nozzle GA223R
- (Saw blades to be ordered separately)

### SAGITTAL SAW GB129

- for saw blades up to 50 mm usable working length
  - inc. key TE472 and nut GB125 804
  - spray nozzle GA222R
- (saw blade to be ordered separately)

### TRANSVERSAL SAW

#### GB128R

- inc. key TE470, bolt GB020R
  - spray nozzle GA221R
- (saw blade to be ordered separately)



GD305



GD307

**MICRO RECIPROCATING SAW GD305**

- keyless saw blade coupling
- incl. saw blade GD320R
- spray nozzle GD306R

**MICRO SAGITTAL SAW GD307**

- captive nut
- incl. key GD372 206
- spray nozzle GD308R (saw blade to be ordered separately)



**GB113**  
reduction 30:1



**GB111**  
reduction 4:1

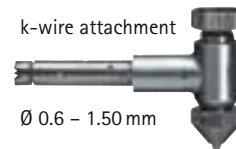


**GB119**  
reduction 2:1



internal cooling

**GB193**  
reduction 2:1



k-wire attachment

Ø 0.6 - 1.50 mm

**GB154**  
reduction 2:1



GB106R



GB105R



**SKULL PERFORATORS**

Ø 6/9mm	Ø 9/12mm	Ø 12/15mm	chuck for GA522R
GB300R	GB302R	GB304R	GB106R Hudson chuck
GB301R	GB303R	GB305R	GB105R Jacobs chuck, up to 6.35 mm, with key GA031

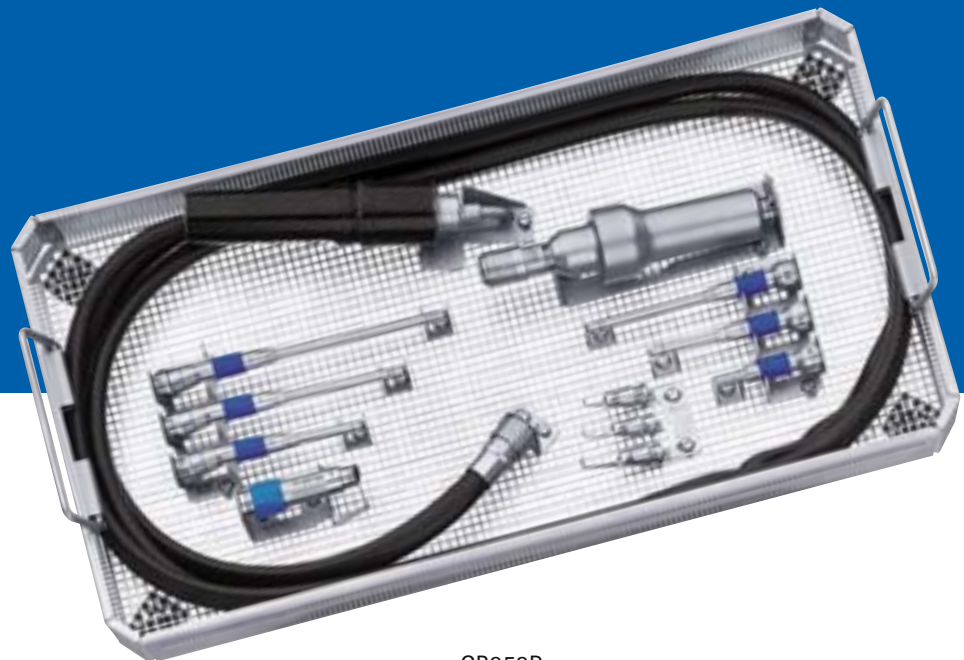
**Spare cutters**

TE561	TE562	TE563
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## ECCOS® – the comfortable hygiene concept

Reprocessing motors and accessories has never been so comfortable and uncomplicated.

The system remains in specially developed ECCOS® holders during the entire application and reprocessing cycle. The complete, loaded ECCOS® baskets can be mechanically cleaned and autoclaved.



### GB252R

With this ECCOS® set the complete HiLAN® XS system can be clearly laid out in one basket. It can be adjusted to personal needs, e.g. using the ECCOS® holders for burrs or safety perforators.

#### GB252R ECCOS® SET FOR HiLAN® XS

ART. NO.	DESCRIPTION	
JF213R	Perforated basket 70 mm	1
GB610R	Holder for HiLAN® XS motor GA740R	1
GB561R	Holder for HiLAN® perforator driver GA522R	1
GB614R	Holder for 3 Hi-Line XS handpieces GB751R-GB753R, GB756R-GB758R, GB740R	2
GB615R	Holder for 3 Hi-Line XS dura guard GB741R – GB743R	1
GB564R	Holder for air hose GA513R	1

(illustrated motor, handpieces and hose are not included)



## Maintenance concept Sterilit® oil spray

Lubricating the HiLAN® XS system is a simple and safe affair. The motor and handpieces are sprayed through with the Sterilit Hi oil spray GA536 before each sterilization cycle. The result is proven sterility even beneath the oil film.

Complete lubrication of the motor and handpieces is ensured, making permanent intraoperative lubrication unnecessary.

## Care and maintenance

Additional ECCOS® holders

■ **GB572R**

Holder for Aesculap skull perforator



■ **GB613R**

Holder for Hi-Line XS burs



■ **GB577R**

Holder for HiLAN XS motor with angled hose adapter mounted.



■ **GA536**

Sterilit® Hi oil spray for high speed handpieces and motors

not illustrated:

■ **GB149**

Sterilit® M oil spray for low speed handpieces



# HiLAN® XS

## The HiLAN® system

# XS

Low speed handpieces and other accessories can be found in:

■ Power Systems Catalogue O22711

■ Burrs and Blades Catalogue O17599



GA740R



GA519



GA520R



GA530



GA523R (2,3m)



GA553



GA522R



GA529



#### ACCESSORIES

- GA530 HiLAN® irrigation pump
- GA381R Punch for 1,000-ml bottle with Euro-thread
- GA382R Punch for 1,000-ml bottle with rubber stop
- GA383R Punch for 500-ml bottle with rubber stop
- GA525 Reusable irrigation tubing with fixation clips
- GA526P Fixation clips, pack of 8 pcs.



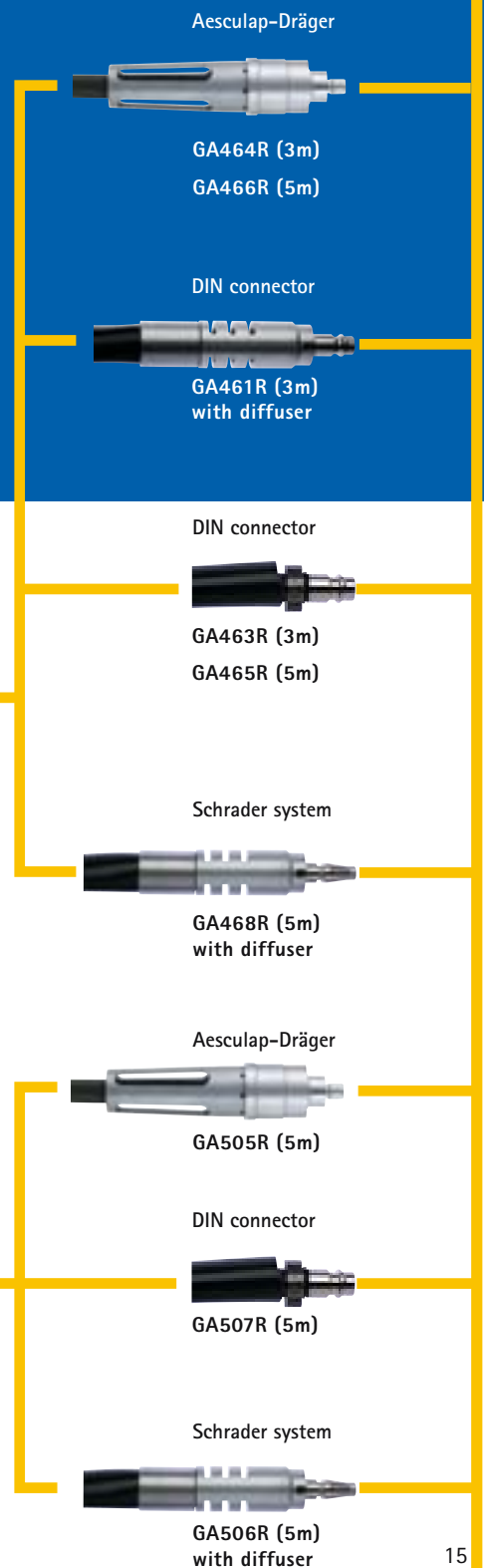
GA464R (3m)



GA513R (3m)



GA521





AESCULAP®

**B | BRAUN**  
SHARING EXPERTISE

**Aesculap AG & Co. KG**

Am Aesculap-Platz  
78532 Tuttlingen  
Germany

Phone +49 7461 95-0  
Fax +49 7461 95-2600

[www.aesculap.de](http://www.aesculap.de)

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