

# HiLAN<sup>®</sup> XS

Pneumatic High Speed Power System



Aesculap Power Systems

AESCULAP<sup>®</sup>

## Micro design – perfection in every detail

### [The Design]

Revolutions start with small things.

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.

\*See instructions for use for additional information including warnings and precautions, which can be found at [www.aesculapusa.com](http://www.aesculapusa.com).



Unmistakable –  
in every respect

## The first reversible pneumatic high speed motor

### [System advantages]

- 90,000 rpm at 120 psi
- Completely keyless assembly
- Simple burr and handpiece correlation by ring coding
- Safety stop preventing inadvertent activation
- Extremely quiet
- No intraoperative lubrication required
- Compatible with low speed systems and cranial perforator
- Titanium motor housing
- Suitable for mechanical cleaning



### [Fascinating Technology]

At the heart of the HiLAN XS system is a small, compact power drive – an excellent combination of light-weight construction, simplicity and performance.

Thanks to the new, patented motor concept, an extremely long service life with an undiminished performance and speed of 90,000 rpm at 120 psi can be achieved, without having to rely on intraoperative lubrication. The motor is simply sprayed with Sterilit® Oil Spray prior to autoclaving.

GA740R  
HiLAN® XS Pneumatic High Speed  
Motor

0 – 90,000 rpm at 120 psi  
for HiLAN® XS handpieces

# HiLAN® Power Systems

## HiLAN high speed power systems with hand control

### [Power]

The ideal hand controlled drive – the HiLAN motor GA529 offers the same power and reliability as the model HiLAN XS and is compatible with all Hi-Line and Hi-Line XS handpieces.



- GA529  
HiLAN® High Speed Motor with  
hand control

0 – 90,000 rpm at 120 psi  
for Hi-Line and Hi-Line XS  
handpieces

- GA508R  
Angled Hose Adapter

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

HiLAN

## [Ergonomics]

### Perforator Driver



The new Perforator Driver cannot fail to impress with its novel ergonomic concept. It allows the surgeon to grip the driver as far distally as possible, offering optimum control of the unit.

- Hudson Chuck for all standard cranial perforators
- Powerful torque of 3.6 Nm



**GA742R**  
**HiLAN® Perforator Driver**

0 – 800 rpm, 3.6 Nm torque  
for cranial perforators with  
Hudson Shank

# Hi-Line XS Handpieces

Hi-Line XS

## Craniotome and multipurpose handpiece

Handpiece

### [Advantages]

The multi-purpose handpiece offers a comfortable feel, providing precise control.

A unique design supports a variety of attachments.

- Fixed and turnable dura guards
- Support sleeve for reaming
- Drill depth guard for controlled drilling



GB740R

## Attachments

Support Sleeve  
for reaming

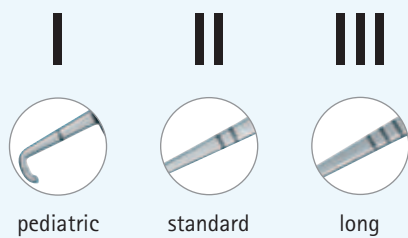


▲ GB745R

Drill Depth Guard for controlled  
pilot drilling  
Drilling depth: 2-8 mm adjustable



▲ GB744R

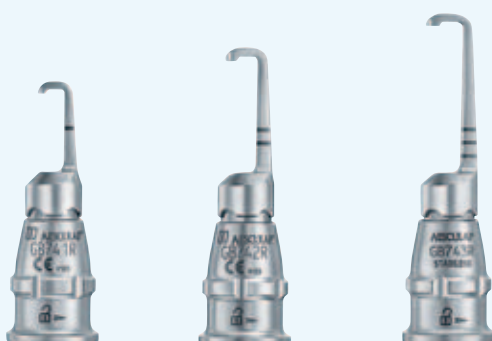


pediatric

standard

long

Fixed Dura Guards

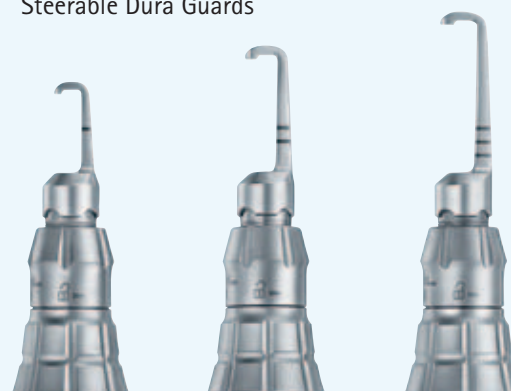


I  
GB741R

II  
GB742R

III  
GB743R

Steerable Dura Guards



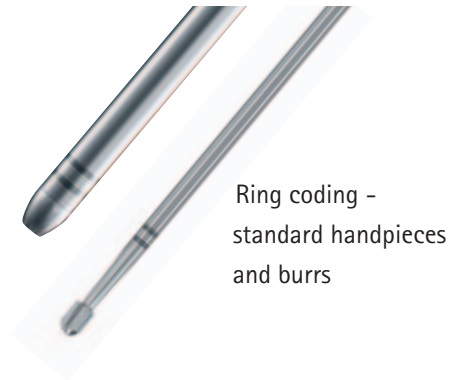
I  
GB746R

II  
GB747R

III  
GB748R

## Standard handpieces

The proven user-friendly ring coding system allows simple and clear identification of handpiece and associated burs.



I  
GB751R

II  
GB752R

III  
GB753R



I  
GB756R

II  
GB757R

III  
GB758R



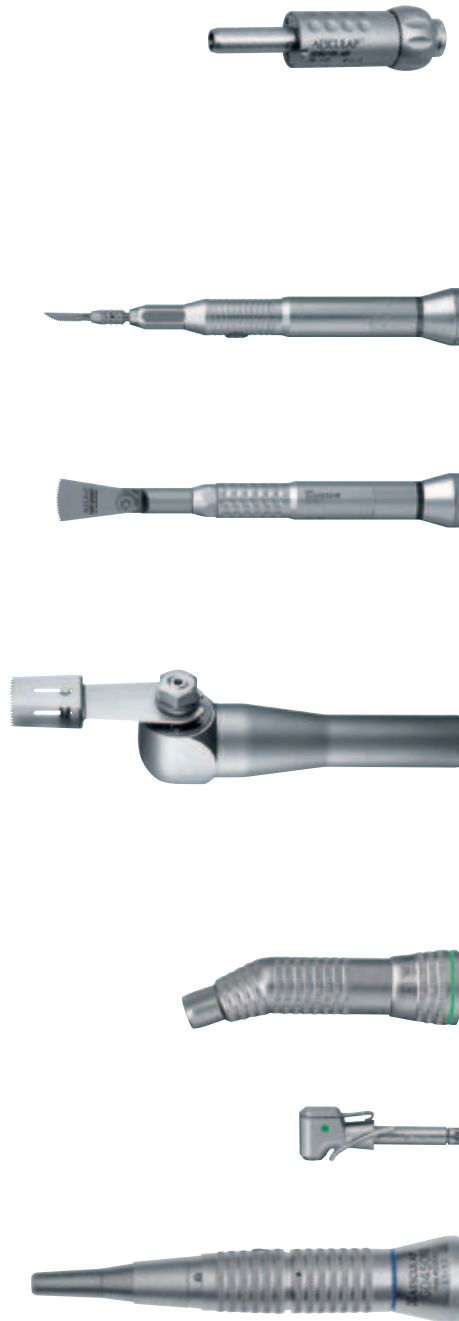
## Extra long handpieces



# Low Speed and Accessories

## micro-Line

### micro-Line – proven variety for low speed



Additional low speed accessories can be found in the *Power Systems Catalog* (DOC692) and the *Power Systems Burrs & Blades Catalog* (DOC714).

#### Motor

- **GA553 microLAN 100**
  - 0 – 20,000 rpm, 100 watt
  - Including Sterilit® spray adapter micro-Line GB600810 and Sterilit spray adapter Hi GB600820

#### Attachments

- **GD305 Micro Reciprocating Saw**
  - Keyless coupling of the saw blade
  - Including saw blade GD320R
  - Spray nozzle GD306R (not included)
- **GD307 Micro Sagittal Saw**
  - Captive nut
  - Including key GD372 206
  - Spray Nozzle GD308R (not included)
- **GB129R Sagittal Saw**
  - For saw blades with a working length of up to 50 mm
  - Including key TE472 and nut GB125 804
  - Spray Nozzle GD222R (not included)
  - (not suited for 60 watt motors)
- **GB111 Angled Handpiece**
  - Reduction ratio 4:1
- **GB119 Contra Angled Head**
  - Reduction ratio 2:1
  - For GB111
  - Tool connection: dental
- **GD450M Handpiece**
  - Gear ratio 1:1 for 70 mm burs
  - Shaft diameter 2.35 mm



#### GA742R HiLAN® Perforator Driver

- 0 – 800 rpm
- 3.6 Nm
- Hudson Chuck
- Including Sterilit® spray adapter Hi GB600820



#### GA530 Irrigation Pump

GA530	HiLAN® Irrigation Pump
US431	Disposable tubing set with spike
GA526P	Silicone clips for attaching the tubing set to the air hose Pack of 8 pcs. (reusable)



#### Spray Nozzles

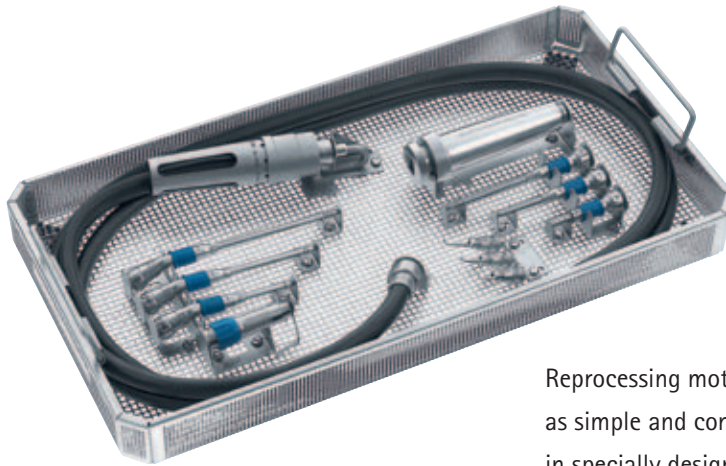
Spray nozzle	Length of handpiece
GB767SU	GB740R
GB761SU	I
GB762SU	II
GB763SU	III
GB764SU	XLI
GB765SU	XLII
GB766SU	XLIII

# Processing and Maintenance

HiLAN XS

ECCOS™ – Longevity for your investment

## — [Mechanical Reprocessing]



■ GB252R ECCOS Set for HiLAN® XS

Reprocessing motors and accessories has never been as simple and convenient as this. The system remains in specially designed ECCOS holders during the entire application and reprocessing cycle. The complete, loaded ECCOS baskets can be mechanically cleaned in a single chamber washer and autoclaved.

## — [Manual Reprocessing]

- MD842 Storage System
  - Safe for steam sterilization
  - Helps prevent damage to instruments
  - Each handpiece, motor and hose has its own location within the basket
  - Entire set can be sterilized in a single container





## Maintenance concept – Sterilit® Oil Spray

Lubricating the HiLAN® XS system is simple and safe for the product. The motor and handpieces are sprayed with the Sterilit Oil Spray before each sterilization cycle.

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

### Care

- GB600 Sterilit® Power Systems Oil Spray 300 ml; ☞ 6



- GB600820 Spray Adapter for HiLAN, HiLAN XS, microLAN motors and perforator drivers; Hi-Line and Hi-Line XS handpieces



- GB600810 Spray Adapter for micro-Line handpieces



### Additional Products



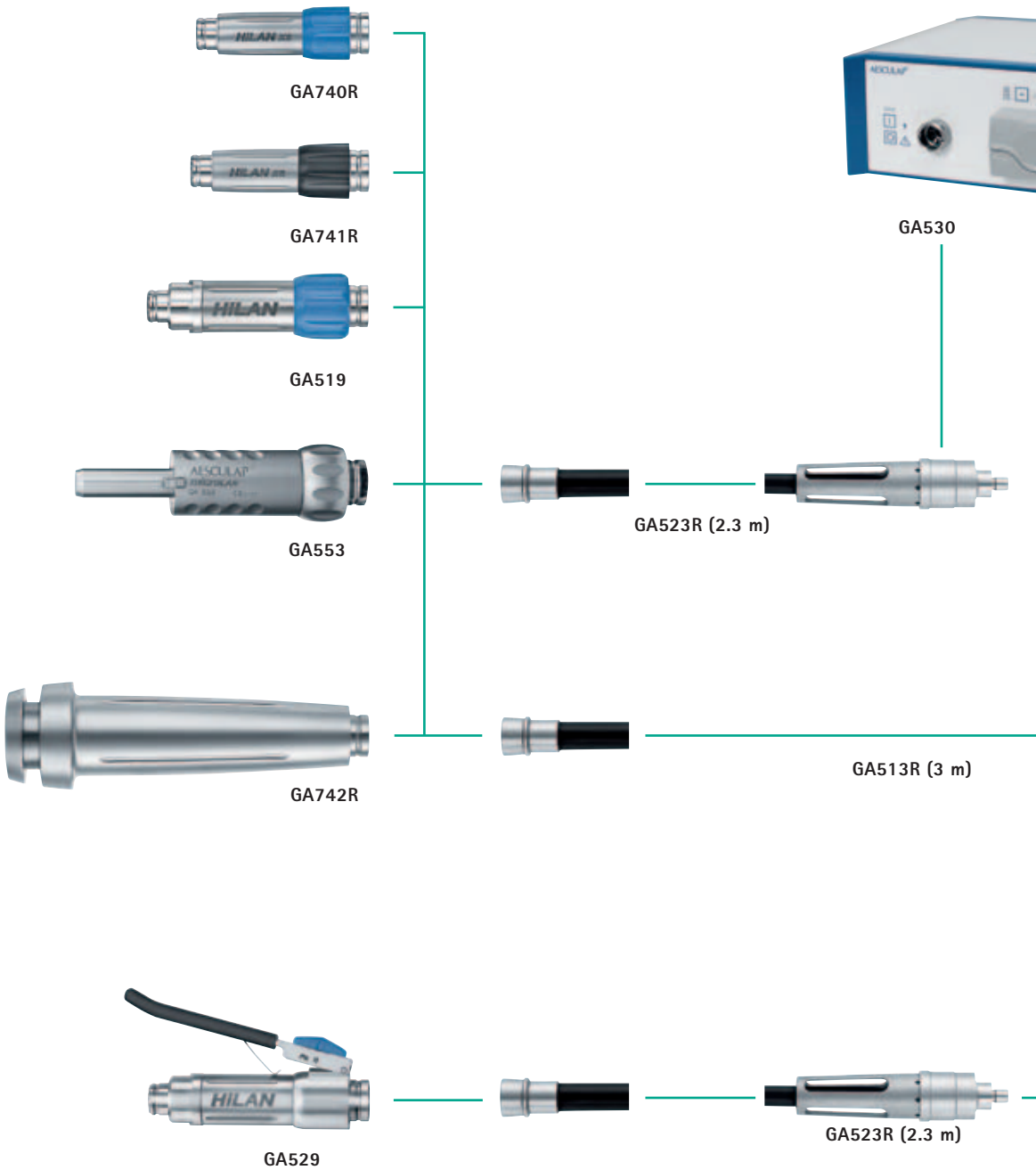
Pneumatic Kerrison Brochure—DOC793



microspeed® uni Brochure—DOC703, Rev. A

# System Setup

HILAN<sup>®</sup> XS





recommended operating  
pressure: 6–10 bar (87–145 psi)



GA464R (3 m)



GA521



Schrader system



GA468R (5 m)  
with air diffuser



GA530



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