

# Endoscopic Spinal Drill System

# 2014 - Endoscopic Spine Drill System's



# HighSurg30

The reliable alternative for performing bony resection

As part of the new generation of the Nouvag Surgical Motor Systems the HighSurg11 was developed for a precise and powerful endoscopic surgery.

The conciliatory treatment of patients by minimally invasive surgical technics in conjunction with endoscopy was the central part in the development of this new Motor System with it's bigger brother, HighSurg30

*The HighSurg burr systems permits resection of bone under direct endoscopic visualisation!*  
*"an almost unique system!"*

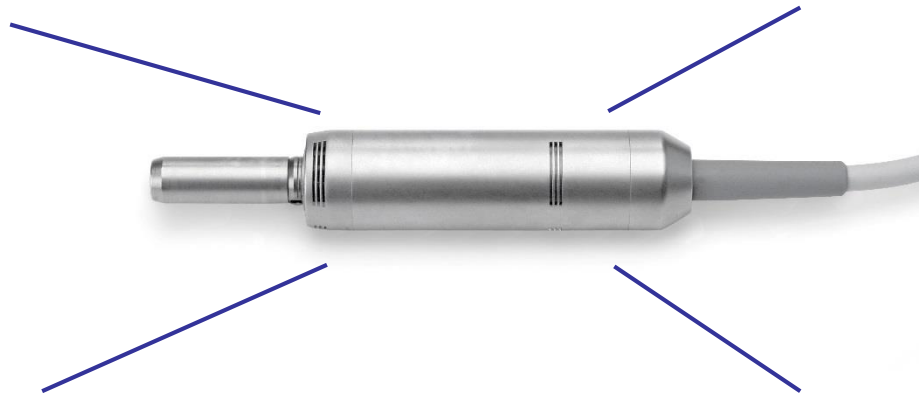


### **Ergonomically and handily**

Light weight construction guarantees an ergonomic, fatigue-proof working even for longer or more complicated surgical procedures.

### **Precisely and long-lived**

Stainless steel ensures a high reliability and economic life time.



### **High performance torque**

High torque in connection with the wide speed range (300 up to 50'000 rpm) offer a maximum flexibility to be able to fulfil the increasing demands.

### **Autoclavable, brush less micro motor**

The microprocessor-controlled electronic motor 21 ESS is suitable for periodical sterilisable cycles.



## Good reasons for the HighSurg30

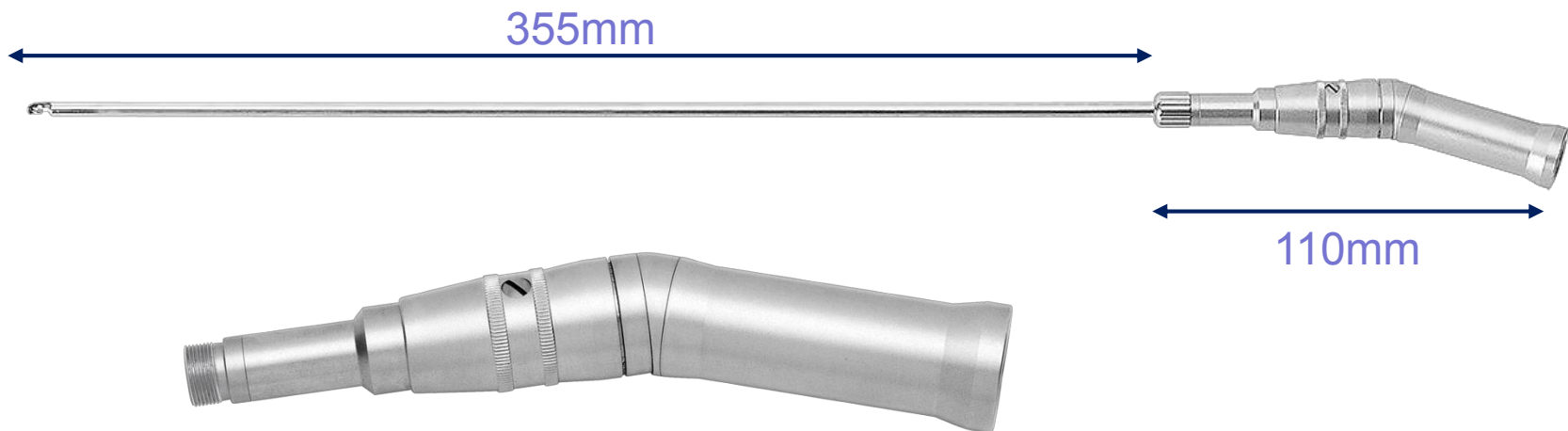
- ✓ best price / performance ratio
- ✓ integrated peristaltic pump
- ✓ clearly arranged display with all information at a glance
- ✓ front electronic motor sockets
- ✓ high performance with up to 50'000 and powerful torque for open surgery
- ✓ strong and fast oscillating Shaver Mode up to 5'000 rpm
- ✓ ergonomic housing, light and compact, easy to clean
- ✓ fine tuned sophisticated motor management for best precision and comfort
- ✓ Configuration Menu to individually personalize the control unit

## Spinal Surgery attachment

### Standard Angled Handpiece

Ergonomic and lightweight Endoscopic Handpiece “angled” for various spinal burrs.

Handpiece length of 110 mm and 1:1 transmission for maximum power at distal tip. Insert burrs easily, simple and safe with quick lock coupling system.

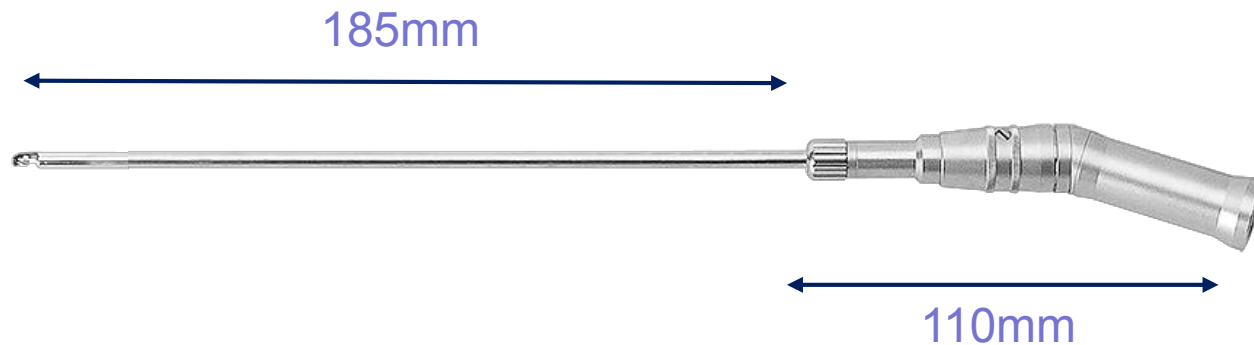


## Spinal Surgery attachment

### Stenosis “short” System

Ergonomic and lightweight Endoscopic Handpiece “angled” for short stenosis spinal burrs.

Handpiece length of 110 mm and 1:1 transmission for maximum power at distal tip. Insert burrs easily, simple and safe with quick lock coupling system.



## Spinal Surgery attachment

### Support sleeves

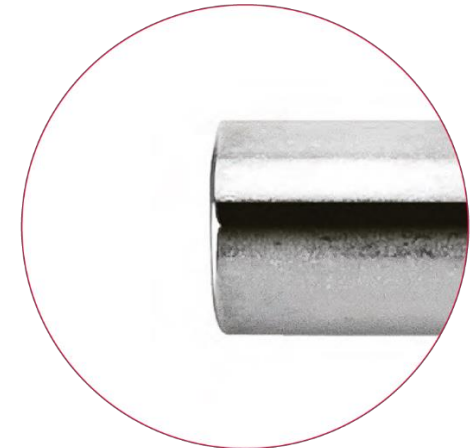
Two different support sleeves are available to guarantee the best possible protection at every situation, especially designed for use through the working channel of 3.7mm or 4.1mm



**with distal protection**



**without distal protection**





## Spinal Surgery attachment

### Burr tips

Spinal burrs with a total length of 355 mm / 200mm Medium

- Diamond coated 3.0mm / 3.7mm / 4.0mm
- Spherical Rose burr 3.0mm / 3.5mm



Stenosis burrs with a total length of 185 mm

- Diamond coated 5.0mm
- Spherical Rose burr 5.0mm
- Conus Burr 4.00mm



*Not the size you are looking for? Ask us, we are flexible*

## Spinal Surgery attachment

### Burr tips

- Optimal burr visualization through spine endoscope due to optimal designed burr diameter
- Up to 30'000 rpm for fast resection
- Bone will be resected quickly and precisely
- Single use type also available on request

