



Power Tools for Neurosurgery

HighSurg 30

High speed Neurosurgical Motor System





Intuitive

Versatile

Reliable

Nouvag AG has been successfully developing and manufacturing world leading high-tech instruments for more than 50 years. Their high efficiency and reliability have made these instruments to be worldwide highly recommended by surgeons.

The latest breakthrough of Nouvag AG is the new generation of the surgical motor system HighSurg 30. This motor system is primarily used in Neurosurgery with it's time saving, efficient Dual Motor Principal. Connect two Micro Motors and attach the desired handpiece for convenient work!

Cranial Perforator handpiece

1200 rpm

The cranial perforator of Nouvag AG is one of perforators with the highest torque on the market. The solid appearance with its stable mechanics reflects reliability and longevity, Made in Switzerland.

Designed for single use, the NouvaCut single use perforators attachments provide increased safety and eliminate the costs of cleaning and reprocessing, as well as resharpening. NouvaCut single use perforator attachments with automatic locking system are available in 4 diameters and with 2 different drilling depths, each of a 1 mm (pediatric) and a 3 mm (adult).



Cranial-Perforator handpiece, REF: 1924nou

Single use perforators

| REF | inner/outer Ø | Skull bone thickness | Adults | Child | Color |
|------|---------------|----------------------|--------|-------|--------|
| 1978 | 6 mm / 9 mm | 1 mm | | • | gray |
| 1920 | 6 mm / 9 mm | 3 mm | • | | gray |
| 1977 | 7 mm / 11 mm | 1 mm | | • | purple |
| 1976 | 7 mm / 11 mm | 3 mm | • | | purple |
| 1979 | 9 mm / 13 mm | 1 mm | | • | blue |
| 1921 | 9 mm / 13 mm | 3 mm | • | | blue |
| 1980 | 11 mm / 14 mm | 1 mm | | • | orange |
| 1922 | 11 mm / 14 mm | 3 mm | • | | orange |

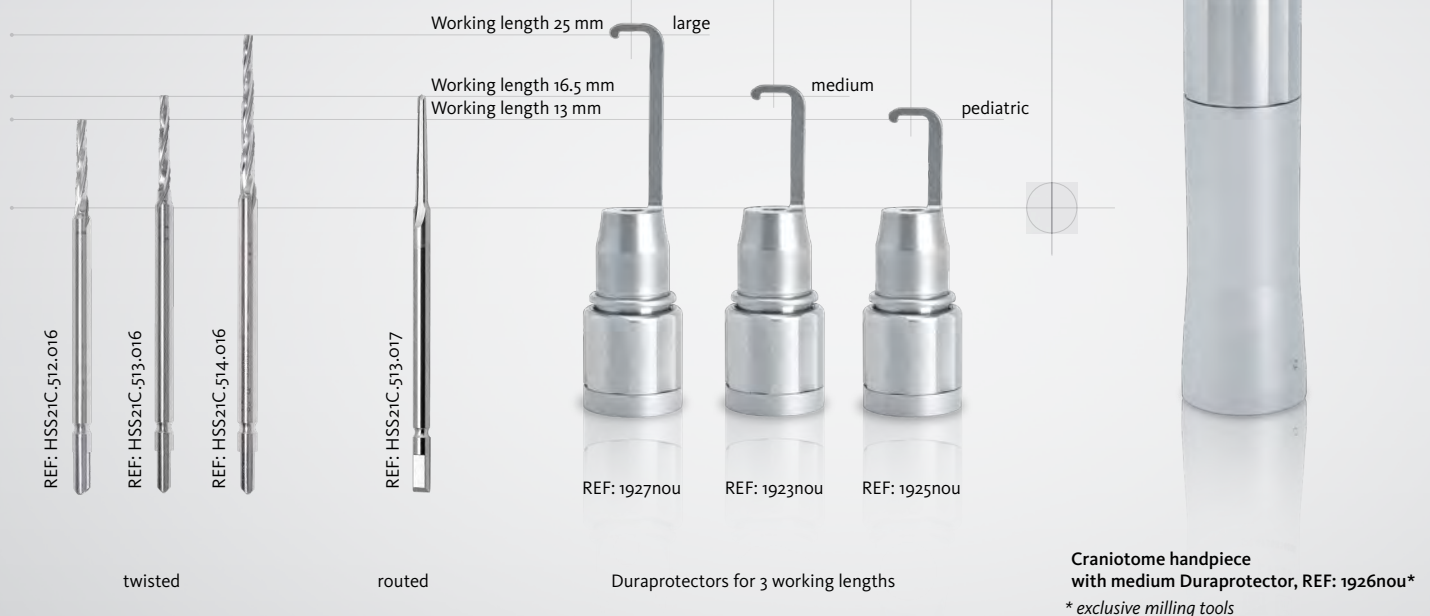
Craniotome handpiece

60 000 rpm

After the cranial perforation with the Cranial Perforator, the Craniotome is used. With the clamped milling tool in the Craniotome the burr holes can be connected and the bone plate can be lifted, exposing the Dura for the intended intervention.

The cranial drilling and milling tools are available in 3 sizes and two versions. The Craniotome with attached Duraprotector prevents damage to the dural layer and other parts of the brain during the milling process.

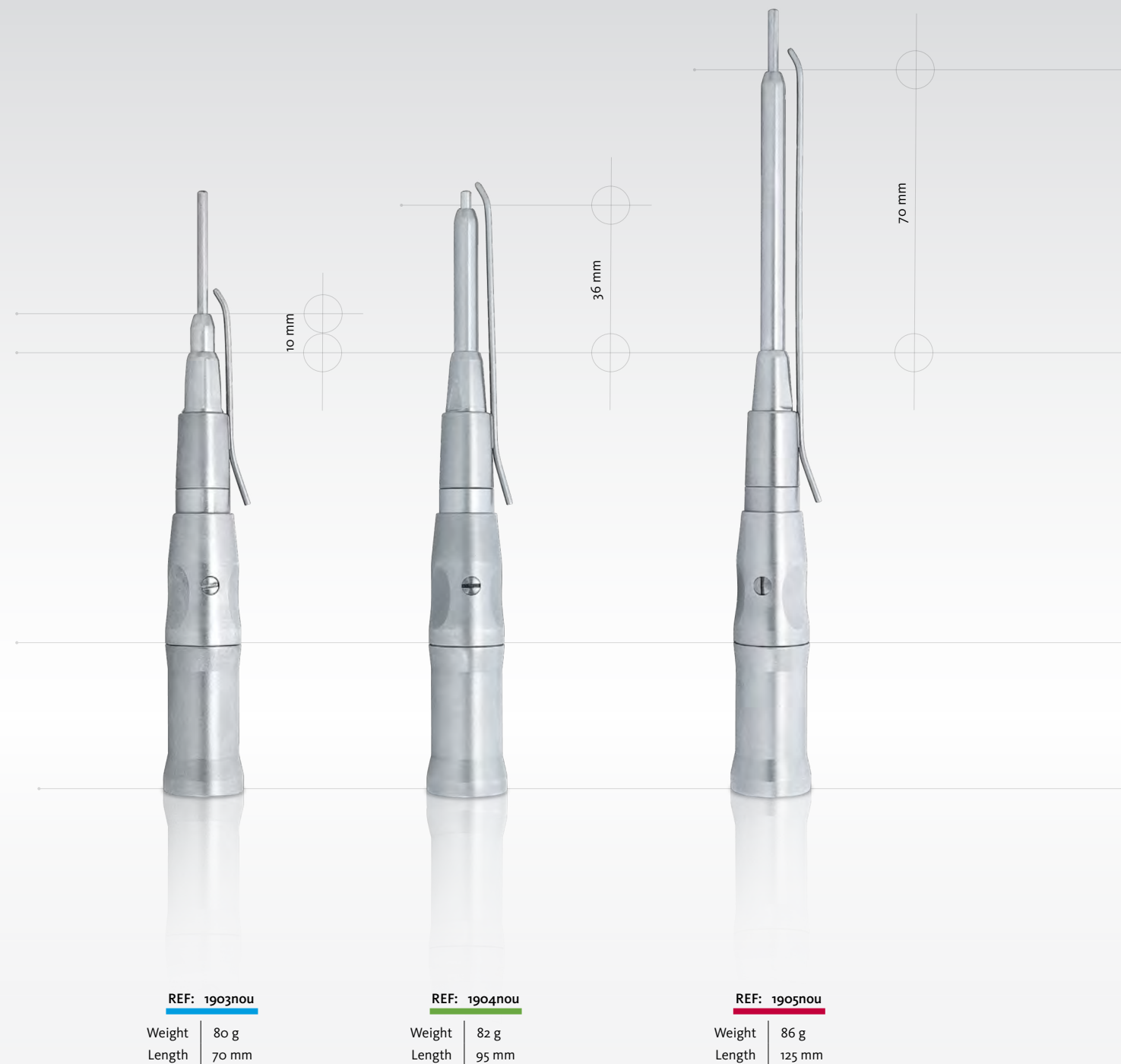
The high-tech Craniotome of Nouvag AG was developed with the highest safety standards and best functionality in mind.



Surgical high speed handpieces

80 000 rpm

The slim high speed handpieces are available in various lengths in straight and angled versions. The quick coupling handpieces are perfectly balanced with low vibration for a fatigue free working in various types of operations.





REF: 1908nou

| | |
|--------|--------|
| Weight | 114 g |
| Length | 125 mm |

REF: 1907nou

| | |
|--------|-------|
| Weight | 110 g |
| Length | 95 mm |

REF: 1906nou



| | |
|--------|-------|
| Weight | 108 g |
| Length | 70 mm |

High speed drills for high speed handpieces









| | Head Ø, mm | Number of flutes | Shank length 70 mm REF burr: | Shank length 95 mm REF burr: | Shank length 125 mm REF burr: |
|-----------------------|------------|------------------|---------------------------------|---------------------------------|----------------------------------|
| Rose burr, Steel | 0.8 | 6 | HSS236.561.008 | • | • |
| | 1.0 | 12 | HSS236.561.010 | • | • |
| | 1.4 | 8 | HSS236.561.014 | HSS236.562.014 | HSS236.563.014 |
| | 1.8 | 8 | HSS236.561.018 | HSS236.562.018 | HSS236.563.018 |
| | 2.3 | 8 | HSS236.561.023 | HSS236.562.023 | HSS236.563.023 |
| | 2.7 | 10 | HSS236.561.027 | • | • |
| | 3.1 | 10 | HSS236.561.031 | HSS236.562.031 | HSS236.563.031 |
| | 4.0 | 12 | HSS236.561.040 | HSS236.562.040 | HSS236.563.040 |
| | 5.0 | 12 | HSS236.561.050 | HSS236.562.050 | HSS236.563.050 |
| | 6.0 | 14 | HSS236.561.060 | HSS236.562.060 | HSS236.563.060 |
| Rose burr, Carbide | 0.5 | 6 | HSM236.561.005 | • | • |
| | 0.8 | 6 | HSM236.561.008 | • | • |
| | 1.0 | 6 | HSM236.561.010 | • | • |
| | 1.4 | 6 | HSM236.561.014 | • | • |
| | 1.8 | 6 | HSM236.561.018 | • | • |
| | 2.3 | 6 | HSM236.561.023 | • | • |
| | 2.7 | 8 | HSM236.561.027 | • | • |
| | 3.1 | 8 | HSM236.561.031 | • | • |
| | 3.5 | 8 | HSM236.561.035 | • | • |
| | 4.0 | 10 | HSM236.561.040 | HSM236.562.040 | HSM236.563.040 |
| | 5.0 | 12 | HSM236.561.050 | HSM236.562.050 | HSM236.563.050 |
| | 6.0 | 14 | HSM236.561.060 | • | • |
| | 7.0 | 16 | HSM236.561.070 | • | • |

High speed Diamond Burr

| | Head Ø, mm | Shank length 70 mm REF burr: | Shank length 95 mm REF burr: | Shank length 125 mm REF burr: |
|------------------------------------|------------|---------------------------------|---------------------------------|----------------------------------|
| Diamond ball burr | 0.6 | HS242.561.006 | • | • |
| | 0.8 | HS242.561.008 | • | • |
| | 1.0 | HS242.561.010 | HS242.562.010 | • |
| | 1.4 | HS242.561.014 | HS242.562.014 | • |
| | 1.8 | HS242.561.018 | • | • |
| | 2.3 | HS242.561.023 | HS242.562.023 | HS242.563.023 |
| | 2.7 | HS242.561.027 | • | • |
| | 3.1 | HS242.561.031 | • | HS242.563.031 |
| | 3.5 | HS242.561.035 | HS242.562.035 | • |
| | 4.0 | HS242.561.040 | HS242.562.040 | HS242.563.040 |
| | 4.5 | HS242.561.045 | • | HS242.563.045 |
| | 5.0 | HS242.561.050 | HS242.562.050 | HS242.563.050 |
| | 6.0 | HS242.561.060 | HS242.562.060 | HS242.563.060 |
| | 7.0 | HS242.561.070 | • | • |
| Diamond ball burr, coarse | 2.3 | HS242C.561.023 | HS242C.562.023 | HS242C.563.023 |
| | 3.1 | HS242C.561.031 | HS242C.562.031 | HS242C.563.031 |
| | 4.0 | HS242C.561.040 | HS242C.562.040 | HS242C.563.040 |
| | 5.0 | HS242C.561.050 | HS242C.562.050 | HS242C.563.050 |
| | 6.0 | HS242C.561.060 | HS242C.562.060 | HS242C.563.060 |
| Diamond ball burr, extra coarse | 3.0 | • | HS242EC.562.030 | HS242EC.563.030 |
| | 4.0 | • | HS242EC.562.040 | HS242EC.563.040 |

| | | Head Ø, mm | Shank length 70 mm REF burr: | Shank length 95 mm REF burr: | Shank length 125 mm REF burr: |
|-----------------------------------|---|---------------|---------------------------------|---------------------------------|----------------------------------|
| Diamond ball burr, mega coarse |  | 3.0 | HS242EC.561.030 | • | • |
| | | 4.0 | HS242EC.561.040 | • | • |
| Diamond egg burr, |  | • | • | • | • |
| | | 4.0 | HS379.561.040 | • | • |

Diverse forms

| | | Head Ø, mm | Number of flutes | Working length, mm | Shank length 70 mm REF burr: | Shank length 95 mm REF burr: | Shank length 125 mm REF burr: |
|---|---|---------------|---------------------|--------------------------|---------------------------------|---------------------------------|----------------------------------|
| Cylinder burr with cross-train Carbide |  | 4.0 | 10 | 9.0 | HSS72E.561.040 | • | HSS72E.563.040 |
| | | 5.0 | 12 | 10.0 | HSS72E.561.050 | • | • |
| Bud burr with cross-train Carbide |  | 4.0 | 10 | 8.0 | HSS351E.561.040 | • | • |
| | | 5.0 | 12 | 9.5 | HSS351E.561.050 | • | • |
| Egg burr Carbide |  | 4.0 | 10 | 9.5 | • | HSS9.562.040 | HSS9.563.040 |
| | | 6.0 | 14 | 9.5 | • | • | HSS9.563.060 |
| Pear burr Carbide |  | 6.0 | 14 | 10.0 | • | HSS12.562.060 | HSS12.563.060 |
| | | • | • | • | • | • | • |
| Acorn burr (Spine surgery) Carbide |  | 7.5 | 8 | 9.3 | • | HSS10.562.075 | HSS10.563.075 |
| | | • | • | • | • | • | • |
| Neuro burr (Spine surgery) Carbide |  | 1.8 | 2 | 3.0 | • | • | HSS4.563.018 |
| | | 3.0 | 2 | 4.00 | • | • | HSS4.563.030 |
| Wire pass drill Carbide |  | 1.0 | • | 10.0 | • | HSS17.562.010 | HSS17.563.010 |
| | | 1.2 | • | 10.0 | • | HSS17.562.012 | HSS17.563.012 |
| | | 1.5 | • | 6.6 | • | • | HSS17.563.015 |
| Spiral drill, Carbide |  | 1.5 | • | 20.0 | • | HSS27.562.015 | • |
| | | 2.0 | • | 20.0 | HSS27.561.020 | HSS27.562.020 | • |

80 000 rpm

STERILE

Electronic motor 21

80 000 rpm

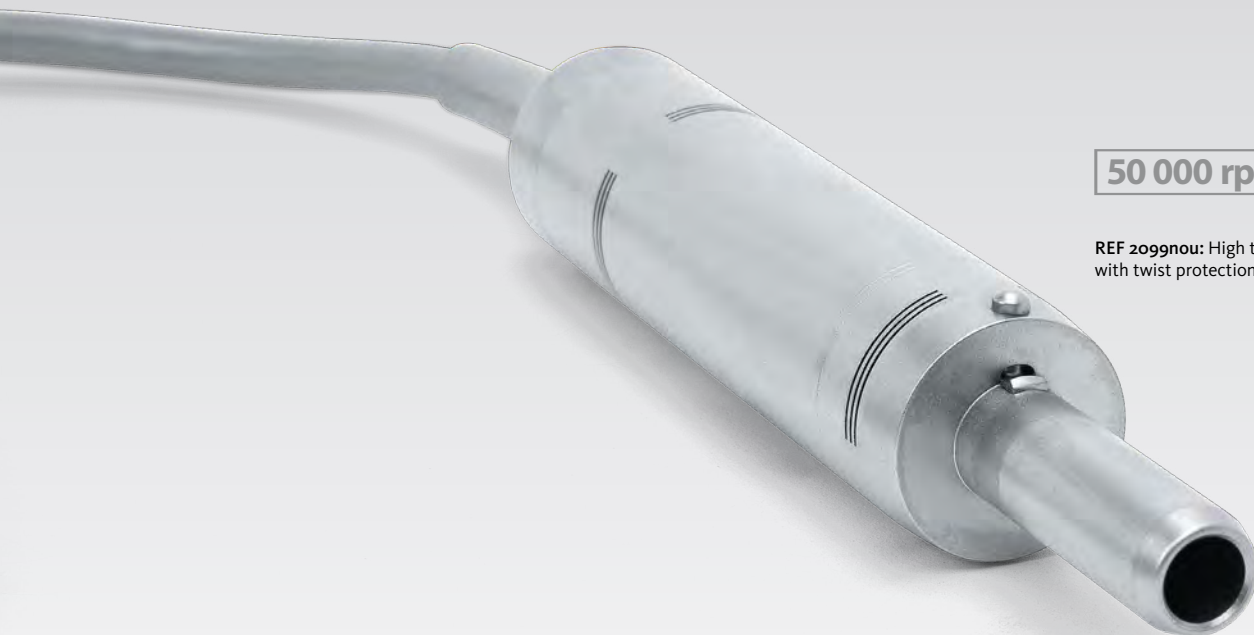
REF 2098nou: Electronic motor 21 with twist protection lock, good for up to 80 000 rpm



Durable and high powered micro motor with constant performance and comfortable use due to its directional self-ventilation. Integrated electrical torque control for speed stabilization or increment during demanding tasks.

50 000 rpm

REF 2099nou: High torque Electronic motor 21 with twist protection lock, up to 50 000 rpm



Accessories



REF 1029: Transport case with foam insert for transporting and storing the HighSurg 30 and its accessories



REF 1898: Vexio Cart, Modern trolley with two shelves and lockable anti-static rollers and integrated cable channel to the power supply with 3 power sockets. (REF 1894: Bottle holder is optional)



REF 4132: Sterilization Basket with fixation for the sterilization of Craniotomes, Cranial Perforators, high speed handpieces and Electronic Motors (without content)

REF 4134: Optional lid for Sterilization Basket

| Further accessories | REF |
|----------------------------|------|
| Tubing set for HighSurg 30 | 6024 |
| NouvaClean, cleaning spray | 2127 |
| NouvaOil, lubricant spray | 2128 |



Technical data

HIGH SURG 30 high speed: REF 3365

| | |
|------------------------|--|
| Voltage | variable: 100 V~/ 115 V~/ 230 V~, 50–60 Hz |
| Power consumption | 120 VA |
| Applied parts | Type BF |
| Max. torque | 6 Ncm |
| Dimensions (W x D x H) | 260 x 250 x 110 mm |
| Weight | 3.7 kg |
| Pedal IP code | IPX8 |

Cranial Perforator: REF 1924

| | |
|------------------------|---------------|
| Speed range | 80 – 1200 rpm |
| Max. torque | 210 Ncm |
| Coupling motor side | ISO 3964 |
| Coupling to instrument | Hudson |

Craniotome: REF 1926nou

| | |
|---------------------|-------------------|
| Speed range | 1000 – 60 000 rpm |
| Coupling motor side | ISO 3964 |

Electronic motor 21: REF 2098nou

| | |
|--------------|----------------------|
| Max. speed | 80 000 rpm |
| Max. torque | 3 Ncm |
| Coupling | ISO 3964 |
| Weight | 280 g, without cable |
| Cable length | 3 m |

Electronic motor 21: REF 2099nou

| | |
|--------------|----------------------|
| Max. Speed | 50 000 rpm |
| Max. Torque | 6 Ncm |
| Coupling | ISO 3964 |
| Weight | 280 g, without cable |
| Cable length | 3 m |

Surgical high speed handpieces: REF 1903nou - 1908nou

| | |
|---------------------|------------|
| Transmission | 1 : 1 |
| Max. speed | 80 000 rpm |
| Coupling motor side | ISO 3964 |

Leaflet may represent products that are not available in all markets.



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