



NOUVAG⁺



Versatile



Reliable and durable



Simple and intuitive

Power Tools for Neurosurgery & Spine



nouvag.com

HighSurg 30

High speed motor system
for Neurosurgery



...connects two micro motors



**Low noise
pump drive**



**New motor
management**



**Multifunctional
pedal**



**Dual motor
principle**



Large display

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 its time saving, efficient Dual Motor Principle. Connect two Micro Motors and attach the desired Handpiece for convenient work!

Cranial Perforator Handpiece

04

1200
RPM



Single use perforators

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



The cranial perforator of Nouvag AG is one of perforators with a highest torque on the international market. It delivers a peak torque of 130 Ncm. The solid appearance with its stable mechanics reflects reliability and longevity, Made in Switzerland.

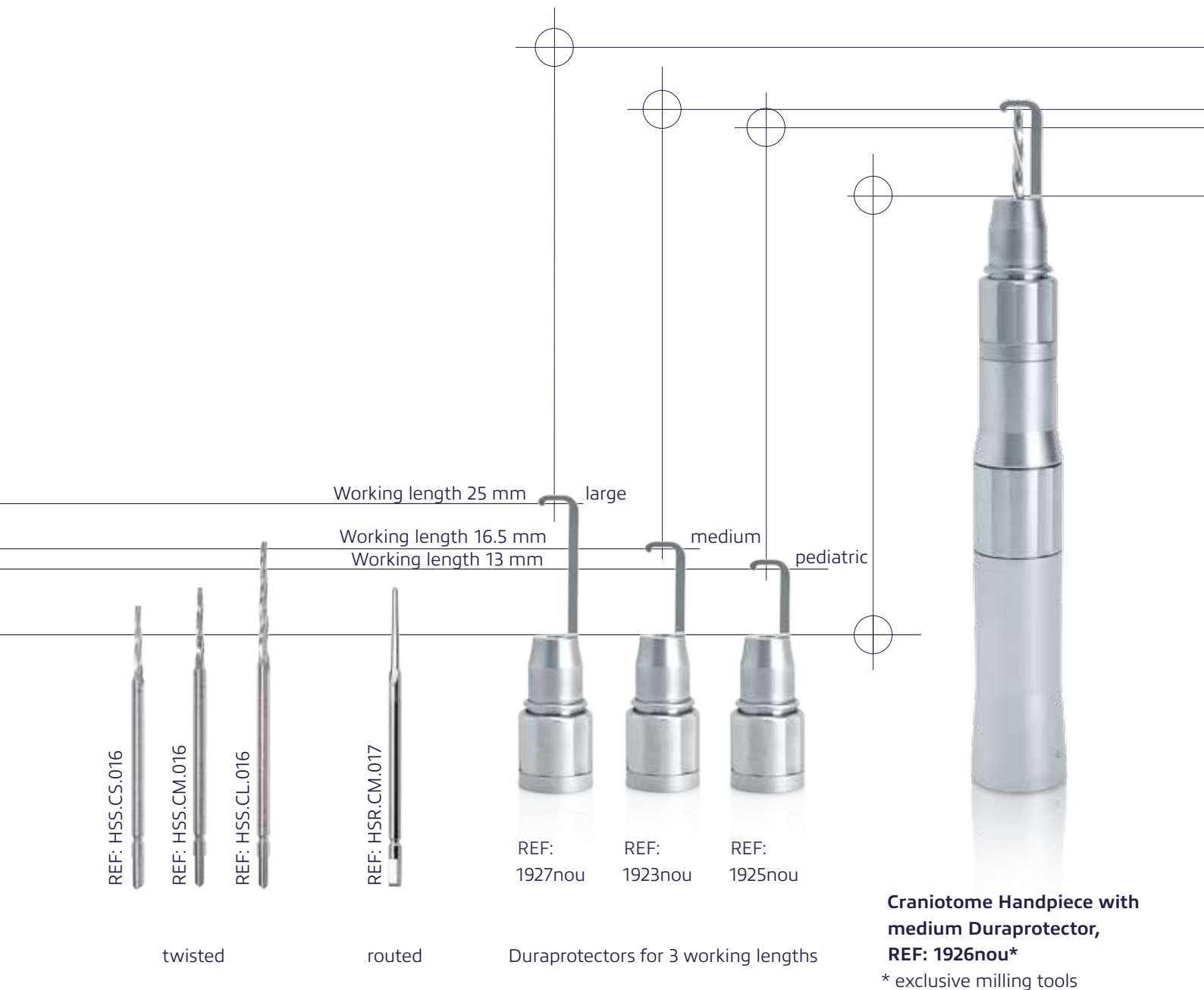
The Single User Perforator burs increase safety and eliminate the cost of cleaning and reprocessing, as well as resharping. All attachments with automatic locking system are available in 3 diameters and with 2 different drilling depths, each of a 1 mm for pediatric use and 3 mm for adults.

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.

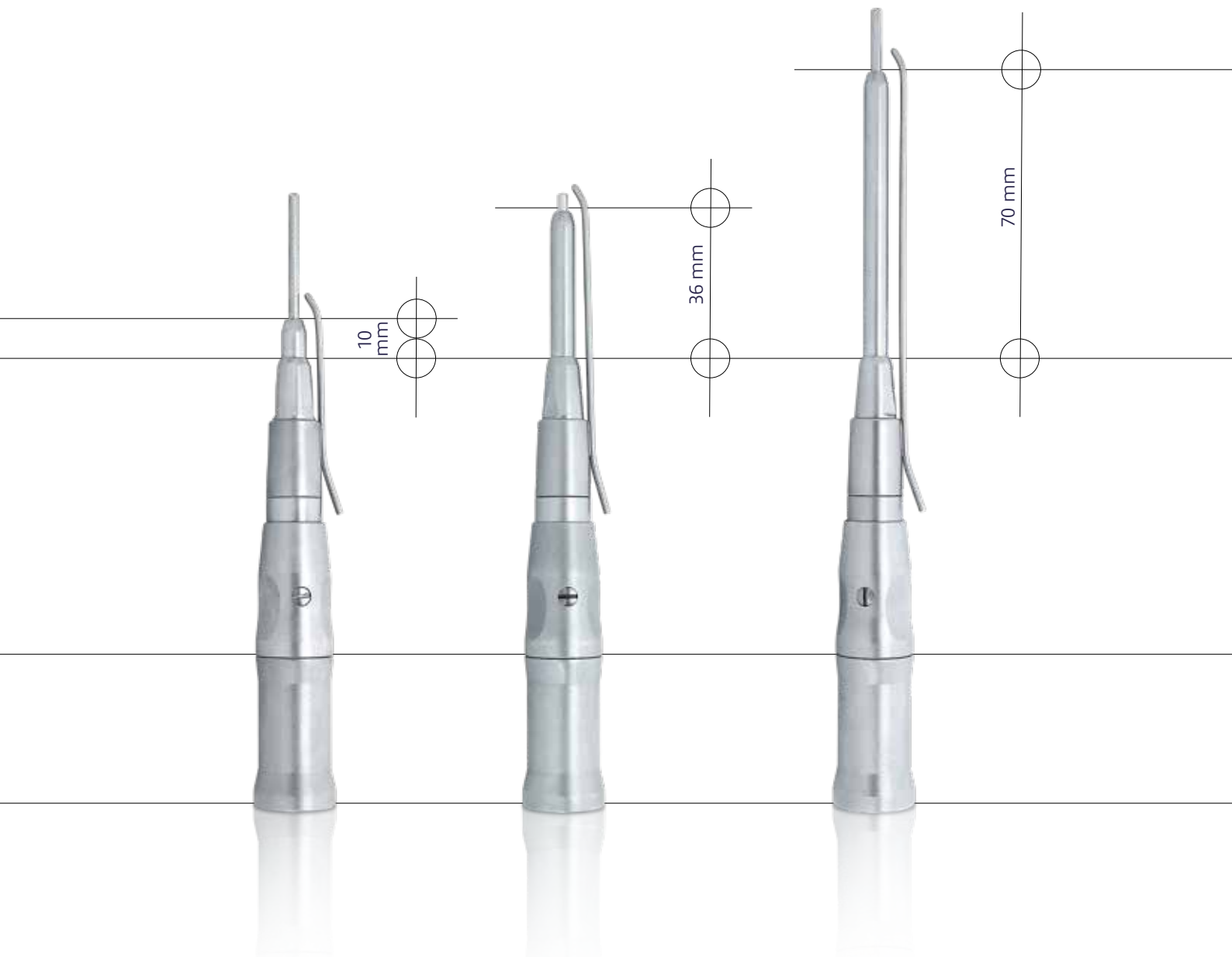
The cranial drilling and milling tools are available in 3 sizes and two versions. The Craniotome with attached Duraprotector prevents damage to the dural layer and other parts of the brain during the milling process. The high-tech Craniotome of Nouvag AG was developed with the highest safety standards and best functionality in mind.



High speed Surgical handpieces

80'000
RPM

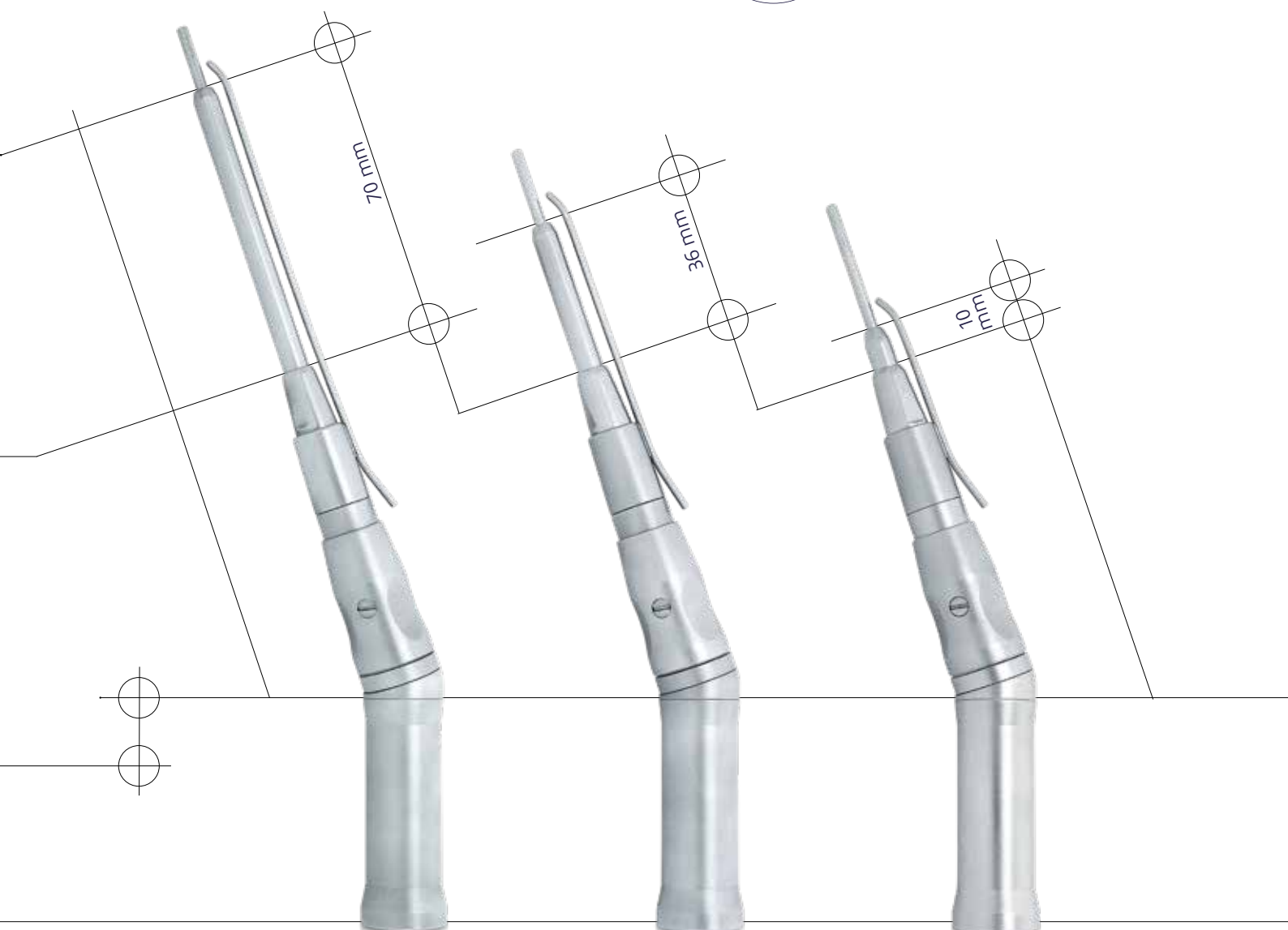
The slim high speed Handpieces are available in various lengths in straight and angled versions. The quick coupling handpieces are perfectly balanced with low vibration for a fatigue free working in various types of operations.



REF	1903nou
Weight	80 g
Length	70 mm

REF	1904nou
Weight	82 g
Length	95 mm

REF	1905nou
Weight	86 g
Length	125 mm



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



STERILE











	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	RS.070.008	.	.
	1.0	12	RS.070.010	.	.
	1.4	8	RS.070.014	RS.095.014	RS.125.014
	1.8	8	RS.070.018	RS.095.018	RS.125.018
	2.3	8	RS.070.023	RS.095.023	RS.125.023
	2.7	10	RS.070.027	.	.
	3.1	10	RS.070.031	RS.095.031	RS.125.031
	4.0	12	RS.070.040	RS.095.040	RS.125.040
	5.0	12	RS.070.050	RS.095.050	RS.125.050
	6.0	14	RS.070.060	RS.095.060	RS.125.060
Rose burr, Carbide	0.5	6	RC.070.005	RC.095.005	.
	0.8	6	RC.070.008	RC.095.008	.
	1.0	6	RC.070.010	RC.095.010	.
	1.4	6	RC.070.014	.	.
	1.8	6	RC.070.018	RC.095.018	.
	2.3	6	RC.070.023	RC.095.023	.
	2.7	8	RC.070.027	.	.
	3.1	8	RC.070.031	RC.095.031	.
	3.5	8	RC.070.035	RC.095.035	.
	4.0	10	RC.070.040	RC.095.040	RC.125.040
	5.0	12	RC.070.050	RC.095.050	RC.125.050
	6.0	14	RC.070.060	.	.
	7.0	16	RC.070.070	.	.

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	DA.070.006	DA.095.006	DA.125.006
	0.8	DA.070.008	DA.095.008	DA.125.008
	1.0	DA.070.010	DA.095.010	DA.125.010
	1.4	DA.070.014	DA.095.014	DA.125.014
	1.8	DA.070.018	DA.095.018	DA.125.018
	2.3	DA.070.023	DA.095.023	DA.125.023
	2.7	DA.070.027	DA.095.027	.
	3.1	DA.070.031	.	DA.125.031
	3.5	DA.070.035	DA.095.035	.
	4.0	DA.070.040	DA.095.040	DA.125.040
	4.5	DA.070.045	.	DA.125.045
	5.0	DA.070.050	DA.095.050	DA.125.050
	6.0	DA.070.060	DA.095.060	DA.125.060
	7.0	DA.070.070	.	.
Diamond ball burr, coarse	2.3	DC.070.023	DC.095.023	DC.125.023
	3.1	DC.070.031	DC.095.031	DC.125.031
	4.0	DC.070.040	DC.095.040	DC.125.040
	5.0	DC.070.050	DC.095.050	DC.125.050
	6.0	DC.070.060	DC.095.060	DC.125.060
Diamond ball burr, extra coarse	3.0	.	DEC.095.030	DEC.125.030
	4.0	.	DEC.095.040	DEC.125.040

		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	DMC.070.030	•	•
		4.0	DMC.070.040	•	•
Diamond egg burr,		•	•	•	•
		4.0	DAE.070.040	•	•

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	CB.070.040	•	CB.125.040
		5.0	12	10.0	CB.070.050	•	•
Bud burr with cross-train Carbide		4.0	10	8.0	BB.070.040	BB.095.040	•
		5.0	12	9.5	BB.070.050	•	•
Egg burr Carbide		4.0	10	9.5	•	EB.095.040	EB.125.040
		6.0	14	9.5	•	•	EB.125.060
Pear burr Carbide		6.0	14	10.0	•	PB.095.060	PB.125.060
		•	•	•	•	•	•
Acorn burr (Spine surgery) Carbide		7.5	8	9.3	•	AB.095.075	AB.125.075
		•	•	•	•	•	•
Neuro burr (Spine surgery) Carbide		1.8	2	3.0	•	•	NB.125.018
		3.0	2	4.0	•	•	NB.125.030
Wire pass drill Carbide		1.0	2	10.0	•	WD.095.010	WD.125.010
		1.2	2	10.0	•	WD.095.012	WD.125.012
		1.5	2	6.6	•	•	WD.125.015
Spiral drill, Carbide		1.5	2	20.0	•	SD.095.015	•
		2.0	2	20.0	SD.070.020	SD.095.020	•
		1.5	2	6.0	SD.070.015	•	•
		1.5	2	8.0	SDD.070.015	•	•
		•	•	•	•	•	•

80'000
RPM

Endoscopic spine Surgery

1:1 handpiece



REF 1910nou

Our 1 : 1 handpiece for spine surgery in combination with the HighSurg 30 surgical motor system forms the basis for driving our entire range of different rotary spinal milling cutters.

Rotary spinal milling burs and carbide cutters associated support sleeves

Illustration	REF	Description	Head-Ø	Support sleeve, inner-Ø 	Working length	Support sleeve, outer-Ø 	Parts/PU
	1918nou	Support sleeve without protector	–	3.2 mm	185 mm	4.0 mm	1
	1750nou	Spinal bur diamond, round	5.0 mm	–	225 mm	–	3
	1751nou	Spinal bur tungsten carbide round	5.0 mm	–	225 mm	–	3
	1752nou	Spinal bur fraise bud	5.0 mm	–	230 mm	–	3
	1753nou	Support sleeve, open	–	3.0 mm	232 mm	3.5 mm	1
	1762nou	Spinal bur tungsten carbide round	3.0 mm	–	270 mm	–	3
	1763nou	Spinal bur diamond round	3.0 mm	–	270 mm	–	3
	1764nou	Spinal bur diamond, round	3.7 mm	–	272 mm	–	3
	1765nou	Spinal bur tungsten carbide round	3.5 mm	–	270 mm	–	3
	1748nou	Support sleeve without protector	–	3.2 mm	232 mm	4.0 mm	1
	1749nou	Support sleeve with distal protection	–	3.2 mm	240 mm	4.0 mm	1
	1745nou	Spinal bur tungsten carbide round	3.0 mm	–	270 mm	–	3
	1746nou	Spinal bur diamond round	3.0 mm	–	270 mm	–	3
	1766nou	Spinal bur tungsten carbide round	3.5 mm	–	270 mm	–	3
	1747nou	Spinal bur diamond round	3.7 mm	–	272 mm	–	3
	1916nou	Support sleeve without protector	–	3.0 mm	316 mm	3.5 mm	1
	1755nou	Spinal bur tungsten carbide round	3.0 mm	–	354 mm	–	3
	1756nou	Spinal bur diamond round	3.0 mm	–	354 mm	–	3
	1759nou	Spinal bur tungsten carbide round	3.5 mm	–	354 mm	–	3
	1757nou	Spinal bur diamond round	3.7 mm	–	355 mm	–	3
	1914nou	Support sleeve without protector	–	3.2 mm	316 mm	4.0 mm	1
	1915nou	Support sleeve with distal protection	–	3.2 mm	323 mm	4.0 mm	1
	1737nou	Support sleeve with beveled protection	–	3.2 mm	325 mm	4.0 mm	1
	1911nou	Spinal bur tungsten carbide round	3.0 mm	–	354 mm	–	3
	1912nou	Spinal bur diamond round	3.0 mm	–	354 mm	–	3
	1738nou	Spinal bur tungsten carbide round	3.5 mm	–	359 mm	–	3
	1913nou	Spinal bur diamond round	3.7 mm	–	355 mm	–	3
	1784nou	Spinal bur tungsten carbide round	4.0 mm	–	354 mm	–	3

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 6024: Tubing set for the peristaltic pump of HighSurg 11 and HighSurg 30

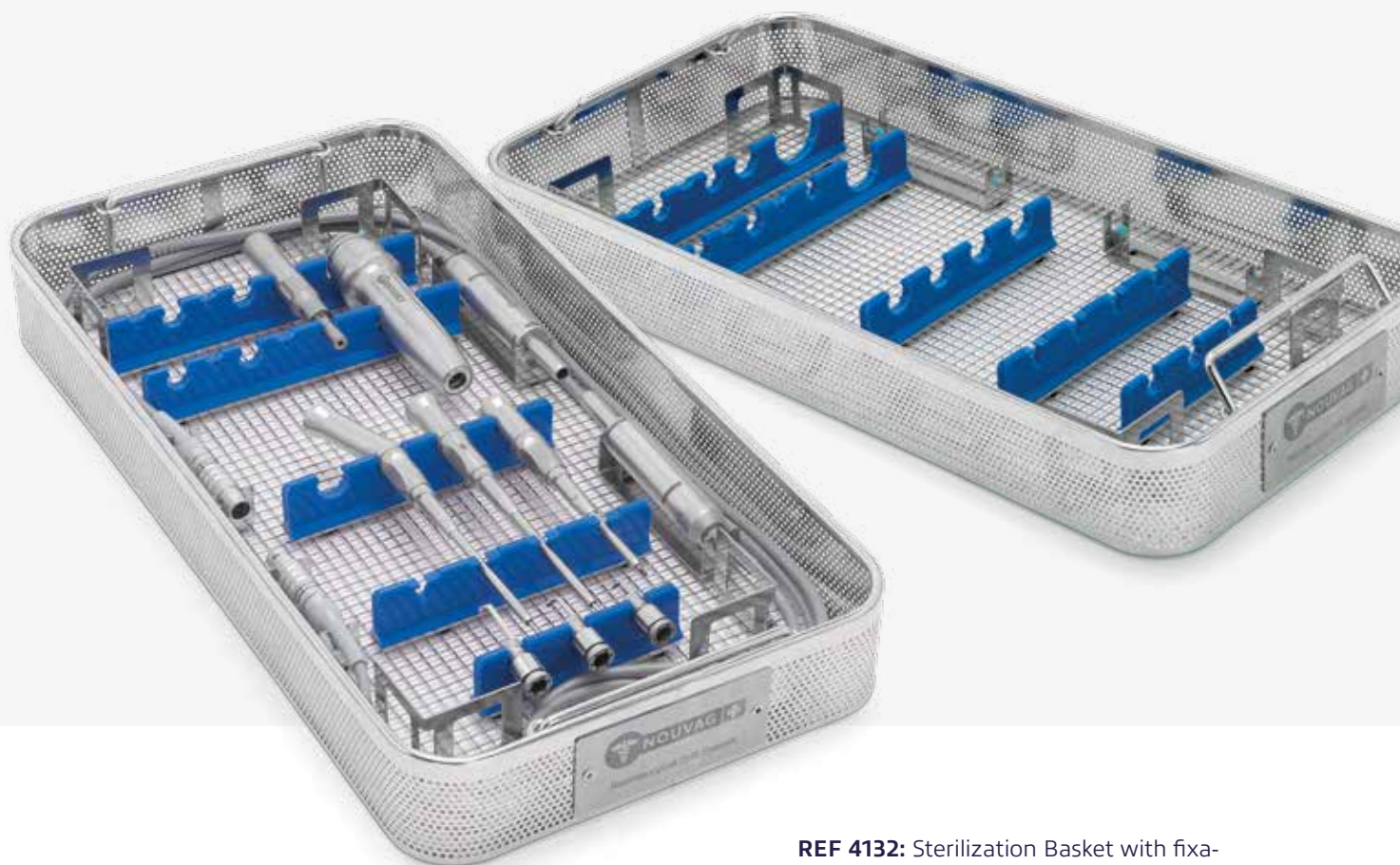
Maintenance and care



REF 2127: Spraynet for pre-cleaning in the reprocessing procedure



REF 2128: Lubrifluid maintenance and care spray, used after the reprocessing procedure



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



Powerful electronic motor 21

Robust and powerful electronic motor with high torque for driving the cranial perforator. The anti-twist device ensures that the attached handpiece cannot twist during use. When used with high torques, the built-in ventilation dissipates the heat.



6
Ncm

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



High speed electronic motor 21

015

Variant of the electronic motor 21 for speeds of up to 80,000 revolutions per minute. Our 1 : 1 handpieces can be driven very efficiently in connection with a clamped diamond or hard metal milling cutter. This motor also contains the anti-rotation device to hold the handpiece in a fixed position.



80'000
RPM

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

Technical data

HIGH SURG 30 Highspeed: 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 H x D)	260 x 250 x 110 mm
Weight	3.7 kg
Pedal IP Code	IPX8

Cranial Perforator: REF 1924nou

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

Power consumption	120 VA
Max. Speed	80 000 rpm
Max. Torque	6 Ncm
Coupling	ISO 3964
Weight	115 g, without cable
Cable length	3 m

Electronic motor 21: REF 2099nou

Power consumption	120 VA
Max. Speed	50 000 rpm
Max. Torque	6 Ncm
Coupling	ISO 3964
Weight	115 g, without cable
Cable length	3 m

High speed Surgical Handpieces: REF 1903nou - 1908nou

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

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