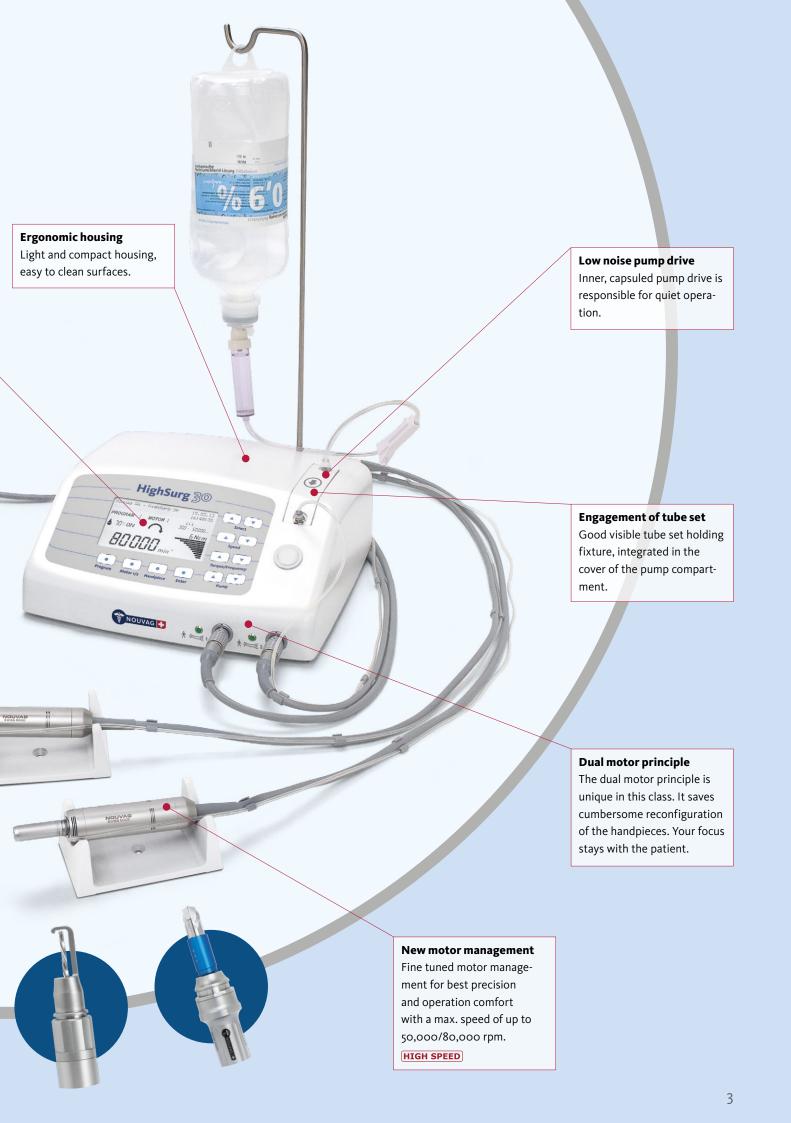




Good reasons for the HighSurg 30





80,000 rpm highspeed Surgical Motor System, developed for multiple indications

As part of the new generation of Nouvag's Surgical Motor Systems the HighSurg 30 was developed for a wide variety of applications, such as Neurosurgery, ENT surgery, Maxillofacial surgery as well as Orthopedics and Arthroscopy. The conciliatory treatment of patients by minimally invasive surgical technics in conjunction with endoscopy was the central part in the development of the new HighSurg 30.

A sophisticated, micro processor controlled motor management is responsible for a silky-smooth, low vibration running of any handpiece with speeds of up to 80,000 rpm. Precise and save cuts, as we know them only from high priced Motor Systems are now possible with this further developed Shaver System with a continuous mode as well as an oscillating mode.

The cooling of the instruments is maintained by the built-in, fine tunable peristaltic pump. A broad range of newly developed Shaver Blades are available for all situations one might think of and form a well matched unified whole with the new HighSurg 30. The user friendly concept of being able to operate in sync with the big display, which provides a view of

the speed (rpm) and the torque graph, enables working with great safety and confidence in every situation required. To keep your focus on the job we equipped the HighSurg 30 with two motor connections, which spares the rechucking of handpieces.

With the included pedal you control the pump, the programmes and the motor. With the tread-plate the revolutions per minute of the motor and the activation of the pump are directed.

The HighSurg 30 is highly suitable for all areas of Micro Surgery and convinces with an ideal combination of carefully aligned technologies and materials.







Electronic Motor 21

Brushless motor with up to 50,000/80,000 rpm, sterilizable and autoclavable, with a 3 meter power cord.



Electronic Motor 21

Example configuration, ENT surgery Unit

Motor System "HighSurg 30"

The HighSurg 30 is a powerful and user-friendly highspeed surgical Motor System.

Suction Pump "Vacuson 40"

Reliability and efficiency makes this pump a multifunctional usable device. This set configuration is applicable for surgery and for medical applications in general.

Mobile stand "Sanicar"

- Antistatic rolls
- 2 of the rolls are lockable
- 3 Power sockets

Technical data, HighSurg 30

HighSurg 30
100/115/230 Volt
at 50 – 60 Hz
Electronic Motor
up to 80,000 rpm
up to 6 Ncm
300 - 6000 rpm
300 – 5000 rpm
o.2 – 3.0 sec
o – 100 ml/min
260 x 250 x 110 mm
3.7 kg
3 m



Technical data, "Vacuson 40"

, ,,			
Type:	Vacuson 40		
Input Voltage (switchable):	115/230 Volt at 50-60 Hz		
Power consumption:	185 Watt		
Suction performance:	40 l/min		
Max. vacuum:	-0.9 bar/686 mmHG		
Dimensions (W x D x H)	: 360 x 290 x 280 mm		
Weight control unit:	8.5 kg		

Technical data, "Sanicar"

Туре:	Sanicar
Input Voltage (switchable):	230 Volt at 50 Hz
Dimensions (W x D x H):	385 x 400 x 1350 mm
Weight:	18.5 kg

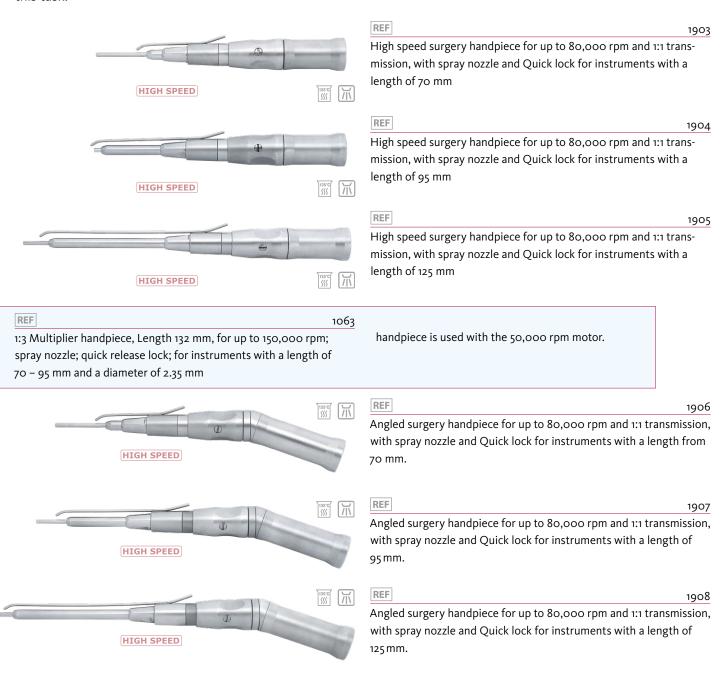
Surgical standard handpieces



Surgical high speed handpieces



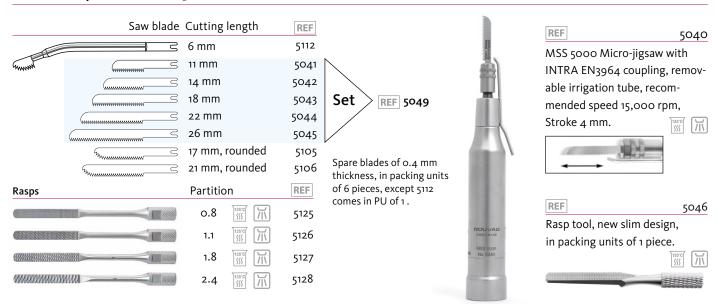
Our newly developed surgical high speed handpieces run at a max. speed of 80,000 rpm, and thus complete our portfolio of handpieces particularly designed for the Nouvag motor system HighSurg 30. This series of angled and straight handpieces fit perfectly to the electronic high speed motor 21 that was especially modified and adjusted for this task.



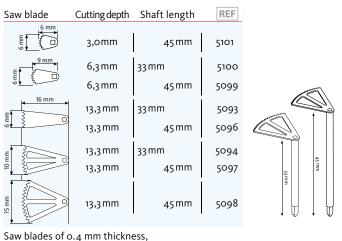
For tools please refer to page 18 – 21.

Surgical Micro Saws

Micro Compass Saw MSS 5000



Micro Oscillating Saw OMS 5000



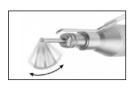
Saw blades of 0.4 mm thickness, in packing units of 1 piece.



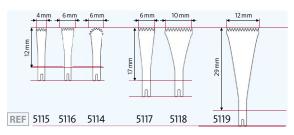
REF

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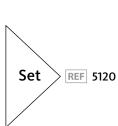
OMS 5000 Oscillating micro saw with INTRA EN3964 coupling, removable irrigation tube, recommended speed 15,000 rpm.



Osseoscalpel, Sagittal Saw MOS 5000



Saw blades of o.4 mm thickness, in packing units of 6 pieces.



REF 5110 MOS 5000 Sagittal Saw

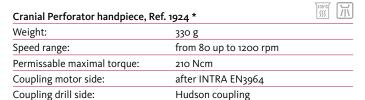
with INTRA EN3964 coupling, removable irrigation tube, recommended speed 15,000 rpm.



Cranial instruments

Cranial Perforator

The Cranial Perforator is utilized to set a right angle in accordance to the cranial arc tangent to make sure to assure instant advantage when the automatic locking system sets in place while drilling.



^{*} Perforator drill not included in delivery

(Cranial Perforator drills					EKILE (
	REF	Ø inner/outer	Intended use	Adult	Pediatric	Color
	1978	6 mm/9 mm	for skull bone down to 1 mm		•	gray
	1920	6 mm/ 9 mm	for skull bone down to 3 mm	•		gray
	1977	7 mm/11 mm	for skull bone down to 1 mm		•	purple
	1976	7 mm/11 mm	for skull bone down to 3 mm	•		purple
	1979	9 mm/13 mm	for skull bone down to 1 mm		•	blue
	1921	9 mm/13 mm	for skull bone down to 3 mm	•		blue
	1980	11 mm/14 mm	for skull bone down to 1 mm		•	orange
	1922	11 mm/14 mm	for skull bone down to 3 mm			orange



Craniotome

The Craniotome is used for opening the cranium. Using the so-called Duraprotector the clamped bone cutter can work on the cranium without damaging the underlying tissue. The Craniotome is used after the cranium has been prepared through at least 3 holes by means of a Cranial Perforator. This involves using the Craniotome to drill the connecting milling lines between the 3 drill holes in order to remove the cranium.

Craniotome including Duraprotector medium, Ref. 1926*			$\boxed{/\!\!\!/}$
Weight:	130 g		
Speed range:	from 1000 up to 65,000 rpm		
Permissible maximum torque:	6 Ncm		
Coupling:	after INTRA EN3964		

^{*} Without drill



available in 3 sizes:

STERILE

Craniotome highspeed drills

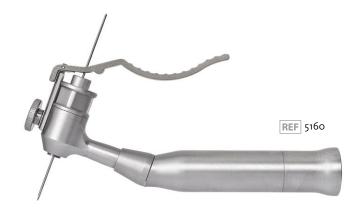
	Number of	Working	REF for		
Head Ø	flutes	length	Craniotome 1926	Form/Design	Picture
1.6 mm	3	13.0 mm	HSS21C.512.016	twisted	
1.6 mm	3	16.5 mm	HSS21C.513.016	twisted	
1.6 mm	3	25.0 mm	HSS21C.514.016	twisted	
1.6 mm	2	13.0 mm	HSS21C.512.017	routed	
1.6 mm	2	16.5 mm	HSS21C.513.017	routed	
1.4 mm	2	25.0 mm	HSS21C.514.017	routed	



Orthopedic handpieces

Kirschner handpiece

The Kirschner Wires are used for temporary and permanent fixation of bones and implants. The simplicity of changing wires addresses the surgeons needs. With the motor system that best suites your needs the process of setting the wires with the Kirschner handpiece gets done easier with an accurate result that gives you confidence and safety.



Surgical Wires		
Length	Ømm	REF
70 mm	0.8	5013
70 mm	1.0	5014
150 mm	0.6	5023
150 mm	0.8	5015
150 mm	1.0	5016
150 mm	1.2	5017
150 mm	1.5	5018

Kirschner Contra angle with INTRA EN3964 coupling, 90 mm length, 16:1 transmission, 2500 rpm, for surgical wires of 0.8 – 1.5 mm in diameter.

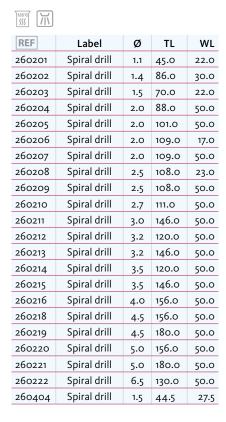


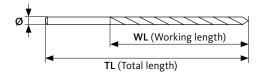
Surgical Wires are available in a box of 10.

Jacobs Drill handpiece with three-jaw chuck system

The Jacobs Drill handpiece is a reduction transmission instrument with a quick release 3-jaw chuck system to be used in an orthopedic environment. No additional drill chuck key needed. The instrument

is applied at a low speed range for a short or medium period of application in connection with an appropriate motor system.







Jacobs Drill handpiece, R	ef. 1955	135°C
Drill Ø:	o.3 – 7.4 mm	
Weight:	530 g	
Speed range:	80 to 2100 rpm	
Torque:	6o Ncm	
Coupling:	after INTRA EN3964	



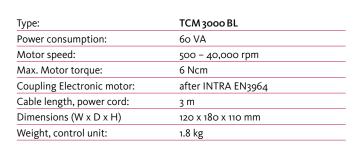
TCM 3000 BL for versatile use

Instruments which do not depend on a torque controlled motor system, can be driven by this very versatile, compact device. The very simple system of the TCM 3000 BL makes this machine a quiet, desirable companion during practises in operating rooms. Its versatility ensures that this device doesn't stand still for a day. The legendary Nouvag quality, made in Switzerland is a guarantor for peak performance and endurance, even after many years.

Not just grinding, drilling and sawing is possible with this device, but Skin grafting with a dermatome and the use of a tattooing handpiece for reconstructive surgery.

The high reliability and its balanced price/performance ratio made the TCM 3000 BL a favored choice when versatility and allround talent is required without having to fulfill the high demands of a high-end Motor System.





Skin grafting

Dermatome



The Dermatomes with INTRA EN3964 coupling have a cutting depth of $o-1.00\,\text{mm}$. The recommended speed is 14,000 rpm.



For entry level the TCM 3000 BL can be used as a Motor System to drive the Dermatomes.
Our HighSurg 30 is more versatile and allows to work with other instruments as well.



Detail of the further developed adjusting mechanism for high precision and safety.





REF 1919

Spare blades

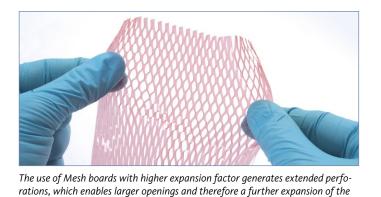
The spare blades are available in packing units with 10 pieces.

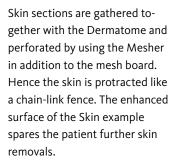
with 75 mm width. Reduction of cutting width 50/25 mm.

Reduction Support Base for Dermatome with 100 mm width. Reduction of cutting width 75/50 mm.

Skin expansion

Skin Expansion -System (Mesher)





The intermediate spaces of the grafted and meshed skin builds up at the healing process of the skin.





Exchangeable blade roll



Open hinged bridge during the meshing process to free skin samples that were picked up by the blade roll.

4126 Non slip, nobby silicone mat (450 x 270 mm) 4128 Stericase for Mesher sterilization (465 x 280 x 150 mm)



Key facts:

skin graft.

- Easy to clean due to hinged bridge for opening
- Access to blade roll
- High grade medical stainless steel
- Light weight, only 4.5 kg
- Adjustable backing roll
- Wide range of Mesh-boards available

Mesh-Be	oards STE	RILE (S)
REF	Expansion factor	unit/PU
1981	1.5:1	20
1002	2011	20



HighSurg 11, Shaver Motor System for ENT surgery

If your task requires to use the shaver function, as often occurring in the field of ENT surgery, than the HighSurg 11 is the right choice. The reduced function range, compared to the HighSurg 30, simplifies the handling without forfeiting the new developed, sophisticated features of the control system.

Focusing on the field of ENT surgery not only reduces the cost for the new HighSurg 11 compared to its bigger brother the HighSurg 30, but also allows to optimize the handle of the control unit in the field of ENT surgery. That's how a modern, clearly structured Shaver system was created, perfectly suitable for its spectrum of tasks. Together with the newly developed ENT handpieces and the new generation of NOUVAG Shaver blades a well-matched unit is the result. Feel the difference in any range of speed due to its quiet, smooth run and the absence of vibrations.

The shaver blades listed on the following pages are available in multiple diameters and as concave and convex versions. The integrated cooling system of the shaver blades sufficiently supply the cutting area and at the same time reduces friction heat between outer sleeve and cutting tube.

The clamping ring mechanism of the coupling system of the handpieces enable the Shaver blades to engage in steps of 60°, which allow the employment of the unit of motor, handpiece and Shaver Blade for all thinkable working situations. By using concave and convex Shaver Blades and setting them up in different angels the issue of dead spots is widely solved. Besides the

Shaver function the HighSurg 11 features also a program for 1:1 handpieces, good for accompanying work stages, so no further device is needed.









Electronic Motor 21



Brushless motor for up to 50,000 rpm, sterilizable and autoclavable with a cable length of 3 meters.

Type:	HighSurg 11
Power consumption:	120 VA
Motor speed:	300 – 50,000 rpm
Shaver frequency:	o.2 – 3.0 sec
Max. Motor torque:	6 Ncm
Coupling Motor:	after INTRA EN3964
Length of cable:	3 m
Dimensions (W x D x H)	260 x 250 x 110 mm
Weight, control unit:	3.3 kg

OtoDrill for the treatment of the ossicular chain

The OtoDrill motor handpiece is designed particularly for ENT surgery and is applied in Stapedotomy for Otoscleroses patients.

It allows fine milling works in a localized manner. The OtoDrill is the predestined instrument for the work at the most delicate bones in the human body and thus, ideally applicable for reconstruction of the ossicular chain with implants.

The OtoDrill is preferably controlled by a suitable motor system such as Nouvag's surgical motor systems HighSurg 11 and HighSurg 30. These provide exactly adjusted characteristic maps of the motor and a display with all the control parameters at a glance and in real-time. This is an important contribution to safety and gives confidence with any procedure.

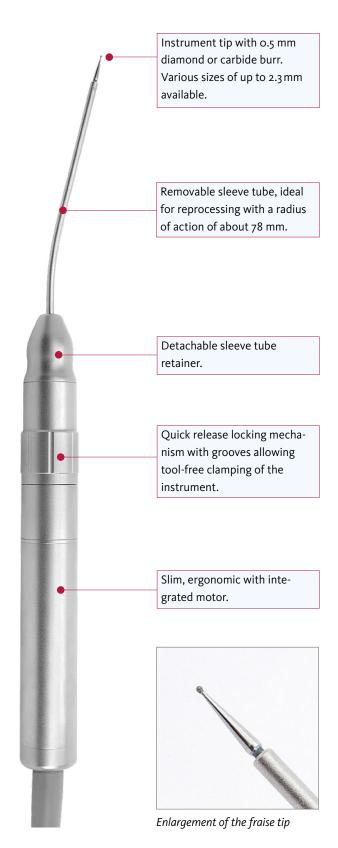
Key facts:

- · Compact and ergonomic Otology drill.
- A diameter of just 16 mm.
- Dismountable sleeve tube, ideal for reprocessing.
- Quick release locking mechanism.
- Instrument is inserted through the sleeve tube.
- Radius of action of 78 mm.

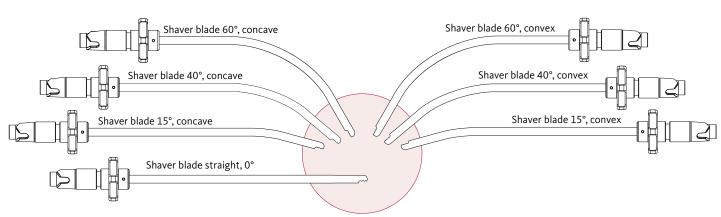
Collection of burrs for the Oto-Drill

Kind	Ø in mm	Color code	REF
Carbide	0.50	purple	1649
Carbide	0.60	blue	1650
Carbide	0.70	green	1651
Carbide	0.80	yellow	1652
Carbide	1.00	orange	1653
Carbide	1.40	grey	1654
Carbide	1.80	brown	1655
Carbide	2.30	red	1656
Diamond	0.60	blue & white	1641
Diamond	0.70	green & white	1642
Diamond	0.80	yellow & white	1643
Diamond	1.00	orange & white	1644
Diamond	1.20	black & white	1645
Diamond	1.40	gray & white	1646
Diamond	1.80	brown & white	1647
Diamond	2.30	red & white	1648

Type:	OtoDrill (Ref. 1909)
Torque:	up to 2 Ncm
Speed range:	o – 16,000 rpm
Cable length, motor:	3 m
Total length without cable:	200 mm
Diameter:	16 mm
Weight without cable:	115 g
Total length without cable: Diameter:	200 mm 16 mm



Shaver/Micro Debrider





Arthroscopy

Tri Spike Cutter (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ømm	Position	Angle	length, mm	REF
4.5		straight	130	5332



Arthroscopy

Acromionizer (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mm	Position	Angle	length, mm	REF
5.5		straight	130	5279



Arthroscopy

Full Radius Resector (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mm Position Angle length, mm REF		Disposable	Disposable sharer blades, 5 pieces per packing anne				
4.5 straight 130 5289	Ø mm	Position	Angle	length, mm	REF		
	4.5		straight	130	5289		



Arthroscopy

Aggressive Full Radius (disposable)

Disposable Shaver blades, 5 pieces per packing unit

				_
Ø mm	Position	Angle	length, mm	REF
4.5		straight	130	5334



Arthroscopy

Hooded round Burr (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mr	n	Position	Angle	length, mm	REF
	5.5		straight	130	5293



Arthroscopy

Pinguin (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mm	Position	Angle	length, mm	REF
4.5		straight	130	5329



ENT-Surgery

Full Radius Resector (disposable)

Disposable Shaver blades, 5 pieces per packing unit

			, , , , ,	
Ø mm	Position	Angle	length, mm	REF
O 2.5		straight	105	5318
3.5		straight	105	5294
3.5	con cave	15°	105	5300
3.5	con vex	15°	105	5303
3.5	con cave	40°	105	5306
3.5	con vex	40°	105	5309
3.5	con cave	6o°	105	5312
3.5	con vex	60°	105	5315
4.0		straight	105	5340
4.0	con cave	15°	105	5350
4.0	con vex	15°	105	5359
4.0	con cave	40°	105	5352
4.0	con vex	40°	105	5361
4.0	con cave	6o°	105	5354
4.0	con vex	60°	105	5363
4.5		straight	105	5324



ENT-Surgery

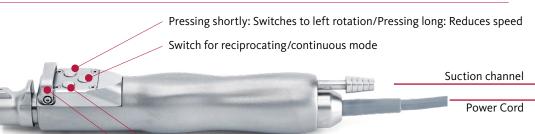
Aggressive Full Radius (disposable)

Disposable Shaver blades, 5 pieces per packing unit

		Disposable	Snaver blades	s, 5 pieces per p	backing unit
Ø r	mm	Position	Angle	length, mm	REF
0	2.5		straight	105	5322
	3.5		straight	105	5295
	3.5	con cave	15°	105	5301
	3.5	con vex	15°	105	5304
	3.5	con cave	40°	105	5307
	3.5	con vex	40°	105	5310
	3.5	con cave	60°	105	5313
	3.5	con vex	60°	105	5316
	4.0		straight	105	5344
	4.0	con cave	15°	105	5349
	4.0	con vex	15°	105	5358
	4.0	con cave	40°	105	5351
	4.0	con vex	40°	105	5360
	4.0	con cave	6o°	105	5353
	4.0	con vex	60°	105	5362
	4.5		straight	105	5330

Arthroscopy Shaver handpiece, straight, Ref. 2093





Pressing shortly: Switches to right rotation/Pressing long: Increases speed Suction channel ventilation

ENT Shaver handpiece, Ref. 2092









ENT-Surgery

Trimmer (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mm	Position	Angle	length, mm	REF
0 2.5		straight	105	5290
		straight		
3.5		_	105	5291
4.0		straight	105	5292



Rhinology

Rhino Rose Burr (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ømm	Position	Angle	length, mm	REF
3.5		straight	130	5272
3.5	con cave	15°	130	5273
3.5	con cave	60°	130	5274



ENT-Surgery

Tri Spike Cutter (disposable)

		Disposable Shaver blades, 5 pieces per packing unit				
Ør	nm	Position	Angle	length, mm	REF	
0	2.5		straight	105	5320	
	3.5		straight	105	5296	
	3.5	con cave	15°	105	5302	
	3.5	con vex	15°	105	5305	
	3.5	con cave	40°	105	5308	
	3.5	con vex	40°	105	5311	
	3.5	con cave	60°	105	5314	
	3.5	con vex	60°	105	5317	
	4.0		straight	105	5342	
	4.0	con cave	15°	105	5346	
	4.0	con vex	15°	105	5355	
	4.0	con cave	40°	105	5347	
	4.0	con vex	40°	105	5356	
	4.0	con cave	60°	105	5348	
	4.0	convex	60°	105	5357	
	4.5		straight	105	5328	



Rhinology

Rhino Diamond Burr (disposable)

Disposable Shaver blades, 5 pieces per packing unit

Ø mm Position Angle length, mm REF 3.5 concave 15° 130 5271



Rhinology

Rhino Cylindrical Burr (disposable)

Disposable Shaver blades, 5 pieces per packing unit





High speed rose burrs



REF Rose burr, highspeed, steel



Head Ø	Number of flutes	Shank length 70 mm, for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
o.8 mm	6	HSS236.561.008		
1.0 mm	12	HSS236.561.010		
1.4 mm	8	HSS236.561.014	HSS236.562.014	HSS236.563.014
1.8 mm	8	HSS236.561.018	HSS236.562.018	HSS236.563.018
2.3 mm	8	HSS236.561.023	HSS236.562.023	HSS236.563.023
2.7 mm	10	HSS236.561.027		
3.1 mm	10	HSS236.561.031	HSS236.562.031	HSS236.563.031
4.0 mm	12	HSS236.561.040	HSS236.562.040	HSS236.563.040
5.0 mm	12	HSS236.561.050	HSS236.562.050	HSS236.563.050
6.o mm	14	HSS236.561.060	HSS236.562.060	HSS236.563.060

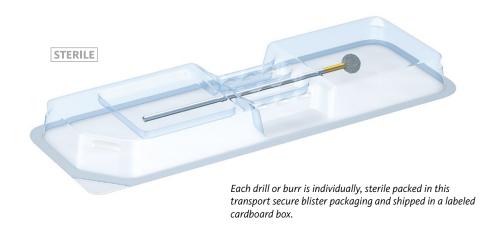


REF Rose burr, highspeed, carbide

STERILE

REF Rose Dur	SIEKILE			
Head Ø	Number of flutes	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
o.5 mm	6	HSM236.561.005		
o.8 mm	6	HSM236.561.008		
1.0 mm	6	HSM236.561.010		
1.4 mm	6	HSM236.561.014		
1.8 mm	6	HSM236.561.018		
2.3 mm	6	HSM236.561.023		
2.7 mm	8	HSM236.561.027		
3.1 mm	8	HSM236.561.031		
3.5 mm	8	HSM236.561.035		
4.0 mm	10	HSM236.561.040	HSM236.562.040	HSM236.563.040
5.0 mm	12	HSM236.561.050	HSM236.562.050	HSM236.563.050
6.o mm	14	HSM236.561.060		
7.0 mm	16	HSM236.561.070		





High speed diamond burrs



REF Diamond	ball burr, highspeed		STERILE
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
o.6 mm	HS242.561.006		
o.8 mm	HS242.561.008		
1.0 mm	HS242.561.010	HS242.562.010	
1.4 mm	HS242.561.014	HS242.562.014	
1.8 mm	HS242.561.018		
2.3 mm	HS242.561.023	HS242.562.023	HS242.563.023
2.7 mm	HS242.561.027		
3.1 mm	HS242.561.031		HS242.563.031
3.5 mm	HS242.561.035	HS242.562.035	
4.0 mm	HS242.561.040	HS242.562.040	HS242.563.040
4.5 mm	HS242.561.045	_	HS242.563.045
5.0 mm	HS242.561.050	HS242.562.050	HS242.563.050
6.o mm	HS242.561.060	HS242.562.060	HS242.563.060
7.0 mm	HS242.561.070		



Diamond ball burr, coarse, highspeed STERI						
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908			
2.3 mm	HS242C.561.023	HS242C.562.023	HS242C.563.023			
3.1 mm	HS242C.561.031	HS242C.562.031	HS242C.563.031			
4.0 mm	HS242C.561.040	HS242C.562.040	HS242C.563.040			
5.0 mm	HS242C.561.050	HS242C.562.050	HS242C.563.050			
6.0 mm	HS242C.561.060	HS242C.562.060	HS242C.563.060			



REF Diamond	ball burr, extra coarse, highspeed				
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908		
3.0 mm		HS242EC.562.030	HS242EC.563.030		
4.0 mm		HS242EC.562.040	HS242EC.563.040		



REF Diamond ball burr, mega coarse, highspeed					
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908		
4.0 mm	HS242EC.561.030				
5.0 mm	HS242EC.561.040				



REF Diamond	d cylinder burr, highspeed					
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908			
o.6 mm	HS828.561.006					



REF Diamond	long cylinder burr, highs	peed	STERILE	
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906			
2.0 mm	HS881.561.020			



Diamond egg burr, highspeed STERI						
Head Ø	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908			
4.0 mm	HS379.561.040					

Diverse forms of burrs



REF Cylinder burr with cross-train, highspeed, carbide

STERILE

Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
4.0 mm	10	9.0 mm	HSS72E.561.040		HSS72E.563.040
5.0 mm	12	10.0 mm	HSS72E.561.050		



REF Bud burr with cross-train, highspeed, carbide

STERILE

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Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
4.0 mm	10	8.0 mm	HSS351E.561.040		
5.0 mm	12	9.5 mm	HSS351E.561.050		



REF Egg burr, highspeed, carbide

STERILE

-98 and 1, 8 becaute and an analysis					
Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
4.0 mm	10	9.5 mm		HSS9.562.040	HSS9.563.040
6.o mm	14	9.5 mm			HSS9.563.060



REF Pear burr, highspeed, carbide

STERILE

	Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
	6.o mm	14	10.0 mm		HSS12.562.060	HSS12.563.060



REF Acorn burr, highspeed, carbide

STERILE

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Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
7.5 mm	8	9.3 mm		HSS10.562.075	HSS10.563.075



REF Neuro burr, highspeed, carbide

STERILE

Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
1.8 mm	2	3.0 mm			HSS4.563.018
3.0 mm	2	4.0 mm			HSS4.563.030



REF Lindemann cutter, highspeed, carbide

STERILE

		, ,			
Head Ø	Number of flutes	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
2.3 mm	4	35.0 mm	HSS162.561.023		



REF Wire Pass Drill, highspeed, carbide

STERILE

wife Fass Diffi, filgiispeed, carbide					
Head Ø	Working length	Shank length 70 mm , for handpieces Ref. 1903/1906	Shank length 95 mm, for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908	
1.0 mm	10.0 mm		HSS17.562.010	HSS17.563.010	
1.2 mm	10.0 mm		HSS17.562.012	HSS17.563.012	
1.5 mm	6.6 mm			HSS17.563.015	





STERILE

Head Ø	Working length	Shank length 70 mm, for handpieces Ref. 1903/1906	Shank length 95 mm , for handpieces Ref. 1904/1907	Shank length 125 mm, for handpieces Ref. 1905/1908
1.5 mm	20.0 mm		HSS27.562.015	
2.0 mm	20.0 mm	HSS27.561.020	HSS27.562.020	



Drilling, filing, milling and grinding with standard speed

NON STERILE

REF Diamond ball head grinder Shank length Shank length Shank length Head- Ø 70 mm 95 mm 125 mm o.6 mm 2850 o.8 mm 2852 1.0 mm 2853 2874 2854 1.4 mm 2923 2855 1.8 mm 2875 2924 2856 2.3 mm 2876 2925 2.7 mm 2857 2877 2926 2858 2878 3.1 mm 2928 2859 2879 3.5 mm 2929 2860 2880 4.0 mm 2930 2861 2881 4.5 mm 2931 5.0 mm 2862 2882 2932 6.0 mm 2863 2883 2933 2864 2884 7.0 mm 2934

REF Diamond burr Shank length Shank length Head- Ø 70 mm 125 mm 0.7 mm 2851 1.6 mm 2828 2.1 mm 2829 2.5 mm 2868 3.1 mm 2927

REF Stainless steel, round				
Head- Ø	Shank length 57 mm	Shank length 70 mm		
o.6 mm		2750		
0.7 mm		2751		
o.8 mm		2752		
2.3 mm	2765			
2.7 mm	2766			
3.1 mm	2768			
4.0 mm	2769			
5.0 mm	2770			

REF Rose burr, stainless steel				
Head- Ø	Shank length 44.5 mm	Shank length 70 mm	Shank length 95 mm	Shank length 125 mm
o.5 mm		2724		
o.8 mm		2752		
1.0 mm	2716	2753		
1.4 mm	2717		2745	2946
1.8 mm		2755	2747	2947
2.3 mm		2756	2749	2948
2.7 mm	2767	2730	2783	2949
3.1 mm		2758	2778	2738
3.5 mm		2759	2779	2739
4.0 mm	2718	2760	2780	2740
4.5 mm		2761	2942	2950
5.0 mm	2719	2762	2943	2951
6.0 mm	2722	2763	2944	2952
7.0 mm	2723	2764	2945	2953

REF Rose burr, tungsten carbide 🔲 🥮				
Head- Ø	Shank length 70 mm	Shank length 95 mm		
o.5 mm		2823		
o.8 mm	2831	2824		
1.0 mm	2832	2808		
1.4 mm	2833			
1.8 mm	2834	2809		
2.3 mm	2835	2906		
2.7 mm	2836			
3.1 mm	2837	2907		
3.5 mm	2838	2908		
4.0 mm	2839	2909		
4.5 mm	2840	2938		
5.0 mm	2841	2939		
6.0 mm	2842	2940		
7.0 mm	2843	2941		



Bud burr with cross-train				
Head- Ø	Shank length 70 mm			
5.0 mm	2726			
6.0 mm	2728			
8.0 mm	2729			

Cylinder with cross-train			
Head- Ø	Shank length 70 mm		
4.0 mm	2741		
5.0 mm	2742		
6.0 mm	2743		
7.0 mm	2744		

REF Rose burr/hardened steel						
Head- Ø	Shank length 70 mm	Shank length 125 mm				
o.5 mm	2830					
2.5 mm	2844					
3.1 mm		2935				
5.0 mm		2936				
7.0 mm		2937				





REF Lindemann fraise, Ø 2.3 mm, 10 mm working length					
Total length	REF				
62 mm	2771				
65 mm	2772				
45 mm	2773				

Endoscopic spine surgery



Support sleeve with bevelled protector



Support sleeve with distal protector



Support sleeve, open

Angled handpiece



Angled handpiece for endoscopic spine surgery with 1:1 transmission and quick lock system.

REF	Description:	Head-Ø	Working length	Support sleeve-Ø	Pieces/PU
1918	Support sleeve open		185 mm	4.0 mm	1
1750	Diamond milling cutter, round	5.0 mm	185 mm	4.0 mm	3
1751	Carbide milling cutter, round	5.0 mm	185 mm	4.0 mm	3
1752	Carbide milling cutter, conical	5.0 mm	185 mm	4.0 mm	3
1753	Support sleeve open		200 mm	3.5 mm	1
1762	Carbide milling cutter, round	3.0 mm	200 mm	3.5 mm	3
1763	Diamond milling cutter, round	3.0 mm	200 mm	3.5 mm	3
1764	Diamond milling cutter, round	3.7 mm	200 mm	3.5 mm	3
1765	Carbide milling cutter, round	3.5 mm	200 mm	3.5 mm	3
1748	Support sleeve, open		200 mm	4.0 mm	1
1749	Support sleeve with distal protection		200 mm	4.0 mm	1
1745	Carbide milling cutter, round	3.0 mm	200 mm	4.0 mm	3
1746	Diamond milling cutter, round	3.0 mm	200 mm	4.0 mm	3
1766	Carbide milling cutter, round	3.5 mm	200 mm	4.0 mm	3
1747	Diamond milling cutter, round	3.7 mm	200 mm	4.0 mm	3
1916	Support sleeve open		355 mm	3.5 mm	1
1755	Carbide milling cutter, round	3.0 mm	355 mm	3.5 mm	3
1756	Diamond milling cutter, round	3.0 mm	355 mm	3.5 mm	3
1759	Carbide milling cutter, round	3.5 mm	355 mm	3.5 mm	3
1757	Diamond milling cutter, round	3.7 mm	355 mm	3.5 mm	3
1914	Support sleeve open		355 mm	4.0 mm	1
1915	Support sleeve with distal protector		355 mm	4.0 mm	1
1737	Support sleeve with bevelled protector		355 mm	4.0 mm	1
1911	Carbide milling cutter, round	3.0 mm	355 mm	4.0 mm	3
1912	Diamond milling cutter, round	3.0 mm	355 mm	4.0 mm	3
1738	Carbide milling cutter, round	3.5 mm	355 mm	4.0 mm	3
1913	Diamond milling cutter, round	4.0 mm	355 mm	4.0 mm	3

Motor driven tiltable spinal burr

The spine milling cutters are applied in orthopedics and traumatology, for example, with stenosis, degenerated vertebral discs or intervertebral disc hernias. With the rotary milling cutter Intervertebral disks tissue, bony constrictions or functionally disturbing formations are scraped off. The spinal milling cutter with its up to 35° tiltable instrument-head is applied in hard to access areas.





The enlargement of the milling head shows the angle which can be adjusted in steps up to a maximum of 35°.



The burrs require a special tool for the insertion and removal of the tool heads.

The entire lever mechanism of the angular adjustment is accommodated in the handpiece. Furthermore, the drill heads can be supplied with cooling liquid via a Luer-Lock connection. At the bottom of the handpiece is the coupling for the connection of the electronic motor, which is preferably powered by our HighSurg 30 or the OR tower version HighSurg T2.

OFA-Drill, motor system for percutaneous foot surgery

As part of the new generation of Nouvag's Surgical Motor Systems the OFA Drill was developed especially for MIS percutaneous foot surgery.

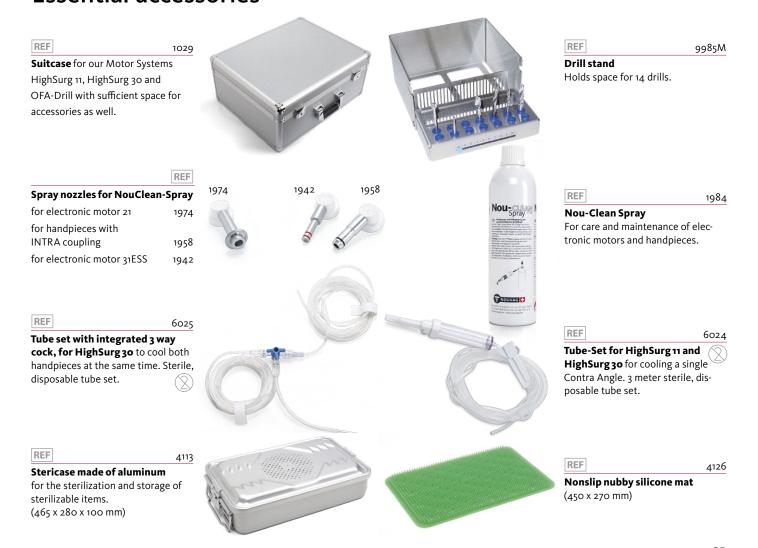
The intension behind the development of the OFA Drill is to provide a complete, simple to use Motor System, which is able to drive all required attachments and handpieces used for minimal invasive percutaneous surgery.



Instruments:

- 4:1 handpiece attachable with 12,000 rpm and high torque
- 16:1 K-wire handpiece for K-wires of 0.8 1.5 mm available
- · All Nouvag micro saws attachable.
- Smooth running electronic motor with 50,000 rpm
- · All made of medical grade stainless steel
- · Simple to use, reliable and high quality instruments.

Essential accessories







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