



**NOUVAG<sup>+</sup>**

ENT  
Surgery



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# HighSurg 30

## ENT Shaver Drill System

02





Dual motor principle



Adjustable oscillating  
shaver 300 - 5000 rpm



Simple and  
intuitive

HighSurg 30 is our comprehensive offer for motor-driven ENT surgery. HighSurg30 can be used in combination with ENT surgery components such as electronic motor and handpieces in order to perfectly match your indications.

# ENT Shaver Handpiece

The lightweight, ergonomic hybrid ENT Shaver Handpiece stands for a stress-free use in minimally invasive ENT surgery.

It is being used for shaving and removal of tissue, hard tissue or bone. Our shaver blade simply sucks out the tissue through the cutting window into the lumen of the handpiece.

Due to powerful rotation of the inner tube, the sucked tissue is removed via a "straight trough" suction channel at the end of the handpiece.

Our locking and tip rotation mechanism easily allows to rotate and lock the blade into place for safe and ergonomic access to the operation area.



**Low vibration and lightweight handpieces**



**Easy to use**



**Reliable and durable**

# ENT Shaver Blades



	Ø mm	Position	Angle	Length mm	REF
Full Radius Resector	2.5		straight	105	5318
	3.5		straight	105	5294
	3.5	concave	15°	105	5300
	3.5	convex	15°	105	5303
	3.5	concave	40°	105	5306
	3.5	convex	40°	105	5309
	3.5	concave	60°	105	5312
	3.5	convex	60°	105	5315
	4.0		straight	105	5340
	4.0	concave	15°	105	5350
	4.0	convex	15°	105	5359
	4.0	concave	40°	105	5352
	4.0	convex	40°	105	5361
	4.0	concave	60°	105	5354
	4.0	convex	60°	105	5363
	4.5		straight	105	5324



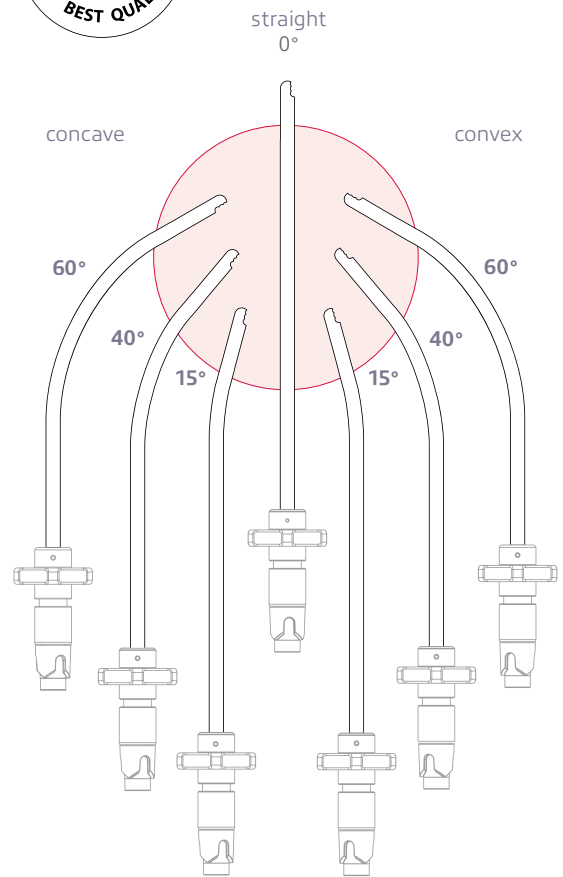
	Ø mm	Position	Angle	Length mm	REF
Aggressive Full Radius	2.5		straight	105	5322
	3.5		straight	105	5295
	3.5	concave	15°	105	5301
	3.5	convex	15°	105	5304
	3.5	concave	40°	105	5307
	3.5	convex	40°	105	5310
	3.5	concave	60°	105	5313
	3.5	convex	60°	105	5316
	4.0		straight	105	5344
	4.0	concave	15°	105	5349
	4.0	convex	15°	105	5358
	4.0	concave	40°	105	5351
	4.0	convex	40°	105	5360
	4.0	concave	60°	105	5353
	4.0	convex	60°	105	5362
	4.5		straight	105	5330



	Ø mm	Position	Angle	Length mm	REF
Tri Spike Cutter	2.5		straight	105	5320
	3.5		straight	105	5296
	3.5	concave	15°	105	5302
	3.5	convex	15°	105	5305
	3.5	concave	40°	105	5308
	3.5	convex	40°	105	5311
	3.5	concave	60°	105	5314
	3.5	convex	60°	105	5317
	4.0		straight	105	5342
	4.0	concave	15°	105	5346
	4.0	convex	15°	105	5355
	4.0	concave	40°	105	5347
	4.0	convex	40°	105	5356
	4.0	concave	60°	105	5348
	4.0	convex	60°	105	5357
	4.5		straight	105	5328



	Ø mm	Position	Angle	Length mm	REF
Trimmer	2.5		straight	105	5290
	3.5		straight	105	5291
	4.0		straight	105	5292



## Shaver-blades for Rhinology

	Ø mm	Position	Angle	Length mm	REF
Rhino Rose Burr	3.5		straight	130	5272
	3.5	concave	15°	130	5273
	3.5	concave	60°	130	5274



	Ø mm	Position	Angle	Length mm	REF
Rhino Cylindrical Burr	3.5		straight	130	5275
	3.5	concave	15°	130	5276
	3.5	concave	60°	130	5277



	Ø mm	Position	Angle	Length mm	REF
Rhino Diamond Burr	3.5	concave	15°	130	5271



ENT shaver blades currently only available for sale in selected countries, please consult us for further detailed information if you are interested to buy!



# Micro saws for ENT Surgery

15 000rpm

Micro Saw handpieces with high torque power for all functional or aesthetic procedures in Nasal Surgery for sawing and rasping.



#### MSS 5000

The further developed Micro Compass Saw works with a stroke of 4 mm at 75 strokes per second, which significantly enhances the cutting performance – ideal for Lateral Osteotomy with Saw Blade 5112nou.

#### MOS 5000

The Micro Sagittal Saw has an oscillation frequency of 250 cycles per second. Saw blades are often bent to match the correct angle of an intended cut.

#### OMS 5000

The Oscillating Micro Saw works with a frequency of 250 oscillations per second – ideal for Intermediate Osteotomy.

Sagittal Saw MOS 5000	REF: 5110nou
Weight	122 g
Oszillation angle	5°

Micro Compass Saw MSS 5000	REF: 5040nou
Weight	122 g
Stroke	4 mm

Oscillating Saw OMS 5000	REF: 5090nou
Weight	142 g
Oscillation angle	25°

# Saw blades

Saw blades for:  
Micro Compass Saw, MSS 5000



REF:  
5049rnou  
1 of each

Set

Saw blades	Field of use/ Form	Useful length	PU*	REF sterile	REF non sterile
	Rhinology	6 mm	1	5112snou	5112rnou
	straight	26 mm	5	5045snou	5045rnou
	straight	22 mm	5	5044snou	5044rnou
	straight	18 mm	5	5043snou	5043rnou
	straight	14 mm	5	5042snou	5042rnou
	straight	11 mm	5	5041snou	5041rnou
	rounded	17 mm	5	5105snou	5105rnou
	rounded	21 mm	5	5106snou	5106rnou

\* PU: Packaging unit

Saw blades for:  
Oscillating Micro Saw, OMS 5000



Saw blade	Cutting depth	Useful width	Shank length 33 mm	Shank length 45 mm	PU*	REF sterile	REF non sterile
	3.0 mm	6.0 mm	-	▪	1	5101snou	5101nou
	6.3 mm	6.0 mm	▪	-	1	5100snou	5100rnou
	6.3 mm	6.0 mm	-	▪	1	5099snou	5099rnou
	13.3 mm	6.0 mm	▪	-	1	5093snou	5093rnou
	13.3 mm	6.0 mm	-	▪	1	5096snou	5096rnou
	13.3 mm	10.0 mm	▪	-	1	5094snou	5094rnou
	13.3 mm	10.0 mm	-	▪	1	5097snou	5097rnou
	13.3 mm	15.0 mm	▪	-	1	5095snou	5095rnou
	13.3 mm	15.0 mm	-	▪	1	5098snou	5098rnou

\* PU: Packaging unit

Saw blades for:  
Sagittal Saw, MOS 5000



REF:  
5120rnou  
1 of each

Set

Saw blades	Form	Cutting width	Useful depth	PU*	REF sterile	REF non sterile
	straight	4 mm	12 mm	5	5115snou	5115rnou
	straight	6 mm	12 mm	5	5116snou	5116rnou
	rounded	6 mm	12 mm	5	5114snou	5114rnou
	straight	6 mm	17 mm	5	5117snou	5117rnou
	straight	10 mm	17 mm	5	5118snou	5118rnou
	straight	12 mm	29 mm	5	5119snou	5119rnou

\* PU: Packaging unit

50 000 rpm

# 1:1 Surgery handpieces

These handpieces are available in various lengths and as straight and angled versions.

Our quick coupling handpieces are perfectly balanced with low vibration for fatigue free working and do have a rotatable irrigation line.

Those features ensure the handpieces can be used in various types of operations.





**REF: 1710nou**  
 Weight | 80 g  
 Tool length | 44 mm



**REF: 1950nou**  
 Weight | 86 g  
 Tool length | 70 mm



**REF: 1951nou**  
 Weight | 86 g  
 Tool length | 95 mm



**REF: 1952nou**  
 Weight | 92 g  
 Tool length | 125 mm



# Drills for ENT 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	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	RC.125.023
	2.7	8	RC.070.027	.	.
	3.1	8	RC.070.031	RC.095.031	RC.125.031
	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	.	.

## Diamond Burr

Diamond ball burr



Head Ø, mm	Shank length 70 mm REF burr:	Shank length 95 mm REF burr:	Shank length 125 mm REF 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	.	.

## Diverse forms

Wire pass drill Carbide



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:
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	.

# Electronic motor 21

50 000 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.



REF 2099nou: Electronic motor 21

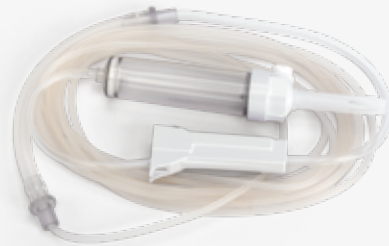


# Accessories



**REF: 1029:** Suitcase with foam for HighSurg 11& HighSurg 30

**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

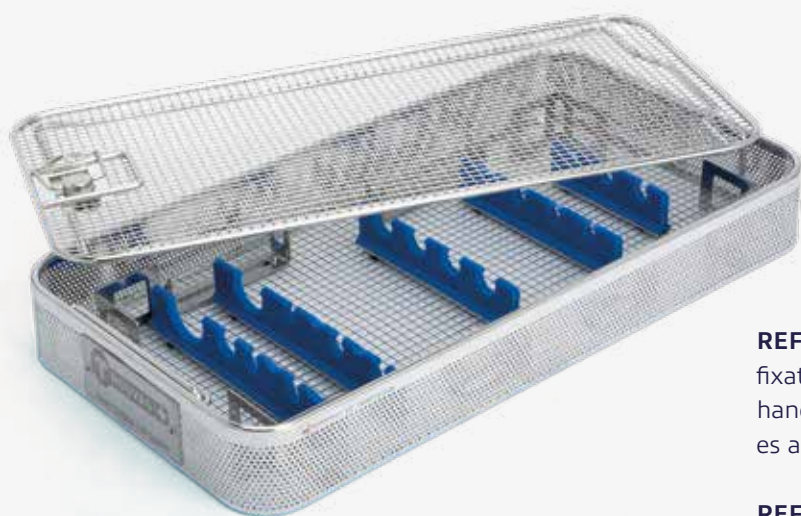
# Maintenance and care



**REF 2127:** Spraynet for pre-cleaning, during the reprocessing procedure



**REF 2128:** Lubrifluid maintenance and care spray, to be used during the reprocessing procedure



**REF 4132:** Sterilization Basket with fixation for the sterilization of the ENT handpieces, Micro Saws, Shaver handpieces and the Electronic Motor.

**REF 4134:** Optional lid for Sterilization Basket



# Technical data

## HIGH SURG 30: 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	3.3 kg
Pedal IP code	IPX8
Shaver speed	300 – 6000 rpm, (Continuous mode)
Shaver speed	300 – 5000 rpm, (Oszillation mode)
Shaver oszillation periode	0.2 – 3.0 sek, (Oszillation-mode)

## HNO-Handpieces: REF 1950<sup>nou</sup>-1952<sup>nou</sup>, 1960<sup>nou</sup>-1962<sup>nou</sup>

Transmission	1 : 1
Max. torque	6 Ncm
Coupling	ISO 3964
Max speed	15 000 rpm

## Electronic motor 21: REF 2099<sup>nou</sup>

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

## ENT-Shaver-Handpiece: REF 2092<sup>nou</sup>

Speed range	300 – 6 000 rpm
Max. Torque	12 Ncm
Coupling	ISO 3964
Weight	110 g

## Micro saws: REF 5040<sup>nou</sup>, 5090<sup>nou</sup>, 5110<sup>nou</sup>

Transmission	1 : 1
Max. torque	6 Ncm
Coupling	ISO 3964
Max speed	15 000 rpm

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