



ENT Surgery

HighSurg 11

ENT Shaver and Micro Drill system





Our basis for motor-driven ENT surgery is the „HighSurg 11“ motor system. In conjunction with the electronic motor and the handpieces described in this brochure, you will receive exclusively for ENT surgery developed components that perfectly match your indications.

**Intuitive
programming**

**Integrated
peristaltic pump**

**Oscillating shaver
300 - 5000 rpm**

ENT Shaver Handpiece

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

It's applied for shaving and removal of tissue, hard tissue or bone. The Shaver blade therefore simply sucks the tissue through the cutting window into the lumen. Due to the powerful rotation of the inner tube, the sucked tissue is removed via the „straight through“ suction channel at the end of the hand piece.

The easylocking and tip rotation mechanism allows to rotate and lock the blade into place for a safe and perfect access to the operation area.



REF 2092nou: ENT Shaver Handpiece

Low vibration

Ergonomic and lightweight

Robust

Shaver blades for ENT Surgery

	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	



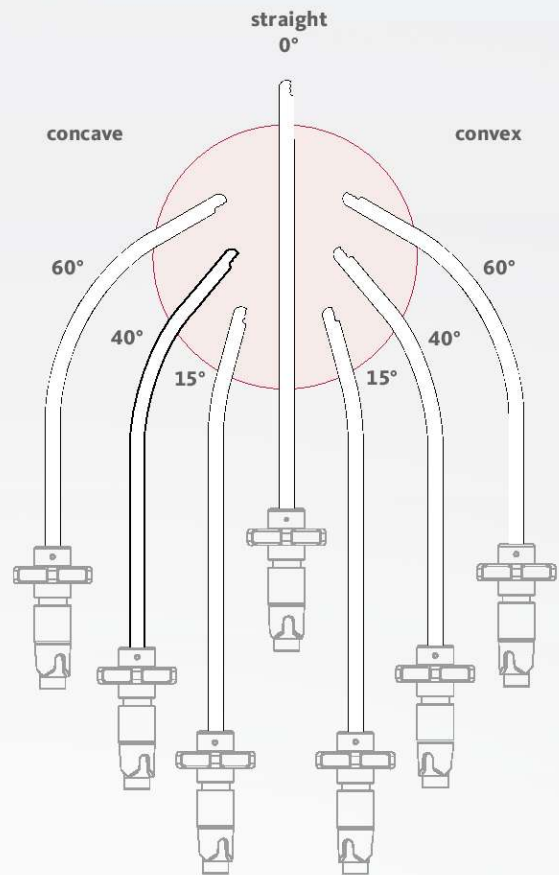
	Ø mm	Position	Angle	Length, mm	REF
Aggressive Full Radius	2.5		straight	105	5322
	3.5		straight	105	5295
	3.5	concave	15°	105	5301
	3.5	convex	15°	105	5304
	3.5	concave	40°	105	5307
	3.5	convex	40°	105	5310
	3.5	concave	60°	105	5313
	3.5	convex	60°	105	5316
	4.0		straight	105	5344
	4.0	concave	15°	105	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
Rhino Cylindrical Burr	3.5		straight	130	5275
	3.5	concave	15°	130	5276
	3.5	concave	60°	130	5277
Rhino Diamond Burr	3.5	concave	15°	130	5271



STERILE



Micro saws for ENT Surgery

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 5112.

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 266 oscillations per second – ideal for Intermediate Osteotomy.

Sagittal Saw MOS 5000	REF 5110nou	Micro Compass Saw MSS 5000	REF 5040nou	Oscillating Saw OMS 5000	REF 5090nou
Weight	100 g	Weight	130 g	Weight	140 g
Oscillation angle	5°	Stroke	4 mm	Oscillation angle	25°

Saw blades

Saw blades for:
Micro Compass Saw, MSS 5000



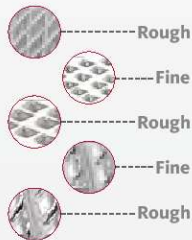
REF 5049nou
1 of each

Set

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

* PU: Packaging unit

Rasps for:
Micro Compass Saw, MSS 5000
Ideal for reducing the nasal hump



Rasps	Total length	Useful length	PU*	REF
	70 mm	28 mm	1	5046nou
	100 mm	36 mm	1	5125nou
	100 mm	36 mm	1	5126nou
	100 mm	36 mm	1	5127nou
	100 mm	36 mm	1	5128nou

* 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
	3.0 mm	6.0 mm	-	•	1	5101nou
	6.3 mm	6.0 mm	•	-	1	5100nou
	6.3 mm	6.0 mm	-	•	1	5099nou
	13.3 mm	6.0 mm	•	-	1	5093nou
	13.3 mm	6.0 mm	-	•	1	5096nou
	13.3 mm	10.0 mm	•	-	1	5094nou
	13.3 mm	10.0 mm	-	•	1	5097nou
	13.3 mm	15.0 mm	-	•	1	5098nou

* PU: Packaging unit

Saw blades for:
Sagittal Saw, MOS 5000



REF 5120nou
1 of each

Set

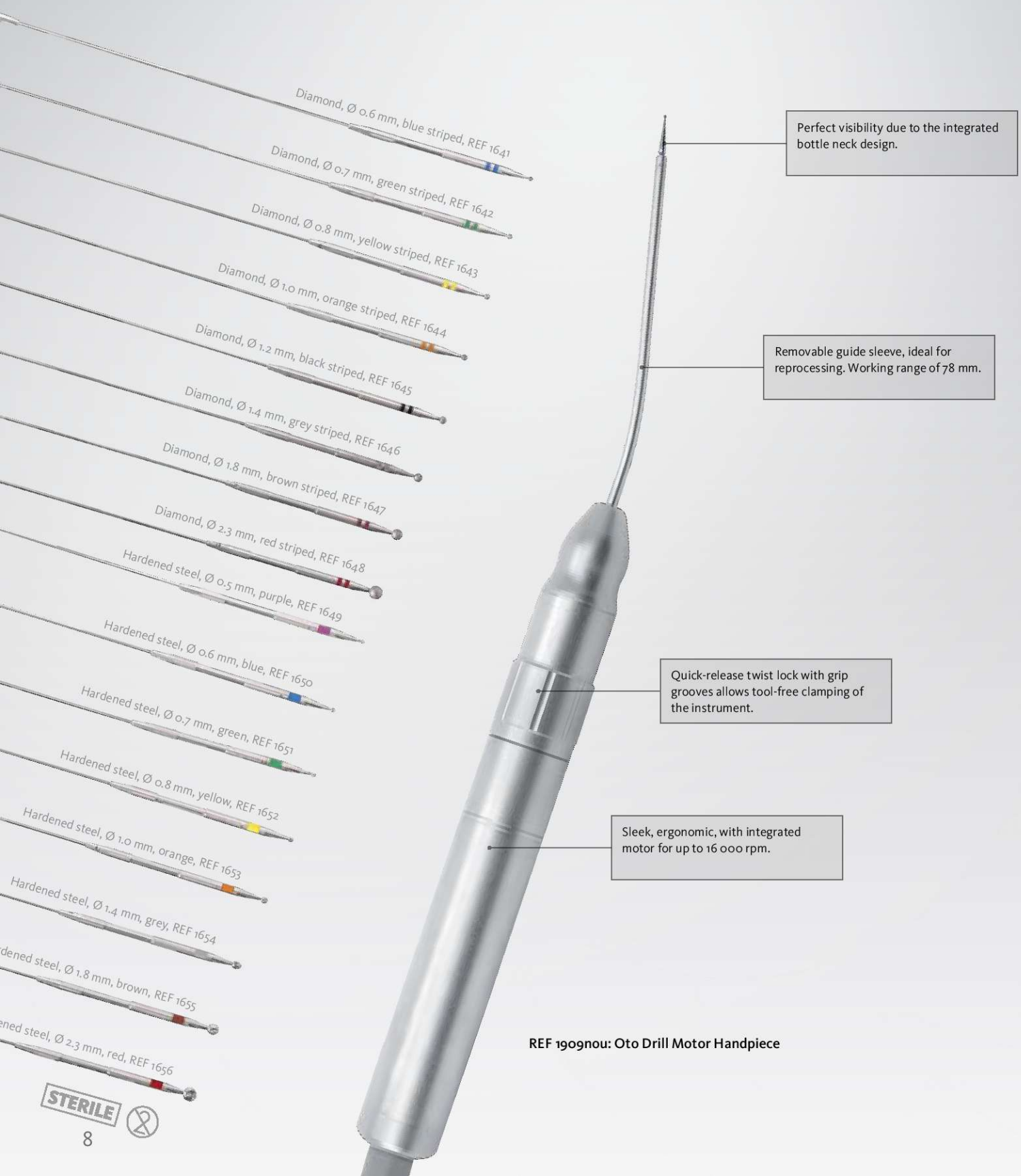
Saw blades	Form	Cutting width	Useful depth	PU*	REF
	straight	6 mm	12 mm	6	5115nou
	straight	6 mm	12 mm	6	5116nou
	rounded	6 mm	12 mm	6	5114nou
	straight	6 mm	17 mm	6	5117nou
	straight	10 mm	17 mm	6	5118nou
	straight	12 mm	29 mm	6	5119nou

* PU: Packaging unit

Oto Drill Motor Handpiece

16 000 rpm

The small and lightweight Oto Drill handpiece has been developed especially for micro-shaping in Facial Stapedotomy and the reconstruction of the ossicular chain in the middle ear. A delicate and precise handpiece for the exact processing of the finest human bones.



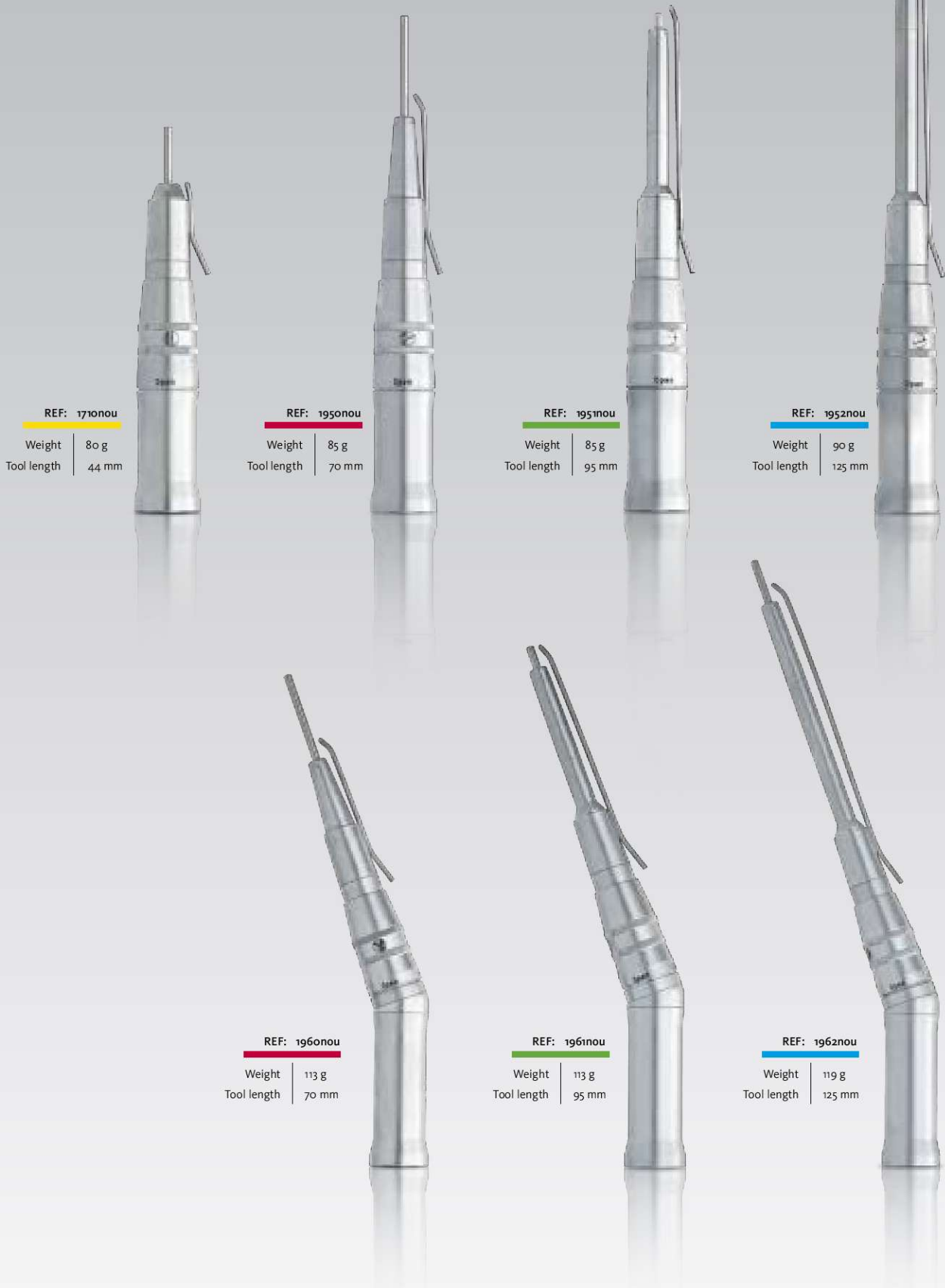
REF 1909nou: Oto Drill Motor Handpiece

STERILE 

1:1 Surgery handpiece

50 000 rpm

The slim handpieces are available in various lengths, as straight and curved versions. The quick coupling handpieces are perfectly balanced with low vibration for a fatigue free working in various types of operations with a rotatable irrigation line.



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


**Ergonomic
and light weight**


Robust


**Directional
self ventilation**


Burrs for ENT Surgery


	Head Ø mm	Shank length 44 mm	Shank length 70 mm	Shank length 95 mm	Shank length 125 mm
Diamond burr 	0.6	-	2850	-	-
	0.7	-	2851	-	-
	0.8	-	2852	-	-
	1.0	-	2853	-	-
	1.4	-	2854	2874	2923
	1.6	-	2828	-	-
	1.8	-	2855	2875	2924
	2.1	-	2829	-	-
	2.3	-	2856	2876	2925
	2.5	-	2868	-	-
	2.7	-	2857	2877	2926
	3.1	-	2858	2878	2927
	3.5	-	2859	2879	2929
	4.0	-	2860	2880	2930
	4.5	-	2861	2881	2931
	5.0	-	2862	2882	2932
6.0	-	2863	2883	2933	
7.0	-	2864	2884	2934	
Rose burr, stainless steel 	0.5	-	2724	-	-
	0.8	-	2752	-	-
	1.0	2716	2753	-	-
	1.4	2717	2754	2745	2946
	1.8	-	2755	2747	2947
	2.3	-	2756	2749	2948
	2.7	2767	2757	2783	2949
	3.1	-	2758	2778	2738
	3.5	-	2759	2779	2739
	4.0	2718	2760	2780	2740
	4.5	-	2761	2942	2950
	5.0	2719	2762	2943	2951
6.0	2722	2763	2944	2952	
7.0	2723	2764	2945	2953	
Rose burr, tungsten carbide 	0.5	-	-	2823	-
	0.8	-	2831	2824	-
	1.0	-	2832	2808	-
	1.4	-	2833	-	-
	1.8	-	2834	2809	-
	2.3	-	2835	2906	-
	2.7	-	2836	-	-
	3.1	-	2822	2907	-
	3.5	-	2838	2908	-
	4.0	-	2839	2909	-
	4.5	-	2840	2938	-
	5.0	-	2841	2939	-
6.0	-	2842	2940	-	
7.0	-	2843	2941	-	
Rose burr, hardened steel 	0.5	-	2830	-	-
	3.1	-	-	-	2935
	5.0	-	-	-	2936
	7.0	-	-	-	2937

	Head Ø mm	Shank length 57 mm	Shank length 70 mm
Round burr, stainless steel 	0.6	-	2750
	0.7	-	2751
	0.8	-	2752
	2.3	2765	-
	2.7	2766	-
	3.1	2768	-
	4.0	2769	-
	5.0	2770	-

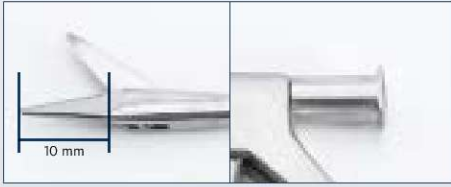
	Head Ø mm	Shank length 44 mm	Shank length 70 mm
Bud burr 	5.0	2720	-
	6.0	2721	-

	Head Ø mm	Shank length 44 mm	Shank length 70 mm
Bud burr with cross-train 	5.0	-	2726
	6.0	-	2728
	8.0	-	2729

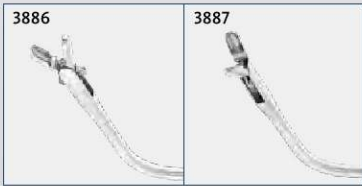
	Head Ø mm	Shank length 44 mm	Shank length 70 mm
Cylinder with cross-train 	4.0	-	2741
	5.0	-	2742
	6.0	-	2743
	7.0	-	2744

	Total length, mm	Shank Ø 2.3 mm
Lindemann fraise 	62	2771
	70	2772
	45	2773

FESS-Instrumente



REF 3884: Nose Scissors straight, 130 mm working length, Luer Lock connection



REF 3885: Watson-Williams Ethmoid Forceps, jaw 6 x 5 x 12 mm, 120 mm working length

REF 3886: Biopsy Forceps with cup jaws, 70° upwards curved, vertical opening

REF 3887: Biopsy Forceps with cup jaws, 70° upwards curved, horizontal opening



REF 3889: Risso punch, punch head Ø 4.5 mm, 170 mm working length, with Luer Lock connector and cover

REF 3888: Risso punch, punch head Ø 3.5 mm, 170 mm working length, with Luer Lock connector and cover

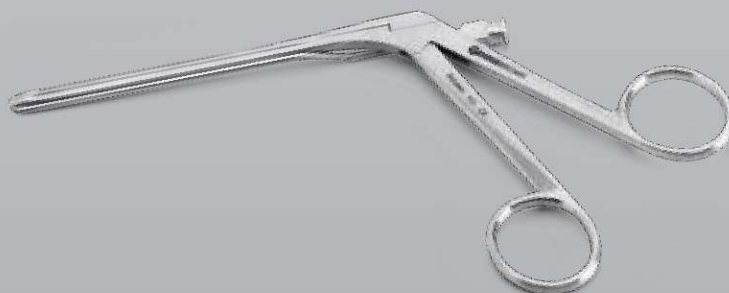
REF 3890: Risso punch, punch head Ø 3.5 mm, upwards curved, 170 mm working length, with Luer Lock connection and cover



REF 3878: Struycken-Forceps, jaw 1.5 x 15.0 mm, 110 mm working length



REF 3883: Forceps straight, jaw 3.6 x 8.0 mm, with Luer Lock connection





REF 3879: Forceps straight, jaw 3.6 x 8.0 mm, 110 mm working length, with Luer Lock connection



REF 3880: Forceps 45° bent, rough cutting, 3.6 mm width of influence, 8.0 mm length of influence, 110 mm working length, with Luer Lock connection



REF 3881: Forceps 90° bent, jaw 3.6 x 8.0 mm, with Luer Lock connection



REF 3882: Forceps 45° bent, jaw 3.6 x 8.0 mm, with Luer Lock connection



REF 3862: Sinuscopy trocar, Ø 3.3 mm, 85 mm working length, 160 mm total length



REF 3863: Sinuscopy trocar, Ø 5.0 mm, 85 mm working length, 160 mm total length



REF 3893: Suction/Irrigation handle for ENT surgery with Luer lock tubing connection, suction tube connection and trigger button for liquid supply

REF 3892: Suction/Irrigation sheath, exchangeable with 70° angled effectual area, Ø 4.0 mm for the use with handle 3893

REF 3891: Suction/Irrigation sheath, exchangeable with 0° angled effectual area, Ø 4.0 mm, for the use with handle 3893



Autoclavable Sinus-Scopes for nose surgery are available in different lengths and diameters

REF 3817: Sinus-Scope, 4 mm, 30°, 175 mm length

REF 3818: Sinus-Scope, 4 mm, 70°, 175 mm length

FESS instruments

REF 3867: Maxillary Sinus Spoon, oval, 195 mm length



REF 3868: Maxillary Sinus Spoon, oval, 55° angled, 195 mm length



REF 3869: Maxillary Sinus Spoon, oval, 90° angled, 195 mm length



REF 3870: Curette, forward-tapping, 7.0 mm wide, oval, 90° angled, 195 mm length



REF 3865: Sickle knife, pointed, 190 mm length



REF 3866: Freer Elevator, 4.5 mm blunt/sharp, 195 mm length



REF 3872: Cottle periosteum elevator, 200 mm length



REF 3873: Suction Cannula, conical, Ø 3.0 mm, 165 mm length, working length 145 mm



REF 3874: Frazier Suction Tube, Ø 2.7 mm, working length 130 mm



REF 3875: Eicken-Killian Pine Cannula, Ø 2.5 mm, working length 75 mm

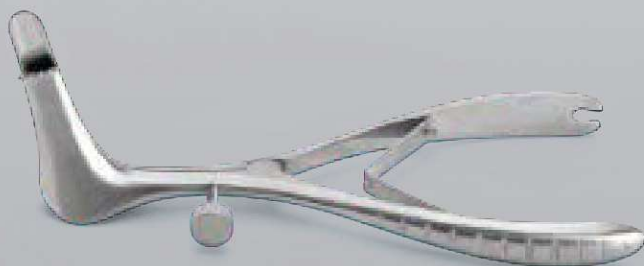
REF 3876: Eicken-Killian Pine Cannula, Ø 3.0 mm, working length 75 mm



REF 3864: Septum Cannula, Ø 0.8 mm



REF 3859: Nose Specula holder, complete, consisting of Clamp Arm and Fixing Device for fastening to pipes of up to 16 mm diameter



REF 3860: Killian Speculum, 40/55 mm left; compatible with Specula arm 3859; left shortened shank is toothed



REF 3861: Killian Speculum, 55/40 mm right; compatible with Specula arm 3859; right shortened shank is toothed

Accessories



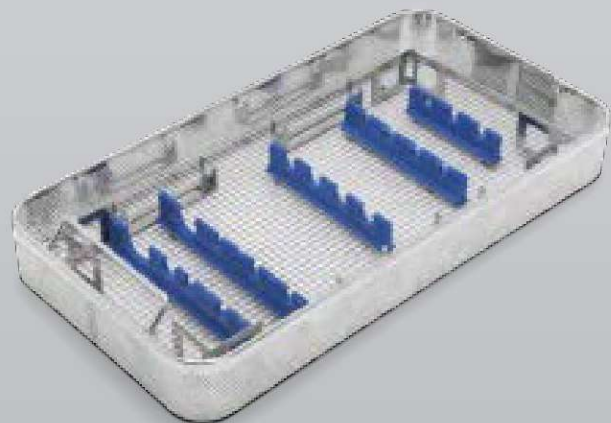
REF 1029: Transport case with foam insert for transporting and storing the HighSurg 11 and its accessories



REF 1898: Vexio cart; modern trolley with two shelves and lockable antistatic rollers, bottle holder and integrated power supply
(**REF 1894:** Bottle holder stand is optional)



REF: 9985M: Drill stand for up to 14 drills with a height of maximum 80 mm.



REF 4132: Sterilization Basket with fixation for the sterilization of the ENT handpieces, Oto Drill Motor Handpiece, Micro Saws, Shaver handpiece and the Electronic Motor

REF 4134: Optional lid for Sterilization Basket

Further accessories	REF
Tubing set for HighSurg 11	6024
NouvaClean, Cleaning spray	2127
NouvaOil, lubricant spray	2128



Technical data

HIGH SURG 11: REF 3391

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)

ENT Shaver Handpiece: REF 2092nou

Speed range	300 – 6000 rpm
Max. torque	12 Ncm at the Shaver Blade
Coupling	ISO 3964
Weight	110 g

Handpieces for ENT Sugery: REF 1950nou-1952nou, 1960nou-1962nou

Transmission	1:1
Max. torque	6 Ncm
Coupling motor	ISO 3964
Max. speed	50 000 rpm

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

OtoDrill Motor Handpiece: REF 1909nou

Speed range	1000 – 16 000 rpm
Max. Torque	1 Ncm
Cable length	3 m
Weight	115 g (without cable)

Micro saws: REF 5040nou, 5090nou, 5110nou

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

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



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