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STANDARD FOOT
STANDARDFUSS

All TURNUS shafts are compatible with punch handle TGG-0 (see page 9)
Alle TURNUS-Schäfte passen in den Stanzengriff TGG-0 (siehe Seite 9)

FOOT SIZE FUSSBREITE mm	SHAFT LENGTH SCHAFTLÄNGE mm		
0,6	180	TGC-0	TGM-0
	200	TGA-0	TGK-0
1,0	180	TGC-1	TGM-1
	200	TGA-1	TGK-1
	250	TGE-1	TGO-1
	300	TGG-1	TGQ-1
	400	TGI-1	TGS-1
1,5	180	TGC-7	TGM-7
	200	TGA-7	TGK-7
	250	TGE-7	TGO-7
	300	TGG-7	TGQ-7
	400	TGI-7	TGS-7
2,0	180	TGC-2	TGM-2
	200	TGA-2	TGK-2
	250	TGE-2	TGO-2
	300	TGG-2	TGQ-2
	400	TGI-2	TGS-2
2,5	180	TGC-8	TGM-8
	200	TGA-8	TGK-8
	250	TGE-8	TGO-8
	300	TGG-8	TGQ-8
	400	TGI-8	TGS-8
3,0	180	TGC-3	TGM-3
	200	TGA-3	TGK-3
	250	TGE-3	TGO-3
	300	TGG-3	TGQ-3
	400	TGI-3	TGS-3
4,0	180	TGC-4	TGM-4
	200	TGA-4	TGK-4
	250	TGE-4	TGO-4
	300	TGG-4	TGQ-4
	400	TGI-4	TGS-4
5,0	180	TGC-5	TGM-5
	200	TGA-5	TGK-5
	250	TGE-5	TGO-5
	300	TGG-5	TGQ-5
	400	TGI-5	TGS-5
6,0	180	TGC-6	TGM-6
	200	TGA-6	TGK-6
	250	TGE-6	TGO-6
	300	TGG-6	TGQ-6
	400	TGI-6	TGS-6

All punches with length 300 and 400 mm are calibrated.

CERAMO®

SUBLAMINAR PUNCHES
SUBLAMINAR STANZEN



JAW WIDTH MAULBREITE mm	SHAFT LENGTH SCHAFTLÄNGE mm	CISDURAL	TRANSDURAL
1,0	200	NND-1	—
2,0	200	NND-2	NVD-2
	250	NVC-2	NVE-2
3,0	200	NND-3	NVD-3
	250	NVC-3	NVE-3
4,0	200	NND-4	NVD-4
	250	NVC-4	NVE-4
5,0	200	NND-5	NVD-5
	250	NVC-5	NVE-5

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FIST PUNCHES
FIST STANZEN

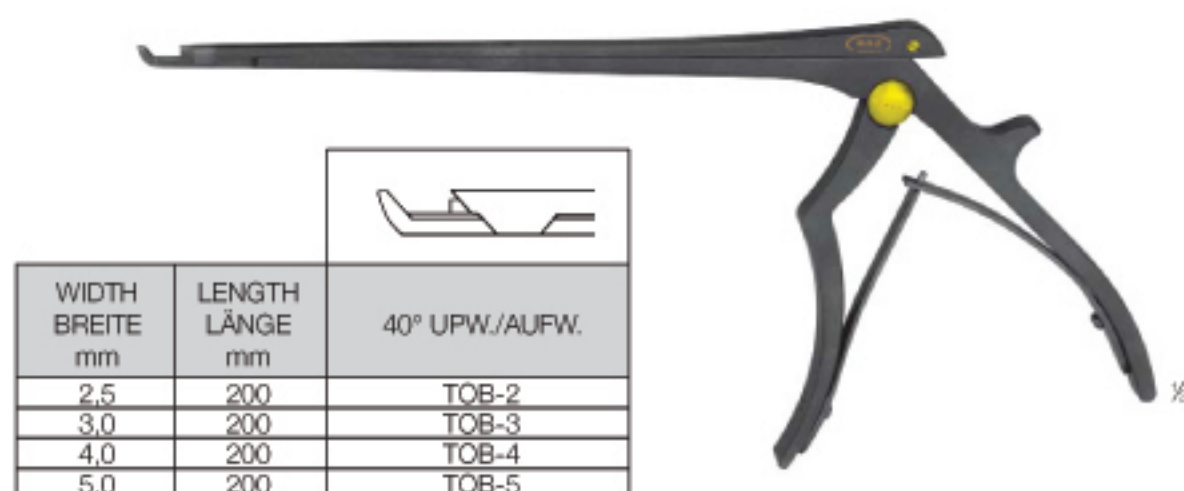


WIDTH BREITE mm	LENGTH LÄNGE mm		
		40° UPW./AUPW.	90° DOWNW./ABW.
2,0	200	NLF-0	–
3,0	200	NLF-1	NLG-5
	300	NLF-5	NLH-1
	400	NLG-1	NLH-5
4,0	200	NLF-2	NLG-6
	300	NLF-6	NLH-2
	400	NLG-2	NLH-6
5,0	200	NLF-3	NLG-7
	300	NLF-7	NLH-3
	400	NLG-3	NLH-7
6,0	200	NLF-4	NLG-8
	300	NLF-8	NLH-4
	400	NLG-4	NLH-8
7,0	300	NLF-9	–

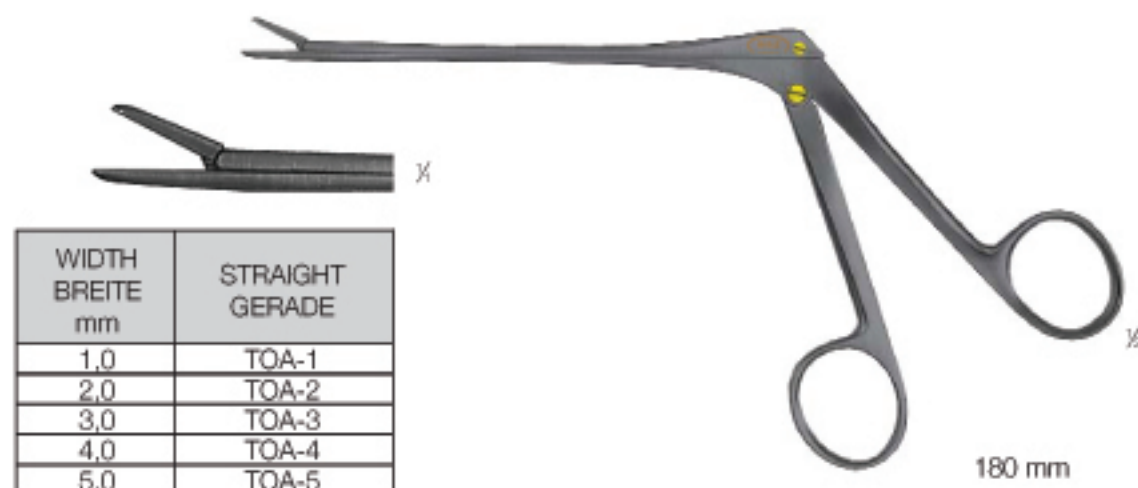
All punches of 300 mm or longer are calibrated.

CERAMO® **TITANIUM**

EJECTOR PUNCHES
AUSWERFERSTANZEN



GRUENWALD RONGEURS / RONGEURE



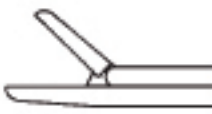
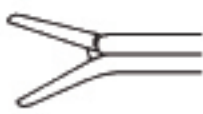
Titanium is a metal not usually appropriate for punches and rongeurs because of its limited hardness. These titanium instruments are particularly made for open MRI surgery where steel instruments can not be used. Please handle with special care, don't overload: **high risk of deformation.**

Titan ist wegen seiner geringen Härte normalerweise nicht für die Herstellung von Stanzen und Rongeurs geeignet. Diese Titaninstrumente finden Einsatz in der offenen MRI-Chirurgie, wo Stahlinstrumente nicht gebraucht werden können. Diese Instrumente sind mit besonderer Vorsicht zu benutzen und vor Überlastung zu schützen: **Hohes Verformungsrisiko.**

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RONGEURS
RONGEURE

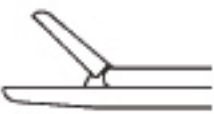
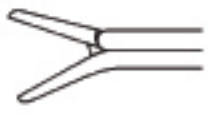
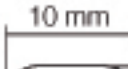


					
JAW TYPE MAULFORM	WIDTH BREITE mm	LENGTH LÄNGE mm	STRAIGHT GERADE	30° UPW./AUFW.	30° DOWNW./ABW.
 WEIL- BLAKESLEY	2,5	130	NMA-2	NMB-2	NMC-2
		160	NMD-2	NME-2	NMF-2
	3,0	130	NMA-3	NMB-3	NMC-3
		160	NMD-3	NME-3	NMF-3
	4,0	130	NMA-4	NMB-4	NMC-4
		160	NMD-4	NME-4	NMF-4
	5,0	130	NMA-5	NMB-5	NMC-5
		160	NMD-5	NME-5	NMF-5
	6,0	130	NMA-6	NMB-6	NMC-6
		160	NMD-6	NME-6	NMF-6
 SERRATED GEZAHNT CASPAR	2,0	160	NMG-1	NMH-1	NMI-1
		180	NMG-0	NMH-0	-
	2,5	160	NMG-2	NMH-2	NMI-2
		180	NMG-6	NMH-6	NMI-6
	3,0	160	NMG-3	NMH-3	NMI-3
		180	NMG-7	NMH-7	NMI-7
	4,0	160	NMG-4	NMH-4	NMI-4
		180	NMG-8	NMH-8	NMI-8
	5,0	160	NMG-5	NMH-5	NMI-5
		180	NMG-9	NMH-9	NMI-9

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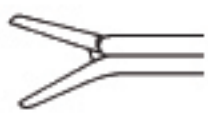
RONGEURS
RONGEURE

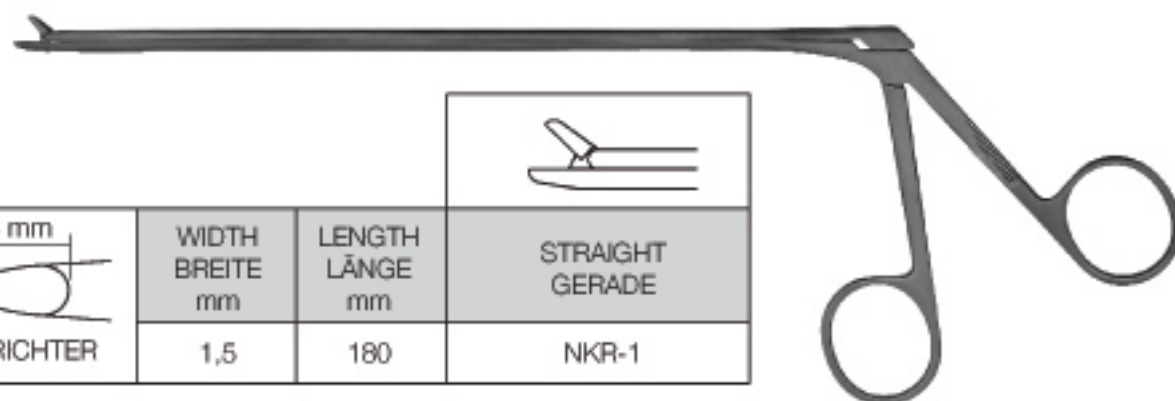


					
JAW TYPE MAULFORM	WIDTH BREITE mm	LENGTH LÄNGE mm	STRAIGHT GERADE	30°/45° UPW./AUPW.	30°/45° DOWNW./ABW.
 (LOVE-) GRUENWALD	1,0	180	NMM-1	NMN-1	NMO-1
	2,0	160	NMJ-2	NMK-2	NML-2
		180	NMM-2	NMN-2	NMO-2
		250	NMP-2	NMQ-2	NMR-2
		300	NMW-9	NMW-7 (45°)	NMW-8 (45°)
		400	NMK-6	NMT-6 (45°)	NMT-8 (45°)
	3,0	160	NMJ-3	NMK-3	NML-3
		180	NMM-3	NMN-3	NMO-3
		250	NMP-3	NMQ-3	NMR-3
		300	NMW-3	NMW-1 (45°)	NMW-2 (45°)
		400	NMK-7	NMT-7 (45°)	NMT-9 (45°)
	4,0	160	NMJ-4	NMK-4	NML-4
		180	NMM-4	NMN-4	NMO-4
		250	NMP-4	NMQ-4	NMR-4
		300	NMU-5	NMU-1 (45°)	NMU-2 (45°)
		400	NMK-8	NMU-3 (45°)	NMU-4 (45°)
	5,0	160	NMJ-5	NMK-5	NML-5
		180	NMM-5	NMN-5	NMO-5
		250	NMP-5	NMQ-5	NMR-5
		300	NMW-6	NMW-4 (45°)	NMW-5 (45°)
		400	NMK-9	NMU-8 (45°)	NMU-9 (45°)

All rongeurs of 300 mm or longer are calibrated.
Alle Rongeure in 300 mm oder länger sind graduert.

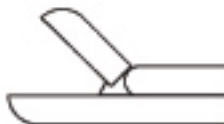


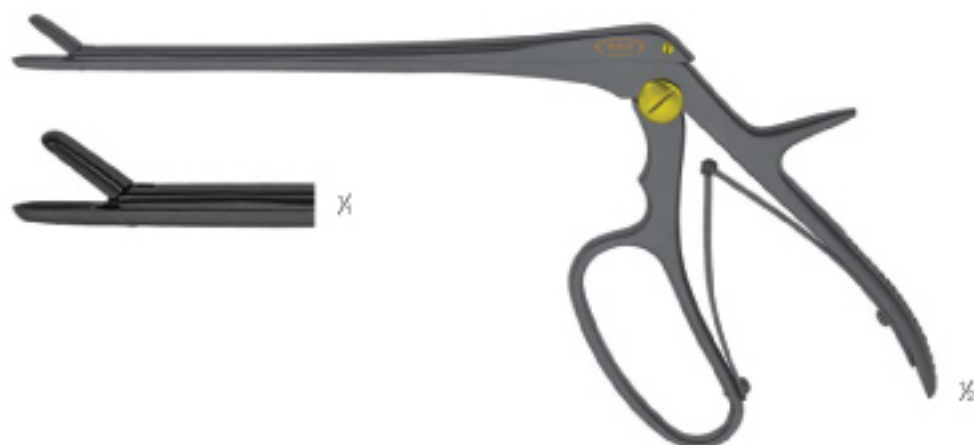
					
JAW TYPE MAULFORM	WIDTH BREITE mm	LENGTH LÄNGE mm	STRAIGHT GERADE	30° UPW./AUPW.	30° DOWNW./ABW.
 8,5 mm GRUMME	2,0	120	NLO-2	NLO-6	NLN-6
		160	NLT-2	NLT-6	NLV-2
		180	NLU-2	NLU-6	NLV-6
	3,0	120	NLO-3	NLO-7	NLN-7
		160	NLT-3	NLT-7	NLV-3
		180	NLU-3	NLU-7	NLV-7
	4,0	120	NLO-4	NLO-8	NLN-8
		160	NLT-4	NLT-8	NLV-4
		180	NLU-4	NLU-8	NLV-8
	5,0	120	NLO-5	NLO-9	NLN-9
		160	NLT-5	NLT-9	NLV-5
		180	NLU-5	NLU-9	NLV-9

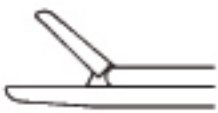
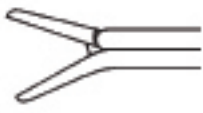


			
4 mm 	WIDTH BREITE mm	LENGTH LÄNGE mm	STRAIGHT GERADE
RICHTER	1,5	180	NKR-1



WIDTH BREITE mm	LENGTH LÄNGE mm		
		STRAIGHT GERADE	30° UPW./AUFW.
2,0	180	TOC-0	TOF-0
	200	TOG-0	TOH-0
	250	TOI-0	TOJ-0
	300	TOK-0	TON-0
2,5	200	TOG-7	-
3,0	180	TOC-1	TOF-1
	200	TOG-1	TOH-1
	250	TOI-1	TOJ-1
	300	TOK-1	TON-1
3,5	200	TOG-8	-
4,0	180	TOC-2	TOF-2
	200	TOG-2	TOH-2
	250	TOI-2	TOJ-2
	300	TOK-2	TON-2
5,0	180	TOC-3	TOF-3
	200	TOG-3	TOH-3
	250	TOI-3	TOJ-3
	300	TOK-3	TON-3
6,0	180	TOC-4	TOF-4
	200	TOG-4	TOH-4
	250	TOI-4	TOJ-4
	300	TOK-4	TON-4
7,0	180	TOC-5	TOF-5
	200	TOG-5	TOH-5
	250	TOI-5	TOJ-5
	300	TOK-5	TON-5
8,0	180	TOC-6	TOF-6
	200	TOG-6	TOH-6
	250	TOI-6	TOJ-6
	300	TOK-6	TON-6



JAW TYPE MAULFORM	WIDTH BREITE mm	LENGTH LÄNGE mm	  		
			STRAIGHT GERADE	30° UPW./AUFW.	30° DOWNW./ABW.
 GRUENWALD	3,0	200	NLA-1	NLB-5	NLD-1
		300	NLA-5	NLC-1	NLD-5
		400	NLB-1	NLC-5	NLE-1
	4,0	200	NLA-2	NLB-6	NLD-2
		300	NLA-6	NLC-2	NLD-6
		400	NLB-2	NLC-6	NLE-2
	5,0	200	NLA-3	NLB-7	NLD-3
		300	NLA-7	NLC-3	NLD-7
		400	NLB-3	NLC-7	NLE-3
	6,0	200	NLA-4	NLB-8	NLD-4
		300	NLA-8	NLC-4	NLD-8
		400	NLB-4	NLC-8	NLE-4

CERAMO®

BONE RONGEURS
HOHLMEISSELZANGEN



1,5 mm
NKL-8

½

BOEHLER
150 mm



2 mm
NKL-1



3 mm
NKA-1



4 mm
NKA-2



2 mm
NKA-3



3 mm
NKA-4



3 mm

½

BEYER
180 mm
NKA-5



4 mm

½

ZAUFAL-JANSEN
180 mm
NKA-6



5 mm

½

RUSKIN
190 mm
NKA-7

CERAMO®

BONE RONGEURS
HOHLMEISSELZANGEN



2 mm
NKA-8



3 mm
NKA-9



7 mm
NKB-7

MARQUARDT
200 mm

RUSKIN
230 mm



3 mm
NKB-1



4 mm
NKB-2



5 mm
NKB-3



3 mm
NKB-4



4 mm
NKB-5



5 mm
NKB-6

SMITH-PETERSON
240 mm

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BONE RONGEURS
HOHLMEISSELZANGEN



MEGA-LUER
400 mm

1/2



SEMB
230 mm

1/2



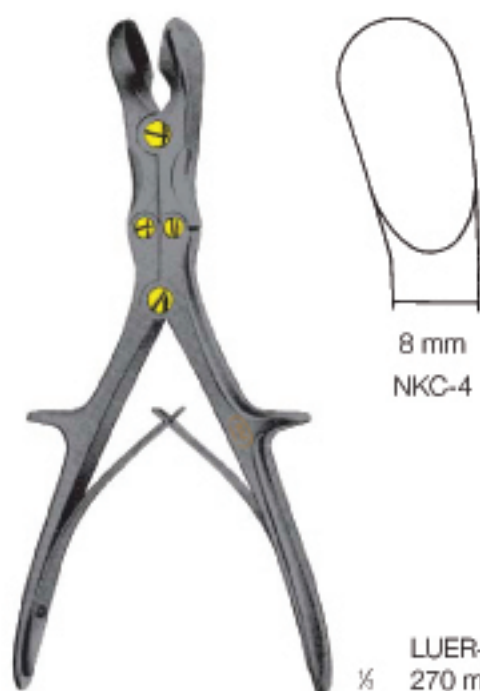
STILLE-RUSKIN
230 mm

1/2

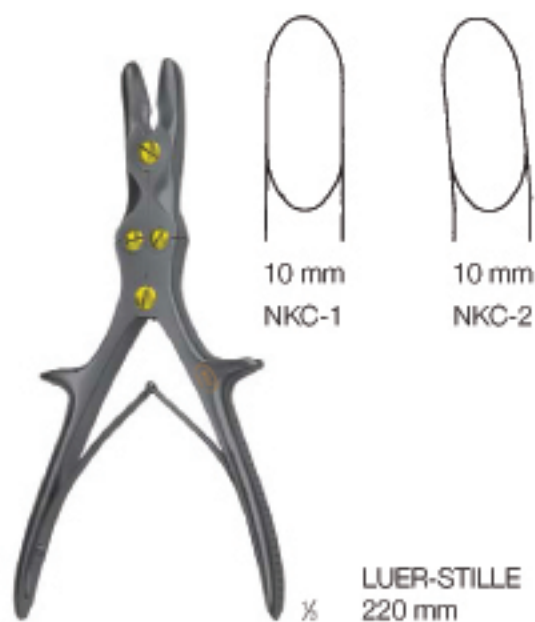


CERAMO®

BONE RONGEURS
HOHLMEISSELZANGEN



LUER-STILLE
270 mm



LUER-STILLE
220 mm



STILLE
230 mm

CERAMO®

BONE RONGEURS
HOHLMEISSELZANGEN



2 mm
NKD-0



3 mm
NKD-6



4 mm
NKD-7



6 mm
NKD-8



8 mm
NKD-9

LEKSELL
230 mm



3 mm
NKF-6



4 mm
NKF-7



6 mm
NKF-8



8 mm
NKF-9

LEKSELL
230 mm

CERAMO®

BONE CUTTERS
KNOCHENZANGEN



BOEHLER
150 mm



RUSKIN-LISTON
190 mm



LISTON





X



X



X

LENGTH LÄNGE	EXTRA DELICATE EXTRA FEIN	DELICATE FEIN	LARGE BREIT
150 mm	LAE-6		
180 mm	LAE-4	LAE-7	LAE-9



X



X

ROUND PLIERS
RUNDZANGE

180 mm
LAH-7