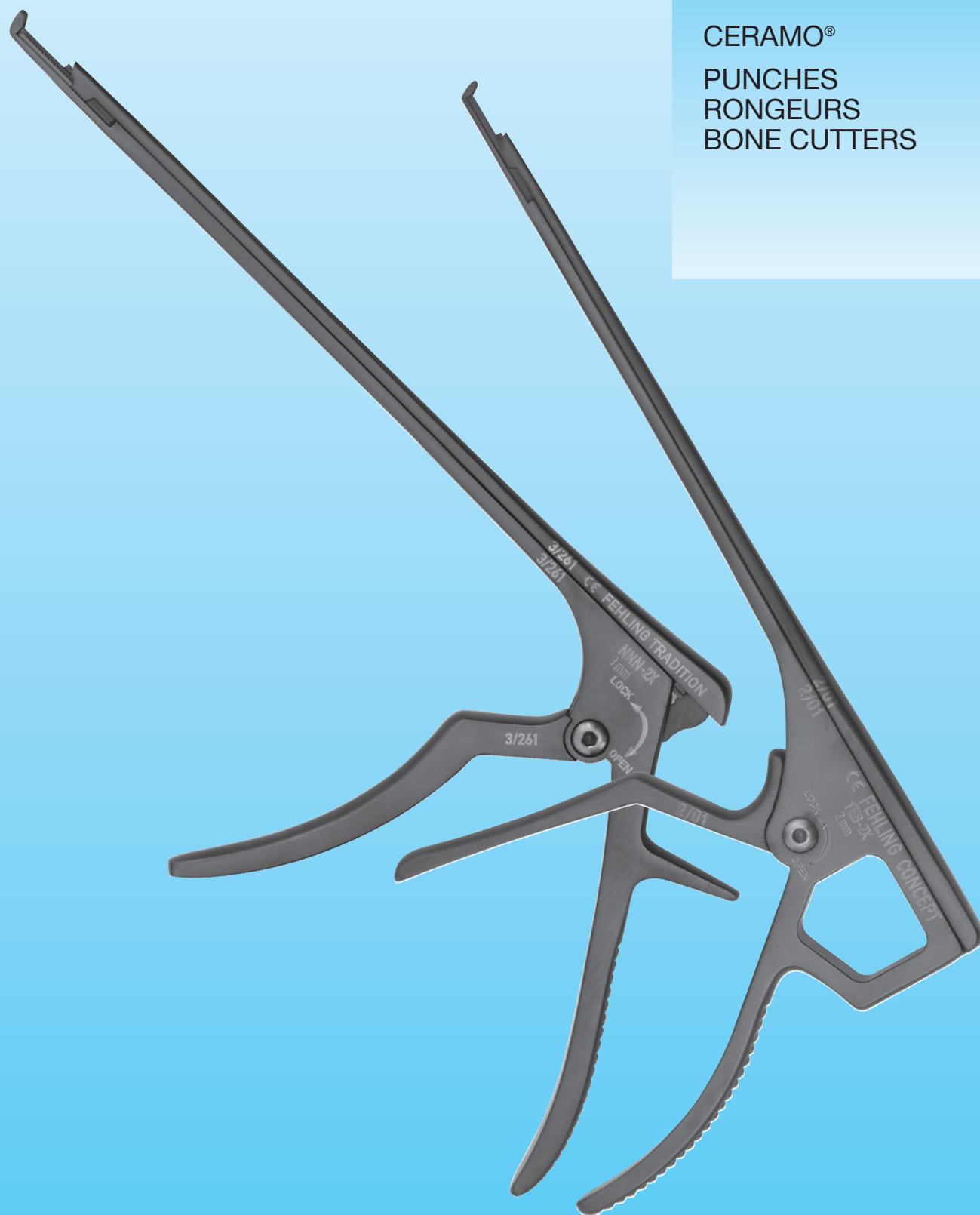


FEHLING...

... THE DIFFERENCE

6

CERAMO®
PUNCHES
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FEHLING
INSTRUMENTS

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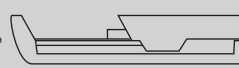
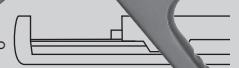
info@fehling-instruments.de

CERAMO® **CONCEPT X**

DETACHABLE*



STANDARD FOOT

FOOT SIZE mm	SHAFT LENGTH mm	40° 	90° 
0,8	180	TEC-0X	TEM-0X
	200	TEA-0X	TEK-0X
1,0	180	TEC-1X	TEM-1X
	200	TEA-1X	TEK-1X
	250	TEE-1X	TEO-1X
	300	TEG-1X	TEQ-1X
	400	TEI-1X	TES-1X
1,5	180	TEC-7X	TEM-7X
	200	TEA-7X	TEK-7X
	250	TEE-7X	TEO-7X
	300	TEG-7X	TEQ-7X
	400	TEI-7X	TES-7X
2,0	180	TEC-2X	TEM-2X
	200	TEA-2X	TEK-2X
	250	TEE-2X	TEO-2X
	300	TEG-2X	TEQ-2X
	400	TEI-2X	TES-2X
2,5	180	TEC-8X	TEM-8X
	200	TEA-8X	TEK-8X
	250	TEE-8X	TEO-8X
	300	TEG-8X	TEQ-8X
	400	TEI-8X	TES-8X
3,0	180	TEC-3X	TEM-3X
	200	TEA-3X	TEK-3X
	250	TEE-3X	TEO-3X
	300	TEG-3X	TEQ-3X
	400	TEI-3X	TES-3X
3,5	180	TEC-9X	TEM-9X
	200	TEA-9X	TEK-9X
	250	TEE-9X	TEO-9X
	300	TEG-9X	TEQ-9X
	400	TEI-9X	TES-9X
4,0	180	TEC-4X	TEM-4X
	200	TEA-4X	TEK-4X
	250	TEE-4X	TEO-4X
	300	TEG-4X	TEQ-4X
	400	TEI-4X	TES-4X
5,0	180	TEC-5X	TEM-5X
	200	TEA-5X	TEK-5X
	250	TEE-5X	TEO-5X
	300	TEG-5X	TEQ-5X
	400	TEI-5X	TES-5X
6,0	180	TEC-6X	TEM-6X
	200	TEA-6X	TEK-6X
	250	TEE-6X	TEO-6X
	300	TEG-6X	TEQ-6X
	400	TEI-6X	TES-6X

All punches with length 300 and 400 mm are calibrated

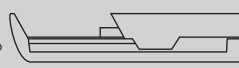
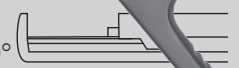
* Screwdriver TXW-9X (see page 6/15) required

CERAMO® **CONCEPT X**

DETACHABLE*



FLAT FOOT

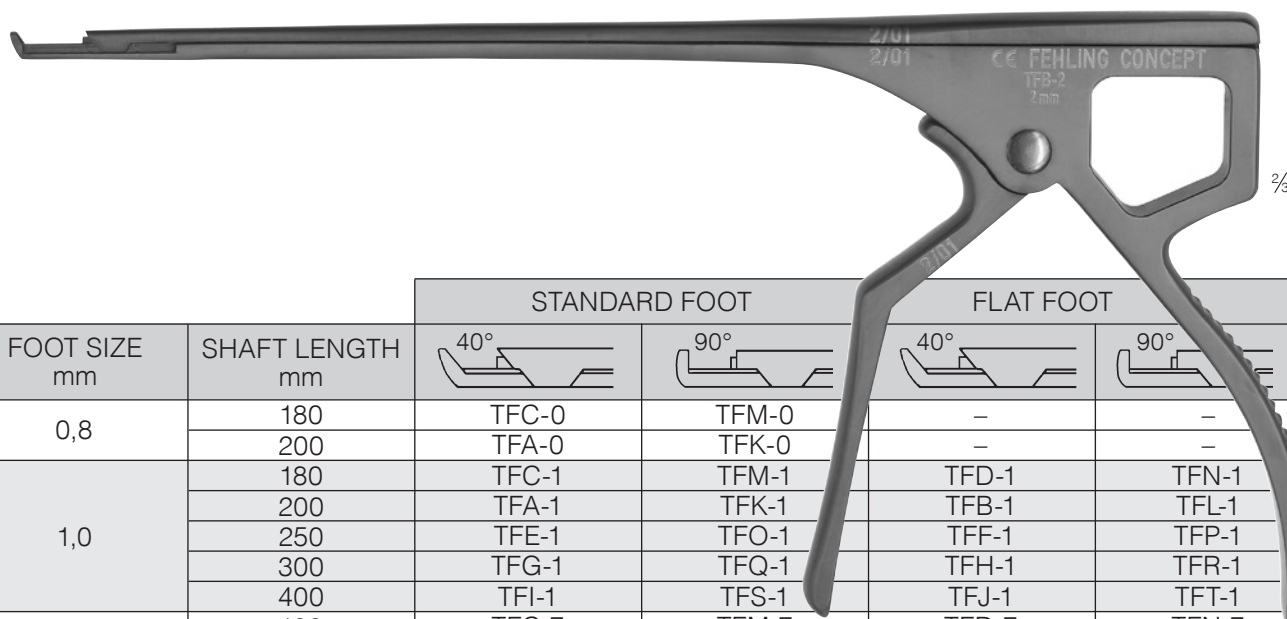
FOOT SIZE mm	SHAFT LENGTH mm	40° 	90° 
1,0	180	TED-1X	TEN-1X
	200	TEB-1X	TEL-1X
	250	TEF-1X	TEP-1X
	300	TEH-1X	TER-1X
	400	TEJ-1X	TET-1X
1,5	180	TED-7X	TEN-7X
	200	TEB-7X	TEL-7X
	250	TEF-7X	TEP-7X
	300	TEH-7X	TER-7X
	400	TEJ-7X	TET-7X
2,0	180	TED-2X	TEN-2X
	200	TEB-2X	TEL-2X
	250	TEF-2X	TEP-2X
	300	TEH-2X	TER-2X
	400	TEJ-2X	TET-2X
2,5	180	TED-8X	TEN-8X
	200	TEB-8X	TEL-8X
	250	TEF-8X	TEP-8X
	300	TEH-8X	TER-8X
	400	TEJ-8X	TET-8X
3,0	180	TED-3X	TEN-3X
	200	TEB-3X	TEL-3X
	250	TEF-3X	TEP-3X
	300	TEH-3X	TER-3X
	400	TEJ-3X	TET-3X
3,5	180	TED-9X	TEN-9X
	200	TEB-0X	TEL-9X
	250	TEF-9X	TEP-9X
	300	TEH-9X	TER-9X
	400	TEJ-9X	TET-9X
4,0	180	TED-4X	TEN-4X
	200	TEB-4X	TEL-4X
	250	TEF-4X	TEP-4X
	300	TEH-4X	TER-4X
	400	TEJ-4X	TET-4X
5,0	180	TED-5X	TEN-5X
	200	TEB-5X	TEL-5X
	250	TEF-5X	TEP-5X
	300	TEH-5X	TER-5X
	400	TEJ-5X	TET-5X
6,0	180	TED-6X	TEN-6X
	200	TEB-6X	TEL-6X
	250	TEF-6X	TEP-6X
	300	TEH-6X	TER-6X
	400	TEJ-6X	TET-6X

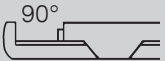
All punches with length 300 and 400 mm are calibrated

* Screwdriver TXW-9X (see page 6/15) required

CERAMO® **CONCEPT APART**

DETACHABLE



FOOT SIZE mm	SHAFT LENGTH mm	STANDARD FOOT		FLAT FOOT	
		40° 	90° 	40° 	90° 
0,8	180	TFC-0	TFM-0	—	—
	200	TFA-0	TFK-0	—	—
1,0	180	TFC-1	TFM-1	TFD-1	TFN-1
	200	TFA-1	TFK-1	TFB-1	TFL-1
	250	TFE-1	TFO-1	TFF-1	TFP-1
	300	TFG-1	TFQ-1	TFH-1	TFR-1
	400	TFI-1	TFS-1	TFJ-1	TFT-1
1,5	180	TFC-7	TFM-7	TFD-7	TFN-7
	200	TFA-7	TFK-7	TFB-7	TFL-7
	250	TFE-7	TFO-7	TFF-7	TFP-7
	300	TFG-7	TFQ-7	TFH-7	TFR-7
	400	TFI-7	TFS-7	TFJ-7	TFT-7
2,0	180	TFC-2	TFM-2	TFD-2	TFN-2
	200	TFA-2	TFK-2	TFB-2	TFL-2
	250	TFE-2	TFO-2	TFF-2	TFP-2
	300	TFG-2	TFQ-2	TFH-2	TFR-2
	400	TFI-2	TFS-2	TFJ-2	TFT-2
2,5	180	TFC-8	TFM-8	TFD-8	TFN-8
	200	TFA-8	TFK-8	TFB-8	TFL-8
	250	TFE-8	TFO-8	TFF-8	TFP-8
	300	TFG-8	TFQ-8	TFH-8	TFR-8
	400	TFI-8	TFS-8	TFJ-8	TFT-8
3,0	180	TFC-3	TFM-3	TFD-3	TFN-3
	200	TFA-3	TFK-3	TFB-3	TFL-3
	250	TFE-3	TFO-3	TFF-3	TFP-3
	300	TFG-3	TFQ-3	TFH-3	TFR-3
	400	TFI-3	TFS-3	TFJ-3	TFT-3
3,5	180	TFC-9	TFM-9	TFD-9	TFN-9
	200	TFA-9	TFK-9	TFB-0	TFL-9
	250	TFE-9	TFO-9	TFF-9	TFP-9
	300	TFG-9	TFQ-9	TFH-9	TFR-9
	400	TFI-9	TFS-9	TFJ-9	TFT-9
4,0	180	TFC-4	TFM-4	TFD-4	TFN-4
	200	TFA-4	TFK-4	TFB-4	TFL-4
	250	TFE-4	TFO-4	TFF-4	TFP-4
	300	TFG-4	TFQ-4	TFH-4	TFR-4
	400	TFI-4	TFS-4	TFJ-4	TFT-4
5,0	180	TFC-5	TFM-5	TFD-5	TFN-5
	200	TFA-5	TFK-5	TFB-5	TFL-5
	250	TFE-5	TFO-5	TFF-5	TFP-5
	300	TFG-5	TFQ-5	TFH-5	TFR-5
	400	TFI-5	TFS-5	TFJ-5	TFT-5
6,0	180	TFC-6	TFM-6	TFD-6	TFN-6
	200	TFA-6	TFK-6	TFB-6	TFL-6
	250	TFE-6	TFO-6	TFF-6	TFP-6
	300	TFG-6	TFQ-6	TFH-6	TFR-6
	400	TFI-6	TFS-6	TFJ-6	TFT-6

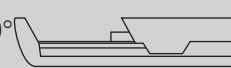
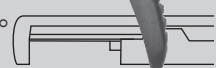
All punches with length 300 and 400 mm are calibrated

CERAMO® **TRADITION X**

DETACHABLE*



STANDARD FOOT

FOOT SIZE mm	SHAFT LENGTH mm	40° 	40° 	90° 
0,8	200	NNB-9X	—	—
1,0	180	NYC-2X	TRD-1X	—
	200	NNN-0X	—	—
	250	NZY-6X	—	—
	300	NYA-0X	—	—
1,5	180	NYC-1X	—	—
	200	NTI-0X	—	—
2,0	180	NNG-1X	TRD-2X	—
	200	NNY-0X	NNZ-8X	NVB-7X
	250	NNG-7X	—	—
	300	NNG-8X	—	—
	400	NNG-9X	—	—
2,5	200	NNN-1X	—	NNK-2X
	250	NNL-2X	—	—
	300	NNE-2X	NNF-6X	NNE-6X
	400	NNY-2X	NNX-5X	NNV-5X
3,0	180	NNL-7X	TRB-8X	—
	200	NNN-2X	NNN-7X	NNK-3X
	250	NNL-3X	NTI-1X	—
	300	NNE-3X	NNF-7X	NNE-7X
	400	NNY-3X	NNX-6X	NNV-6X
3,5	200	NNN-3X	TNC-3X	TNC-5X
4,0	180	NNL-8X	TRB-9X	—
	200	NNN-4X	NNN-8X	NNK-4X
	250	NNL-4X	—	—
	300	NNE-4X	NNF-8X	NNE-8X
	400	NNY-4X	NNX-7X	NNV-7X
5,0	180	NNL-9X	TRC-0X	—
	200	NNN-5X	NNN-9X	NNK-5X
	250	NNL-5X	—	—
	300	NNE-5X	NNF-9X	NNE-9X
	400	NNY-5X	NNX-8X	NNV-8X
6,0	180	NVC-0X	—	—
	200	NNN-6X	—	—
	250	NNQ-9X	—	—
	300	NNE-0X	NNG-0X	NNH-0X
	400	NNY-6X	NNX-9X	NNV-9X

All punches with length 300 and 400 mm are calibrated

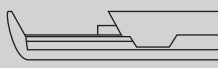
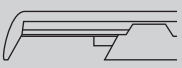
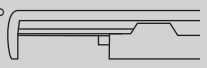
* Screwdriver TXW-9X (see page 6/15) required

CERAMO® **TRADITION X**

DETACHABLE*



FLAT FOOT

FOOT SIZE mm	SHAFT LENGTH mm	40° 	40° 	90° 
1,0	180	NVU-0X	TRB-6X	TRB-5X
	200	NZY-8X	—	—
	250	NZY-9X	—	—
	300	NYB-0X	—	—
	400	—	—	NTI-2X
2,0	180	NVF-7X	TRB-7X	—
	200	NNR-0X	NTH-7X	—
	250	NNL-1X	—	—
	300	NNX-0X	NVE-8X	—
	400	NVF-9X	—	—
2,5	180	NVF-2X	—	—
	200	NNO-1X	NNO-4X	NNJ-9X
	250	NNK-8X	—	—
	300	NNW-2X	NNT-6X	—
	400	NNQ-0X	—	NND-6X
3,0	180	NVF-3X	—	—
	200	NNO-2X	NNO-5X	NNK-0X
	250	NNL-6X	—	—
	300	NNW-3X	NNT-7X	—
	400	NNQ-1X	—	NND-7X
3,5	180	NYC-5X	—	—
	200	NNO-8X	—	—
4,0	180	NVF-4X	—	—
	200	NNO-3X	NNO-6X	NNK-1X
	250	NNK-9X	—	—
	300	NNW-4X	NNT-8X	—
	400	NNQ-2X	—	NND-8X
5,0	180	NVF-8X	—	—
	200	NNO-7X	NNO-9X	—
	250	NNL-0X	—	—
	300	NNW-5X	NNT-9X	—
	400	NNQ-3X	—	NND-9X
6,0	200	NNO-0X	—	—

All punches with length 300 and 400 mm are calibrated

* Screwdriver TXW-9X (see page 6/15) required

CERAMO® **TURNUS***
ROTATABLE SHAFT

HANDLES



CONCEPT

TGZ-0



TRADITION

TGZ-6A

*WARNING: Please use CONCEPT TURNUS punches for cervical and transsphenoidal surgery only.

CERAMO® *TURNUS**

ROTATABLE SHAFTS



1/2 a = 14 mm

-a- reduced to 12 mm in CONCEPT handle

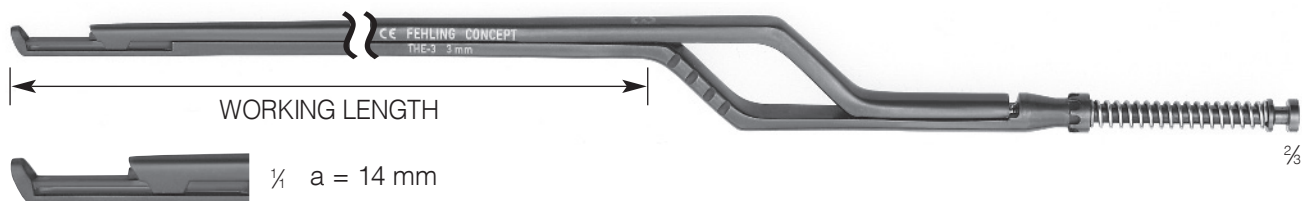
FOOT SIZE mm	SHAFT LENGTH mm	STANDARD FOOT		FLAT FOOT	
		40° 	90° 	40° 	90°
0,8	180	TGC-0	TGM-0	–	–
	200	TGA-0	TGK-0	–	–
1,0	180	TGC-1	TGM-1	TGD-1	TGN-1
	200	TGA-1	TGK-1	TGB-1	TGL-1
	250	TGE-1	TGO-1	TGF-1	TGP-1
	300	TGG-1	TGQ-1	TGH-1	TGR-1
	400	TGI-1	TGS-1	TGJ-1	TGT-1
1,5	180	TGC-7	TGM-7	TGD-7	TGN-7
	200	TGA-7	TGK-7	TGB-7	TGL-7
	250	TGE-7	TGO-7	TGF-7	TGP-7
	300	TGG-7	TGQ-7	TGH-7	TGR-7
	400	TGI-7	TGS-7	TGJ-7	TGT-7
2,0	180	TGC-2	TGM-2	TGD-2	TGN-2
	200	TGA-2	TGK-2	TGB-2	TGL-2
	250	TGE-2	TGO-2	TGF-2	TGP-2
	300	TGG-2	TGQ-2	TGH-2	TGR-2
	400	TGI-2	TGS-2	TGJ-2	TGT-2
2,5	180	TGC-8	TGM-8	TGD-8	TGN-8
	200	TGA-8	TGK-8	TGB-8	TGL-8
	250	TGE-8	TGO-8	TGF-8	TGP-8
	300	TGG-8	TGQ-8	TGH-8	TGR-8
	400	TGI-8	TGS-8	TGJ-8	TGT-8
3,0	180	TGC-3	TGM-3	TGD-3	TGN-3
	200	TGA-3	TGK-3	TGB-3	TGL-3
	250	TGE-3	TGO-3	TGF-3	TGP-3
	300	TGG-3	TGQ-3	TGH-3	TGR-3
	400	TGI-3	TGS-3	TGJ-3	TGT-3
3,5	180	TGC-9	TGM-9	–	–
	200	TGA-9	TGK-9	–	–
	250	TGE-9	TGO-9	–	–
	300	TGG-9	TGQ-9	–	–
	400	TGI-9	TGS-9	–	–
4,0	180	TGC-4	TGM-4	TGD-4	TGN-4
	200	TGA-4	TGK-4	TGB-4	TGL-4
	250	TGE-4	TGO-4	TGF-4	TGP-4
	300	TGG-4	TGQ-4	TGH-4	TGR-4
	400	TGI-4	TGS-4	TGJ-4	TGT-4
5,0	180	TGC-5	TGM-5	TGD-5	TGN-5
	200	TGA-5	TGK-5	TGB-5	TGL-5
	250	TGE-5	TGO-5	TGF-5	TGP-5
	300	TGG-5	TGQ-5	TGH-5	TGR-5
	400	TGI-5	TGS-5	TGJ-5	TGT-5
6,0	180	TGC-6	TGM-6	TGD-6	TGN-6
	200	TGA-6	TGK-6	TGB-6	TGL-6
	250	TGE-6	TGO-6	TGF-6	TGP-6
	300	TGG-6	TGQ-6	TGH-6	TGR-6
	400	TGI-6	TGS-6	TGJ-6	TGT-6

All shafts with length 300 and 400 mm are calibrated

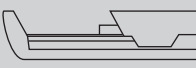
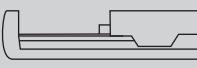
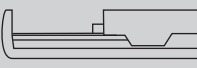
*WARNING: Please use CONCEPT TURNUS punches for cervical and transsphenoidal surgery only.

CERAMO® *TURNUS**

ROTATABLE SHAFTS



-a- reduced to 12 mm in CONCEPT handle

FOOT SIZE mm	WORKING LENGTH mm	STANDARD FOOT		FLAT FOOT	
		40° 	90° 	40° 	90° 
1,0	110	THA-1	THK-1	THB-1	THL-1
	150	THC-1	THM-1	THD-1	THN-1
	180	THE-1	THO-1	THF-1	THP-1
1,5	110	THA-7	THK-7	THB-7	THL-7
	150	THC-7	THM-7	THD-7	THN-7
	180	THE-7	THO-7	THF-7	THP-7
2,0	110	THA-2	THK-2	THB-2	THL-2
	150	THC-2	THM-2	THD-2	THN-2
	180	THE-2	THO-2	THF-2	THP-2
2,5	110	THA-8	THK-8	THB-8	THL-8
	150	THC-8	THM-8	THD-8	THN-8
	180	THE-8	THO-8	THF-8	THP-8
3,0	110	THA-3	THK-3	THB-3	THL-3
	150	THC-3	THM-3	THD-3	THN-3
	180	THE-3	THO-3	THF-3	THP-3
4,0	110	THA-4	THK-4	THB-4	THL-4
	150	THC-4	THM-4	THD-4	THN-4
	180	THE-4	THO-4	THF-4	THP-4
5,0	110	THA-5	THK-5	THB-5	THL-5
	150	THC-5	THM-5	THD-5	THN-5
	180	THE-5	THO-5	THF-5	THP-5
6,0	110	THA-6	THK-6	THB-6	THL-6
	150	THC-6	THM-6	THD-6	THN-6
	180	THE-6	THO-6	THF-6	THP-6

*WARNING: Please use CONCEPT TURNUS punches for cervical and transsphenoidal surgery only.



SHAFT Ø mm	SHAFT LENGTH mm	40° 
3,0	360	TGW-1
3,5	360	TGW-0

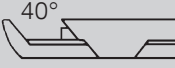
FOR ENDOSCOPY (NO EJECTOR)

CERAMO® **APART**

DETACHABLE



STANDARD FOOT

FOOT SIZE mm	SHAFT LENGTH mm			
0,8	200	NNB-9A	—	—
1,0	200	NNN-0A	—	—
	250	NZY-6A	—	—
	180	NNG-1A	—	—
2,0	200	NNY-0A	NNZ-8A	NVB-7A
	250	NNG-7A	—	—
	300	NNG-8A	—	—
	400	NNG-9A	—	—
2,5	200	NNN-1A	—	NNK-2A
	250	NNL-2A	—	—
	300	NNE-2A	NNF-6A	NNE-6A
	400	NNY-2A	NNX-5A	NNV-5A
	180	NNL-7A	—	—
3,0	200	NNN-2A	NNN-7A	NNK-3A
	250	NNL-3A	—	—
	300	NNE-3A	NNF-7A	NNE-7A
	400	NNY-3A	NNX-6A	NNV-6A
3,5	200	NNN-3A	—	—
	180	NNL-8A	—	—
4,0	200	NNN-4A	NNN-8A	NNK-4A
	250	NNL-4A	—	—
	300	NNE-4A	NNF-8A	NNE-8A
	400	NNY-4A	NNX-7A	NNV-7A
	180	NNL-9A	—	—
5,0	200	NNN-5A	NNN-9A	NNK-5A
	250	NNL-5A	—	—
	300	NNE-5A	NNF-9A	NNE-9A
	400	NNY-5A	NNX-8A	NNV-8A
	180	NVC-0A	—	—
6,0	200	NNN-6A	—	—
	250	NNQ-9A	—	—
	300	NNE-0A	NNG-0A	NNH-0A
	400	NNY-6A	NNX-9A	NNV-9A

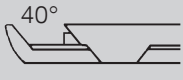
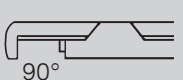
CERAMO® **APART**

DETACHABLE



FLAT FOOT

$\frac{2}{3}$

FOOT SIZE mm	SHAFT LENGTH mm			
1,0	180	NVU-0A	—	—
	200	NZY-8A	—	—
	250	NZY-9A	—	—
2,0	200	NNR-0A	NTH-7A	—
	250	NNL-1A	—	—
	300	NNX-0A	—	—
	400	NVF-9A	—	—
2,5	180	NVF-2A	—	—
	200	NNO-1A	NNO-4A	NNJ-9A
	250	NNK-8A	—	—
	300	NNW-2A	NNT-6A	NNW-6A
	400	NNQ-0A	NNQ-5A	NND-6A
3,0	180	NVF-3A	—	—
	200	NNO-2A	NNO-5A	NNK-0A
	250	NNL-6A	—	—
	300	NNW-3A	NNT-7A	NNW-7A
	400	NNQ-1A	NNQ-6A	NND-7A
4,0	180	NVF-4A	—	—
	200	NNO-3A	NNO-6A	—
	250	NNK-9A	—	NNK-1A
	300	NNW-4A	NNT-8A	—
	400	NNQ-2A	NNQ-7A	NNW-8A
5,0	200	NNO-7A	NNO-9A	NND-8A
	250	NNL-0A	—	—
	300	NNW-5A	NNT-9A	NNW-9A
	400	NNQ-3A	NNQ-8A	NND-9A
6,0	200	NNO-0A	—	—

CERAMO®



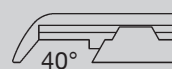
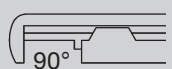
STANDARD FOOT

FOOT SIZE mm	SHAFT LENGTH mm	40°	40°	90°
0,8	200	NNB-9S	—	—
1,0	200	NNN-0S	—	TNC-6S
	250	NZY-6S	—	—
2,0	180	NNG-1S	—	NZT-9S
	200	NNY-0S	NNZ-8S	NVB-7S
	250	NNG-7S	—	—
	300	NNG-8S	—	—
	400	—	—	—
2,5	200	NNN-1S	—	NNK-2S
	250	NNL-2S	—	—
	300	—	NNF-6S	—
	400	NNY-2S	—	—
3,0	180	NNL-7S	—	—
	200	NNN-2S	NNN-7S	NNK-3S
	250	NNL-3S	—	—
	300	NNE-3S	NNF-7S	NNE-7S
	400	NNY-3S	—	—
3,5	200	NNN-3S	TNC-3S	TNC-5S
4,0	180	NNL-8S	—	NZK-4S
	200	NNN-4S	NNN-8S	NNK-4S
	250	NNL-4S	—	—
	300	NNE-4S	—	NNE-8S
	400	NNY-4S	—	—
5,0	180	NNL-9S	—	—
	200	NNN-5S	NNN-9S	NNK-5S
	250	NNL-5S	—	—
	300	NNE-5S	—	—
	400	NNY-5S	—	—
6,0	180	NVC-0S	—	—
	200	NNN-6S	—	—
	250	NNQ-9S	—	—
	300	NNE-0S	—	—
	400	NNY-6S	—	—

CERAMO®

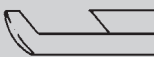
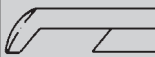
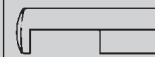
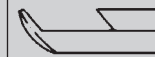


FLAT FOOT

FOOT SIZE mm	SHAFT LENGTH mm				
1,0	180	NVU-0S	—	—	—
	200	NZY-8S	NZY-8F	—	—
	250	NZY-9S	NZY-9F	—	—
2,0	200	NNR-0S	NNR-0F	NTH-7S	—
	250	NNL-1S	NNL-1F	—	—
	300	NNX-0S	—	—	—
	400	NVF-9S	—	—	—
2,5	180	NVF-2S	—	—	—
	200	NNO-1S	NNO-1F	NNO-4S	—
	250	NNK-8S	NNK-8F	—	—
	300	NNW-2S	—	—	—
	400	NNQ-0S	—	—	—
3,0	180	NVF-3S	—	—	—
	200	NNO-2S	NNO-2F	NNO-5S	NNK-0S
	250	NNL-6S	NNL-6F	—	—
	300	NNW-3S	—	—	—
	400	NNQ-1S	—	—	—
4,0	180	NVF-4S	—	—	—
	200	NNO-3S	NNO-3F	NNO-6S	NNK-1S
	250	NNK-9S	NNK-9F	—	—
	300	NNW-4S	—	—	—
	400	NNQ-2S	—	—	—
5,0	200	NNO-7S	—	—	—
	250	NNL-0S	—	—	—
	300	NNW-5S	—	—	—
	400	NNQ-3S	—	NNQ-8S	—
6,0	200	NNO-0S	—	—	—

CERAMO® *KERRISON*



FOOT SIZE mm	SHAFT LENGTH mm	STANDARD FOOT			FLAT FOOT	
		40° 	40° 	90° 	40° 	40° 
0,8	200	NNA-0S	–	–	–	–
1,0	200	NNA-1S	NNB-1S	NNC-1S	NNS-1S	NNT-1S
	250	–	–	–	NNS-0S	–
	300	NNH-1S	NNH-5S	–	NNW-0S	–
2,0	200	NNA-2S	NNB-2S	NNC-2S	NNS-2S	NNT-2S
	250	–	–	–	NNS-6S	–
	300	NNH-2S	NNH-6S	–	–	–
	400	–	NNI-4S	–	–	–
3,0	200	NNA-3S	–	NNC-3S	NNS-3S	NNT-3S
	250	–	–	–	NNS-7S	–
4,0	200	NNA-4S	–	NNC-4S	NNS-4S	NNT-4S
	250	–	–	–	NNS-8S	–
5,0	200	NNA-5S	–	NNC-5S	NNS-5S	–
	250	–	–	–	NNS-9S	–
6,0	200	NZD-7S	–	–	–	–

CERAMO® **GENTLE**

DETACHABLE*
BIG HANDLE AND STROKE



SILICONE HANDLE
soft, non-slip surface

FOOT SIZE mm	SHAFT LENGTH mm	STANDARD FOOT		FLAT FOOT
		40° GENTLE	40° GENTLE-“SINGER”	40° GENTLE
1,0	200	TIA-1	—	TIB-1
	250	TIC-1	—	TID-1
2,0	200	TIA-2	TIG-2	TIB-2
	250	TIC-2	—	TID-2
	300	TIE-2	—	TIF-2
3,0	200	TIA-3	TIG-3	TIB-3
	250	TIC-3	TIH-3	TID-3
	300	TIE-3	TIJ-3	TIF-3
4,0	200	TIA-4	TIG-4	TIB-4
	250	TIC-4	TIH-4	TID-4
	300	TIE-4	TIJ-4	TIF-4
5,0	200	TIA-5	TIG-5	TIB-5
	250	TIC-5	TIH-5	TID-5
	300	TIE-5	TIJ-5	TIF-5
6,0	200	TIA-6	TIG-6	TIB-6
	250	TIC-6	TIH-6	TID-6
	300	TIE-6	TIJ-6	TIF-6



SCREWDRIVER
STERILISABLE
TXW-9X

All punches with length 300 and 400 mm are calibrated

* Screwdriver TXW-9X required

CERAMO®

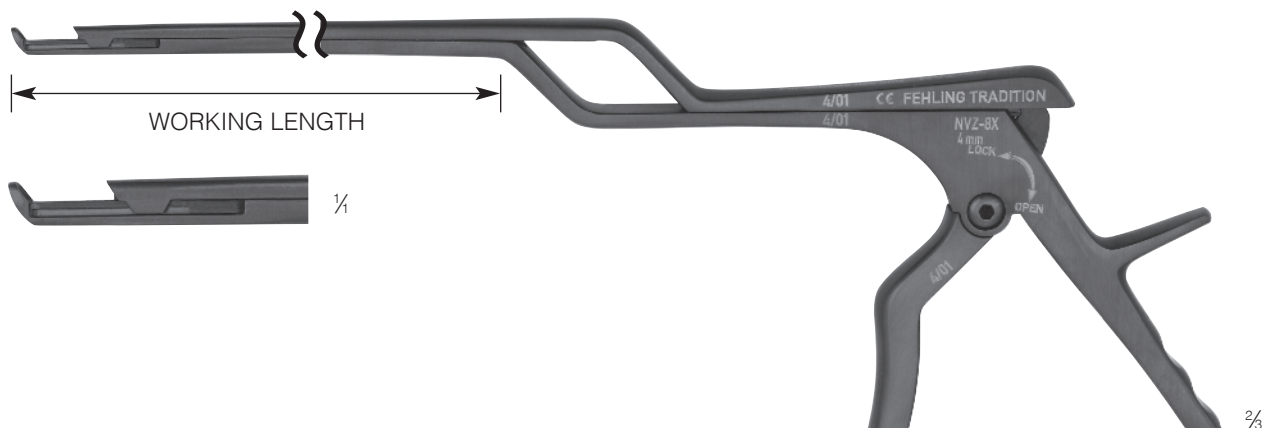
BIG HANDLE AND STROKE



FOOT SIZE mm	SHAFT LENGTH mm	STANDARD FOOT		FLAT FOOT
		40°	40°	40°
2,0	200	NZL-0S	—	—
2,5	250	NZK-8S	—	—
3,0	200	NZA-2S	—	—
	250	NZK-9S	—	NZK-7S
4,0	200	NNM-1S	NNM-5S	NZA-8S
	250	NNM-0S	—	—
	300	NNY-7S	—	—
5,0	200	NNM-2S	—	NZA-9S
	250	NNM-9S	—	—
	300	NNY-8S	—	—
6,0	200	NNM-3S	—	—
	250	NNM-4S	—	—
	300	NNY-9S	—	—

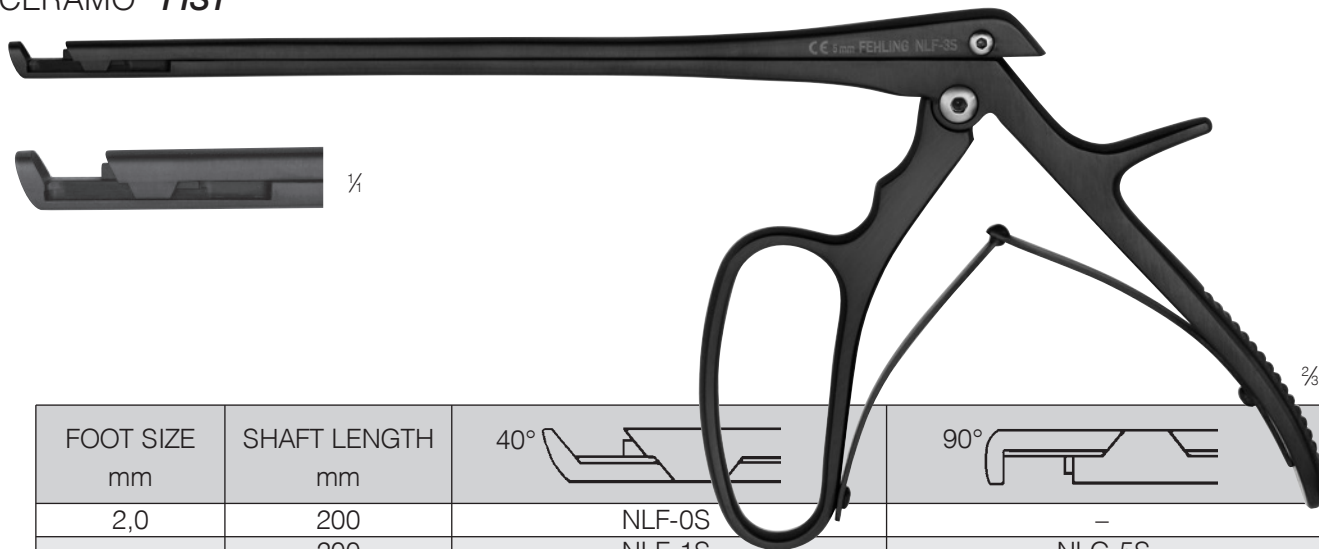
CERAMO® *TRADITION X*

DETACHABLE*



FOOT SIZE mm	STANDARD FOOT 40° 			FLAT FOOT 40° 			
	WORKING LENGTH			WORKING LENGTH			
	110 mm	140 mm	180 mm	140 mm	160 mm	180 mm	200 mm
1,0	NUZ-9X	NVZ-1X	NVZ-0X	NVZ-6X	–	NVZ-3X	NVD-0X
2,0	NNU-0X	NVZ-2X	NVA-5X	NVZ-7X	NUZ-5X	NVZ-4X	NVD-1X
3,0	NNU-1X	NNU-4X	NNU-7X	NNX-4X	NUZ-6X	NVA-8X	NVD-6X
4,0	NNU-2X	NNU-5X	NNU-8X	NVZ-8X	NUZ-7X	NVZ-5X	–
5,0	NNU-3X	NNU-6X	NNU-9X	NVZ-9X	–	NVA-9X	–

CERAMO® *FIST*

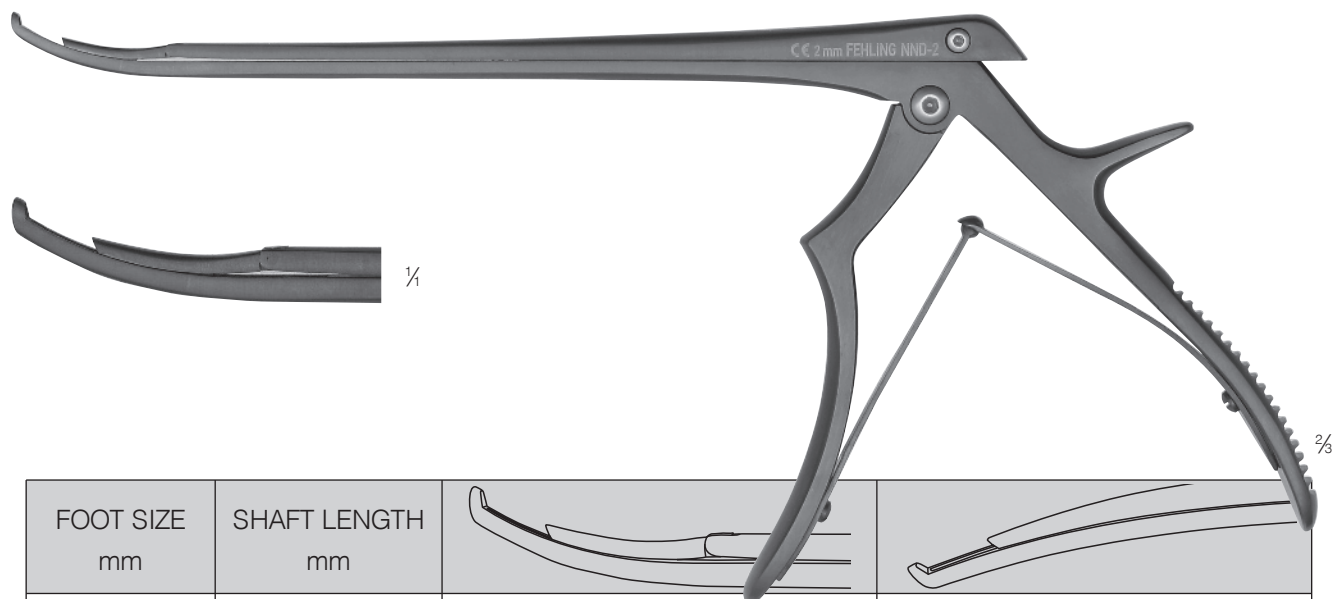


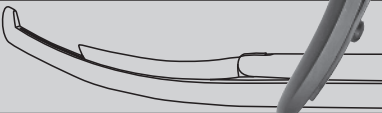
FOOT SIZE mm	SHAFT LENGTH mm	40° 	90° 
2,0	200	NLF-0S	–
3,0	200	NLF-1S	NLG-5S
	300	NLF-5S	NLH-1S
	400	NLG-1S	NLH-5S
4,0	200	NLF-2S	NLG-6S
	300	NLF-6S	NLH-2S
	400	NLG-2S	NLH-6S
5,0	200	NLF-3S	NLG-7S
	300	NLF-7S	NLH-3S
	400	NLG-3S	NLH-7S
6,0	200	NLF-4S	NLG-8S
	300	NLF-8S	NLH-4S
	400	NLG-4S	NLH-8S

All punches with length 300 and 400 mm are calibrated

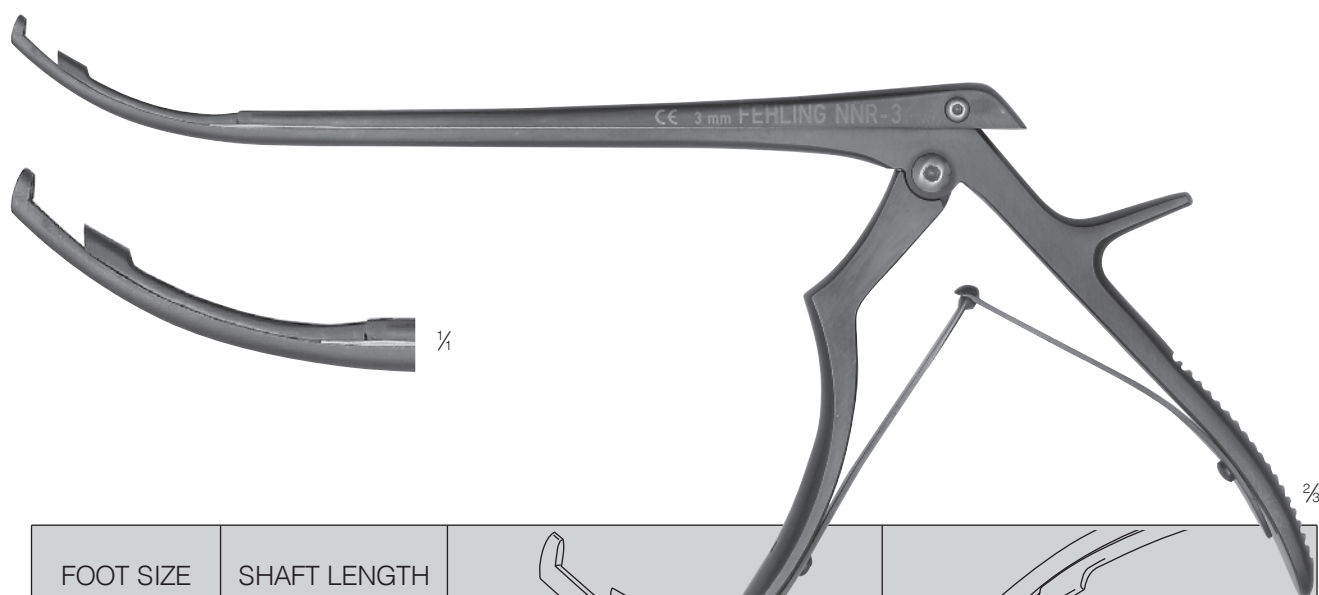
* Screwdriver TXW-9X (see page 6/15) required

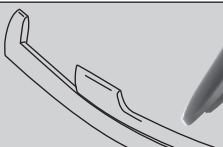
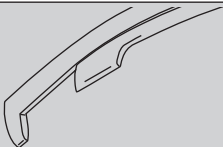
CERAMO® **SUBLAMINAR**



FOOT SIZE mm	SHAFT LENGTH mm		
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

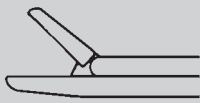
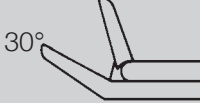
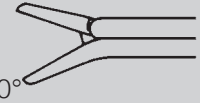
CERAMO® **KERRISON**



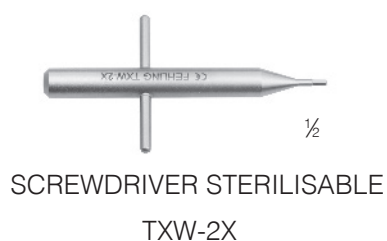
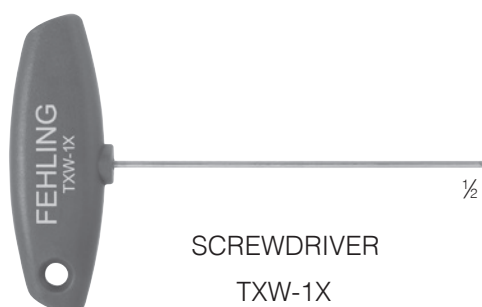
FOOT SIZE mm	SHAFT LENGTH mm		
2,0	200	NNR-9	—
3,0	200	NNR-3	NNR-6
4,0	200	NNR-4	NNR-7
	250	NNR-1	NNR-2
5,0	200	NNR-5	NNR-8

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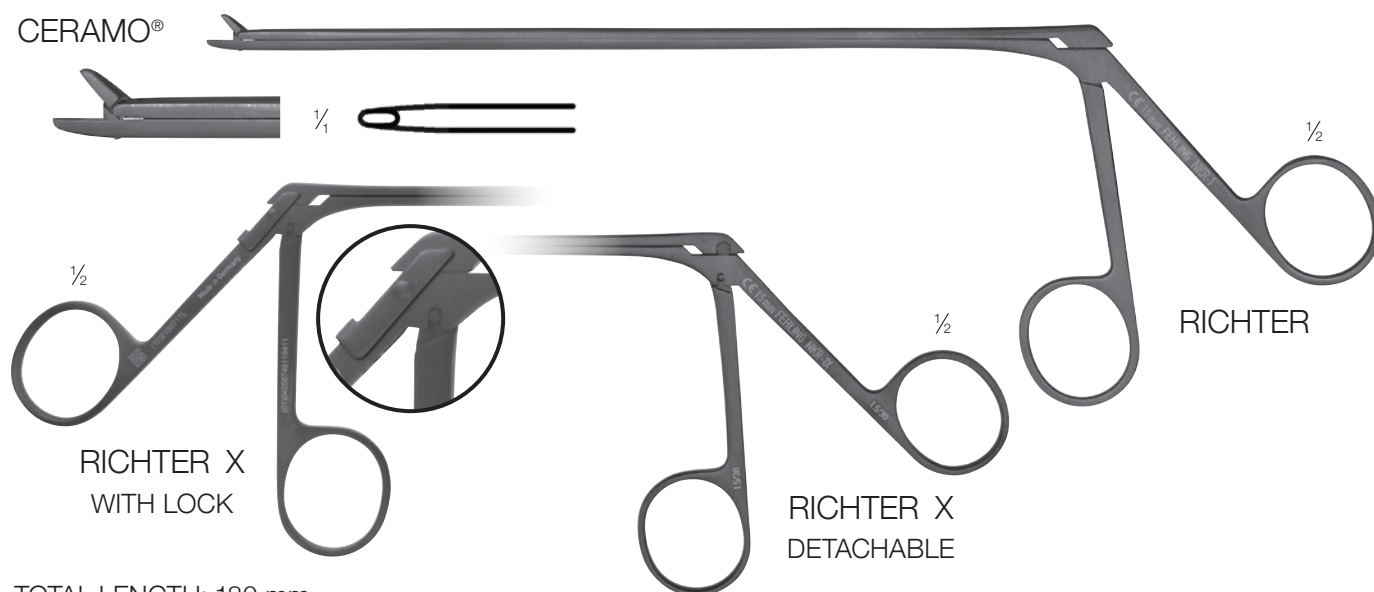


JAW WIDTH mm	LENGTH mm						
		GRUMME	GRUMME X	GRUMME	GRUMME X	GRUMME	GRUMME X
2,0	120	NLO-2	NLO-2X	NLO-6	NLO-6X	NLN-6	NLN-6X
	160	NLT-2	NLT-2X	NLT-6	NLT-6X	NLV-2	NLV-2X
	180	NLU-2	NLU-2X	NLU-6	NLU-6X	NLV-6	NLV-6X
	200	NLX-2	NLX-2X	NLX-6	NLX-6X	—	—
	250	NLW-2	NLW-2X	—	NMJ-8X	—	—
	300	—	—	NLW-7	—	—	—
3,0	120	NLO-3	NLO-3X	NLO-7	NLO-7X	NLN-7	NLN-7X
	160	NLT-3	NLT-3X	NLT-7	NLT-7X	NLV-3	NLV-3X
	180	NLU-3	NLU-3X	NLU-7	NLU-7X	NLV-7	NLV-7X
	200	NLX-3	NLX-3X	NLX-7	—	—	—
	250	NLW-3	NLW-3X	—	NMJ-9X	—	—
4,0	120	NLO-4	NLO-4X	NLO-8	NLO-8X	NLN-8	NLN-8X
	160	NLT-4	NLT-4X	NLT-8	NLT-8X	NLV-4	NLV-4X
	180	NLU-4	NLU-4X	NLU-8	NLU-8X	NLV-8	NLV-8X
	200	NLX-4	NLX-4X	NLX-8	NLX-8X	—	—
	250	NLW-4	NLW-4X	—	NMK-0X	—	—
5,0	120	NLO-5	NLO-5X	NLO-9	NLO-9X	NLN-9	NLN-9X
	160	NLT-5	NLT-5X	NLZ-9	NLZ-9X	NLV-5	NLV-5X
	180	NLU-5	NLU-5X	NLU-9	NLU-9X	NLV-9	NLV-9X
	200	NLX-5	NLX-5X	NLX-9	NLX-9X	—	—
	250	NLW-5	NLW-5X	NLW-0	NLW-0X	—	—
6,0	120	NLO-0	NLO-0X	—	—	—	—
	250	NLW-6	NLW-6X	—	—	—	—

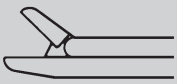
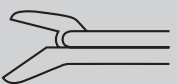
ACCESSORIES FOR GRUMME X RONGEURS



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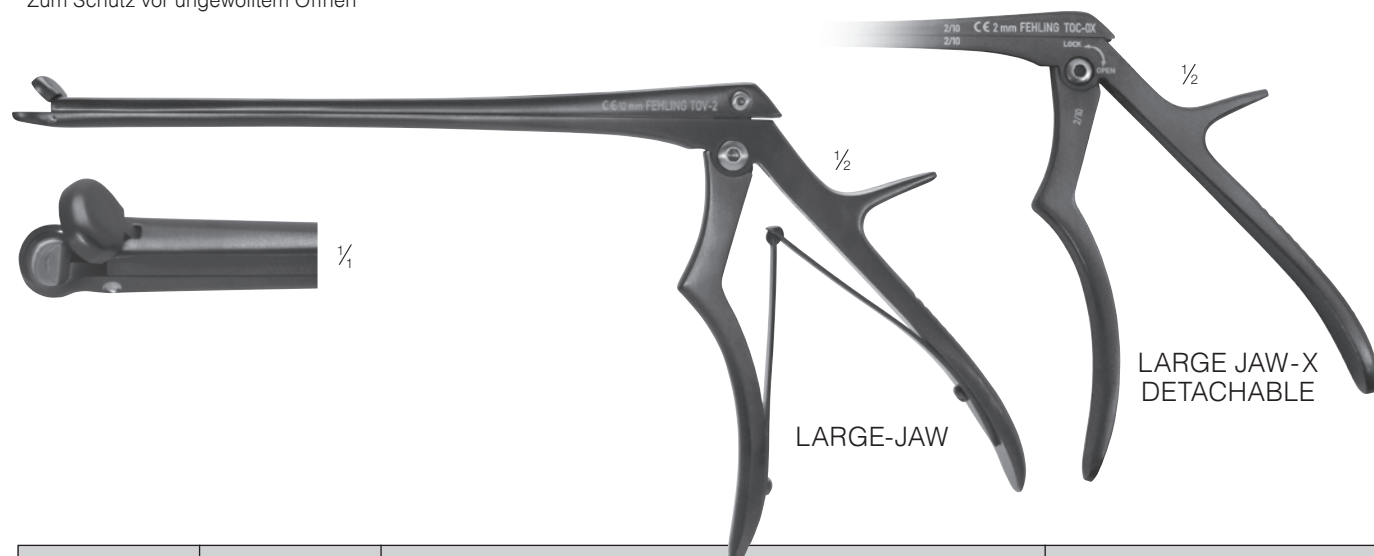


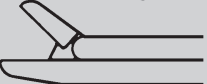
TOTAL LENGTH: 180 mm

JAW WIDTH mm				30° 			30° 		
	RICHTER	RICHTER X	X with Lock*	RICHTER	RICHTER X	X with Lock*	RICHTER	RICHTER X	X with Lock*
1,0	NKR-2	NKR-2X	NKR-2Y	NKR-4	NKR-4X	NKR-3Y	NKR-5	NKR-5X	NKR-5Y
1,5	NKR-1	NKR-1X	NKR-1Y	NKR-3	NKR-3X	NKR-4Y	NKR-6	NKR-6X	NKR-6Y

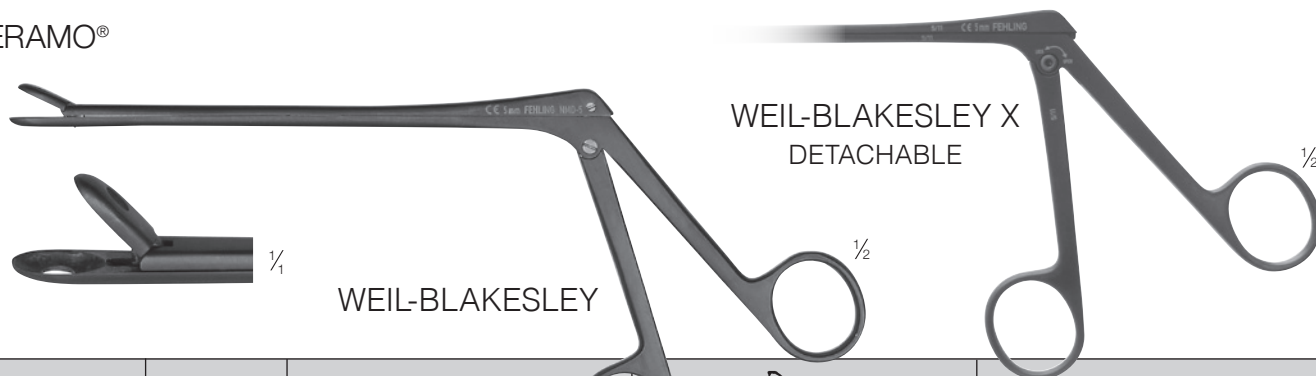
*For protection against unintentional opening

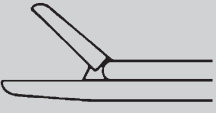
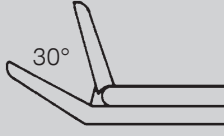
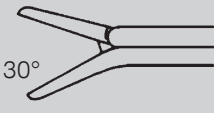
*Zum Schutz vor ungewolltem Öffnen

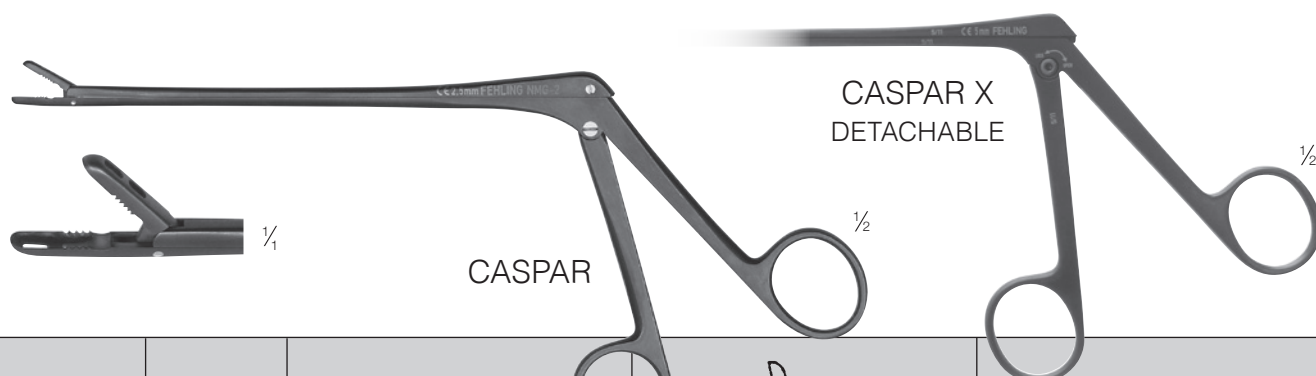


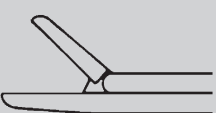
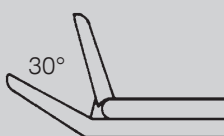
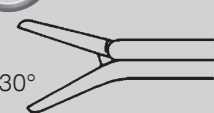
JAW WIDTH mm	LENGTH mm			30° 
		LARGE JAW	LARGE JAW-X	LARGE JAW-X
10	200	TOV-1	TOV-1X	TOV-3X
12	200	TOV-2	TOV-2X	TOV-4X

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JAW WIDTH mm	LENGTH mm						
		WEIL-BLAKESLEY	WEIL-BLAKESLEY X	WEIL-BLAKESLEY	WEIL-BLAKESLEY X	WEIL-BLAKESLEY	WEIL-BLAKESLEY X
2,5	130	NMA-2	NMA-2X	NMB-2	NMB-2X	NMC-2	NMC-2X
	160	NMD-2	NMD-2X	NME-2	NME-2X	NMF-2	NMF-2X
3,0	130	NMA-3	NMA-3X	NMB-3	NMB-3X	NMC-3	NMC-3X
	160	NMD-3	NMD-3X	NME-3	NME-3X	NMF-3	NMF-3X
4,0	130	NMA-4	NMA-4X	NMB-4	NMB-4X	NMC-4	NMC-4X
	160	NMD-4	NMD-4X	NME-4	NME-4X	NMF-4	NMF-4X
5,0	130	NMA-5	NMA-5X	NMB-5	NMB-5X	NMC-5	NMC-5X
	160	NMD-5	NMD-5X	NME-5	NME-5X	NMF-5	NMF-5X
6,0	130	NMA-6	NMA-6X	NMB-6	NMB-6X	NMC-6	NMC-6X
	160	NMD-6	NMD-6X	NME-6	NME-6X	NMF-6	NMF-6X



JAW WIDTH mm	LENGTH mm						
		CASPAR	CASPAR X	CASPAR	CASPAR X	CASPAR	CASPAR X
2,0	160	NMG-1	NMG-1X	NMH-1	NMH-1X	NMI-1	NMI-1X
	180	NMG-0	NMG-0X	NMH-0	NMH-0X	NMI-0	NMI-0X
2,5	160	NMG-2	NMG-2X	NMH-2	NMH-2X	NMI-2	NMI-2X
	180	NMG-6	NMG-6X	NMH-6	NMH-6X	NMI-6	NMI-6X
3,0	160	NMG-3	NMG-3X	NMH-3	NMH-3X	NMI-3	NMI-3X
	180	NMG-7	NMG-7X	NMH-7	NMH-7X	NMI-7	NMI-7X
4,0	160	NMG-4	NMG-4X	NMH-4	NMH-4X	NMI-4	NMI-4X
	180	NMG-8	NMG-8X	NMH-8	NMH-8X	NMI-8	NMI-8X
5,0	160	NMG-5	NMG-5X	NMH-5	NMH-5X	NMI-5	NMI-5X
	180	NMG-9	NMG-9X	NMH-9	NMH-9X	NMI-9	NMI-9X

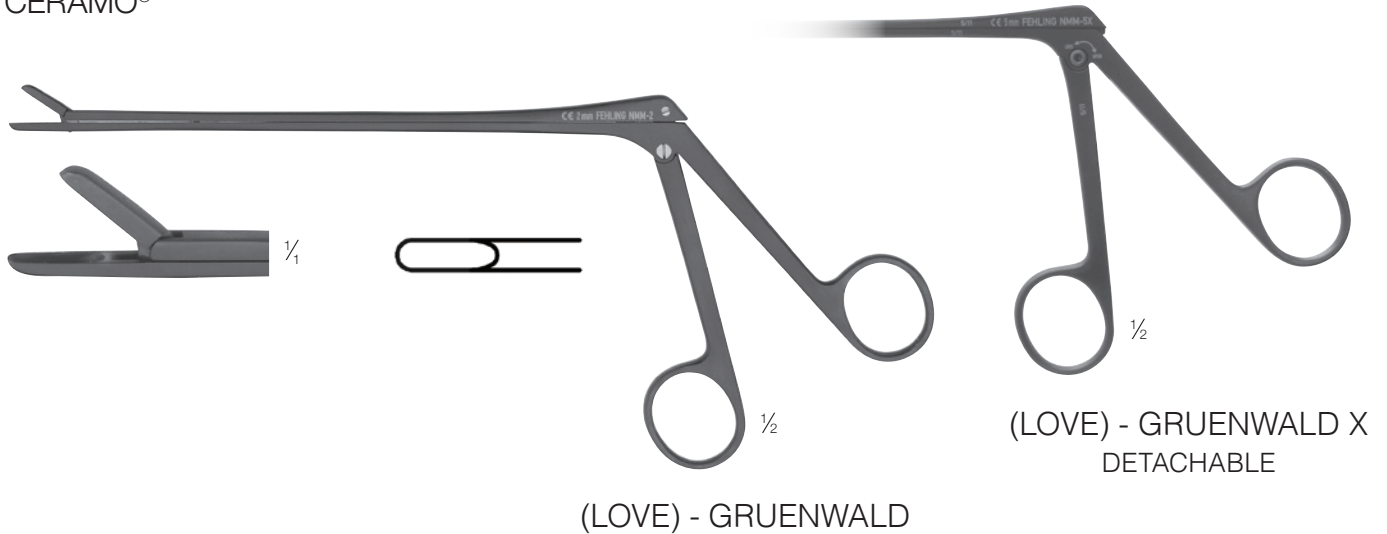
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JAW WIDTH mm	LENGTH mm				
		FERRIS-SMITH	FERRIS-SMITH X	FERRIS-SMITH	FERRIS-SMITH X
2,0	180	TOC-0	TOC-0X	TOF-0	TOF-0X
	200	TOG-0	TOG-0X	TOH-0	TOH-0X
	250	TOI-0	TOI-0X	TOJ-0	TOJ-0X
	300	TOK-0	TOK-0X	TON-0	TON-0X
2,5	200	TOG-7	TOG-7X	–	–
3,0	180	TOC-1	TOC-1X	TOF-1	TOF-1X
	200	TOG-1	TOG-1X	TOH-1	TOH-1X
	250	TOI-1	TOI-1X	TOJ-1	TOJ-1X
	300	TOK-1	TOK-1X	TON-1	TON-1X
	400	TOO-3	TOO-3X	TOO-8	TOO-8X
3,5	200	TOG-8	TOG-8X	–	–
4,0	180	TOC-2	TOC-2X	TOF-2	TOF-2X
	200	TOG-2	TOG-2X	TOH-2	TOH-2X
	250	TOI-2	TOI-2X	TOJ-2	TOJ-2X
	300	TOK-2	TOK-2X	TON-2	TON-2X
	400	TOO-4	TOO-4X	TOO-9	TOO-9X
5,0	180	TOC-3	TOC-3X	TOF-3	TOF-3X
	200	TOG-3	TOG-3X	TOH-3	TOH-3X
	250	TOI-3	TOI-3X	TOJ-3	TOJ-3X
	300	TOK-3	TOK-3X	TON-3	TON-3X
	400	TOO-5	TOO-5X	–	–
6,0	180	TOC-4	TOC-4X	TOF-4	TOF-4X
	200	TOG-4	TOG-4X	TOH-4	TOH-4X
	250	TOI-4	TOI-4X	TOJ-4	TOJ-4X
	300	TOK-4	TOK-4X	TON-4	TON-4X
7,0	180	TOC-5	TOC-5X	TOF-5	TOF-5X
	200	TOG-5	TOG-5X	TOH-5	TOH-5X
	250	TOI-5	TOI-5X	TOJ-5	TOJ-5X
	300	TOK-5	TOK-5X	TON-5	TON-5X
8,0	180	TOC-6	TOC-6X	TOF-6	TOF-6X
	200	TOG-6	TOG-6X	TOH-6	TOH-6X
	250	TOI-6	TOI-6X	TOJ-6	TOJ-6X
	300	TOK-6	TOK-6X	TON-6	TON-6X

All rongeurs with length 300 and 400 mm are calibrated

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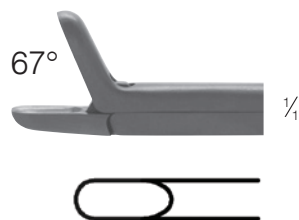


JAW WIDTH mm	LENGTH mm						
		LOVE-GRUENWALD	LOVE-GRUENWALD X	LOVE-GRUENWALD	LOVE-GRUENWALD X	LOVE-GRUENWALD	LOVE-GRUENWALD X
1,0	180	NMM-1	NMM-1X	NMN-1	NMN-1X	NMO-1	NMO-1X
	200	NLP-1	NLP-1X	NMN-0	NMN-0X	–	–
2,0	160	NMJ-2	NMJ-2X	NMK-2	NMK-2X	NML-2	NML-2X
	180	NMM-2	NMM-2X	NMN-2	NMN-2X	NMO-2	NMO-2X
	250	NMP-2	NMP-2X	NMQ-2	NMQ-2X	NMR-2	NMR-2X
	300	NMW-9	NMW-9X	NMW-7 (45°)	NMW-7X (45°)	NMW-8 (45°)	NMW-8X (45°)
	400	NMK-6	NMK-6X	NMT-6 (45°)	NMT-6X (45°)	NMT-8 (45°)	NMT-8X (45°)
3,0	160	NMJ-3	NMJ-3X	NMK-3	NMK-3X	NML-3	NML-3X
	180	NMM-3	NMM-3X	NMN-3	NMN-3X	NMO-3	NMO-3X
	250	NMP-3	NMP-3X	NMQ-3	NMQ-3X	NMR-3	NMR-3X
	300	NMW-3	NMW-3X	NMW-1 (45°)	NMW-1X (45°)	NMW-2 (45°)	NMW-2X (45°)
	400	NMK-7	NMK-7X	NMT-7 (45°)	NMT-7X (45°)	NMT-9 (45°)	NMT-9X (45°)
4,0	160	NMJ-4	NMJ-4X	NMK-4	NMK-4X	NML-4	NML-4X
	180	NMM-4	NMM-4X	NMN-4	NMN-4X	NMO-4	NMO-4X
	250	NMP-4	NMP-4X	NMQ-4	NMQ-4X	NMR-4	NMR-4X
	300	NMU-5	NMU-5X	NMU-1 (45°)	NMU-1X (45°)	NMU-2 (45°)	NMU-2X (45°)
	400	NMK-8	NMK-8X	NMU-3 (45°)	NMU-3X (45°)	NMU-4 (45°)	NMU-4X (45°)
5,0	160	NMJ-5	NMJ-5X	NMK-5	NMK-5X	NML-5	NML-5X
	180	NMM-5	NMM-5X	NMN-5	NMN-5X	NMO-5	NMO-5X
	250	NMP-5	NMP-5X	NMQ-5	NMQ-5X	NMR-5	NMR-5X
	300	NMW-6	NMW-6X	NMW-4 (45°)	NMW-4X (45°)	NMW-5 (45°)	NMW-5X (45°)
	400	NMK-9	NMK-9X	NMU-8 (45°)	NMU-8X (45°)	NMU-9 (45°)	NMU-9X (45°)

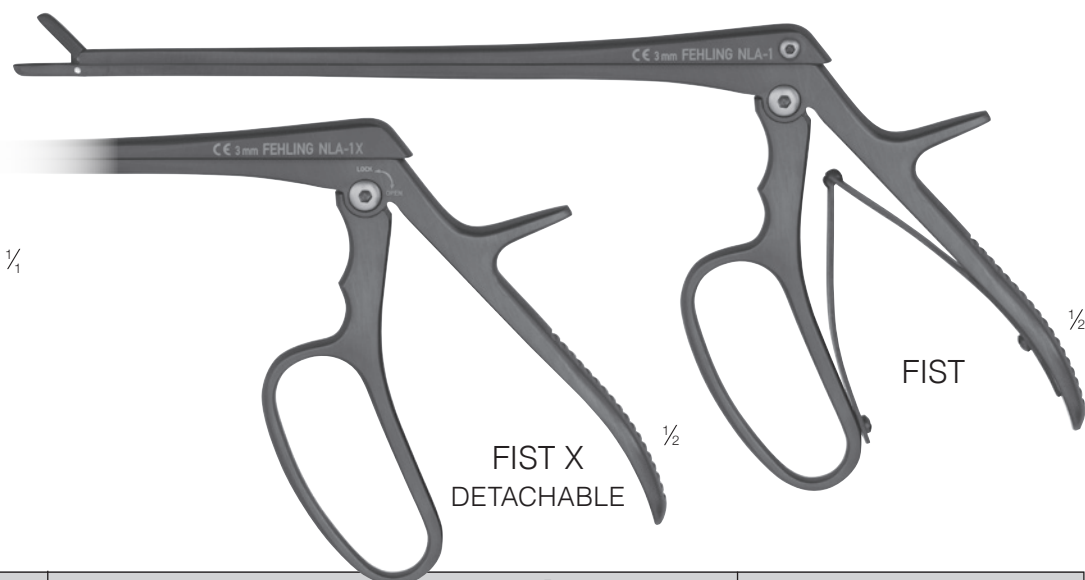
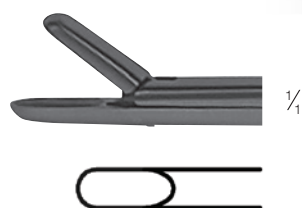
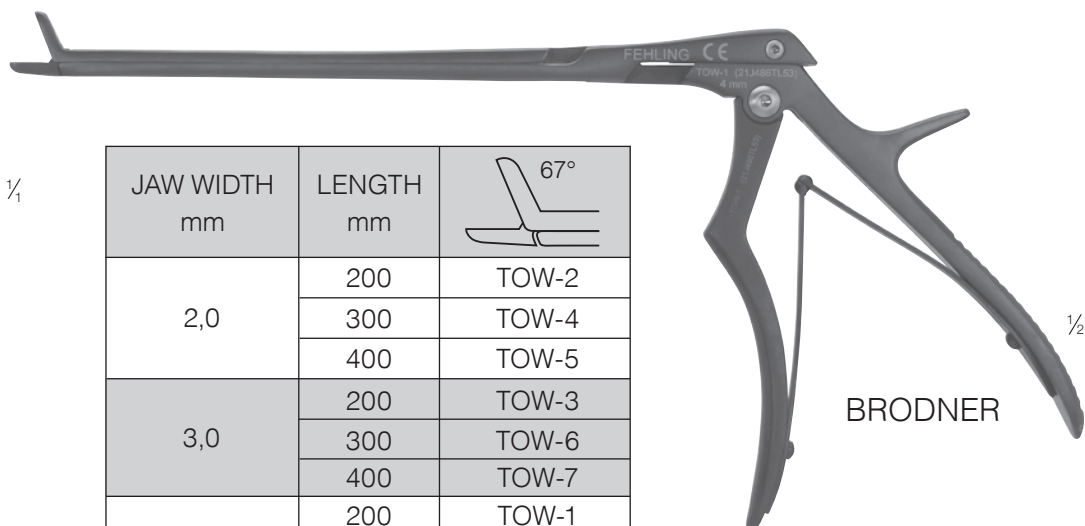
All rongeurs with length 300 and 400 mm are calibrated

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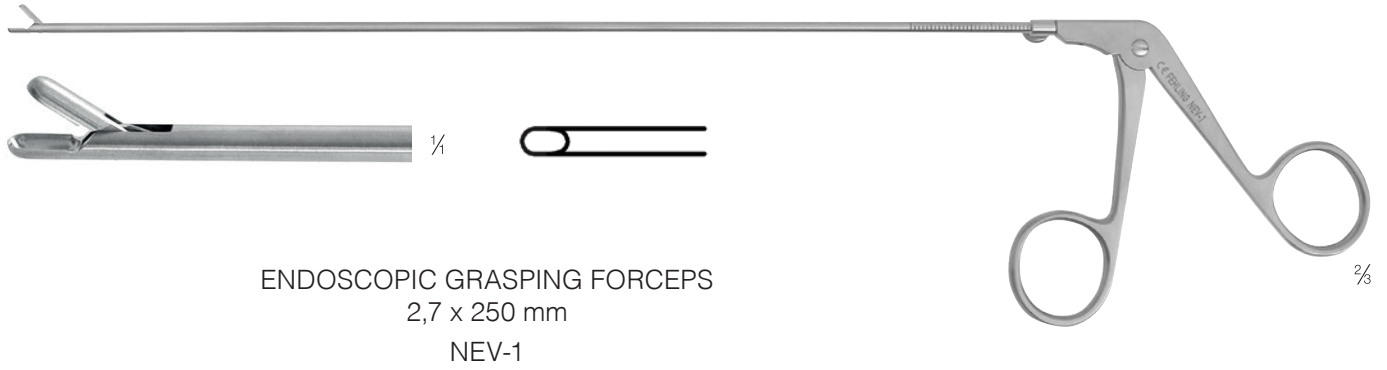


JAW WIDTH mm	LENGTH mm	67°
2,0	200	TOW-2
	300	TOW-4
	400	TOW-5
3,0	200	TOW-3
	300	TOW-6
	400	TOW-7
4,0	200	TOW-1
	300	TOW-8
	400	TOW-9



JAW WIDTH mm	LENGTH mm	30°/45°		30°/45°		30°/45°	
		FIST	FIST X	FIST	FIST X	FIST	FIST X
3,0	200	NLA-1	NLA-1X	NLB-5	NLB-5X	NLD-1	NLD-1X
	300	NLA-5	NLA-5X	NLC-1	NLC-1X	NLD-5	NLD-5X
	400	NLB-1	NLB-1X	NLC-5	NLC-5X	NLE-1	NLE-1X
4,0	200	NLA-2	NLA-2X	NLB-6	NLB-6X	NLD-2	NLD-2X
	300	NLA-6	NLA-6X	NLC-2	NLC-2X	NLD-6	NLD-6X
	400	NLB-2	NLB-2X	NLC-6	NLC-6X	NLE-2	NLE-2X
5,0	200	NLA-3	NLA-3X	NLB-7	NLB-7X	NLD-3	NLD-3X
	300	NLA-7	NLA-7X	NLC-3	NLC-3X	NLD-7	NLD-7X
	400	NLB-3	NLB-3X	NLC-7	NLC-7X	NLE-3	NLE-3X
6,0	200	NLA-4	NLA-4X	NLB-8	NLB-8X	NLD-4	NLD-4X
	300	NLA-8	NLA-8X	NLC-4	NLC-4X	NLD-8	NLD-8X
	400	NLB-4	NLB-4X	NLC-8	NLC-8X	NLE-4	NLE-4X

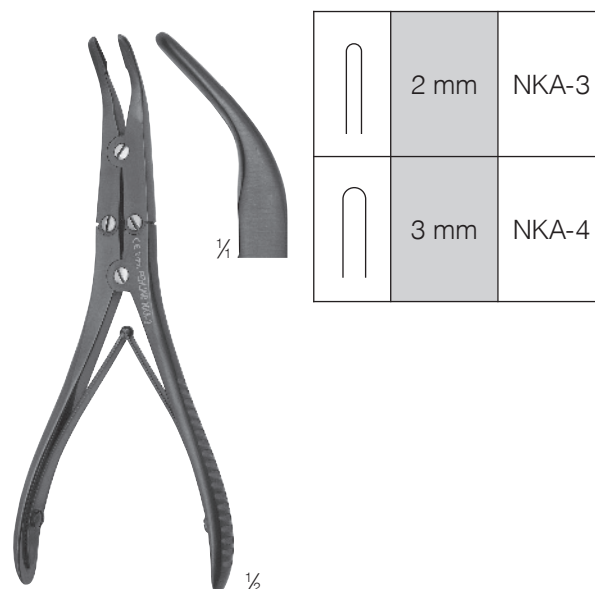
All rongeurs with length 300 and 400 mm are calibrated



CERAMO®



BÖHLER
150 mm



BÖHLER
150 mm



BEYER
180 mm
NKA-5



ZAUFAL-JANSEN
180 mm
NKA-6



RUSKIN
190 mm
NKA-7

CERAMO®



MARQUARDT
200 mm

	2 mm	NKA-8
	3 mm	NKA-9



RUSKIN
230 mm
NKB-7



SMITH-PETERSEN
240 mm

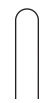
	3 mm	NKB-1
	4 mm	NKB-2
	5 mm	NKB-3



SMITH-PETERSEN
240 mm

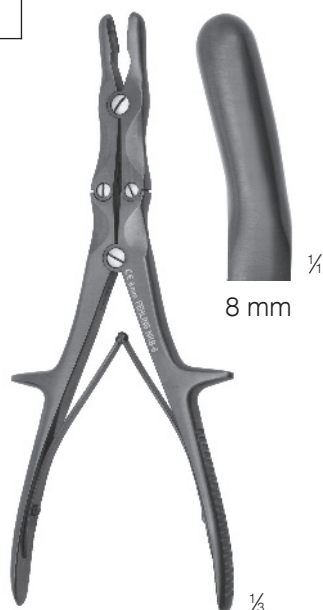
	2 mm	NKB-0
	3 mm	NKB-4
	4 mm	NKB-5
	5 mm	NKB-6

CERAMO®

	3 mm	NKC-7
	5 mm	NKC-8
	8 mm	NKC-9



MEGA-LUER
400 mm



STILLE-RUSKIN
230 mm
NKB-8



LUER-STILLE
270 mm
NKC-4



LUER-STILLE
220 mm



10 mm
NKC-1



10 mm
NKC-2



SEMB
230 mm
NKC-3

CERAMO®



LEKSELL
230 mm

½

	2 mm	NKD-0
	3 mm	NKD-6
	4 mm	NKD-7
	6 mm	NKD-8
	8 mm	NKD-9



LEKSELL
230 mm

½

	3 mm	NKF-6
	4 mm	NKF-7
	6 mm	NKF-8
	8 mm	NKF-9



STILLE
230 mm

½

	2 mm	NKD-1
	3 mm	NKD-2
	4 mm	NKD-3
	6 mm	NKD-4
	8 mm	NKD-5

CERAMO®



BÖHLER
150 mm



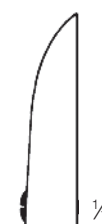
NKK-1



NKK-2



RUSKIN-LISTON
190 mm



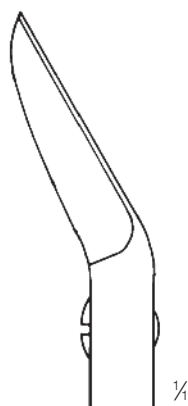
NKK-3



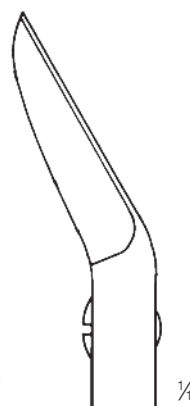
NKK-4



LISTON



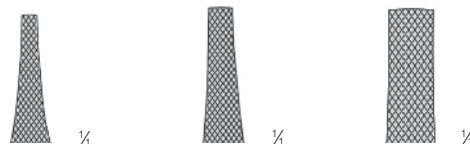
235 mm
NKK-5



275 mm
NKK-6



WIRE EXTRACTION PLIER



LENGTH	EXTRA DELICATE	DELICATE	LARGE
150 mm	LAE-6	—	LAE-8
180 mm	LAE-4	LAE-7	LAE-9



ROUND PLIERS
180 mm
LAH-7

Your Distributor

The dimensions listed in the catalog are nominal measurements. Actual values may differ slightly due to variations in production.

Please note that not all products are available in every country.



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