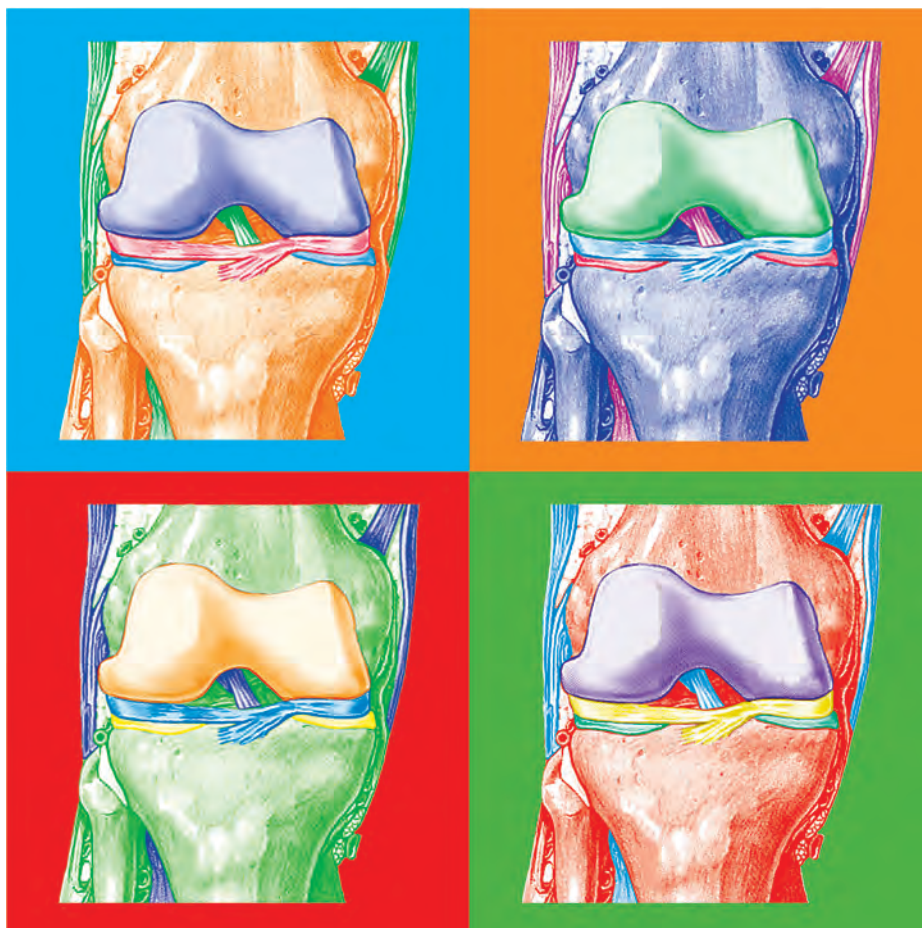




KNOCHEN - CHIRURGIE
BONE SURGERY
CIRURGIA ORTOPEDICA
CHIRURGIE OSSEUSE

ELCON
MEDICAL INSTRUMENTS GmbH

390 - 419

**KNOCHEN - CHIRURGIE
BONE SURGERY
CIRURGIA ORTOPEDICA
CHIRURGIE OSSEUSE**

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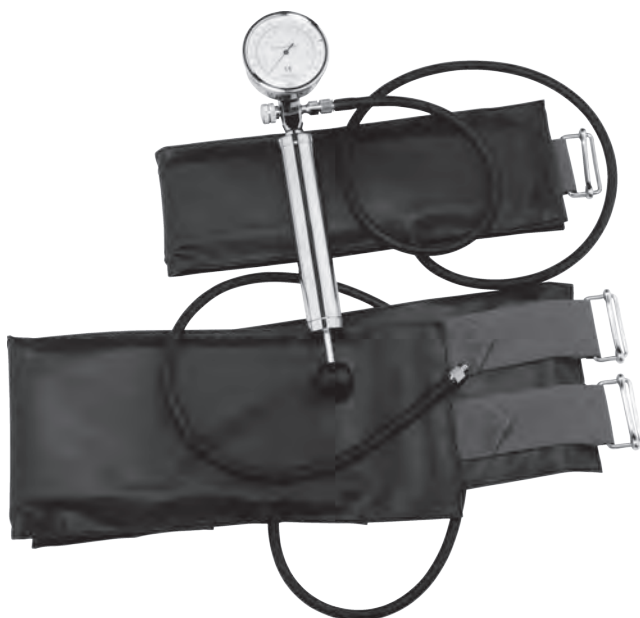
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410-543	45	410-625	47	410-901	55	411-082	62	411-242	57
410-544	45	410-625	50	410-902	55	411-083	62	411-243	57
410-545	45	410-626	47	410-903	55	411-160-06	59	411-244	57
410-546	45	410-626	50	410-904	55	411-160-09	59	411-245	57
410-547	45	410-627	47	410-910	55	411-160-13	59	411-246	57
410-548	45	410-628	47	410-911	55	411-160-16	59	411-247	57
410-549	45	410-628	50	410-912	55	411-160-19	59	411-248	57
410-560	46	410-629	50	410-913	55	411-160-25	59	411-249	57
410-561	46	410-630	47	410-914	55	411-160-32	59	411-250	57

411-251	57	411-393	69	411-625	78	412-586	87	413-662	92
411-252	57	411-394	69	411-625	78	412-588	87	413-663	92
411-2602	56	411-394	69	411-631	78	412-600	89	414-643	48
411-2603	56	411-395	69	411-632	78	412-601	89	414-643	48
411-2604	56	411-400	72	411-633	78	412-602	89	414-644	48
411-2612	56	411-401	72	411-641-03	80	412-603	89	414-645	48
411-2613	56	411-402	72	411-641-05	80	412-604	89	414-653	48
411-2614	56	411-403	72	411-641-08	80	412-606	89	414-654	48
411-2620	61	411-411	72	411-645-03	80	412-608	89	414-655	48
411-2621	61	411-412	72	411-645-05	80	412-610	89	414-734	48
411-2622	61	411-450	72	411-645-08	80	413-002	90	414-735	48
411-2623	61	411-503	74	411-651	80	413-003	90	414-743	48
411-2624	61	411-505	73	411-660	79	413-004	90	414-743	48
411-2625	61	411-507	73	411-661	79	413-005	90	414-744	48
411-2626	61	411-509	73	411-670	79	413-006	90	414-744	48
411-2627	61	411-510	74	411-671	79	413-007	90	414-754	48
411-2628	61	411-511	74	411-672	79	413-008	90	414-755	48
411-2629	61	411-513	74	411-673	79	413-009	90	414-756	48
411-300	65	411-520	75	411-681	79	413-010	90	416-0508	92
411-301	65	411-521	75	411-700	82	413-012	90	416-0510	92
411-303	63	411-522	75	411-701	82	413-015	90	416-0512	92
411-3046	63	411-523	75	411-702	82	413-062	90	416-0514	92
411-305	65	411-527	74	411-703	82	413-065	90	416-0515	92
411-307	63	411-529	74	411-704	82	413-072	90	416-0516	92
411-308	63	411-535	76	411-705	82	413-100	90	416-0518	92
411-309	64	411-539	73	411-706	82	413-120	90	416-0520	92
411-310	64	411-541	73	411-707	82	413-130	95	416-0521	92
411-313	63	411-543	73	411-710	82	413-134	95	416-0525	92
411-316	66	411-546	75	411-749	82	413-135	95	416-0530	92
411-317	66	411-547	75	411-751	82	413-140	96	419-0038	93
411-318	66	411-548	75	411-800	83	413-146	96	419-0040	93
411-319	64	411-549	75	411-801	83	413-150	94	419-0042	93
411-320	65	411-553	75	411-810	83	413-152	94	419-0044	93
411-322	65	411-567	74	411-811	83	413-153	94	419-0045	93
411-324	65	411-565	74	411-820	83	413-154	94	419-0046	93
411-330	64	411-569	74	411-821	83	413-158	95	419-0048	93
411-340	68	411-570-01	73	411-822	83	413-160	95	419-0050	93
411-341	68	411-570-02	73	411-823	83	413-161	95	419-0052	93
411-342	68	411-570-03	73	411-829	84	413-165	95	419-0055	93
411-345	69	411-570-04	73	411-830	84	413-170	94	419-0060	93
411-346	69	411-575	73	411-831	84	413-171	94	419-0138	93
411-347	69	411-577	73	411-833	84	413-172	94	419-0140	93
411-350	67	411-583	75	411-840	85	413-173	94	419-0142	93
411-351	67	411-589	75	411-850	85	413-174	94	419-0144	93
411-352	67	411-593	76	412-006	98	413-177	94	419-0145	93
411-353	67	411-595	76	412-010	98	413-178	94	419-0146	93
411-356	67	411-600	77	412-033	98	413-179	94	419-0148	93
411-357	67	411-601	77	412-034	98	413-186	96	419-0150	93
411-370	70	411-602	77	412-090SS	98	413-192	96	419-0152	93
411-371	70	411-603	77	412-127	86	413-193-15	96	419-0155	93
411-372	70	411-605	77	412-158	86	413-193-18	96	419-0160	93
411-373	70	411-611	77	412-159	86	413-195	96	419-0308	93
411-375	71	411-613	77	412-180	86	413-198	97	419-0310	93
411-376	71	411-614	77	412-182	86	413-199	97	419-0312	93
411-377	71	411-615	77	412-412	87	413-202	97	419-0314	93
411-378	71	411-617	77	412-500	88	413-600	92	419-0315	93
411-379	71	411-619	77	412-510	88	413-601	92	419-0316	93
411-390	69	411-620	78	412-520	88	413-602	92	419-0318	93
411-391	69	411-620	78	412-540	87	413-650	92	419-0320	93
411-392	69	411-621	78	412-580	87	413-651	92	419-0322	93
411-392	69	411-624	78	412-581	87	413-661	92	419-0325	93

419-0330	93	419-2316	93	440-627	28	450-702	30
419-1138	93	419-2318	93	440-636	27	450-703	30
419-1140	93	419-2320	93	440-637	27	450-706	30
419-1142	93	419-2322	93	440-660	29	450-707	30
419-1144	93	419-2325	93	440-665	29	450-708	29
419-1145	93	419-2330	93	440-666	29	450-732	29
419-1146	93	419-5418-08	93	441-111	42	450-733	29
419-1148	93	419-5418-10	93	441-113	42	450-740	26
419-1150	93	419-5418-12	93	441-290	46	450-741	26
419-1152	93	419-5418-14	93	441-291	46	451-120	82
419-1155	93	419-5418-16	93	441-292	46	452-270	28
419-1160	93	419-5418-18	93	441-293	46	452-271	28
419-1308	93	419-5418-20	93	441-294	46	453-103	56
419-1310	93	419-5418-22	93	441-295	46	453-105	56
419-1312	93	419-5418-25	93	441-296	46	453-113	56
419-1314	93	419-5433-08	93	441-297	46	453-115	56
419-1315	93	419-5433-10	93				
419-1316	93	419-5433-12	93	450		470	
419-1318	93	419-5433-14	93	450-302	54	470-930	15
419-1320	93	419-5433-16	93	450-304	54		
419-1322	93	419-5433-18	93	450-306	54		
419-1325	93	419-5433-20	93	450-308	54		
419-1330	93	419-5433-22	93	450-310	54		
419-2038	93	419-5433-25	93	450-312	54		
419-2040	93			450-319	57		
419-2042	93	430		450-320	57		
419-2044	93	431-480-01	43	450-321	57		
419-2045	93	431-481-01	43	450-322	57		
419-2046	93	431-481-02	43	450-323	57		
419-2048	93	431-481-03	43	450-324	57		
419-2050	93	431-481-04	43	450-325	57		
419-2052	93	431-482-01	43	450-326	57		
419-2055	93	431-515	30	450-328	57		
419-2060	93	431-517	30	450-330	57		
419-2138	93			450-332	57		
419-2140	93			450-334	57		
419-2142	93	440		450-335	57		
419-2144	93	440-500	54	450-336	57		
419-2145	93	440-501	54	450-337	57		
419-2146	93	440-504	54	450-500	42		
419-2148	93	440-530	56	450-501	42		
419-2150	93	440-532	56	450-510	41		
419-2152	93	440-534	56	450-512	42		
419-2155	93	440-536	56	450-513	42		
419-2160	93	440-540	56	450-518	41		
419-2208	93	440-542	56	450-519	41		
419-2210	93	440-544	56	450-520	41		
419-2212	93	440-546	56	450-530	41		
419-2214	93	440-591	54	450-531	41		
419-2215	93	440-593	54	450-531	41		
419-2216	93	440-602	28	450-540	39		
419-2218	93	440-603	28	450-542	39		
419-2220	93	440-611	27	450-548	39		
419-2222	93	440-612	27	450-590	40		
419-2225	93	440-614	26	450-591	40		
419-2230	93	440-615	28	450-592	40		
419-2308	93	440-616	28	450-593	40		
419-2310	93	440-618	27	450-594	40		
419-2312	93	440-620	28	450-698	30		
419-2314	93	440-621	28	450-700	30		
419-2315	93	440-626	28	450-701	30		



390-100

Komprimeter zur Erzeugung einer Blutleere in den Extremitäten, Manometer mit Meßbereich bis 700mm Hg. Komplett bestehend aus:

- 390-102 1 Oberarm Manschette
- 390-103 1 Oberschenkel Manschette
- 390-101 1 Luftpumpe
- 390-104 1 Manometer

Comprimeter: Compression apparatus for producing exsanguination in the extremities. Manometer registers up to 700mm Hg. Complete consisting of:

- 390-102 1 Cuff for the arm
- 390-103 1 Cuff for the leg
- 390-101 1 Pump
- 390-104 1 Manometer

Torniquete para producir una isquemia local en las extremidades. Manómetro ajustado hasta 700mm Hg. Completo, compuesto de:

- 390-102 1 Brazaletes para el brazo
- 390-103 1 Brazaletes para el muslo
- 390-101 1 Bomba de aire
- 390-104 1 Manómetro

Appareil comporessif permettant de créer une ischémie dans les extrémités. Manomètre ajusté jusqu'à 700mm Hg. Complet, composé de:

- 390-102 1 Manchette pour las cuisse
- 390-103 1 Manchette pour la bras
- 390-101 1 Pompe à air
- 390-104 1 Manomètre

390-105

Kindermanschette
Cuff for children
Brazaletes para niños
Manchette pour les enfants



ESMARCH 390-120

Staubinde 5m lang und 60mm breit
Compression bandage 5m long and 60mm wide
Venda-compresión 5m largo y 60mm ancho
Bande compressive 5m long et 60mm large



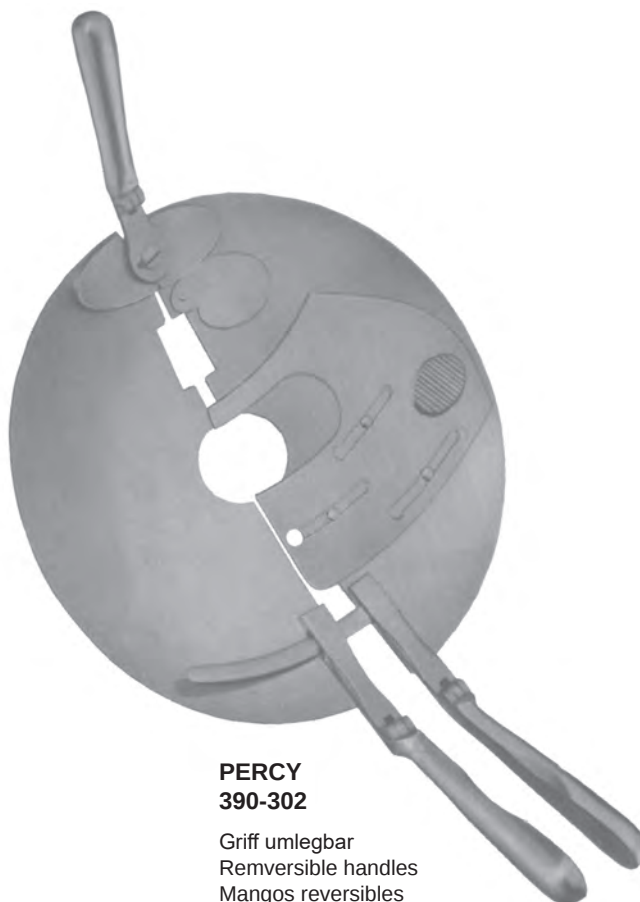
ESMARCH 390-130

Stauschlauch 1m lang
Compression tube 1m long
Tubo-compresión 1m largo
Tube compressive 1m long



**PERCY
390-300**

Griff abnehmbar
Removable handles
Mangos desmontables
Manches démontables



**PERCY
390-302**

Griff umlegbar
Remversible handles
Mangos reversibles
Manches pivotants



390-441 4mm
390-442 6mm
390-443 8mm

Sägeblatt
Saw blade
hoja
lame

**BIER
390-440**
390mm, 15 3/8"

komplett mit je 1 Sägeblatt 4mm, 6mm, 8mm
complete with 1 each saw blade 4mm, 6mm, 8mm
completo con 1 hoja de 4mm, 6mm, 8mm
complet avec 1 lame de 4mm, 6mm, 8mm



LANGENBECK

390-400 235mm, 9 1/2"



CHARRIERE

390-410 270mm, 10 3/4"

390-411

Sägeblatt
Saw blade
hoja
lame



SATTERLEE

390-420 300mm, 12"

390-421

Sägeblatt
Saw blade
hoja
lame



CHARRIERE

390-430 350mm, 13 3/4"

komplett mit je 1 Sägeblatt 12mm, 18mm
complete with 1 each saw blade 12mm, 18mm
completo con 1 hoja de 12mm, 18mm
complet avec 1 lame de 12mm, 18mm

390-431 12mm

390-432 18mm

Sägeblatt
Saw blade
hoja
lame



BAILEY-DEMARTEL
340-835
330mm, 13"



GIGLI
390-500
Paar
pair
paire
par



GIGLI
390-501
Paar
pair
paire
par



GIGLI OLIVECRONA

	Länge length longueur longitud	Durchmesser diameter diametre diametro
390-512-30	300mm	1,2mm
390-512-40	400mm	1,2mm
390-512-50	500mm	1,2mm
390-512-60	600mm	1,2mm
390-512-70	700mm	1,2mm



GIGLI OLIVECRONA

	Länge length longueur longitud	Durchmesser diameter diametre diametro
390-514-30	300mm	1,4mm
390-514-40	400mm	1,4mm
390-514-50	500mm	1,4mm
390-514-60	600mm	1,4mm
390-514-70	700mm	1,4mm



MARTIN
400-331 210mm, 8 1/4"



ENGEL
400-410 150mm, 6"



HOPKINS
400-300 200mm, 8"



ESMARCH
400-310 180mm, 7"

400-450 Plaster Saw, 230 V / 50-60 Hz

400-452 Plaster Saw, 110 V / 50-60 Hz

complete with:

- 1 x sawblade Ø 50mm for standard plaster (400-460-1)
- 1 x sawblade Ø 65mm (400-461-1)
- 1 x pair of wrenches
- 1 x instruction manual

TECHNICAL DATA

- ☐ 500 Watt power
- ☐ 6500 bis 24000 oscillations, infinitely variable
- ☐ Fully automatic power-compensation
- ☐ Slim motor design with silent motor 52 – 77 dB(A)
- ☐ Soft Start at switch-on to minimize accident risk and to save all mechanical and electronical components
- ☐ Safety ON / OFF switch
- ☐ Weight only 1,25 kg without cable
- ☐ Vibration- and maintenance-free
- ☐ 5 meter cable with EU-connection, 230 Volt
3 meter cable with US-connection, 110 Volt
- ☐ Double protection isolation according to class II, medical use of type BF
- ☐ Radio and TV suppressed
- ☐ CE conformity
- ☐ EN 60601-1, EN 60601-1-2, IEC 60601-1,
- ☐ 2 years warranty / 1 year guarantee on engine and transmission part (in case of proper use)



400-469 Transport case, plastic

400-450 Sierra de yeso electrica, 230 V / 50-60 Hz

400-452 Sierra de yeso electrica, 110 V / 50-60 Hz

Completo con:

- 1 x hoja Ø 50mm para yeso normal (400-460-1)
- 1 x hoja Ø 65mm para yeso normal (400-461-1)
- 1 x Juego de llaves 11mm / 1 x manual de instrucciones

DATOS TECNICOS

- ☐ 500 vatios potencia
- ☐ 6500 hasta 24000 oscilaciones, infinitamente regulable
- ☐ Compensación de alimentación automática
- ☐ Delgado diseño del motor con motor silencioso 52-77 dB(A)
- ☐ Nuevo sistema electronica con varias funciones de protección y seguridad
- ☐ Conector de seguridad ON / OFF
- ☐ Peso solamente 1,25 kg sin cable
- ☐ Sin vibraciones y mantenimiento
- ☐ 5 metros de cable con conexión EU, 230 voltios
3 metros de cable con conexión US, 110 voltios
- ☐ Isolación doble protección según clase II, uso medical del tipo BF
- ☐ TV y radio suprimido / ☐ Conformidad de CE
- ☐ Testado según EN 60601-1, EN 60601-1-2, IEC 60601-1,
- ☐ 2 años de garantía / 1 año de garantía al motor & parte de transmisión (en caso de uso adecuado)

400-469 Maleta de transporte, plástica

400-450 Scie à plâtre, 230 V / 50-60 Hz

400-452 Scie à plâtre, 110 V / 50-60 Hz

complète avec :

- 1 x lame de scie Ø 50mm (400-460-1)
- 1 x lame de scie Ø 65mm (400-461-1)
- 1 x paire de clés 11mm / 1 x mode d'emploi

DATES TECHNIQUES

- ☐ puissance 500 watt
- ☐ 6500 à 24000 oscillations, réglable en continu
- ☐ compensation autom. de puissance
- ☐ design mince du moteur avc. moteur silencieux 52-77dB(A)
- ☐ démarrage doux pour réduire risque d'accident et pour protéger les éléments mécaniques et électroniques
- ☐ commutateur de sécurité ON / OFF
- ☐ poids seulement 1,25 kg, sans câble
- ☐ exempt de vibrations et entretien pas nécessaire
- ☐ câble de 5 m avec connexion CE, 230 volt
câble de 3 m avec connexion USA, 110 volt
- ☐ protection double d'isolation conformément à classe II, utilisation médicale type BF
- ☐ ondes radio et TV supprimées / ☐ conformité CE
- ☐ conformité EN 60601-1, EN 60601-1-2, IEC 60601-1,
- ☐ 2 ans de garantie / 1 an pour moteur et élément de transmission (lors d'utilisation conforme)

400-469 Mallette en plastique, pour transport



400-490 Plaster Saw (400-450) with dust collector, 230 V / 50-60 Hz
400-492 Plaster Saw (400-452) with dust collector, 110 V / 50-60 Hz

complete with:

- 1 x sawblade Ø 50mm for standard plaster (400-460-1)
- 1 x sawblade Ø 65mm (400-461-1)
- 1 x pair of wrenches / 1 x HEPA Filter

TECHNICAL DATA - dust collector

- ☐ 400 - 750 Watt power, vacuum motor
- ☐ Continuous Power Output max. 1200 Watt,
- ☐ Max. Power Output 1450 Watt PT,
- ☐ HEPA-Filter 99,97% of all particles which are
 >= 0,3 micron are filtered
- ☐ Automatic turn on/off of the cleaner with
 the turn on/off of the plaster saw
- ☐ When plaster saw is turned off, the cleaner will
 go off 6-10 sec. later to clean the whole system
- ☐ Max. vacuum 2100mm/H₂O, vacuum motor
- ☐ Max. vacuum 1900mm/H₂O, vacuum machine
- ☐ Air flow motor 62 lt./sec. in the machine, due to
 all the filters the air flow goes down to 40 lt./sec.
- ☐ Electronic power control 500 W – 1200 W
- ☐ Max. total power (system) 1600 Watt, controlled
- ☐ Noise level vacuum only, 63 – 69 dB(A)
- ☐ Antistatic cleaner tube
- ☐ Control lamp for full dust bag
- ☐ Cleaner tube is in the pipe and not on the floor

400-495-1 HEPA Filter

400-495-2 Dust Bag

400-495-3 Perfume Stick

400-495-4 Motor Filter

400-490 Sierra de yeso electrica (400-450) con aspirador, 230 V
400-492 Sierra de yeso electrica (400-450) con aspirador, 110 V

Comleto con:

- 1 x hoja Ø 50mm para yeso normal (400-460-1)
- 1 x hoja Ø 65mm para yeso normal (400-461-1)
- 1 x Juego de llaves 11mm / 1 x manual de instrucciones

DATOS TECNICOS - con aspirador

- ☐ 400 - 750 vatios potencia, motor vacío
- ☐ Potencia continua de salida max. 1200 vatios
- ☐ Max. potencia de salida 1450 vatios PT
- ☐ Filtro HEPA 99,97% de todas las particulas cuales son
 >= 0,3 micron son filtradas
- ☐ Encendido / Apagado automático de la aspiradora junto
 con encendido / apagado de la sierra de yeso
- ☐ Cuando la sierra de yeso esta apagada la aspiradora se
 apagará 6-10 sec. después para limpiar todo el sistema
- ☐ Max. vacío 2100mm/H₂O, motor vacío
- ☐ Max. vacío 1900mm/H₂O, maquina vacío
- ☐ Flujo del aire del motor 62 lt./sec. en la maquina debido a
 los filtros el flujo del aire se baja a 40 litros./sec.
- ☐ Control electronico de potencia 500 vatios – 1200 vatios
- ☐ Max. potencia total (sistema) 1600 vatios, controlado
- ☐ Nivel de ruido solo del vacío 63 – 69 dB(A)
- ☐ Tubo del aspirador antiestático
- ☐ Lampara de control para bolsa de polvo
- ☐ Manguera del aspirador es dentro del tubo y no al suelo

400-495-1 Filtro HEPA

400-495-2 Bolsa de polvo

400-495-3 Palo de perfume

400-495-4 Filtro para el motor

400-469 Maleta de transporte, plástica (solo sierra)

400-490 Scie à plâtre (400-450) avec aspirateur, 230 V / 50-60 Hz
400-492 Scie à plâtre (400-450) avec aspirateur, 110 V / 50-60 Hz

complète avec :

- 1 x lame de scie Ø 50mm (400-460-1)
- 1 x lame de scie Ø 65mm (400-461-1)
- 1 x paire de clés 11mm / 1 x mode d'emploi

DATES TECHNIQUES - aspirateur

- ☐ puissance 400 - 750 watt, moteur vacuum
- ☐ sortie puissance continue max. 1200 watt
- ☐ sortie puissance max. 1450 Watt PT
- ☐ filtre HEPA - filtration de 99,97% de tous particles
 >= 0,3 micron
- ☐ démarrage / arrêt automatique de l'aspirateur
 dépendant du démarrage / de l'arrêt de la scie
- ☐ pour nettoyage du système entier, l'aspirateur
 s'arrête avec une temporisation de 6-10 sec. après
 arrêt de la scie à plâtre
- ☐ construction robuste pour charge élevée
- ☐ vacuum max. 2100mm/H₂O, moteur vacuum
- ☐ vacuum max. 1900mm/H₂O, machine vacuum
- ☐ débit air moteur 62 lt./sec. dans la machine ; les
 filtres contenus réduisent ce débit à 40 lt./sec.
- ☐ commande puissance électronique 500 W – 1200 W
- ☐ puissance max. totale (système) 1600 Watt, contrôlé
- ☐ niveau du bruit - seulement vacuum 63 – 69 dB(A)
- ☐ lampe de contrôle pour sac collecteur poussière plein

400-495-1 Filtre HEPA

400-495-2 Sac collecteur poussière

400-495-3 Stick perfume

400-495-4 Filtre moteur

400-469 Mallette en plastique, pour transport



Sägeblätter, für standardgips
Saw Blades, for standard plaster
Hojas para yeso normal
Lames de scie, pour plâtre standard

400-462-1	Ø 45mm
400-460-1	Ø 50mm
400-461-1	Ø 65mm



Sägeblätter, für standardgips
Saw Blades, for standard plaster
Hojas para yeso normal
Lames de scie, pour plâtre standard

400-470-1	Ø 65mm
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Sägeblätter, für standardgips
Saw Blades, for standard plaster
Hojas para yeso normal
Lames de scie, pour plâtre standard

400-471-1	Ø 65mm
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Sägeblätter, für synthetischengips
Saw Blades, for synthetic casts
HOJAS, para vendajes sintéticos
Lames de scie, pour bandage synthétique

400-462-2	Ø 45mm
400-460-2	Ø 50mm
400-461-2	Ø 65mm

Sägeblätter, für synthetischengips
Saw Blades, for synthetic casts
HOJAS, para vendajes sintéticos
Lames de scie, pour bandage synthétique

400-470-2	Ø 65mm
-----------	--------

Sägeblätter, für synthetischengips
Saw Blades, for synthetic casts
HOJAS, para vendajes sintéticos
Lames de scie, pour bandage synthétique

400-471-2	Ø 65mm
-----------	--------

Sägeblätter, PTFE antihaf beschichtet
Saw Blades, PTFE non-stick coating
HOJAS, antiadherente PTFE
Lames de scie, PTFE, avec revêtement anti-adhérent

400-460-3	Ø 50mm
400-461-3	Ø 65mm



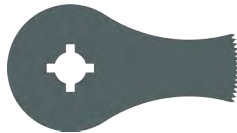
Excentrische Scheibe,
zur Schnitttiefenregulierung
Eccentric disc,
to limit cutting depth
Disco de Excéntrico
para limitar la profundidad del corte
Disque excentrique, pour
limitation de profondeur de coupe

400-478



Sägeblätter, für standardgips
Saw Blades, for standard plaster
Hojas para yeso normal
Lames de scie, pour plâtre standard

400-472-1	8mm
-----------	-----



Sägeblätter, für standardgips
Saw Blades, for standard plaster
Hojas para yeso normal
Lames de scie, pour plâtre standard

400-473-1	20mm
-----------	------

Spannschlüssel 11mm
Wrench, pair 11mm
Juego de llaves 11mm
Clés, paire, 11mm



400-468

Sägeblätter, für synthetischengips
Saw Blades, for synthetic casts
HOJAS, para vendajes sintéticos
Lames de scie, pour bandage synthétique

400-472-2	8mm
-----------	-----

Sägeblätter, für synthetischengips
Saw Blades, for synthetic casts
HOJAS, para vendajes sintéticos
Lames de scie, pour bandage synthétique

400-473-2	20mm
-----------	------



ein Blatt gezahnt
one serrated blade
una hoja dentada
une lame dentelée

LISTER EXCENTRIC
124-261
160mm, 6 1/4"



124-251 180mm, 7"
124-253 140mm, 5 1/2"



BERGMANN
124-227
230mm, 9"



ESMARCH
124-321 200mm, 8"
124-323 220mm, 8 3/4"



LORENZ
124-225
240mm, 9 1/2"



SEUTIN
124-305
230mm, 9"



BRUNS
124-331
240mm, 9 1/2"

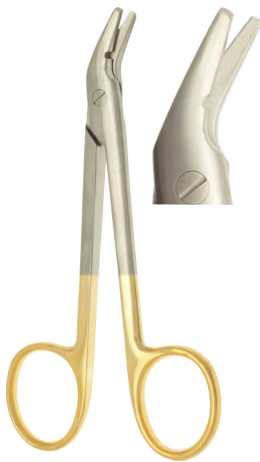


gezahnt
serrated
dentada
dentelée

BRUNS
124-333
240mm, 9 1/2"

Scheren mit Hartmetallschneiden, Scissors with tungsten carbide edges
Tijeras con filos de carburo tungsteno, Ciseaux avec des lames en tungstène

TUNGSTENCUT



gezahnt
serrated edge
estriada
dentalés

UNIVERSAL
121-099
120mm, 4 3/4"



LISTER
121-905
180mm, 7"



BRUNS
121-917
240mm, 9 1/2"



WOLF-BÖHLER

400-500 180mm, 7"

400-502 240mm, 9 1/2"



STILLE

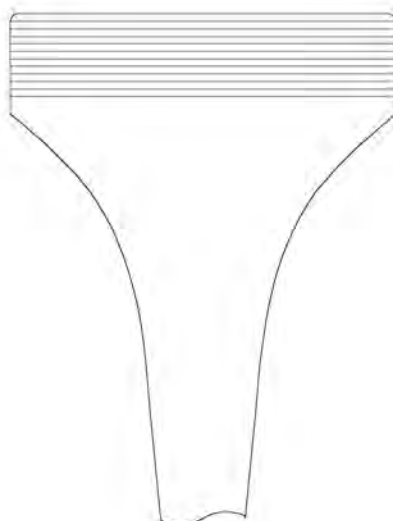
400-201 230mm, 9"

400-203 260mm, 10 1/4"

400-211 380mm, 15 1/8"



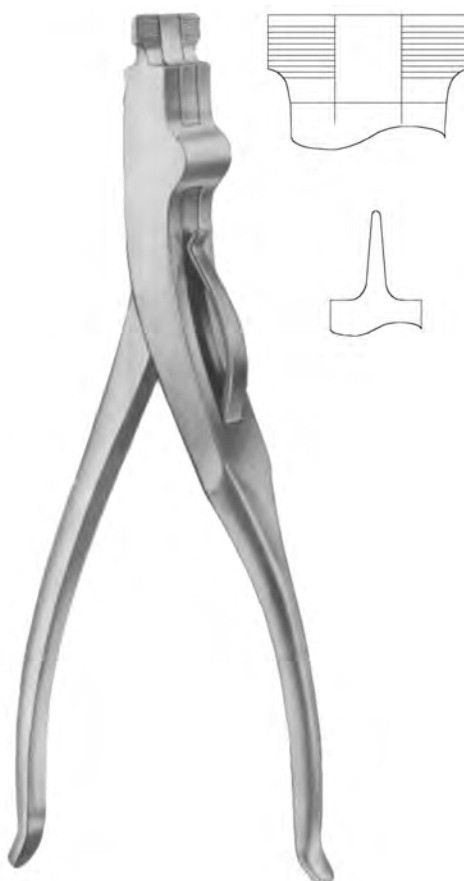
HENNING
400-520 270mm, 10 3/4"



400-520
400-530



BEESON
400-530 300mm, 12"



USA
400-515 230mm, 9"



410-090
170mm, 6 3/4"



410-092
160mm, 6 1/4"



WILLIGER
410-112
160mm, 6 1/4"



WILLIGER
410-114
160mm, 6 1/4"



410-119
160mm, 6 1/4"



KOENIG
410-116
150mm, 6"



KOENIG
410-117
150mm, 6"



SEBILEAU
410-120
170mm, 6 3/4"



Mc DONALD
410-160
190mm, 7 1/2"



WATSON-CHEYNE
410-165
175mm, 6 7/8"



ALDERDYCE
470-930
210mm, 8 1/4"

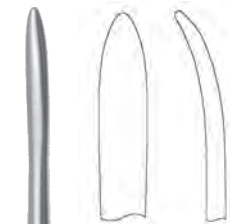


CAIRNS
410-121
175mm, 6 3/4"



WATSON-CHEYNE
180-450 - 180-451

6mm



Hohlheft
Hollow Handle
Mango Hueco
Manche Creux



QUERVAIN
410-130
200mm, 8"

8mm

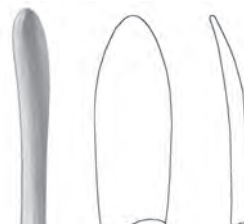


Hohlheft
Hollow Handle
Mango Hueco
Manche Creux



LANGENBECK
410-132
200mm, 8"

10mm



Hohlheft
Hollow Handle
Mango Hueco
Manche Creux



LANGENBECK
410-134
200mm, 8"

11mm



LANGENBECK
410-128
230mm, 9"

6mm

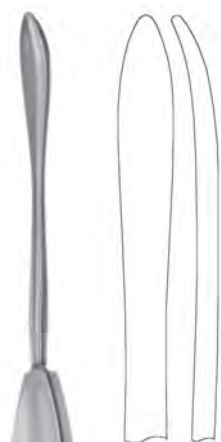


Vollergriff
Solid Handle
Mango Pleno
Manche Massive



QUERVAIN
410-126
200mm, 8"

8mm



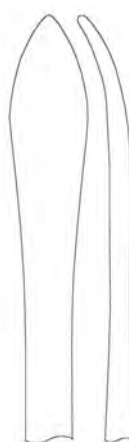
410-122
200mm, 8"

Vollergriff
Solid Handle
Mango Pleno
Manche Massive



LANGENBECK
410-122 - 410-124

10mm



410-124
200mm, 8"

5mm



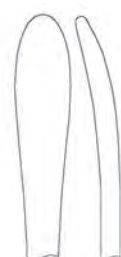
410-1291
170mm, 6 3/4"

8mm



410-1293
170mm, 6 3/4"

7mm



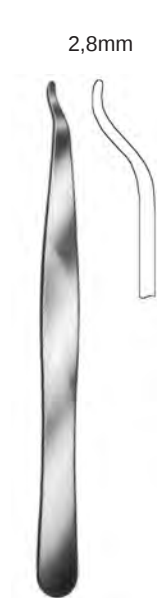
410-1292
170mm, 6 3/4"

10mm



410-1294
170mm, 6 3/4"

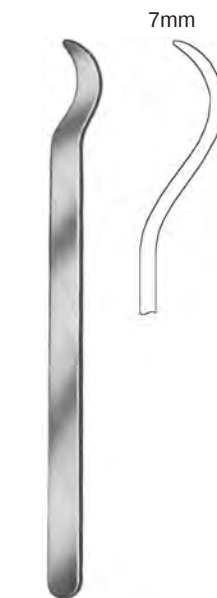
MINI-LANGENBECK
410-1291 - 410-1294



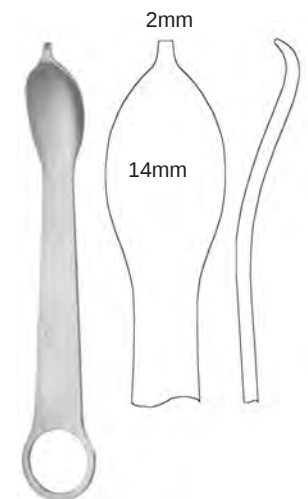
410-100
140mm, 5 1/2"



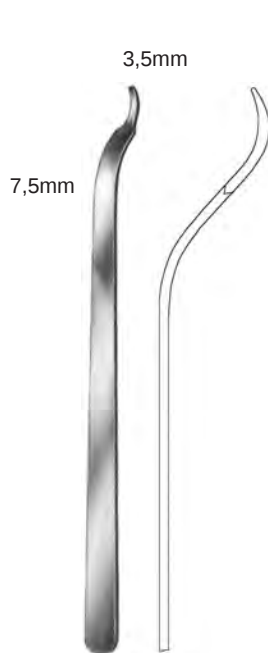
410-102
150mm, 6"



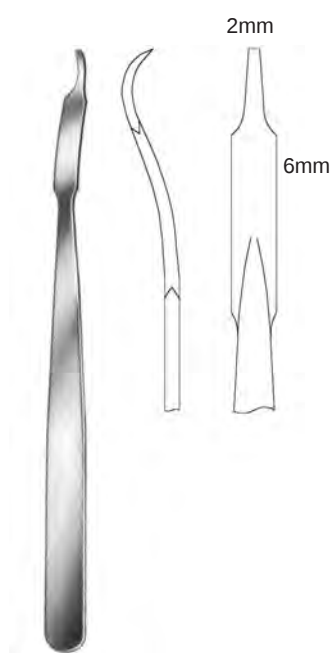
410-104
150mm, 6"



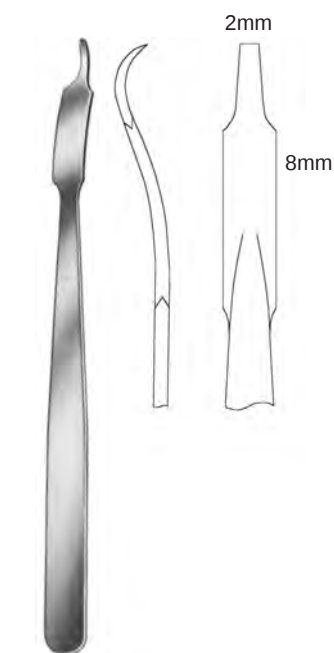
410-109
120mm, 5"



BUCK-GRAMCKO
410-107
150mm, 6"



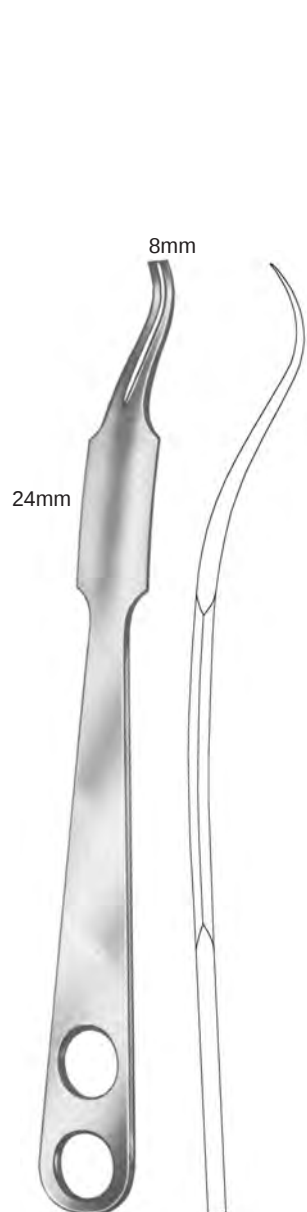
HOHMANN
410-105
160mm, 6 1/4"



HOHMANN
410-106
160mm, 6 1/4"



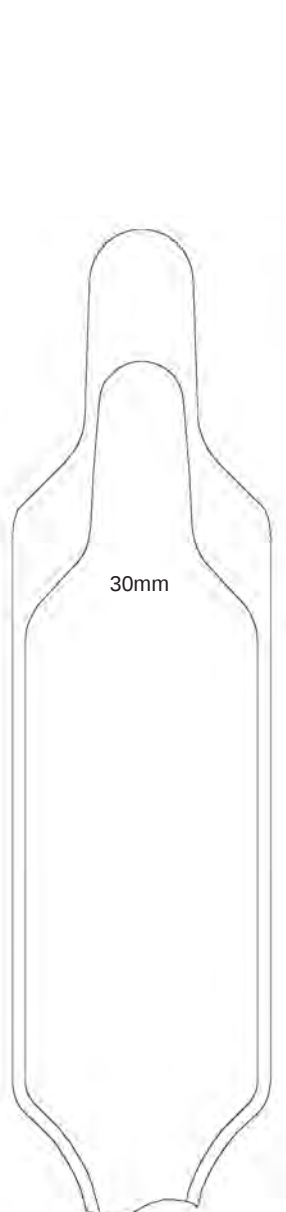
410-108
160mm, 6 1/4"



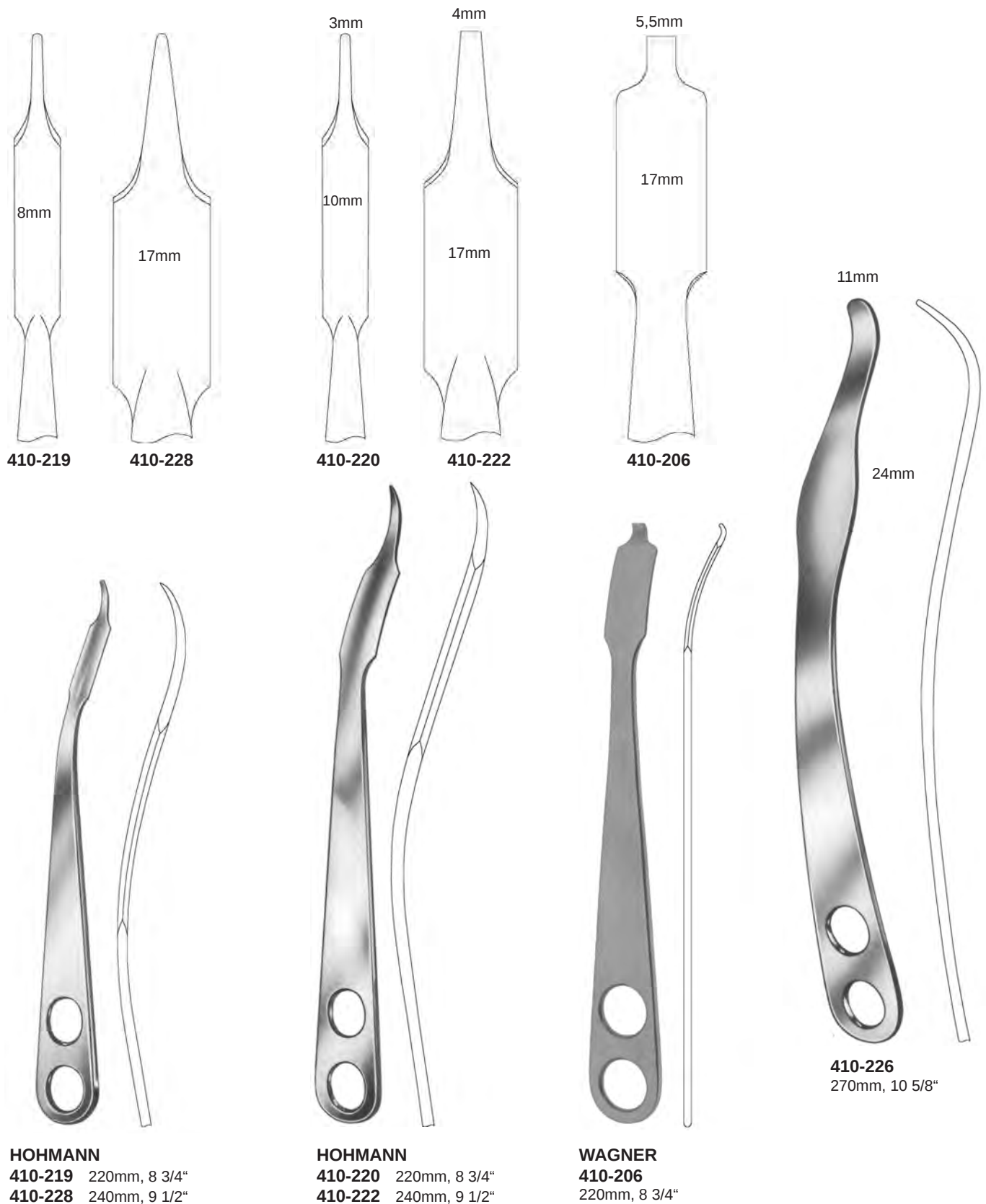
LANGE-HOHMANN
410-200
250mm, 10"

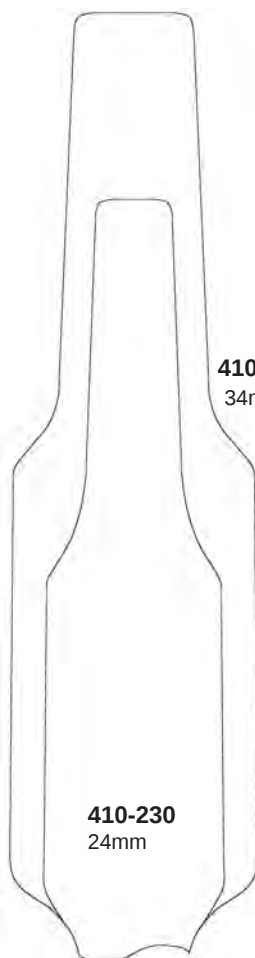
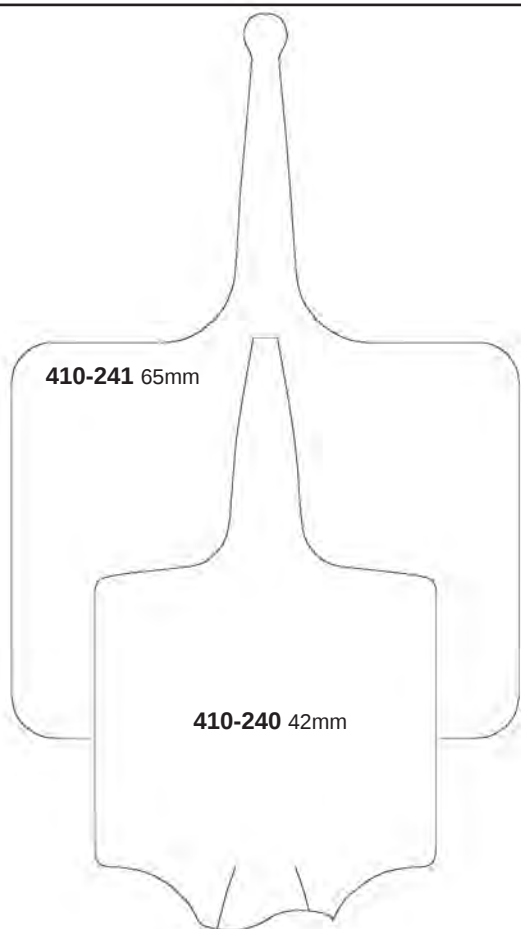


LANGE-HOHMANN
410-202
265mm, 10 1/2"



LANGE-HOHMANN
410-204
290mm, 11 1/2"





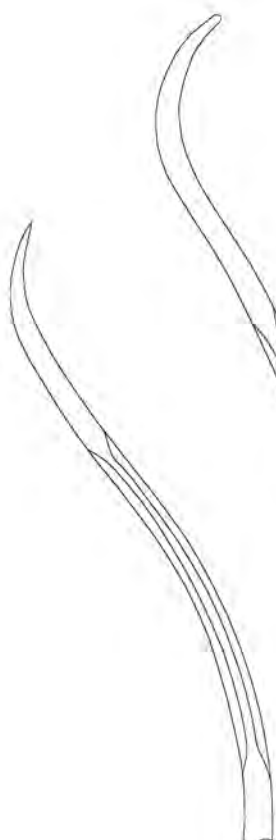
410-230

410-231

HOHMANN

410-230 260mm, 10 1/4"

410-231 290mm, 11 1/2"



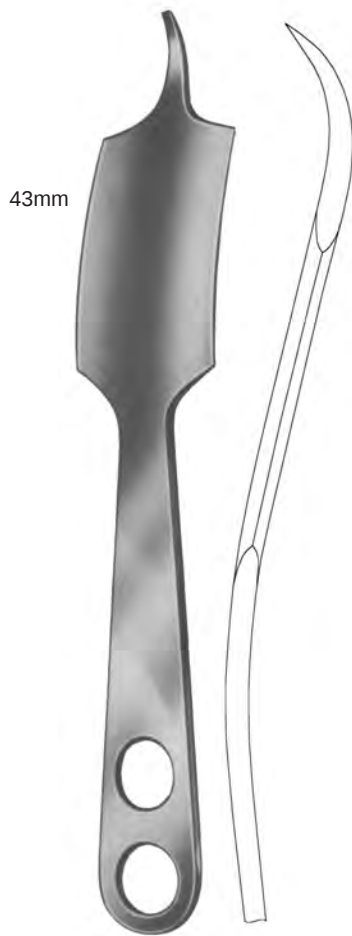
410-240

410-241

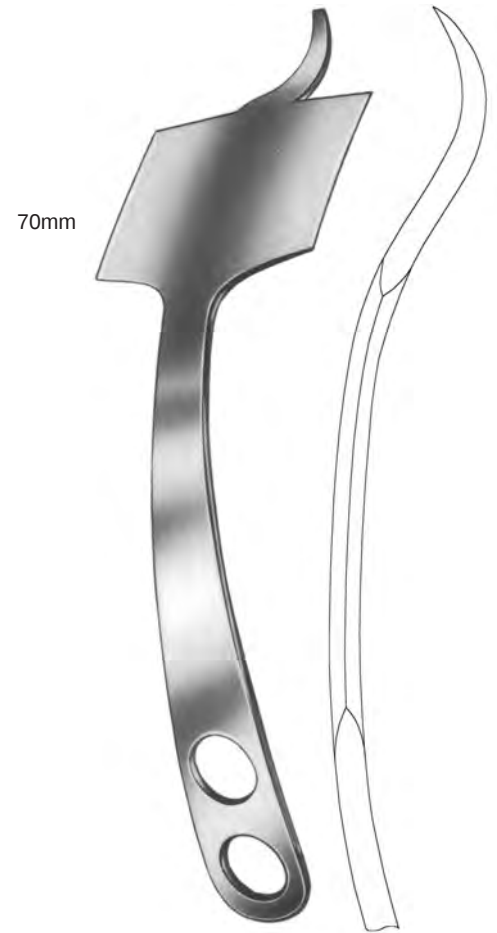
VERBRUGGE

410-240 240mm, 9 1/2"

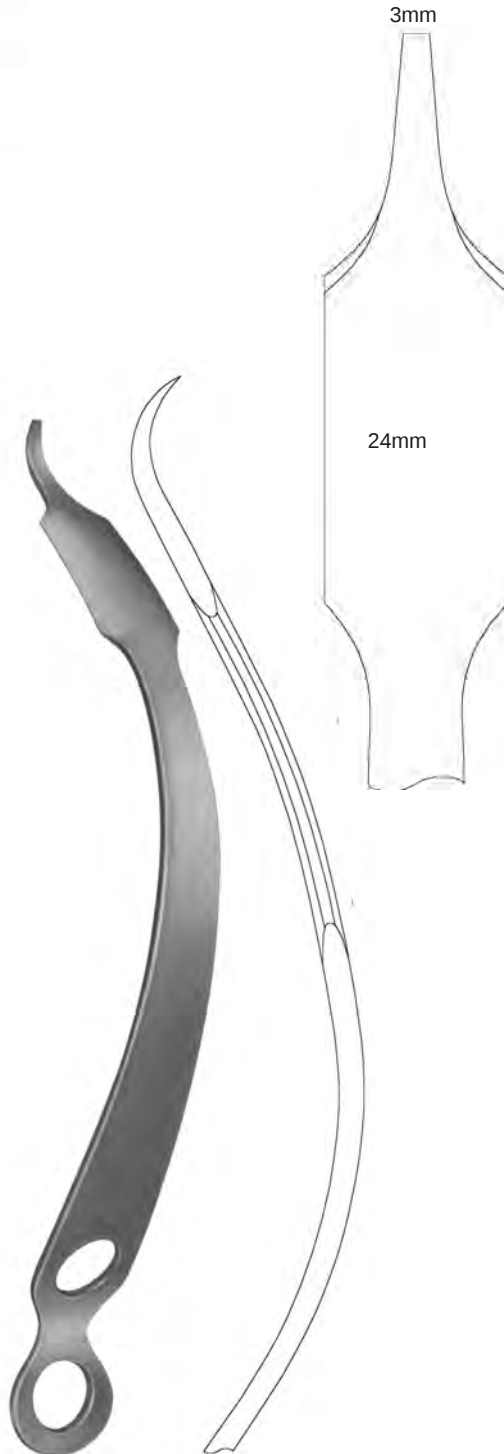
410-241 255mm, 10"



HOHMANN
410-244
245mm, 9 3/4"



HOHMANN
410-246
250mm, 10"



HOHMANN
410-210
270mm, 10 3/4"



**LANE-
THRETHOWAN**
410-256
215mm, 8 1/2"

WATSON-JONES
410-251
280mm, 11"

LANE
410-253
265mm, 10 1/2"

LANE
410-254
255mm, 10"

BRISTOW
410-359 180mm, 7"
410-360 230mm, 9"

BLOUNT
410-262
265mm, 10 1/2"

410-285

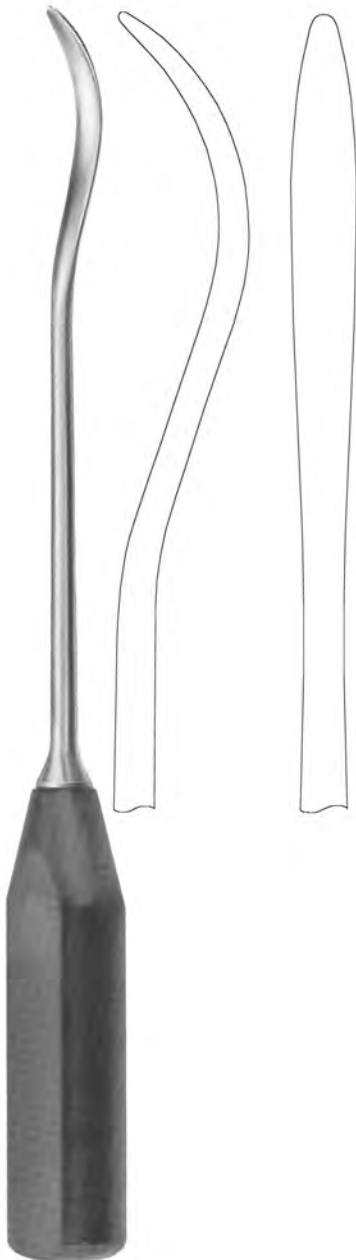
glatt, smooth, lisa, lisse
spitz, pointed, agudo, pointu

410-286

gerieft, serrated, estriada, strié
stumpf, blunt, romo, mousse

410-287

glatt, smooth, lisa, lisse
stumpf, blunt, romo, mousse



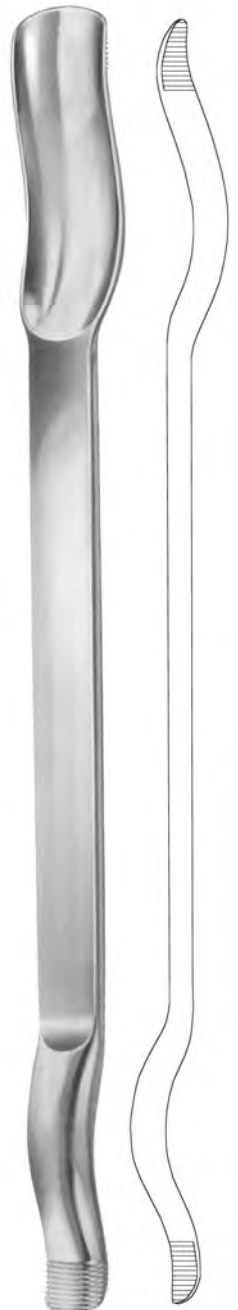
WAGNER
410-265
330mm, 13"



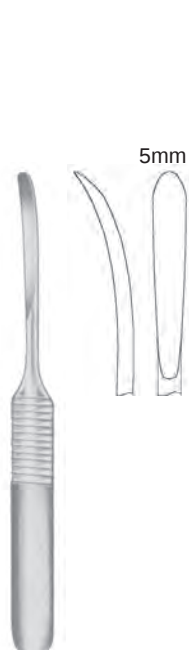
BENNET
410-270 44mm
410-271 64mm
255mm



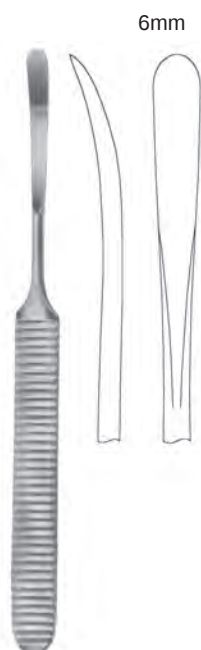
AUFRANC-COBRA
410-285 - 410-287
280mm, 11"



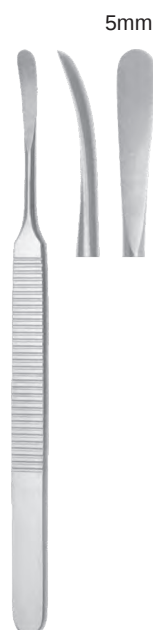
MURPHY-LANE
410-196 30/19mm
310mm, 12 1/4"



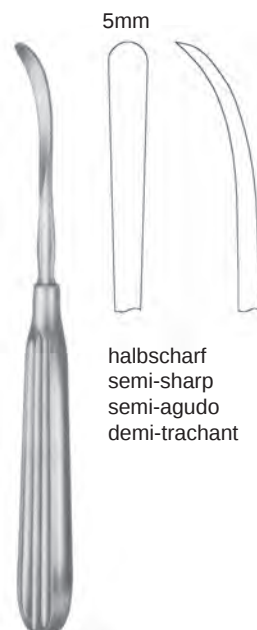
WILLIGER
410-300
130mm, 5"



WILLIGER
410-302
160mm, 6 1/4"



KÖNIG
410-306
155mm, 6"



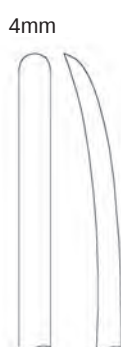
LOVE-ADSON
340-966
170mm, 6 3/4"



ADSON
340-954
165mm, 6 1/2"



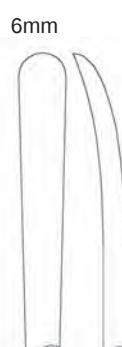
CUSHING
340-912 - 340-915



340-912
175mm, 7"



340-913
175mm, 7"



340-914
195mm, 7 3/4"



340-915
195mm, 7 3/4"



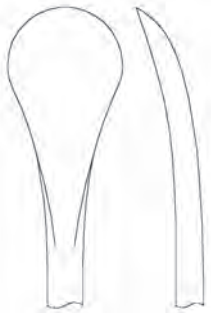
HOEN
340-950 - 340-952

7mm



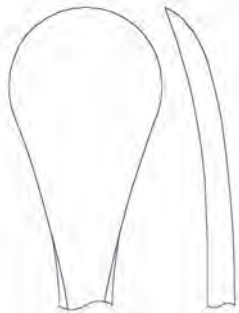
340-950
175mm, 7 1/4"

15mm



340-951
185mm, 7 1/4"

20mm



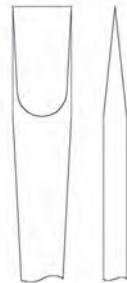
340-952
190mm, 7 1/2"

voller Griff
solid handle
mango pleno
manche massive



CUSHING
340-929
170mm, 6 3/4"

8mm



voller Griff
solid handle
mango pleno
manche massive

6mm



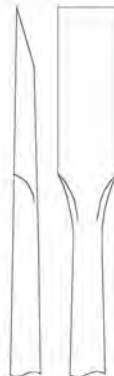
CUSHING
340-910
150mm, 6"
(Little Joker)

6mm



PENNYBAKER
340-935
165mm, 6 1/2"

8mm



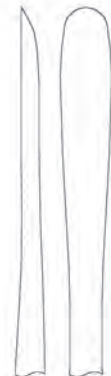
340-960
scharf
sharp
agudo
trachant

7mm



340-961
stumpf
blunt
romo
mousse

7mm

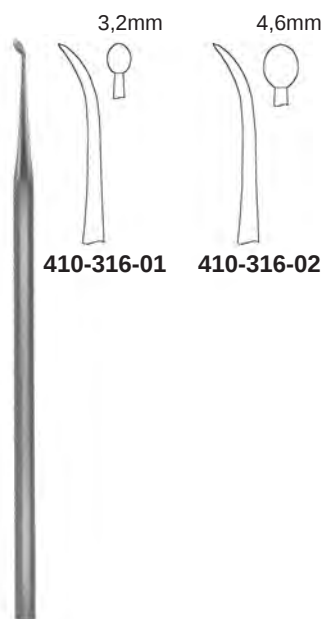


340-962
halbscharf
semi-sharp
semi-agudo
demi trachant

7mm



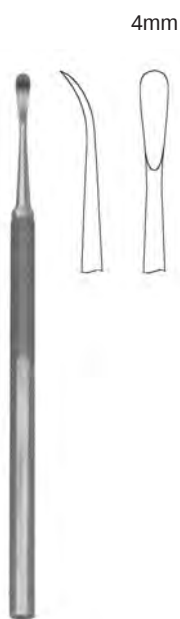
340-963
halbscharf
semi-sharp
semi-agudo
demi tachant



410-316-01

410-316-02

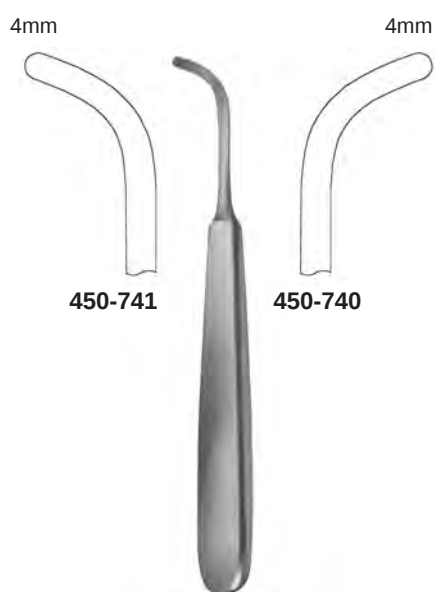
PARTSCH
410-316-01 - 410-316-02
150mm, 6"



PARTSCH
410-315
145mm, 5 3/4"



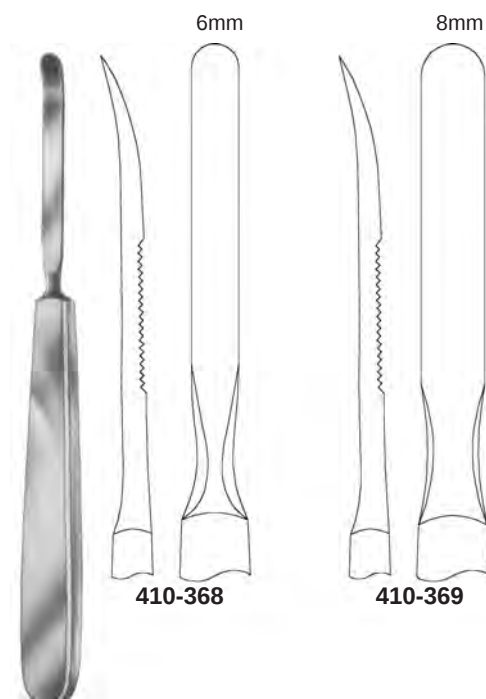
WARD
440-614
170mm, 6 3/4"



450-741

450-740

ROSE
450-740 - 450-741
140mm, 5 1/2"



410-368

410-369

PLESTER
410-368 - 410-369
170mm, 6 3/4"



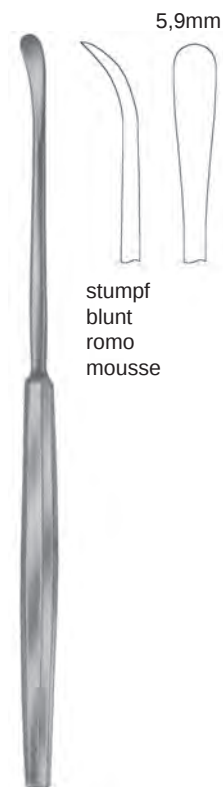
HALLE
440-611 160mm, 6 1/4"
440-612 180mm, 7"

stumpf
blunt
romo
mousse



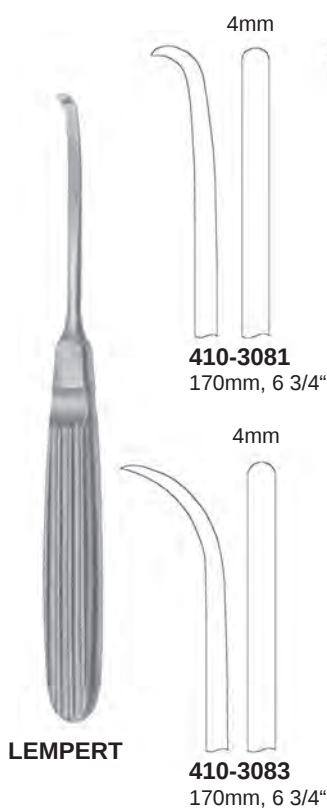
ST CLAIR THOMPSON
440-636 160mm, 6 1/4" scharf
sharp
agudo
trachant
440-637 stumpf
blunt
romo
mousse

4mm



SEWALL
440-618 200mm, 8 "

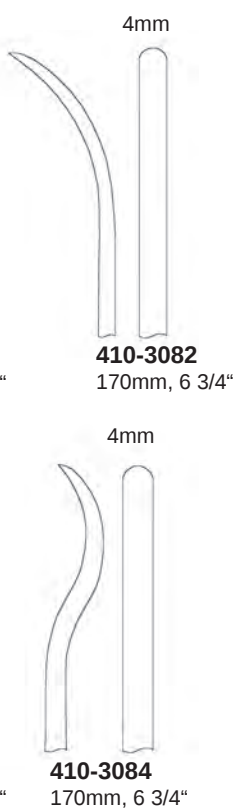
stumpf
blunt
romo
mousse



LEMPERT

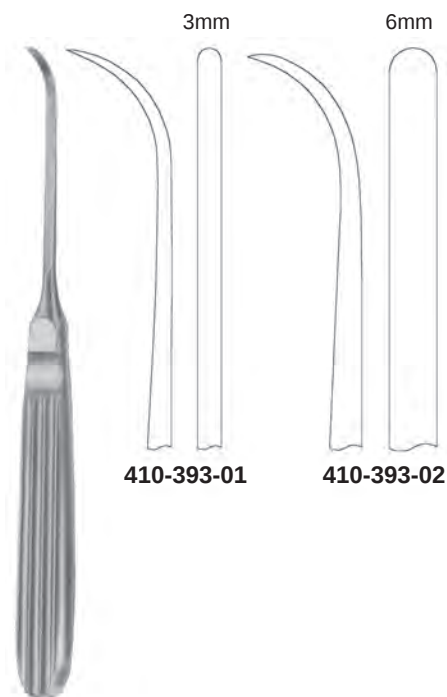
410-3081
170mm, 6 3/4"

410-3083
170mm, 6 3/4"



410-3082
170mm, 6 3/4"

410-3084
170mm, 6 3/4"



410-393-01 - 410-393-02
170mm, 6 3/4"

410-393-01

410-393-02

4,5mm



FREER

440-615

440-616

190mm, 7 1/2"

scharf
sharp
agudo
aigu

stumpf
blunt
romo
mousse

4,5mm



FREER

440-620

185mm, 7 1/4"

440-621

200mm, 8"

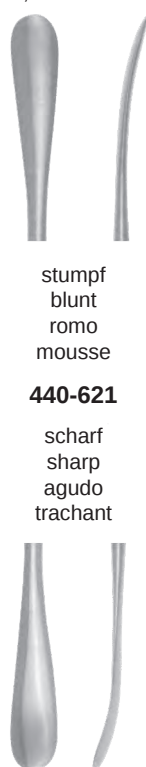
stumpf
blunt
romo
mousse
440-620
scharf
sharp
agudo
trachant

stumpf
blunt
romo
mousse

440-621

scharf
sharp
agudo
trachant

6,5mm



OBWEGGESER-FREER

452-270

210mm, 8 1/4"

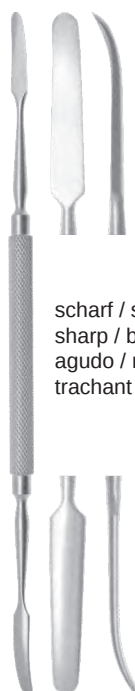
452-271

205mm, 8"

stumpf
blunt
romo
mousse
452-270
stumpf
blunt
romo
mousse

stumpf
blunt
romo
mousse
452-271
scharf
sharp
agudo
trachant

4mm



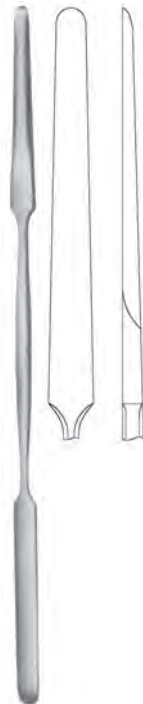
KILLIAN

440-603

180mm, 7"

scharf / stumpf
sharp / blunt
agudo / romo
trachant / mousse

4,5mm



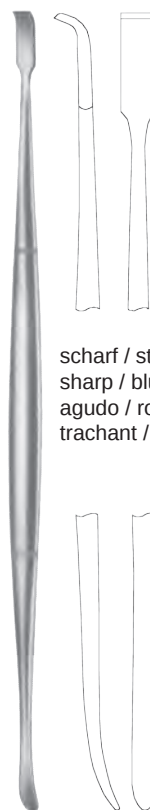
KILLIAN

440-602

185mm, 7 1/4"

scharf / stumpf
sharp / blunt
agudo / romo
trachant / mousse

5,5mm



HOWARTH

440-626

215mm, 8 1/2"

scharf / stumpf
sharp / blunt
agudo / romo
trachant / mousse

4,5mm

3mm



FREER-YASARGIL

440-627

185mm, 7 1/4"

scharf
sharp
agudo
trachant

4,5mm



scharf-scharf
sharp-sharp
agudo-agudo
tranchant-tranchant

COTTLE
450-733 230mm, 9"

4mm



COTTLE-McKENTY
450-732 220mm

4mm

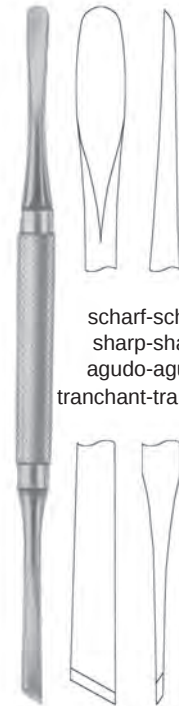


stumpf
blunt
romo
mousse

scharf
sharp
agudo
tranchant

5mm

HILL
440-660
220mm, 8 3/4"



scharf-scharf
sharp-sharp
agudo-agudo
tranchant-tranchant

MEAD
440-666
165mm, 6 1/4"



scharf-scharf
sharp-sharp
agudo-agudo
tranchant-tranchant

MOLT
440-665
180mm, 7"

8mm



scharf
sharp
agudo
trachant

COTTLE
450-708
195mm, 7 3/4"

4,7mm



LANDOLT
410-313
175mm, 7"



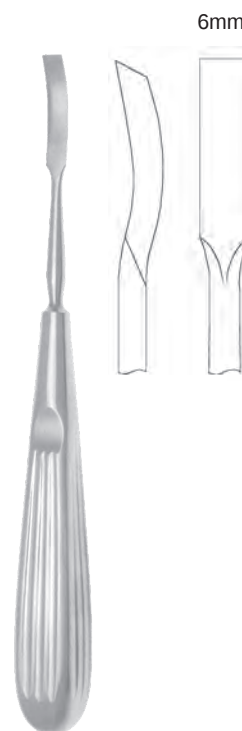
JOSEPH
450-698
160mm, 6 1/4"



JOSEPH
450-706
160mm, 6 1/4"



JOSEPH
450-707
180mm, 7"



LEMPERT
431-517
180mm, 7"



LEMPERT
431-515
205mm, 8"



450-700



450-701



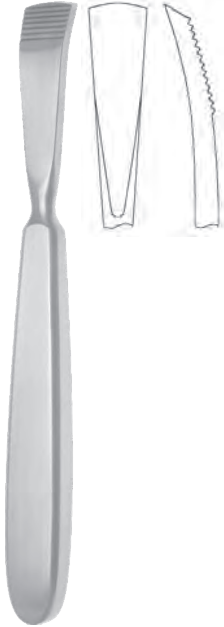
450-702



450-703

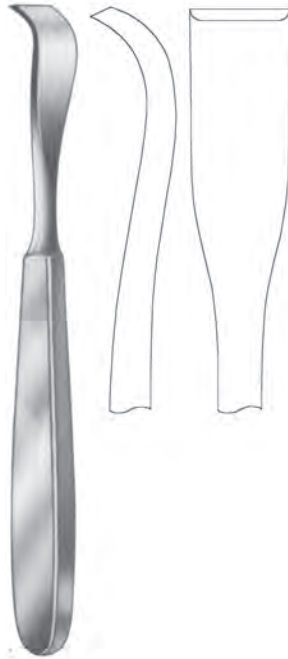
LEMPERT
450-700 - 450-703
170mm, 6 3/4"

15mm



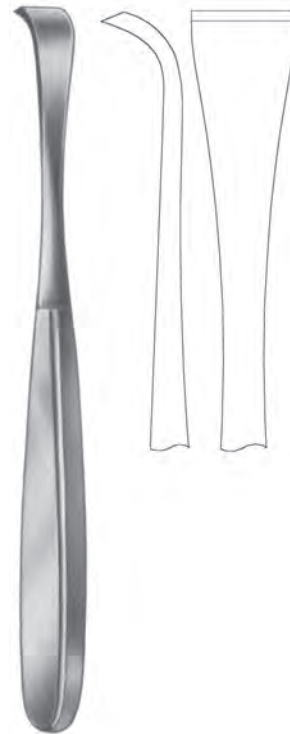
JANSEN
410-324
165mm, 6 1/2"

13mm



SCHNEIDER
410-325
175mm, 7"

13mm



SCHNEIDER-SAUERBRUCH
410-327
190mm, 7 1/2"

18mm



SEDILLOT
410-345
185mm, 7 1/4"

14mm



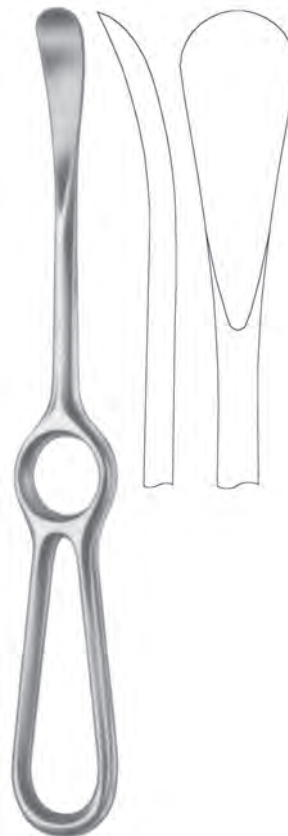
LANGENBECK
410-342
180mm, 7"

16mm



LANGENBECK
410-340
190mm, 7 1/2"

15mm



SEDILLOT
410-346
210mm, 8 1/4"

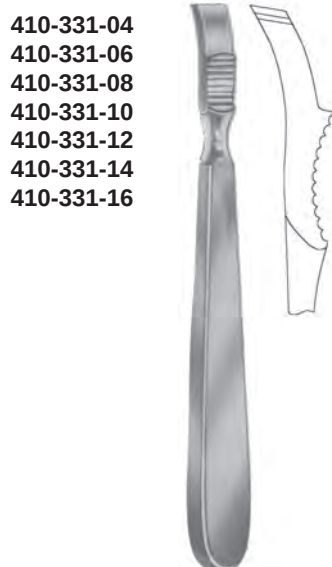
11mm



MCKISSOCK
410-395
195mm, 7 3/4"



	A mm
410-330-04	4
410-330-06	6
410-330-08	8
410-330-10	10
410-330-12	12
410-330-14	14
410-330-16	16



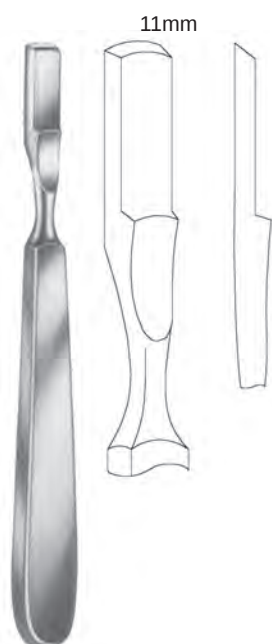
410-331-04
410-331-06
410-331-08
410-331-10
410-331-12
410-331-14
410-331-16



FARABEUF
410-330-04 - 410-330-16
150mm, 6"

FARABEUF
410-331-04 - 410-331-16
150mm, 6"

MITCHELLS
410-318
210mm, 8 1/4"



FARABEUF-COLLIN
410-336
160mm, 6 1/4"



FARABEUF-COLLIN
410-337
160mm, 6 1/4"



410-320
190mm, 7 1/2"



LAMBOTTE
410-350 5mm
410-351 10mm
410-352 15mm
410-353 20mm
410-354 25mm
215mm, 8 1/2"



6mm



410-151

170mm, 6 3/4"

10mm



410-152

190mm, 7 1/2"

13mm



410-153

190mm, 7 1/2"

19mm



410-155

200mm, 8"

25mm



410-156

210mm, 8 1/4"

KEY
410-151 - 410-156



COBB
410-144 8mm
410-145 10mm
410-146 12mm
280mm, 11"



COBB
410-147 4mm
410-148 6mm
410-149 8mm
270mm, 10 3/4"



COBB
410-140 10mm
410-141 13mm
410-142 19mm
410-143 25mm
240mm, 9 1/2"



410-384
190mm, 7 1/2"



410-385
185mm, 7 1/4"



410-382
185mm, 7 1/4"



410-383
185mm, 7 1/4"



410-388
190mm, 7 1/2"



410-380
200mm, 8"



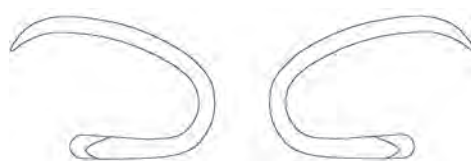
410-381
190mm, 7 1/2"



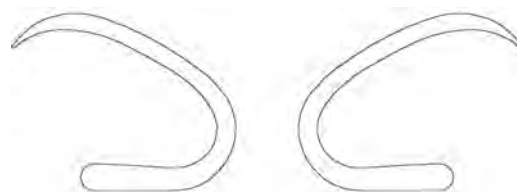
410-387
200mm, 8"



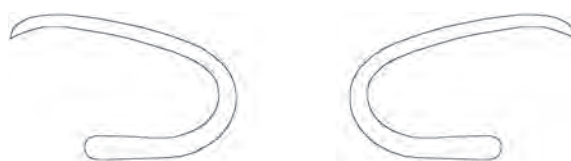
DOYEN
251-136 **251-137**
240mm, 9 1/2"



251-132 für Kinder
for children
para niños
pour enfants **251-133**



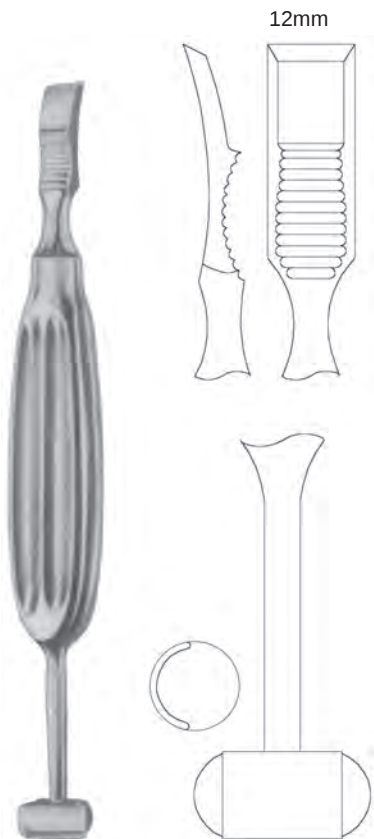
251-134 **251-135**



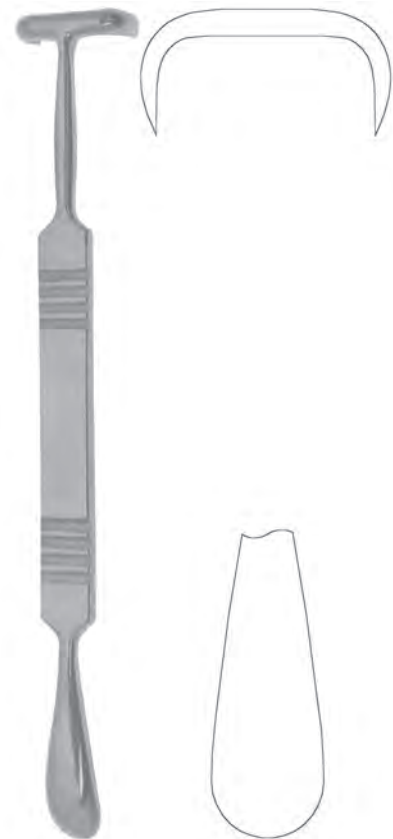
251-136 linksgebogen
left curved
curvo a la izquierda
courbé à gauche **251-137**
rechtsgebogen
right curved
curvo a la derecha
courbé à droite



DOYEN
251-132 **251-133**
251-134 **251-135**
175mm, 7"



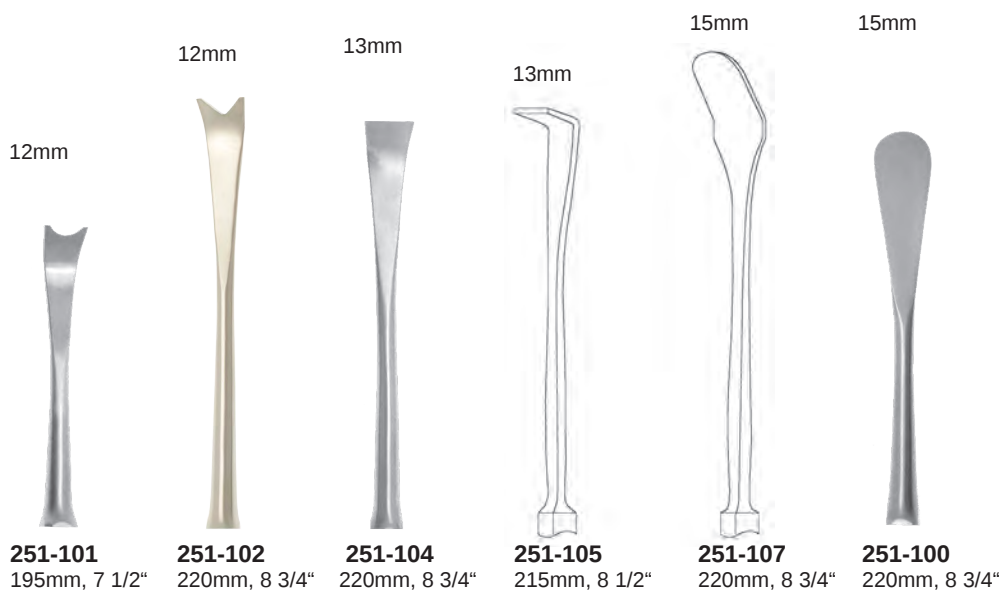
ALEXANDER-FARABEUF
251-122
210mm, 8 1/4"



MATSON
251-140
220mm, 8 3/4"



SEMB
251-100 - 251-107





410-400
245mm, 9 5/8"



PUTTI
410-410
270mm, 10 5/8"



PUTTI
410-411
300mm, 12"

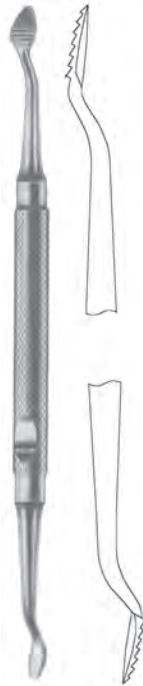


410-420
280mm, 11"



410-402
220mm, 8 3/4"

8mm



5mm

MILLER
410-432
180mm, 7"

6mm



4,3mm

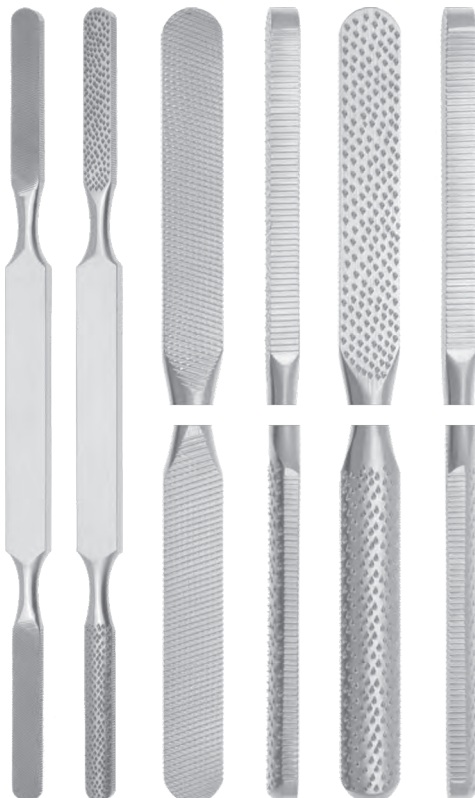
MILLER
410-431
180mm, 7"

6mm



5mm

MILLER
410-430
180mm, 7"



FOMON (KLEINERT KUTZ)
450-548
210mm, 8 1/4"



FOMON-MASING
450-540
210mm, 8 1/4"



FOMON-MASING
450-542
210mm, 8 1/4"



FOMON
450-590 12/14
450-591 16/20
450-592 24/30
450-593 36/44
450-594 52/64
 205mm, 8"



450-590

450-591

450-592

450-593

450-594

Hartmetalleinlagen
 Tungsten carbide inlays
 Insertos de carburo tungsteno
 Insert de carbure tungstène

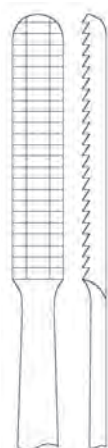
- Fig.1 grob / coarse / grueso / grosse
 12 Zähne / 12 teeth / 12 dientes / 12 dents
- Fig.2 grob / coarse / grueso / grosse
 14 Zähne / 14 teeth / 14 dientes / 14 dents
- Fig.3 grob / coarse / grueso / grosse
 16 Zähne / 16 teeth / 16 dientes / 16 dents
- Fig.4 mittel / medium / mediano / moyen
 20 Zähne / 20 teeth / 20 dientes / 20 dents
- Fig.5 mittel / medium / mediano / moyen
 24 Zähne / 24 teeth / 24 dientes / 24 dents

- Fig.6 mittel / medium / mediano / moyen
 30 Zähne / 30teeth / 30 dientes / 30 dents
- Fig.7 fein / fine / fino / fine
 36 Zähne / 36 teeth / 36 dientes / 36 dents
- Fig.8 fein / fine / fino / fine
 44 Zähne / 44 teeth / 44 dientes / 44 dents
- Fig.9 fein / fine / fino / fine
 52 Zähne / 52 teeth / 52 dientes / 52 dents
- Fig.10 fein / fine / fino / fine
 62 Zähne / 62 teeth / 62 dientes / 62 dents



450-518

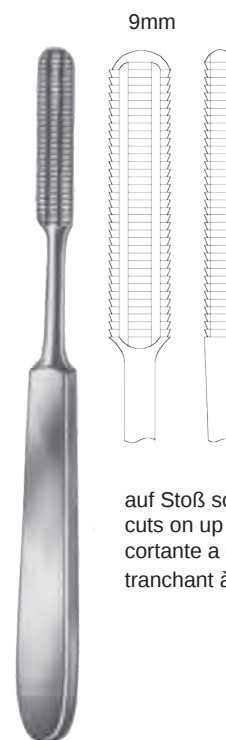
auf Zug schneidend
cuts on down stroke
cortante a tracción
tranchant à traction



450-519

auf Stoß schneidend
cuts on up stroke
cortante a empuje
tranchant à impact

MALTZ
450-518 - 450-519
175mm, 7"



MALTZ
450-510
180mm, 7"

auf Stoß schneidend
cuts on up stroke
cortante a empuje
tranchant à impact



450-530

auf Zug schneidend
cuts on down stroke
cortante a tracción
tranchant à traction

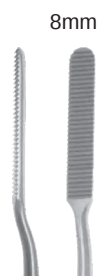
9mm



450-531

auf Stoß schneidend
cuts on up stroke
cortante a empuje
tranchant à impact

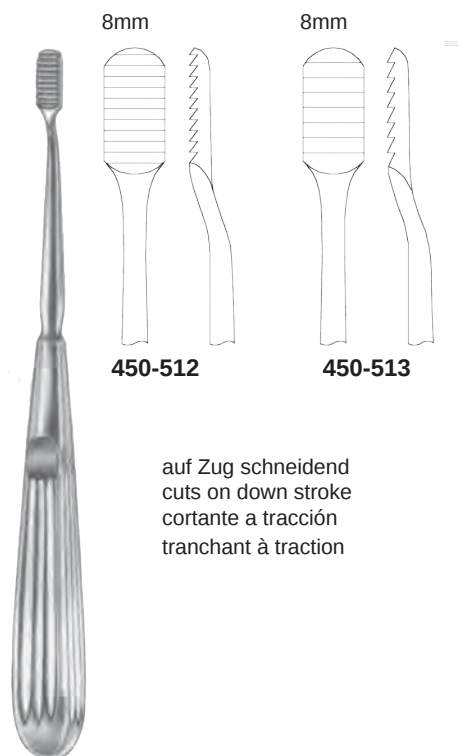
AUFRICHT
450-530 210mm, 8 1/4"
450-531 210mm, 8 1/4"



8mm

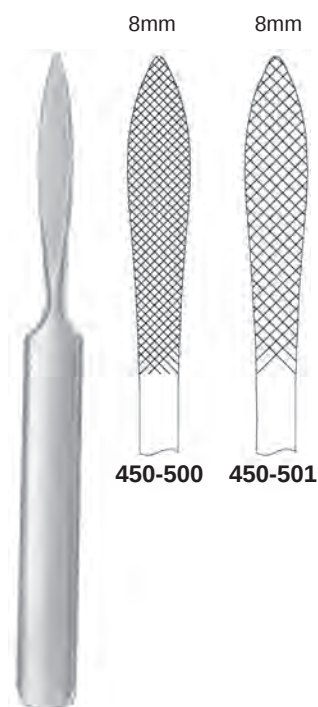
auf Zug schneidend
cuts on down stroke
cortante a tracción
tranchant à traction

COTTLE
450-520
210mm, 8 1/4"



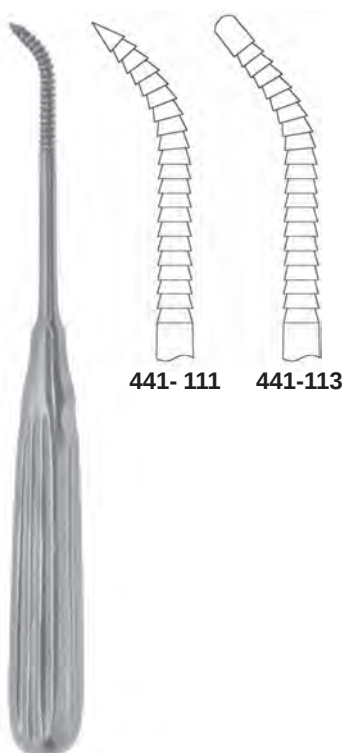
auf Zug schneidend
cuts on down stroke
cortante a tracción
tranchant à traction

LEWIS
450-512 - 450-513
180mm, 7"

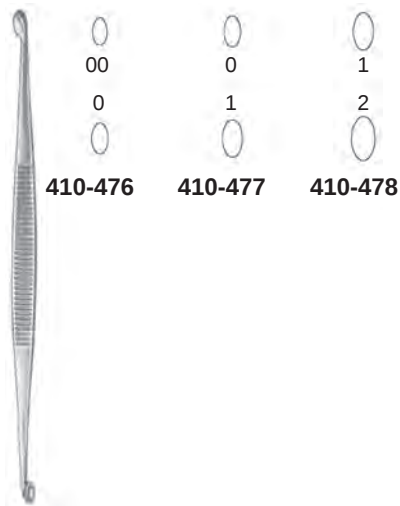


JOSEPH
450-500 - 450-501
160mm, 6 1/4"

Ø 5mm Ø 5mm



WIENER
441-111 - 441-113
180mm, 7"



WILLIGER

410-476 Fig. 00/0

410-477 Fig. 0/1

410-478 Fig. 1/2
135mm, 5 1/4"



HOUSE

170mm

431-480-01 rund / round / redonda / ronde

431-481-01 oval / oval / oval / ovale

431-481-02 oval / oval / oval / ovale

431-481-03 oval / oval / oval / ovale

431-481-04 oval / oval / oval / ovale

431-482-01 rund / round / redonda / ronde

Ø1,0mm / Ø1,2mm
0,8x1,0mm / 1,0x1,2mm
1,1x1,5mm / 1,3x1,8mm
1,5x2,2mm / 1,9x2,6mm
2,3x3,1mm / 2,5x3,3mm



VOLKMANN

410-480 135mm, 5 1/4"

410-481 145mm, 5 3/4"

410-482 170mm, 6 3/4"



VOLKMANN

410-490

130mm, 5"



VOLKMANN

410-492

160mm, 6 1/4"



VOLKMANN

410-494

200mm, 8"



JACOBSON
410-460
140mm, 5 1/2"



JANSEN
410-462
160mm, 6 1/4"



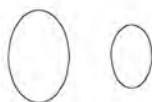
BARTH
410-498
180mm, 7"



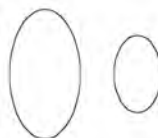
VOLKMANN
410-496
210mm, 8 1/4"



410-485



410-486



410-487

VOLKMANN
410-485 - 410-487
220mm, 8 5/8"



VOLKMANN
410-540 - 410-549
170mm, 6 3/4"



VOLKMANN
410-5740 - 410-5769 170mm, 6 3/4"
410-5770 - 410-5786 270mm, 10 3/4"

2,8mm



0000

410-540
410-5740
410-5770

3,6mm



000

410-541
410-5741
410-5771

4,4mm



00

410-542
410-5742
410-5772

5,2mm



0

410-543
410-5743
410-5773

6,8mm



1

410-544
410-5744
410-5774

8,5mm



2

410-545
410-5745
410-5775

10mm



3

410-546
410-5746
410-5776

11,5mm



4

410-547
410-5747

13mm



5

410-548
410-5748

14,5mm



6

410-549
410-5749



BRUNS
410-510 - 410-519
170mm, 6 3/4"

2mm



0000

410-510

3mm



000

410-511

4mm



00

410-512

5mm



0

410-513

6mm



1

410-514

8mm



2

410-515

10mm



3

410-516

12mm



4

410-517

13mm



5

410-518

15mm



6

410-519



SPRATT
441-290 - 441-297
170mm, 6 3/4"

2,0mm	2,3mm	3,0mm	3,4mm	4,0mm
0000	000	00	0	1
441-290	441-291	441-292	441-293	441-294

5,5mm	6,2mm	7,0mm
2	3	4
441-295	441-296	441-297



SIMON
410-5711 - 410-5713
240mm, 9 1/2"

2,4mm
0000
410-5710

3,2mm
000
410-5711

4,2mm
00
410-5712

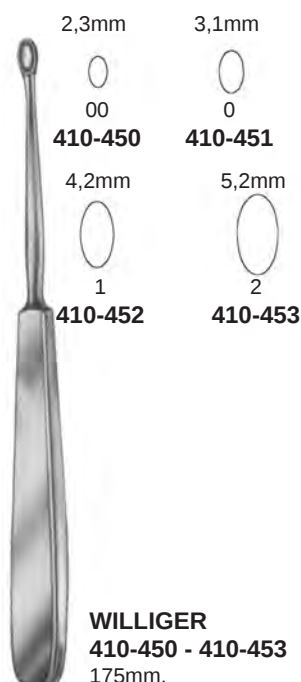
5,2mm
0
410-5713



2,5mm	3,4mm	4,2mm	5,2mm	6,3mm
000	00	0	1	2
410-560	410-561	410-562	410-563	410-564

7,4mm	8,0mm
3	4
410-565	410-566

SCHEDE
410-560 - 410-566
170mm, 6 3/4"



WILLIGER
410-450 - 410-453
175mm,

2,3mm	3,1mm
00	0
410-450	410-451

4,2mm	5,2mm
1	2
410-452	410-453

2,5mm	3,0mm	3,5mm	4,0mm	5,0mm	6,0mm	8,0mm	9,0mm	10,5mm
								
000	00	0	1	2	3	4	5	6
410-520	410-521	410-522	410-523	410-524	410-525	410-526	410-527	410-528
410-530	410-531	410-532	410-533	410-534	410-535	410-536	410-537	410-538
341-620	341-621	341-622	341-623	341-624	341-625	341-626	341-627	341-628
341-630	341-631	341-632	341-633	341-634	341-635	341-636	341-637	341-638



SPINAL
341-620 - 341-628
200mm, 8"



SPINAL
341-630 - 341-638
200mm, 8"



BRUNS
410-520 - 410-528
230mm, 9"



BRUNS
410-530 - 410-538
230mm, 9"



CASPAR
414-734 4mm
414-735 5mm
250mm, 10"
mit 1 Zahn
with 1 tooth
con 1 diente
avec 1 dent



CASPAR
414-743 3mm
414-744 4mm
270mm, 10 3/4"
mit 1 Zahn
with 1 tooth
con 1 diente
avec 1 dent



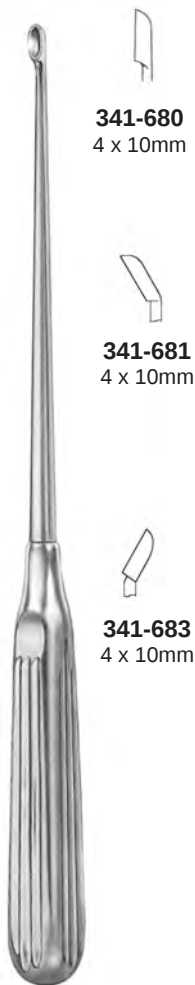
CASPAR
414-754 4mm
414-755 5mm
414-755 6mm
220mm, 8 3/4"
mit 1 Zahn
with 1 tooth
con 1 diente
avec 1 dent



CASPAR
414-643 3,6mm
414-644 4,4mm
414-645 5,2mm
220mm, 8 3/4"



CASPAR
414-653 3,6mm
414-654 4,4mm
414-655 5,2mm
220mm, 8 3/4"



341-680
4 x 10mm



341-681
4 x 10mm



341-683
4 x 10mm

SCOVILLE
341-680 - 341-683
250mm, 10"



410-583
3,6mm



410-584
4,4mm



410-585
5,2mm



410-586
6,8mm

410-583 - 410-586
250mm, 10"



410-593
3,6mm



410-594
4,4mm



410-595
5,2mm



410-596
6,8mm

410-593 - 410-596
250mm, 10"



410-618
200mm, 8"

Kopf Ø 30mm
head Ø 30mm
cabeza Ø 30mm
tete Ø 30mm

Gewicht 220g
weight 220g
peso 220g
poids 220g



LUCAE
410-620
190mm, 7 1/2"

Kopf Ø 19mm
head Ø 19mm
cabeza Ø 19mm
tete Ø 19mm

Gewicht 230g
weight 230g
peso 230g
poids 230g

LUCAE
410-621
190mm, 7 1/2"

Kopf Ø 25mm
head Ø 25mm
cabeza Ø 25mm
tete Ø 25mm

Gewicht 260g
weight 260g
peso 260g
poids 260g



410-623
185mm, 7 1/2"

Kopf Ø 25mm
head Ø 25mm
cabeza Ø 25mm
tete Ø 25mm

Gewicht 185g
weight 185g
peso 185g
poids 185g

410-624

Ersatzbacken (Paar), Kunststoff
Spare Facings (pair), plastic
Tapas de repuesto (par), plastico
Plaques de rechange (paire), plastique



MEAD
410-625
190mm, 7 1/2"

Kopf Ø 27mm
head Ø 27mm
cabeza Ø 27mm
tete Ø 27mm

Gewicht 320g
weight 320g
peso 320g
poids 320g

410-626

Ersatzbacken (Paar), Kunststoff
Spare Facings (pair), plastic
Tapas de repuesto (par), plastico
Plaques de rechange (paire), plastique



DOYEN
410-628
210mm, 8 1/4"

Kopf Ø 30mm
head Ø 30mm
cabeza Ø 30mm
tete Ø 30mm

Gewicht 180g
weight 180g
peso 180g
poids 180g

DOYEN
410-629
210mm, 8 1/4"

Kopf Ø 35mm
head Ø 35mm
cabeza Ø 35mm
tete Ø 35mm

Gewicht 260g
weight 260g
peso 260g
poids 260g



mit Bleifüllung
lead filled
con relleno de plomo
remplissage de plomb

410-604
190mm, 7 1/2"

Kopf Ø 22mm
head Ø 22mm
cabeza Ø 22mm
tete Ø 22mm

Gewicht 165g
weight 165g
peso 165g
poids 165g



HEATH
410-606
185mm, 7 1/4"

Kopf Ø 40mm
head Ø 40mm
cabeza Ø 40mm
tete Ø 40mm

Gewicht 600g
weight 600g
peso 600g
poids 600g

HEATH
410-607
190mm, 7 1/2"

Kopf Ø 45mm
head Ø 45mm
cabeza Ø 45mm
tete Ø 45mm

Gewicht 1000g
weight 1000g
peso 1000g
poids 1000g



mit Bleifüllung
lead filled
con relleno de plomo
remplissage de plomb

410-608
165mm, 6 1/2"

Kopf Ø 20mm
head Ø 20mm
cabeza Ø 20mm
tete Ø 20mm

Gewicht 140g
weight 140g
peso 140g
poids 140g



mit Bleifüllung
lead filled
con relleno de plomo
remplissage de plomb

WILLIGER
410-613
240mm, 9 1/2"

Kopf Ø 28mm
head Ø 28mm
cabeza Ø 28mm
tete Ø 28mm

Gewicht 340g
weight 340g
peso 340g
poids 340g



WILLIGER
410-614
240mm, 9 1/2"

Kopf Ø 30mm
head Ø 30mm
cabeza Ø 30mm
tete Ø 30mm

Gewicht 400g
weight 400g
peso 400g
poids 400g



OMBREDANNE
410-660
250mm, 10"

Kopf Ø 40mm
head Ø 40mm
cabeza Ø 40mm
tete Ø 40mm

Gewicht 550g
weight 550g
peso 550g
poids 550g



PARTSCH
410-616
180mm, 7"

Kopf Ø 22mm
head Ø 22mm
cabeza Ø 22mm
tete Ø 22mm

Gewicht 200g
weight 200g
peso 200g
poids 200g



410-632

265mm, 10 1/2"

Kopf Ø 30mm
head Ø 30mm
cabeza Ø 30mm
tete Ø 30mm

Gewicht 450g
weight 450g
peso 450g
poids 450g



410-634

265mm, 10 1/2"

Kopf Ø 50mm
head Ø 50mm
cabeza Ø 50mm
tete Ø 50mm

Gewicht 900g
weight 900g
peso 900g
poids 900g



410-636

240mm, 9 1/2"

Kopf Ø 37mm
head Ø 37mm
cabeza Ø 37mm
tete Ø 37mm

Gewicht 370g
weight 370g
peso 370g
poids 370g



410-637

Ersatzbacken (Paar), Kunststoff
Spare Facings (pair), plastic
Tapas de repuesto (par), plastico
Plaques de rechange (paire), plastique



410-646

260mm, 10 1/4"

Kopf Ø 30mm
head Ø 30mm
cabeza Ø 30mm
tete Ø 30mm

Gewicht 450g
weight 450g
peso 450g
poids 450g



410-648

240mm, 9 1/2"

Kopf Ø 30mm	Gewicht 480g
head Ø 30mm	weight 480g
cabeza Ø 30mm	peso 480g
tete Ø 30mm	poids 480g



410-656

265mm, 10 1/2"

Kopf Ø 30/42mm	Gewicht 650g
head Ø 30/42mm	weight 650g
cabeza Ø 30/42mm	peso 650g
tete Ø 30/42mm	poids 650g



410-670

260mm, 10 1/4"

Kopf Ø 42mm	Gewicht 250g
head Ø 42mm	weight 250g
cabeza Ø 42mm	peso 250g
tete Ø 42mm	poids 250g

410-671

Kopf Ø 42mm	Gewicht 400g
head Ø 42mm	weight 400g
cabeza Ø 42mm	peso 400g
tete Ø 42mm	poids 400g

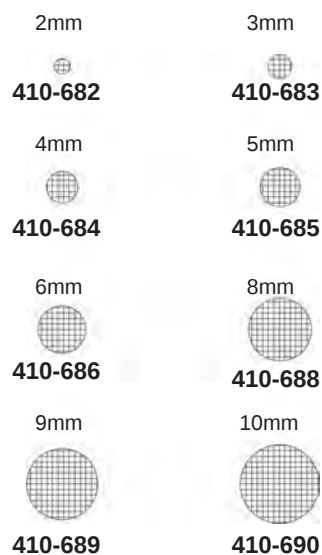
mit Bleifüllung
lead filled
con relleno de plomo
remplissage de plomb



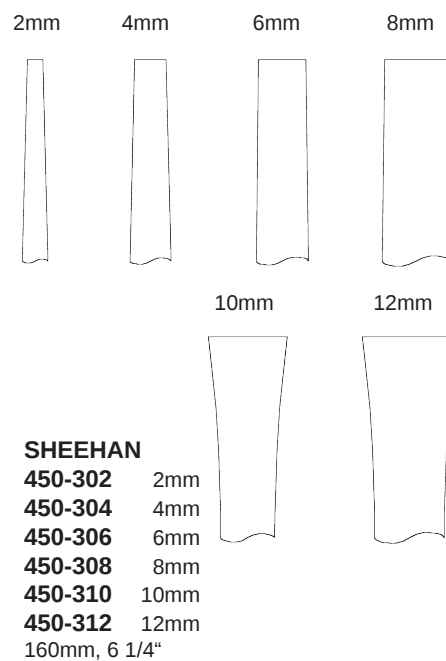
410-668

180mm, 7"

Kopf Ø 30mm	Gewicht 125g
head Ø 30mm	weight 125g
cabeza Ø 30mm	peso 125g
tete Ø 30mm	poids 125g



410-682 2mm
410-683 3mm
410-684 4mm
410-685 5mm
410-686 6mm
410-688 8mm
410-689 9mm
410-690 10mm
160mm, 6 1/4"



FREER
440-500
165mm, 6 1/2"



FREER
440-501
165mm, 6 1/2"



FREER
440-504
150mm, 6 1/2"



KILLIAN
440-591
160mm, 6 1/4"



KILIAN-CLAUS
440-593
160mm, 6 1/4"

2mm



3mm



4mm



5mm



6mm



PARTSCH

410-900 2mm
410-901 3mm
410-902 4mm
410-903 5mm
410-904 6mm
135mm, 5 1/4"



PARTSCH

410-930 2mm
410-931 3mm
410-932 4mm
410-933 5mm
410-934 6mm
170mm, 6 3/4"

2mm



3mm



4mm



5mm



6mm



PARTSCH

410-910 2mm
410-911 3mm
410-912 4mm
410-913 5mm
410-914 6mm
135mm, 5 1/4"



PARTSCH

410-940 2mm
410-941 3mm
410-942 4mm
410-943 5mm
410-944 6mm
170mm, 6 3/4"



410-960
4mm

410-961
6mm

410-962
8mm

410-963
10mm

410-964
12mm

410-965
14mm

ALEXANDER
410-960 - 410-965
180mm, 7"



410-970
4mm

410-971
6mm

410-972
8mm

410-973
10mm

410-974
12mm

410-975
14mm

ALEXANDER
410-970 - 410-975
180mm, 7"



BUCKLEY

411-2612 2mm
411-2613 3mm
411-2614 4mm
160mm, 6 1/4"

Hohlmeißel
GOUGES
GUBIAS
GOUGES



BUCKLEY

411-2602 2mm
411-2603 3mm
411-2604 4mm
160mm, 6 1/4"

Osteotome
Osteotomes
Osteotomos
Osteotomes



CARROLL

440-530 3mm
440-532 6mm
440-534 10mm
440-536 12mm
140mm, 5 1/2"

CARROLL

440-540 3mm
440-542 6mm
440-544 10mm
440-546 12mm
140mm, 5 1/2"



LUCAS

410-720-04 4mm
410-720-06 6mm
160mm, 6 1/4"



LUCAS

410-722-03 3mm
410-722-05 5mm
160mm, 6 1/4"



EASTGRINSTEAD

453-103 3mm
453-105 5mm
180mm, 7"



EASTGRINSTEAD

453-113 3mm
453-115 5mm
180mm, 7"



MINI-LAMBOTTE

411-200 2mm
411-201 3mm
411-202 4mm
411-203 6mm
411-204 8mm
411-205 10mm
411-206 12mm
411-207 15mm
125mm, 5"



MINI-LAMBOTTE

411-210 2mm
411-211 3mm
411-212 4mm
411-213 6mm
411-214 8mm
411-215 10mm
411-216 12mm
411-217 15mm
170mm, 6 3/4"



LAMBOTTE

411-220 4mm
411-221 6mm
411-222 8mm
411-223 10mm
411-224 13mm
411-225 16mm
411-226 18mm
411-227 20mm
411-228 25mm
411-229 30mm
411-230 38mm
411-231 44mm
411-232 50mm
240mm, 9 1/2"



LAMBOTTE

411-240 4mm
411-241 6mm
411-242 8mm
411-243 10mm
411-244 13mm
411-245 16mm
411-246 18mm
411-247 20mm
411-248 25mm
411-249 30mm
411-250 38mm
411-251 44mm
411-252 50mm
240mm, 9 1/2"



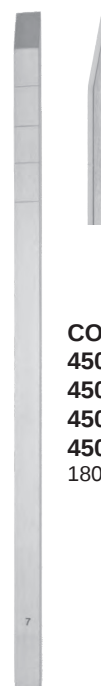
COTTLE

450-319 2mm
450-320 4mm
450-321 5mm
450-322 6mm
450-323 7mm
450-324 8mm
450-325 9mm
450-326 10mm
450-328 12mm
180mm, 7"



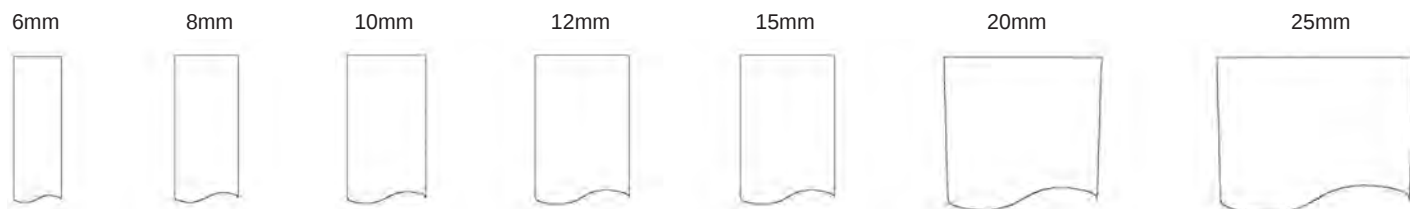
COTTLE

450-330 4mm
450-332 6mm
180mm, 7"



COTTLE

450-334 4mm
450-335 7mm
450-336 9mm
450-337 12mm
180mm, 7"



STILLE

410-796	6mm
410-798	8mm
410-800	10mm
410-802	12mm
410-804	15mm
410-806	20mm
410-808	25mm
200mm, 8"	



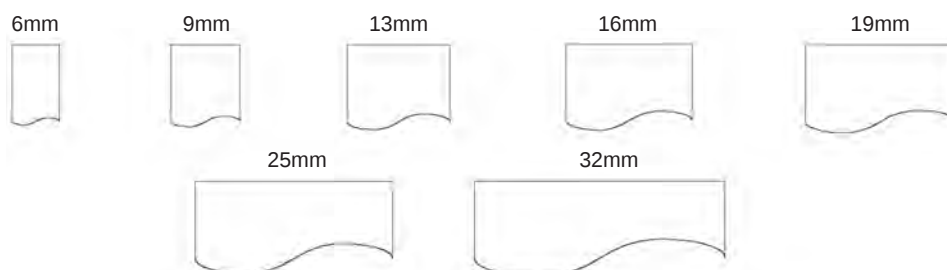
STILLE

410-816	6mm
410-818	8mm
410-820	10mm
410-822	12mm
410-824	15mm
410-826	20mm
410-828	25mm
200mm, 8"	



STILLE

410-836	6mm
410-838	8mm
410-840	10mm
410-842	12mm
410-844	15mm
410-846	20mm
410-848	25mm
200mm, 8"	



SMITH-PETERSON
411-162-06 6mm
411-162-09 9mm
411-162-13 13mm
411-162-16 16mm
411-162-19 19mm
411-162-25 25mm
411-162-32 32mm
200mm, 8"



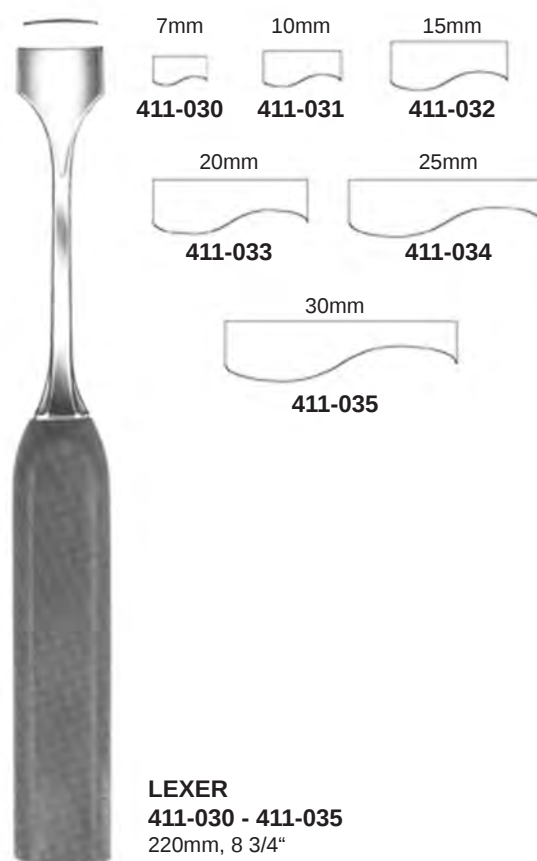
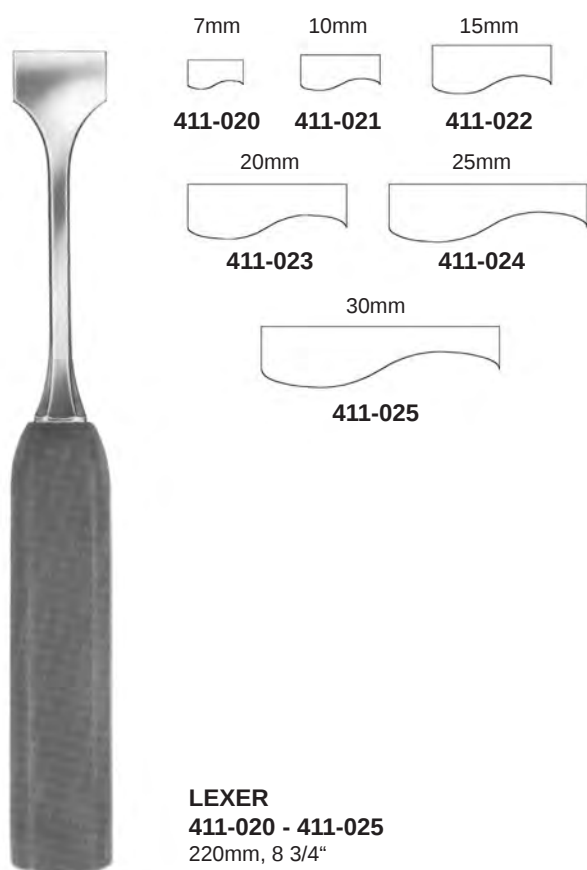
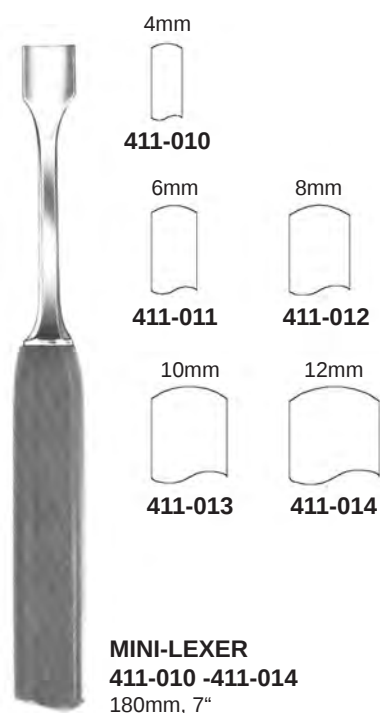
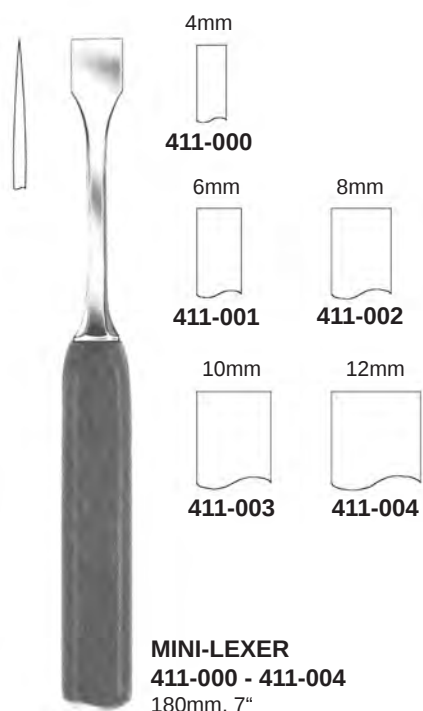
SMITH-PETERSON
411-163-06 6mm
411-163-09 9mm
411-163-13 13mm
411-163-16 16mm
411-163-19 19mm
411-163-25 25mm
411-163-32 32mm
200mm, 8"



SMITH-PETERSON
411-160-06 6mm
411-160-09 9mm
411-160-13 13mm
411-160-16 16mm
411-160-19 19mm
411-160-25 25mm
411-160-32 32mm
200mm, 8"



SMITH-PETERSON
411-161-06 6mm
411-161-09 9mm
411-161-13 13mm
411-161-16 16mm
411-161-19 19mm
411-161-25 25mm
411-161-32 32mm
200mm, 8"





411-2620 4mm
411-2622 6mm
411-2624 10mm
411-2626 15mm
411-2628 20mm,
200mm,



411-2621 4mm
411-2623 6mm
411-2625 10mm
411-2627 15mm
411-2629 20mm,
200mm,



5mm
411-050

10mm
411-052

15mm
411-054

LEXER
411-050 - 411-054
250mm, 10"



5mm
411-051

10mm
411-053

15mm
411-055

LEXER
411-051 - 411-055
250mm, 10"



COBB
411-080
280mm, 11"



COBB
411-081
280mm, 11"



COBB
411-082
280mm, 11"



COBB
411-083
280mm, 11"



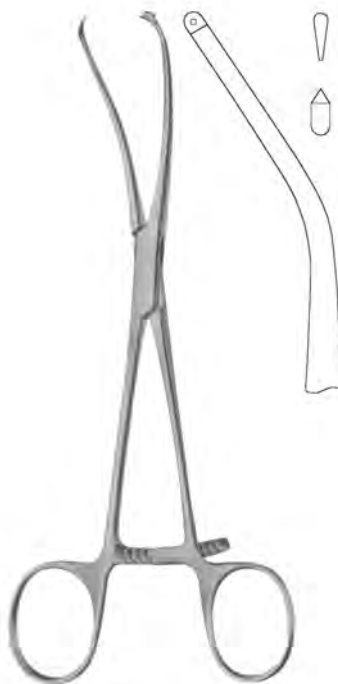
411-303
130mm, 5 1/4"



411-307
145mm, 5 3/4"



411-308
170mm, 6 3/4"



411-3046
170mm, 6 3/4"



411-313
205mm, 8"



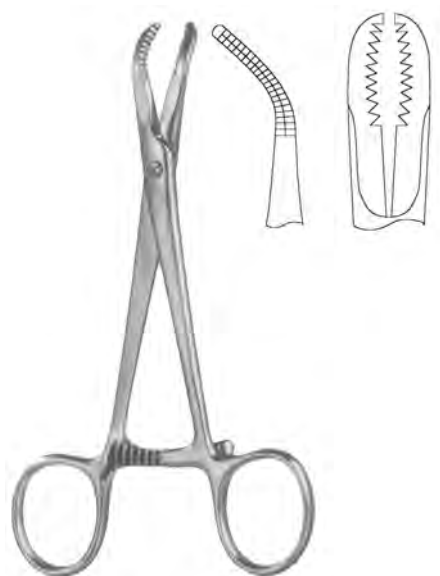
DINGMANN
411-310
190mm, 7 ½"



LEWIN
411-330
180mm, 7"



411-309
135mm, 5 ¼"



411-319
140mm, 5 ½"



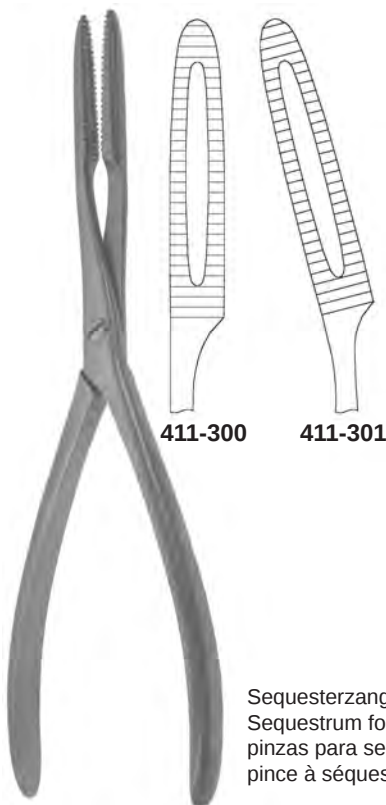
LANGENBECK
411-322
210mm, 8 1/4"



FERGUSON
411-324
210mm, 8 1/4"



411-320
200mm, 8"



411-300 200mm, 8"
411-301 200mm, 8"

Sequesterzange
Sequestrum forceps
pinzas para secuestro
pinces à séquestre



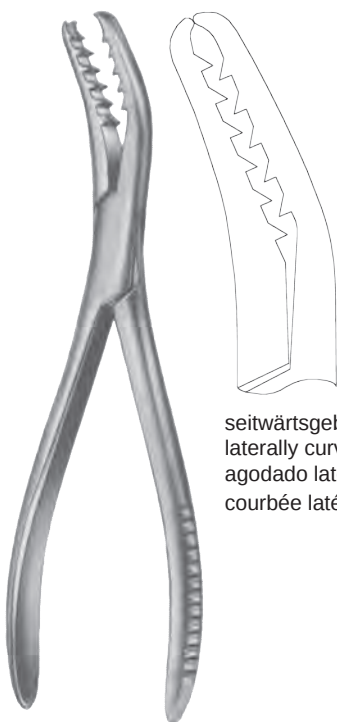
VAN BUREN
411-305
225mm, 8 3/4"

Sequesterzange
Sequestrum forceps
pinzas para secuestro
pinces à séquestre

max. Öffnung 15mm
max. opening 15mm
max. abertura 15mm
max. écartement 15mm



LAHEY
411-316
135mm, 5 ¼"

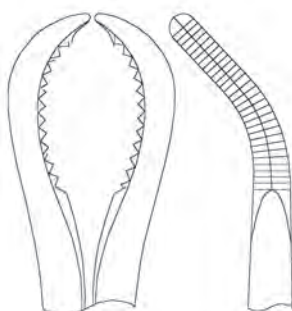


seitwärtsgebogen
laterally curved
agodado lateralmente
courbée latéralement

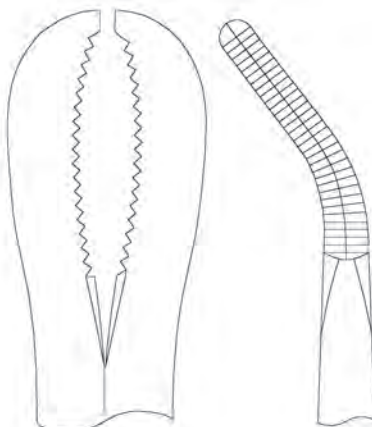
SEMB
250-900
190mm, 7 ½"



SEMB
250-901
190mm, 7 ½"

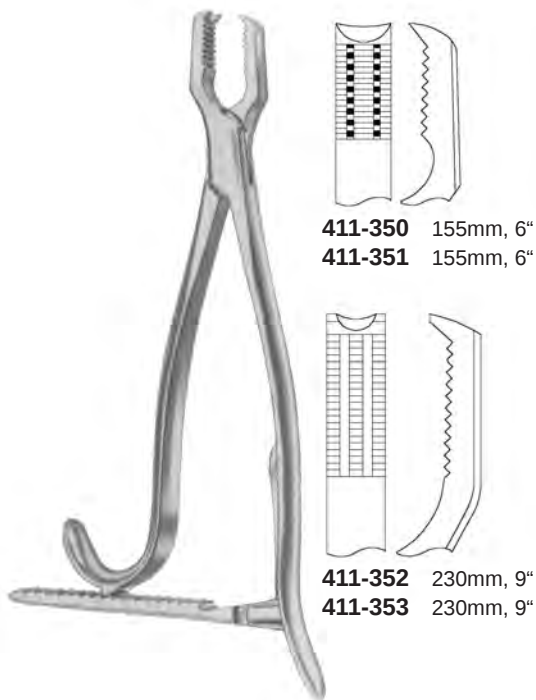


411-317



411-318

411-317 170mm, 6 ¾"
411-318 240mm, 9 ½"



411-350 155mm, 6"

411-351 155mm, 6"

411-352 230mm, 9"

411-353 230mm, 9"

KERN

411-350

411-352

ohne Sperre
without ratchet
sin cremallera
sans crémaillère

411-351

411-353

mit Sperre
with ratchet
con cremallera
avec crémaillère



LANE

411-356

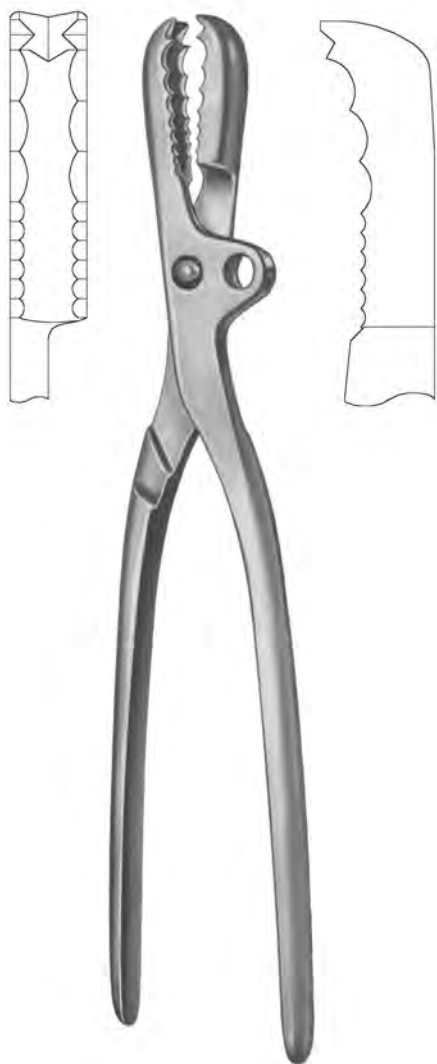
330mm, 13"

ohne Sperre
without ratchet
sin cremallera
sans crémaillère

411-357

330mm, 13"

mit Sperre
with ratchet
con cremallera
avec crémaillère



FARABEUF

411-341 230mm, 9"

411-342 260mm, 10 1/4"



FARABEUF-LAMBOTTE

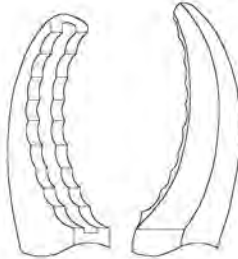
411-340 260mm, 10 1/4"



411-390
411-391



411-392
411-393



411-394
411-395



ULRICH
411-390 230mm, 9"
411-392 250mm, 10"
411-394 280mm, 11"



ULRICH
411-391 220mm, 8 3/4"
411-393 240mm, 9 1/2"
411-395 270mm, 10 3/4"



HEY-GROVES
411-345 200mm, 8"
411-346 250mm, 10"
411-347 305mm, 12"

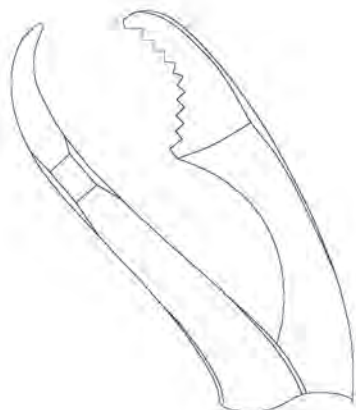
5mm



411-370

4mm

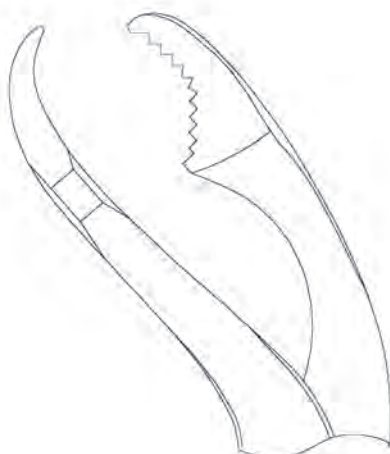
10mm



411-371

4,5mm

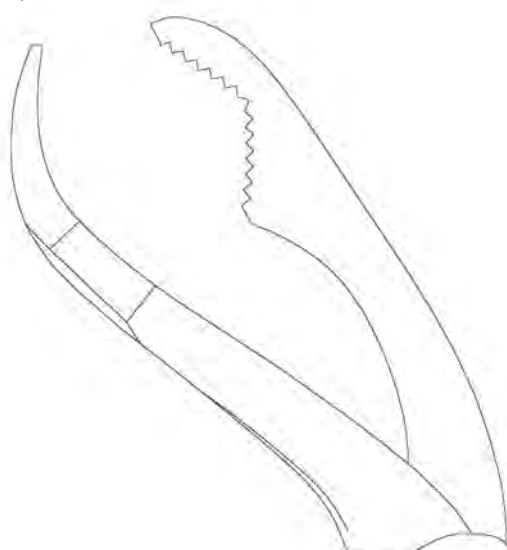
11mm



411-372

4,5mm

12mm



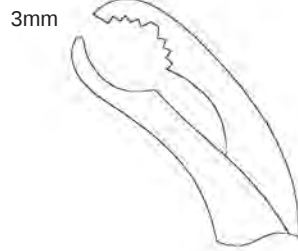
411-373



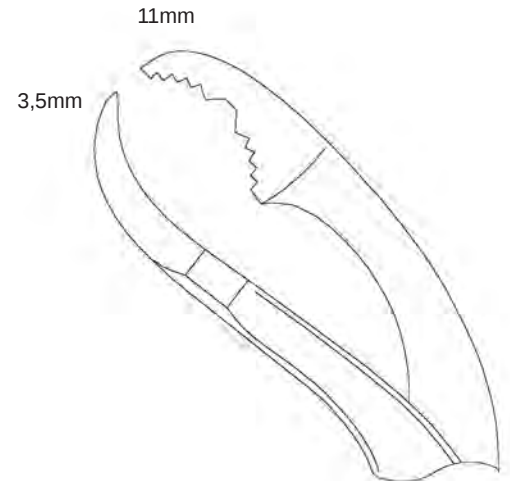
VERBRUGGE
411-370 175mm, 7"



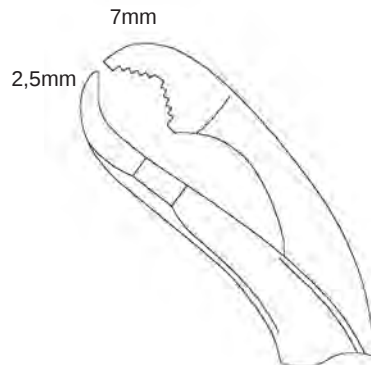
VERBRUGGE
411-371 255mm, 10"
411-372 265mm, 10 1/2"
411-373 275mm, 10 3/4"



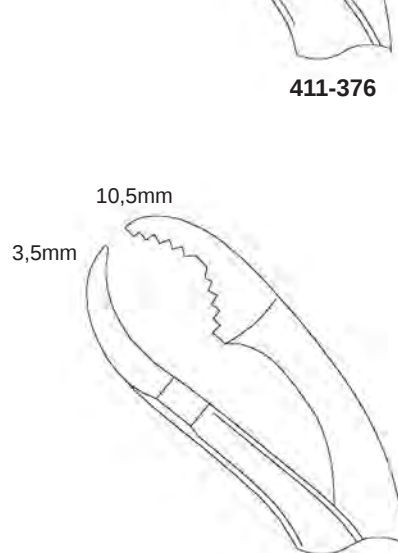
411-375



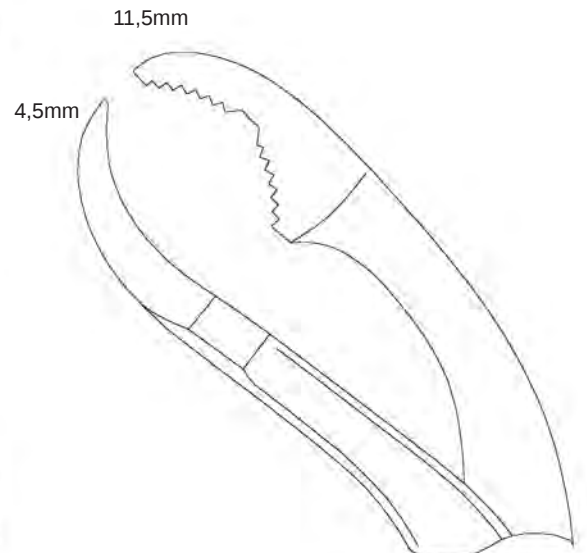
411-378



411-376



411-377



411-379

- 411-375** 150mm, 6"
- 411-376** 190mm, 7 1/2"
- 411-377** 240mm, 9 1/2"
- 411-378** 260mm, 10 1/4"
- 411-379** 280mm, 11"



LOWMAN

- 411-400** 120mm, 4 ¾"
- 411-401** 185mm, 7 ¼"
- 411-402** 200mm, 8"
- 411-403** 220mm, 8 ¾"



beweglich
movable
movible
mobile

LOWMAN-HOGLUND

- 411-411** 185mm, 7 ¼"
- 411-412** 200mm, 8"



GERSTER 411-450

Distraktionsklammer für Knochenklemmen.
Traction bar for Lowman bone clamps.
Barra de tracción para pinzas Lowman.
Tracteur pour daviers Lowman.



MINI FRIEDMANN
411-505 125mm, 5"



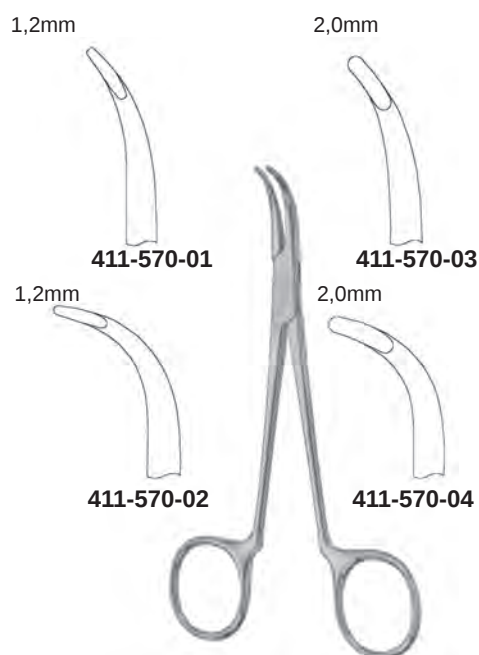
FRIEDMANN
411-507 135mm, 5 1/4"
411-509 135mm, 5 1/4"



LUER
411-539 145mm, 5 3/4"
411-541 145mm, 5 1/4"
411-543 145mm, 5 3/4"



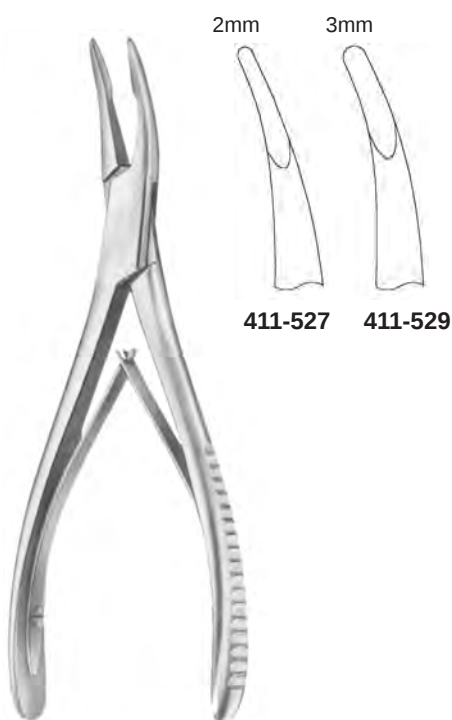
STELLBRINK
411-575 175mm, 6 3/4"
411-577 170mm, 6 3/4"



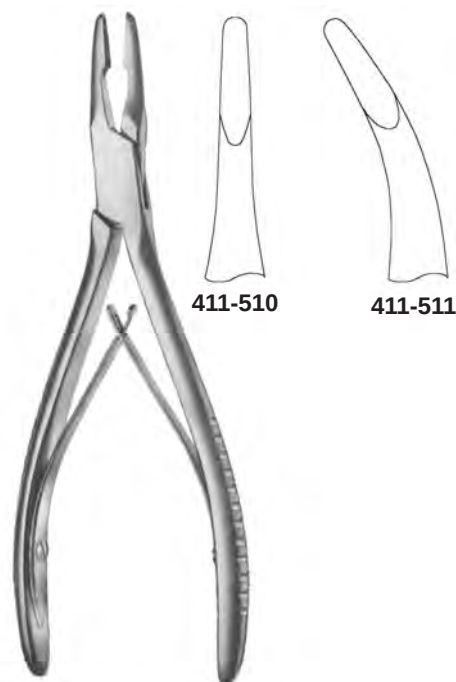
411-570-01 1,2mm
411-570-02 1,2mm
411-570-03 2,0mm
411-570-04 2,0mm
 130mm, 5 1/8"



HARTMANN
411-503 175mm, 6 7/8"



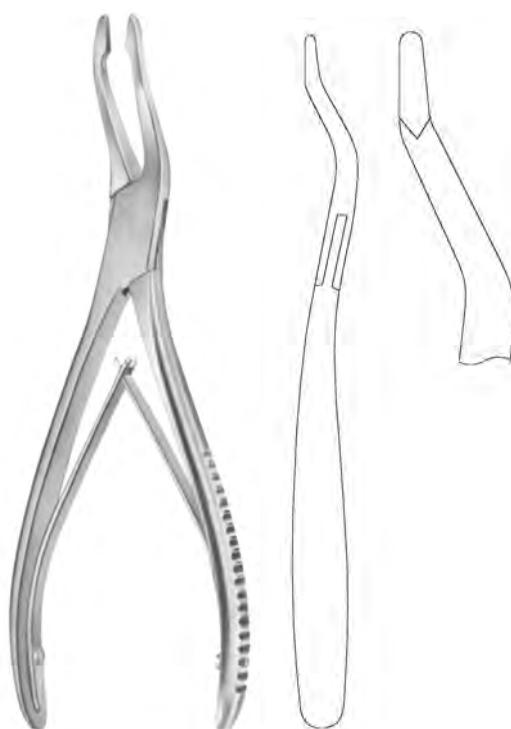
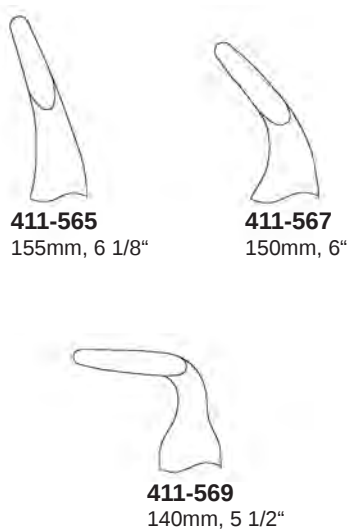
BEYER
411-527 175mm, 6 7/8"
411-529 175mm, 6 7/8"



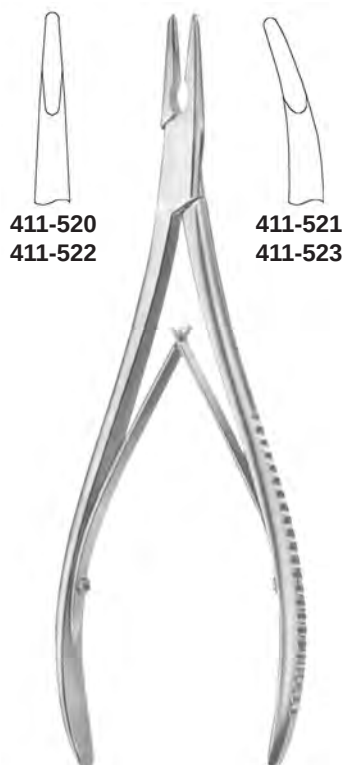
JANSEN
411-510 175mm, 6 7/8"
411-511 175mm, 6 7/8"



BLUMENTHAL
411-565 - 411-569



JANSEN
411-513 190mm, 7 1/2"



411-520
411-522

411-521
411-523

LEMPERT

411-520 160mm, 6 1/4"
411-522 190mm, 7 1/2"

411-521
411-523



411-583

411-589

MEAD

411-583 165mm, 6 1/2"
411-589 165mm, 6 1/2"



NORTHFIELD

411-553 210mm, 8 1/4"



8mm
411-548

8mm
411-549

LUER

411-548 175mm, 6 7/8"
411-549 175mm, 6 7/8"



10mm
411-546

10mm
411-547

LUER

411-546 180mm, 7"
411-547 180mm, 7"



ADSON
343-714 205mm, 8"

Schädel Rongeur
Cranial Rongeur
Gubia craneal
Rongeur cranién



OLIVECRONA
411-535 205mm, 8"

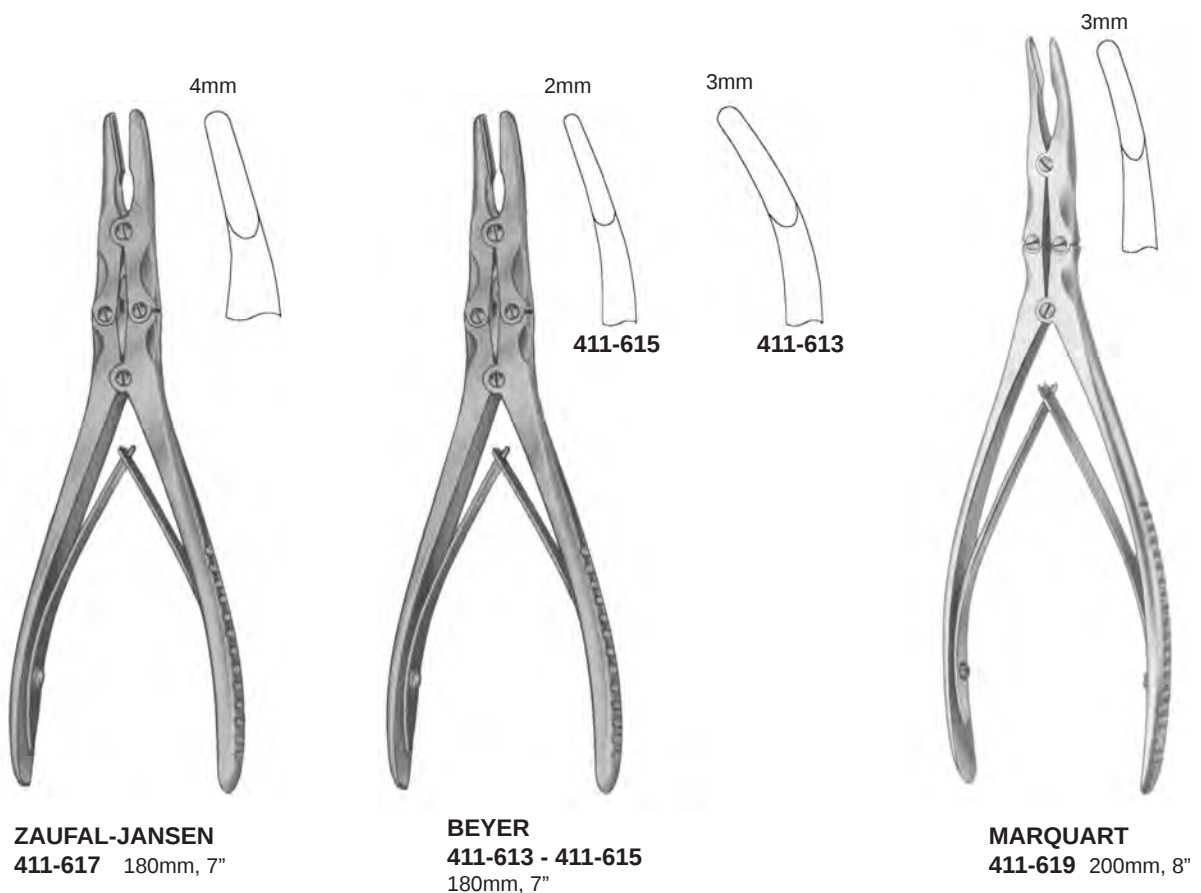
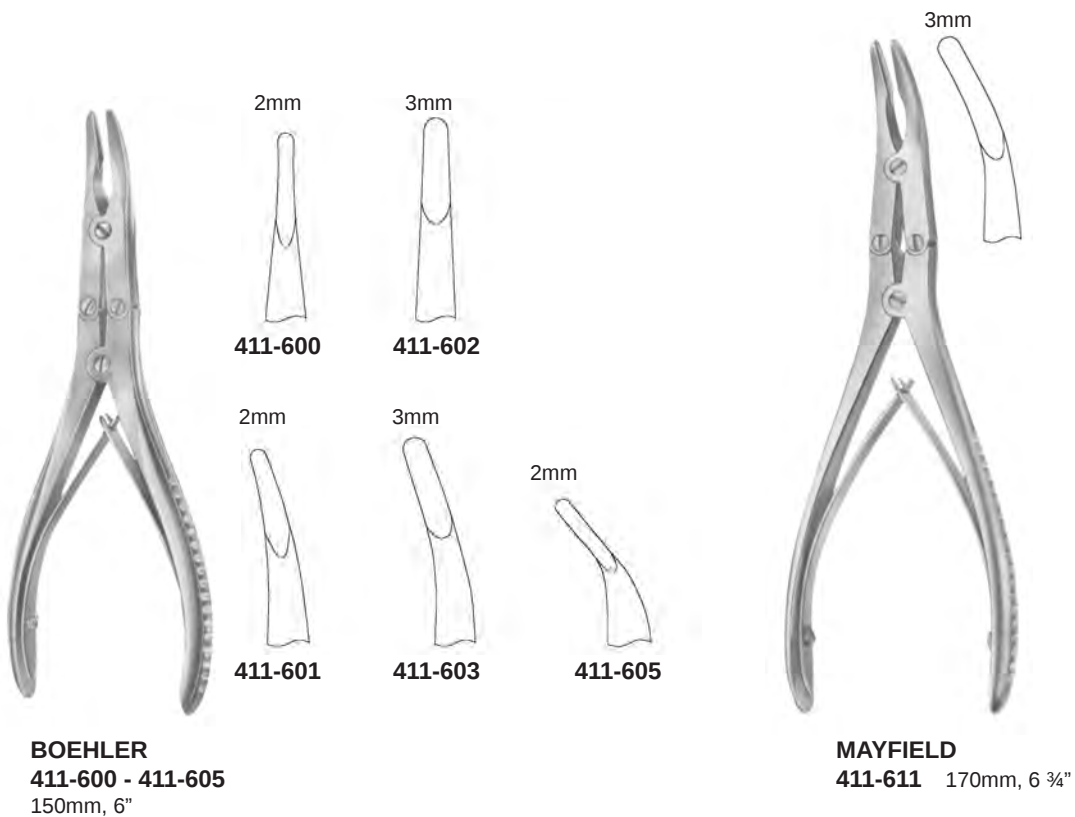


CLEVELAND
411-593 135mm, 5 ¼"
411-595 165mm, 6 ½"



STOOKEY
343-711 200mm, 8" **BACON**
343-713

Schädel Rongeur
Cranial Rongeur
Gubia craneal
Rongeur cranién





RUSKIN
411-620 - 411-625
180mm, 7"

4mm



411-620

6mm



411-624

4mm



411-621

6mm



411-625



ROETTGEN-RUSKIN
411-631
240mm, 9 1/2"

5mm



RUSKIN-STILLE
411-632-411-633
240mm, 9 1/2"

7mm



411-632

7mm



411-633



411-670
411-672



411-671
411-673



411-681



411-660



411-661



STILLE LUER
411-670 230mm, 9" **411-671**
411-672 270mm, 10 1/2" **411-673**



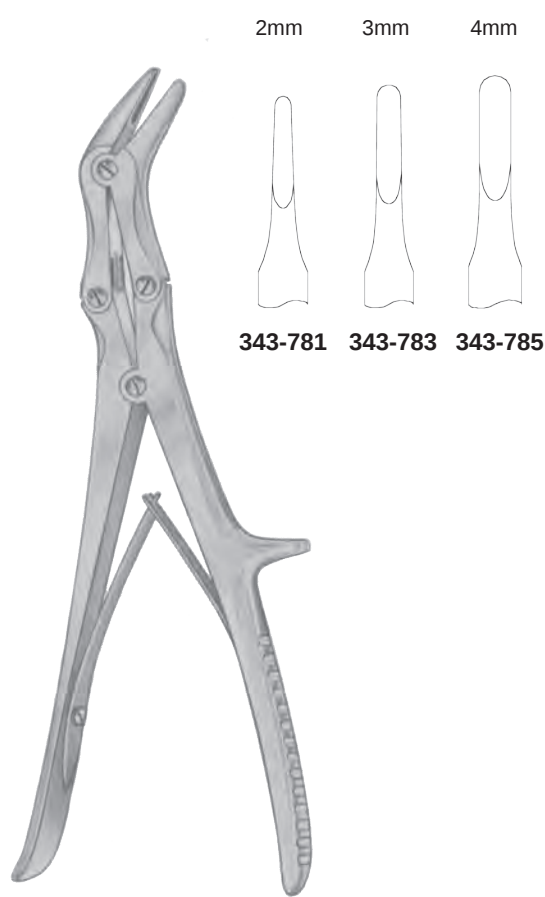
SEMB
411-681 235mm, 9 1/4"



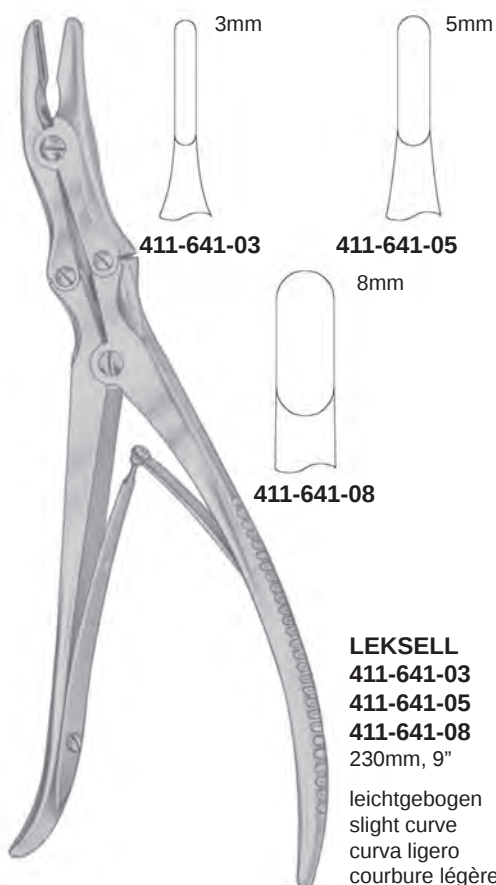
STILLE LUER
411-660 225mm, 8 3/4" **411-661**



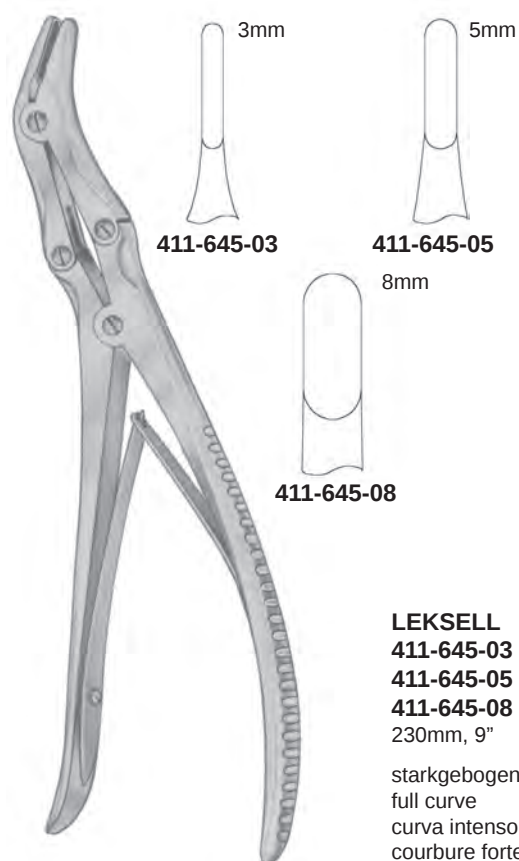
STILLE
411-651 230mm, 9"



ECHLIN
343-781 - 343-785
230mm, 9"



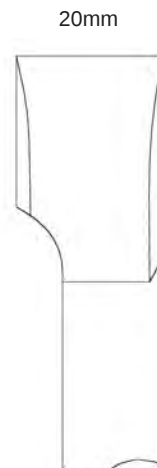
LEKSELL
411-641-03 3mm
411-641-05 5mm
411-641-08 8mm
230mm, 9"
leichtgebogen
slight curve
curva ligero
courbure légère



LEKSELL
411-645-03 3mm
411-645-05 5mm
411-645-08 8mm
230mm, 9"
starkgebogen
full curve
curva intenso
courbure forte



251-002-20

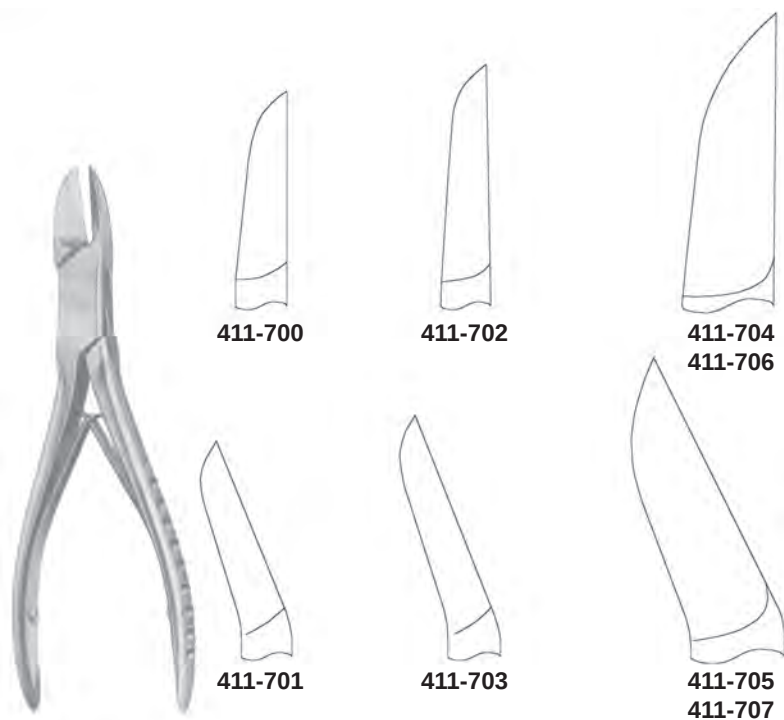


251-004-20



SAUERBRUCH

251-002-20 310mm, 12 1/4" 251-004-20



LISTON

411-700	140mm, 5 1/2"
411-701	140mm, 5 1/2"
411-702	170mm, 6 3/4"
411-703	170mm, 6 3/4"
411-704	200mm, 8"
411-705	200mm, 8"
411-706	220mm, 8 3/4"
411-707	220mm, 8 3/4"



LITTAUER-LISTON
411-710
150mm, 6"

CLEVELAND
411-749
150mm, 6"

CLEVELAND
411-751
170mm, 6 3/4"

KAZANJIAN
451-120
185mm, 7 1/4"



411-800



411-801

BOEHLER
411-800 - 411-801
150mm, 6"



411-810



411-811

MC INDOE
411-810 - 411-811
175mm, 7"



411-822



411-823

RUSKIN-LISTON
411-822 - 411-823
180mm, 7 1/2"



411-820



411-821

ROWLAND
411-820 - 411-821
180mm, 7"



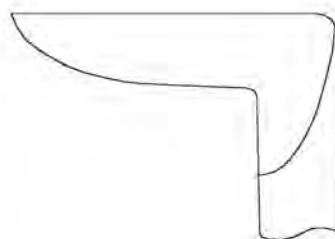
411-830
270mm, 10 3/4"



411-829
235mm, 9 1/4"



411-831
270mm, 10 3/4"



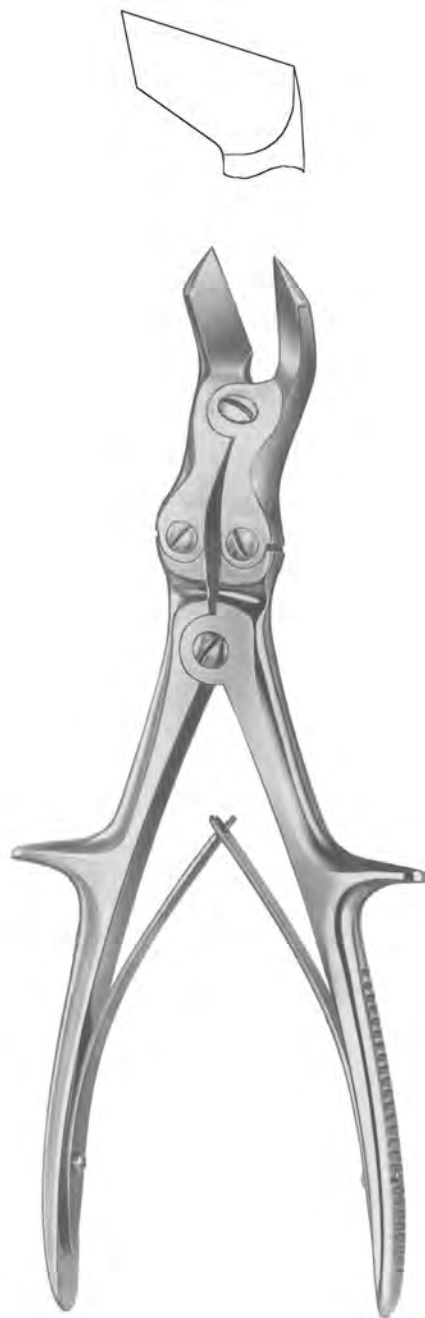
411-833
260mm, 10 1/4"



LISTON
411-829 235mm, 9 1/4"
411-830 270mm, 10 3/4"
411-831 270mm, 10 3/4"



LISTON
411-833
260mm, 10 1/4"



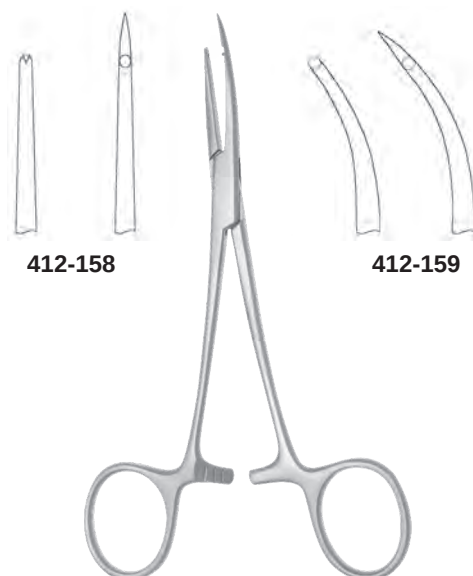
**STILLE-HORSLEY
(TUDOR EDWARDS)**
411-840
260mm, 10 1/4"



SEMB
411-850
240mm, 9 1/2"



BRAND
412-180 150mm, 6"
412-182 190mm, 7 1/2"



412-158 – 412-159
150mm, 6"



CARROLL
412-127

Nutzlänge 110mm, 4 3/8"
working length 110mm, 4 3/8"
longitud de utilitario 110mm, 4 3/8"
longeur utilitaire 110mm, 4 3/8"



längs durchbohrt
cannulated
barrenado oblongo
perforation axiale

mit Schlüssel
with key
con llave
avec clef

412-540 160mm, 6 1/4"
Spannweite bis Ø 6,35mm
for shanks up to 6,35mm
aperture hasta Ø 6,35mm
passage jusqu'a Ø 6,35mm



Ø 2,5 - 3,5mm

412-586 160mm, 6 1/4"



412-588 140mm, 5 4/8"



PERTHES
412-580 180mm, 7"
412-581 215mm, 8 1/2"



**BUNNEL
412-500**

längsdurchbohrt, Spannweite bis Ø 4mm mit Schlüssel (412-501)
cannulated for shanks up to 4mm with key (412-501)
barrenado oblongo, apertura hasta Ø 4mm on llave (412-501)
passage jusqu'a Ø 4mm, avec clef (412-501)



**RALK
412-520**

längsdurchbohrt, Spannweite bis Ø 6,35mm mit Schlüssel (412-521)
cannulated for shanks up to 6,35mm with key (412-521)
barrenado oblongo, aperture hasta Ø 6,35mm con llave (412-521)
passage jusqu'a 6,35mm, avec clef (412-521)



412-510

275mm, 10 1/4"

Spindel längsdurchbohrt, Spannweite bis 6,00mm
Cannulated spindle for shanks up to 6,00mm
huso barrenado oblongo, aperture hasta Ø 6,00mm
passage de fuseau et mâchoire jusqu'a 6,00mm

2,5mm

3,5mm



412-604 170mm, 6 3/4"
412-606 250mm, 10"

412-600 250mm, 10"
412-601 200mm, 8"

412-602 250mm, 10"
412-603 200mm, 8"

412-608 250mm, 10"

PHILIPS
412-610 250mm, 10"



gewebeverträglich
tissue compatible
inofensivo para tejido
blen toléré par les tissus

Ømm	Ø gauge	
0,2	31G	413-002
0,3	29G	413-003
0,4	27G	413-004
0,5	25G	413-005
0,6	23G	413-006
0,7	22G	413-007
0,8	21G	413-008
0,9	20G	413-009
1,0	19G	413-010
1,2	18G	413-012
1,5		413-015

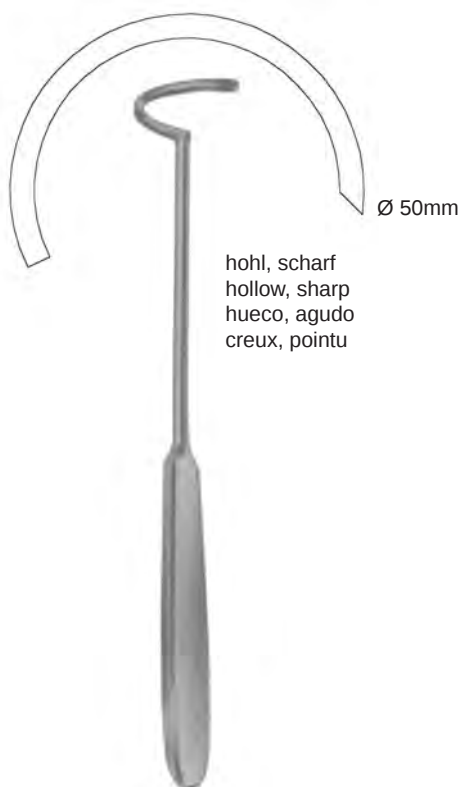
Cerclage-Drähte, weich, Ringe zu 10 m
Bone wires, soft, coils of 10 m
Hilos de cerclaje blandos rollos de 10 m
Fil pour cerclage, souple, rouleaux de 10 m



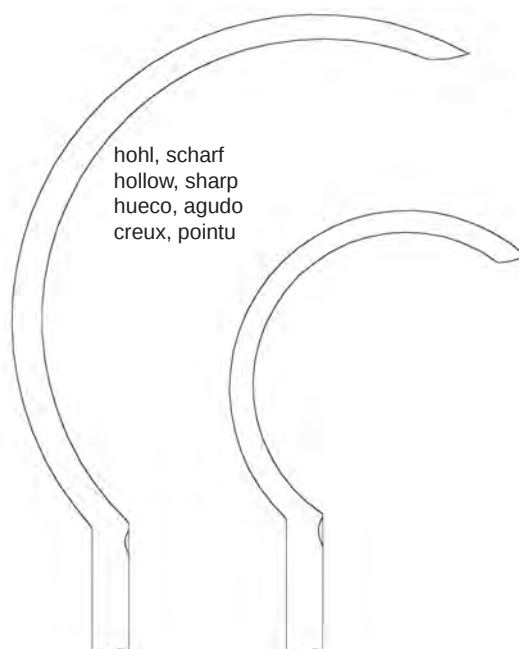
LOUTE
413-100
210mm, 8 1/4"



DEMEL
413-120
280mm, 11"



DEMEL
413-072
230mm, 9"



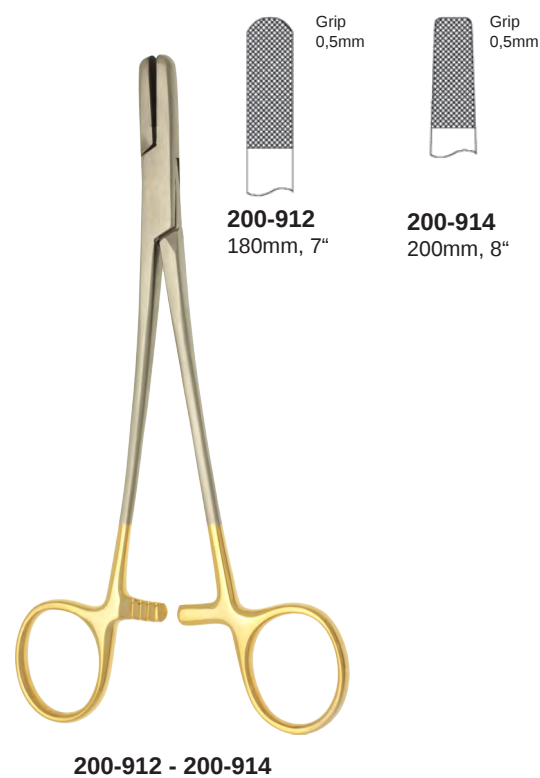
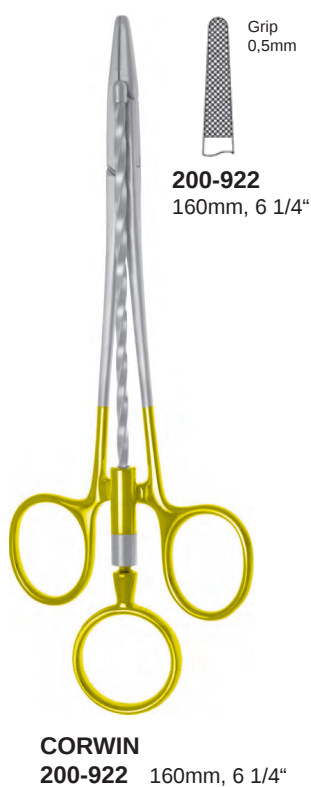
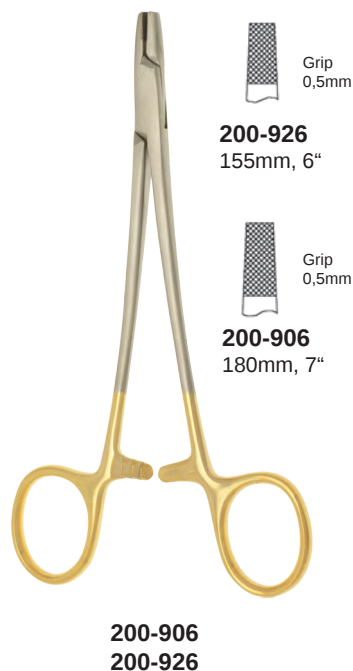
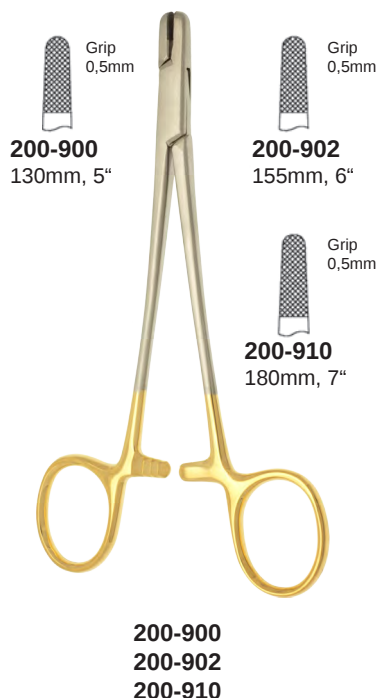
413-065
Ø 80mm

413-062
Ø 45mm

hohl, scharf
hollow, sharp
hueco, agudo
creux, pointu



DEMEL
413-062 240mm, 9 1/2"
413-065 270mm, 10 3/4"



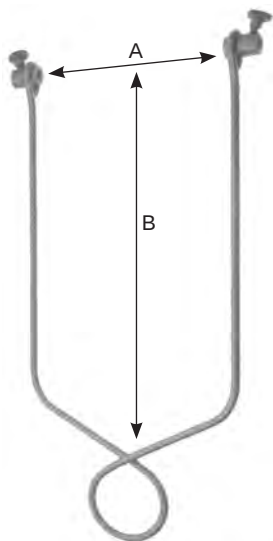


Table with 3 columns: BÖHLER 413-600, BÖHLER 413-601, BÖHLER 413-602. Each column contains dimensions, size, and application in German, English, and Spanish.



413-631



413-661 - 413-663

mit 3 Zughaken
with 3 traction hooks
con 3ganchos de tracción
avec 3 crochets de traction



413-650 - 413-651

STEINMANN

Table with 2 columns: mm, Ø. It lists various sizes of Steinmann pins from 80mm to 300mm.

mit Trokarspitze und 3kant Schaft
aus Implantatstahl DIN 17443
with trocar point and triangular shaft,
implant stainless steel to DIN 17443
con punta trocar y vastago triangular,
para acero inoxidable, conforme a DIN 17443
à pointe triangulaire, extrémité triangulaire,
acier inoxydable, à la norme DIN 17443

Table with 5 columns: KIRSCHNER, A, dimensions, KIRSCHNER, A. It lists various sizes of Kirschner wires.

für Kirschner Drähte bis Ø 2,5mm; for Kirschner wires up to 2,5mm diam.
para agujas Kirschner hasta Ø 2,5mm; pour broches Kirschner jusqu'à 2,5mm Ø

TROKARSPITZE, TROCAR POINT
PUNTAS DE TROCAR, POINTE DE TROCARTE

Ømm diam.	100mm 4"	150mm 6"	310mm 12 ½"
0,8	419-0038	419-0138	419-0308
1,0	419-0040	419-0140	419-0310
1,2	419-0042	419-0142	419-0312
1,4	419-0044	419-0144	419-0314
1,5	419-0045	419-0145	419-0315
1,6	419-0046	419-0146	419-0316
1,8	419-0048	419-0148	419-0318
2,0	419-0050	419-0150	419-0320
2,2	419-0052	419-0152	419-0322
2,5	419-0055	419-0155	419-0325
3,0	419-0060	419-0160	419-0330

RUNDES ENDE, ROUND SHAFT
CON VASTAGO, REDONDO, A EXTREMITE RONDE

TROKARSPITZE, TROCAR POINT
PUNTAS DE TROCAR, POINTE DE TROCARTE

Ømm diam.	150mm 6"	310mm 12 ½"
0,8	419-1138	419-1308
1,0	419-1140	419-1310
1,2	419-1142	419-1312
1,4	419-1144	419-1314
1,5	419-1145	419-1315
1,6	419-1146	419-1316
1,8	419-1148	419-1318
2,0	419-1150	419-1320
2,2	419-1152	419-1322
2,5	419-1155	419-1325
3,0	419-1160	419-1330

MIT FLACHEM ENDE, WITH FLAT SHAFT
CON TERMINO PLANMO, A EXTREMITE PLATE

Sämtliche Bohrdrähte auch in anderen Längen lieferbar!
On request, available in any other length needed!
Entregable en otras medidas!
Livrables, sur demande, dans toute autre longueur!

Packungen zu je 10 Stück.
packages of 10 pieces.
Paquete de 10 piezas.
Paquets de 10 pièces.

BEIDSEITIG TROKAR, DOUBLE TROCAR POINT
PUNTAS DE TROCAR, DOBLE, POINTE DE TROCARTE, DOUBLE

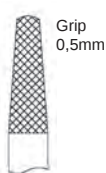
Ømm diam.	100mm 4"	150mm 6"	230mm 9"	310mm 12 ½"
0,8	419-2038	419-2138	419-2208	419-2308
1,0	419-2040	419-2140	419-2210	419-2310
1,2	419-2042	419-2142	419-2212	419-2312
1,4	419-2044	419-2144	419-2214	419-2314
1,5	419-2045	419-2145	419-2215	419-2315
1,6	419-2046	419-2146	419-2216	419-2316
1,8	419-2048	419-2148	419-2218	419-2318
2,0	419-2050	419-2150	419-2220	419-2320
2,2	419-2052	419-2152	419-2222	419-2322
2,5	419-2055	419-2155	419-2225	419-2325
3,0	419-2060	419-2160	419-2230	419-2330

Bohrdrahtspender für Bohrdrähte Ø x Länge
Wire dispenser for wire drills diam.x length
Dispensador para agujas Ø x longitud
Distributeur pour broches Ø x longueur
Distributore per Ø e lunghezza punta

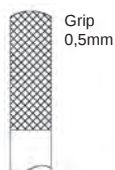
Ø mm	180mm 7"	330mm 13 ¼"
0,8	419-5418-08	419-5433-08
1,0	419-5418-10	419-5433-10
1,2	419-5418-12	419-5433-12
1,4	419-5418-14	419-5433-14
1,6	419-5418-16	419-5433-16
1,8	419-5418-18	419-5433-18
2,0	419-5418-20	419-5433-20
2,2	419-5418-22	419-5433-22
2,5	419-5418-25	419-5433-25



413-177
180mm, 7"



413-178
180mm, 7"



413-179
180mm, 7"

TUNGSTENGRIP 413-177 – 413-179

mit Hartmetalleinlagen,
with tungsten carbide inserts
con capas de carburo tungsteno
avec inserts en carbure de tungstène



413-170 - 413-174



413-170
145mm, 5 ¾"



413-171
180mm, 7"



413-172
180mm, 7"



413-173
180mm, 7"



413-174
180mm, 7"



413-153 – 413-154



413-153
130mm, 5"



413-154
180mm, 7"



413-150
150mm, 6"



413-152
150mm, 6"



413-158
140mm, 5 ½"



413-160

170mm, 6 ¾"



413-161

170mm, 6 ¾"



413-165
190mm, 7 ½"



413-134
185mm, 7 ¼"



413-135
170mm, 6 ¾"



413-130
185mm, 7 ¼"

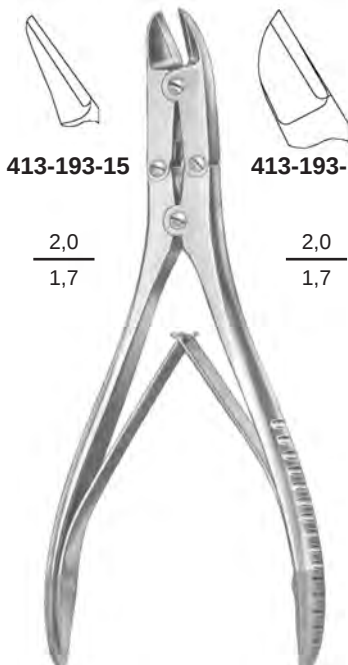
TUNGSTENCUT



Kopf- und Seitenschneider
front and lateral cutter
Alicate de corte frontal y lateral
Pince a couper frontale et latérale

$\frac{2,0}{1,5}$

413-192
180mm, 7"



413-193-15

$\frac{2,0}{1,7}$

413-193-18

$\frac{2,0}{1,7}$

413-193-15 155mm, 6 1/4"

413-193-18 180mm, 7"

für weichen Draht bis Ømm
for soft wire up to mm diam.
para blandos hasta Ømm
pour couper les fils mous jusqu'à Ømm

für harten Draht bis Ømm
for hard wire up to mm diam.
para duros hasta Ømm
pour couper les fils durs jusqu'à Ømm



$\frac{0,6}{0,4}$

413-140
125mm, 5"



$\frac{2,0}{1,5}$

413-146
150mm, 6"



$\frac{3,5}{2,5}$

413-186
220mm, 8 3/4"



$\frac{2,8}{2,2}$

413-195
230mm, 8 3/4"

Kopfschneider
head cutter
alicate para corte frontal
pince coupante, tranchant frontal



413-202
380mm, 15"
für Kirschner Drähte bis 4mm Ø
for Kirschner wire up to 4mm Ø
para agujas de Kirschner hasta 4mm Ø
pour broches de Kirschner jusqu'à 4mm Ø

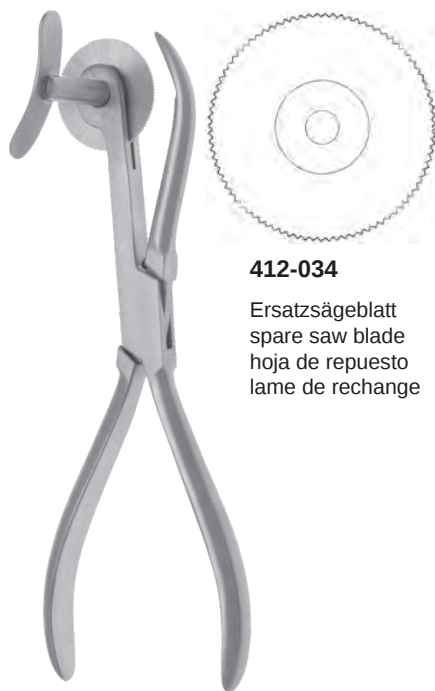


413-198 460mm, 18 1/4"
413-199 560mm, 22"
Bolzenschneider zum Abzwicken von Drähten,
Schrauben und Nägel bis 6mm
Cutter for cutting wires, screws and pins up to 6mm
Alicates cortar alambres, tornillos y calvos hasta 6mm
Pince à couper les fils, pivots et clous jusqu'à 6mm



Kompressorium
comprimeter
compressor
compresseur

412-090SS
100mm, 4"



412-034

Ersatzsägeblatt
spare saw blade
hoja de repuesto
lame de rechange

412-033
170mm, 6 3/4"



RADOLF
412-010

135mm, 5 1/4"

Nagelausreißzange
nail extracting forceps
pinzas arrance-unas
pince pour arracher les ongles



412-006

130mm, 5 1/4"

Nagelspaltzange
nail splitting forceps
pinzas corta-unas
pince pour fender les ongles

ELCON 410

FÜR NOTIZEN
FOR NOTES
PARA NOTAS
POUR NOTES

ELCON

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