



TALENT
S U R G I C A L



ORTHOPEDICS SPINE SURGICAL INSTRUMENTS

We make more
than 1385 surgical
instruments.

We are proud to
manufacture
premium quality
instruments.

Certification:



Registered with Therapeutic Goods Australia (Scissors)
Registered with Therapeutic Goods Australia (Needle Holder)
Registered with Therapeutic Goods Australia (Forceps)

www.tsurgicalinstruments.com



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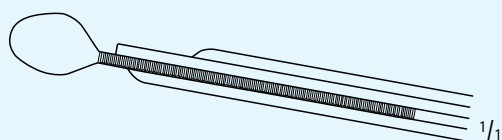


Orthopedics/Spine

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Meniscus Instruments	023
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TSI001-TSI008



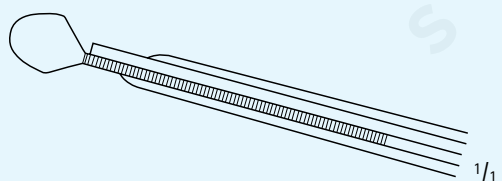
TSI001-TSI008

Universal Bandage Scissors

Catalog Number	Handle Color	Length (in.)
TSI001	BLACK	7
TSI002	RED	7
TSI003	BLUE	7
TSI004	YELLOW	7
TSI005	ORANGE	7
TSI006	PINK	7
TSI007	LIGHT GREEN	7
TSI008	VIOLET	7



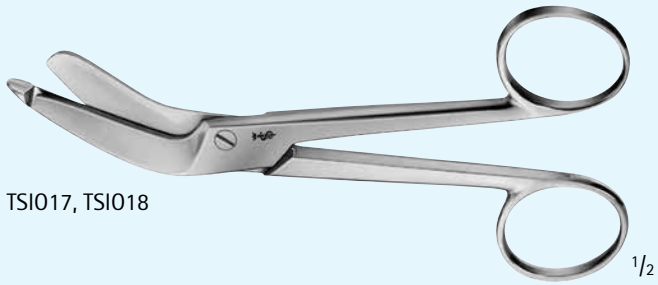
TSI009-TSI016



TSI009-TSI016

LISTER Universal Bandage Scissors

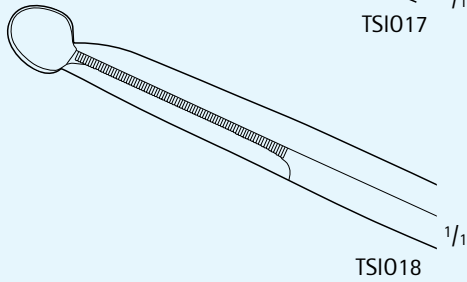
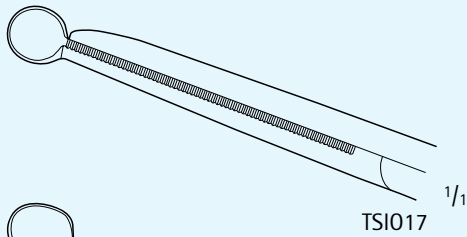
Catalog Number	Handle Color	Length (in.)
TSI009	BLACK	5 3/4
TSI010	RED	5 3/4
TSI011	BLUE	5 3/4
TSI012	YELLOW	5 3/4
TSI013	ORANGE	5 3/4
TSI014	PINK	5 3/4
TSI015	LIGHT GREEN	5 3/4
TSI016	VIOLET	5 3/4



TSI017, TSI018

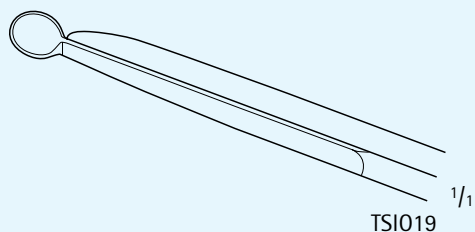
LISTER Bandage Scissors, Serrated

Catalog Number	Length (in.)
TSI017	3 1/2
TSI018	6 1/4

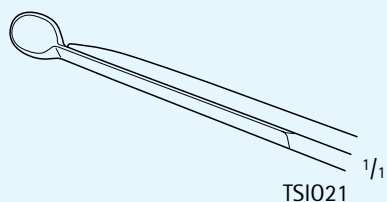




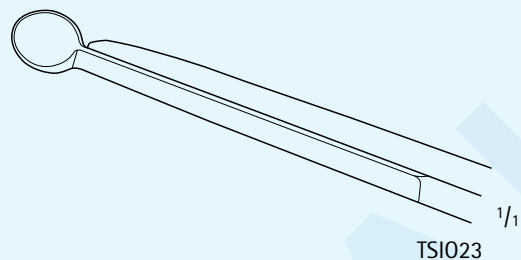
TSIO19-TSIO24



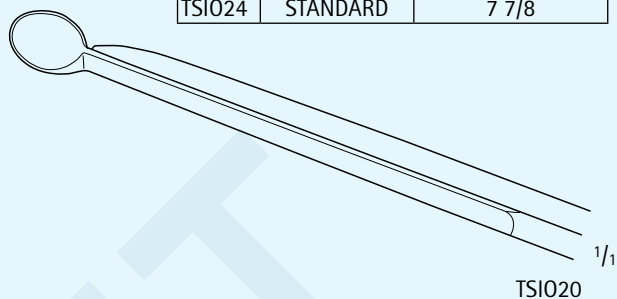
TSIO19



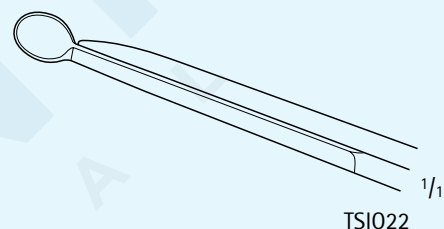
TSIO21



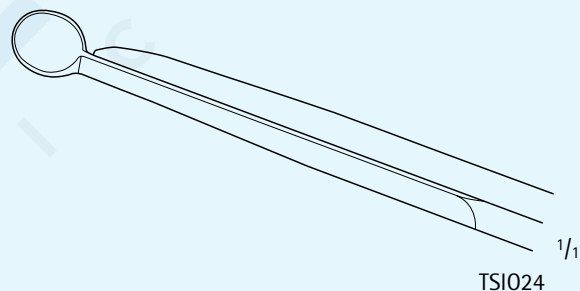
TSIO23



TSIO20



TSIO22



TSIO24

LISTER Bandage Scissors

Catalog Number	Blade	Length (in.)
TSIO19	LONG	6 1/8
TSIO20	LONG	7
TSIO21	STANDARD	4 1/2
TSIO22	STANDARD	5 1/2
TSIO23	STANDARD	7
TSIO24	STANDARD	7 7/8



TSIO25



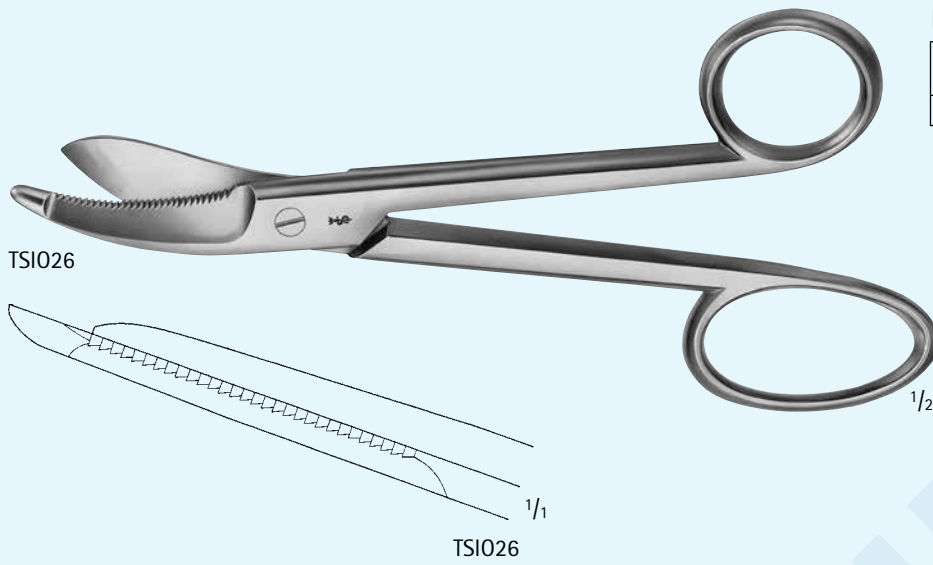
TSIO25

**LISTER Bandage Scissors
W/ One Large Ring**

Catalog Number	Length (in.)
TSIO25	8

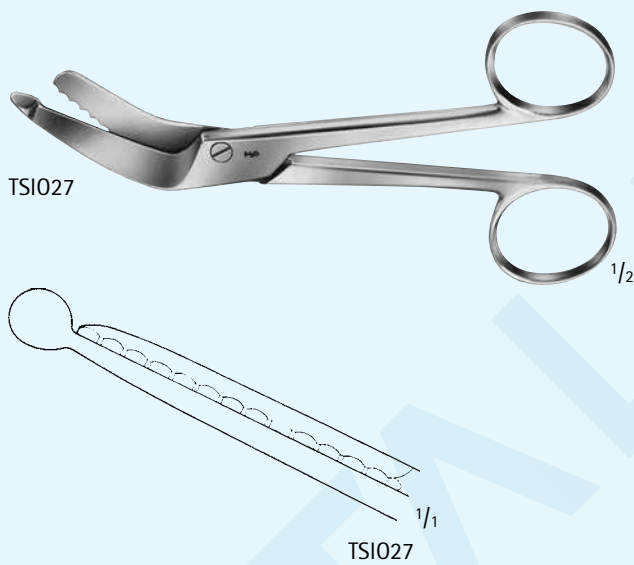
Plaster and Bandage Scissors

Catalog Number	Length (in.)
TSI026	9 1/4



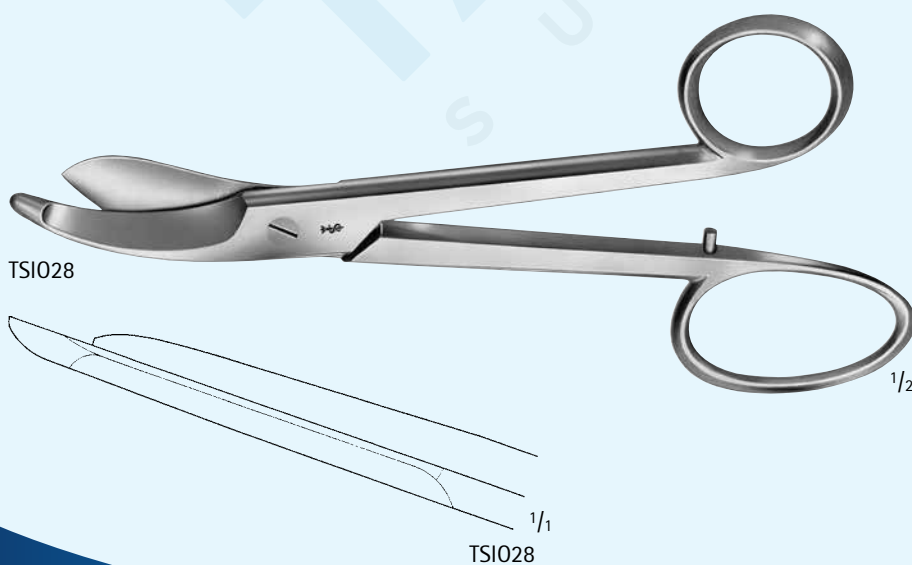
Plaster Scissors

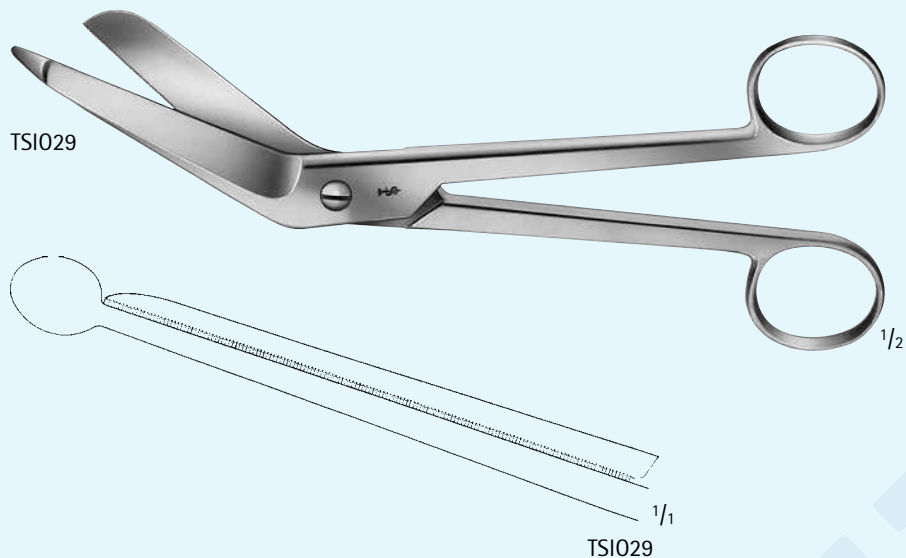
Catalog Number	Length (in.)
TSI027	6 1/4



BRUNS Plaster Scissors

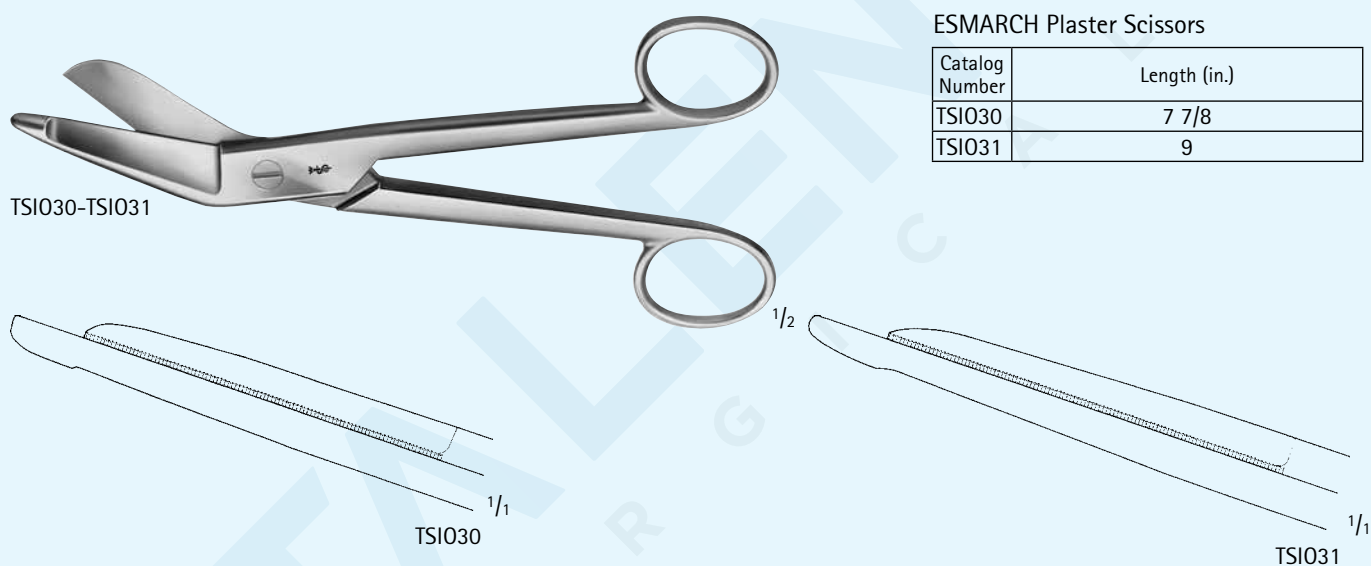
Catalog Number	Length (in.)
TSI028	9 1/4





BERGMANN Plaster Scissors

Catalog Number	Length (in.)
TSI029	9



ESMARCH Plaster Scissors

Catalog Number	Length (in.)
TSI030	7 $\frac{7}{8}$
TSI031	9

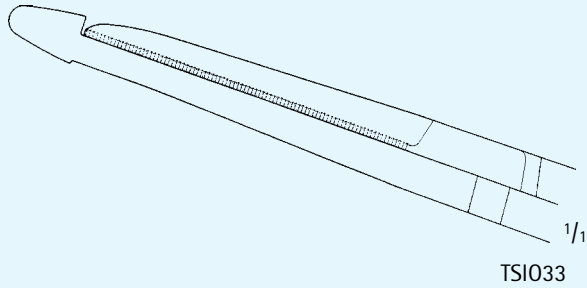
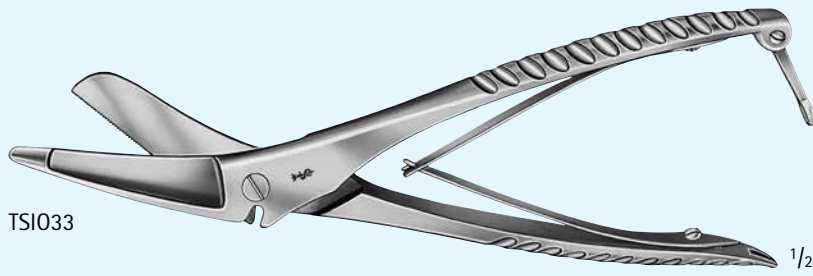


HERCULES Plaster Shears

Catalog Number	Length (in.)
TSI032	7 $\frac{1}{2}$

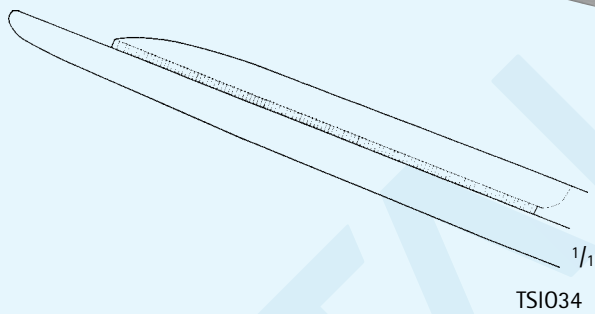
Plaster Scissors

Catalog Number	Length (in.)
TSI033	8



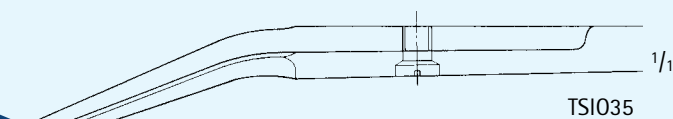
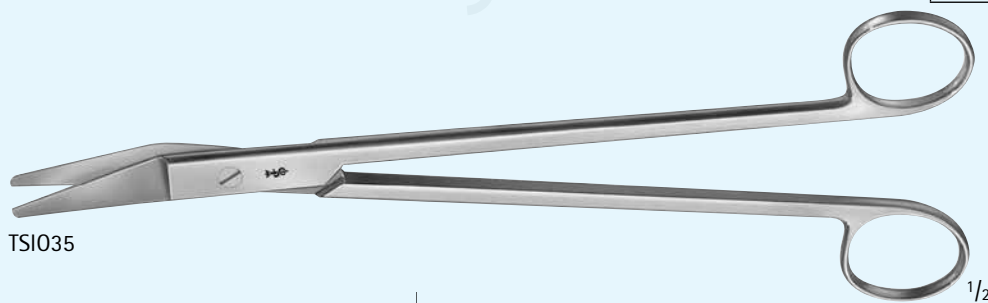
SEUTIN Plaster and Bandage Scissors

Catalog Number	Length (in.)
TSI034	9



RESANO Cartilage Scissors

Catalog Number	Tip	Blade	Length (in.)
TSI035	B/B	ANG	9 3/4

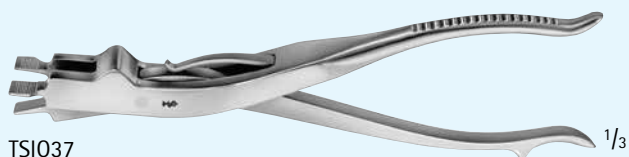




TSI036

HENNIG Plaster Spreader

Catalog Number	Length (in.)
TSI036	10 5/8



TSI037

Plaster Spreader

Catalog Number	Length (in.)
TSI037	9



TSI038-TSI039

WOLFF Plaster Breaker

Catalog Number	Length (in.)
TSI038	7
TSI039	9 1/2



TSI040

Nail Cutter

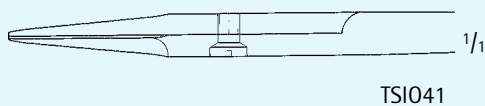
Catalog Number	Length (in.)
TSI040	5 1/4



TSI040

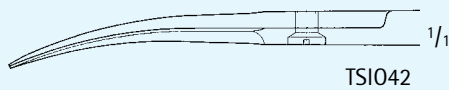
SYSTRUNK Nail Splitting Scissors

Catalog Number	Tip	Blade	Length (in.)
TSI041	S/S	STR	5 1/8



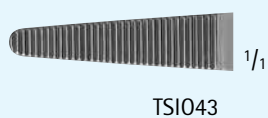
Nail Scissors

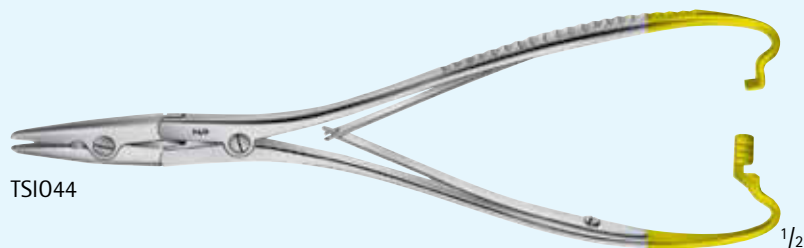
Catalog Number	Tip	Blade	Length (in.)
TSI042	S/S	CVD	4 1/4



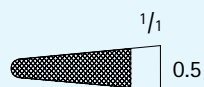
Needle Nose Pliers/Wire Cutters

Catalog Number	Length (in.)
TSI043	7 1/4





TSIO44



TSIO44

Needle Holder, Double Action

Catalog Number	Handle	Jaw	Length (in.)
TSIO44	RATCHET	SERR	7 7/8



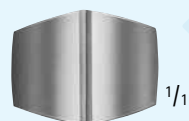
TSIO45



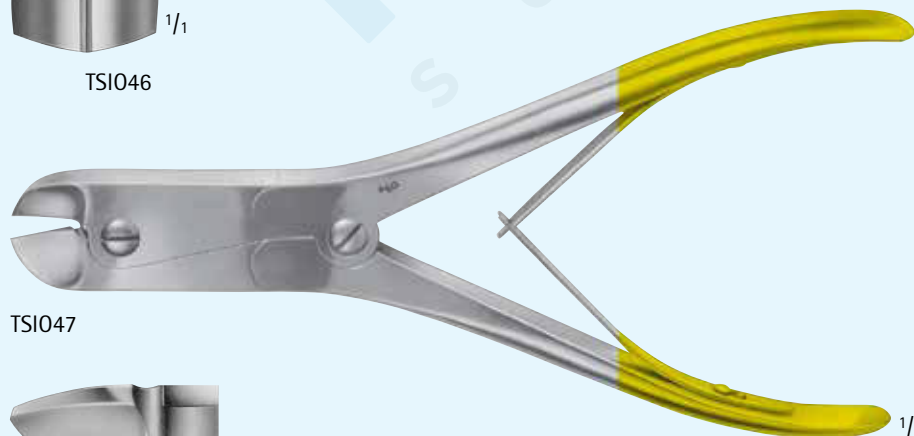
TSIO45



TSIO46



TSIO46



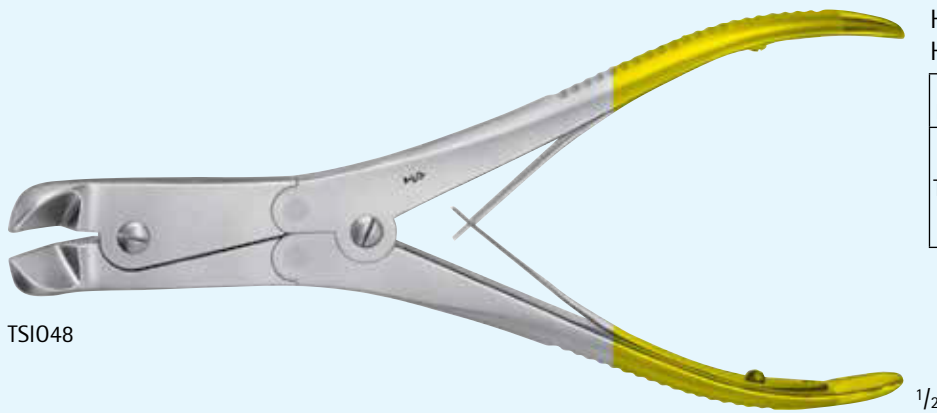
TSIO47



TSIO47

Wire Cutter, W/ Specially Hardened Cutting Edges

Catalog Number	For Wire Size	Length (in.)
TSIO45	SOFT, UP TO 2MM AND HARD, UP TO 1.5MM	5 3/4
TSIO46	SOFT, UP TO 3.5MM AND HARD, UP TO 2.0MM	8 3/4
TSIO47	SOFT, UP TO 3MM AND HARD, UP TO 2.2MM	9 1/4



HARVEY Wire Cutter, W/ Specially Hardened Cutting Edges

Catalog Number	For Wire Size	Tip	Length (in.)
TSI048	SOFT, UP TO 3MM AND HARD, UP TO 2.2MM	ANG	9 1/4

TSI048

1/2



Wire Cutter, Front and Lateral, W/ Specially Hardened Cutting Edges

Catalog Number	Wire Size	Length (in.)
TSI049	SOFT, UP TO 2MM AND HARD, UP TO 1.5MM	7

TSI049

1/2



1/1

TSI049



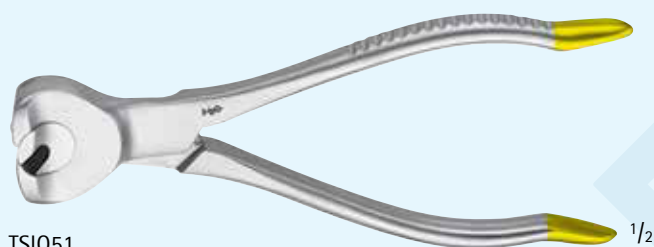
TSI050



TSI050

REILL Cutter, F/ Wire Close To Bone, W/
Specially Hardened Cutting Edges

Catalog Number	For Wire Size	Length (in.)
TSI050	SOFT, UP TO 2MM AND HARD, UP TO 1.5MM	6 7/8



TSI051



TSI051

Front Cutter, W/ Specially Hardened
Cutting Edges

Catalog Number	For Wire Size	Length (in.)
TSI051	SOFT, UP TO 3.5MM AND HARD, UP TO 2.5MM	6 1/2



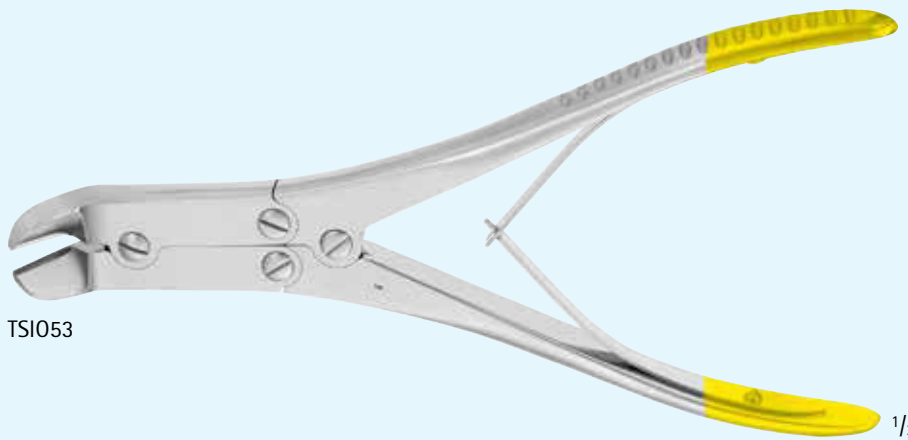
TSI052

TC Wire Cutter W/ Carbide Cutting
Edges

Catalog Number	Length (in.)
TSI052	9 1/2

TC Wire Cutter Double Action

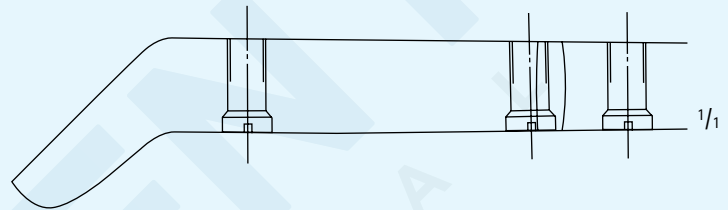
Catalog Number	Packaging	Tip	Length (in.)
TSI053	2.5	ANG	8 3/4



TSI053



TSI053

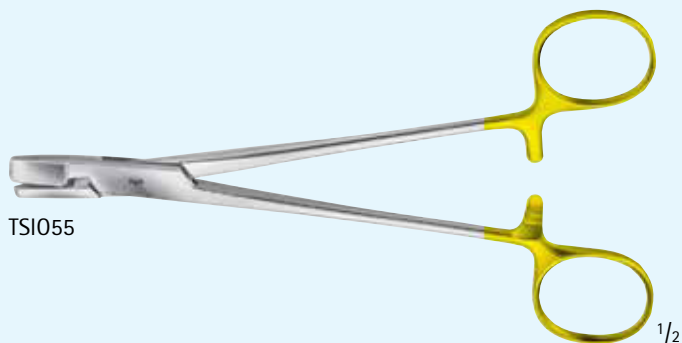


TC Flush Wire Cutter

Catalog Number	Packaging	Tip	Length (in.)
TSI054	1.6	FRONT AND LATERAL	6 3/4



TSI054



TSI055

$\frac{1}{2}$

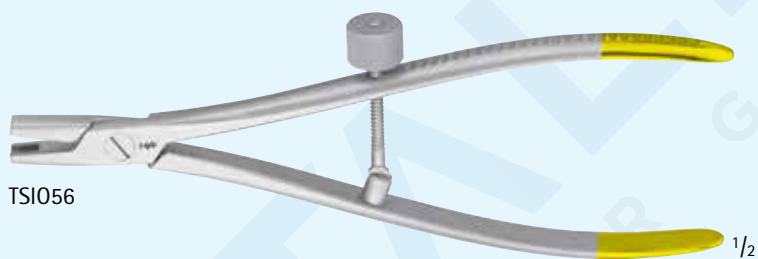


$\frac{1}{1}$

TSI055

Wire Holding Forceps W/Hard Metal Inserts

Catalog Number	Length (in.)
TSI055	6 $\frac{3}{4}$

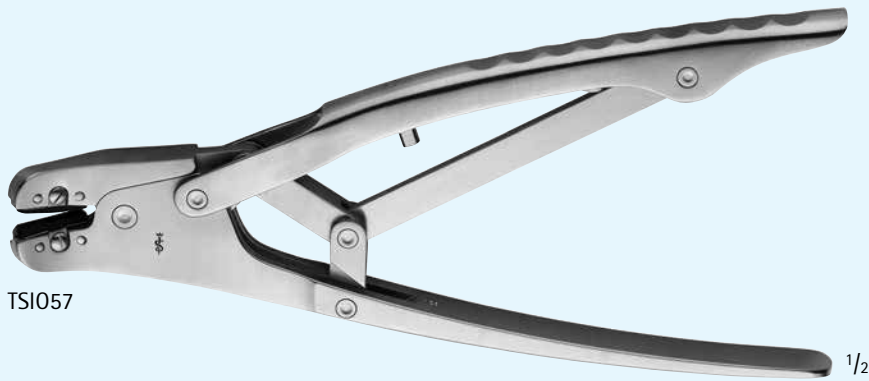


TSI056

$\frac{1}{2}$

Wire Grasping Forceps W/Hard Metal Inserts

Catalog Number	Tip	Length (in.)
TSI056	FLAT	7 $\frac{1}{2}$



HERCULES Pin Cutter

Catalog Number	Packaging	Description	Length (in.)
TSI057	3	TUNGSTEN CARBIDE	8 3/4

TSI057

1/2



Pin Cutter, End-Cutting

Catalog Number	Packaging	Length (in.)
TSI058	4.7	14 3/4
TSI059	6.3	22 1/2

TSI058

1/3

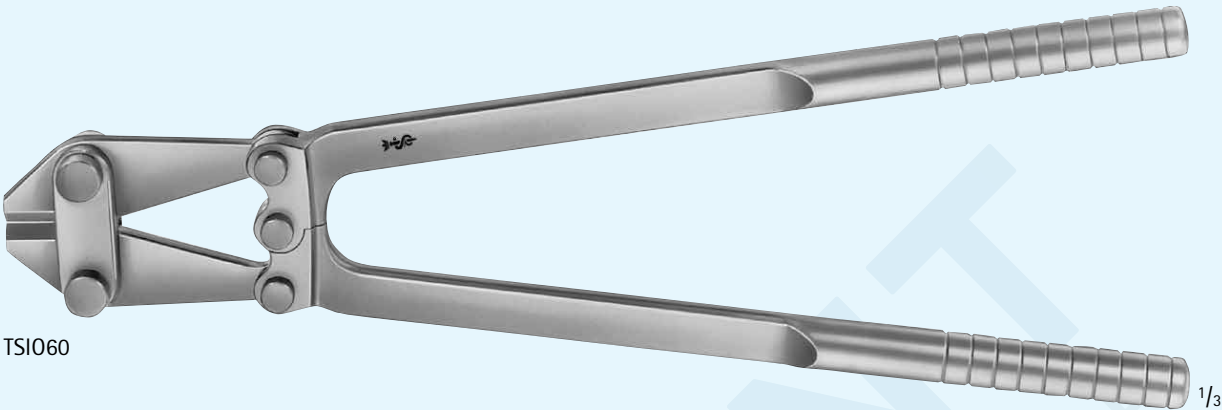


TSI059

1/4

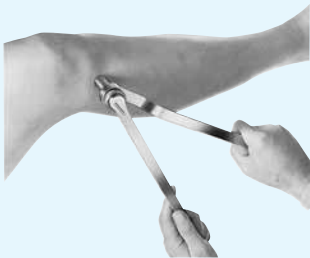
Bolt Cutter

Catalog Number	Item	Length (in.)
TSIO60	F/KIRSCHNER WIRES, TIBIA HEAD SCREWS, BOLTS, PINS, UP TO 6MM	18 1/2



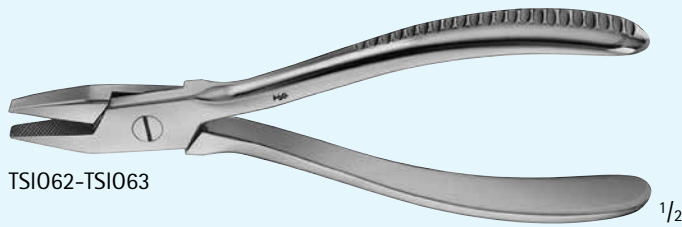
Bolt Cutter

Catalog Number	Item	Length (in.)
TSIO61	F/KIRSCHNER WIRES, TIBIA HEAD SCREWS, BOLTS, PINS, UP TO 6MM	12 1/2



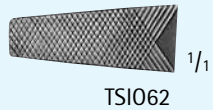
Wire Holding Pliers

Catalog Number	Tip	Length (in.)
TSIO62	SERR	6 3/4
TSIO63	CROSS-GROOVES	6 3/4



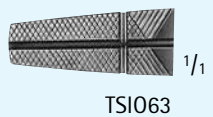
TSIO62-TSIO63

1/2



TSIO62

1/1

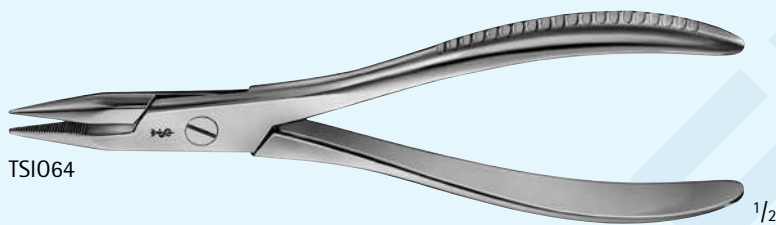


TSIO63

1/1

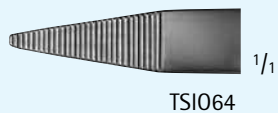
Wire Holding Forceps

Catalog Number	Tip	Length (in.)
TSIO64	SERR	7 1/2



TSIO64

1/2



TSIO64

1/1

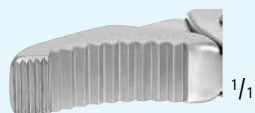
Wire Holding Pliers

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO65	LOCKING	7	7

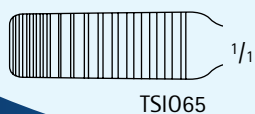


TSIO65

1/2



1/1



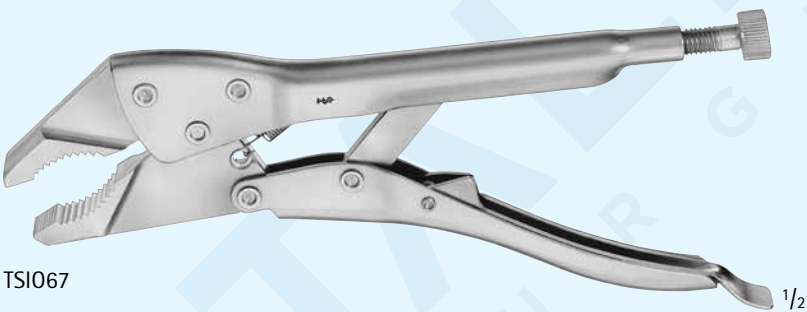
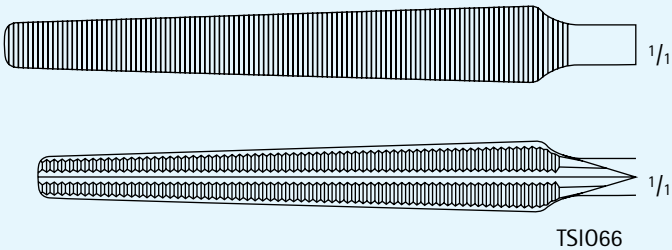
TSIO65

1/1



Wire Holding Needle-Nose Pliers

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO66	LOCKING, NEEDLE-NOSE	5	9 1/2



Vise Grip Pliers

Catalog Number	Tip	Length (in.)
TSIO67	FLAT NOSE	7 7/8



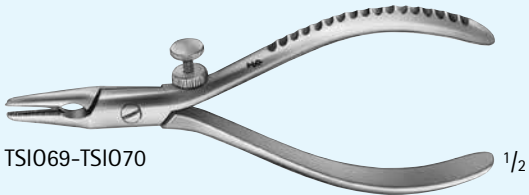


TSIO68

1/2

Bending Iron

Catalog Number	FOR BORING WIRE SIZE	Length (in.)
TSIO68	UP TO 2.7MM	4 3/4



TSIO69-TSIO70

1/2

Wire Extraction Pliers

Catalog Number	Length (in.)
TSIO69	5 1/8
TSIO70	7



1/1



1/1



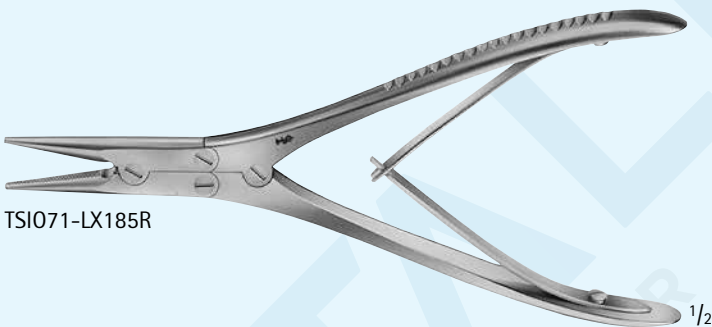
1/1



1/1

TSIO69

TSIO70

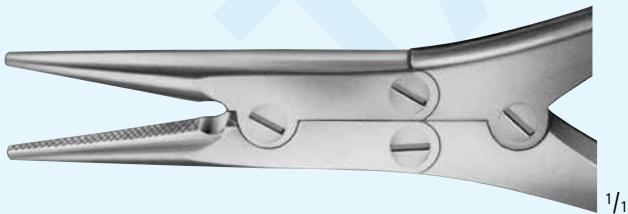


TSIO71-LX185R

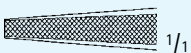
1/2

Wire Extraction Pliers

Catalog Number	Tip	Length (in.)
TSIO71	RND	7
TSIO72	RND, SHORT JAW	7
TSIO73	FLAT	7
TSIO74	PARALLEL	5 3/4



1/1



1/1

TSIO71



1/1

TSIO72



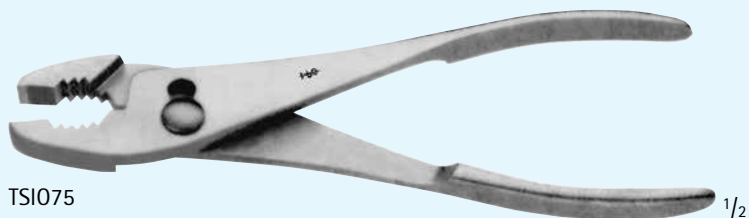
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TSIO73



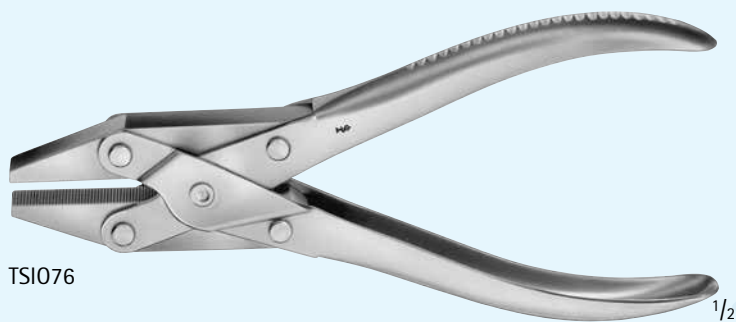
1/1

TSIO74



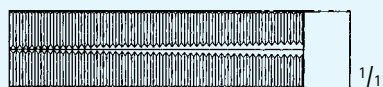
Utility Pliers

Catalog Number	Length (in.)
TSI075	7 $\frac{3}{4}$

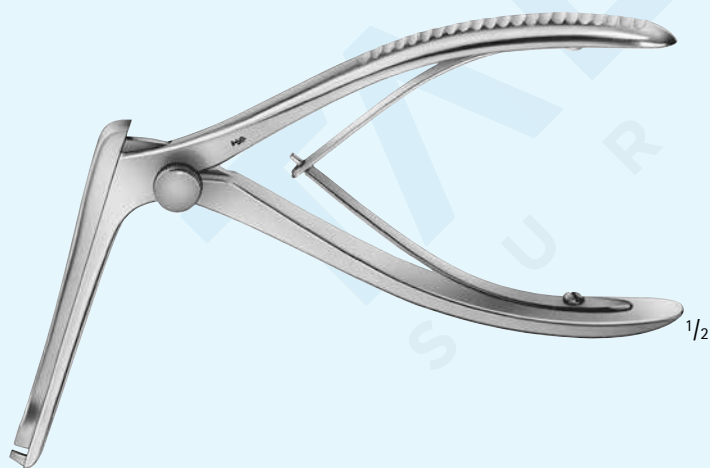


Flat Nosed Pliers

Catalog Number	Tip	Length (in.)
TSI076	PARALLEL	7 $\frac{1}{4}$

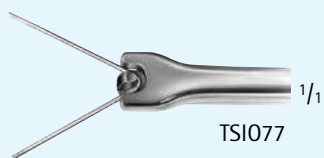


TSI076



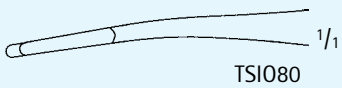
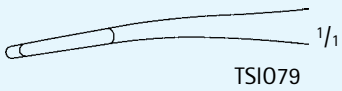
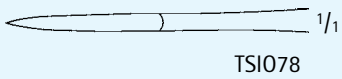
Wire Bending Pliers

Catalog Number	For Wire Size
TSI077	UP TO 1.8MM



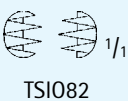
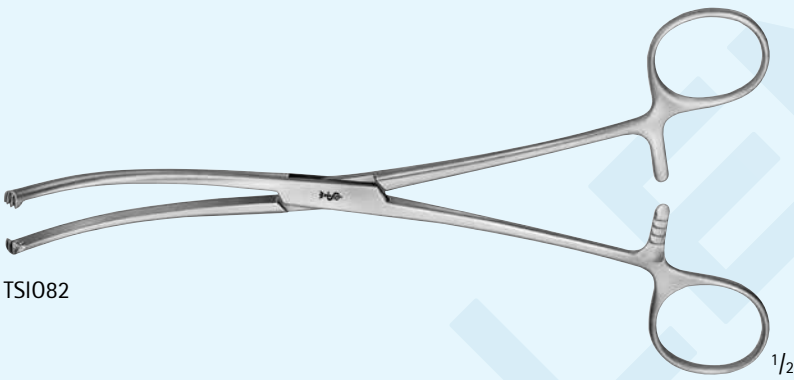
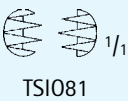
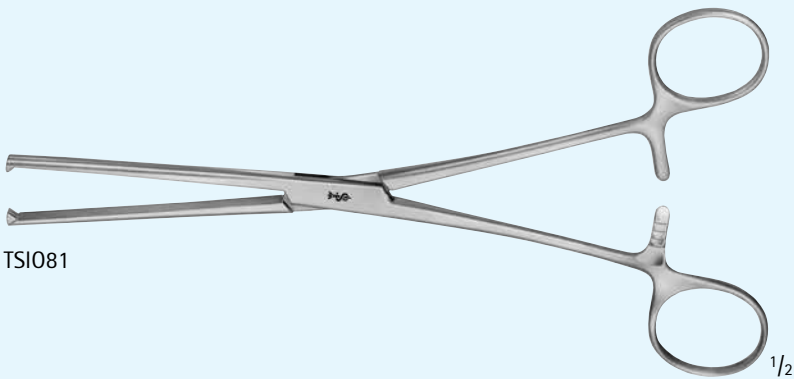
SMILLIE Meniscotome

Catalog Number	Jaw	Length (in.)
TSI078	STRAIGHT	6 3/4
TSI079	LEFT	6 3/4
TSI080	RIGHT	6 3/4



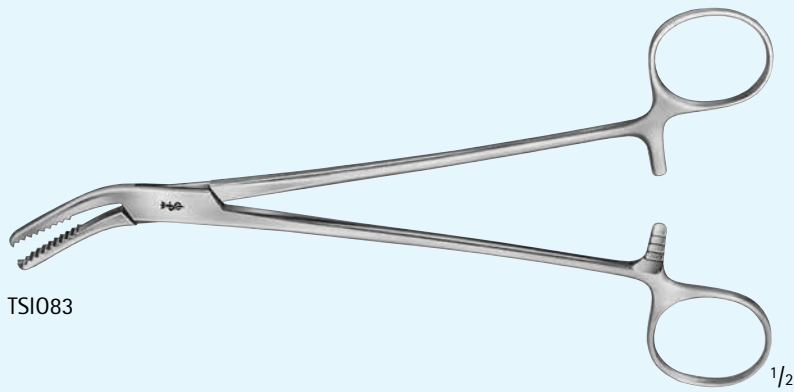
BIRCHER Cartilage Forceps

Catalog Number	Jaw	Length (in.)
TSI081	STR	7 7/8
TSI082	CVD	7 7/8



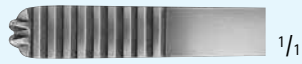
WELLER Cartilage Forceps

Catalog Number	Jaw	Length (in.)
TSI083	CVD	7 7/8



TSI083

1/2

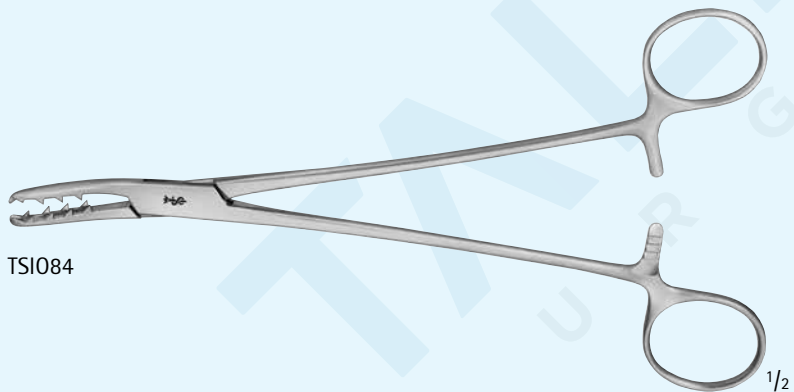


1/1

TSI083

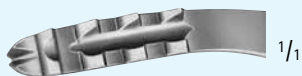
BIRCHER-GANSKE Cartilage Forceps

Catalog Number	Jaw	Length (in.)
TSI084	SLIGHT CVD	7 7/8



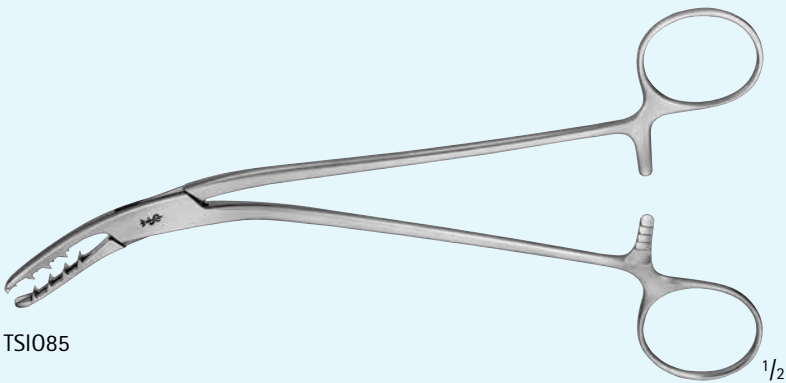
TSI084

1/2



1/1

TSI084



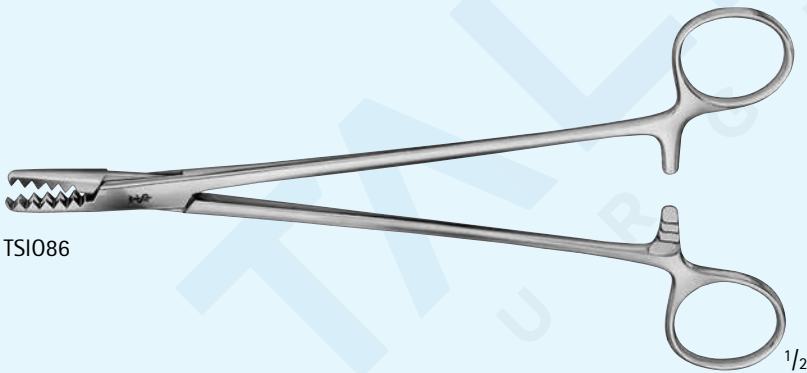
TSI085



TSI085

BIRCHER-GANSKE Cartilage Forceps
(continued)

Catalog Number	Jaw	Length (in.)
TSI085	CVD	7 7/8



TSI086



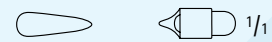
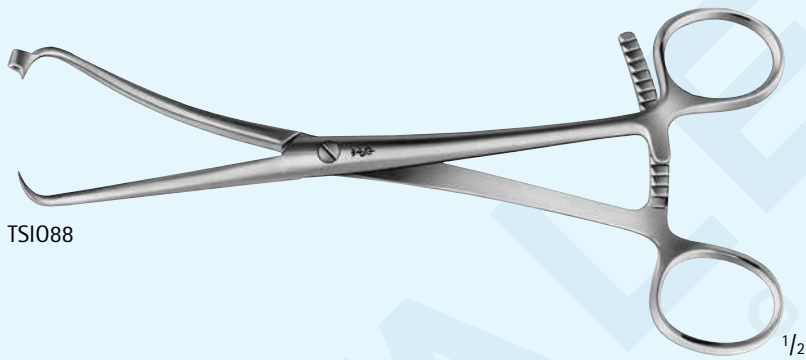
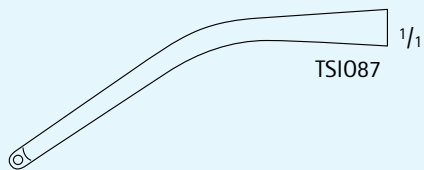
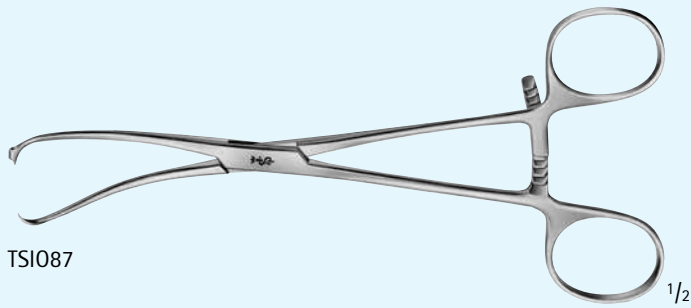
TSI086

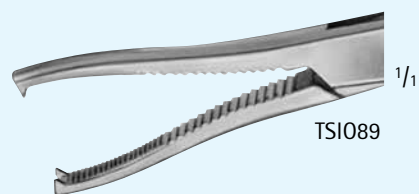
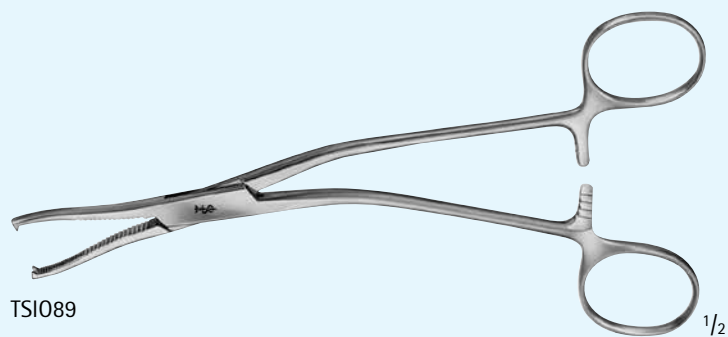
MARTIN Cartilage Forceps

Catalog Number	Jaw	Length (in.)
TSI086	STR	8

MEYER Reposition Forceps, F/ Wires

Catalog Number	For Wire Size	Length (in.)
TSI087	UP TO 1MM	6 3/4
TSI088	UP TO 2MM	8





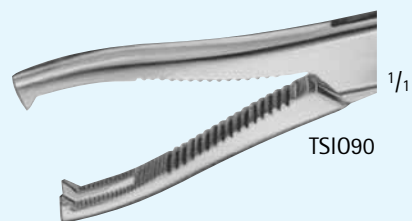
DINGMANN Bone Holding Forceps

Catalog Number	Teeth	Length (in.)
TSI089	2 x 2	7 1/4



DINGMANN Bone Holding Forceps

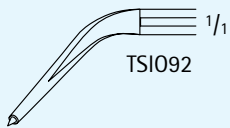
Catalog Number	Teeth	Shaft	Length (in.)
TSI090	2 x 2	CVD	7 1/4



Bone Holding Forceps

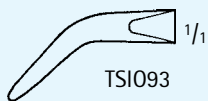
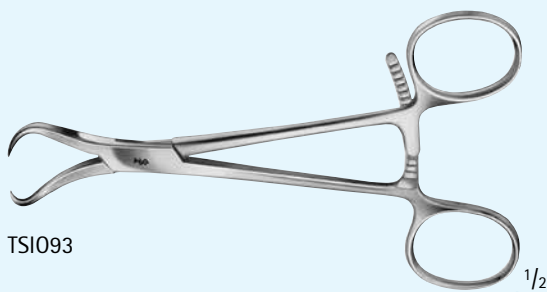
Catalog Number	Length (in.)
TSI091	8 1/4





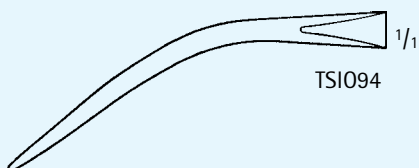
Finger Reposition Forceps, Stepped Tips

Catalog Number	Length (in.)
TSI092	3 3/4



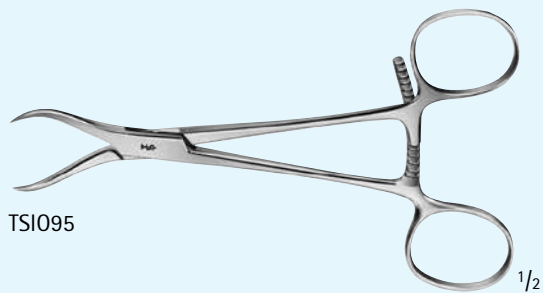
Finger Reposition Forceps, F/ Small Fragments

Catalog Number	Length (in.)
TSI093	5 1/4

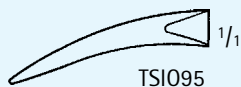


REILL Reposition Forceps

Catalog Number	Length (in.)
TSI094	6 3/4



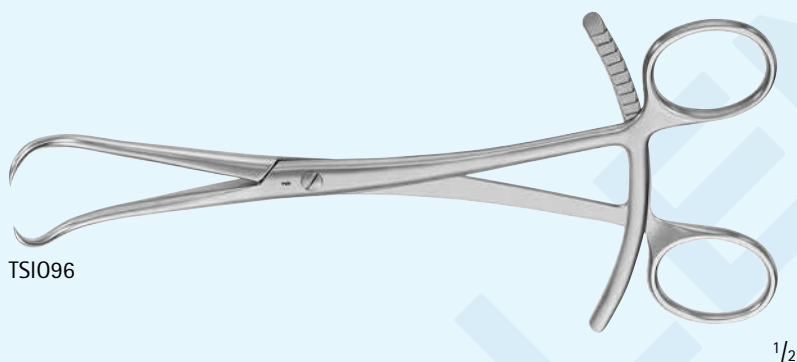
TSI095



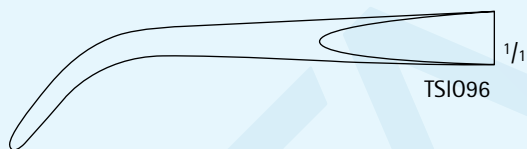
TSI095

Forceps for Maxillary Reposition

Catalog Number	Length (in.)
TSI095	5 1/4



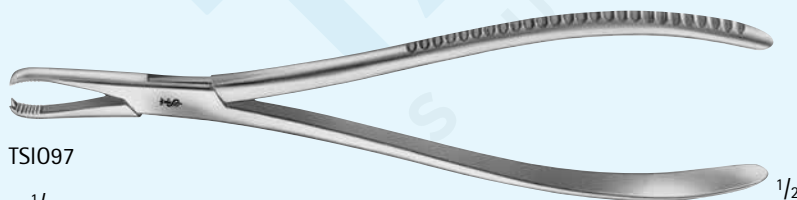
TSI096



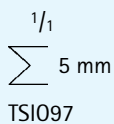
TSI096

Bone Reposition Forceps, Double Ratchet

Catalog Number	Length (in.)
TSI096	8



TSI097



TSI097

Bone Holding Forceps

Catalog Number	Length (in.)
TSI097	7 7/8

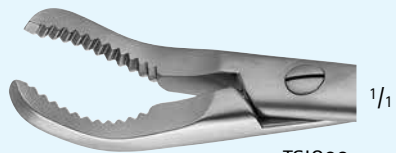
Bone Reduction Forceps

Catalog Number	Length (in.)
TSI098	5 1/2



TSI098

1/2

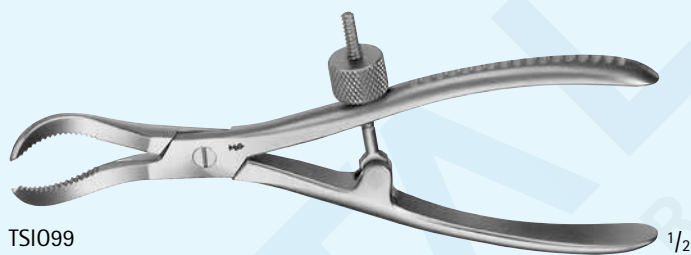


TSI098

1/1

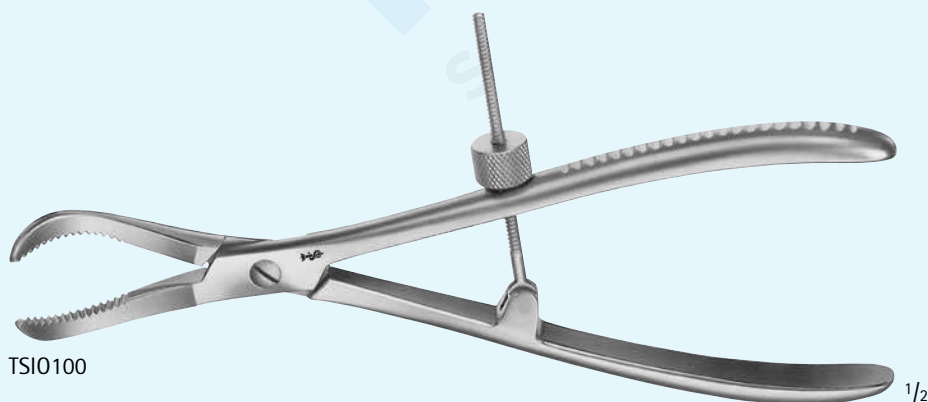
Bone Reduction Forceps, W/ Screw Lock and Thread Fixation

Catalog Number	Length (in.)
TSI099	6 3/4
TSI0100	9 1/4



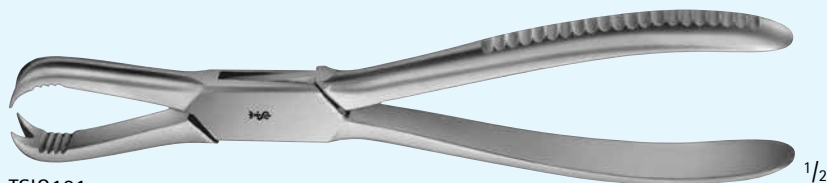
TSI099

1/2

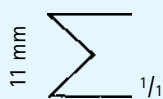


TSI0100

1/2



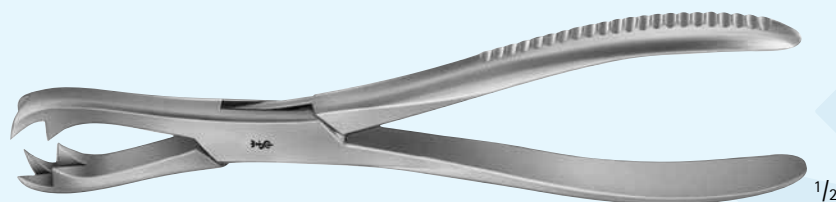
TSIO101



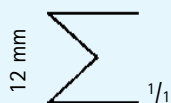
TSIO101

LANGENBECK Bone Holding Forceps

Catalog Number	Tip Size (mm)	Length (in.)
TSIO101	11	8



TSIO102



TSIO102

FERGUSON Bone Holding Forceps

Catalog Number	Tip Size (mm)	Length (in.)
TSIO102	12	8



TSIO103



TSIO103



TSIO104



TSIO104

SEMB Rib/Bone Holding Forceps

Catalog Number	Tip Size (mm)	Item	Length (in.)
TSIO103	8	W/O RATCHET	7 1/2
TSIO104	8	W/ RATCHET	7 1/2

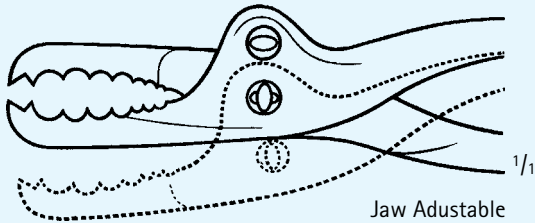


FARABEU Bone Holding Forceps

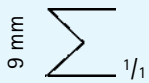
Catalog Number	Tip Size (mm)	Length (in.)
TSIO105	9	9
TSIO106	11	10

TSIO105

1/2



Jaw Adjustable

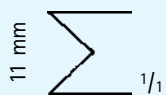


TSIO105



TSIO106

1/2



TSIO106

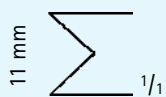
FARABEU-LAMBOTTE Forceps,
W/ Ratchet

Catalog Number	Tip Size (mm)	Length (in.)
TSIO107	11	10

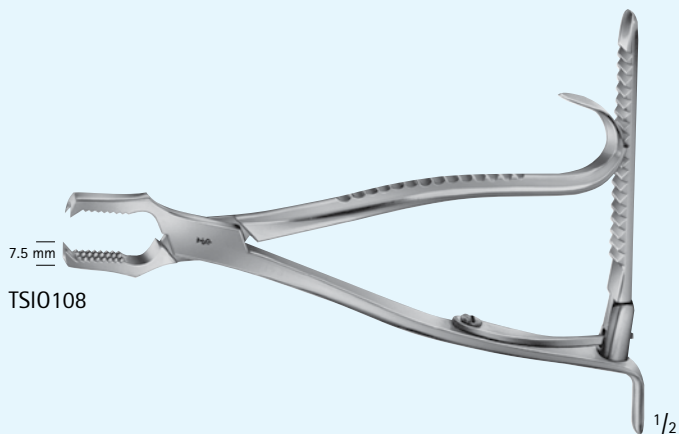


TSIO107

1/2

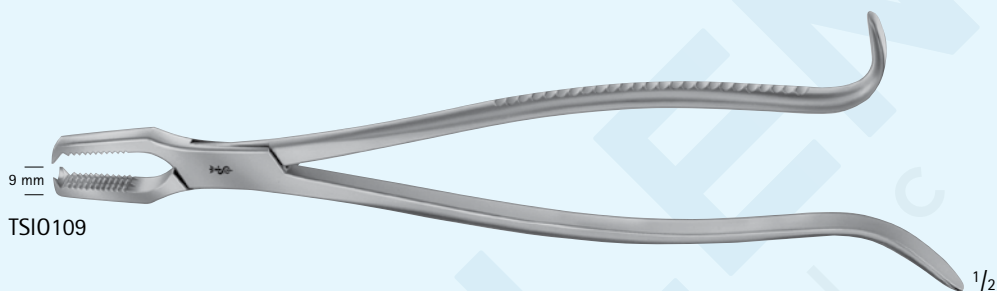


TSIO107



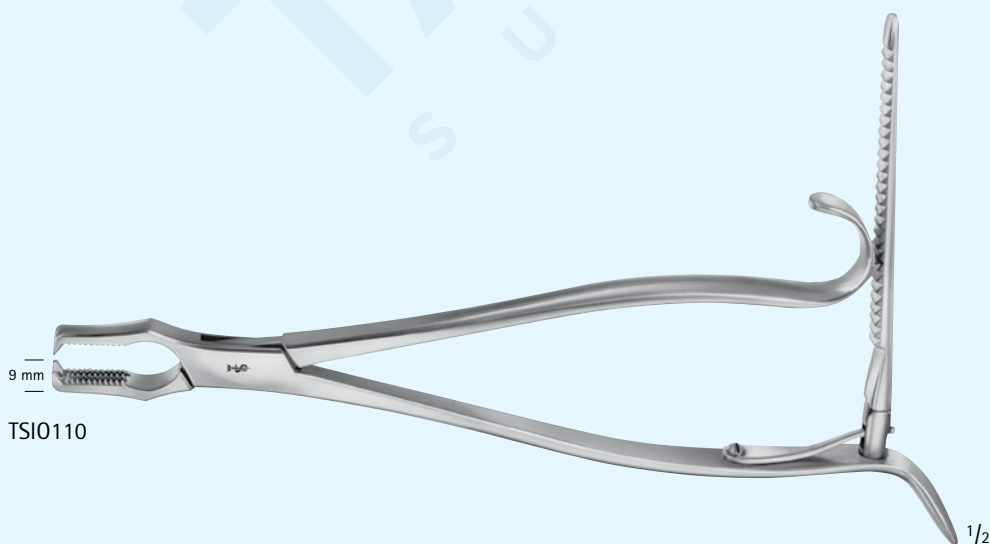
KERN Mini Bone Holding Forceps,
W/ Ratchet

Catalog Number	Tip Size (mm)	Length (in.)
TSIO108	7.5	6 1/8



KERN-LANE Bone Holding Forceps

Catalog Number	Tip Size (mm)	Length (in.)
TSIO109	9	9 1/2

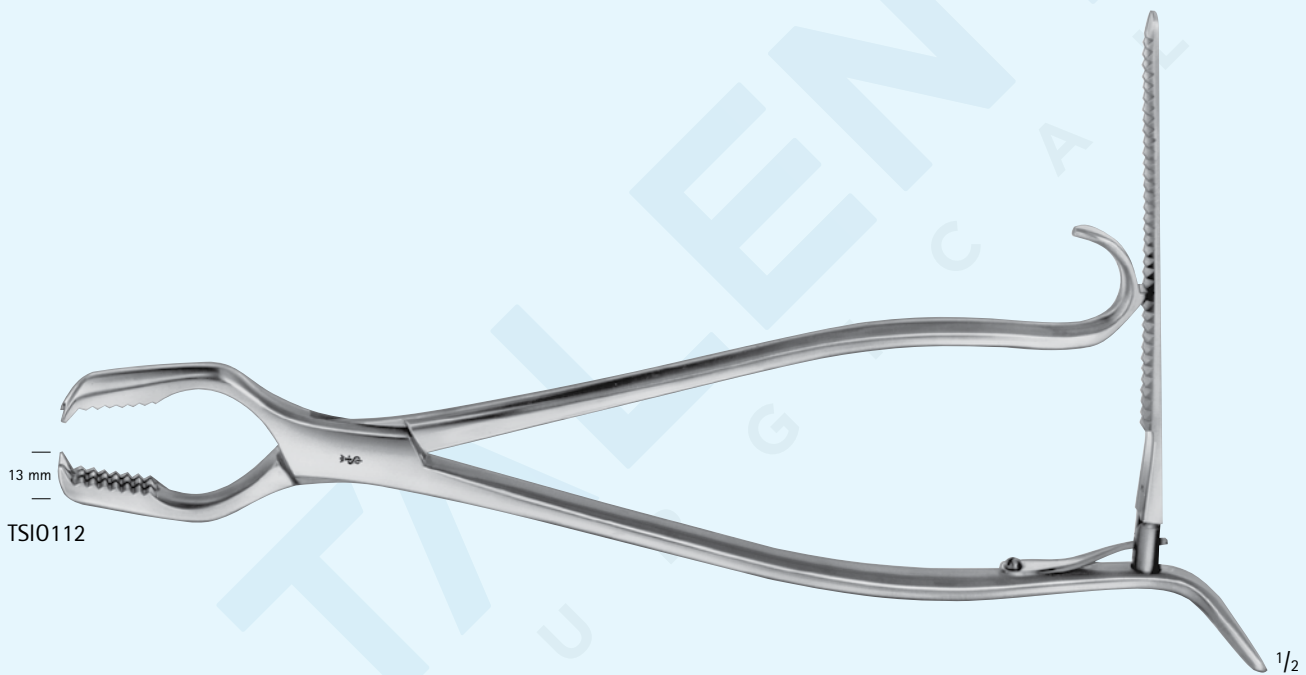
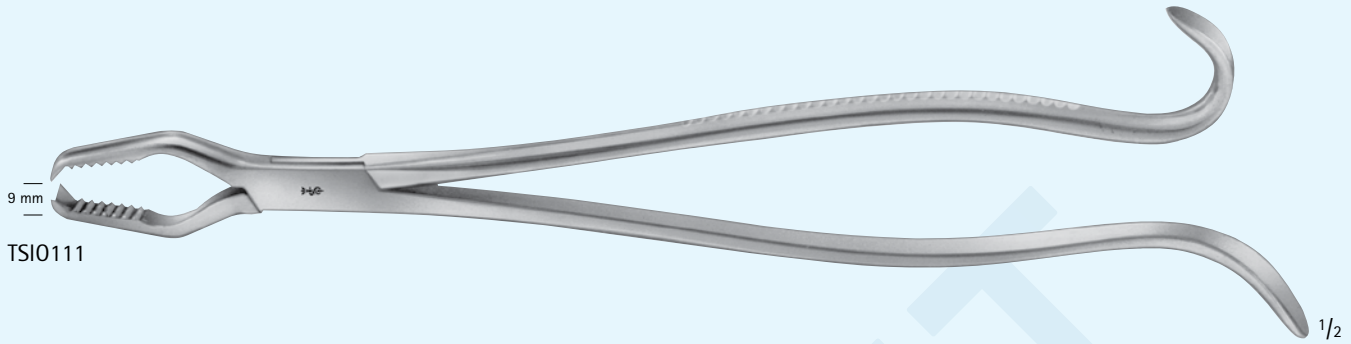


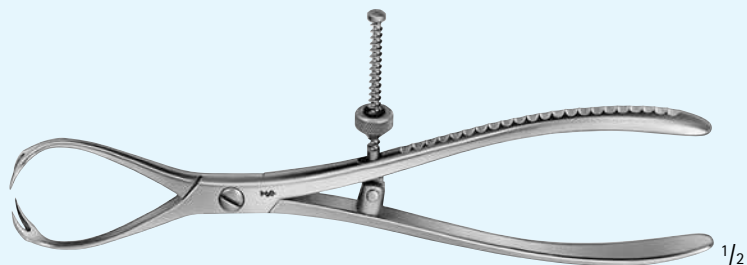
KERN-LANE Bone Holding
Forceps, W/ Ratchet

Catalog Number	Tip Size (mm)	Length (in.)
TSIO110	9	9 1/2

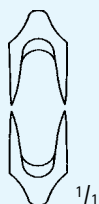
LANE Bone Holding Forceps

Catalog Number	Tip Size (mm)	Description	Length (in.)
TSIO111	9	W/O RATCHET	13
TSIO112	13	W/ RATCHET	12 1/2





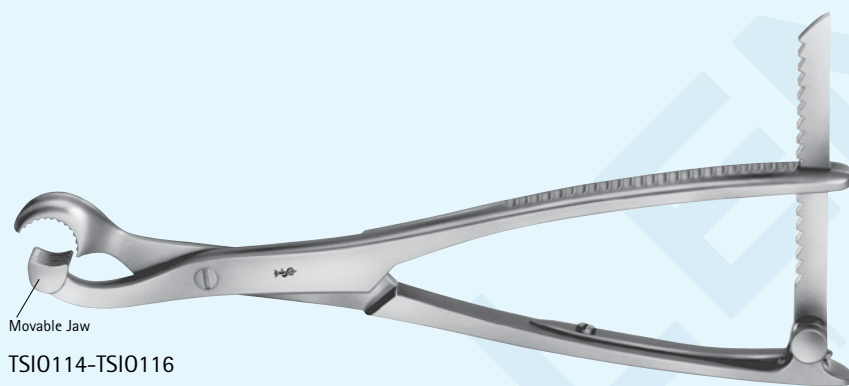
TSIO113



TSIO113

Patella Forceps W/ Screw Lock

Catalog Number	Length (in.)
TSIO113	7 1/4



Movable Jaw

TSIO114-TSIO116



TSIO114



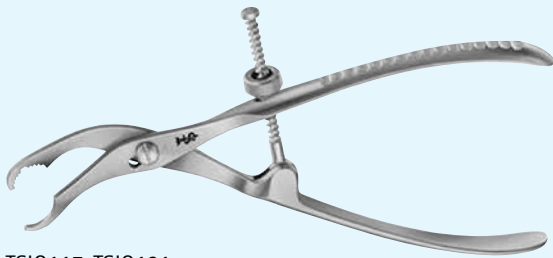
TSIO115



TSIO116

LAMBOTTE Bone Holding Forceps,
W/ Movable Jaw and Ratchet

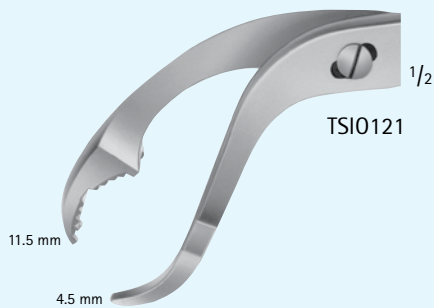
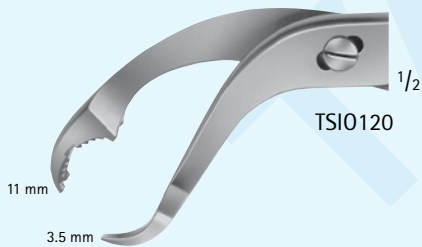
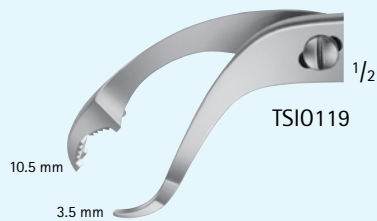
Catalog Number	Tip Size (mm)	Length (in.)
TSIO114	10	8 3/4
TSIO115	13	10 1/4
TSIO116	16	13



TSIO117-TSIO121

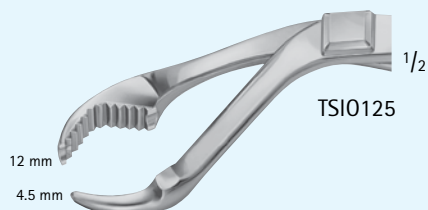
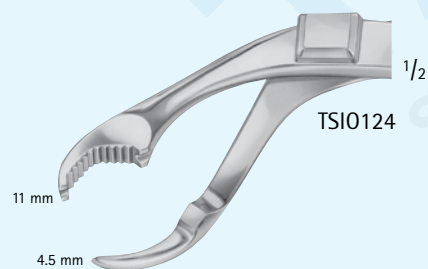
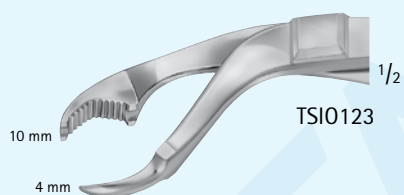
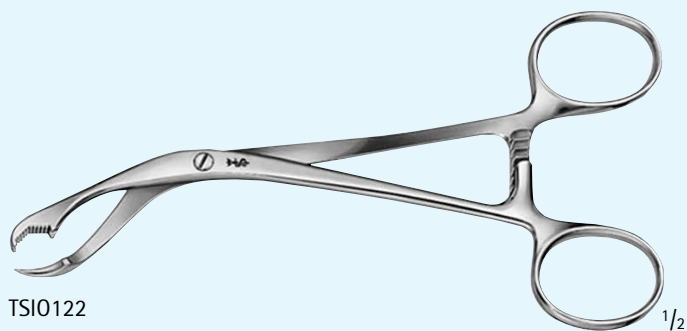
Self-Centering Forceps, W/ Screw Lock and Thread Fixation

Catalog Number	Tip Size (mm)	Length (in.)
TSIO117	3/3	5 3/4
TSIO118	7 / 2.5	7 1/2
TSIO119	10.5 / 3.5	9 1/2
TSIO120	11 / 3.5	10 1/4
TSIO121	11.5 / 4.5	10 3/4



VERBRUGGE Bone Forceps

Catalog Number	Tip Size (mm)	Length (in.)
TSIO122	5	6 7/8
TSIO123	10 / 4.0	9 3/4
TSIO124	11 / 4.5	10 1/2
TSIO125	12 / 4.5	10 5/8





TSI0126-TSI0127

LOWMAN Bone Clamp

Catalog Number	Length (in.)
TSI0126	6 7/8
TSI0127	8



TSI0128

LOWMAN-GERSTER Bone Clamp

Catalog Number	Length (in.)
TSI0128	8 1/4

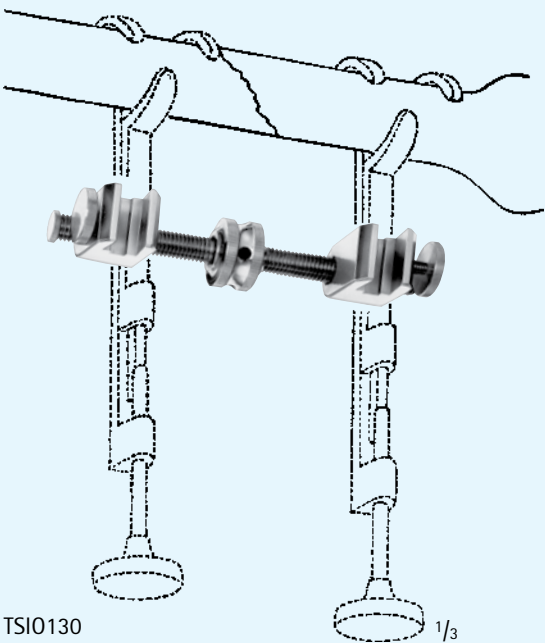


TSI0129

LOWMAN-HOGLUND Bone Clamp

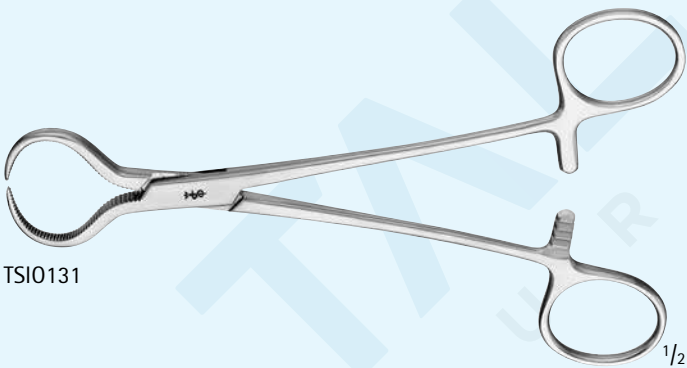
Catalog Number	Length (in.)
TSI0129	6 7/8





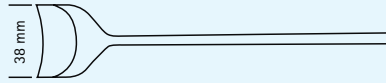
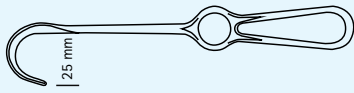
GERSTER Traction Bar
F/F0190R-F0193R

Catalog Number
TSIO130



LEWIN Bone Clamp

Catalog Number	Tip	Length (in.)
TSIO131	SERR	7



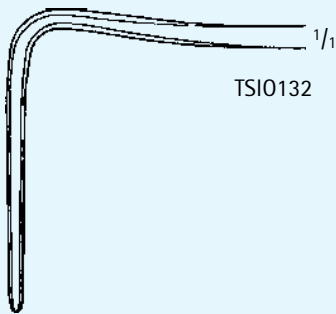
Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width



Knee Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO132	39 x 9	8 7/8

TSIO132



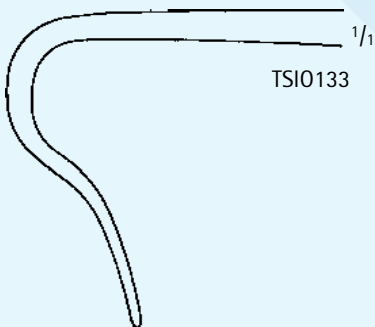
TSIO132



BLOUNT Knee Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO133	40 x 4	6 7/8

TSIO133



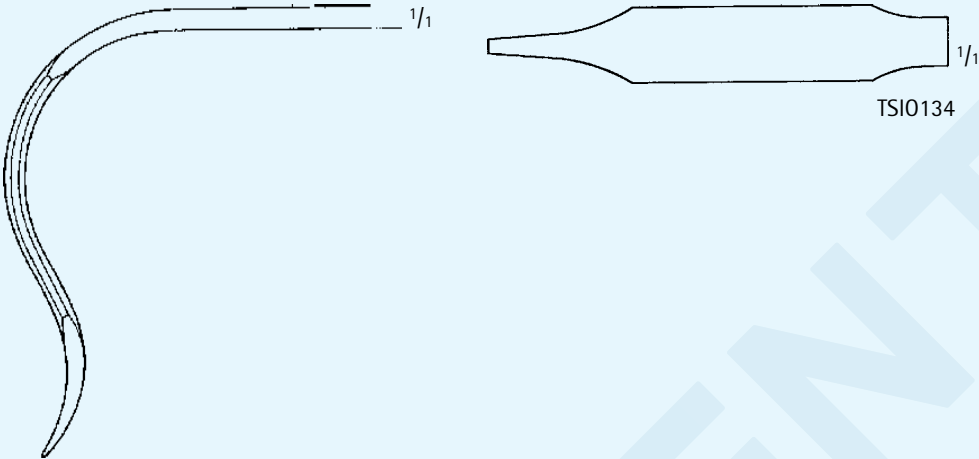
TSIO133



TSIO134

Knee Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO134	56 x 10	6 3/4



TSIO134



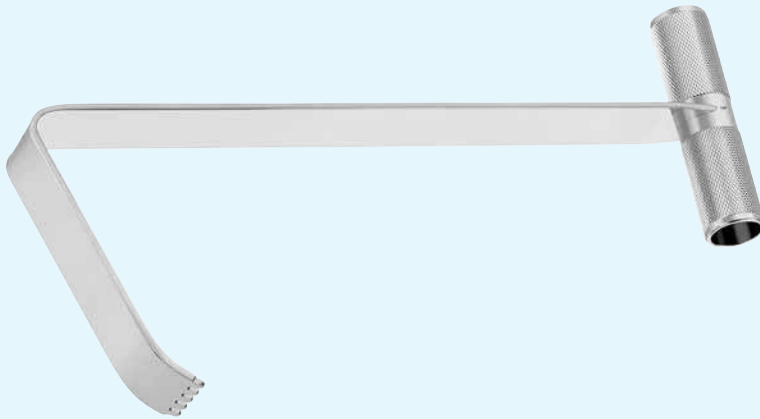
TSIO135

DOANE "Z" Knee Retractor

Catalog Number	Blade Size (mm)	Size
TSIO135	55 x 75	MEDIUM
TSIO136	66 x 80	LARGE



TSIO136



TSIO137-TSIO139

T-Handle Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO137	120 x 32	7
TSIO138	120 x 32	11
TSIO139	120 x 32	13



TSIO140-TSIO142

HIBBS Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO140	25 x 75	9 1/8
TSIO141	20 x 50	9 1/8
TSIO142	13 x 25	9 1/8



TSIO140



TSIO141



TSIO142

TAYLOR Spinal Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO143	30 x 70	7 1/4
TSIO144	30 x 100	7 7/8



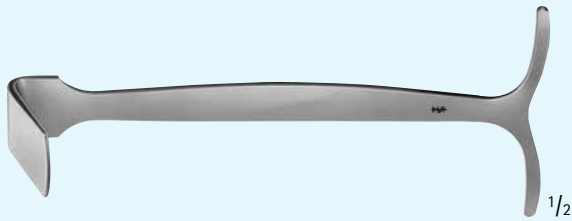
TSIO143-TSIO144



1/1
TSIO143



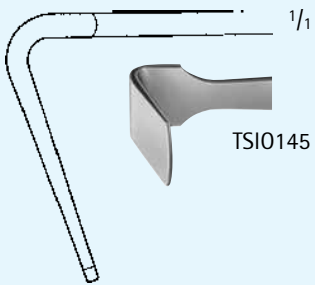
1/1
TSIO144



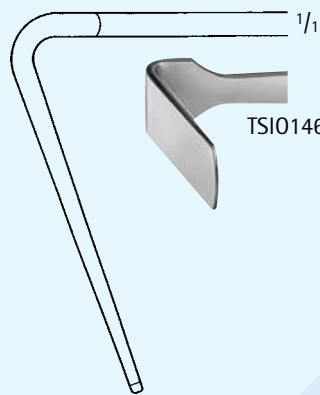
TSIO145-BT425R

SMILLIE Retractor

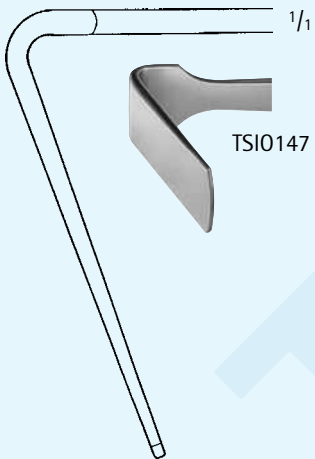
Catalog Number	Blade Size (mm)	Length (in.)
TSIO145	32 x 19	5 1/2
TSIO146	48 x 19	5 1/2
TSIO147	57 x 19	5 1/2
TSIO148	52 x 13	5 1/2
TSIO149	12 x 13	5 1/2



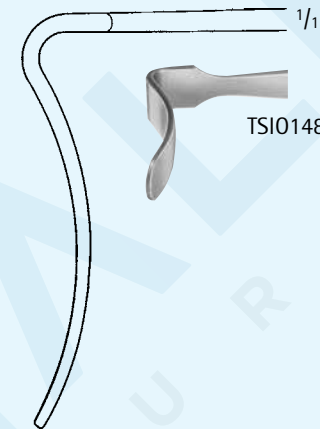
TSIO145



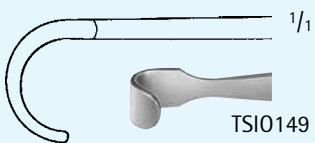
TSIO146



TSIO147



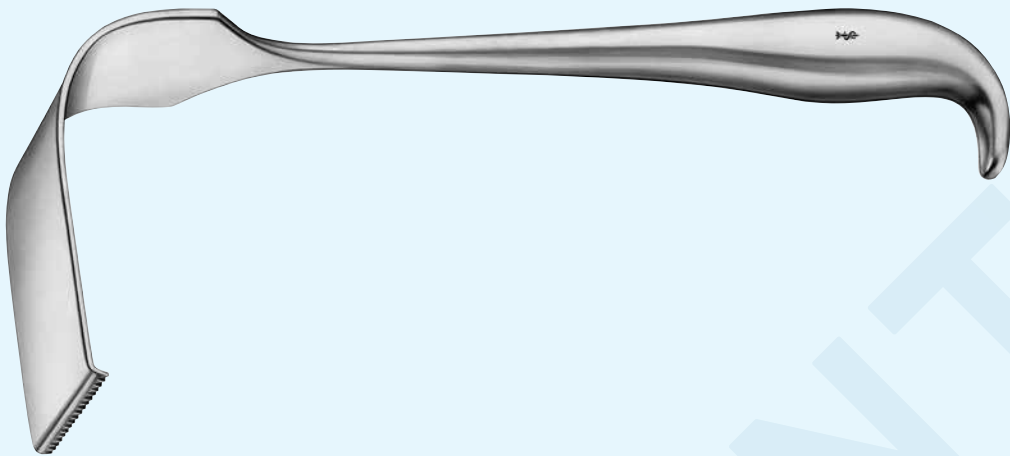
TSIO148



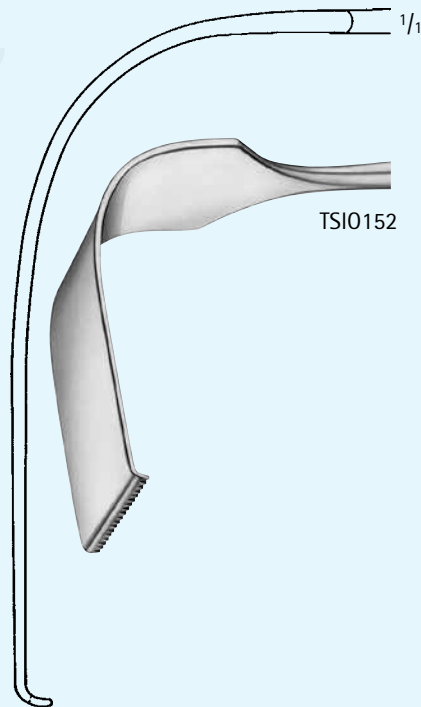
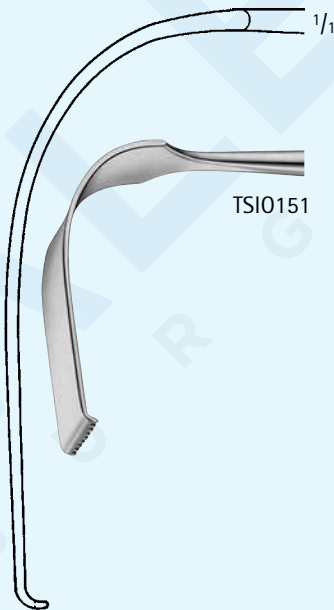
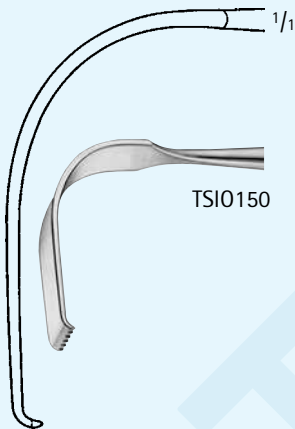
TSIO149

MEYERDING Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO150	52 x 16	9
TSIO151	76 x 25	9
TSIO152	89 x 50	10



TSIO150-TSIO152



AUFRANC Cobra Retractor

Catalog Number	Tip	Length (in.)
TSIO153	SMOOTH, POINTED	10
TSIO154	SMOOTH, BLUNT	10



1/2

TSIO153-TSIO154

1/1

1/1

TSIO153-TSIO154

AUFRANC Cobra Retractor

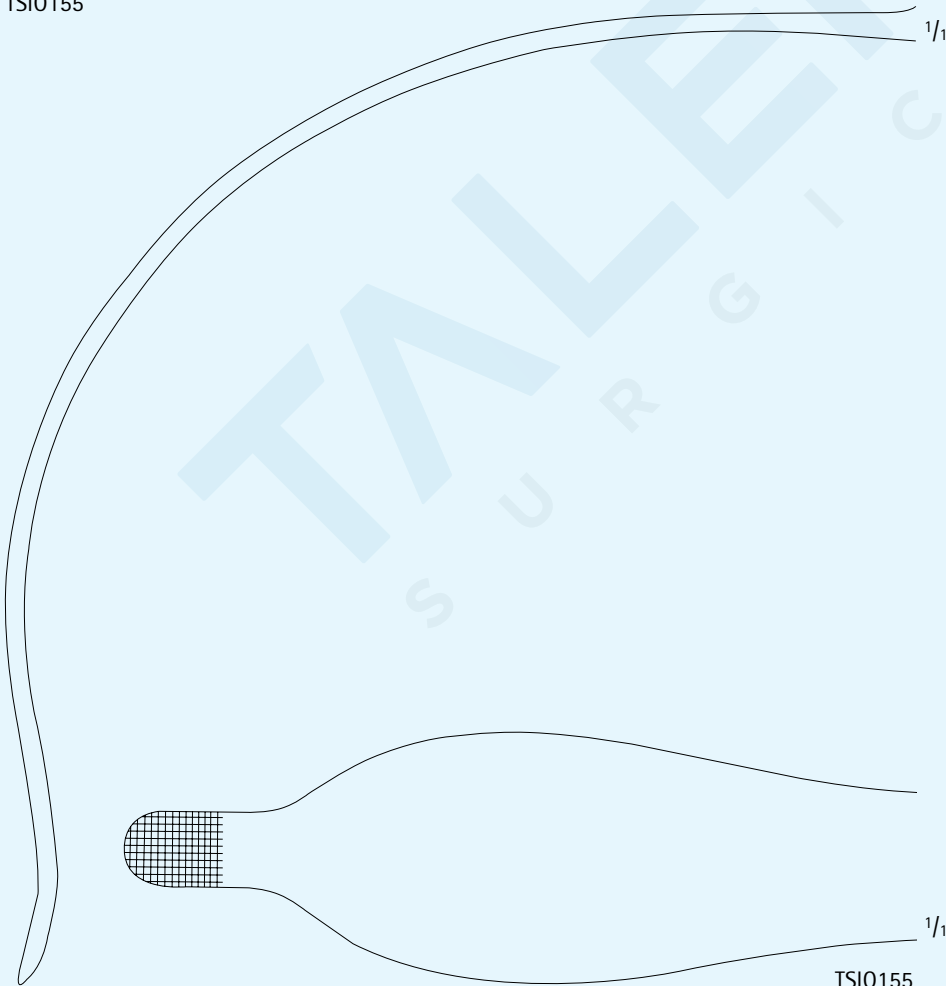
Catalog Number	Tip	Length (in.)
TSIO155	SERR, BLUNT	10



TSIO155

1/2

1/1



1/1

TSIO155



TSIO156-TSIO158

CLOWARD Style Cervical Retractor
W/ Lip

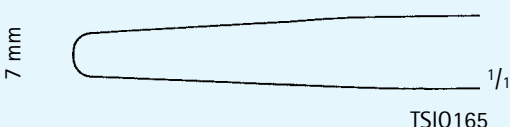
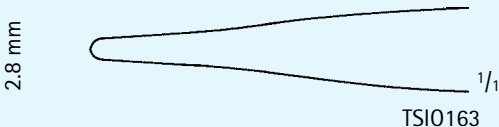
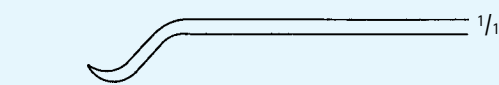
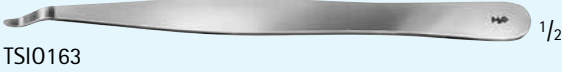
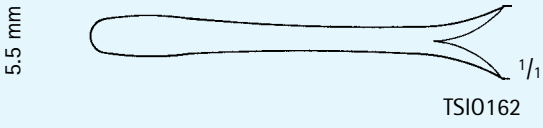
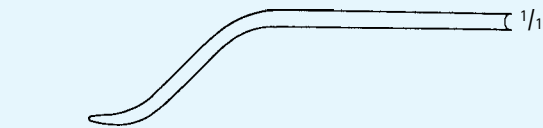
Catalog Number	Width (mm)	Length (in.)
TSIO156	18	7
TSIO157	20	7
TSIO158	23	7



TSIO159-TSIO161

CLOWARD Style Cervical Retractor
W/O Lip

Catalog Number	Width (mm)	Length (in.)
TSIO159	18	7
TSIO160	20	7
TSIO161	23	7

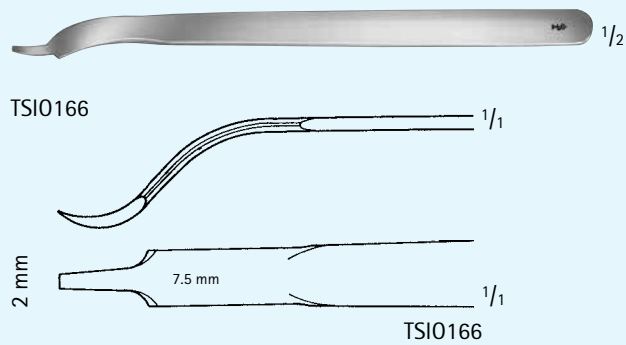


HAYES Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSI0162	5.5	6 1/8
TSI0163	2.8	5 1/2
TSI0164	4.5	6
TSI0165	7	6

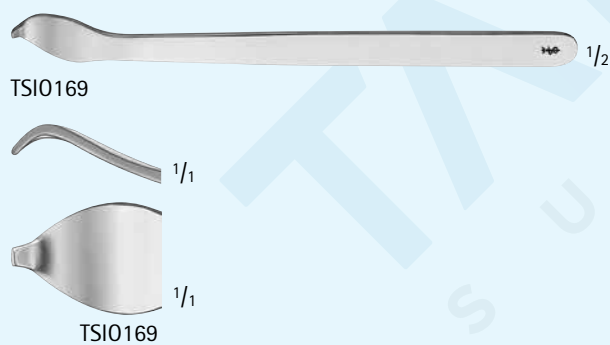
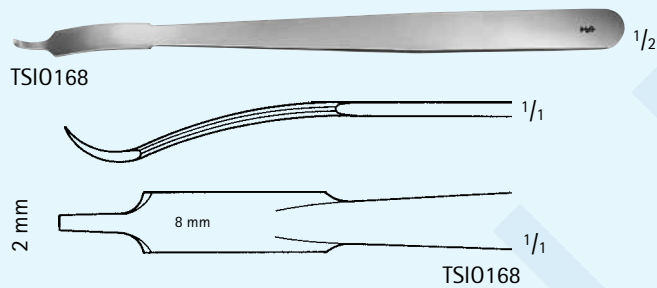
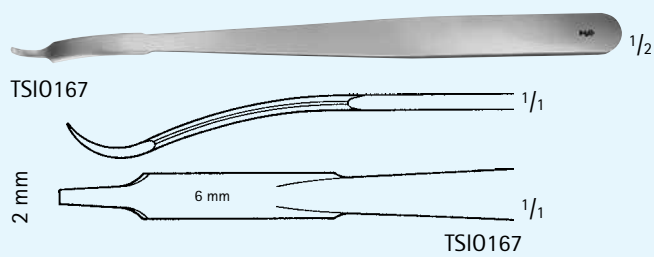
BUCK-GRAMCKO Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO166	2/7.5	6



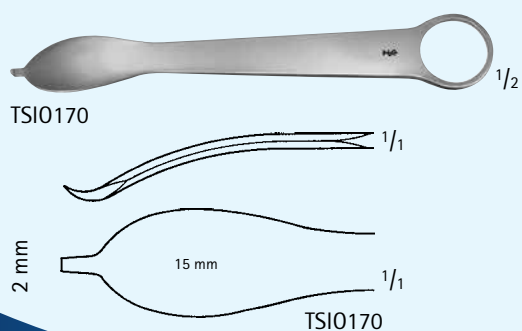
HOHMANN Bone Retractor

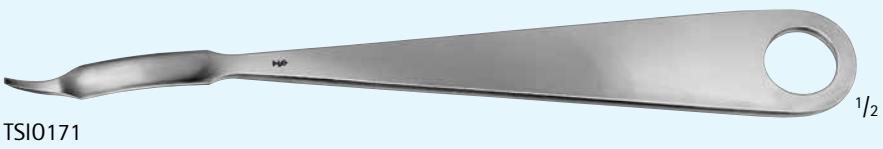
Catalog Number	Blade Size (mm)	Length (in.)
TSIO167	2/6	6 1/4
TSIO168	2/8	6 1/4
TSIO169	2/15	6



Baby HOHMANN Retractor

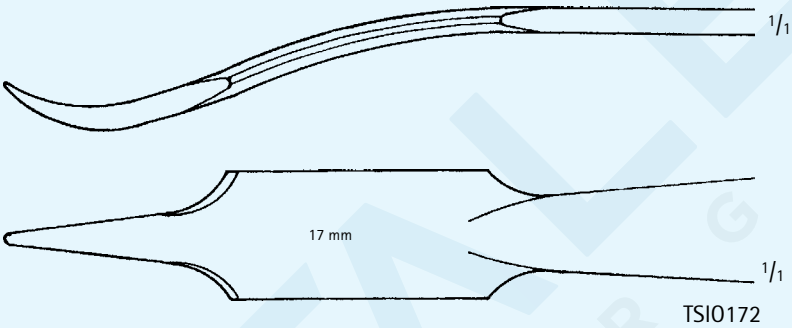
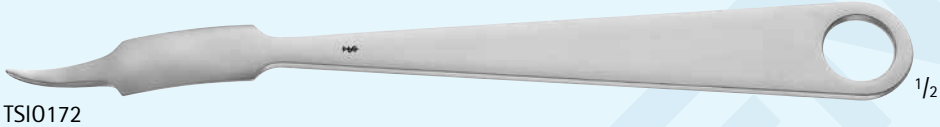
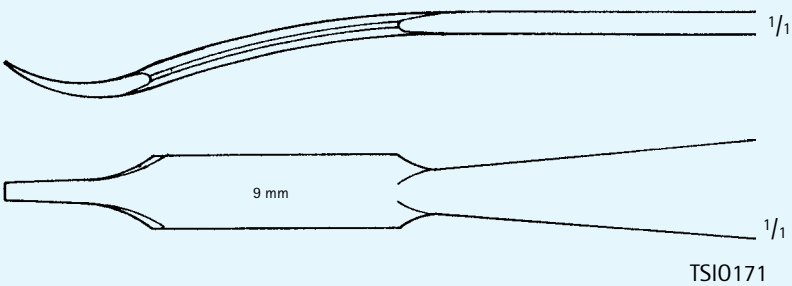
Catalog Number	Blade Size (mm)	Length (in.)
TSIO170	2/15	5





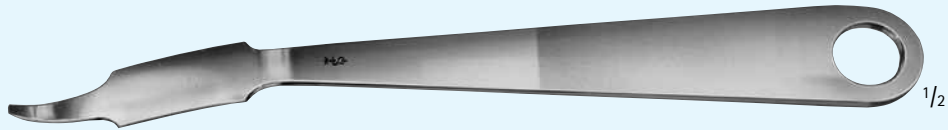
HOHMANN Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSI0171	9	8 3/4
TSI0172	17	9 1/2

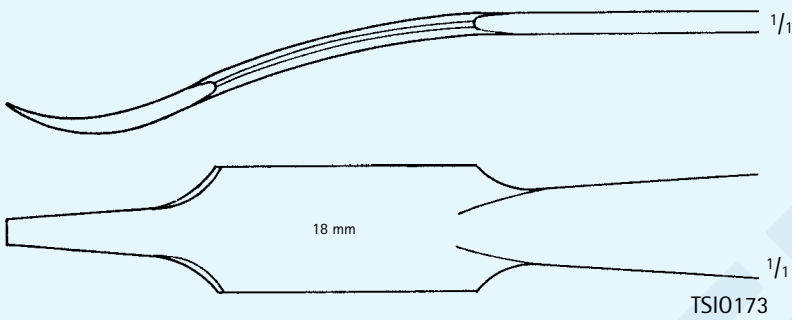


HOHMANN Bone Retractor (continued)

Catalog Number	Blade Size (mm)	Length (in.)
TSI0173	18	9 1/2
TSI0174	25	10 5/8



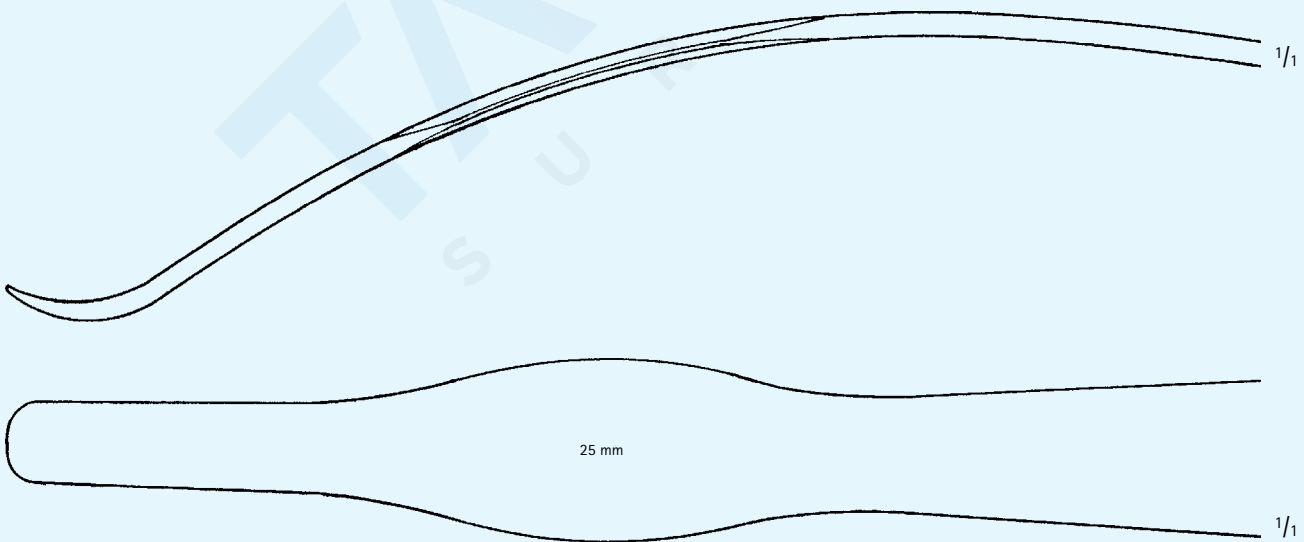
TSI0173



TSI0173



TSI0174



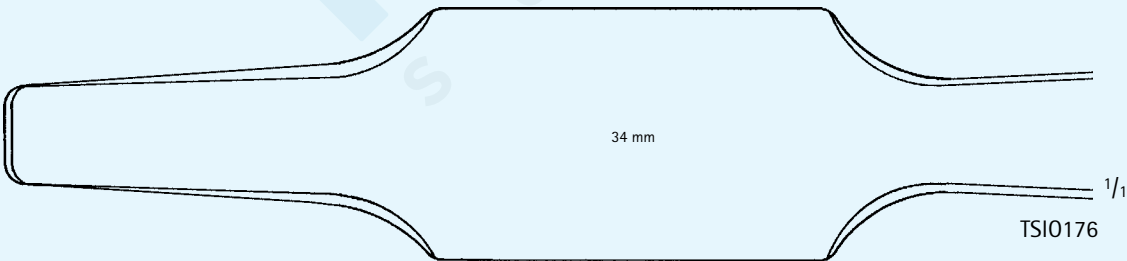
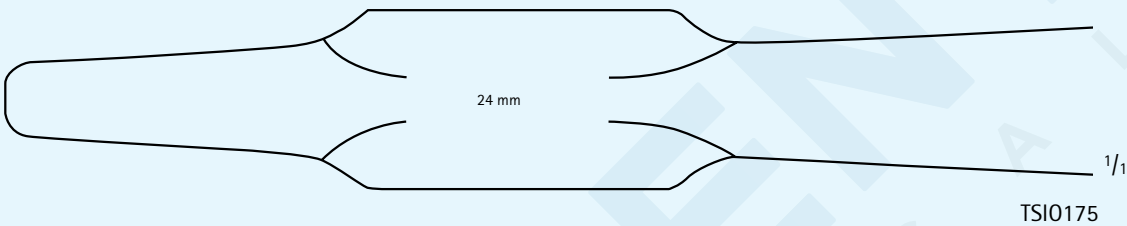
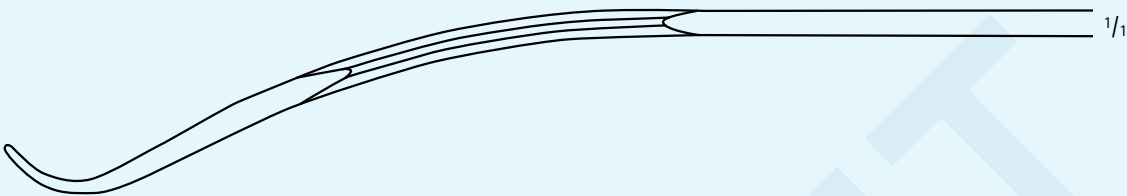
TSI0174

HOHMANN Bone Retractor (continued)

Catalog Number	Blade Size (mm)	Length (in.)
TSIO175	24	10 1/4
TSIO176	34	11 1/4



TSIO175-TSIO176

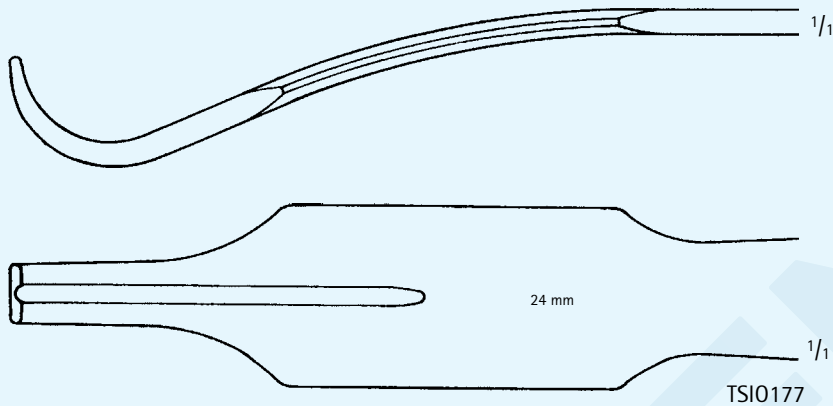


LANGE-HOHMANN Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSI0177	24	9 3/4



TSI0177

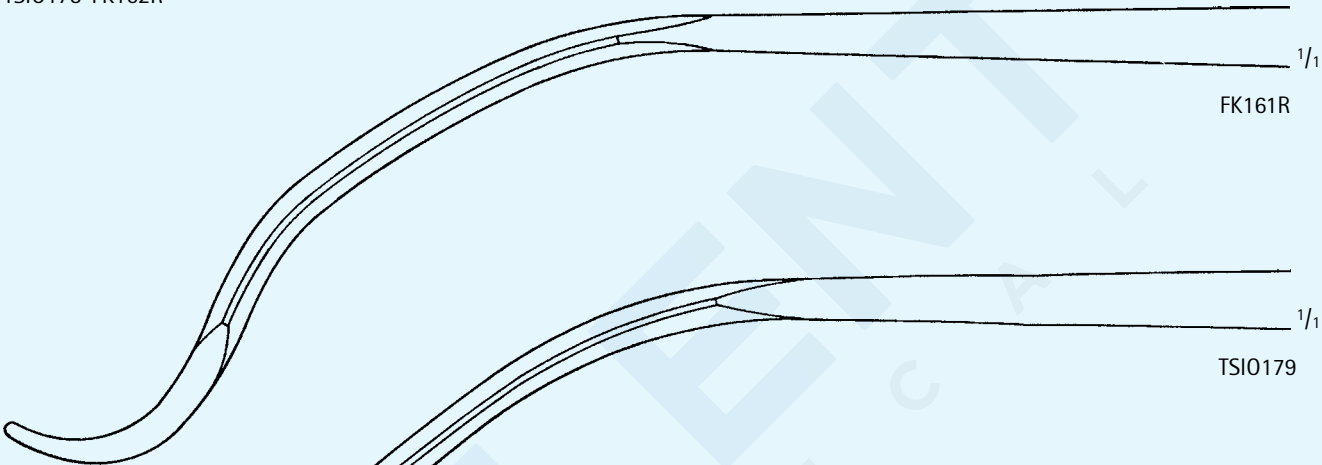


LANGE-HOHMANN Bone Retractor
(continued)

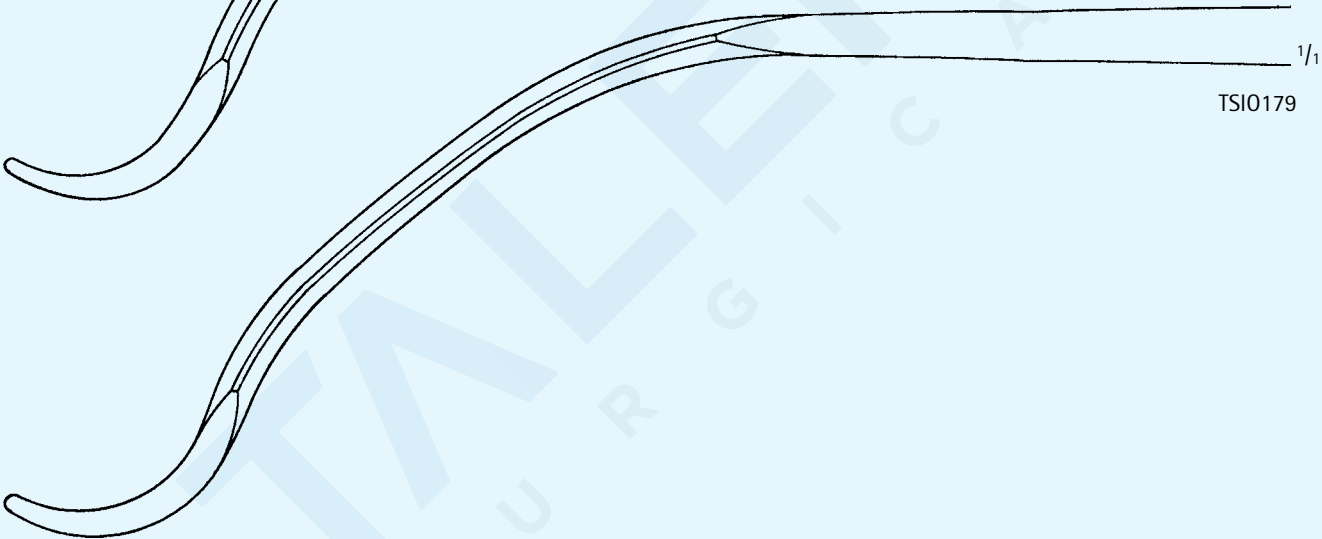
Catalog Number	Blade Size (mm)	Length (in.)
TSIO178	30	10 1/2
TSIO179	33	11



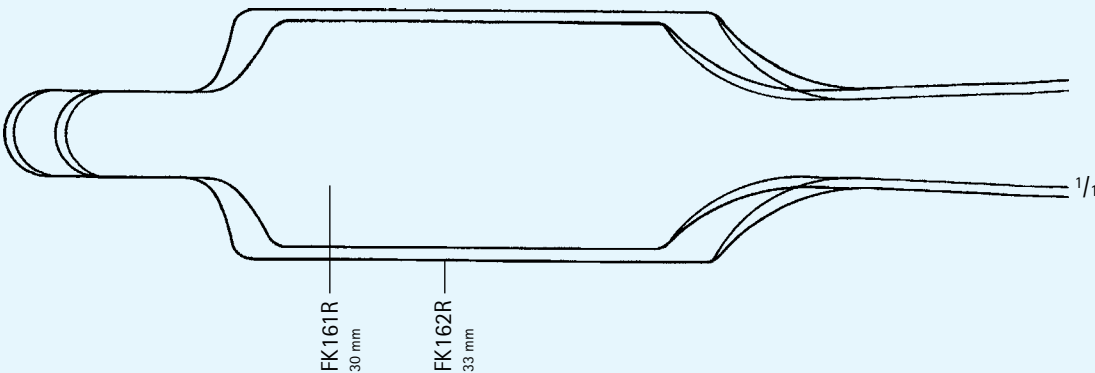
TSIO178-FK162R



FK161R

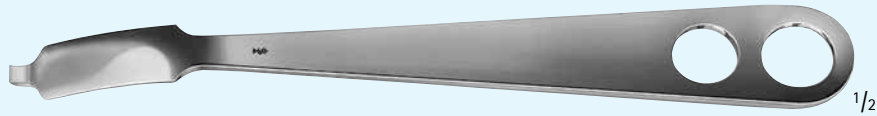


TSIO179



FK161R
30 mm

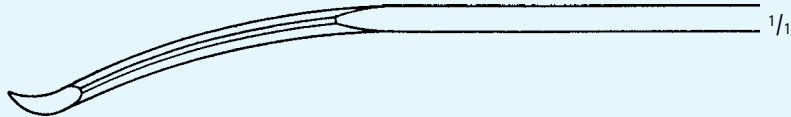
FK162R
33 mm



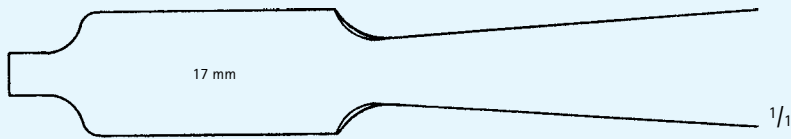
TSIO180

HOHMANN (WAGNER) Humoral Head Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO180	17	8 3/4



1/1



1/1

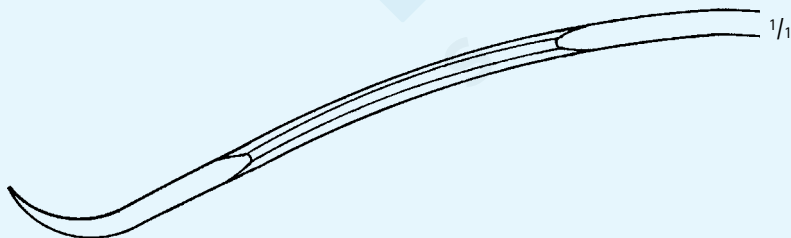
TSIO180



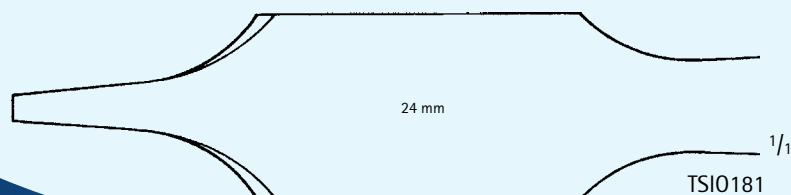
TSIO181

HOHMANN (ALDINGER) Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO181	24	10 5/8

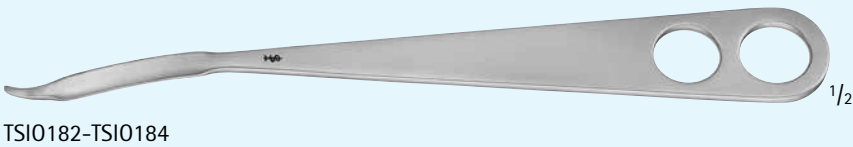


1/1



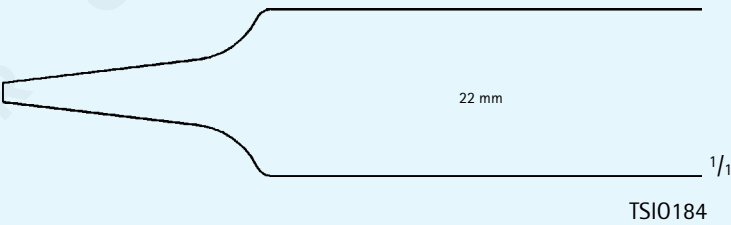
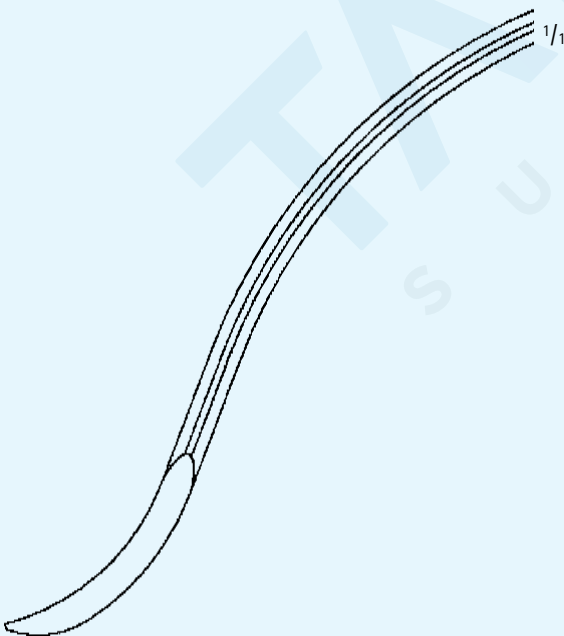
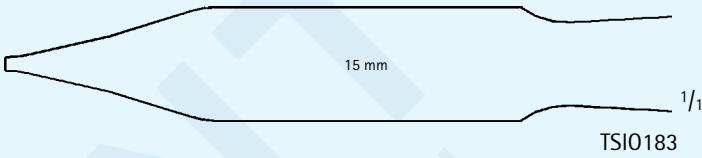
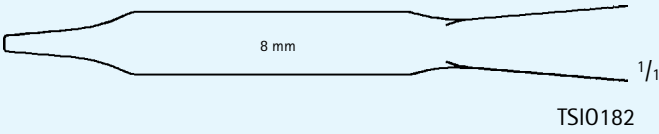
1/1

TSIO181



HOHMANN Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO182	8	8 3/4
TSIO183	15	9 3/4
TSIO184	22	11 3/4

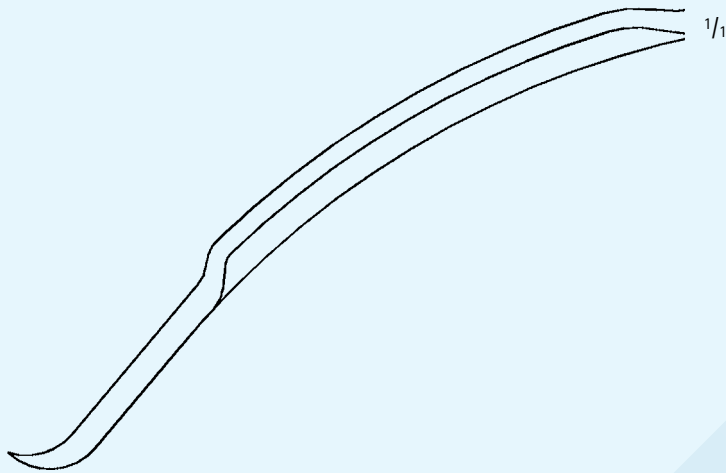


HOHMANN Bone Retractor (continued)

Catalog Number	Blade Size (mm)	Length (in.)
TSI0185	43	9

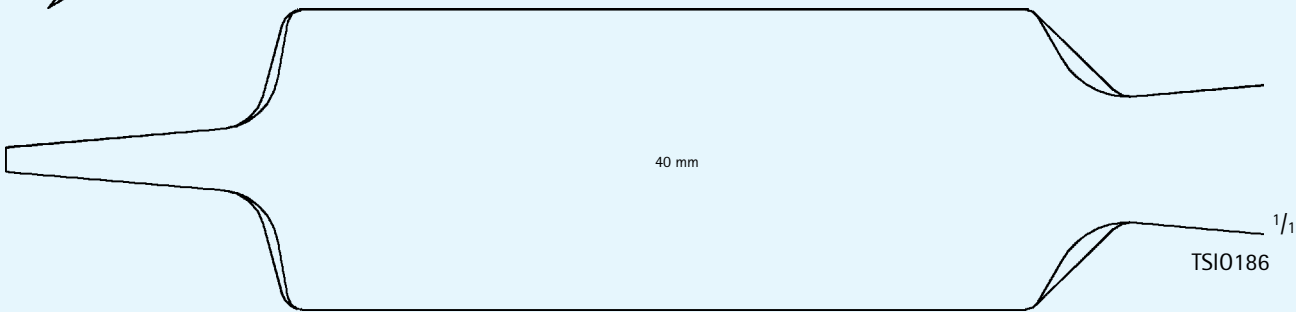
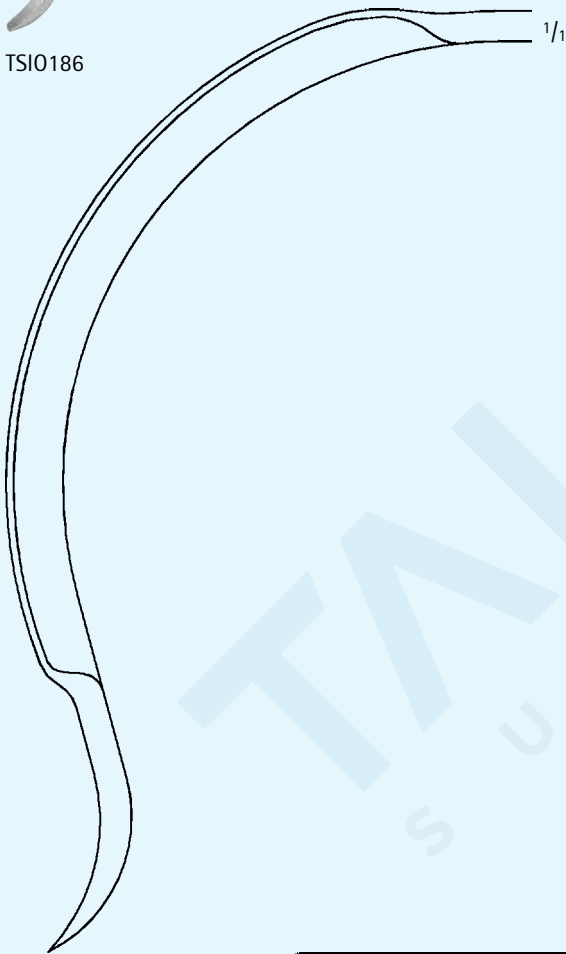
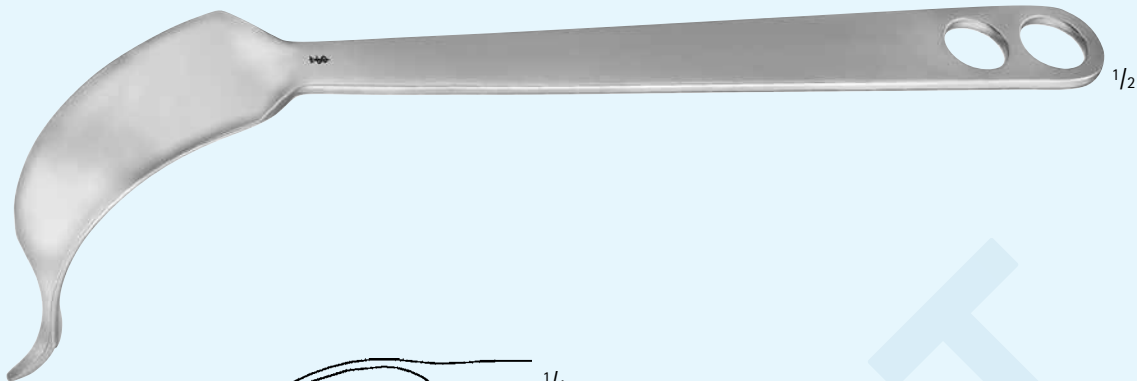


TSI0185



HOHMANN Bone Retractor (continued)

Catalog Number	Blade Size (mm)	Length (in.)
TSIO186	40	11 1/2



**SCHUMACHER Modified WAGNER
Bone Retractor**

Catalog Number	Blade Size (mm)	Length (in.)
TSIO187	37	14



TSIO187

TSIO187

SCHUMACHER Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO188	35	11 1/2



TSIO188

1/2

1/1

1/2

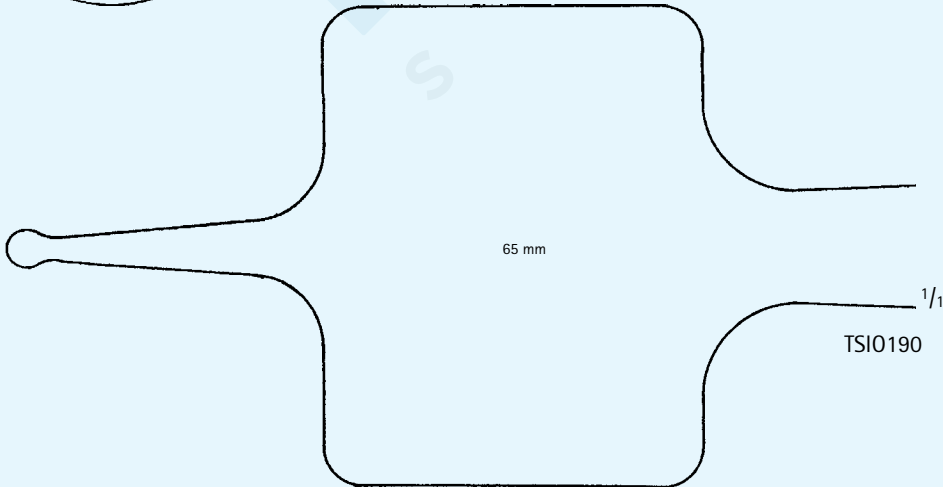
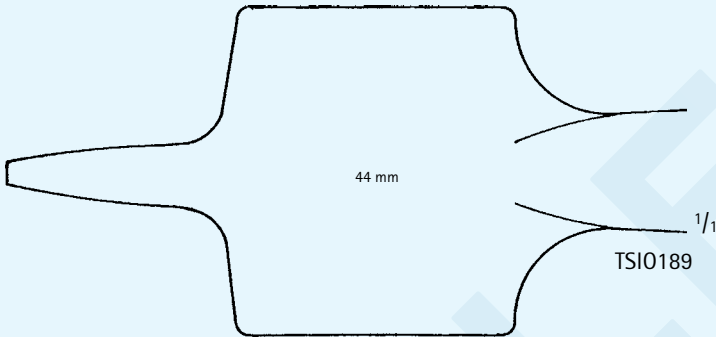
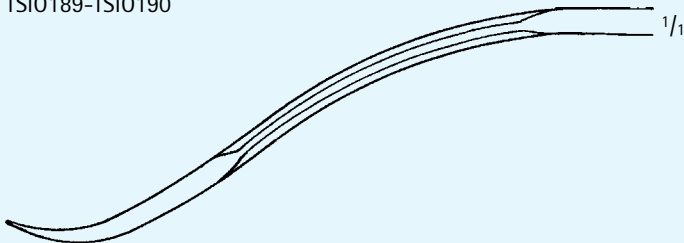
TSIO188

VERBRUGGE-MÜLLER Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO189	44	9 1/2
TSIO190	65	10



TSIO189-TSIO190

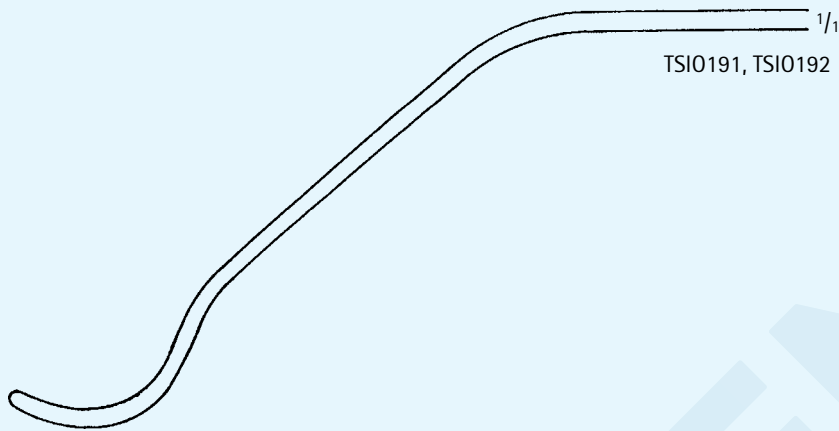




BENNETT Bone Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO191	65	9 1/2
TSIO192	44	9 1/2

TSIO191, TSIO192



TSIO191, TSIO192

MURPHY-LANE Bone Skid

Catalog Number	Blade Size (mm)	Length (in.)
TSIO193	18 / 30	11 3/4



TSIO193



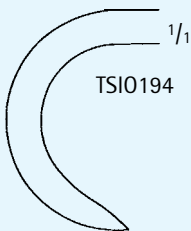
TSIO193

Bone Hook

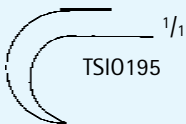
Catalog Number	Tip	Blade End	Length (in.)
TSIO194	SHARP	1 PRONG	9 5/8



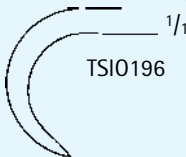
TSIO194



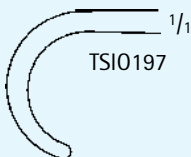
TSIO195



TSIO196



TSIO197

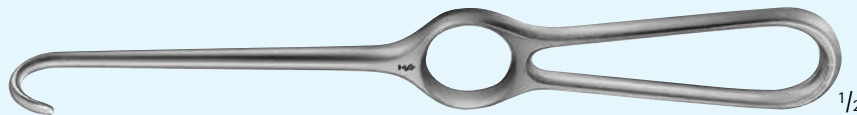
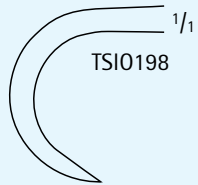


KOCHER Bone Hook

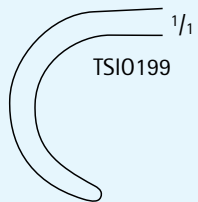
Catalog Number	Tip	Blade End	Length (in.)
TSIO195	SHARP	1 PRONG	8
TSIO196	SHARP	1 PRONG	8 3/4
TSIO197	BLUNT	1 PRONG	8 3/4



TSIO198

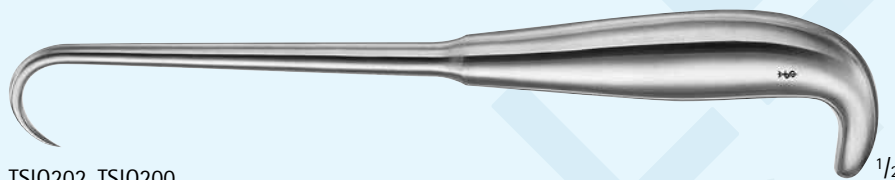


TSIO199



VOLKMANN Bone Hook

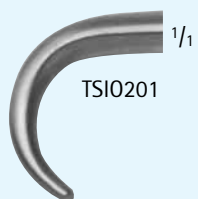
Catalog Number	Tip	Blade End	Length (in.)
TSIO198	SHARP	1 PRONG	8 3/4
TSIO199	BLUNT	1 PRONG	8 3/4



TSIO202, TSIO200

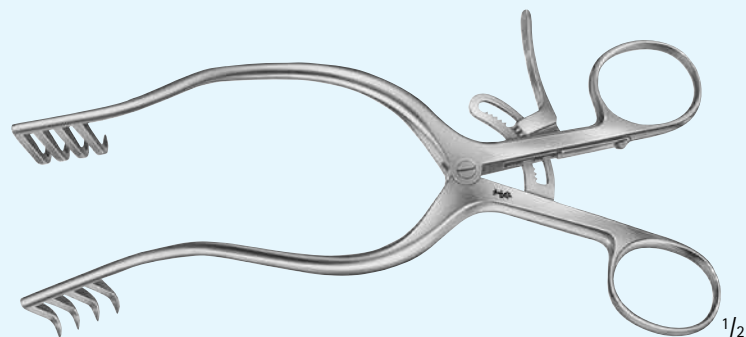


TSIO201

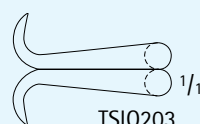


Bone Hooks

Catalog Number	Tip	Diameter (mm)	Length (in.)
TSIO200	SHARP	19	9
TSIO201	BLUNT	19	9
TSIO202	SHARP	30	9



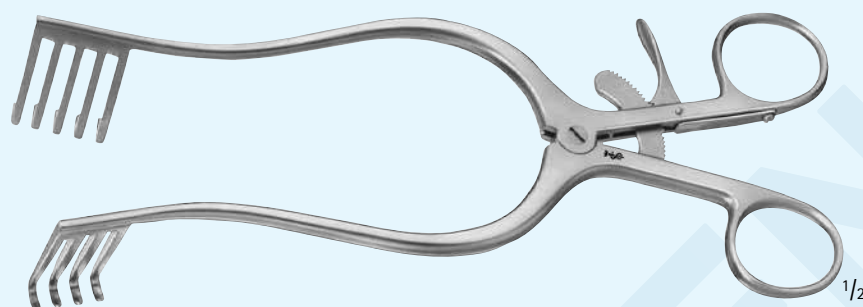
TSIO203



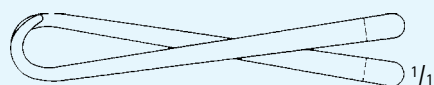
TSIO203

ANDERSON-ADSON Retractor

Catalog Number	Tip	Blade End	Length (in.)
TSIO203	SHARP	4 x 4 PRONGS	7 1/2



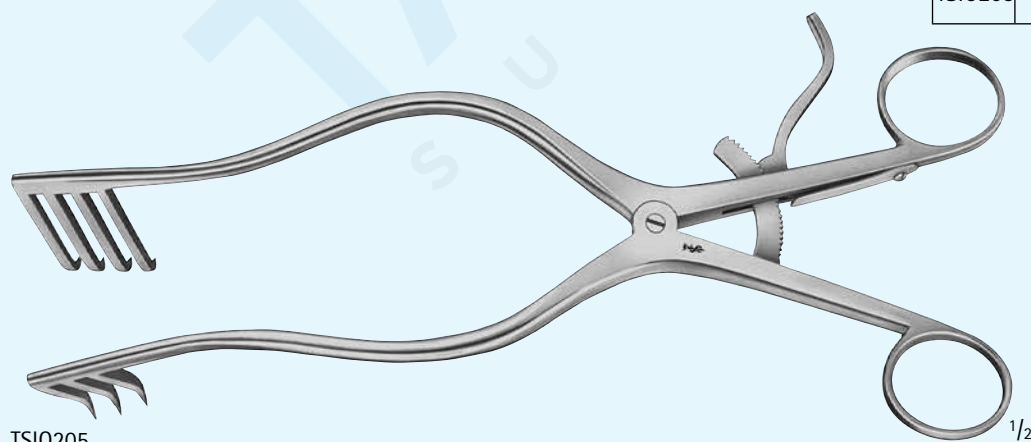
TSIO204



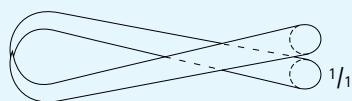
TSIO204

NORFOLK-NORWICH Retractor

Catalog Number	Tip	Blade End	Length (in.)
TSIO204	BLUNT	4 x 5 PRONGS	8 3/4



TSIO205



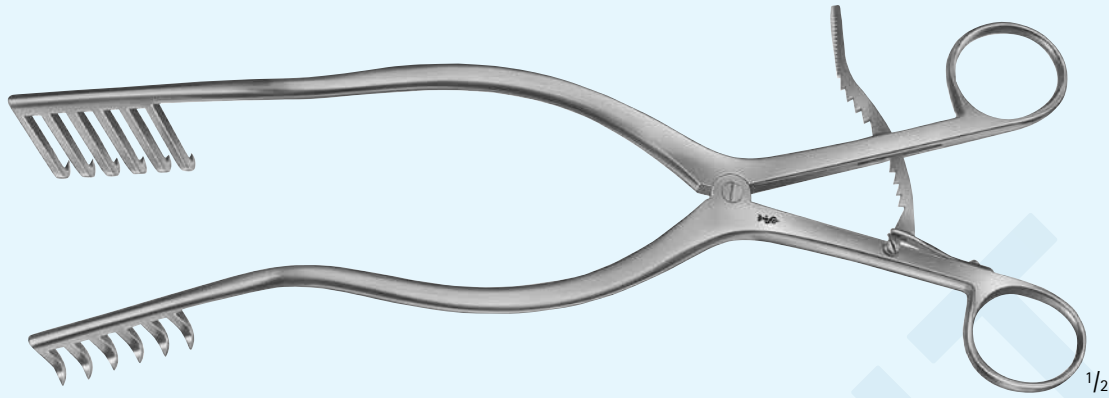
TSIO205

ADSON Self Retaining Retractor

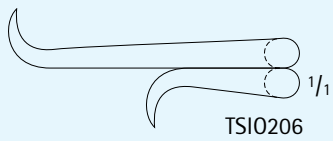
Catalog Number	Tip	Blade End	Length (in.)
TSIO205	SHARP	3 x 4 PRONGS	10 1/2

Laminectomy Self Retaining Retractor

Catalog Number	Tip	Blade End	Length (in.)
TSI0206	SHARP	6 x 6 PRONGS	11



TSI0206



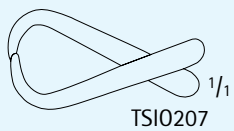
TSI0206

ADSON Self Retaining Retractor,
Hinged

Catalog Number	Tip	Blade End	Length (in.)
TSI0207	SEMI-S	4 x 4 PRONGS	8 1/2



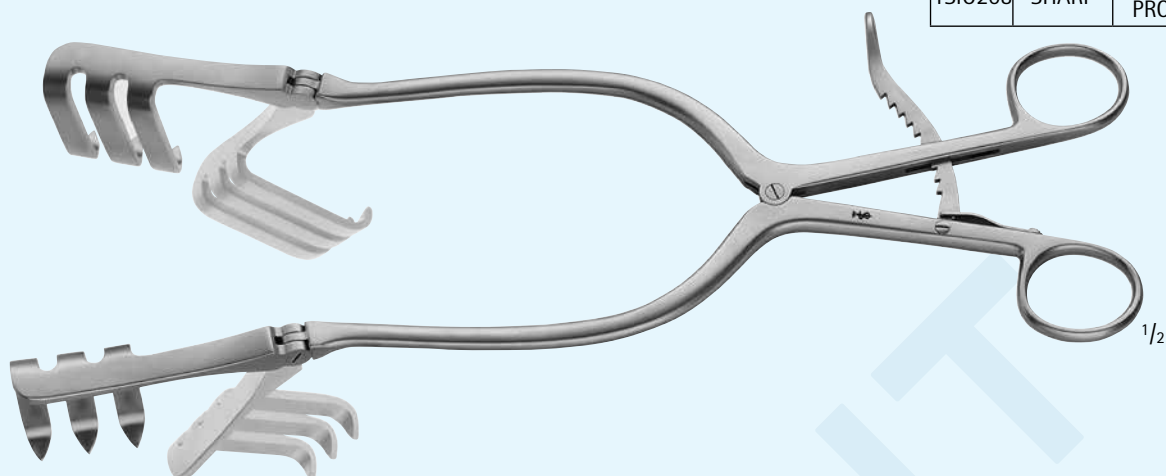
TSI0207



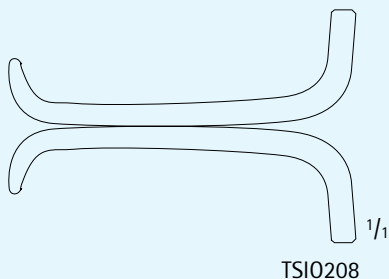
TSI0207

HARVEY-JACKSON Retractor, Hinged

Catalog Number	Tip	Blade End	Length (in.)
TSIO208	SHARP	3 x 3 PRONGS	11 3/4



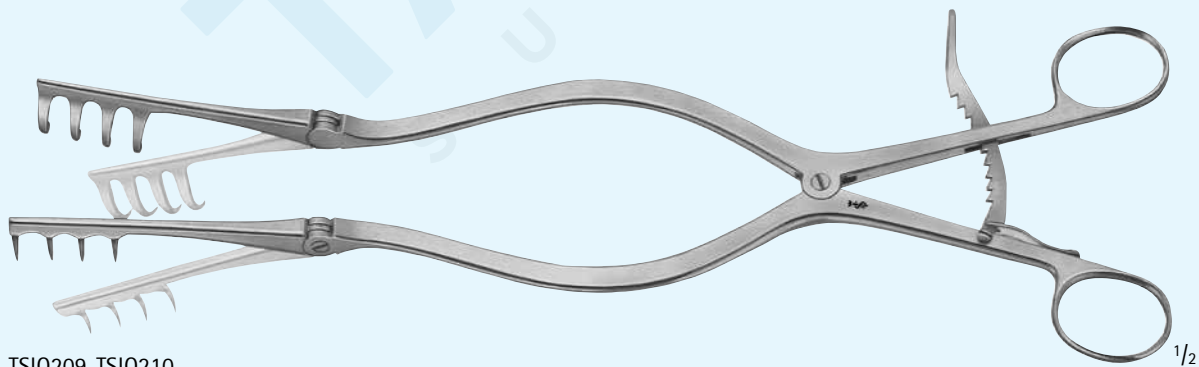
TSIO208



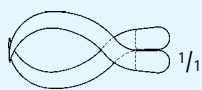
TSIO208

BECKMANN-ADSON Retractor, Hinged

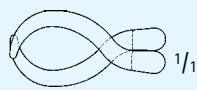
Catalog Number	Tip	Blade End	Length (in.)
TSIO209	SEMI-S	4 x 4 PRONGS	12 1/4
TSIO210	SHARP	4 x 4 PRONGS	12 1/4



TSIO209-TSIO210



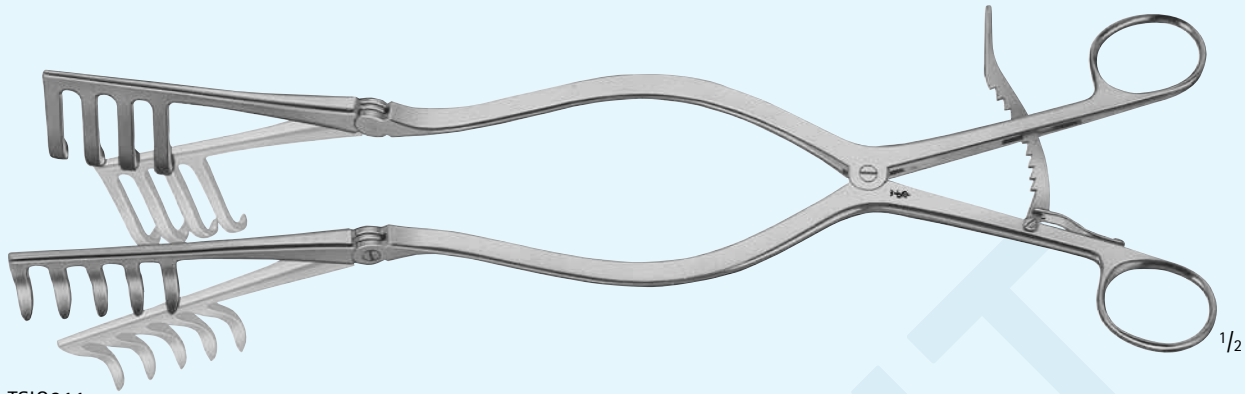
TSIO209



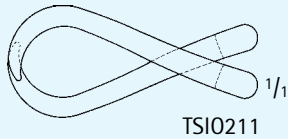
TSIO210

ADSON Retractor, Hinged

Catalog Number	Tip	Blade End	Length (in.)
TSI0211	SEMI-S	5 x 4 PRONGS	12 1/2



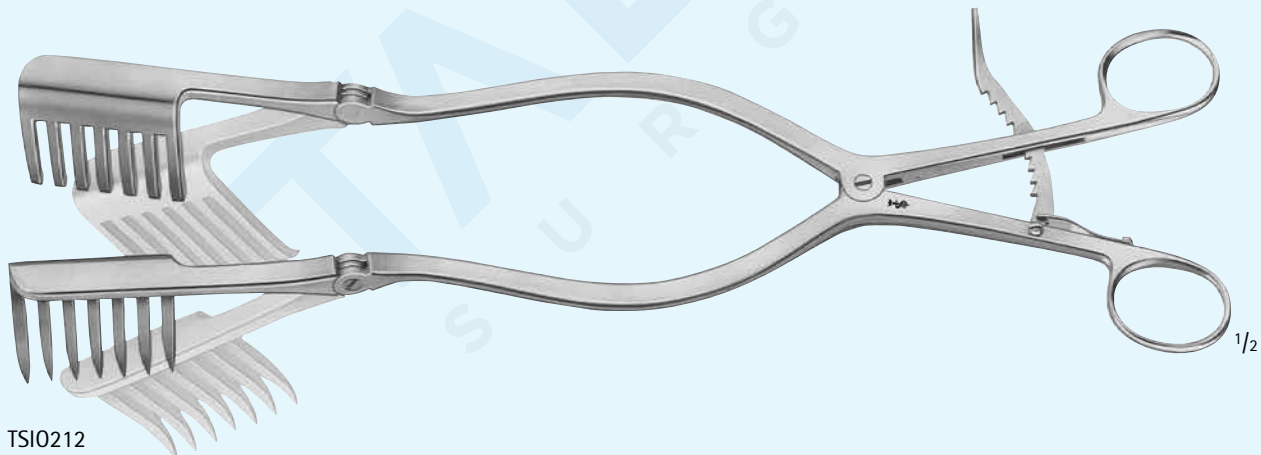
TSI0211



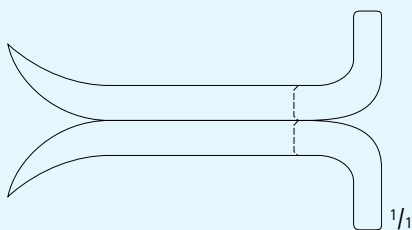
TSI0211

BECKMANN Retractor, Hinged

Catalog Number	Tip	Blade End	Length (in.)
TSI0212	SHARP	7 x 7 PRONGS	12 1/2



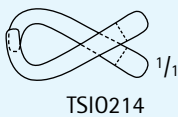
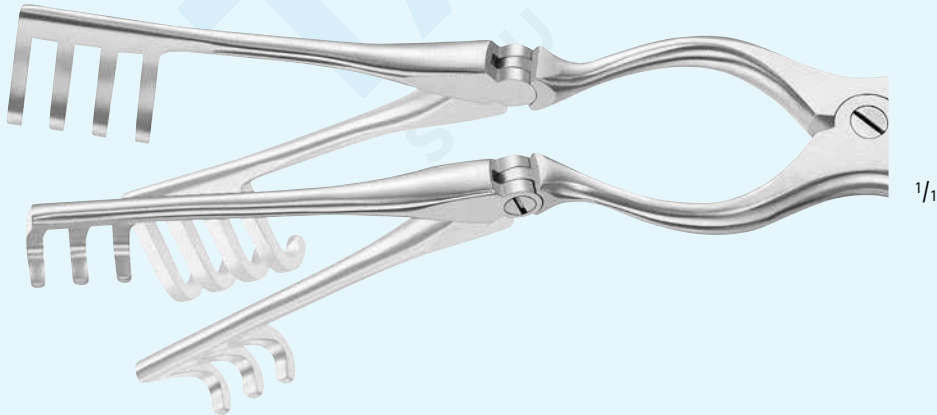
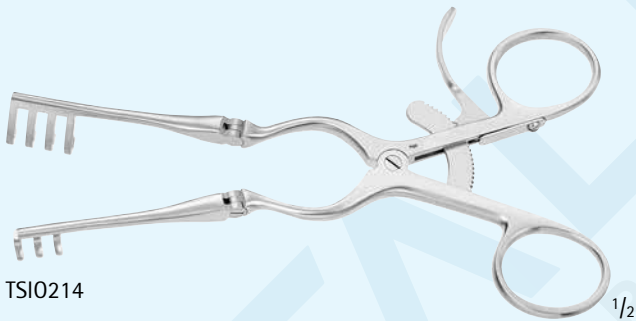
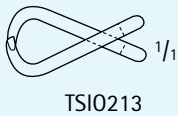
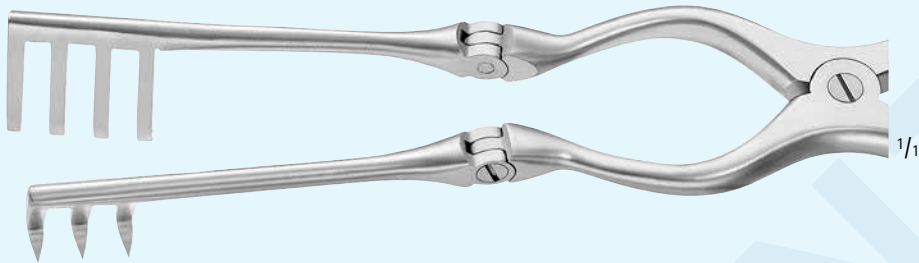
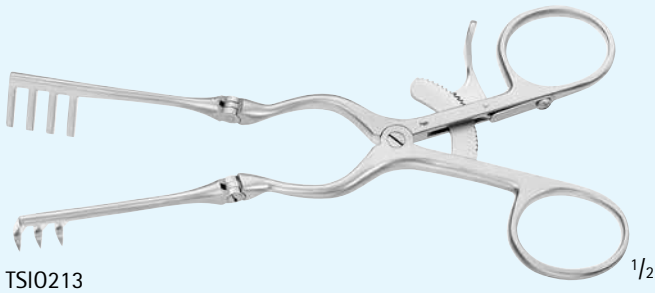
TSI0212



TSI0212

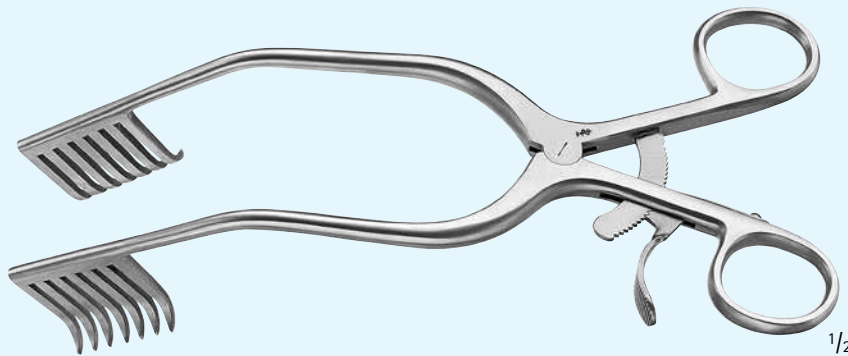
BECKMANN Retractor, Hinged
(continued)

Catalog Number	Tip	Blade End	Length (in.)
TSIO213	SHARP	3 x 4 PRONGS	6 1/2
TSIO214	BLUNT	3 x 4 PRONGS	6 1/4

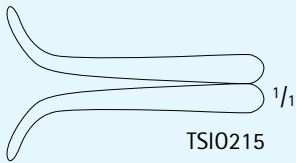


MISKIMON Cerebellum Retractor

Catalog Number	Tip	Blade End	Length (in.)
TSIO215	SEMI-S	7 x 7 PRONGS	7 1/2



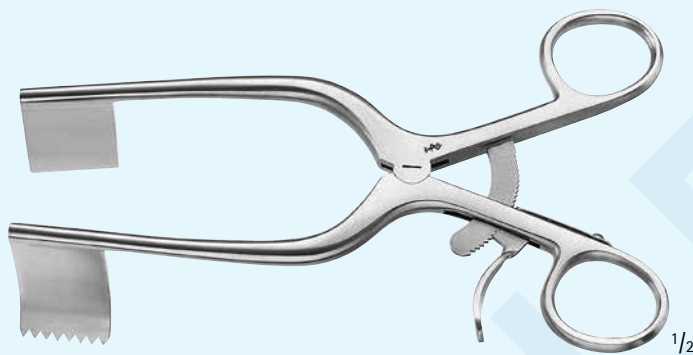
TSIO215



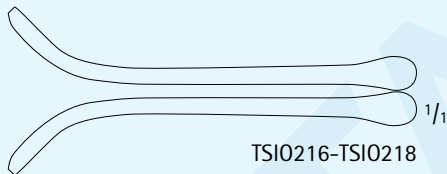
TSIO215

MEYERDING Retractor

Catalog Number	Blade Size (mm)	Length (in.)
TSIO216	25 x 57	6 1/2
TSIO217	25 x 51	6 1/2
TSIO218	25 x 31	6 1/2



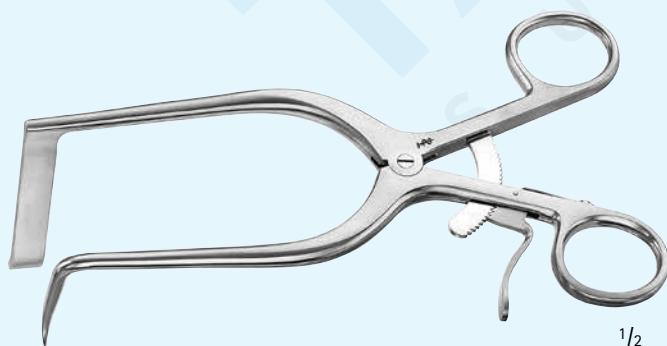
TSIO216-TSIO218



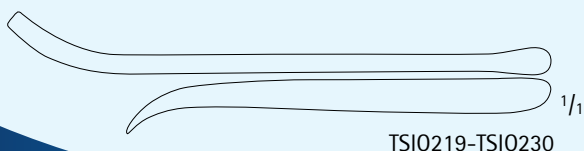
TSIO216-TSIO218

WILLIAMS Retractor

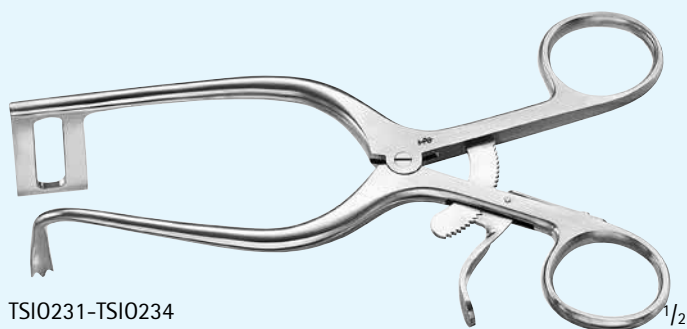
Catalog Number	Tip	Blade Size (mm)	Length (in.)
TSIO219	BLADE LEFT	10 x 50	7
TSIO220	BLADE RIGHT	10 x 50	7
TSIO221	BLADE LEFT	10 x 60	7
TSIO222	BLADE RIGHT	10 x 60	7
TSIO223	BLADE LEFT	10 x 70	7
TSIO224	BLADE RIGHT	10 x 70	7
TSIO225	BLADE LEFT	20 x 50	7
TSIO226	BLADE RIGHT	20 x 50	7
TSIO227	BLADE LEFT	20 x 60	7
TSIO228	BLADE RIGHT	20 x 60	7
TSIO229	BLADE LEFT	20 x 70	7
TSIO230	BLADE RIGHT	20 x 70	7



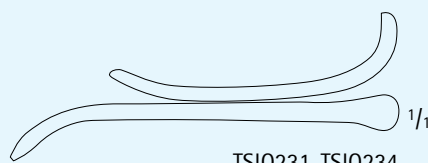
TSIO219-TSIO230



TSIO219-TSIO230



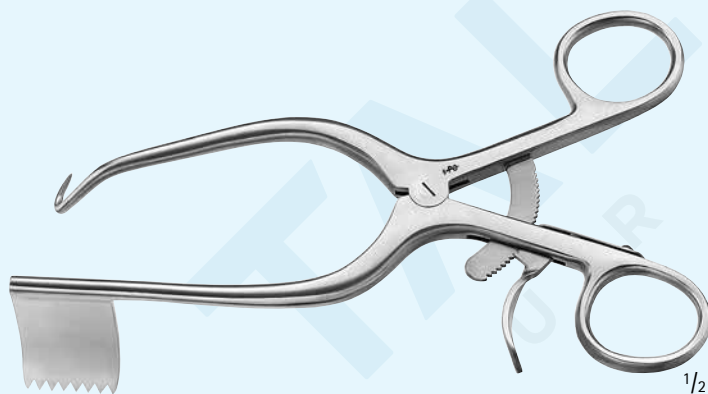
TSIO231-TSIO234



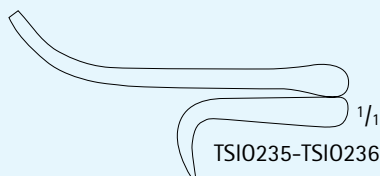
TSIO231-TSIO234

DUCKER Retractor

Catalog Number	Tip	Blade Size (mm)	Length (in.)
TSIO231	HOOK LEFT	50 x 20	6 3/4
TSIO232	HOOK RIGHT	50 x 20	6 3/4
TSIO233	HOOK LEFT	70 x 20	6 3/4
TSIO234	HOOK RIGHT	70 x 20	6 3/4



TSIO235-TSIO236



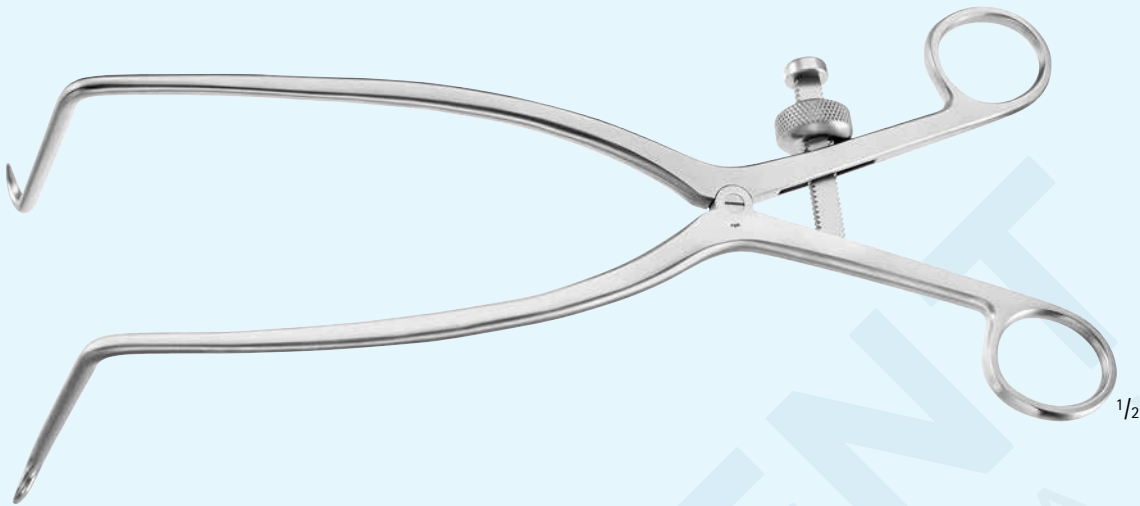
TSIO235-TSIO236

MARKHAM-MEYERDING Retractor

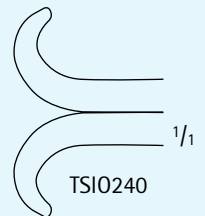
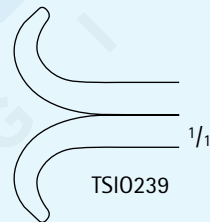
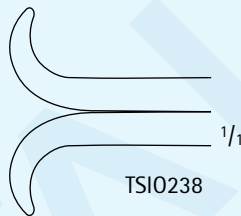
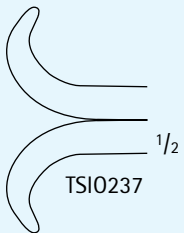
Catalog Number	Tip	Blade Size (mm)	Length (in.)
TSIO235	BLADE RIGHT	46 x 26	7 1/2
TSIO236	BLADE LEFT	46 x 26	7 1/2

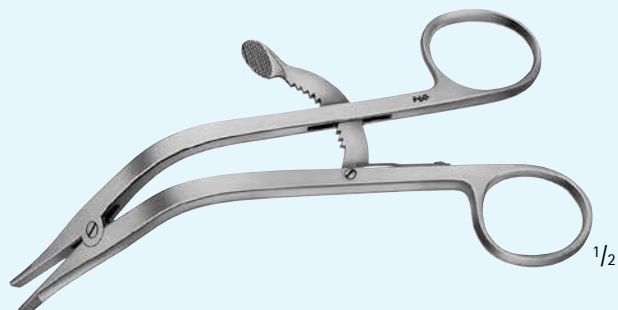
Zelpi-Type Retractor, Deep Blade

Catalog Number	Tip	Depth (in.)
TSIO237	ANG 45°	3
TSIO238	ANG 90°	3
TSIO239	ANG 90°	4
TSIO240	ANG 90°	5



TSIO237-TSIO240

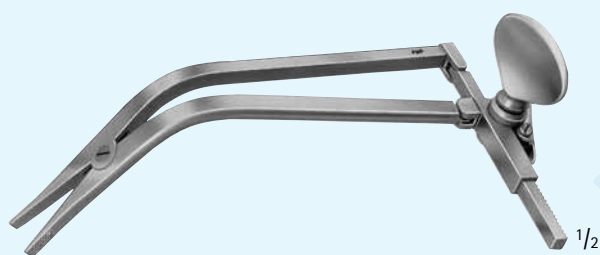




TSIO241

CLOWARD Lamina Spreader

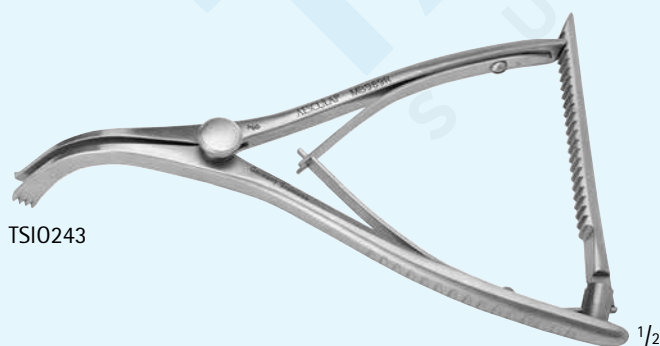
Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO241	SERR OUTER	5.0	6 1/8



TSIO242

CLOWARD Lamina Spreader

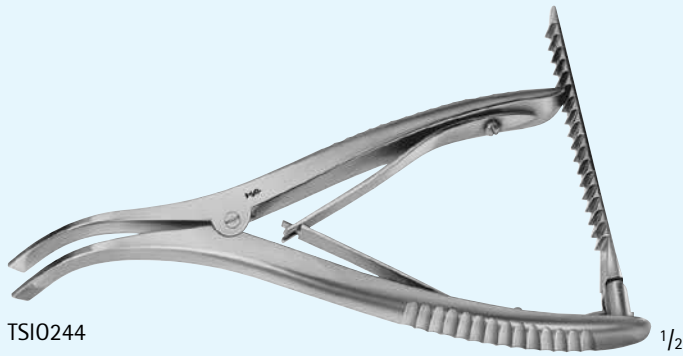
Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO242	SERR	4.5	5 1/4



TSIO243

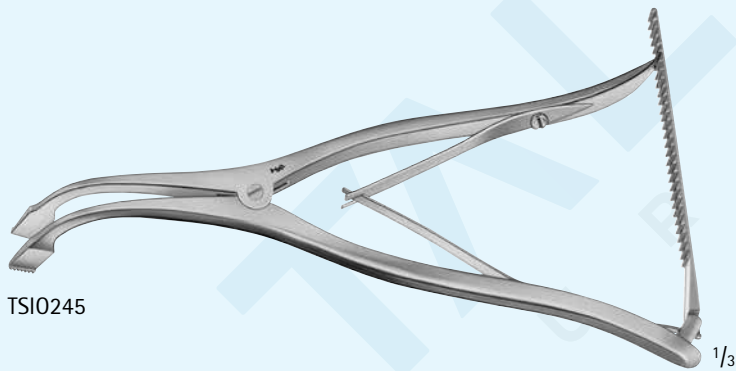
INGE Lamina Spreader

Catalog Number	Tip	Length (in.)
TSIO243	TOOTHED	6 1/2



INGE Lamina Spreader

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO244	SERR	6.0	6 3/4



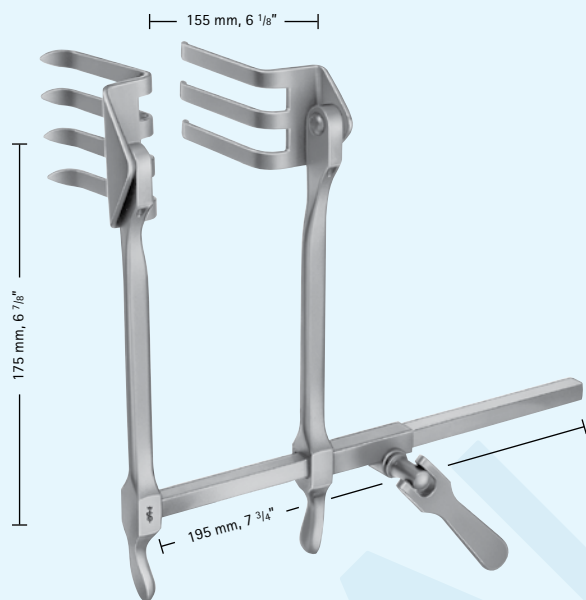
INGE Lamina Spreader

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO245	TOOTHED	12.0	10 3/4



Advantages:

- Blades are safely locked without additional fixation, preventing them from detaching when the instrument is passed to the surgeon. In addition, the smooth surface minimizes the risk of catching a suture.
- Blades can be quickly exchanged during the operation.
- Different retractor patterns can be combined and exchanged at random, which allows for optimum selection of the blade size according to surgical needs.



TSIO246

SCOVILLE-RICHTER Laminectomy Retractor, Reversible

Catalog Number	Description
TSIO246	COMPLETE

BV510R Includes:

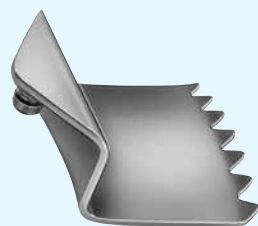
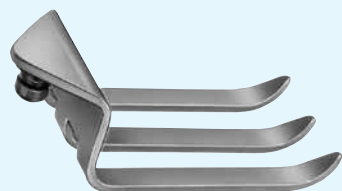
1 Retractor BV509R and

1 Pair of blades BV516R

The retractor bar and shanks rotate 180°



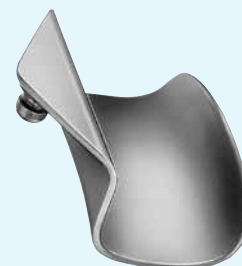
TSIO247



TSIO248



TSIO249



TSIO250

SCOVILLE-RICHTER Retractor Blade

Catalog Number	Blade Size (mm)
TSIO247	62 x 52 AND 62 x 37, PAIR
TSIO248	47 x 51
TSIO249	30 x 40
TSIO250	37 x 62

- Complete retraction system consisting of a retractor body, various blade configurations, and storage tray. Designed to enable less invasive spine procedures such as discectomies and decompressions.
 - Unique organization system enables easy storage and retrieval of desired blade.
 - Sturdy design provides rigid retraction even at large opening widths.
- All retractor components are titanium. Blade designs improve visualization and intra-operative imaging.

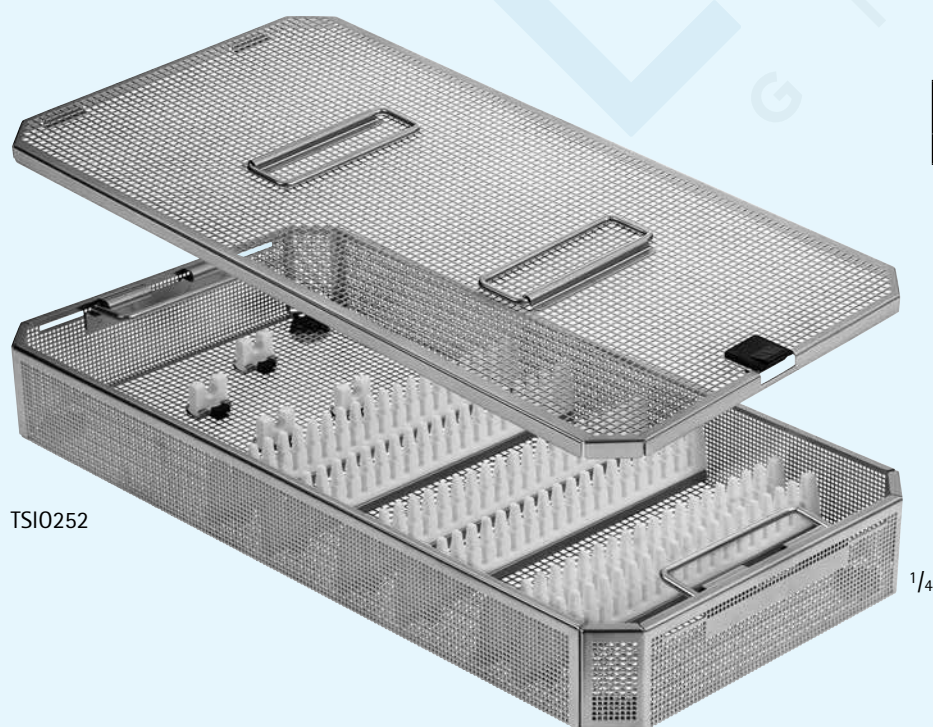
For more information see our brochure number DOC658.

MF393 Includes:

- 1 Hinged Titanium Retractor Frame MF365T
- 2 Wide Blades, 40 mm MF368T
- 2 Wide Blades, 50 mm MF369T
- 2 Wide Blades, 60 mm MF370T
- 2 Wide Blades, 70 mm MF371T
- 2 Narrow Blades, 40 mm MF375T
- 2 Narrow Blades, 50 mm MF376T
- 2 Narrow Blades, 60 mm MF377T
- 2 Narrow Blades, 70 mm MF378T
- 1 Storage Tray MF392
- 1 Hook Blade, 30 mm MF381T
- 1 Hook Blade, 40 mm MF382T
- 1 Hook Blade, 50 mm MF383T
- 1 Hook Blade, 60 mm MF384T
- 1 Toothed Blade, 30 mm MF387T
- 1 Toothed Blade, 40 mm MF388T
- 1 Toothed Blade, 50 mm MF389T
- 1 Toothed Blade, 60 mm MF390T

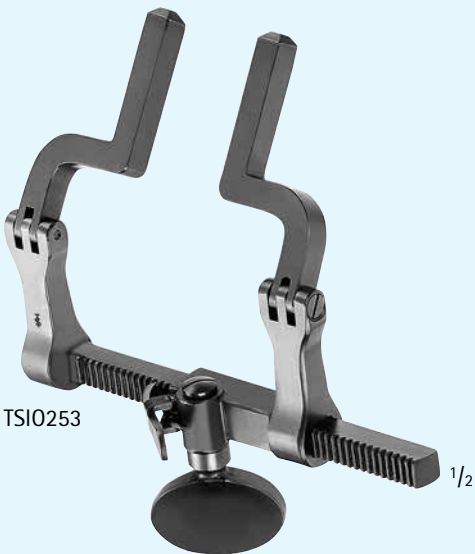
Spine Retractor System

Catalog Number
TSI0251



Storage Tray for Spine Retractor System

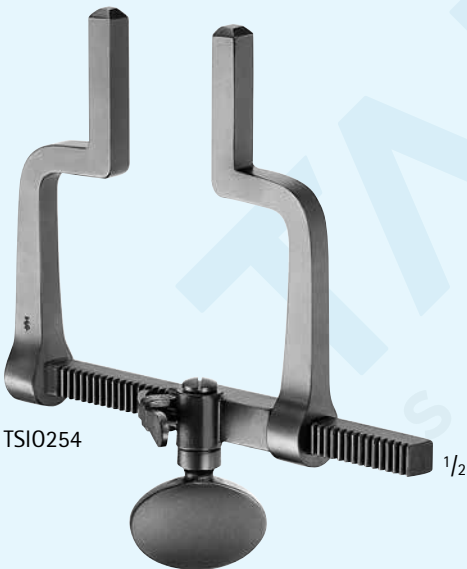
Catalog Number
TSI0252



TSI0253

Titanium Retractor Frame, Hinged

Catalog Number
TSI0253



TSI0254

Titanium Retractor Frame, Rigid

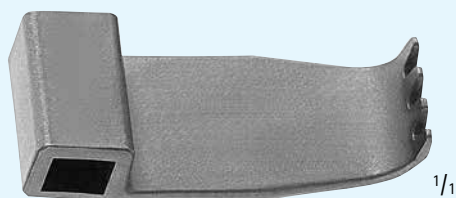
Catalog Number
TSI0254



TSI0255-TSI0261

Titanium Retractor Blade, Wide

Catalog Number	Blade Size (mm)
TSI0255	27 x 30
TSI0256	27 x 40
TSI0257	27 x 50
TSI0258	27 x 60
TSI0259	27 x 70
TSI0260	27 x 80
TSI0261	27 x 90



TSI0262-TSI0268

Titanium Retractor Blade, Narrow

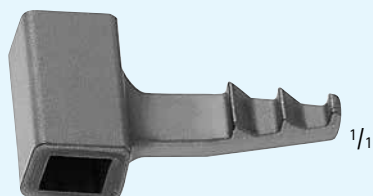
Catalog Number	Blade Size (mm)
TSI0262	20 x 30
TSI0263	20 x 40
TSI0264	20 x 50
TSI0265	20 x 60
TSI0266	20 x 70
TSI0267	20 x 80
TSI0268	20 x 90



TSI0269-TSI0274

Titanium Retractor Hook

Catalog Number	Length (mm)
TSI0269	30
TSI0270	40
TSI0271	50
TSI0272	60
TSI0273	70
TSI0274	80



TSI0275-TSI0279

Titanium Toothed Blades

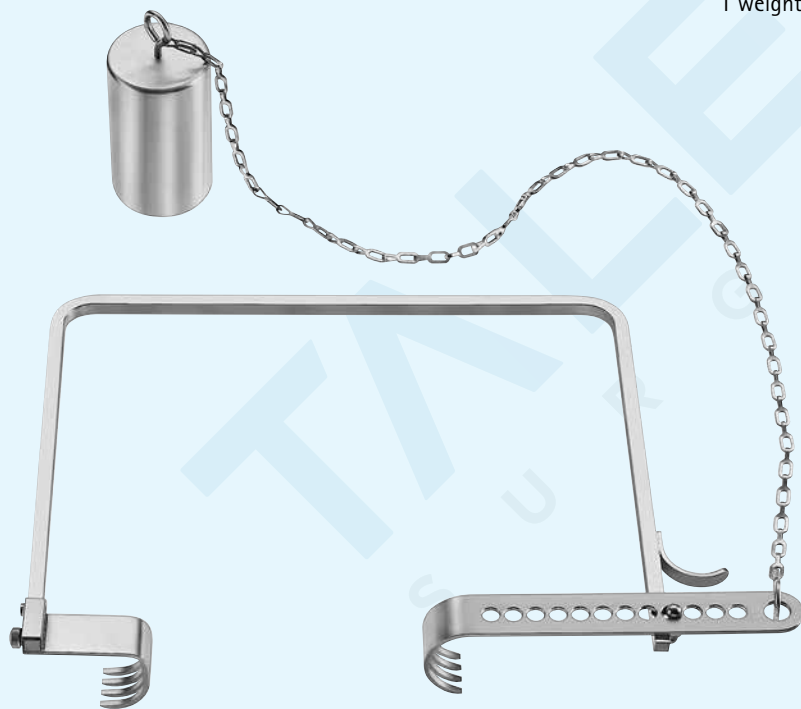
Catalog Number	Length (mm)
TSI0275	30
TSI0276	40
TSI0277	50
TSI0278	60
TSI0279	70

CHARNLEY Initial Incision Retractor

Catalog Number	Description	Blade	Size	Blade Size (mm)
TSIO280	SET COMPLETE	-	-	-
TSIO281	INDIVIDUAL BLADE	SMALL	STANDARD DEPTH	25 x 38
TSIO282	INDIVIDUAL BLADE	SMALL	MEDIUM DEPTH	25 x 75
TSIO283	INDIVIDUAL BLADE	SMALL	LONG DEPTH	25 x 127
TSIO284	INDIVIDUAL BLADE	LARGE	STANDARD DEPTH	25 x 44
TSIO285	INDIVIDUAL BLADE	LARGE	MEDIUM DEPTH	25 x 75
TSIO286	INDIVIDUAL BLADE	LARGE	LONG DEPTH	25 x 127
TSIO287	WEIGHT AND CHAIN REPLACEMENT FOR MB191R	-	-	-

TSIO280 includes:

- 1 frame
- 1 small retractor blade (TSIO281)
- 1 large retractor blade (TSIO284)
- 1 weight w/ chain (3 lbs.)



TSIO280-TSIO287

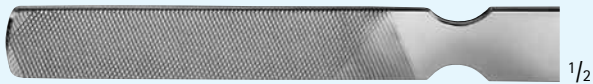


TSIO288

Bone File/Rasp

Catalog Number	Tip Size (mm)	Length (in.)
TSIO288	20	8 3/4

One Side File Cut
One Side Rasp Cut



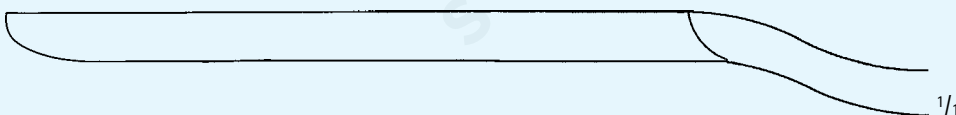
TSIO288

Bone File

Catalog Number	Tip Size (mm)	Length (in.)
TSIO289	13	9 1/2
TSIO290	20	11 5/8



TSIO289



TSIO289



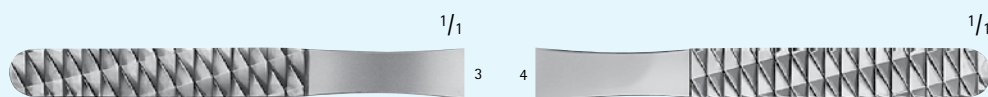
TSIO290



TSIO291-TSIO294

DUROGRIP™ TC FOMON Rasp, Double Ended

Catalog Number	Size	Teeth	Length (in.)
TSIO291	3 + 4	16/20	8 1/4
TSIO292	5 + 6	24/30	8 1/4
TSIO293	7 + 8	36/44	8 1/4
TSIO294	9 + 10	52/44	8 1/4



TSIO291



TSIO292



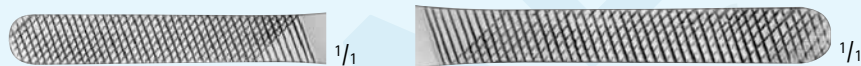
TSIO293



TSIO294



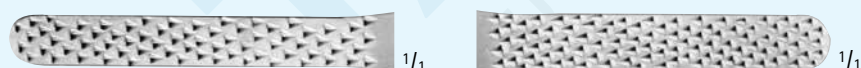
TSIO295



TSIO295



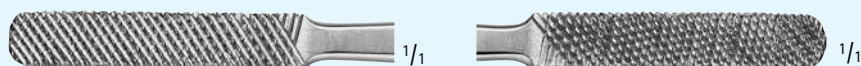
TSIO296



TSIO296



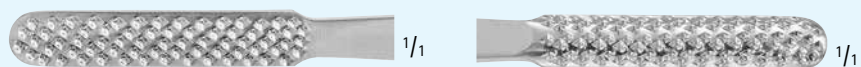
TSIO297



TSIO297



TSIO298



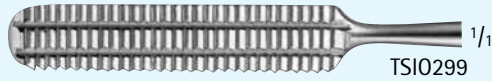
TSIO298

FOMON Bone Rasp, Double Ended

Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSIO295	6.5 / 7.5	X-SERR Fine/Coarse	8 1/2
TSIO296	6.5 / 7.5	Fine/Coarse	8 1/2
TSIO297	8/8	FLAT, CONVEX FINE, COARSE	8 1/2
TSIO298	7.5 / 7.5	Coarse/ Xtra-Coarse	8 3/8



TSIO299



TSIO299



TSIO300



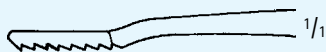
TSIO301

MALTZ Bone Rasp

Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSIO299	9	DOWN-STROKE	6 1/2
TSIO300	33	DOWN-STROKE	6 1/2
TSIO301	33	UP STROKE	6 1/2



TSIO302-TSIO303



TSIO302



TSIO303

LEWIS Bone Rasp

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO302	FINE-SERR DOWN-STROKE	8	6 7/8
TSIO303	COARSE-SERR DOWN-STROKE	8	6 7/8



TSIO304-TSIO305

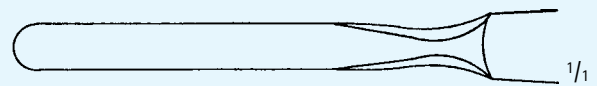


1/1

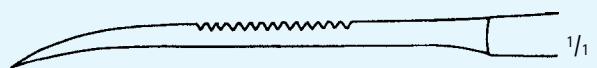


1/1

TSIO304



1/1



1/1

TSIO305

Bone Raspatory

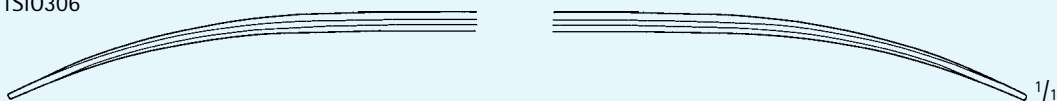
Catalog Number	Blade Size (mm)	Length (in.)
TSIO304	6	6 1/2
TSIO305	8	6 1/2

PUTTI Bone File, Double Ended

Catalog Number	Tip Size (mm)	Length (in.)
TSIO306	18/20	10 5/8



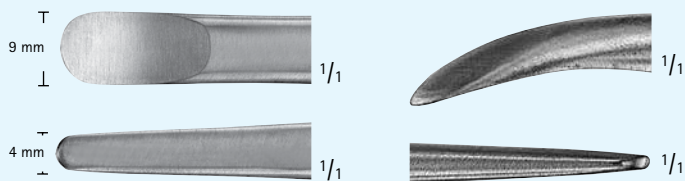
TSIO306



TSIO306



TSI0307-TSI0308



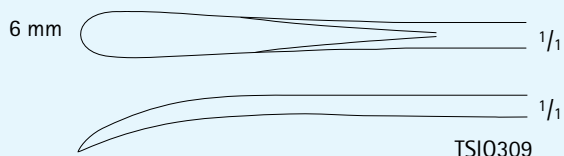
TSI0307-TSI0308

SAYRE Periosteal Elevator

Catalog Number	Tip	Length (in.)
TSI0307	SHARP	6 3/4
TSI0308	BLUNT	6 3/4



TSI0309



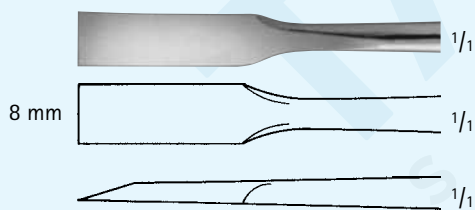
TSI0309

WILLIGER Bone Elevator

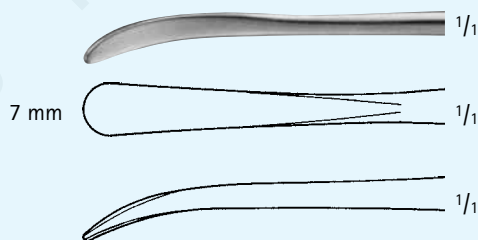
Catalog Number	Blade Size (mm)	Length (in.)
TSI0309	6	6 1/4



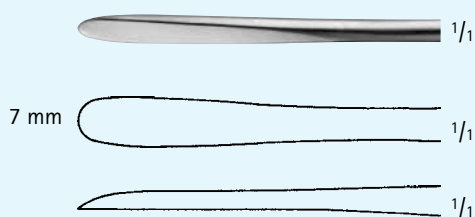
TSI0310-TSI0313



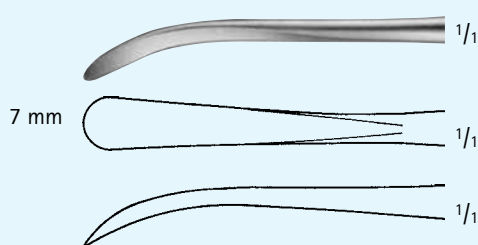
TSI0310



TSI0311



TSI0312



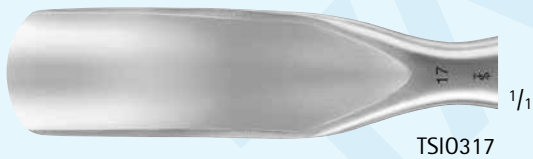
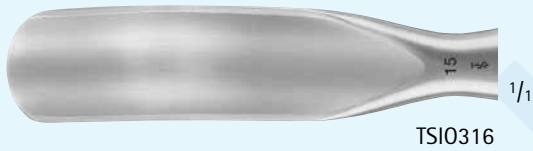
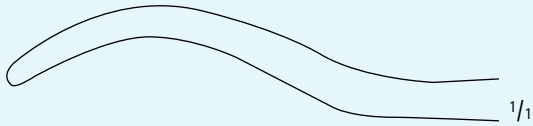
TSI0313

ADSON Elevator

Catalog Number	Tip	Blade Size (mm)	Blade	Length (in.)
TSI0310	SHARP	8	STR	6 3/4
TSI0311	SEMI-S	7	STR	6 3/4
TSI0312	BLUNT	7	CVD	6 3/4
TSI0313	SHARP	7	CVD	6 3/4

MCGLAMRY Metatarsal Elevators

Catalog Number	Blade Size (mm)	Length (in.)
TSI0314	11	6 1/2
TSI0315	13	6 1/2
TSI0316	15	6 1/2
TSI0317	17	6 1/2



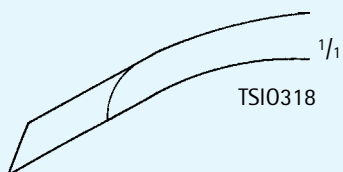


TSI0318



13 mm

1/1



1/1

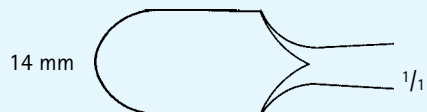
TSI0318

Elevator W/ PEEK Handle

Catalog Number	Tip	Blade Size (mm)	Blade	Length (in.)
TSI0318	SHARP	13	CVD	6 7/8

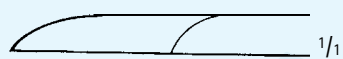


TSI0319



14 mm

1/1



1/1

TSI0319

Elevator W/ PEEK Handle

Catalog Number	Tip	Blade Size (mm)	Blade	Length (in.)
TSI0319	SHARP	14	STR	7 1/2

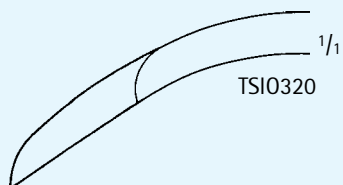


TSI0320



14 mm

1/1



1/1

TSI0320

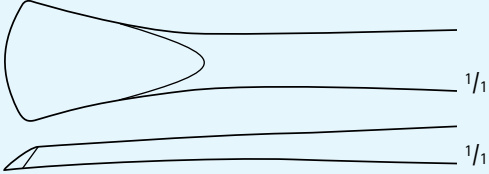
Elevator W/ PEEK Handle

Catalog Number	Tip	Blade Size (mm)	Blade	Length (in.)
TSI0320	SHARP	14	CVD	7



TSI0321

16 mm

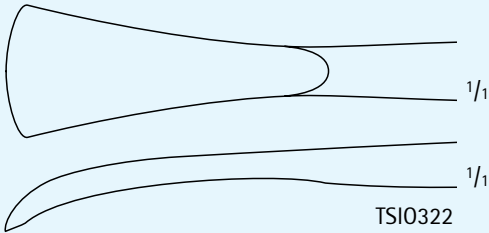


TSI0321



TSI0322

17 mm



TSI0322

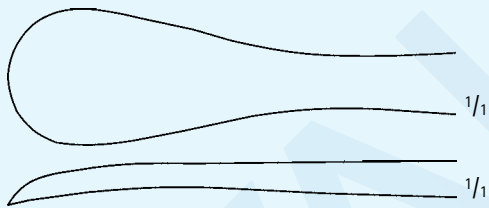
LANGENBECK Periosteal Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0321	16	STR	7 1/2
TSI0322	17	STR	7 3/4



TSI0323

18 mm



TSI0323



TSI0324

15 mm



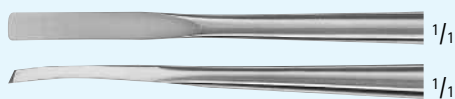
TSI0324

SEDILLOT Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0323	18	STR	7 1/4
TSI0324	15	CVD	8 1/2



TSI0325



TSI0325

KEY Periosteal Elevator

Catalog Number	Blade Size (mm)	Length (in.)
TSI0325	3.1	6 3/4



TSIO326-TSIO330

KEY Elevator

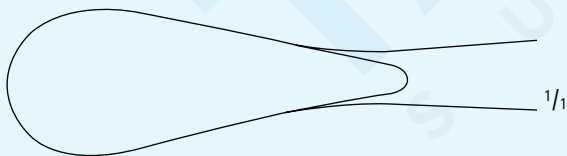
Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO326	6.4	STR	7
TSIO327	9.5	STR	7 1/2
TSIO328	12.7	STR	7 1/2
TSIO329	19	STR	7 7/8
TSIO330	25.4	STR	8 1/4



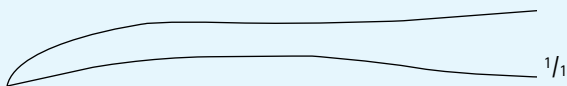
TSIO331

COBB Elevator, Round

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO331	19	CVD	9 1/2



1/1

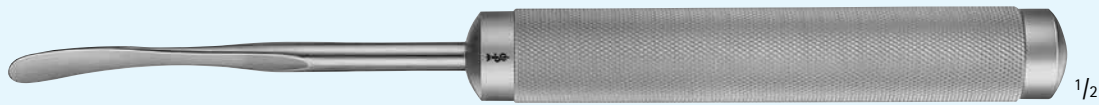


1/1

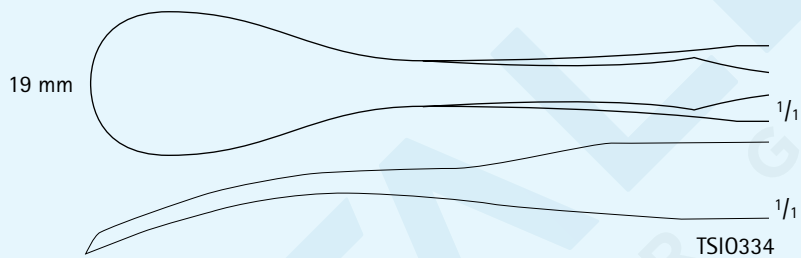
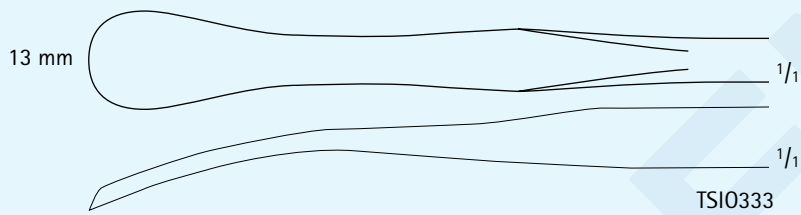
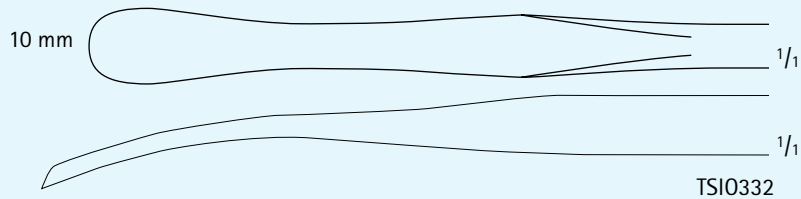
TSIO331

COBB Elevator, Sharp

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0332	10	CVD	11
TSI0333	13	CVD	11
TSI0334	19	CVD	11

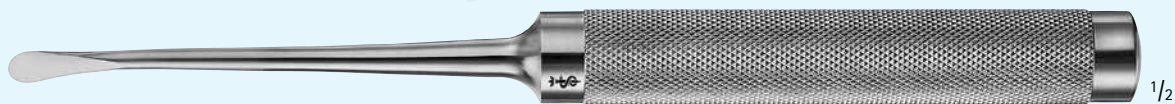


TSI0332-TSI0334



COBB Periosteal Elevator, Round

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0335	7	CVD	12



TSI0335



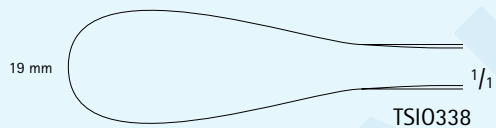
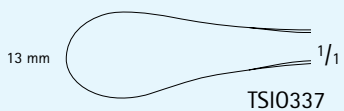
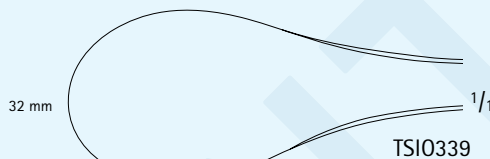
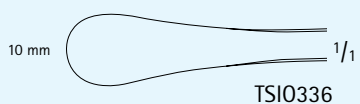


COBB Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO336	10	ROUND	11
TSIO337	13	ROUND	11
TSIO338	19	ROUND	11
TSIO339	26	ROUND	11
TSIO340	32	ROUND	11



TSIO336-TSIO340

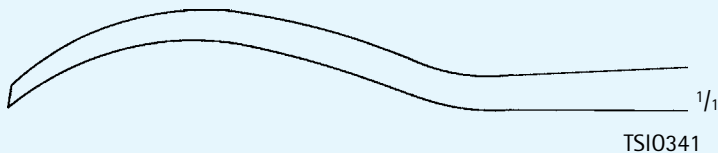
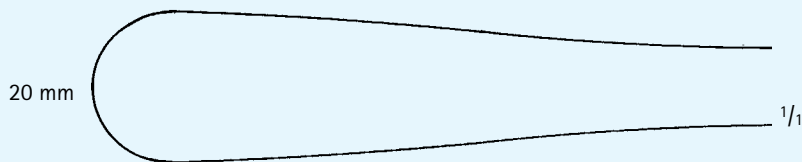


Elevator W/ PEEK Handle

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO341	20	CVD	11 1/2



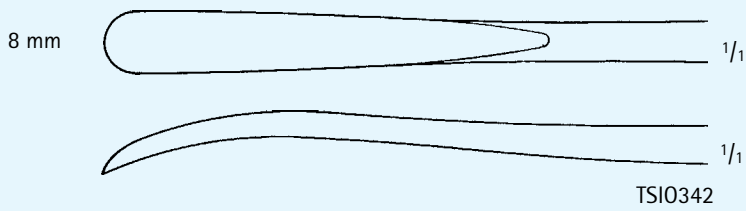
TSIO341



TSIO341

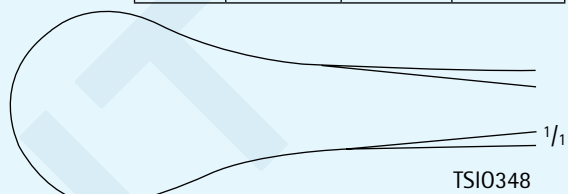
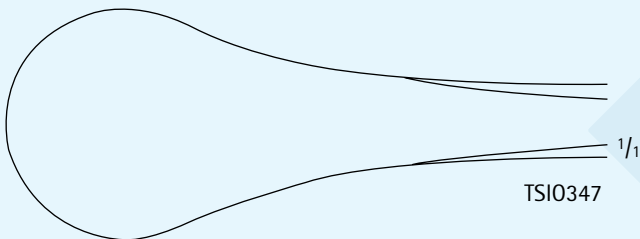
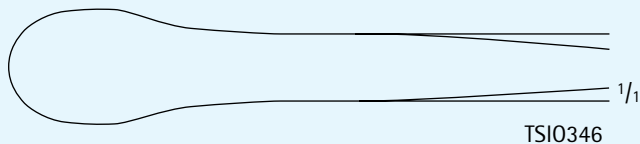
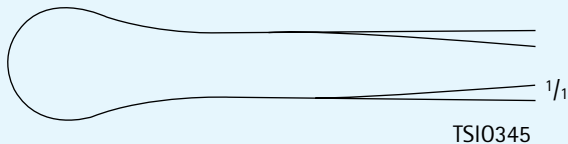
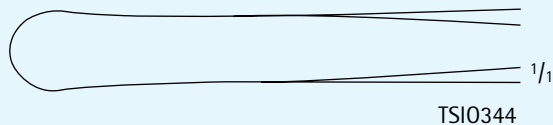
WAGNER Elevator W/ PEEK Handle

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0342	8	CVD	13
TSI0343	17	CVD	13





TSIO344-TSIO349

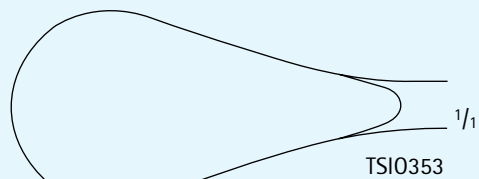
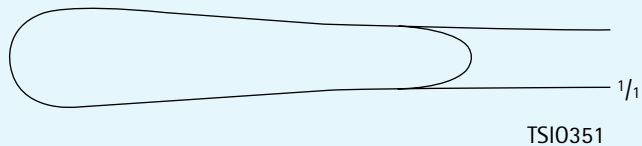
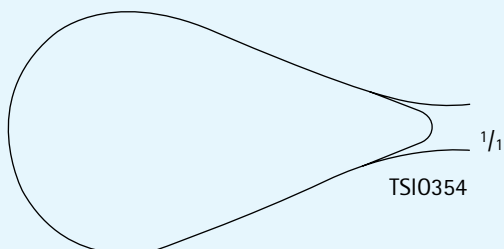
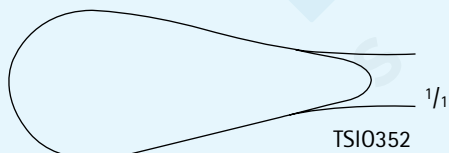


Black Handled Elevator

Catalog Number	Tip Size (mm)	Handle	Length (in.)
TSIO344	10	8 1/2	13 1/4
TSIO345	15	8 1/2	13 1/4
TSIO346	20	8 1/2	13 1/4
TSIO347	25	8 1/2	13 1/4
TSIO348	30	8 1/2	13 1/4
TSIO349	35	8 1/2	13 1/4
TSIO350	9	9	15
TSIO351	13	9	15
TSIO352	19	9	15
TSIO353	25	9	15
TSIO354	32	9	15



TSIO350-TSIO354



WILLIGER Elevator

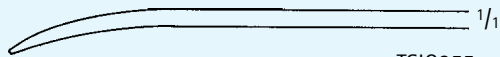
Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO355	5	CVD	6 1/2
TSIO356	5.5	CVD	6 3/4



TSIO355



5 mm



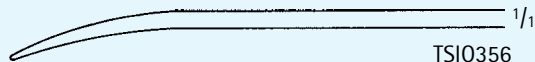
TSIO355



TSIO356



5.5 mm



TSIO356

SEBILEAU Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO357	5	CVD	6 7/8



TSIO357



5 mm



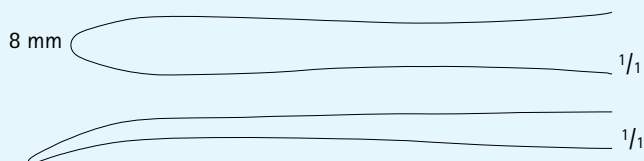
TSIO357



TSIO358-TSIO359

LANGENBECK Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO358	8	CVD	7 3/4
TSIO359	10	CVD	7 3/4
TSIO360	11	CVD	9



8 mm

1/1



10 mm

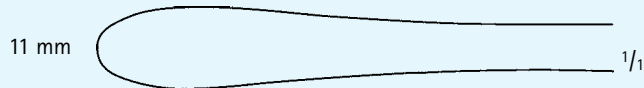
1/1

TSIO358

TSIO359



TSIO360



11 mm

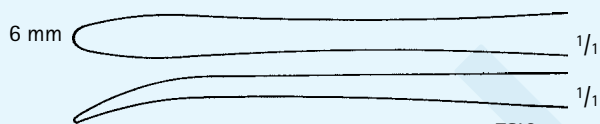
1/1



TSIO360



TSIO361



6 mm

1/1

1/1

TSIO361

QUERVAIN Elevator, Joker

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO361	6	CVD	7 3/4



TSIO362



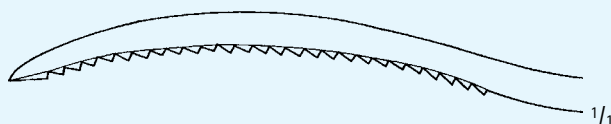
TSIO362

LANE TRETHOWAN Bone Lever

Catalog Number	Blade	Length (in.)
TSIO362	CVD	8 1/2



TSIO363



1/1

TSIO363

LANE Bone Lever

Catalog Number	Blade	Length (in.)
TSIO363	CVD	10

CREGO Elevator

Catalog Number	Tip	Blade Size (mm)	Blade	Length (in.)
TSIO364	BLUNT	6.5	CVD	8
TSIO365	BLUNT	7.1	CVD	8
TSIO366	BLUNT	14.6	CVD	8



TSIO364-TSIO366



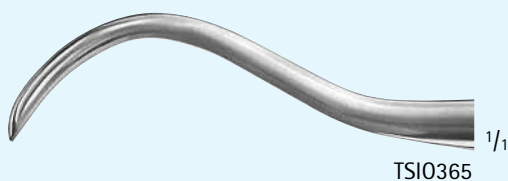
6.5 mm



TSIO364



7.1 mm



TSIO365



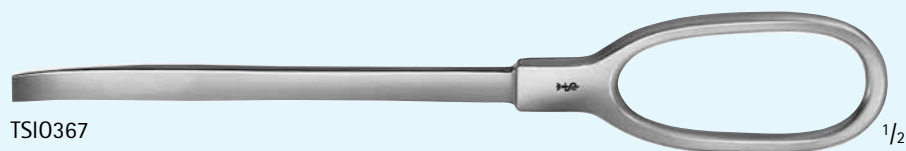
14.6 mm



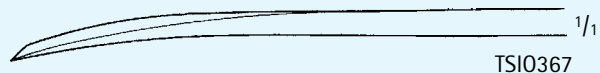
TSIO366

BRISTOW Bone Lever

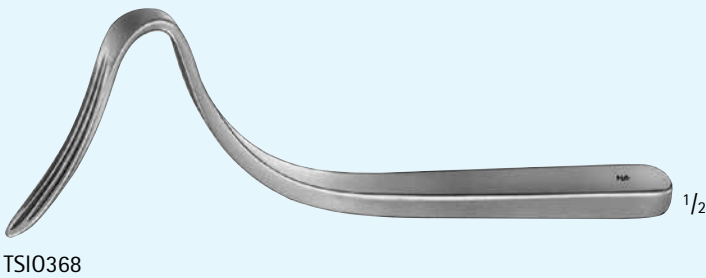
Catalog Number	Length (in.)
TSIO367	5 3/4



TSIO367

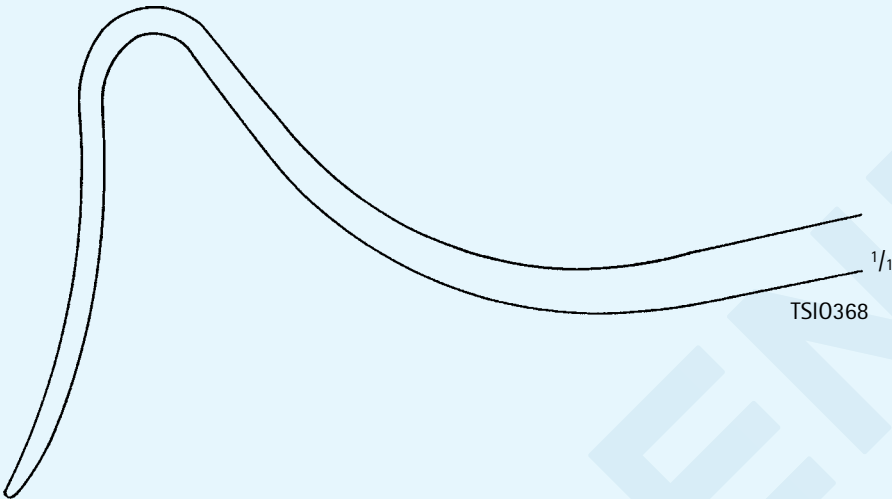


TSIO367



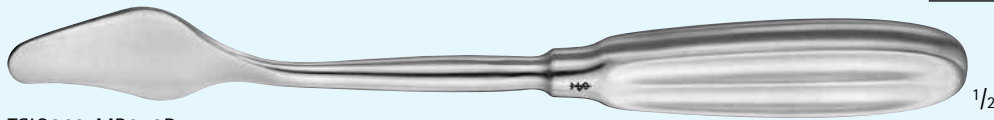
TAEGER Bone Lever F/ Angle Joint
Operations

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSI0368	12	CVD	6 7/8



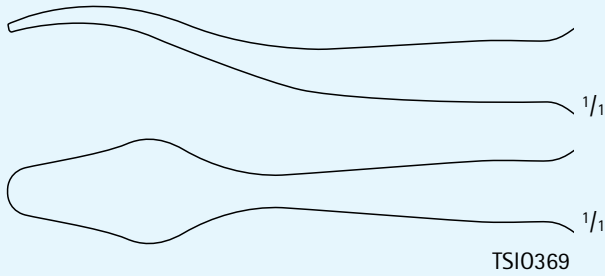
CHANDLER Bone Elevator

Catalog Number	Blade Size (mm)	Blade	Length (in.)
TSIO369	14	SMALL	7 1/4
TSIO370	19	MEDIUM	8
TSIO371	25	LARGE	9 1/4
TSIO372	30	EXTRA LARGE	10

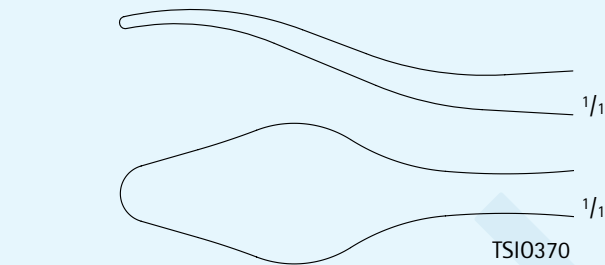


TSIO369-MB278R

1/2



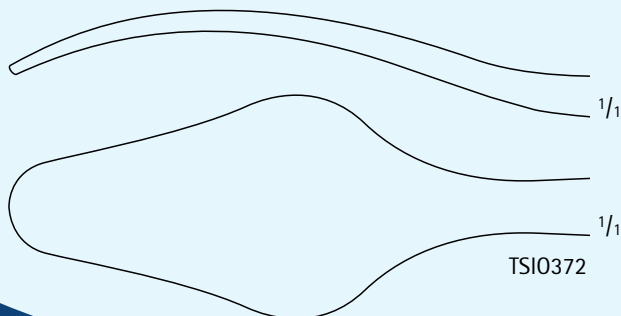
TSIO369



TSIO370



TSIO371



TSIO372



TSI0373-TSI0379, TSI0374

1/2



TSI0380-TSI0384, TSI0382-TSI0388

1/2

HIBBS Chisel

Catalog Number	Tip Size (mm)	Blade	Length (in.)
TSI0373	7	STR	9 1/2
TSI0374	10	STR	9 1/2
TSI0375	15	STR	9 1/2
TSI0376	19	STR	9 1/2
TSI0377	22	STR	9 1/2
TSI0378	25	STR	9 1/2
TSI0379	38	STR	9 1/2
TSI0380	7	CVD	9 1/2
TSI0381	9	CVD	9 1/2
TSI0382	13	CVD	9 1/2
TSI0383	15	CVD	9 1/2
TSI0384	19	CVD	9 1/2
TSI0385	22	CVD	9 1/2
TSI0386	25	CVD	9 1/2
TSI0387	32	CVD	9 1/2
TSI0388	38	CVD	9 1/2



TSI0389-TSI0393

1/2



TSI0389-TSI0393

1/1

STILLE Chisel

Catalog Number	Tip Size (mm)	Length (in.)
TSI0389	10	8
TSI0390	12	8
TSI0391	15	8
TSI0392	20	8
TSI0393	25	8

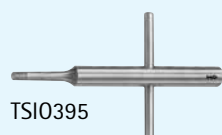
Chisel Handle F/ Interchangeable Blades

Catalog Number	Item
TSI0394	HANDLE W/KEY
TSI0395	REPLACEMENT KEY

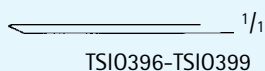


TSI0394

1/2

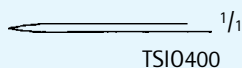


TSI0395



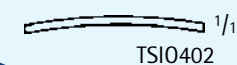
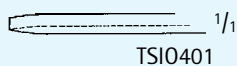
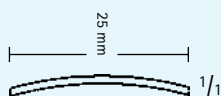
Chisel Blade, F/FL665R

Catalog Number	Tip Size (mm)	Tip Size (in.)	Working Length (mm)
TSIO396	5	3/16	45
TSIO397	10	3/8	45
TSIO398	16	5/8	45
TSIO399	25	1	45



Osteotome Blade, F/FL665R

Catalog Number	Tip Size (mm)	Tip Size (in.)	Working Length (mm)
TSIO400	25	1	78

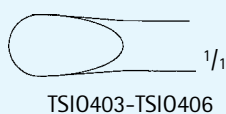


Concave Chisel Blade, F/FL665R

Catalog Number	Radius (mm)	Tip Size (mm)	Tip Size (in.)
TSIO401	50	25	1
TSIO402	70	25	1

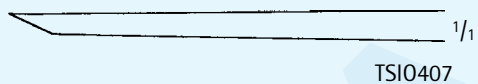
Lamina Gouge W/ HARTPRESS
Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO403	6	1/4	9 1/4
TSIO404	8	5/16	9 1/4
TSIO405	11	7/16	9 1/4
TSIO406	16	5/8	9 1/4



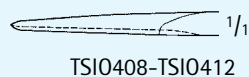
Chisel W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO407	20	3/4	9 5/8



LEXER-MINI Gouge W/ PEEK Handle

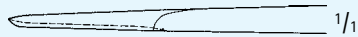
Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO408	4	5/32	7
TSIO409	6	1/4	7
TSIO410	8	5/16	7
TSIO411	10	3/8	7
TSIO412	12	1/2	7





TSIO413-TSIO419

1/2



TSIO413-TSIO419

1/1

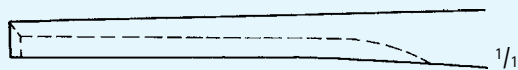
LEXER Gouge W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO413	5	3/16	8 7/8
TSIO414	7	9/32	8 7/8
TSIO415	10	3/8	8 7/8
TSIO416	15	5/8	8 7/8
TSIO417	20	3/4	8 7/8
TSIO418	25	1	8 7/8
TSIO419	30	1 3/16	8 7/8



TSIO420

1/2



TSIO420

1/1

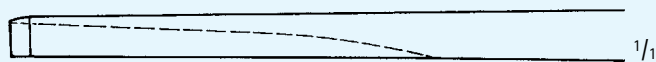
Gouge, F/ Removing Broken Screws, W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO420	9	3/8	8 7/8



TSIO421

1/2



1/1



1/1

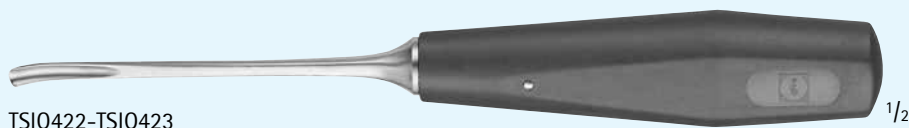


1/1

TSIO421

LEXER Spongiosa Gouge W/ PEEK Handle

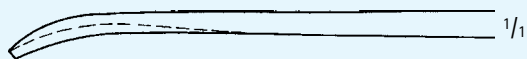
Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO421	10	3/8	11



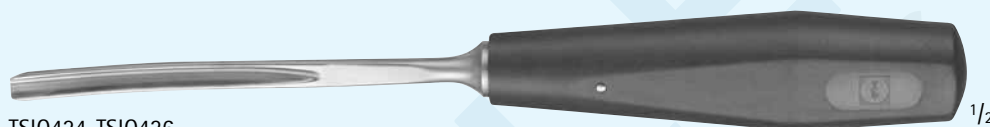
TSIO422-TSIO423

ZIELKE Gouge W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO422	5.5	7/32	9
TSIO423	9	3/8	9



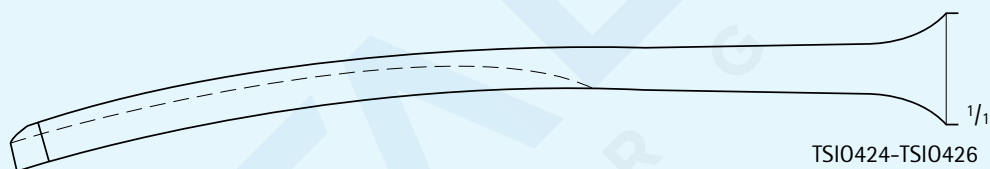
TSIO422-TSIO423



TSIO424-TSIO426

Spongiosa Gouge W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO424	5	3/16	CVD	9 3/4
TSIO425	10	3/8	CVD	9 3/4
TSIO426	15	5/8	CVD	9 3/4



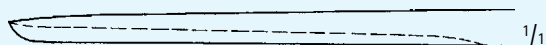
TSIO424-TSIO426



TSIO427-TSIO431

STILLE Gouge

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO427	10	3/8	8
TSIO428	12	1/2	8
TSIO429	15	5/8	8
TSIO430	20	3/4	8
TSIO431	25	1	8



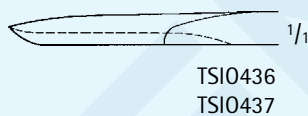
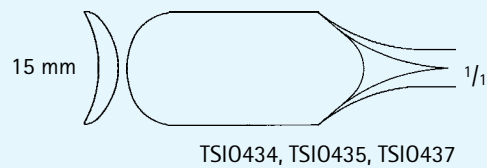
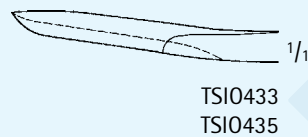
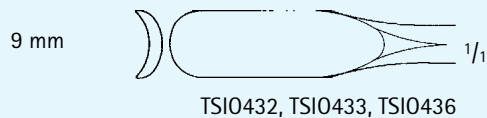
TSIO427-TSIO431

WAGNER Gouge W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade Shape	Length (in.)
TSIO432	9	3/8	ANG FWD	13 3/8
TSIO433	9	3/8	ANG BACK	13 3/8
TSIO434	15	5/8	ANG FWD	13 3/8
TSIO435	15	5/8	ANG BACK	13 3/8
TSIO436	9	3/8	STR	13 3/8
TSIO437	15	5/8	STR	13 3/8



TSIO432-TSIO437



TSIO438-TSIO451

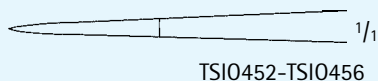
SMITH-PETERSON Gouge

Catalog Number	Tip	Tip Size (mm)	Length (in.)
TSIO438	STR	6	8
TSIO439	STR	10	8
TSIO440	STR	13	8
TSIO441	STR	16	8
TSIO442	STR	19	8
TSIO443	STR	25	8
TSIO444	STR	32	8
TSIO445	CVD	6	8
TSIO446	CVD	10	8
TSIO447	CVD	13	8
TSIO448	CVD	16	8
TSIO449	CVD	19	8
TSIO450	CVD	25	8
TSIO451	CVD	32	8



TSI0452-TSI0456

1/2



1/1

TSI0452-TSI0456

LEXER-MINI Osteotome W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSI0452	4	5/32	7
TSI0453	6	1/4	7
TSI0454	8	5/16	7
TSI0455	10	3/8	7
TSI0456	12	1/2	7



TSI0457-TSI0462

1/2



1/1

TSI0457-TSI0462

LEXER Osteotome W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSI0457	5	3/16	8 7/8
TSI0458	7	9/32	8 7/8
TSI0459	10	3/8	8 7/8
TSI0460	15	5/8	8 7/8
TSI0461	20	3/4	8 7/8
TSI0462	25	1	8 7/8
TSI0462	30	1 3/16	8 7/8
TSI0463	10	3/8	10 3/4
TSI0464	15	5/8	10 3/4



TSI0463-TSI0464

1/2



1/1

TSI0463-TSI0464

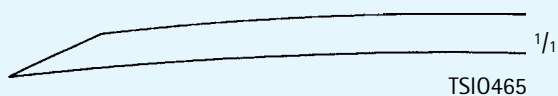
Chisel W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSI0465	16	5/8	10 1/2



TSI0465

1/2

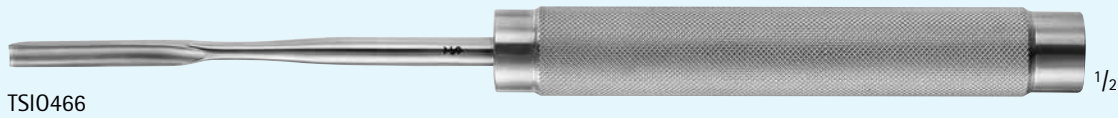


1/1

TSI0465

COBB Gouge

Catalog Number	Blade	Length (in.)
TSIO466	STR	11 1/2



Gouge, Double Curved,
W/ HARTPRESS Handle

Catalog Number	Tip Size (mm)	Tip Size (in.)	Length (in.)
TSIO467	25	1	11 1/4



HIBBS Gouge

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO468	16	5/8	STR	9 1/2
TSIO469	19	3/4	STR	9 1/2
TSIO470	22	7/8	STR	9 1/2
TSIO471	25	1	STR	9 1/2
TSIO472	28	1 1/8	STR	9 1/2
TSIO473	32	1 1/4	STR	9 1/2
TSIO474	38	1 1/2	STR	9 1/2
TSIO475	6	1/4	CVD	9 1/2
TSIO476	9	3/8	CVD	9 1/2
TSIO477	13	1/2	CVD	9 1/2
TSIO478	13	5/8	CVD	9 1/2
TSIO479	19	3/4	CVD	9 1/2
TSIO480	25	1	CVD	9 1/2
TSIO481	28	1 1/8	CVD	9 1/2
TSIO482	38	1 1/2	CVD	9 1/2

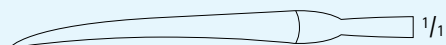




TSIO483-TSIO492



TSIO483-TSIO487



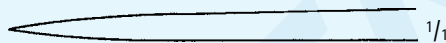
TSIO488-TSIO492

HOKE Osteotome

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO483	3	1/8	STR	6 1/8
TSIO484	6	1/4	STR	6 1/8
TSIO485	10	3/8	STR	6 1/8
TSIO486	13	1/2	STR	6 1/8
TSIO487	16	5/8	STR	6 1/8
TSIO488	3	1/8	CVD	6 1/8
TSIO489	6	1/4	CVD	6 1/8
TSIO490	10	3/8	CVD	6 1/8
TSIO491	13	1/2	CVD	6 1/8
TSIO492	16	5/8	CVD	6 1/8



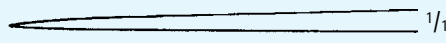
TSIO493-TSIO498



TSIO493-TSIO498



TSIO499-TSIO503



TSIO499-TSIO503



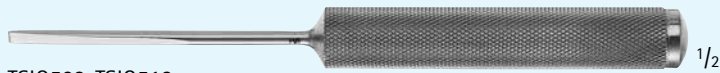
TSIO504-TSIO508



TSIO504-TSIO508

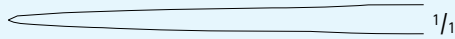
STILLE Osteotome

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO493	8	5/16	STR, HVY	8
TSIO494	10	3/8	STR, HVY	8
TSIO495	12	1/2	STR, HVY	8
TSIO496	15	5/8	STR, HVY	8
TSIO497	20	3/4	STR, HVY	8
TSIO498	25	1	STR, HVY	8
TSIO499	10	3/8	STR	8
TSIO500	12	1/2	STR	8
TSIO501	15	5/8	STR	8
TSIO502	20	3/4	STR	8
TSIO503	25	1	STR	8
TSIO504	10	3/8	CVD	8
TSIO505	12	1/2	CVD	8
TSIO506	15	5/8	CVD	8
TSIO507	20	3/4	CVD	8
TSIO508	25	1	CVD	8



TSIO509-TSIO512

1/2



1/1

TSIO509-TSIO512

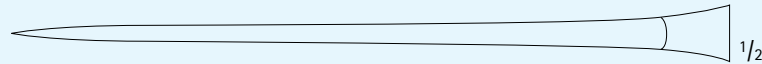
Gouge

Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSIO509	4	CVD	7
TSIO510	4	STR	7
TSIO511	6	CVD	7 1/2
TSIO512	6	STR	7 1/2



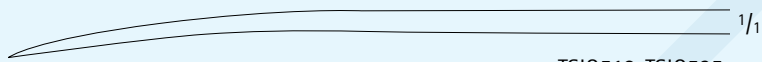
TSIO513-TSIO525

1/2



1/2

TSIO513-TSIO518



1/1

TSIO519-TSIO525

SMITH-PETERSON Osteotome

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO513	7	9/32	STR	8
TSIO514	11	7/16	STR	8
TSIO515	14	9/16	STR	8
TSIO516	17	21/32	STR	8
TSIO517	19	3/4	STR	8
TSIO518	25	1	STR	8
TSIO519	6	1/4	CVD	8
TSIO520	9.5	3/8	CVD	8
TSIO521	13	1/2	CVD	8
TSIO522	16	5/8	CVD	8
TSIO523	19	3/4	CVD	8
TSIO524	25	1	CVD	8
TSIO525	32	1 1/4	CVD	8



TSIO526-TSIO535

1/2



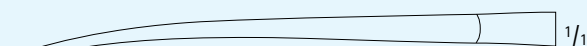
1/1

TSIO526-TSIO535



TSIO536-TSIO545

1/2



1/1

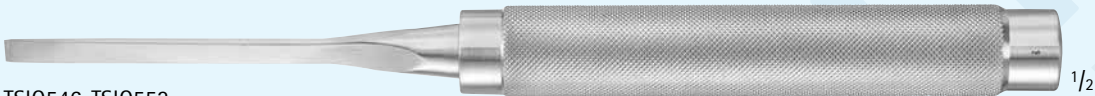
TSIO536-TSIO545

HIBBS Osteotome

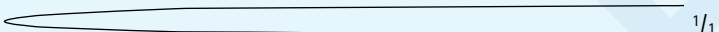
Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSIO526	6	1/4	STR	9 5/8
TSIO527	10	3/8	STR	9 5/8
TSIO528	13	1/2	STR	9 5/8
TSIO529	16	5/8	STR	9 5/8
TSIO530	19	3/4	STR	9 5/8
TSIO531	22	7/8	STR	9 5/8
TSIO532	25	1	STR	9 5/8
TSIO533	28	1 1/8	STR	9 5/8
TSIO534	32	1 1/4	STR	9 5/8
TSIO535	38	1 1/2	STR	9 5/8
TSIO536	6	1/4	CVD	9 5/8
TSIO537	10	3/8	CVD	9 5/8
TSIO538	13	1/2	CVD	9 5/8
TSIO539	16	5/8	CVD	9 5/8
TSIO540	19	3/4	CVD	9 5/8
TSIO541	22	7/8	CVD	9 5/8
TSIO542	25	1	CVD	9 5/8
TSIO543	28	1 1/8	CVD	9 5/8
TSIO544	32	1 1/4	CVD	9 5/8
TSIO545	38	1 1/2	CVD	9 5/8

COBB Osteotomes

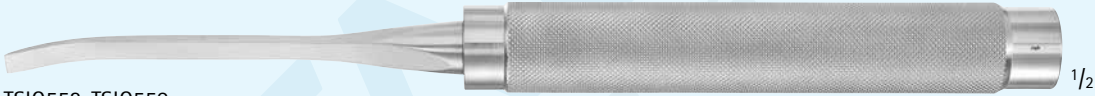
Catalog Number	Tip Size (mm)	Blade	Length (in.)
TSIO546	6	STR	11
TSIO547	10	STR	11
TSIO548	13	STR	11
TSIO549	13	STR	11
TSIO550	16	STR	11
TSIO551	19	STR	11
TSIO552	25	STR	11
TSIO553	6	CVD	11
TSIO554	10	CVD	11
TSIO555	13	CVD	11
TSIO556	16	CVD	11
TSIO557	19	CVD	11
TSIO558	25	CVD	11
TSIO559	32	CVD	11



TSIO546-TSIO552



TSIO546-TSIO552



TSIO553-TSIO559



TSIO553-TSIO559



TSIO560-TSIO570



TSIO560-TSIO570

Osteotome W/ Hexagonal Handle

Catalog Number	Tip Size (mm)	Length (in.)
TSIO560	2	6 1/4
TSIO561	3	6 1/4
TSIO562	4	6 1/4
TSIO563	5	6 1/4
TSIO564	6	6 1/4
TSIO565	7	6 1/4
TSIO566	8	6 1/4
TSIO567	9	6 1/4
TSIO568	10	6 1/4
TSIO569	11	6 1/4
TSIO570	12	6 1/4



TSIO571-TSIO576



TSIO571-TSIO576

CONVERSE Osteotome

Catalog Number	Tip Size (mm)	Length (in.)
TSIO571	2	7
TSIO572	4	7
TSIO573	6	7
TSIO574	8	7
TSIO575	10	7
TSIO576	12	7



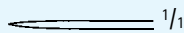
TSIO577-TSIO578

RUBIN Osteotome, W/ Finger Grip

Catalog Number	Tip Size (mm)	Length (in.)
TSIO577	10	6 1/2
TSIO578	14	6 1/2



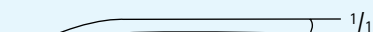
TSI0580-TSI0590



TSI0580-TSI0590



TSI0591-TSI0598



TSI0591-TSI0598

LAMBOTTE Osteotome

Catalog Number	Tip Size (mm)	Blade	Length (in.)
TSI0579	SET OF 7	STR	-
TSI0580	2	STR	5
TSI0581	4	STR	5
TSI0582	6	STR	5
TSI0583	8	STR	5
TSI0584	10	STR	5
TSI0585	12	STR	5
TSI0586	14	STR	5
TSI0587	15	STR	5
TSI0588	18	STR	5
TSI0589	19	STR	5
TSI0590	20	STR	5
TSI0591	2	CVD	5
TSI0592	4	CVD	5
TSI0593	6	CVD	5
TSI0594	8	CVD	5
TSI0595	10	CVD	5
TSI0596	12	CVD	5
TSI0597	14	CVD	5
TSI0598	15	CVD	5

LAMBOTTE MINI OSTEOTOME SET:

CONTAINS SEVEN MG050R STRAIGHT 5" OSTEOTOMES:

2MM, 4MM, 6MM, 8MM, 10MM, 12MM, 14MM PLUS MALLET



TSI0600-TSI0607



TSI0599-TSI0607

LAMBOTTE Osteotome with Calibrations

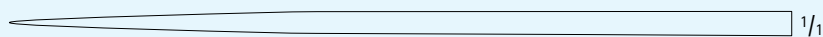
Catalog Number	Tip Size (mm)	Blade	Length (in.)
TSI0599	COMPLETE SET	-	-
TSI0600	4	STR	7 1/4
TSI0601	6	STR	7 1/4
TSI0602	7	STR	7 1/4
TSI0603	8	STR	7 1/4
TSI0604	10	STR	7 1/4
TSI0605	12	STR	7 1/4
TSI0606	16	STR	7 1/4
TSI0607	22	STR	7 1/4

TSI0599 includes:

Osteotome TSI0600-TSI0607 and Mallet



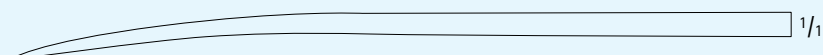
TSI0608-TSI0614



TSI0608-TSI0614



TSI0615-TSI0621



TSI0615-TSI0621

LAMBOTTE Osteotome

Catalog Number	Tip Size (mm)	Tip Size (in.)	Blade	Length (in.)
TSI0608	COMPLETE SET		STR	
TSI0609	6	1/4	STR	9
TSI0610	13	1/2	STR	9
TSI0611	19	3/4	STR	9
TSI0612	25	1	STR	9
TSI0613	32	1 1/4	STR	9
TSI0614	38	1 1/2	STR	9
TSI0615	COMPLETE SET		CVD	
TSI0616	6	1/4	CVD	9
TSI0617	13	1/2	CVD	9
TSI0618	19	3/4	CVD	9
TSI0619	25	1	CVD	9
TSI0620	32	1 1/4	CVD	9
TSI0621	38	1 1/2	CVD	9

LAMBOTTE Osteotome

Catalog Number	Tip Size (mm)	Blade	Length (in.)
TSI0622	4	STR	9 5/8
TSI0623	8	STR	9 5/8
TSI0624	10	STR	9 5/8
TSI0625	13	STR	9 5/8
TSI0626	15	STR	9 5/8
TSI0627	18	STR	9 5/8
TSI0628	20	STR	9 5/8
TSI0629	25	STR	9 5/8
TSI0630	30	STR	9 5/8
TSI0631	38	STR	9 5/8
TSI0632	44	STR	9 5/8
TSI0633	50	STR	9 5/8
TSI0634	8	CVD	9 5/8
TSI0635	13	CVD	9 5/8
TSI0636	18	CVD	9 5/8
TSI0637	25	CVD	9 5/8
TSI0638	30	CVD	9 5/8
TSI0639	38	CVD	9 5/8



FL650R-TSI0633



FL650R-TSI0633



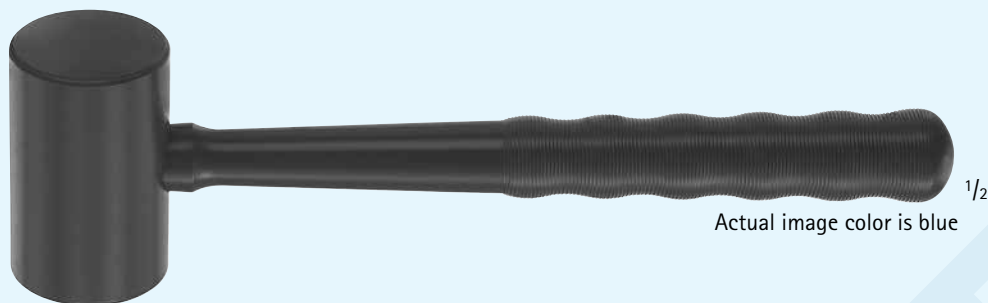
TSI0634-TSI0639



TSI0634-TSI0639

Mallet, PEEK

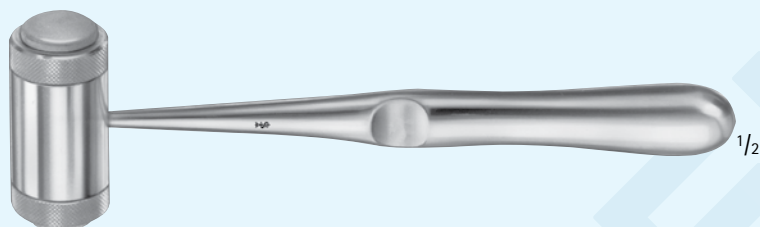
Catalog Number	Handle	Weight (gr)	Diameter (mm)	Length (in.)
TSIO640	HARTPRESS	230	42	9 3/4
TSIO641	HARTPRESS	315	50	9 3/4



TSIO640-TSIO641

MEAD Mallet, Removable Discs, 180gr

Catalog Number	Description	Diameter (mm)	Length (in.)
TSIO642	COMPLETE	20	7 1/2
TSIO643	SPARE DISCS, F/FL035R, 2/SET	20	



TSIO642

Mallet W/ Removable Nylon Discs, 135gr

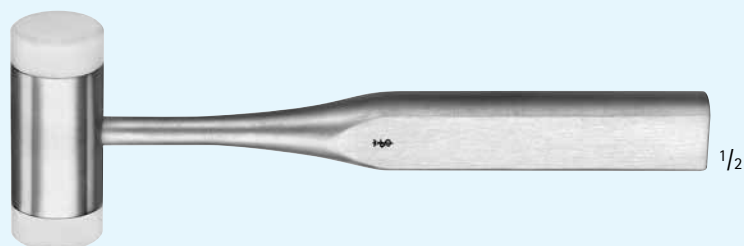
Catalog Number	Description	Diameter (mm)	Length (in.)
TSIO644	COMPLETE	25	7 1/4
TSIO645	NYLON SPARE DISCS, F/FL036R, 2/SET	25	



TSIO644

Mallet, 226gr

Catalog Number	Description	Diameter (mm)	Length (in.)
TSIO646	ONE SIDE NYLON, ONE SIDE METAL	26	7 1/4
TSIO647	REPLACEMENT NYLON DISC FOR MB629R MALLET HEAD		



TSIO646



TSI0648

Mallet, 155gr

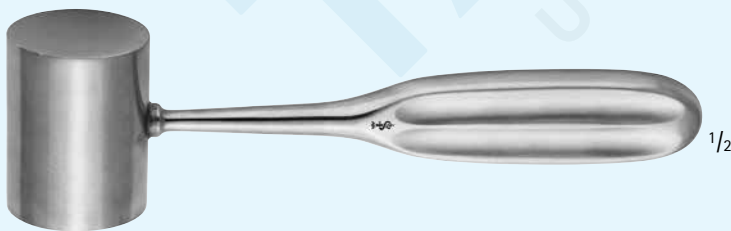
Catalog Number	Diameter (mm)	Length (in.)
TSI0648	25	7 1/2



TSI0649

Mallet, Copper

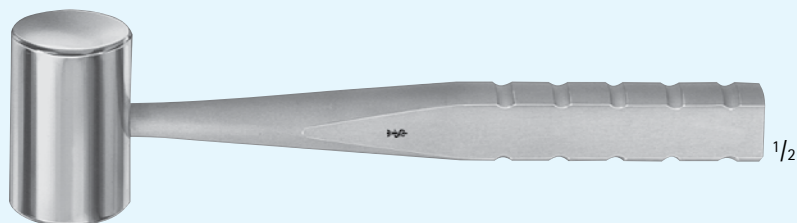
Catalog Number	Diameter (mm)	Length (in.)
TSI0649	20	6 1/2



TSI0650

KIRK Mallet, 560gr

Catalog Number	Diameter (mm)	Length (in.)
TSI0650	35	7 1/4



TSIO651

COTTLE Mallet, Flat/Round, 235gr

Catalog Number	Diameter (mm)	Length (in.)
TSIO651	30	7 1/4



TSIO652

HAJEK Mallet, 140gr

Catalog Number	Diameter (mm)	Length (in.)
TSIO652	27	8 3/4



TSIO653

BERGMANN Mallet, 260gr

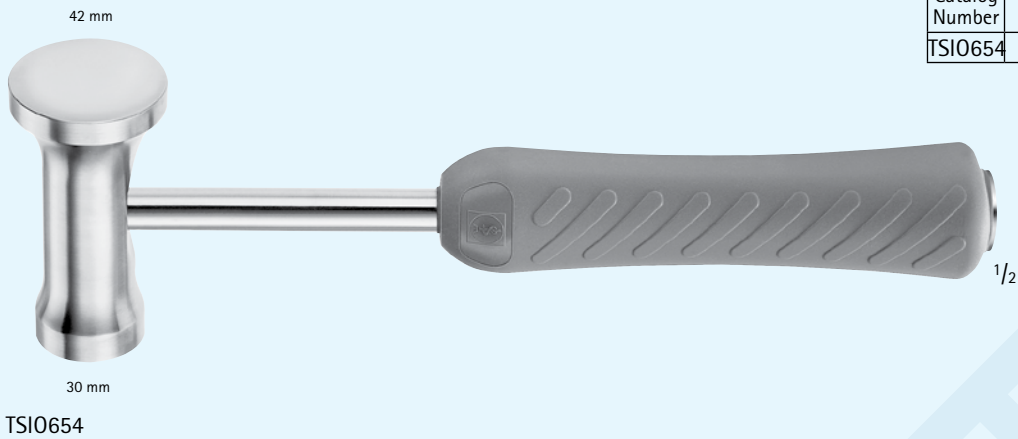
Catalog Number	Diameter (mm)	Length (in.)
TSIO653	30	9 1/4

PEEK

1/2

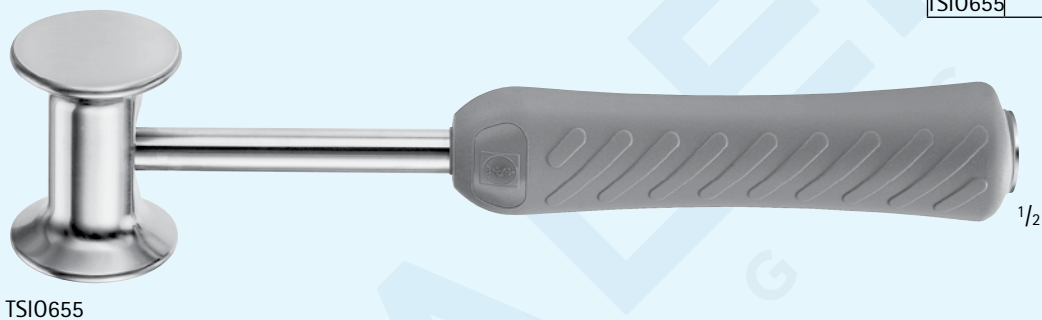
Mallet, 285gr, W/ Silicone Handle

Catalog Number	Diameter (mm)	Length (in.)
TSI0654	30 / 42	9 1/2



BERGMANN Mallet, 300gr, W/ Silicone Handle

Catalog Number	Diameter (mm)	Length (in.)
TSI0655	45	9 5/8



Orthopedic Mallet

Catalog Number	Diameter (mm)	Length (in.)
TSI0656	30	7 1/4
TSI0657	38	7 1/4



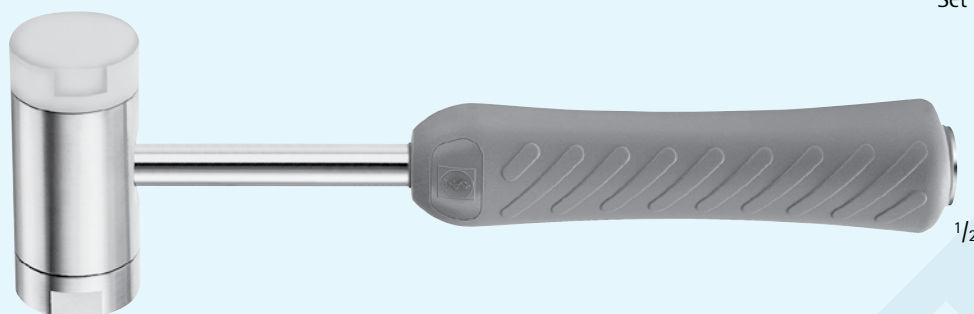


**WAGNER Mallet Set, 130gr,
W/ Silicone Handle**

Catalog Number	Diameter (mm)	Length (in.)
TSIO658	35	9 1/4

Set includes:

- 1 PR Metal Discs TSIO659
- 1 PR Plastic Discs TSIO660
- Wrench TSIO658/60



TSIO658



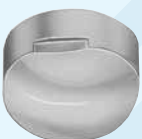
- 215 gr
1 Metal Disc, flat
1 Metal Disc, convex



TSIO659



- 30 gr
1 Plastic Disc, flat
1 Plastic Disc, convex



TSIO660

**OMBREDANNE Mallet, 520gr,
W/ Silicone Handle**

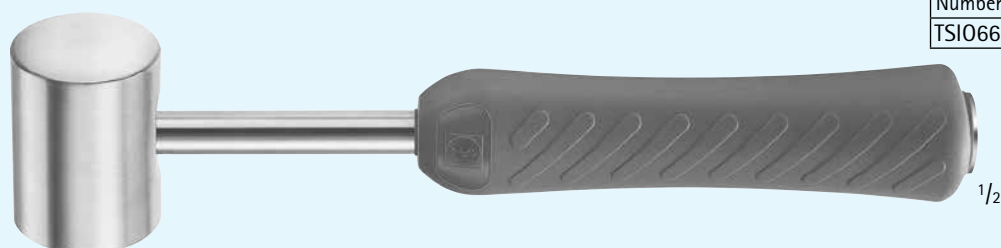
Catalog Number	Diameter (mm)	Length (in.)
TSIO661	40	9 1/2



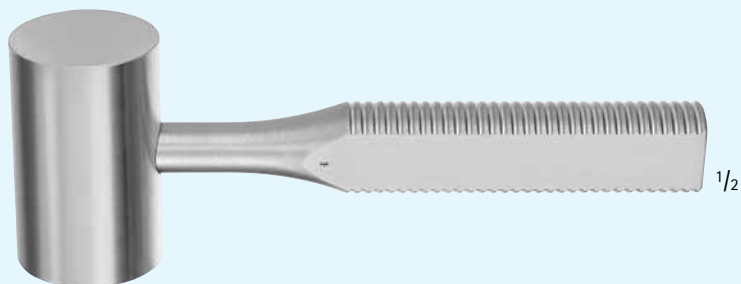
TSIO661

**HEATH Copper Head Mallet, 725gr,
W/ Silicone Handle**

Catalog Number	Diameter (mm)	Length (in.)
TSIO662	40	9 1/4



TSIO662



TSIO663

HEATH Mallet, 823gr

Catalog Number	Diameter (mm)	Size	Length (in.)
TSIO663	40	1.8 lbs	7 1/4



TSIO664

Bone Graft Tamper

Catalog Number	Diameter (mm)	Length (in.)
TSIO664	12	7 7/8



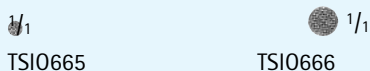
TSIO664



TSIO665-TSIO667

Bone Tamp

Catalog Number	Diameter (mm)	Length (in.)
TSIO665	2	6 1/4
TSIO666	4	6 1/4
TSIO667	6	6 1/4
TSIO668	8	6 1/4
TSIO669	10	6 1/4



TSIO665

TSIO666

TSIO667



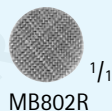
TSIO668



MB801R



TSIO669



MB802R



TSIO670-FG096

SYPERT Spinal Impactor, W/ HART-PRESS Handle

Catalog Number	Tip Size (mm)	Length (in.)
TSIO670	3 x 8	11 1/2
TSIO671	4 x 10	11 1/2
TSIO672	5 x 15	11 1/2
TSIO673	6 x 20	11 1/2



TSIO670



TSIO671



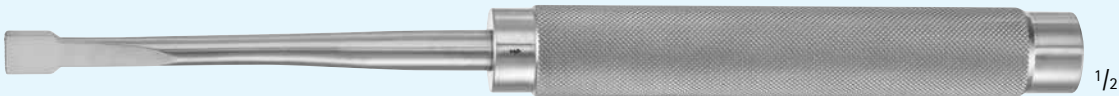
TSIO672



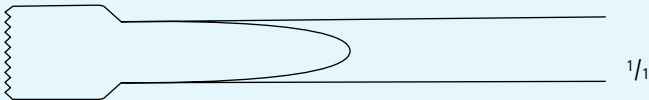
TSIO673

COBB Bone Impactor

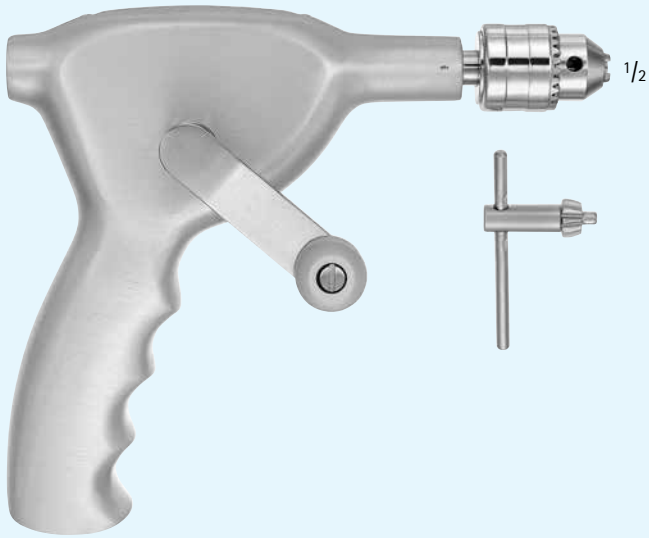
Catalog Number	Tip Size (mm)	Length (in.)
TSIO674	3 x 12	11 1/4



TSIO674



TSIO674



RALKS Hand Drill, Cannulated

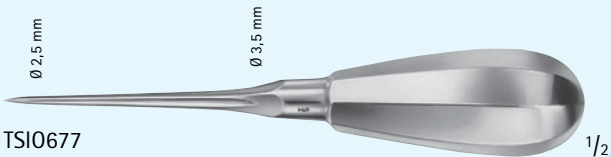
Catalog Number	Length (in.)
TSI0675	6 1/4

TSI0675



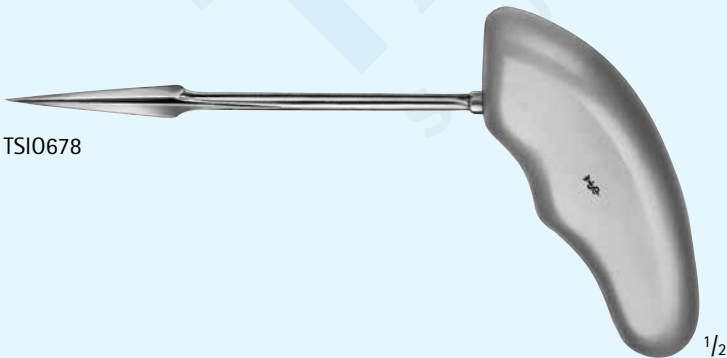
CHAMPIONNIÈRE Bone Drill

Catalog Number	Length (in.)
TSI0676	6 3/4



Awl/Reamer

Catalog Number	Length (in.)
TSI0677	6



Reamer

Catalog Number	Length (in.)
TSI0678	7



PERTHES Reamer

Catalog Number	Length (in.)
TSI0679	8 1/2



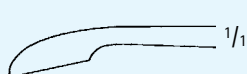
Bone Biopsy Trephine

Catalog Number	Diameter (mm)	Length (in.)
TSI0680	3.9 / 5	6 1/4
TSI0681	6.4 / 8	6 1/4





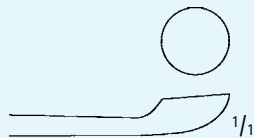
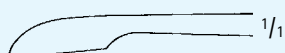
TSI0682



TSI0682



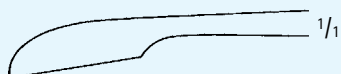
TSI0683



TSI0683



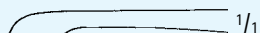
TSI0684



TSI0684



TSI0685



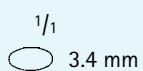
TSI0685

Bone Curette, Double Ended

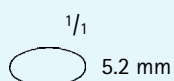
Catalog Number	Tip Size (mm)	Length (in.)
TSI0682	6 / 7	5 1/8
TSI0683	7 / 8	6 1/4
TSI0684	8 / 11	7 7/8
TSI0685	7 / 6	8 1/4



TSI0686-TSI0687



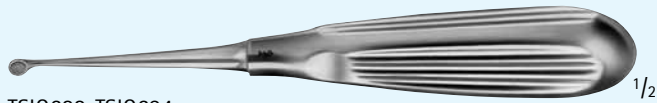
TSI0686



TSI0687

WILLIGER Bone Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSI0686	00	3.4	6 3/4
TSI0687	1	5.2	6 3/4



TSIO688-TSIO694



1/1
○ 3 mm
TSIO688

1/1
○ 4 mm
TSIO689

1/1
○ 5 mm
TSIO690

1/1
○ 6 mm
TSIO691

1/1
○ 8 mm
TSIO692

1/1
○ 10 mm
TSIO693

1/1
○ 12 mm
TSIO694

BRUNS Curette, Round

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO688	000	3	6 1/2
TSIO689	00	4	6 1/2
TSIO690	0	5	6 1/2
TSIO691	1	6	6 1/2
TSIO692	2	8	6 1/2
TSIO693	3	10	6 1/2
TSIO694	4	12	6 1/2



TSIO695-TSIO701



1/1
○ 2.5 mm
TSIO695

1/1
○ 3.4 mm
TSIO696

1/1
○ 4.2 mm
TSIO697

1/1
○ 5.2 mm
TSIO698

1/1
○ 6.3 mm
TSIO699

1/1
○ 7.4 mm
TSIO700

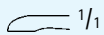
1/1
○ 8 mm
TSIO701

SCHEDE Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO695	000	2.5	6 3/4
TSIO696	00	3.4	6 3/4
TSIO697	0	4.2	6 3/4
TSIO698	1	5.2	6 3/4
TSIO699	2	6.3	6 3/4
TSIO700	3	7.4	6 3/4
TSIO701	4	8.0	6 3/4



TSIO702-TSIO711



1/1
○ 2.8 mm
TSIO702

1/1
○ 3.6 mm
TSIO703

1/1
○ 4.4 mm
TSIO704

1/1
○ 5.2 mm
TSIO705

1/1
○ 6.8 mm
TSIO706

1/1
○ 8.5 mm
TSIO707

1/1
○ 10 mm
TSIO708

1/1
○ 11.5 mm
TSIO709

1/1
○ 13 mm
TSIO710

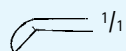
1/1
○ 14.5 mm
TSIO711

VOLKMANN Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO702	0000	2.8	6 3/4
TSIO703	000	3.6	6 3/4
TSIO704	00	4.4	6 3/4
TSIO705	0	5.2	6 3/4
TSIO706	1	6.8	6 3/4
TSIO707	2	8.5	6 3/4
TSIO708	3	10.0	6 3/4
TSIO709	4	11.5	6 3/4
TSIO710	5	13.0	6 3/4
TSIO711	6	14.5	6 3/4



TSIO712-TSIO715


 $\frac{1}{1}$
○ 2.8 mm
TSIO712

 $\frac{1}{1}$
○ 3.6 mm
TSIO713

 $\frac{1}{1}$
○ 4.4 mm
TSIO714

 $\frac{1}{1}$
○ 5.2 mm
TSIO715

DAUBENSPECK Bone Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO712	0000	2.8	7 7/8
TSIO713	000	3.6	7 7/8
TSIO714	00	4.4	7 7/8
TSIO715	0	5.2	7 7/8



TSIO716-TSIO720


 $\frac{1}{1}$
○ 1.8 mm
TSIO716

 $\frac{1}{1}$
○ 2.0 mm
TSIO717

 $\frac{1}{1}$
○ 2.4 mm
TSIO718

 $\frac{1}{1}$
○ 2.6 mm
TSIO719

 $\frac{1}{1}$
○ 2.8 mm
TSIO720

LEMPERT Bone Curette

Catalog Number	Tip Size (mm)	Length (in.)
TSIO716	1.8	8 1/2
TSIO717	2.0	8 1/2
TSIO718	2.4	8 1/2
TSIO719	2.6	8 1/2
TSIO720	2.8	8 1/2



TSIO721-TSIO723


 $\frac{1}{1}$
○
TSIO721

EPSTEIN Spinal Curette

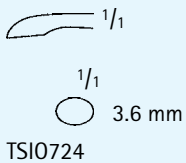
Catalog Number	Tip Size (mm)	Size (#)	Length (in.)
TSIO721	2.0	000	8
TSIO722	2.5	00	8
TSIO723	3.0	0	8

SCOVILLE Bone Curette

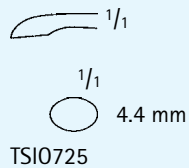
Catalog Number	Tip Size (#)	Tip Size (mm)	Tip	Length (in.)
TSIO724	000	3.6	FWD STR	9 3/4
TSIO725	00	4.4	FWD STR	9 3/4
TSIO726	0	5.2	FWD STR	9 3/4
TSIO727	1	6.8	FWD STR	9 3/4
TSIO728	000	3.6	FWD ANG	9 3/4
TSIO729	00	4.4	FWD ANG	9 3/4
TSIO729	0	5.2	FWD ANG	9 3/4
TSIO730	1	6.8	FWD ANG	9 3/4



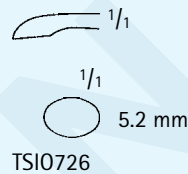
TSIO724-TSIO730



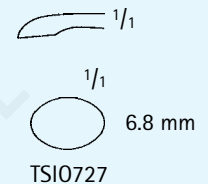
TSIO724



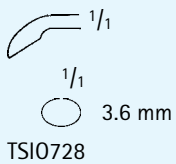
TSIO725



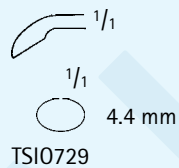
TSIO726



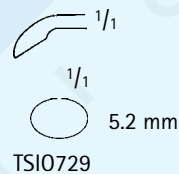
TSIO727



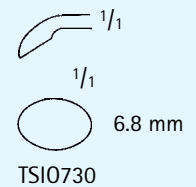
TSIO728



TSIO729



TSIO729



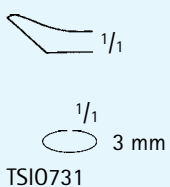
TSIO730

BUSHE Bone Curette

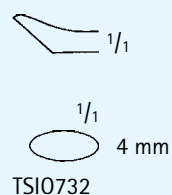
Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSIO731	3.0	REV ANG	9 3/4
TSIO732	4.0	REV ANG	9 3/4
TSIO733	5.0	REV ANG	9 3/4



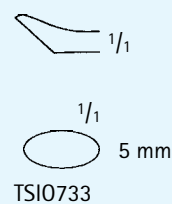
TSIO731-TSIO733



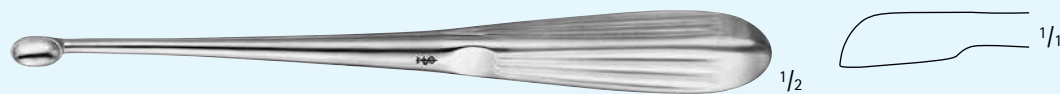
TSIO731



TSIO732



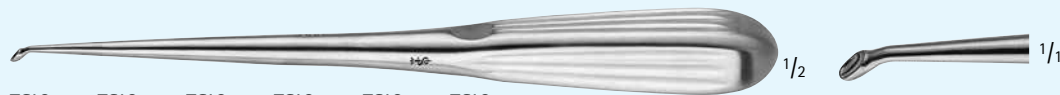
TSIO733



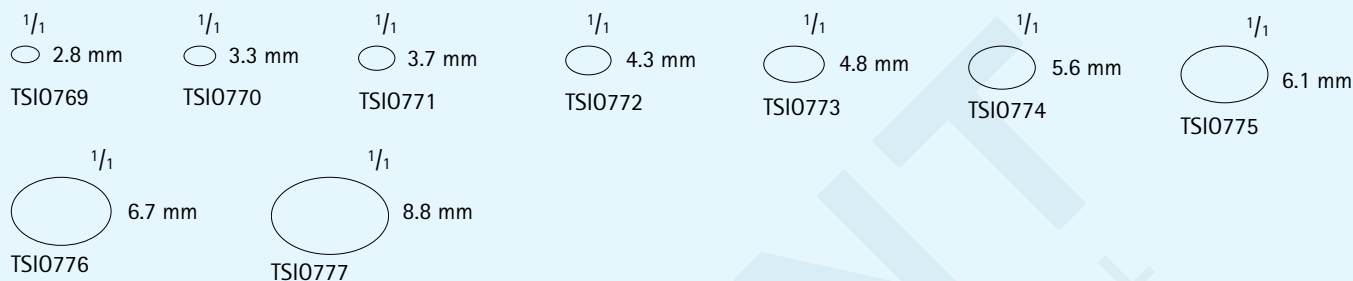
TSIO734-TSIO744, TSIO745-TSIO755, TSIO756-TSIO766



TSIO767-TSIO777, TSIO778-TSIO789, TSIO790-TSIO800



TSIO801-TSIO811, TSIO812-TSIO823, TSIO824-TSIO834



BRUNS Spinal Curette

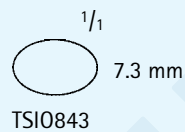
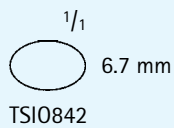
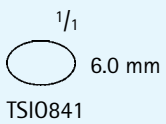
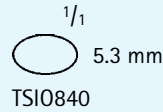
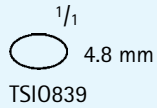
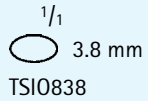
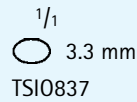
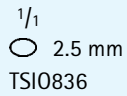
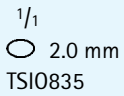
Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO734	00000	STR	8
TSIO735	0000	STR	8
TSIO736	000	STR	8
TSIO737	00	STR	8
TSIO738	0	STR	8
TSIO739	1	STR	8
TSIO740	2	STR	8
TSIO741	3	STR	8
TSIO742	4	STR	8
TSIO743	5	STR	8
TSIO744	6	STR	8
TSIO767	00000	FWD ANG	8
TSIO768	0000	FWD ANG	8
TSIO769	000	FWD ANG	8
TSIO770	00	FWD ANG	8
TSIO771	0	FWD ANG	8
TSIO772	1	FWD ANG	8
TSIO773	2	FWD ANG	8
TSIO774	3	FWD ANG	8
TSIO775	4	FWD ANG	8
TSIO776	5	FWD ANG	8
TSIO777	6	FWD ANG	8
TSIO801	00000	REV ANG	8
TSIO802	0000	REV ANG	8
TSIO803	000	REV ANG	8
TSIO804	00	REV ANG	8
TSIO805	0	REV ANG	8
TSIO806	1	REV ANG	8
TSIO807	2	REV ANG	8
TSIO808	3	REV ANG	8
TSIO809	4	REV ANG	8
TSIO810	5	REV ANG	8
TSIO811	6	REV ANG	8

Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO745	00000	STR	9
TSIO746	0000	STR	9
TSIO747	000	STR	9
TSIO748	00	STR	9
TSIO749	0	STR	9
TSIO750	1	STR	9
TSIO751	2	STR	9
TSIO752	3	STR	9
TSIO753	4	STR	9
TSIO754	5	STR	9
TSIO755	6	STR	9
TSIO779	00000	FWD ANG	9
TSIO780	0000	FWD ANG	9
TSIO781	000	FWD ANG	9
TSIO782	00	FWD ANG	9
TSIO783	0	FWD ANG	9
TSIO784	1	FWD ANG	9
TSIO785	2	FWD ANG	9
TSIO786	3	FWD ANG	9
TSIO787	4	FWD ANG	9
TSIO788	5	FWD ANG	9
TSIO789	6	FWD ANG	9
TSIO813	00000	REV ANG	9
TSIO814	0000	REV ANG	9
TSIO815	000	REV ANG	9
TSIO816	00	REV ANG	9
TSIO817	0	REV ANG	9
TSIO818	1	REV ANG	9
TSIO819	2	REV ANG	9
TSIO820	3	REV ANG	9
TSIO821	4	REV ANG	9
TSIO822	5	REV ANG	9
TSIO823	6	REV ANG	9

Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO756	00000	STR	12
TSIO757	0000	STR	12
TSIO758	000	STR	12
TSIO759	00	STR	12
TSIO760	0	STR	12
TSIO761	1	STR	12
TSIO762	2	STR	12
TSIO763	3	STR	12
TSIO764	4	STR	12
TSIO765	5	STR	12
TSIO766	6	STR	12
TSIO790	00000	FWD ANG	12
TSIO791	0000	FWD ANG	12
TSIO792	000	FWD ANG	12
TSIO793	00	FWD ANG	12
TSIO794	0	FWD ANG	12
TSIO795	1	FWD ANG	12
TSIO796	2	FWD ANG	12
TSIO797	3	FWD ANG	12
TSIO798	4	FWD ANG	12
TSIO799	5	FWD ANG	12
TSIO800	6	FWD ANG	12
TSIO824	00000	REV ANG	12
TSIO825	0000	REV ANG	12
TSIO826	000	REV ANG	12
TSIO827	00	REV ANG	12
TSIO828	0	REV ANG	12
TSIO829	1	REV ANG	12
TSIO830	2	REV ANG	12
TSIO831	3	REV ANG	12
TSIO832	4	REV ANG	12
TSIO833	5	REV ANG	12
TSIO834	6	REV ANG	12



TSIO835-TSIO843

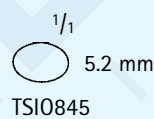
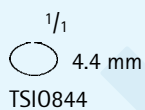
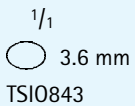
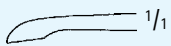


BRUNS Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Tip	Length (in.)
TSIO835	000	2.0	STR	9
TSIO836	00	2.5	STR	9
TSIO837	0	3.3	STR	9
TSIO838	1	3.8	STR	9
TSIO839	2	4.8	STR	9
TSIO840	3	5.3	STR	9
TSIO841	4	6.0	STR	9
TSIO842	5	6.7	STR	9
TSIO843	6	7.3	STR	9



TSIO843-TSIO845

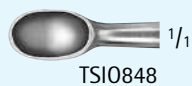
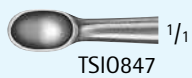


SIMON Bone Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO843	000	3.6	9 1/4
TSIO844	00	4.4	9 1/4
TSIO845	0	5.2	9 1/4



TSIO846-TSIO848



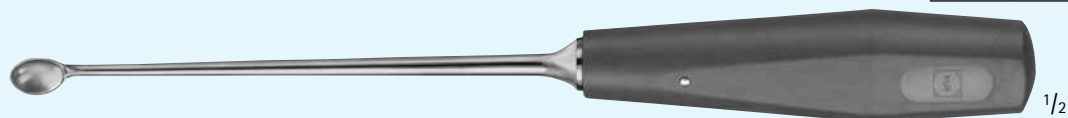
HIBBS Curette

Catalog Number	Tip	Length (in.)
TSIO846	SMALL	8
TSIO847	MEDIUM	8
TSIO848	LARGE	8

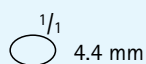
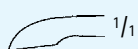


Bone Curette, Long, W/ PEEK Handle

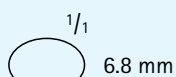
Catalog Number	Tip Size (#)	Tip Size (mm)	Length (in.)
TSIO845	00	4.4	10 5/8
TSIO846	1	6.8	10 5/8
TSIO847	2	8.5	10 5/8
TSIO848	3	10.0	10 5/8



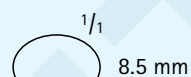
TSIO845-FK672R



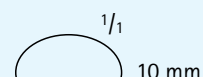
TSIO845



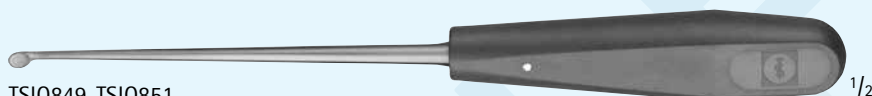
TSIO846



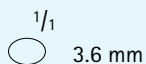
TSIO847



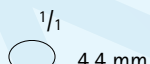
TSIO848



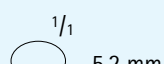
TSIO849-TSIO851



TSIO849



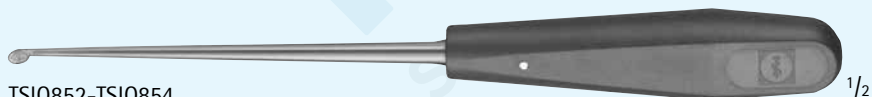
TSIO850



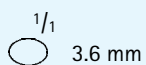
TSIO851

CASPAR Curette, W/ PEEK Handle

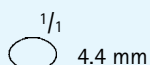
Catalog Number	Tip Size (#)	Tip Size (mm)	Blade	Length (in.)
TSIO849	000	3.6	STR	8 3/4
TSIO850	00	4.4	STR	8 3/4
TSIO851	0	5.2	STR	8 3/4
TSIO852	000	3.6	CVD	8 3/4
TSIO853	00	4.4	CVD	8 3/4
TSIO854	0	5.2	CVD	8 3/4



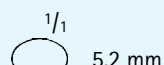
TSIO852-TSIO854



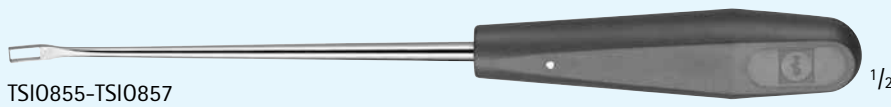
TSIO852



TSIO853



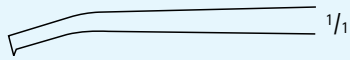
TSIO854



TSI0855-TSI0857

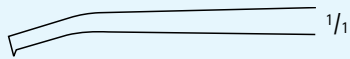
CASPAR Curette, W/ PEEK Handle

Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSI0855	4	SQUARE	8 3/4
TSI0856	5	SQUARE	8 3/4
TSI0857	6	SQUARE	8 3/4



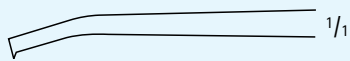
4 mm  1/1

TSI0855



5 mm  1/1

TSI0856



6 mm  1/1

TSI0857

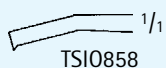


CASPAR Bone Curette, Toothed

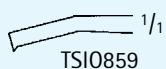
Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSI0858	4.0	SQUARE	9 3/4
TSI0859	5.0	SQUARE	9 3/4



TSI0858-TSI0859



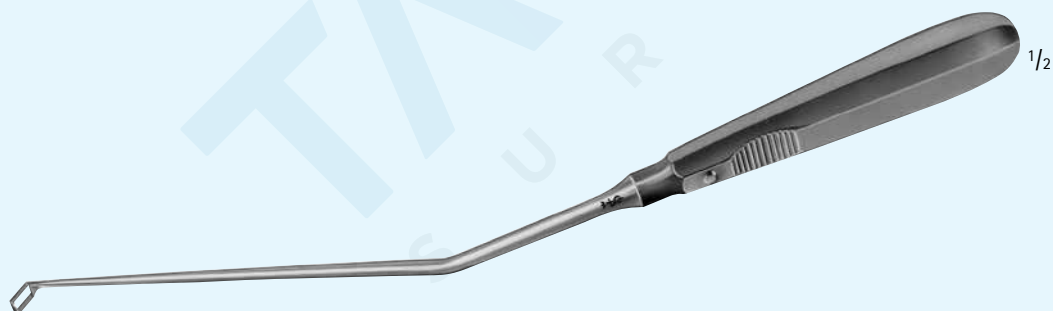
TSI0858



TSI0859

CASPAR Bone Curette, Toothed

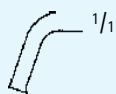
Catalog Number	Tip Size (mm)	Tip	Length (in.)
TSI0860	3.0	SQUARE, ANG	10 5/8
TSI0861	4.0	SQUARE, ANG	10 5/8



TSI0860-TSI0861



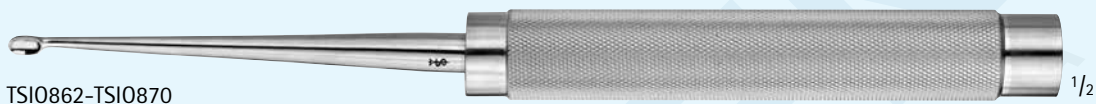
TSI0860



TSI0861

COBB Curette

Catalog Number	Tip Size (#)	Tip Size (mm)	Tip	Length (in.)
TSI0862	000	2.0	STR	11
TSI0863	00	2.5	STR	11
TSI0864	0	3.0	STR	11
TSI0865	1	3.5	STR	11
TSI0866	2	4.5	STR	11
TSI0867	3	5.5	STR	11
TSI0868	4	7.5	STR	11
TSI0869	5	8.5	STR	11
TSI0870	6	10.0	STR	11
TSI0871	000	2.0	ANG	11
TSI0872	00	2.5	ANG	11
TSI0873	0	3.0	ANG	11
TSI0874	1	3.5	ANG	11
TSI0875	2	4.5	ANG	11
TSI0876	3	5.5	ANG	11
TSI0877	4	7.5	ANG	11
TSI0878	5	8.5	ANG	11
TSI0879	6	10.0	ANG	11



$\frac{1}{16}$
○ 2.0 mm
TSI0862, TSI0871

$\frac{1}{16}$
○ 2.5 mm
TSI0863, TSI0872

$\frac{1}{16}$
○ 3.0 mm
TSI0864, TSI0873

$\frac{1}{16}$
○ 3.5 mm
TSI0865, TSI0874

$\frac{1}{16}$
○ 4.5 mm
TSI0866, TSI0875

$\frac{1}{16}$
○ 5.5 mm
TSI0867, TSI0876

$\frac{1}{16}$
○ 7.5 mm
TSI0868, TSI0877

$\frac{1}{16}$
○ 8.5 mm
TSI0869, TSI0878

$\frac{1}{16}$
○ 10.0 mm
TSI0870, TSI0879



Colored Cervical Curette

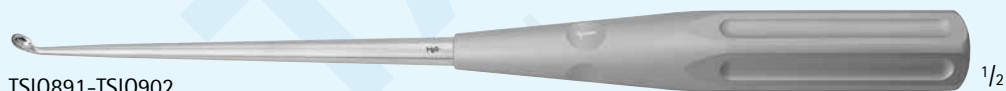
Catalog Number	Tip Size (#)	Tip	Color	Length (in.)
TSI0879	000000	STR	RED	10
TSI0880	00000	STR	SILVER	10
TSI0881	0000	STR	PURPLE	10
TSI0882	000	STR	TURQUOISE	10
TSI0883	00	STR	GOLD	10
TSI0884	0	STR	GREEN	10
TSI0885	1	STR	ORANGE	10
TSI0886	2	STR	BLUE	10
TSI0887	3	STR	GRAY	10
TSI0888	4	STR	BLACK	10
TSI0889	5	STR	BLACK	10
TSI0890	6	STR	BLACK	10
TSI0891	000000	ANG	RED	10
TSI0892	00000	ANG	SILVER	10
TSI0893	0000	ANG	PURPLE	10
TSI0894	000	ANG	TURQUOISE	10
TSI0895	00	ANG	GOLD	10
TSI0896	0	ANG	GREEN	10
TSI0897	1	ANG	ORANGE	10
TSI0898	2	ANG	BLUE	10
TSI0899	3	ANG	GRAY	10
TSI0900	4	ANG	BLACK	10
TSI0901	5	ANG	BLACK	10
TSI0902	6	ANG	BLACK	10



TSI0879-TSI0890



TSI0879-TSI0890



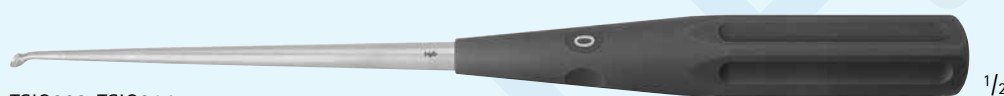
TSI0891-TSI0902



TSI0891-TSI0902

Colored Cervical Curette

Catalog Number	Tip Size (#)	Tip	Color	Length (in.)
TSI0903	000000	REVERSE ANG	RED	10
TSI0904	00000	REVERSE ANG	SILVER	10
TSI0905	0000	REVERSE ANG	PURPLE	10
TSI0906	000	REVERSE ANG	TURQUOISE	10
TSI0907	00	REVERSE ANG	GOLD	10
TSI0908	0	REVERSE ANG	GREEN	10
TSI0909	1	REVERSE ANG	ORANGE	10
TSI0910	2	REVERSE ANG	BLUE	10
TSI0911	3	REVERSE ANG	GRAY	10
TSI0912	4	REVERSE ANG	BLACK	10
TSI0913	5	REVERSE ANG	BLACK	10
TSI0914	6	REVERSE ANG	BLACK	10
TSI0915	000000	ANG 90°	RED	10
TSI0916	00000	ANG 90°	SILVER	10
TSI0917	0000	ANG 90°	PURPLE	10
TSI0918	000	ANG 90°	TURQUOISE	10
TSI0919	00	ANG 90°	GOLD	10
TSI0920	0	ANG 90°	GREEN	10
TSI0921	1	ANG 90°	ORANGE	10
TSI0922	2	ANG 90°	BLUE	10
TSI0923	3	ANG 90°	GRAY	10
TSI0924	4	ANG 90°	BLACK	10
TSI0925	5	ANG 90°	BLACK	10
TSI0926	6	ANG 90°	BLACK	10



TSI0903-TSI0914



TSI0903-TSI0914



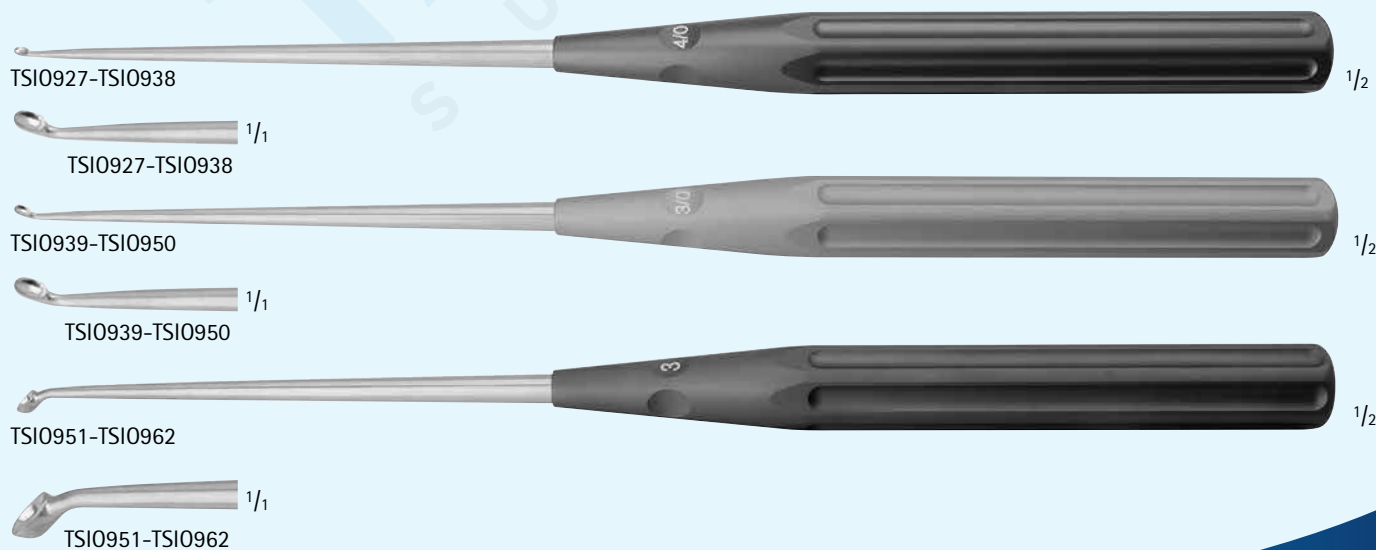
TSI0915-TSI0926



TSI0915-TSI0926

Colored Lumbar Curette

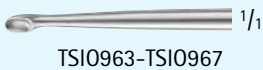
Catalog Number	Tip Size (#)	Tip	Color	Length (in.)
TSI0927	000000	STR	RED	13 3/4
TSI0928	00000	STR	SILVER	13 3/4
TSI0929	0000	STR	PURPLE	13 3/4
TSI0930	000	STR	TURQUOISE	13 3/4
TSI0931	00	STR	GOLD	13 3/4
TSI0932	0	STR	GREEN	13 3/4
TSI0933	1	STR	ORANGE	13 3/4
TSI0934	2	STR	BLUE	13 3/4
TSI0935	3	STR	GRAY	13 3/4
TSI0936	4	STR	BLACK	13 3/4
TSI0937	5	STR	BLACK	13 3/4
TSI0938	6	STR	BLACK	13 3/4
TSI0939	000000	ANG	RED	13 3/4
TSI0940	00000	ANG	SILVER	13 3/4
TSI0941	0000	ANG	PURPLE	13 3/4
TSI0942	000	ANG	TURQUOISE	13 3/4
TSI0943	00	ANG	GOLD	13 3/4
TSI0944	0	ANG	GREEN	13 3/4
TSI0945	1	ANG	ORANGE	13 3/4
TSI0946	2	ANG	BLUE	13 3/4
TSI0947	3	ANG	GRAY	13 3/4
TSI0948	4	ANG	BLACK	13 3/4
TSI0949	5	ANG	BLACK	13 3/4
TSI0950	6	ANG	BLACK	13 3/4
TSI0951	000000	REVERSE ANG	RED	13 3/4
TSI0952	00000	REVERSE ANG	SILVER	13 3/4
TSI0953	0000	REVERSE ANG	PURPLE	13 3/4
TSI0954	000	REVERSE ANG	TURQUOISE	13 3/4
TSI0955	00	REVERSE ANG	GOLD	13 3/4
TSI0956	0	REVERSE ANG	GREEN	13 3/4
TSI0957	1	REVERSE ANG	ORANGE	13 3/4
TSI0958	2	REVERSE ANG	BLUE	13 3/4
TSI0959	3	REVERSE ANG	GRAY	13 3/4
TSI0960	4	REVERSE ANG	BLACK	13 3/4
TSI0961	5	REVERSE ANG	BLACK	13 3/4
TSI0962	6	REVERSE ANG	BLACK	13 3/4





Bayonet Curette

Catalog Number	Tip	Tip Size (#)	Length (in.)
TSI0963	STR	0	9
TSI0964	STR	00	9
TSI0965	STR	000	9
TSI0966	STR	0000	9
TSI0967	STR	00000	9
TSI0968	REVERSE ANG UP	0	9
TSI0969	REVERSE ANG UP	00	9
TSI0970	REVERSE ANG UP	000	9
TSI0971	REVERSE ANG UP	0000	9
TSI0972	REVERSE ANG UP	00000	9
TSI0973	REVERSE ANG DOWN	0	9
TSI0974	REVERSE ANG DOWN	00	9
TSI0975	REVERSE ANG DOWN	000	9
TSI0976	REVERSE ANG DOWN	0000	9
TSI0977	REVERSE ANG DOWN	00000	9



TSI0963-TSI0967



TSI0968-TSI0972



TSI0973-TSI0977



Black Handle Curette

Catalog Number	Tip	Tip Size (#)	Handle	Length (in.)
TSIO978	STR	000	8 1/2	13 1/4
TSIO979	STR	00	8 1/2	13 1/4
TSIO980	STR	0	8 1/2	13 1/4
TSIO981	STR	1	8 1/2	13 1/4
TSIO982	STR	2	8 1/2	13 1/4
TSIO983	STR	3	8 1/2	13 1/4
TSIO984	STR	4	8 1/2	13 1/4
TSIO985	STR	5	8 1/2	13 1/4
TSIO986	STR	6	8 1/2	13 1/4
TSIO987	STR	7	8 1/2	13 1/4
TSIO988	ANG	000	8 1/2	13 1/4
TSIO989	ANG	00	8 1/2	13 1/4
TSIO990	ANG	0	8 1/2	13 1/4
TSIO991	ANG	1	8 1/2	13 1/4
TSIO992	ANG	2	8 1/2	13 1/4
TSIO993	ANG	3	8 1/2	13 1/4
TSIO994	ANG	4	8 1/2	13 1/4
TSIO995	ANG	5	8 1/2	13 1/4
TSIO996	ANG	6	8 1/2	13 1/4
TSIO997	ANG	7	8 1/2	13 1/4
TSIO998	REVERSE ANG	000	8 1/2	13 1/4
TSIO999	REVERSE ANG	00	8 1/2	13 1/4
TSIO1000	REVERSE ANG	0	8 1/2	13 1/4
TSIO1001	REVERSE ANG	1	8 1/2	13 1/4
TSIO1002	REVERSE ANG	2	8 1/2	13 1/4
TSIO1003	REVERSE ANG	3	8 1/2	13 1/4
TSIO1004	REVERSE ANG	4	8 1/2	13 1/4
TSIO1005	REVERSE ANG	5	8 1/2	13 1/4
TSIO1006	REVERSE ANG	6	8 1/2	13 1/4
TSIO1007	REVERSE ANG	7	8 1/2	13 1/4



TSIO978-TSIO987



TSIO988-TSIO997



TSIO998-TSIO1007



XL Black Handled Curette

Catalog Number	Tip	Tip Size (#)	Handle	Length (in.)
TSIO1008	STR	000	9	15
TSIO1009	STR	00	9	15
TSIO1010	STR	0	9	15
TSIO1011	STR	1	9	15
TSIO1012	STR	2	9	15
TSIO1013	STR	3	9	15
TSIO1014	STR	4	9	15
TSIO1015	STR	5	9	15
TSIO1016	STR	6	9	15
TSIO1017	STR	7	9	15
TSIO1018	ANG	000	9	15
TSIO1019	ANG	00	0	15
TSIO1020	ANG	0	0	15
TSIO1021	ANG	1	9	15
TSIO1022	ANG	2	9	15
TSIO1023	ANG	3	9	15
TSIO1024	ANG	4	9	15
TSIO1025	ANG	5	9	15
TSIO1026	ANG	6	9	15
TSIO1027	ANG	7	9	15
TSIO1028	REVERSE ANG	000	9	15
TSIO1029	REVERSE ANG	00	9	15
TSIO1030	REVERSE ANG	0	9	15
TSIO1031	REVERSE ANG	1	9	15
TSIO1032	REVERSE ANG	2	9	15
TSIO1033	REVERSE ANG	3	9	15
TSIO1034	REVERSE ANG	4	9	15
TSIO1035	REVERSE ANG	5	9	15
TSIO1036	REVERSE ANG	6	9	15
TSIO1037	REVERSE ANG	7	9	15



TSIO1008-TSIO1017



TSIO1018-TSIO1027

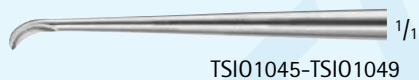
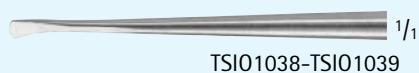


TSIO1028-TSIO1037



Micro Profile Instruments

Catalog Number	Description	Tip Size (#)	Tip	Length (in.)
TSIO1038	DISSECTOR	3 MM	STR	10 1/4
TSIO1039	DISSECTOR	5 MM	STR	10 1/4
TSIO1040	CURETTE	1	ANG	10 1/4
TSIO1041	CURETTE	2	ANG	10 1/4
TSIO1042	CURETTE	3	ANG	10 1/4
TSIO1043	CURETTE	4	ANG	10 1/4
TSIO1044	CURETTE	5	ANG	10 1/4
TSIO1045	CURETTE	1	REV-ANG	10 1/4
TSIO1046	CURETTE	2	REV-ANG	10 1/4
TSIO1047	CURETTE	3	REV-ANG	10 1/4
TSIO1048	CURETTE	4	REV-ANG	10 1/4
TSIO1049	CURETTE	5	REV-ANG	10 1/4

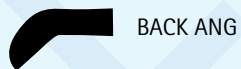




Tip Size 1:1						
Tip Size (#)	0000	000	00	0	1	2



BACK STR



BACK ANG



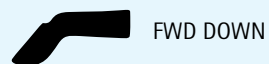
BACK DOWN



FWD STR



FWD ANG



FWD DOWN



Microdiscectomy Cervical Instruments

Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO1050	COMPLETE SET (Includes One Each of All Items Listed)		
TSIO1051	0	FWD STR	8 1/2
TSIO1052	00	FWD STR	8 1/2
TSIO1053	000	FWD STR	8 1/2
TSIO1054	0000	FWD STR	8 1/2
TSIO1055	Bone Cutter	FWD STR	8 1/2
TSIO1056	0	FWD ANG	8 1/2
TSIO1057	00	FWD ANG	8 1/2
TSIO1058	000	FWD ANG	8 1/2
TSIO1059	0000	FWD ANG	8 1/2
TSIO1060	Bone Cutter	FWD ANG	8 1/2
TSIO1061	0	BACK STR	8 1/2
TSIO1062	00	BACK STR	8 1/2
TSIO1063	000	BACK STR	8 1/2
TSIO1064	0000	BACK STR	8 1/2
TSIO1065	Bone Cutter	BACK STR	8 1/2
TSIO1066	0	BACK ANG	8 1/2
TSIO1067	00	BACK ANG	8 1/2
TSIO1068	000	BACK ANG	8 1/2
TSIO1069	0000	BACK ANG	8 1/2
TSIO1070	Bone Cutter	BACK ANG	8 1/2
TSIO1071		MICRO NERVE HOOK	8 1/2
TSIO1072		ULTRA MICRO NERVE HOOK	8 1/2
TSIO1073		BONE WAXER	8 1/2
TSIO1074	Case - 12 Instruments (Set includes 2 cases)		



BACK STR



BACK ANG



BACK DOWN



FWD STR



FWD ANG



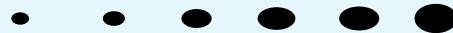
FWD DOWN

Microdiscectomy Cervical Long Instruments

Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO1075	COMPLETE SET (Includes One Each of All Items Listed)		
TSIO1076	0	FWD STR	9 1/2
TSIO1077	00	FWD STR	9 1/2
TSIO1078	000	FWD STR	9 1/2
TSIO1079	0000	FWD STR	9 1/2
TSIO1080	Bone Cutter	FWD STR	9 1/2
TSIO10801	0	FWD ANG	9 1/2
TSIO1082	00	FWD ANG	9 1/2
TSIO1083	000	FWD ANG	9 1/2
TSIO1084	0000	FWD ANG	9 1/2
TSIO1085	Bone Cutter	FWD ANG	9 1/2
TSIO1086	0	BACK STR	9 1/2
TSIO1087	00	BACK STR	9 1/2
TSIO1088	000	BACK STR	9 1/2
TSIO1089	0000	BACK STR	9 1/2
TSIO1090	Bone Cutter	BACK STR	9 1/2
TSIO1091	0	BACK ANG	9 1/2
TSIO1092	00	BACK ANG	9 1/2
TSIO1093	000	BACK ANG	9 1/2
TSIO1094	0000	BACK ANG	9 1/2
TSIO1095	Bone Cutter	BACK ANG	9 1/2
TSIO1096		NERVE HOOK	9 1/2
TSIO1097		ULTRA MICRO NERVE HOOK	9 1/2
TSIO1098			9 1/2
TSIO1099	Case - 12 Instruments (Set includes 2 cases)		



Tip Size 1:1

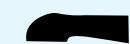


Tip Size (#)

0000 000 00 0 1 2

Microdiscectomy Lumbar Instruments

Catalog Number	Tip Size (#)	Tip	Length (in.)
TSIO1100	COMPLETE SET (Includes One Each of All Items Listed)		
TSIO1101	0	FWD STR	9 1/2
TSIO1102	1	FWD STR	9 1/2
TSIO1103	2	FWD STR	9 1/2
TSIO1104	0	FWD ANG	9 1/2
TSIO1105	1	FWD ANG	9 1/2
TSIO1106	2	FWD ANG	9 1/2
TSIO1107	0	FWD DOWN	9 1/2
TSIO1108	1	FWD DOWN	9 1/2
TSIO1109	2	FWD DOWN	9 1/2
TSIO1110	0	BACK STR	9 1/2
TSIO1111	1	BACK STR	9 1/2
TSIO1112	2	BACK STR	9 1/2
TSIO1113	0	BACK ANG	9 1/2
TSIO1114	1	BACK ANG	9 1/2
TSIO1115	2	BACK ANG	9 1/2
TSIO1116	0	BACK DOWN	9 1/2
TSIO1117	1	BACK DOWN	9 1/2
TSIO1118	2	BACK DOWN	9 1/2
TSIO1119		#1 PENFIELD	9 1/2
TSIO1120		#2 PENFIELD	9 1/2
TSIO1121		NERVE HOOK	9 1/2
TSIO1122		#4 PENFIELD	9 1/2
TSIO1123		BONE WAXER	9 1/2
TSIO1124		SPINE PROBE	9 1/2
TSIO1125	Case - 12 Instruments (Set includes 2 cases)		



BACK STR



BACK ANG



BACK DOWN



FWD STR



FWD ANG

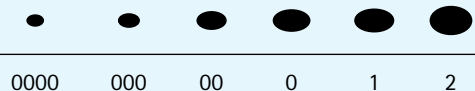


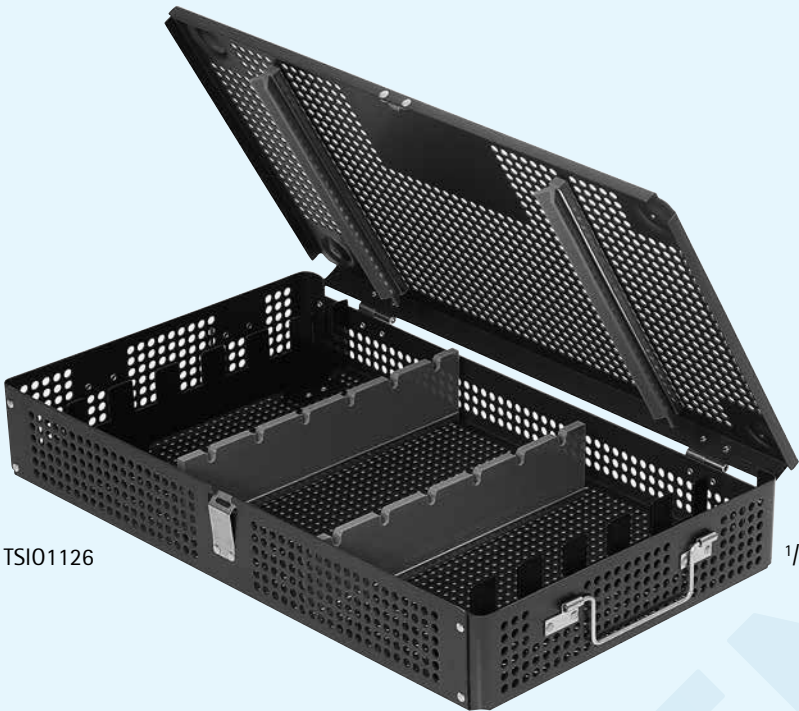
FWD DOWN



Tip Size 1:1

Tip Size (#)





Storage Case for Microdiscectomy
Instruments

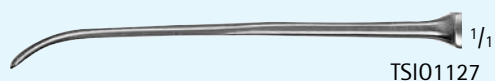
Catalog Number
TSIO1126



TSIO1127-TSIO1129

LEMMON Intima Dissector

Catalog Number	Tip	Length (in.)
TSIO1127	SLIGHT-CVD	6 1/2
TSIO1128	CVD	6 1/2
TSIO1129	HEAVY-CVD	6 1/2



TSIO1127



TSIO1128



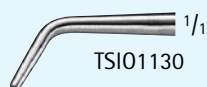
TSIO1129



TSIO1130

BUNNELL Dissecting Probe

Catalog Number	Tip	Length (in.)
TSIO1130	ANG	5 1/2



TSIO1130



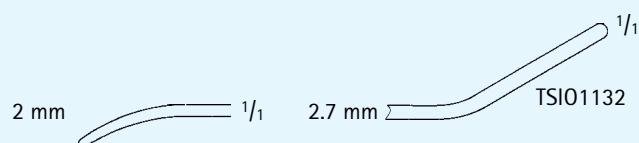
TSIO1131-TSIO1132

WATSON-CHEYNE Dissector, Double Ended

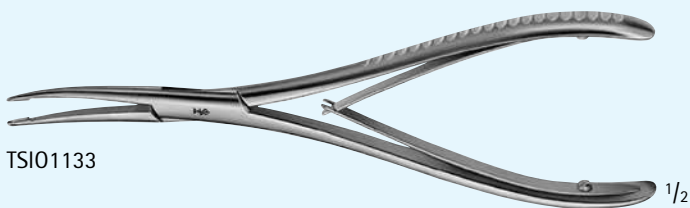
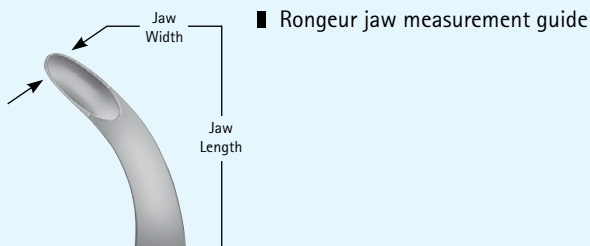
Catalog Number	Blade Size (mm)	Length (in.)
TSIO1131	2 / 2.5	5 1/8
TSIO1132	2 / 2.7	7 1/2



TSIO1131



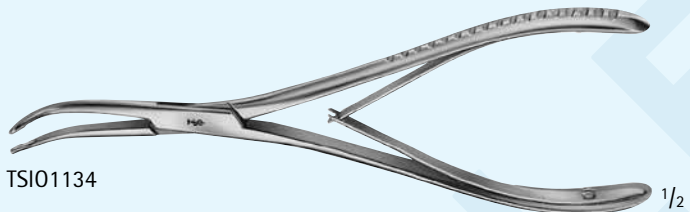
TSIO1132



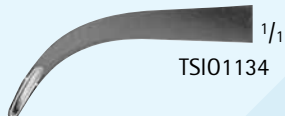
TSI01133



TSI01133



TSI01134



TSI01134

STELLBRINK Synovectomy Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01133	2.0 x 39.5	SLIGHT-CVD	6 7/8
TSI01134	2 x 33	CVD	6 3/4



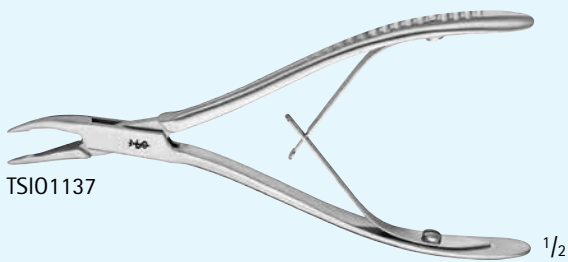
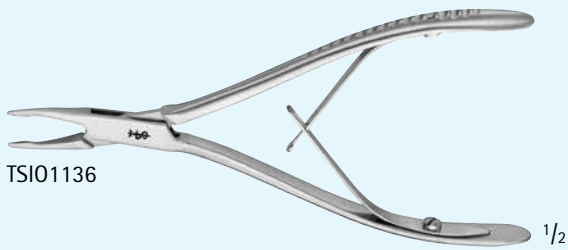
TSI01135



TSI01135

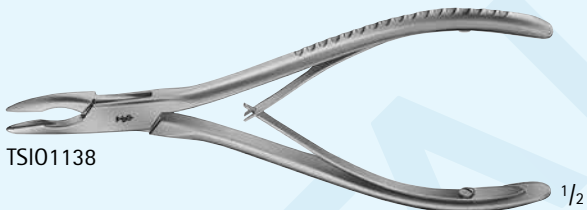
Synovectomy Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01135	1.8 x 24	CVD	5 1/8



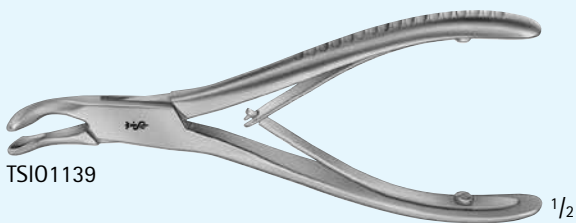
FRIEDMANN Micro Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1136	1.3 x 19	STR	5 1/2
TSIO1137	1.3 x 20	CVD	5 1/2



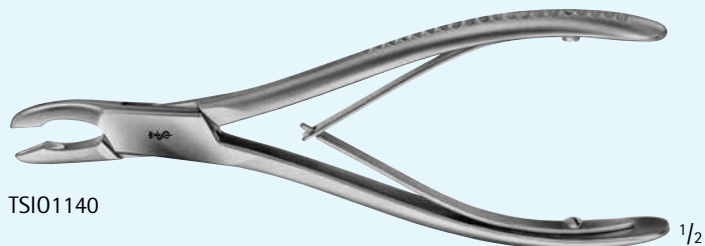
LUER-FRIEDMANN Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1138	2.2 x 22	CVD	5 3/4



Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1139	3.8 x 19	CVD	5 1/2



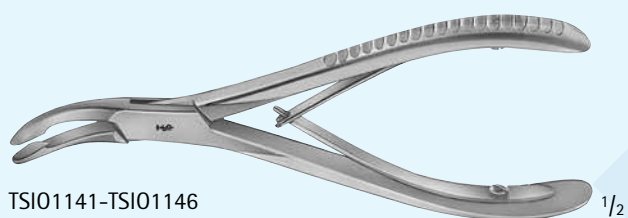
TSIO1140



TSIO1140

HAKANSSON Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1140	4.5 x 24	CVD	6 3/4



TSIO1141-TSIO1146



TSIO1141



TSIO1142



TSIO1143



TSIO1144



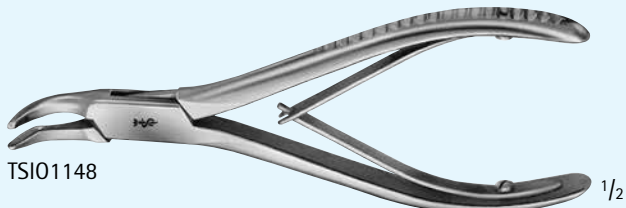
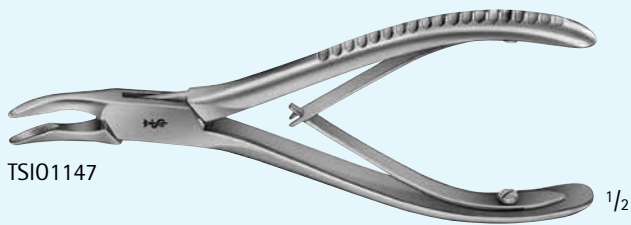
TSIO1145



TSIO1146

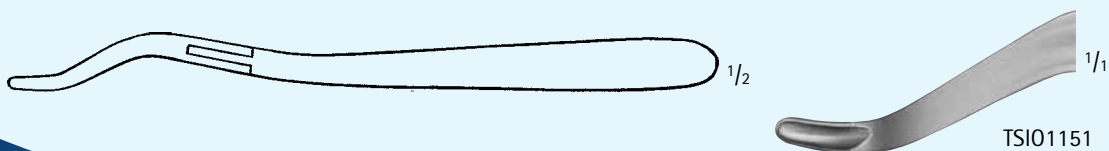
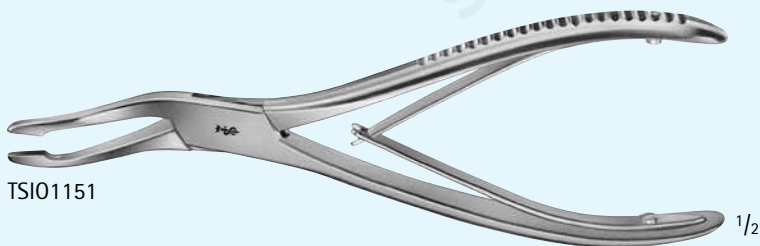
LUER Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1141	17.5 x 25	STR	6 7/8
TSIO1142	29.5 x 33	STR	7
TSIO1143	34.2 x 20	CVD	6
TSIO1144	44.2 x 26	STRONG CVD	6 1/8
TSIO1145	7.5 x 24.5	CVD	6 7/8
TSIO1146	9.0 x 30	CVD	7



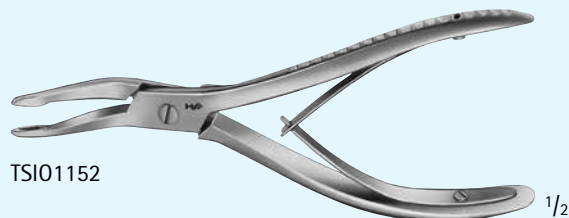
BLUMENTHAL Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01147	3.5 x 25	30° CVD	6 1/8
TSI01148	3.5 x 22	45° CVD	6



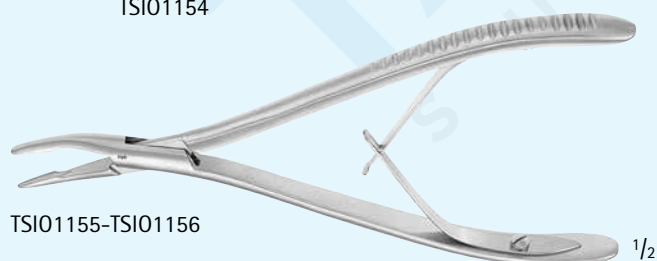
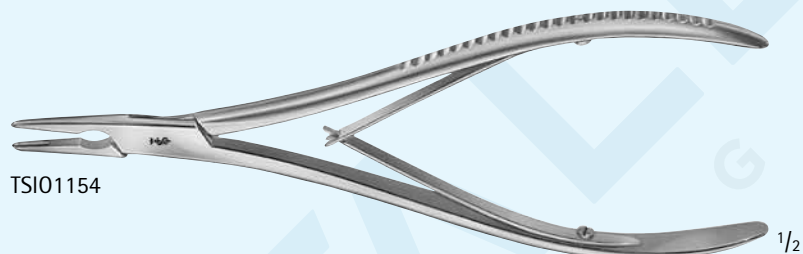
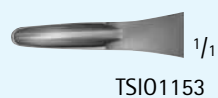
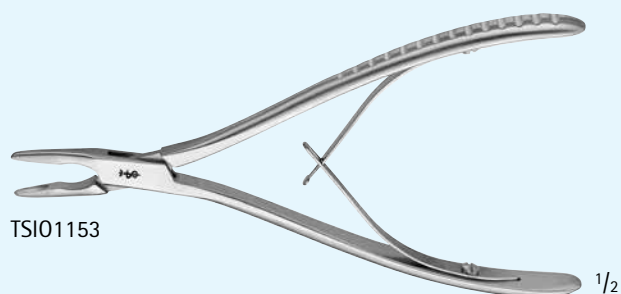
JANSEN Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01149	4.2 x 35	STR	6 7/8
TSI01150	4.5 x 30	CVD	6 7/8
TSI01151	3.8 x 37	ANG	7 1/2



ALEXANDER Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1152	3.2 x 27	ANG	5 1/2

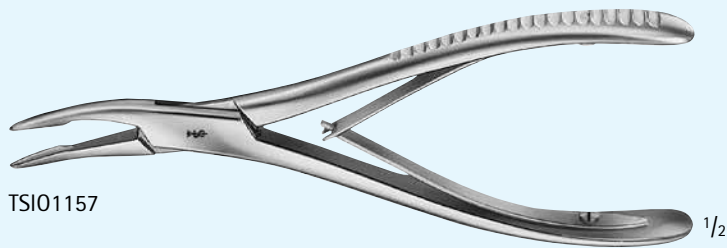


LEMPERT Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1153	2.0 x 23	DEL, STR	6 1/2
TSIO1154	2.2 x 27	STR	7 7/8
TSIO1155	2.5 x 30	CVD	6 1/4
TSIO1156	2.2 x 27	CVD	7 7/8

BEYER Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1157	3.2 x 32	CVD	7



TSIO1157

1/2

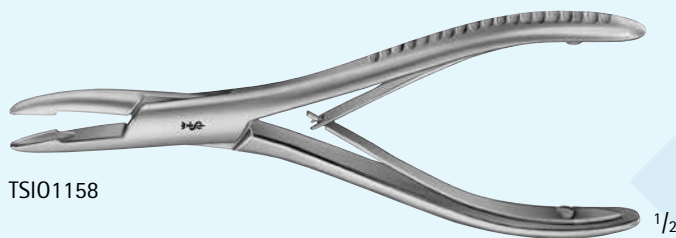


TSIO1157

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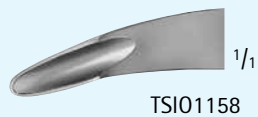
MEAD Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1158	3.5 x 30	CVD	6 1/2



TSIO1158

1/2



TSIO1158

1/1

BANE-HARTMANN Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1159	4.0 x 32	CVD	6 7/8



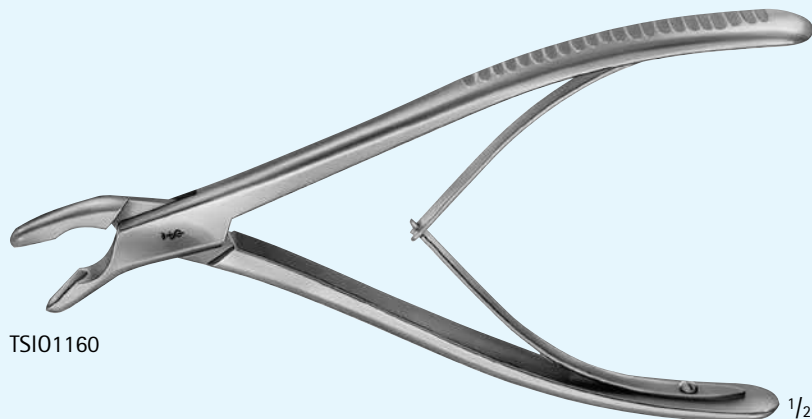
TSIO1159

1/2



TSIO1159

1/1

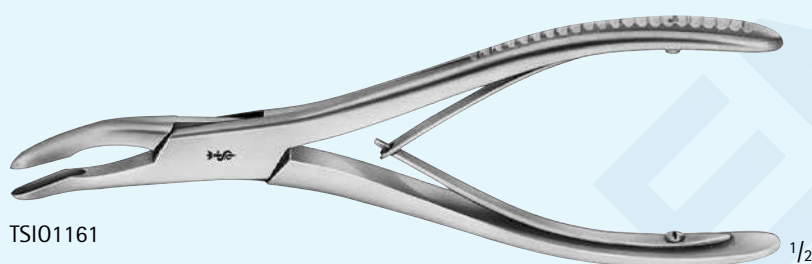


TSIO1160

TSIO1160

TROTTER Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1160	6.5 x 24	CVD	8



TSIO1161

TSIO1161

OLIVECRONA Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1161	5.0 x 36.5	CVD	8

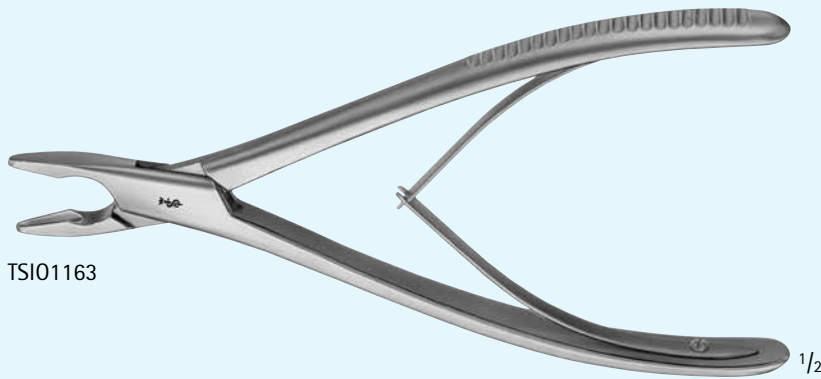


TSIO1162

TSIO1162

GULEKE Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1162	6.5 x 27	CVD	8



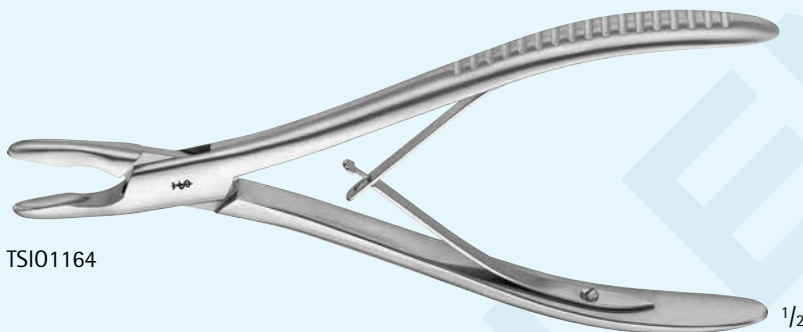
TSIO1163



TSIO1163

PENNYBACKER Bone Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1163	4.0 x 26	STR	8



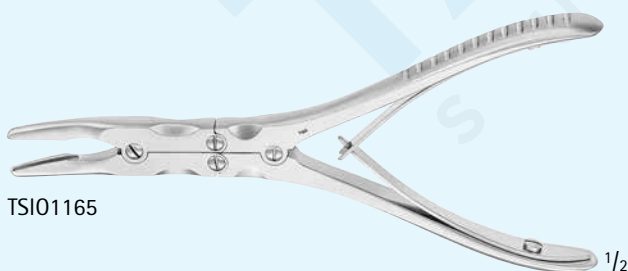
TSIO1164



TSIO1164

ADSON Cranial Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1164	21.0 x 31.5	STR	7 7/8



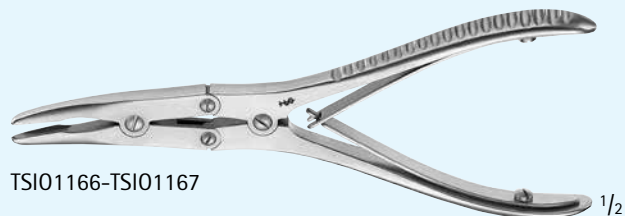
TSIO1165



TSIO1165

KLEINERT-KUTZ Rongeur, Double Action

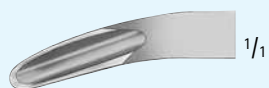
Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1165	3.0 x 15.0	SLIGHT, CVD	6 1/8



TSIO1166-TSIO1167



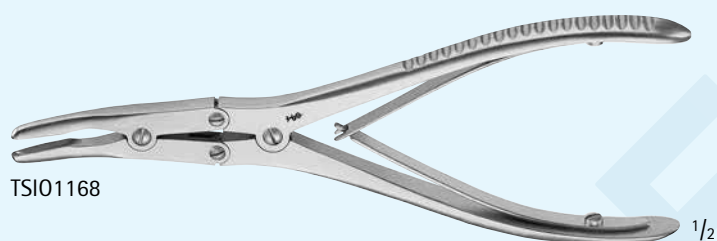
TSIO1166



TSIO1167

BOEHLER Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Jaw End	Length (in.)
TSIO1166	3.0 x 27.0	CVD	NARR	6 1/8
TSIO1167	73.5 x 30.0	CVD	WIDE	6 1/8



TSIO1168



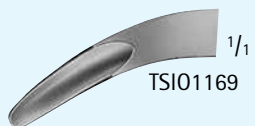
TSIO1168

BEYER Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1168	4.0 x 30.0	CVD	7



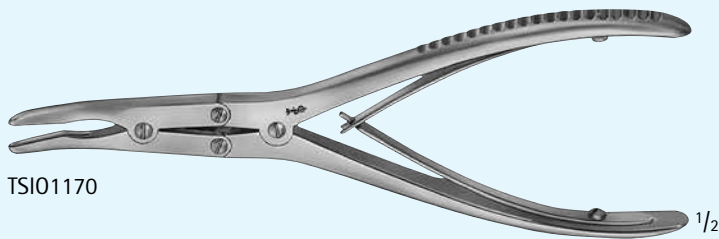
TSIO1169



TSIO1169

MAYFIELD Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1169	3.5 x 23	CVD	6 7/8



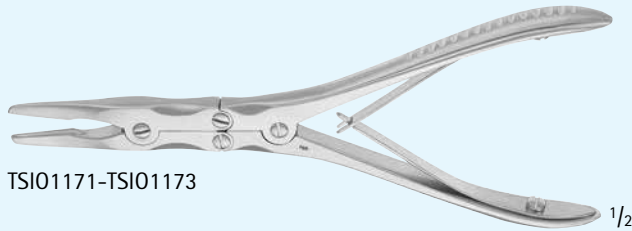
TSIO1170



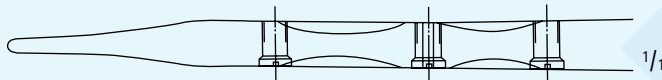
TSIO1170

**ZAUFAL-JANSEN Bone Rongeur,
Double Action**

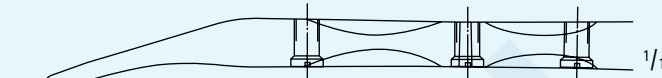
Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1170	4.5 x 29.0	CVD	7



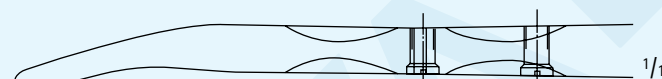
TSIO1171-TSIO1173



TSIO1171



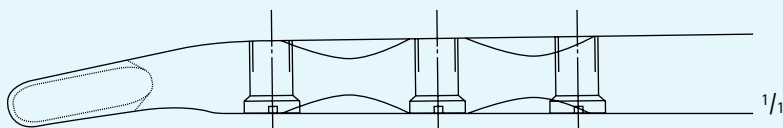
TSIO1172



MG058R



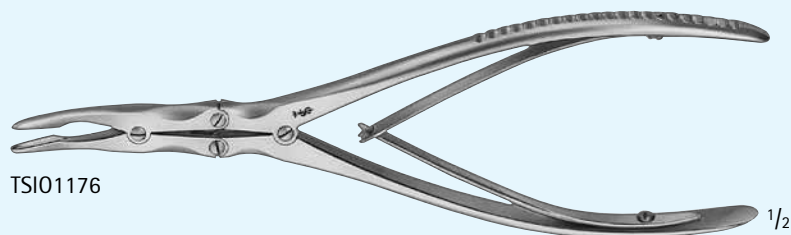
TSIO1174, TSIO1175



TSIO1174, TSIO1175

RUSKIN Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1171	2	STR, MINI	6 1/4
TSIO1172	2	CVD, MINI	6 1/4
TSIO1173	3	CVD, MINI	6 1/4
TSIO1174	5	CVD	7 1/2
TSIO1175	6	CVD	7 1/4



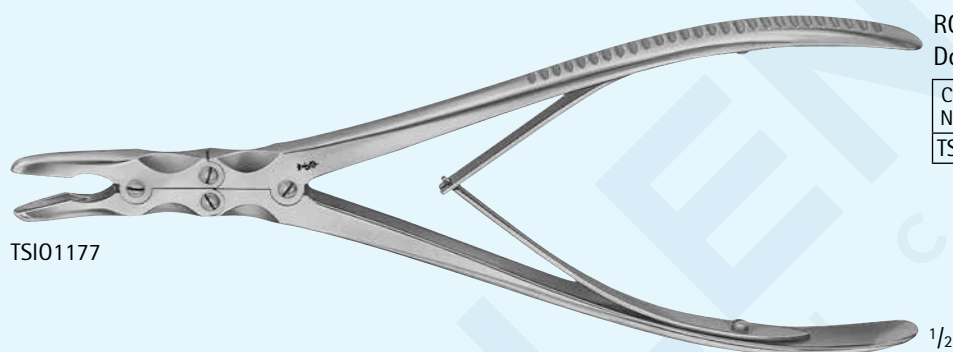
TSI01176



TSI01176

MARQUARDT Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01176	3.5 x 15.5	CVD	7 7/8



TSI01177



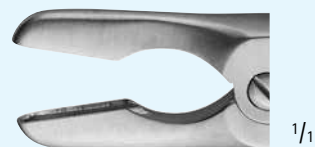
TSI01177

ROETTGEN-RUSKIN Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01177	6.3 x 30	CVD	9 1/2



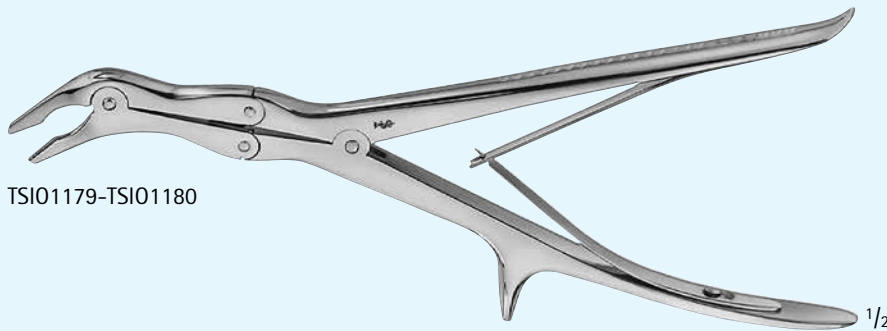
TSI01178



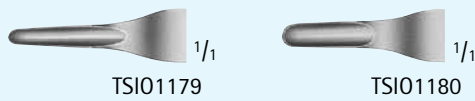
TSI01178

SMITH-PETERSON Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSI01178	3	STR	9 1/2

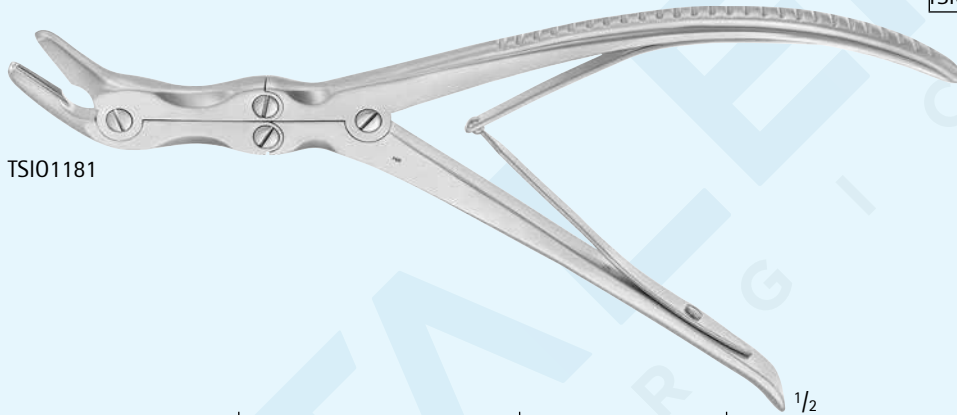


TSIO1179-TSIO1180

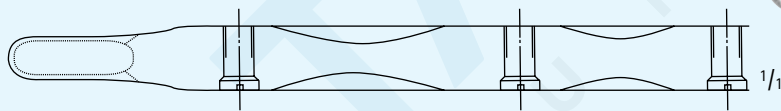


ECHLIN Bone Rongeur, Double Action, Duckbill

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1179	2 x 10	ANG	9
TSIO1180	3 x 10	ANG	9



TSIO1181



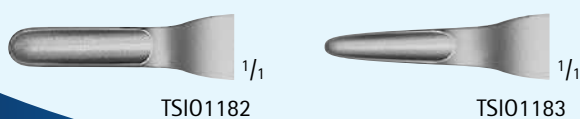
TSIO1181

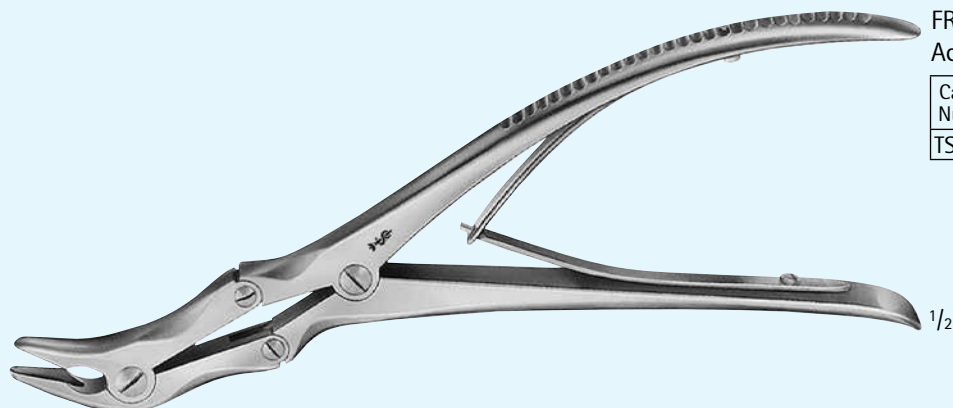
LEKSELL Bone Rongeur, Double Action, Duckbill

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1181	5	FULL CVD	9
TSIO1182	5 x 16	ANG	9 5/8
TSIO1183	3 x 16	ANG	9 5/8



TSIO1182-TSIO1183





FRYKHOLM Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1184	4.5 x 25	ANG	9 1/2

TSIO1184



TSIO1184



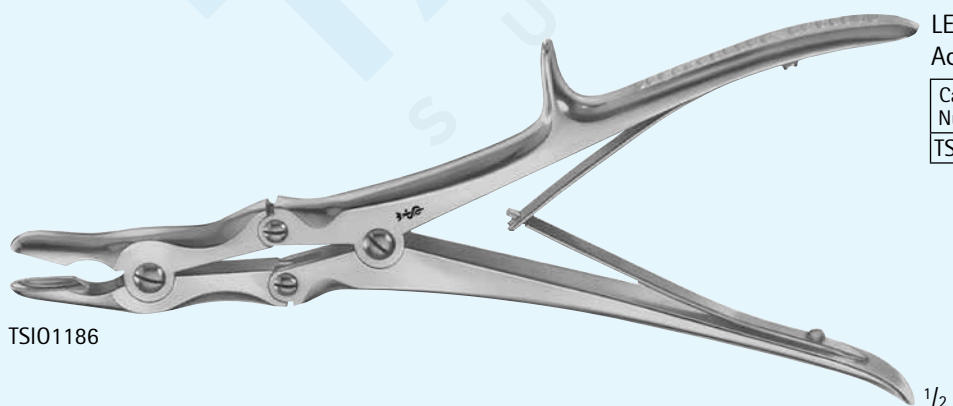
STILLE Bone Rongeur, Double Action, Duckbill

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1185	7.0 x 25	ANG	9

TSIO1185



TSIO1185



LEKSELL-STILLE Bone Rongeur, Double Action, Duckbill

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1186	7.5 x 29.5	ANG	9 1/2

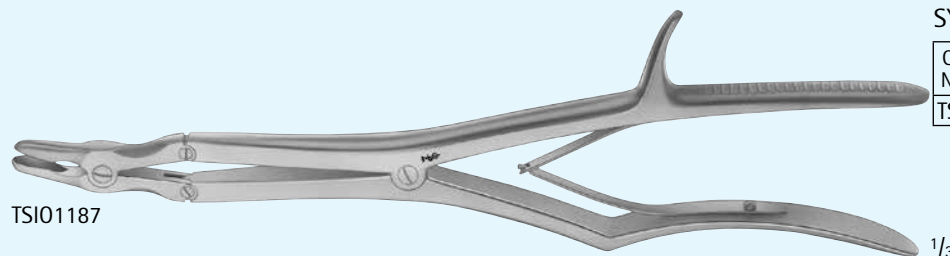
TSIO1186



TSIO1186

SYPERT Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1187	8.0 x 35.0	ANG	14 1/4



TSIO1187

1/3

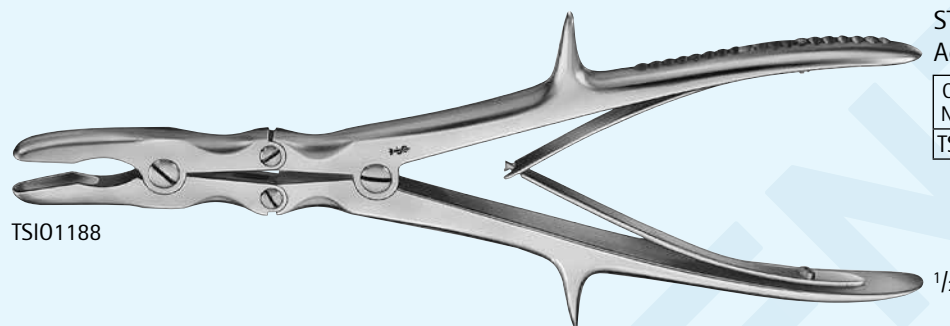


1/1

TSIO1187

STILLE-RUSKIN Bone Rongeur, Double Action

Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1188	8.0 x 34.0	CVD	9 1/2



TSIO1188

1/2



1/1

TSIO1188

SAUERBRUCH-CORYLLOS Rongeur, Double Action

Catalog Number	Length (in.)
TSIO1189	12 1/4
TSIO1190	12 1/4



TSIO1189-TSIO1190

1/3



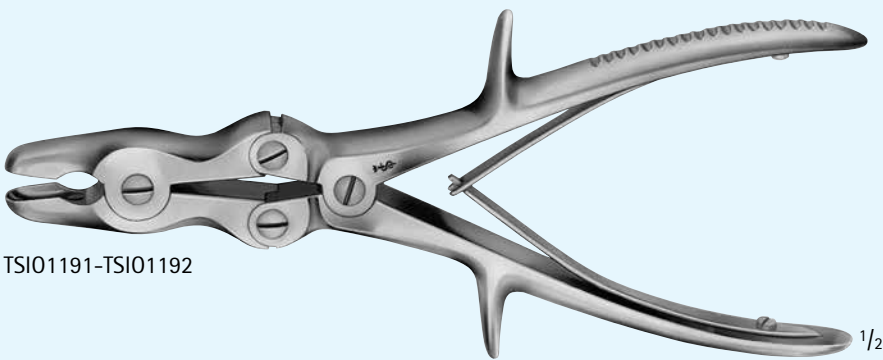
1/1

TSIO1189



1/1

TSIO1190



TSIO1191-TSIO1192

LUER-STILLE Bone Rongeur, Double Action

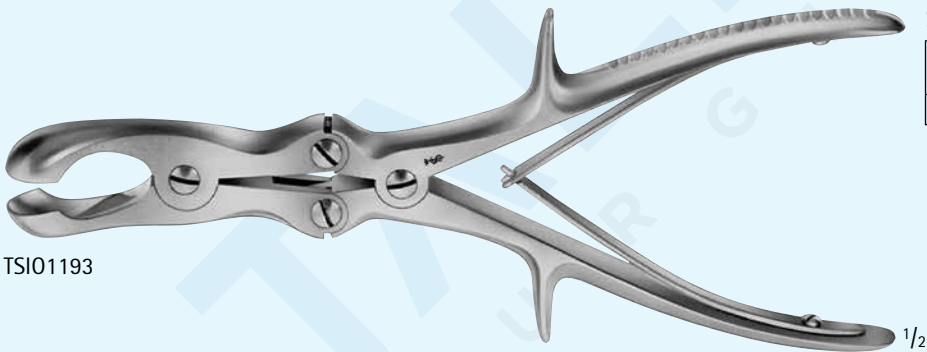
Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1191	10.5 x 27.5	STR	8 7/8
TSIO1192	10 x 26.5	CVD	8 7/8



TSIO1191



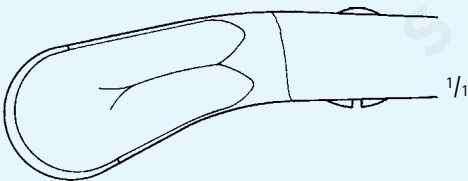
TSIO1192



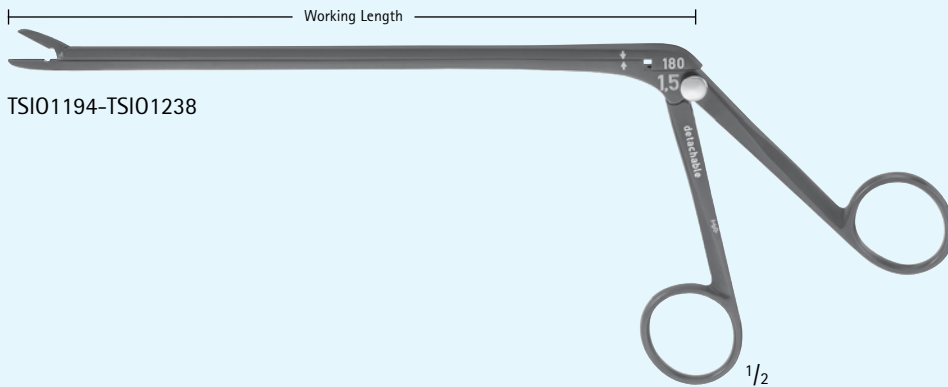
TSIO1193

SEMB Bone Rongeur, Double Action

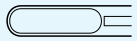
Catalog Number	Jaw Size (mm)	Jaw	Length (in.)
TSIO1193	16.5 x 38.5	CVD	9 1/2



TSIO1193

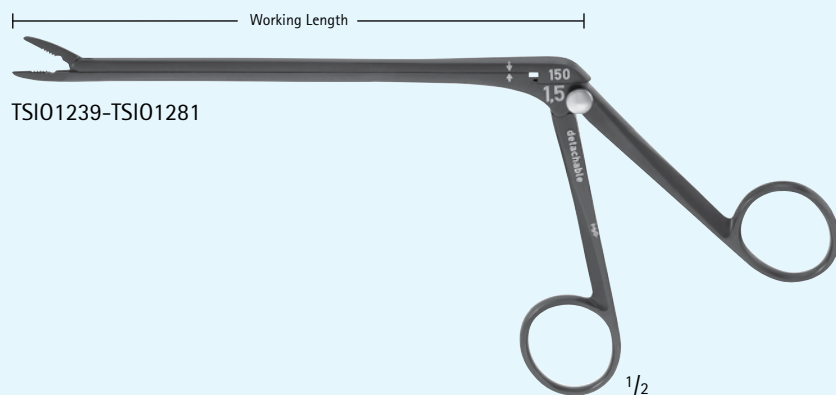


TSI01194-TSI01238



Noir Detachable Rongeurs

Working Length (in.)	Jaw	Jaw	1.5 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm
6		STR	TSI01195	TSI01196	TSI01197	TSI01198	TSI01199
6		UP	TSI01200	TSI01201	TSI01202	TSI01204	TSI01205
7		STR	TSI01206	TSI01207	TSI01208	TSI01209	TSI01210
7		UP	TSI01211	TSI01212	TSI01213	TSI01214	TSI01215
7 7/8		STR	TSI01216	TSI01217	TSI01218	TSI01219	TSI01220
7 7/8		UP	TSI01221	TSI01222	TSI01223	TSI01224	TSI01225
9		STR	TSI01226	TSI01227	TSI01228	TSI01229	TSI01230
9		UP	TSI01231	TSI01232	TSI01233	TSI01234	TSI01235
11		STR	-	-	TSI01236	TSI01237	TSI01238



TSIO1239-TSIO1281



straight

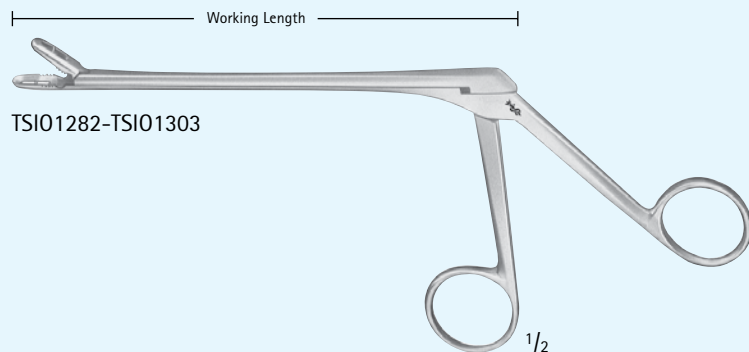


up



Noir Detachable Rongeur

Working Length (in.)	Jaw	Jaw	1.5 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm
6		STR	TSIO1239	TSIO1240	TSIO1241	TSIO1242	TSIO1243
7		UP	TSIO1244	TSIO1245	TSIO1246	TSIO1247	TSIO1248
7		STR	TSIO1249	TSIO1250	TSIO1251	TSIO1252	TSIO1253
7		UP	TSIO1254	TSIO1255	TSIO1256	TSIO1257	TSIO1258
7 7/8		STR	TSIO1259	TSIO1260	TSIO1261	TSIO1262	TSIO1263
7 7/8		UP	TSIO1264	TSIO1265	TSIO1266	TSIO1267	TSIO1268
9		STR	TSIO1269	TSIO1270	TSIO1271	TSIO1272	TSIO1273
9		UP	TSIO1274	TSIO1275	TSIO1276	TSIO1277	TSIO1278
11		STR	-	-	TSIO1279	TSIO1280	TSIO1281



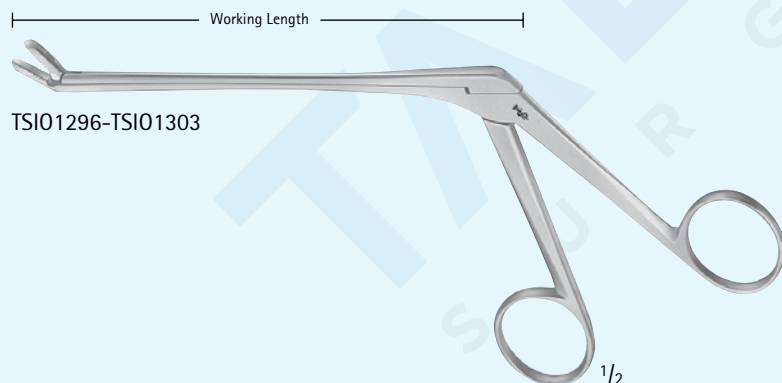
1/1
TSIO1282, TSIO1284, TSIO1285

1/1
TSIO1286, TSIO1287, TSIO1288

1/1
TSIO1289, TSIO1290, TSIO1291

1/1
TSIO1292, TSIO1293

1/1
TSIO1294, TSIO1295



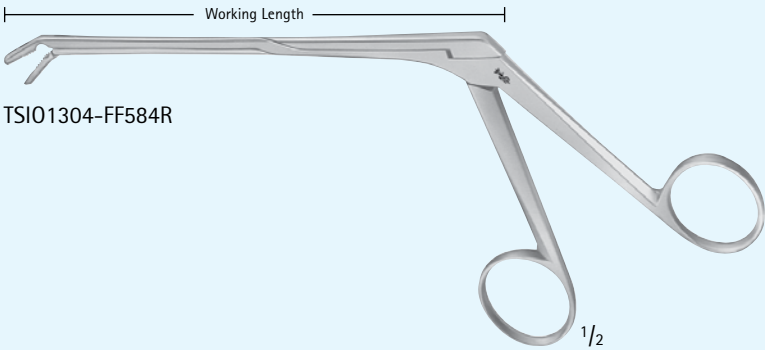
1/1
TSIO1296, TSIO1297, TSIO1298

1/1
TSIO1299, TSIO1300, TSIO1301

1/1
TSIO1302, TSIO1303

CASPAR Rongeur W/ Teeth

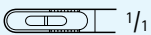
Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1282	2 x 12	STR	5 1/2
TSIO1284	2 x 12	STR	6 1/4
TSIO1285	2 x 12	STR	7 1/4
TSIO1286	3 x 12	STR	5 1/2
TSIO1287	3 x 12	STR	6 1/4
TSIO1288	3 x 12	STR	7 1/4
TSIO1289	4 x 14	STR	5 1/2
TSIO1290	4 x 14	STR	6 1/4
TSIO1291	4 x 14	STR	7 1/4
TSIO1292	5 x 14	STR	6 1/4
TSIO1293	5 x 14	STR	7 1/4
TSIO1294	6 x 16	STR	6 1/4
TSIO1295	6 x 16	STR	7 1/4
TSIO1296	3 x 12	UP	5 1/2
TSIO1297	3 x 12	UP	6 1/4
TSIO1298	3 x 12	UP	7 1/4
TSIO1299	4 x 14	UP	5 1/2
TSIO1300	4 x 14	UP	6 1/4
TSIO1301	4 x 14	UP	7 1/4
TSIO1302	5 x 14	UP	6 1/4
TSIO1303	5 x 14	UP	7 1/4



TSIO1304-FF584R

CASPAR Rongeur W/ Teeth (continued)

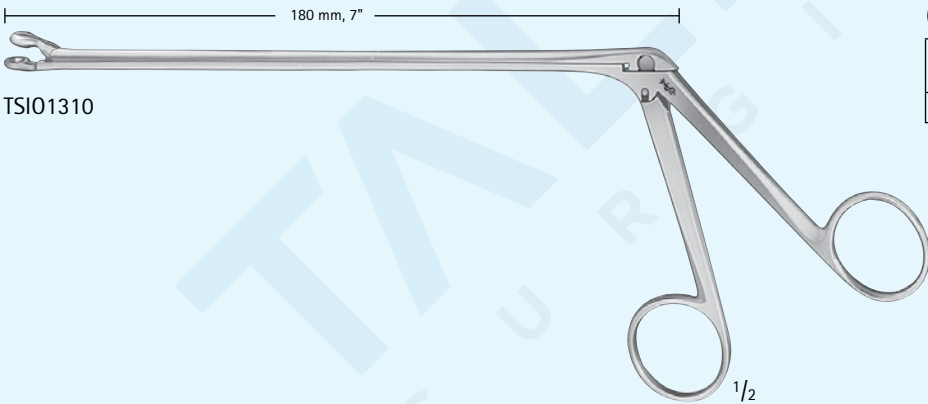
Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1304	3 x 12	DOWN	5 1/2
TSIO1305	3 x 12	DOWN	6 1/4
TSIO1306	3 x 12	DOWN	7 1/4
TSIO1307	4 x 14	DOWN	5 1/2
TSIO1308	4 x 14	DOWN	6 1/4
TSIO1309	4 x 14	DOWN	7 1/4



TSIO1304, TSIO1305, TSIO1306



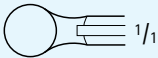
TSIO1307, TSIO1308, TSIO1309



TSIO1310

OLDBERG Rongeur

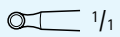
Catalog Number	Diameter (mm)	Working Length (in.)
TSIO1310	7.0	7



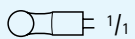
TSIO1310

195 mm, 7 1/2"

TSIO1311-TSIO1312



TSIO1311



TSIO1312

YASARGIL Rongeur

Catalog Number	Diameter (mm)	Working Length (in.)
TSIO1311	2.2	7 1/2
TSIO1312	3.5	7 1/2

140 mm, 5 1/2"

TSIO1313



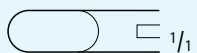
TSIO1313

BECK Rongeur

Catalog Number	Jaw Size (mm)	Working Length (in.)
TSIO1313	2 x 10	5 1/8

210 mm, 8 1/4"

TSIO1314



TSIO1314

WAGNER Rongeur

Catalog Number	Jaw Size (mm)	Working Length (in.)
TSIO1314	5.5	8 1/4


CUSHING Rongeur

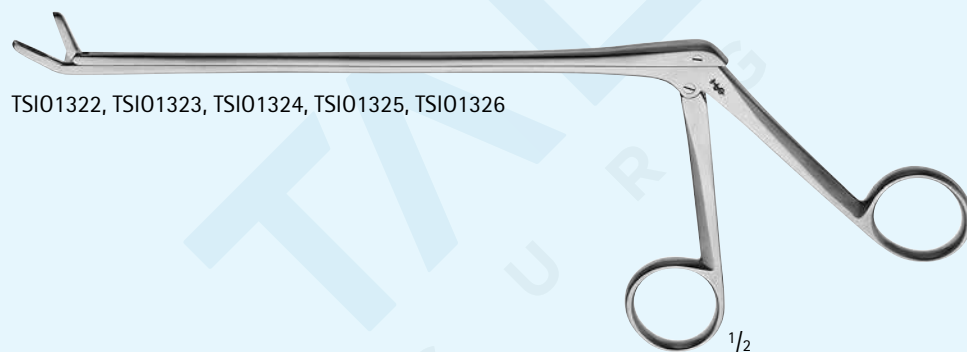
Catalog Number	Jaw Size (mm)	Jaw	Style	Working Length (in.)
TSIO1315	1.5 x 10	STR	STANDARD	7
TSIO1316	1.5 x 10	STR	DELICATE	9
TSIO1317	2 x 10	STR	-	7
TSIO1318	2 x 10	STR	STANDARD	9
TSIO1319	2 x 10	STR	STANDARD	11
TSIO1320	2 x 10	STR	STANDARD	12
TSIO1331	1.5 x 10	UP	STANDARD	7
TSIO1322	2 x 10	UP	-	7
TSIO1323	1.5 x 10	UP	DELICATE	9
TSIO1324	2 x 10	UP	STANDARD	9
TSIO1325	2 x 10	UP	STANDARD	11
TSIO1326	2 x 10	UP	STANDARD	12
TSIO1327	1.5 x 10	DOWN	STANDARD	7
TSIO1328	1.5 x 10	DOWN	DELICATE	9
TSIO1329	2 x 10	DOWN	-	7
TSIO1330	2 x 10	DOWN	STANDARD	9
TSIO1331	2 x 10	DOWN	STANDARD	11
TSIO1332	2 x 10	DOWN	STANDARD	12

180 mm, 7"

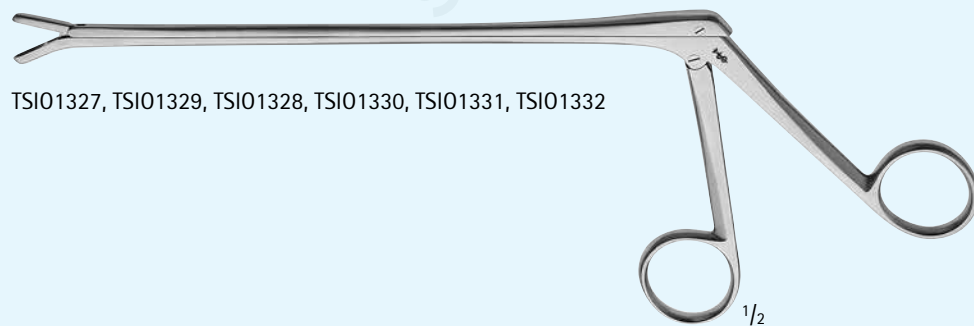
TSIO1317, TSIO1316, TSIO1318, TSIO1319, TSIO1331



TSIO1322, TSIO1323, TSIO1324, TSIO1325, TSIO1326



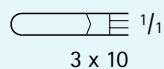
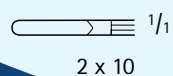
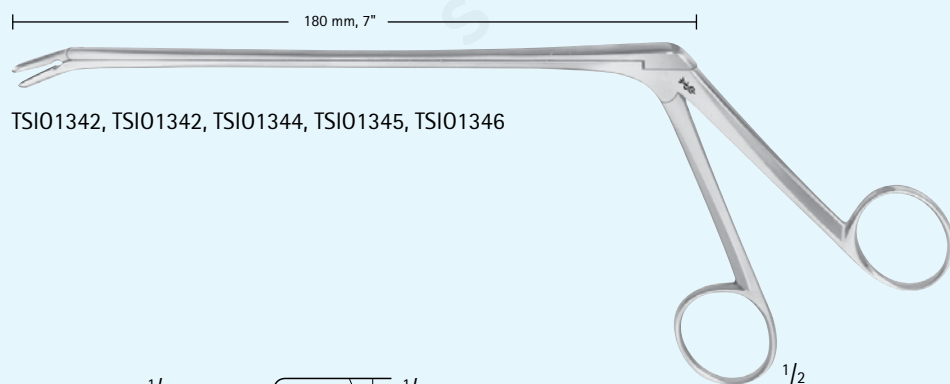
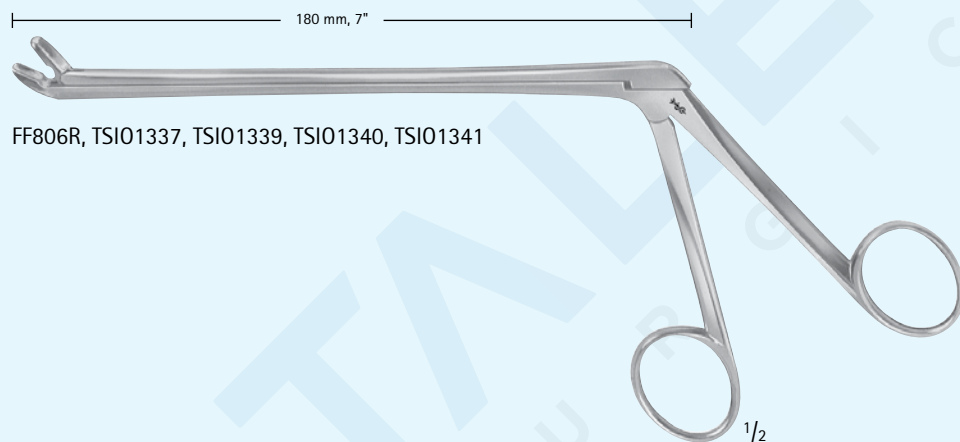
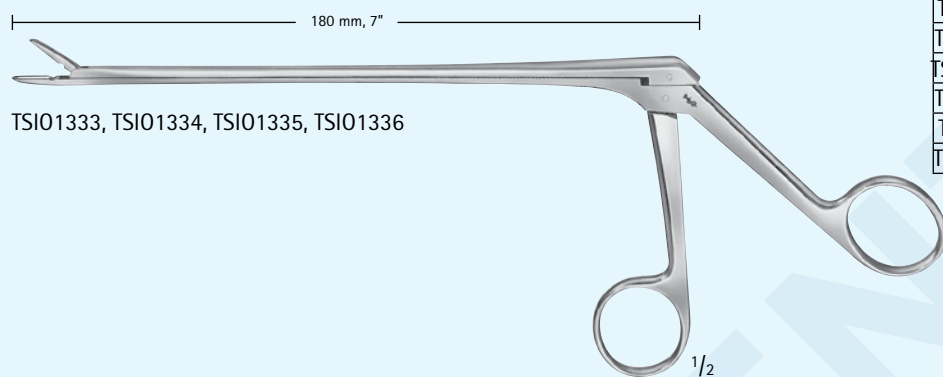
TSIO1327, TSIO1329, TSIO1328, TSIO1330, TSIO1331, TSIO1332


 1/1
1.5 x 10

 1/1
2 x 10

LOVE-GRUENWALD Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1333	3 x 10	STR	7
TSIO1334	3 x 10	STR	9
TSIO1335	3 x 10	STR	11
TSIO1336	3 x 10	STR	12
TSIO1337	2 x 10	UP	5
TSIO1338	3 x 10	UP	7
TSIO1339	3 x 10	UP	9
TSIO1340	3 x 10	UP	11
TSIO1341	3 x 10	UP	12
TSIO1342	2 x 10	DOWN	5
TSIO1343	3 x 10	DOWN	7
TSIO1344	3 x 10	DOWN	9
TSIO1345	3 x 10	DOWN	11
TSIO1346	3 x 10	DOWN	12





SPURLING Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1347	4 x 10	STR	7
TSIO1348	4 x 10	STR	9
TSIO1349	4 x 10	STR	11
TSIO1350	4 x 10	STR	12
TSIO1351	4 x 10	UP	7
TSIO1352	4 x 10	UP	9
TSIO1353	4 x 10	UP	11
TSIO1354	4 x 10	UP	12
TSIO1355	4 x 10	DOWN	7
TSIO1356	4 x 10	DOWN	9
TSIO1357	4 x 10	DOWN	11
TSIO1358	4 x 10	DOWN	12

180 mm, 7"

TSIO1347, MTSIO1348, TSIO1349, TSIO1350

180 mm, 7"

TSIO1351, TSIO1352, TSIO1353, TSIO1354

180 mm, 7"

TSIO1355, TSIO1356, TSIO1357, TSIO1358

1/1
4 x 10

1/2

IVD Rongeur

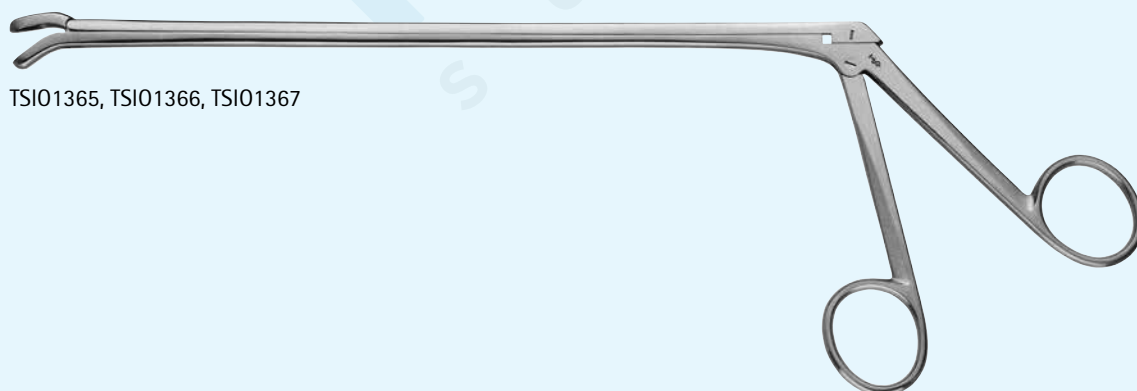
Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1359	5 x 10	STR	9
TSIO1360	5 x 10	STR	11
TSIO1361	5 x 10	STR	12
TSIO1362	5 x 10	UP	9
TSIO1363	5 x 10	UP	11
TSIO1364	5 x 10	UP	12
TSIO1365	5 x 10	DOWN	9
TSIO1366	5 x 10	DOWN	11
TSIO1367	5 x 10	DOWN	12



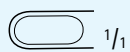
TSIO1359, TSIO1360, TSIO1361



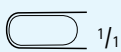
TSIO1362, TSIO1363, TSIO1364



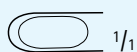
TSIO1365, TSIO1366, TSIO1367



TSIO1359,
TSIO1360,TSIO1361



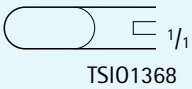
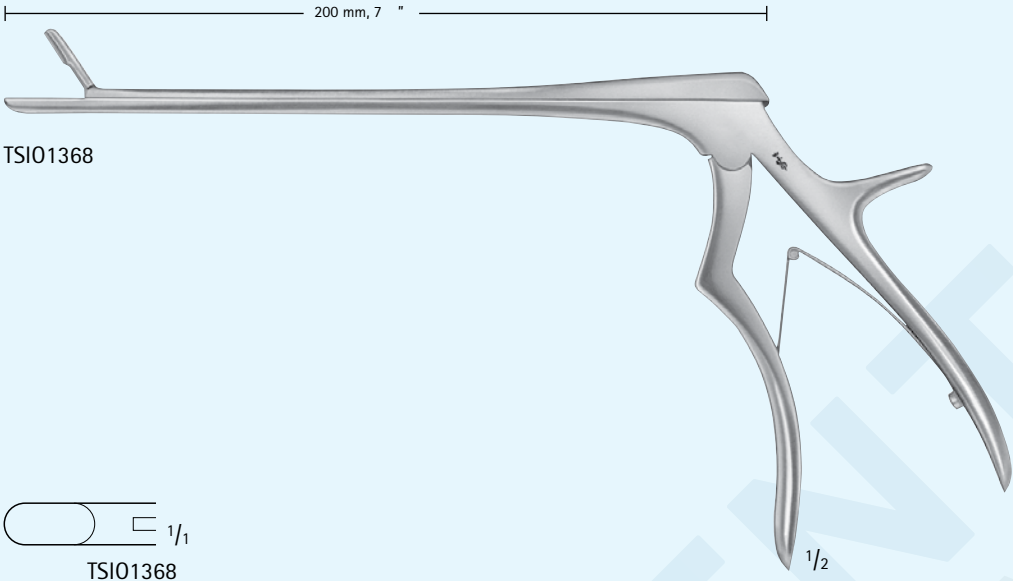
TSIO1362,
TSIO1363,TSIO1364

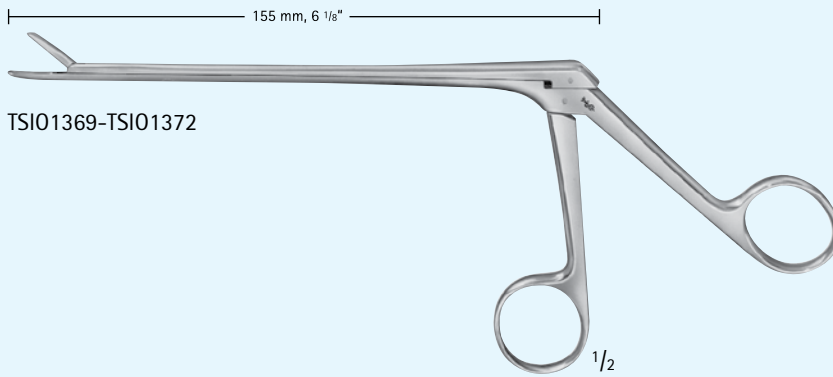


TSIO1365,
TSIO1366,TSIO1367

WAGNER Rongeur

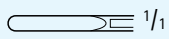
Catalog Number	Jaw Size (mm)	Working Length (in.)
TSIO1368	5.5	7 7/8



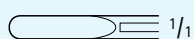


CASPAR Rongeur

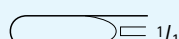
Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1369	2.0	STR	6 1/8
TSIO1370	3.0	STR	6 1/8
TSIO1371	4.0	STR	6 1/8
TSIO1372	5.0	STR	6 1/8
TSIO1373	2.0	UP	6 1/8
TSIO1374	3.0	UP	6 1/8
TSIO1375	4.0	UP	6 1/8
TSIO1376	2.0	DOWN	6 1/8
TSIO1377	3.0	DOWN	6 1/8
TSIO1378	4.0	DOWN	6 1/8



TSIO1369, TSIO1373,
TSIO1376



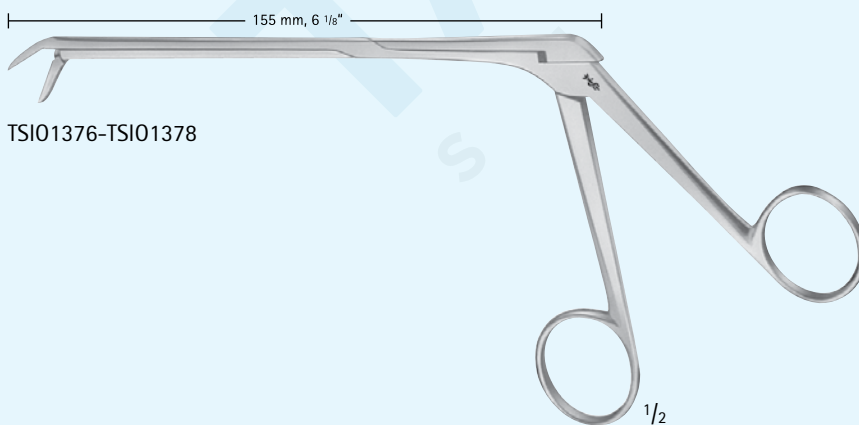
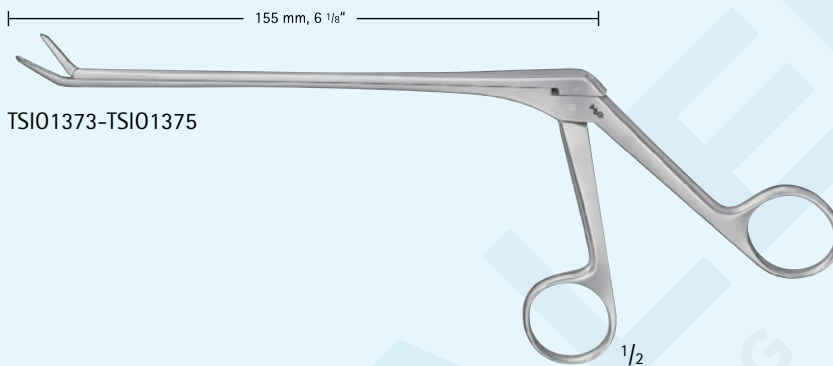
TSIO1370, TSIO1374,
TSIO1377



TSIO1371, TSIO1375,
TSIO1378



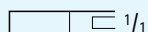
TSIO1372



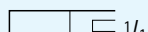


180 mm, 7"

TSIO1379-TSIO1380



TSIO1379



TSIO1380

CASPAR Heavy Rongeur, F/ Removal of Hard Disc Pathology

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1379	3.0	STR	7
TSIO1380	4.0	STR	7

1/2

SYPERT Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1381	5 x 20	UP	10 1/4

260 mm, 10 1/4"

TSIO1381



TSIO1381

1/2

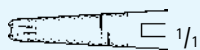
150 mm, 6"

TSIO1382

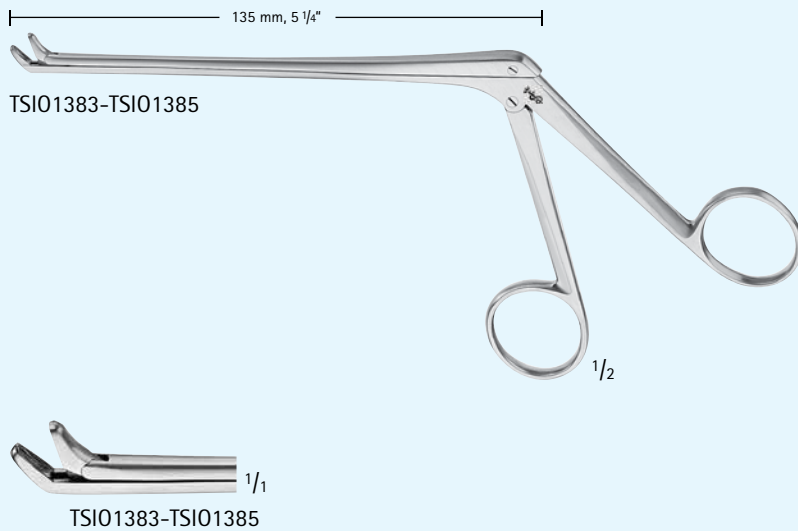
KRAEMER Grasping Forceps, W/ Catch

Catalog Number	Working Length (in.)
TSIO1382	6

1/2

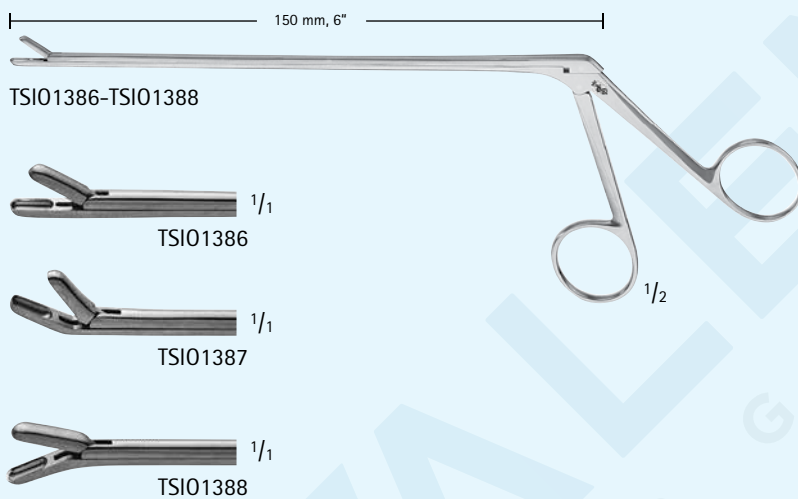


TSIO1382



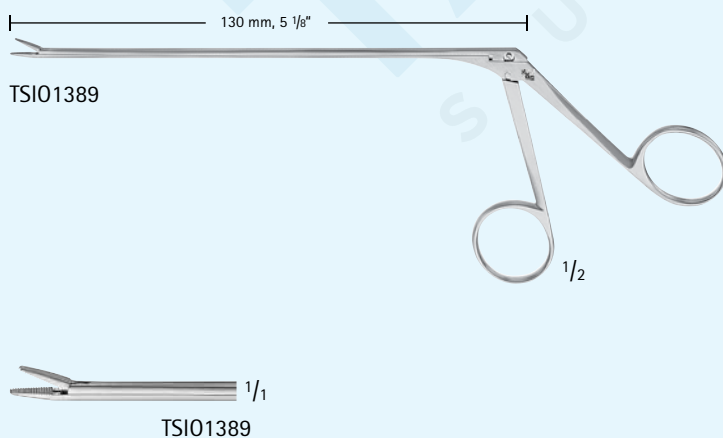
PEAPOD Disc Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1383	2 x 6	UP	5 1/2
TSIO1384	3 x 6	UP	5 1/4
TSIO1385	4 x 6	UP	5 1/4



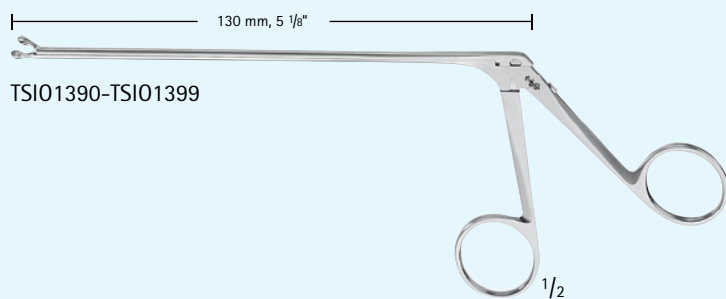
DECKER Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1386	2 x 6	STR	6
TSIO1387	2 x 6	UP	6
TSIO1388	2 x 6	DOWN	6



STEVENSON Grasping Forceps

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1389	6.0	STR	5 1/8



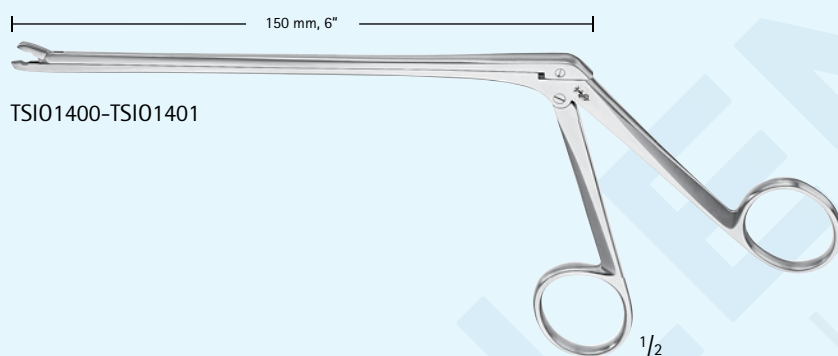
TSIO1390-TSIO1399



TSIO1390-TSIO1399

Rhoton Style Cup Forceps

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1390	0.5	STR	5 1/8
TSIO1391	1.0	STR	5 1/8
TSIO1392	2.0	STR	5 1/8
TSIO1393	3.0	STR	5 1/8
TSIO1394	4.0	STR	5 1/8
TSIO1395	5.0	STR	5 1/8
TSIO1396	0.5	RIGHT	5 1/8
TSIO1397	1.0	RIGHT	5 1/8
TSIO1398	0.5	LEFT	5 1/8
TSIO1399	1.0	LEFT	5 1/8



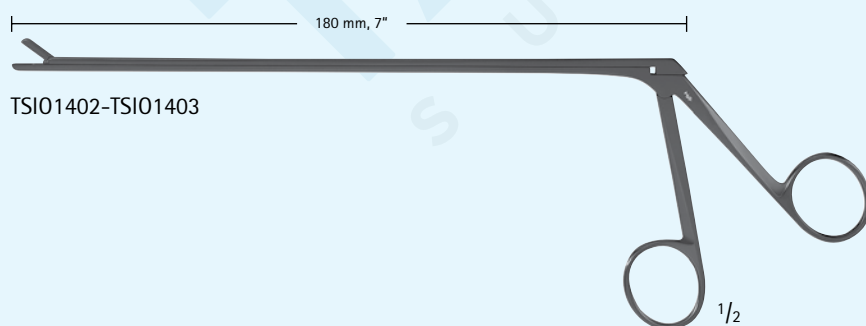
TSIO1400-TSIO1401



TSIO1400-TSIO1401

SELVERSTONE Rongeur

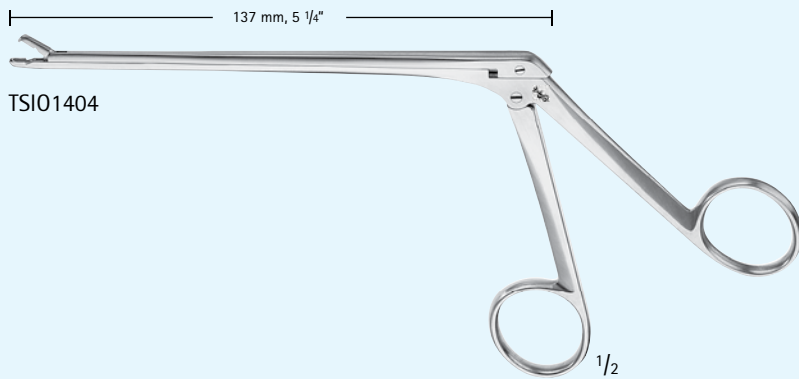
Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1400	2 x 3	STR	6
TSIO1401	2 x 5	STR	6



TSIO1402-TSIO1403

Black Coated Micro Pituitary Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1402	2 x 6	STR	7
TSIO1403	2 x 6	UP	7



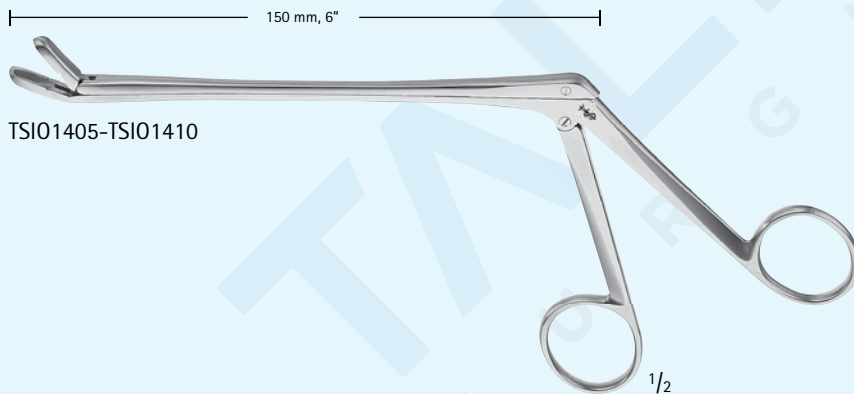
TSIO1404



TSIO1404

WILLIAMS Discectomy Forceps

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1404	2 x 6	STR	5 1/4



TSIO1405-TSIO1410



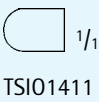
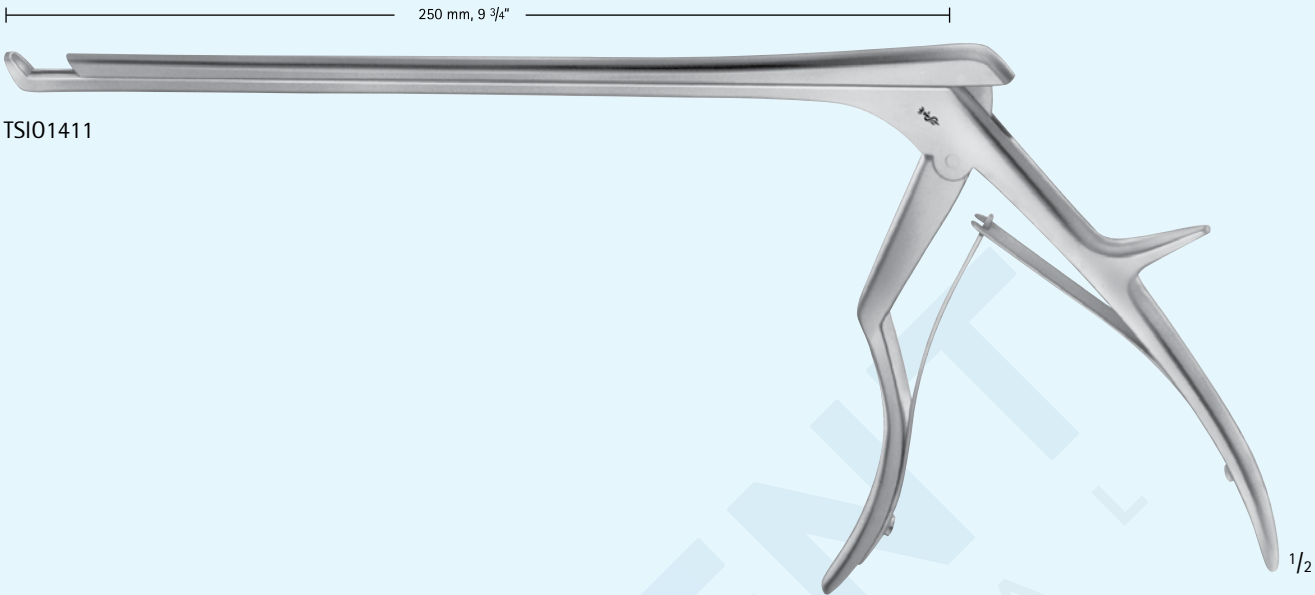
TSIO1405-TSIO1410

CLOWARD Style Rongeur

Catalog Number	Jaw Size (mm)	Jaw	Working Length (in.)
TSIO1405	6 x 10	STR	5 1/4
TSIO1406	6 x 10	STR	6
TSIO1407	6 x 10	UP	5 1/4
TSIO1408	6 x 10	UP	6
TSIO1409	6 x 10	DOWN	5 1/4
TSIO1410	6 x 10	DOWN	6

SYPERT Kerrison Bone Punch

Catalog Number	Jaw Size (mm)	Tip	Working Length (in.)
TSIO1411	5.5	40° UP	9 3/4



Three Primary Styles

- Non Detachable, silver
- Detachable, silver
- Detachable, ceramic NOIR coating

For more information see our brochure DOC400.

Complete Size and Footplate Range

- Regular and thin footplates
- 7", 8", 9", 11" lengths
- 1-6 mm bite sizes
- 15 mm Laminectomy jaw length
- 40° and 90° up and down jaw positions



40° UP



40° UP



40° UP

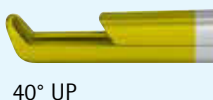
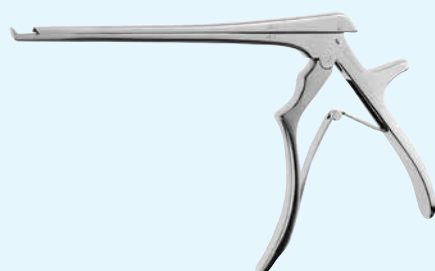
STANDARD

Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector	Detachable, NOIR Coating	Ejector
7	1.0	STANDARD	TSIO1412	-	TSIO1439	-	TSIO1465	-
7	1.5	STANDARD	TSIO1413	-	TSIO1440	-	TSIO1466	-
7	2.0	STANDARD	TSIO1414	-	TSIO1441	✓	TSIO1467	✓
7	2.5	STANDARD	TSIO1415	-	TSIO1442	✓	TSIO1468	✓
7	3.0	STANDARD	TSIO1416	-	TSIO1443	✓	TSIO1469	✓
7	4.0	STANDARD	TSIO1417	-	TSIO1444	✓	TSIO1470	✓
7	5.0	STANDARD	TSIO1418	-	TSIO1445	✓	TSIO1471	✓
7	6.0	STANDARD	TSIO1419	-	TSIO1446	✓	TSIO1472	✓

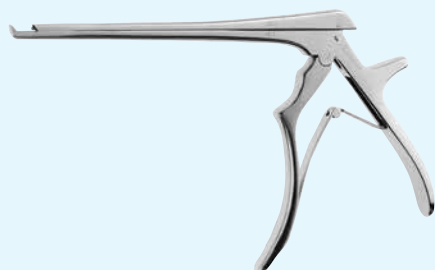
7 7/8	1.0	STANDARD	TSIO1420	-	TSIO1447	-	TSIO1473	-
7 7/8	1.5	STANDARD	TSIO1421	-	TSIO1448	-	TSIO1474	-
7 7/8	2.0	STANDARD	TSIO1422	-	TSIO1449	✓	TSIO1475	✓
7 7/8	2.5	STANDARD	TSIO1423	-	TSIO1450	✓	TSIO1476	✓
7 7/8	3.0	STANDARD	TSIO1424	-	TSIO1451	✓	TSIO1477	✓
7 7/8	4.0	STANDARD	TSIO1425	-	TSIO1452	✓	TSIO1478	✓
7 7/8	5.0	STANDARD	TSIO1426	-	TSIO1453	✓	TSIO1479	✓
7 7/8	6.0	STANDARD	TSIO1427	-	TSIO1454	✓	TSIO1480	✓

9	1.0	STANDARD	TSIO1428	-	TSIO1455	-	TSIO1481	-
9	2.0	STANDARD	TSIO1429	-	TSIO1456	✓	TSIO1482	✓
9	3.0	STANDARD	TSIO1430	-	TSIO1457	✓	TSIO1483	✓
9	4.0	STANDARD	TSIO1431	-	TSIO1458	✓	TSIO1484	✓
9	5.0	STANDARD	TSIO1432	-	TSIO1459	✓	TSIO1485	✓

11	1.0	STANDARD	TSIO1433	-	TSIO1460	-	TSIO1486	-
11	2.0	STANDARD	TSIO1434	-	TSIO1461	✓	TSIO1487	✓
11	3.0	STANDARD	TSIO1435	-	TSIO1462	✓	TSIO1488	✓
11	4.0	STANDARD	TSIO1436	-	TSIO1463	✓	TSIO1489	✓
11	5.0	STANDARD	TSIO1437	-	TSIO1464	✓	TSIO1490	✓
11	6.0	STANDARD	TSIO1438	-	-	-	-	-



Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector	Detachable, NOIR Coating	Ejector
7	1.0	THIN	TSIO1491	-	TSIO1515	-	TSIO1538	-
7	1.5	THIN	TSIO1492	-	TSIO1516	-	TSIO1539	-
7	2.0	THIN	TSIO1493	-	TSIO1517	✓	TSIO1540	✓
7	2.5	THIN	TSIO1494	-	TSIO1518	✓	TSIO1541	✓
7	3.0	THIN	TSIO1495	-	TSIO1519	✓	TSIO1542	✓
7	4.0	THIN	TSIO1496	-	TSIO1520	✓	TSIO1543	✓
7	5.0	THIN	TSIO1497	-	TSIO1521	✓	TSIO1544	✓
7 7/8	1.0	THIN	TSIO1498	-	TSIO1522	-	TSIO1545	-
7 7/8	1.5	THIN	TSIO1499	-	TSIO1523	-	TSIO1546	-
7 7/8	2.0	THIN	TSIO1500	-	TSIO1524	✓	TSIO1547	✓
7 7/8	2.5	THIN	TSIO1501	-	TSIO1525	✓	TSIO1548	✓
7 7/8	3.0	THIN	TSIO1502	-	TSIO1526	✓	TSIO1549	✓
7 7/8	4.0	THIN	TSIO1503	-	TSIO1527	✓	TSIO1550	✓
7 7/8	5.0	THIN	TSIO1504	-	TSIO1528	✓	TSIO1551	✓
9	1.0	THIN	TSIO1505	-	TSIO1529	-	TSIO1552	-
9	2.0	THIN	TSIO1506	-	TSIO1530	✓	TSIO1553	✓
9	3.0	THIN	TSIO1507	-	TSIO1531	✓	TSIO1554	✓
9	4.0	THIN	TSIO1508	-	TSIO1532	✓	TSIO1555	✓
9	5.0	THIN	TSIO1509	-	TSIO1533	✓	TSIO1556	✓
11	1.0	THIN	TSIO1510	-	TSIO1533	-	TSIO1557	-
11	2.0	THIN	TSIO1511	-	TSIO1534	✓	TSIO1558	✓
11	3.0	THIN	TSIO1512	-	TSIO1535	✓	TSIO1559	✓
11	4.0	THIN	TSIO1513	-	TSIO1536	✓	TSIO1560	✓
11	5.0	THIN	TSIO1514	-	TSIO1537	✓	TSIO1561	✓



40° UP



40° UP



40° UP

STANDARD

Working Length (in.)	Jaw Size (mm)	Jaw Opening (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector	Detachable, NOIR Coating	Ejector
7	2.0	15	STANDARD	TSIO1562	-	TSIO1571	✓	TSIO1581	✓
7	3.0	15	STANDARD	TSIO1563	-	TSIO1572	✓	TSIO1582	✓
7	4.0	15	STANDARD	TSIO1564	-	TSIO1573	✓	TSIO1583	✓
7	5.0	15	STANDARD	TSIO1565	-	TSIO1574	✓	TSIO1584	✓
7	6.0	15	STANDARD	-	-	TSIO1575	✓	TSIO1585	✓

7 7/8	2.0	15	STANDARD	TSIO1566	-	TSIO1576	✓	TSIO1586	✓
7 7/8	3.0	15	STANDARD	TSIO1567	-	TSIO1577	✓	TSIO1587	✓
7 7/8	4.0	15	STANDARD	TSIO1568	-	TSIO1578	✓	TSIO1588	✓
7 7/8	5.0	15	STANDARD	TSIO1569	-	TSIO1579	✓	TSIO1589	✓
7 7/8	6.0	15	STANDARD	TSIO1570	-	TSIO1580	✓	TSIO1590	✓



90° UP

STANDARD

Working Length (in.)	Jaw Size (mm)	Jaw Opening (mm)	Non Detachable, Silver	Ejector
7	3	15	TSIO1591	-
7	4	15	TSIO1592	-
7	5	15	TSIO1593	-

8	3	15	TSIO1594	-
8	4	15	TSIO1595	-
8	5	15	TSIO1596	-



40° DOWN



40° DOWN

STANDARD

Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector
7	1.0	STANDARD	TSIO1597	-	TSIO1606	-
7	2.0	STANDARD	TSIO1598	-	TSIO1607	✓
7	3.0	STANDARD	TSIO1599	-	TSIO1608	✓
7	4.0	STANDARD	TSIO1600	-	TSIO1609	✓
7	5.0	STANDARD	TSIO1601	-	TSIO1610	✓

9	2.0	STANDARD	TSIO1602	-	TSIO1611	✓
9	3.0	STANDARD	TSIO1603	-	TSIO1612	✓
9	4.0	STANDARD	TSIO1604	-	TSIO1613	✓
9	5.0	STANDARD	TSIO1605	-	TSIO1614	✓



40° DOWN



40° DOWN

STANDARD

Working Length (in.)	jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector
7	1.0	THIN	TSIO1615	-	TSIO1620	-
7	2.0	THIN	TSIO1616	-	TSIO1621	✓
7	3.0	THIN	TSIO1617	-	TSIO1622	✓
7	4.0	THIN	TSIO1618	-	TSIO1623	✓
7	5.0	THIN	TSIO1619	-	TSIO1624	✓



Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector	Detachable NOIR Coating	Ejector
7	1.0	STANDARD	TSIO1625	-	TSIO1631	-	TSIO1637	-
7	2.0	STANDARD	TSIO1626	-	TSIO1632	-	TSIO1638	✓
7	3.0	STANDARD	TSIO1627	-	TSIO1633	✓	TSIO1639	✓
7	4.0	STANDARD	TSIO1628	-	TSIO1634	✓	TSIO1640	✓
7	5.0	STANDARD	TSIO1629	-	TSIO1635	✓	TSIO1641	✓
7	6.0	STANDARD	TSIO1630	-	TSIO1636	✓	TSIO1642	✓

8	1.0	STANDARD	TSIO1643	-
8	2.0	STANDARD	TSIO1644	-
8	3.0	STANDARD	TSIO1645	-
8	4.0	STANDARD	TSIO1646	-
8	5.0	STANDARD	TSIO1647	-



Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector
7	1	THIN	TSIO1648	-
7	2	THIN	TSIO1649	-
7	3	THIN	TSIO1650	-
7	4	THIN	TSIO1651	-
7	5	THIN	TSIO1652	-

8	2	THIN	TSIO1653	-
8	3	THIN	TSIO1654	-
8	4	THIN	TSIO1655	-
8	5	THIN	TSIO1656	-



Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector	Detachable, Silver	Ejector
7	1.0	STANDARD	TSIO1657	-	TSIO1663	-
7	2.0	STANDARD	TSIO1658	-	TSIO1664	-
7	3.0	STANDARD	TSIO1659	-	TSIO1665	✓
7	4.0	STANDARD	TSIO1660	-	TSIO1666	✓
7	5.0	STANDARD	TSIO1661	-	TSIO1667	✓
7	6.0	STANDARD	TSIO1662	-		

8	2	STANDARD	TSIO1668	-
8	3	STANDARD	TSIO1669	-
8	4	STANDARD	TSIO1670	-
8	5	STANDARD	TSIO1671	-
8	6	STANDARD	TSIO1672	-



Working Length (in.)	Jaw Size (mm)	Footplate	Non Detachable, Silver	Ejector
7	1.0	THIN	TSIO1673	-
7	2.0	THIN	TSIO1674	-
7	3.0	THIN	TSIO1675	-
7	4.0	THIN	TSIO1676	-
7	5.0	THIN	TSIO1677	-

8	1.0	THIN	TSIO1678	-
8	2.0	THIN	TSIO1679	-
8	3.0	THIN	TSIO1680	-
8	5.0	THIN	TSIO1681	-

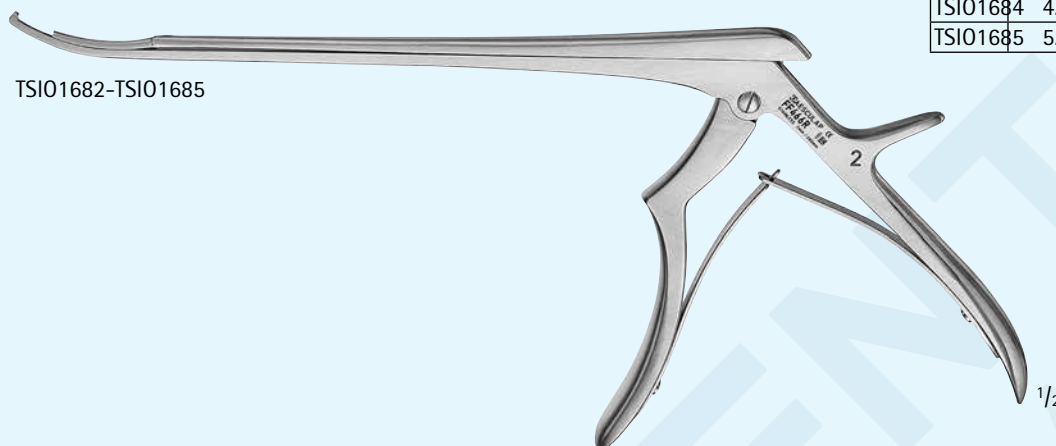
Foraminotomy Kerrison

- Non Detachable design
- Upward curve allows for easier bone removal, providing improved access to the underside of the foramen

KERRISON Foraminotomy Bone Punch

Catalog Number	Jaw Size (mm)	Jaw Opening (mm)	Working Length (in.)
TSIO1682	2.0	10	7 7/8
TSIO1683	3.0	10	7 7/8
TSIO1684	4.0	10	7 7/8
TSIO1685	5.0	10	7 7/8

TSIO1682-TSIO1685



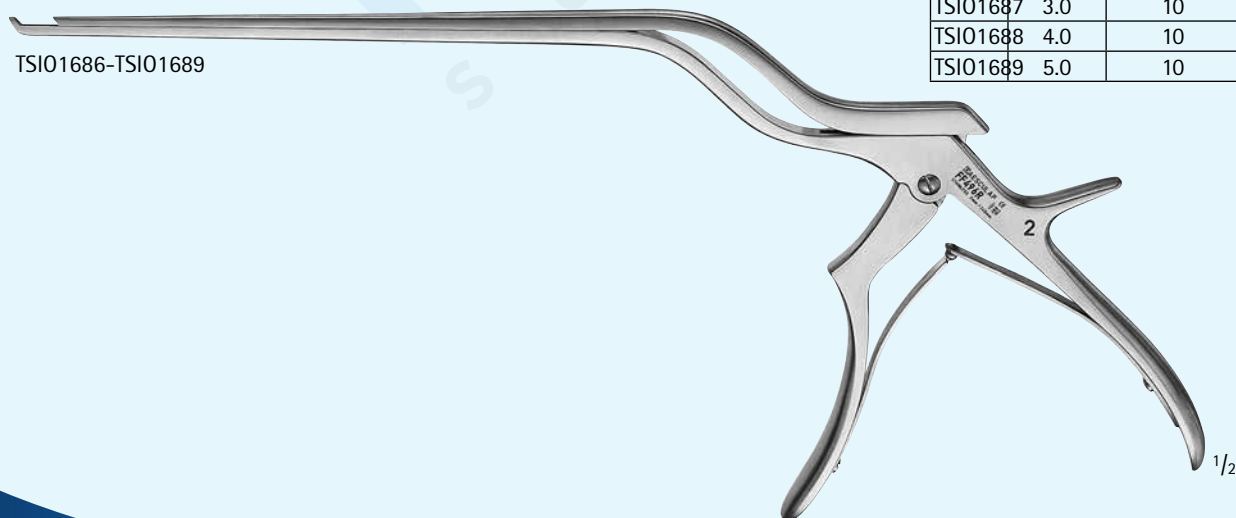
Bayonet-Shaped Kerrison bone punch

- Non Detachable design
- Bayonet shape allows better view over the KERRISON and increased visibility of surgical site
- Easily used through a retractor tube for MIS procedures

KERRISON Bayonet-Shaped Bone Punch, 40° upbiting

Catalog Number	Jaw Size (mm)	Jaw Opening (mm)	Working Length (in.)
TSIO1686	2.0	10	9 1/2
TSIO1687	3.0	10	9 1/2
TSIO1688	4.0	10	9 1/2
TSIO1689	5.0	10	9 1/2

TSIO1686-TSIO1689



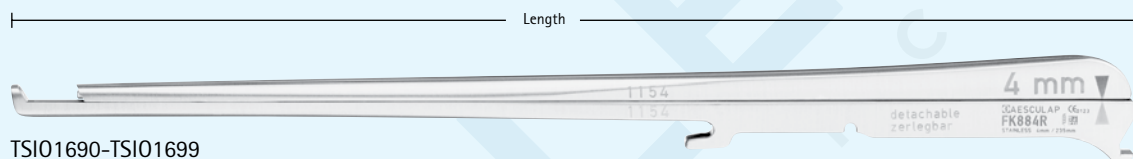

KAIRison Pneumatic Bone Punch

- Easy handling
- Reduces physical effort required
- Relieves strain on hands and joints
- Less risk of reduced motor skills through fatigue
- Innovative safety mechanism
- Short learning curve
- Excellent balance
- Suitable for right- or left-handed use
- Reliable; does not jam
- Ergonomic design

For more information see our brochure DOC763.

KAIRison Pneumatic Bone Punch

Catalog Number	Jaw Size (mm)	Jaw Opening (mm)	Footplate	Ejector	Total Length (in.)
TSIO1690	2.0	12	STANDARD	✓	9 1/4
TSIO1691	3.0	12	STANDARD	✓	9 1/4
TSIO1692	4.0	12	STANDARD	✓	9 1/4
TSIO1693	5.0	12	STANDARD	✓	9 1/4
TSIO1694	6.0	12	STANDARD	✓	9 1/4
TSIO1695	2.0	12	STANDARD	✓	11 1/4
TSIO1696	3.0	12	STANDARD	✓	11 1/4
TSIO1697	4.0	12	STANDARD	✓	11 1/4
TSIO1698	5.0	12	STANDARD	✓	11 1/4
TSIO1699	6.0	12	STANDARD	✓	11 1/4



TSIO1690-TSIO1699

Width (mm)

2.0

3.0

4.0

5.0

6.0

TSIO1699


KAIRison Pneumatic Punch Handle

Catalog Number
TSIO1699

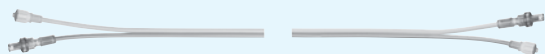
Punch Bracket For Pressure Reducer


Pressure Reducer

TSIO1700-TSIO1703

KAIRison Pressure Reducer

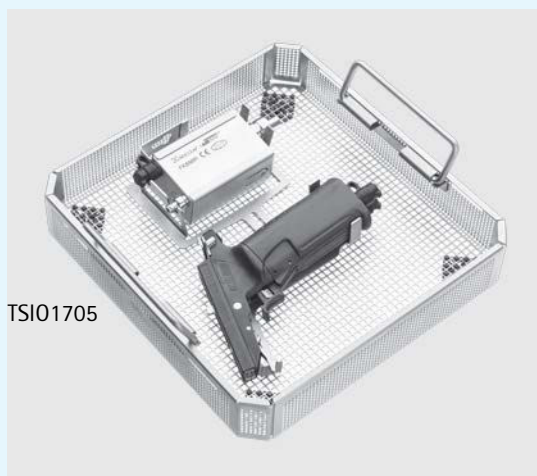
Catalog Number	Description
TSIO1700	PRESSURE REDUCER
TSIO1701	BRACKET FOR PRESSURE REDUCER
TSIO1702	RUBBER CAP, SMALL
TSIO1703	RUBBER CAP, LARGE



TSIO1704

Disposable Tubes for KAIRison
Pneumatic Punch

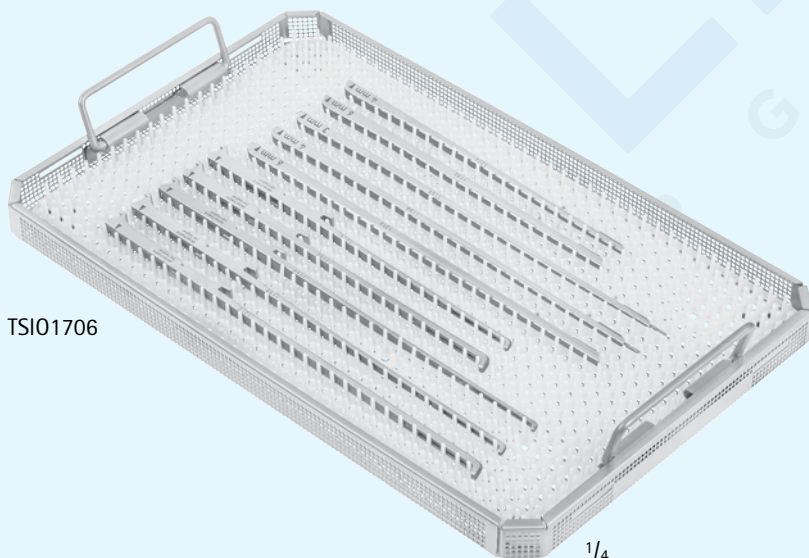
Catalog Number	Packaging
TSIO1704	PAK = Package of 10



TSIO1705

Storage Rack for KAIRison Handle and
Pressure Reducer

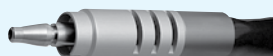
Catalog Number
TSIO1705



TSIO1706

Storage Rack for KAIRison Shafts

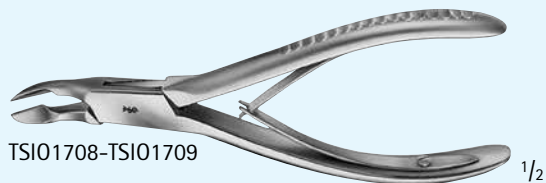
Catalog Number
TSIO1706



TSIO1707

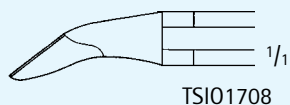
Schrader Connection

Catalog Number	Length (m)
GA468R	TSIO1707



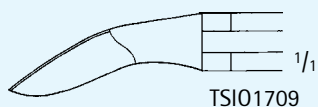
TSIO1708-TSIO1709

$\frac{1}{2}$



TSIO1708

$\frac{1}{1}$



TSIO1709

$\frac{1}{1}$

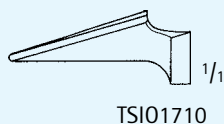
Bone Cutting Forceps

Catalog Number	Jaw	Length (in.)
TSIO1708	UP	5 $\frac{1}{8}$
TSIO1709	UP	6 $\frac{3}{4}$



TSIO1710

$\frac{1}{2}$



TSIO1710

$\frac{1}{1}$

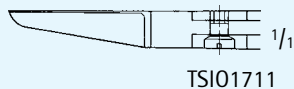
STAMM Bone Cutting Forceps

Catalog Number	Length (in.)
TSIO1710	6



TSIO1711

$\frac{1}{2}$

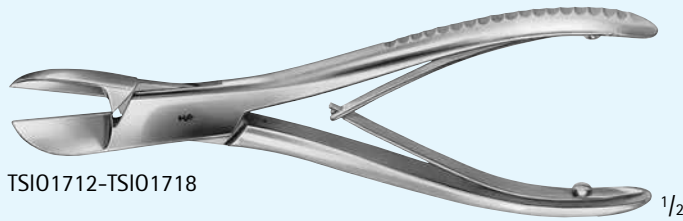


TSIO1711

$\frac{1}{1}$

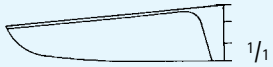
Bone Cutting Forceps, Double Action

Catalog Number	Jaw	Length (in.)
TSIO1711	STR	6 $\frac{3}{4}$



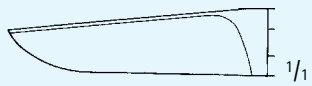
TSIO1712-TSIO1718

1/2



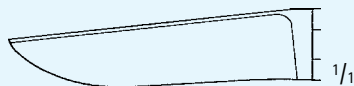
TSIO1712

1/1



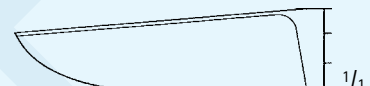
TSIO1713

1/1



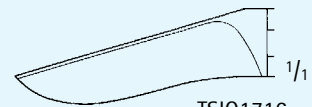
TSIO1714

1/1



TSIO1715

1/1



TSIO1716

1/1



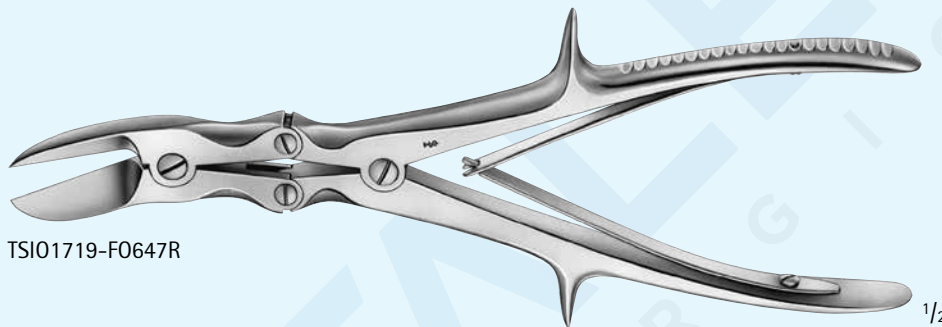
TSIO1717

1/1



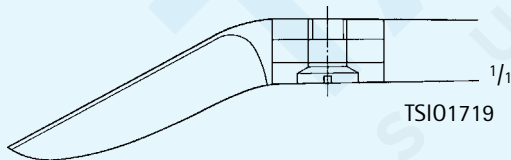
TSIO1718

1/1



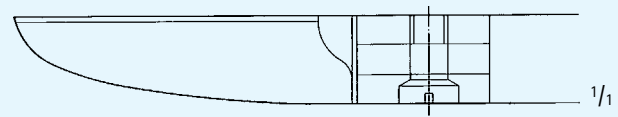
TSIO1719-F0647R

1/2



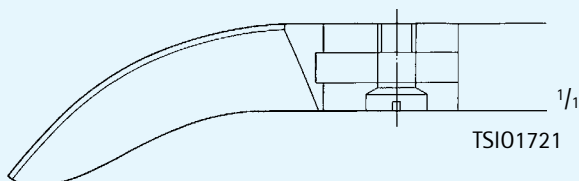
TSIO1719

1/1



TSIO1720

1/1



TSIO1721

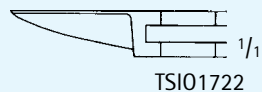
1/1

LISTON Bone Cutting Forceps

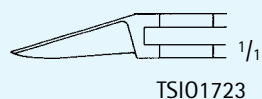
Catalog Number	Jaw	Length (in.)
TSIO1712	STR, Single Action	5 1/2
TSIO1713	STR, Single Action	6 3/4
TSIO1714	STR, Single Action	7 7/8
TSIO1715	STR, Single Action	8 3/4
TSIO1716	ANG, Single Action	6 3/4
TSIO1717	ANG, Single Action	7 7/8
TSIO1718	ANG, Single Action	8 3/4
TSIO1719	CVD, Double Action	9 1/2
TSIO1720	STR, Double Action	11
TSIO1721	CVD, Double Action	11



TSIO1722-TSIO1723



TSIO1722



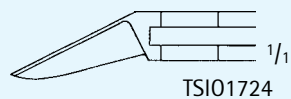
TSIO1723

BOEHLER Bone Cutting Forceps, Double Action

Catalog Number	Jaw	Length (in.)
TSIO1722	STR	5 3/4
TSIO1723	ANG	5 3/4



TSIO1724



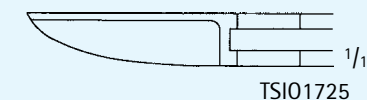
TSIO1724

MCINDOE Bone Cutting Forceps, Double Action

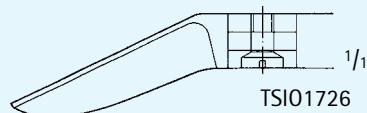
Catalog Number	Jaw	Length (in.)
TSIO1724	ANG	6 7/8



TSIO1725-TSIO1726



TSIO1725



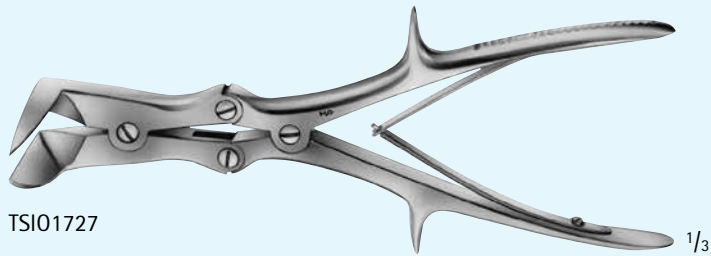
TSIO1726

RUSKIN-LISTON Bone Cutting Forceps, Double Action

Catalog Number	Jaw	Length (in.)
TSIO1725	STR	7 1/2
TSIO1726	ANG	7 1/2

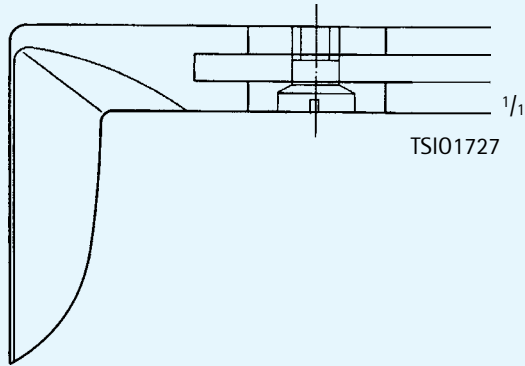
LISTON-STILLE Bone Cutting Forceps,
90° Angle

Catalog Number	Length (in.)
TSI01727	10 1/2



TSI01727

1/3

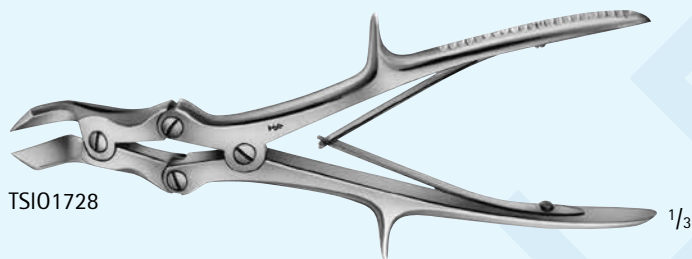


TSI01727

1/1

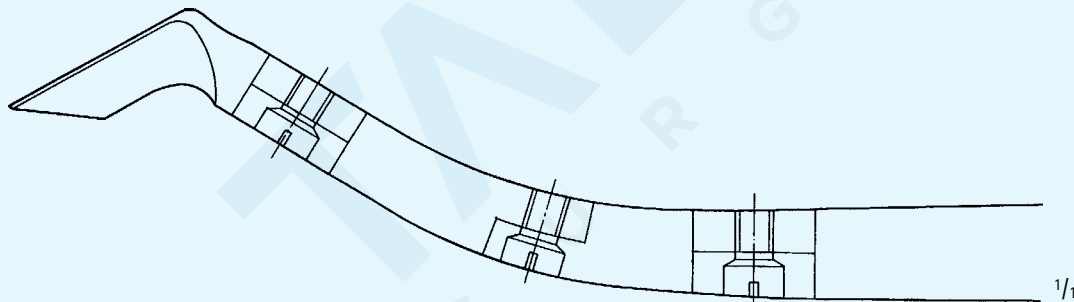
LISTON-KEY-HORSLEY Bone Cutting
Forceps, Angled

Catalog Number	Length (in.)
TSI01728	10



TSI01728

1/3



TSI01728

1/1

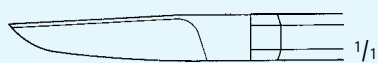
KAZANJIAN Bone Cutting Forceps,
Straight

Catalog Number	Length (in.)
TSI01729	7 1/4



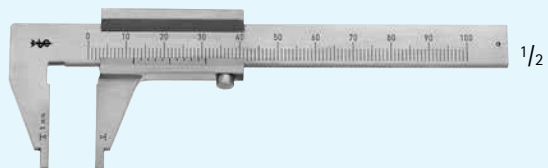
TSI01729

1/2



TSI01729

1/1



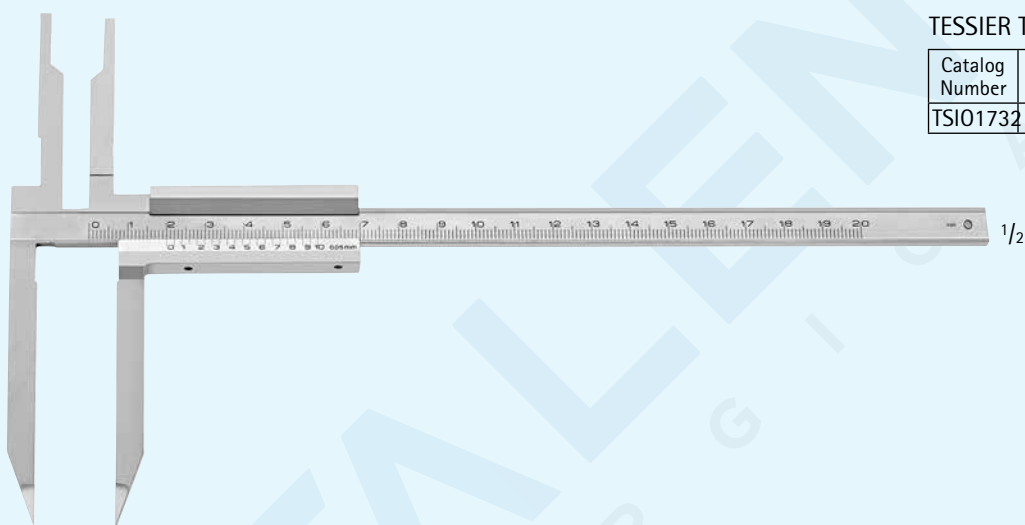
TSIO1730

Caliper for Inner Diameter and Outer Diameter

Catalog Number	Measuring Range	Length (in.)
TSIO1730	UP TO 100MM	5 1/8
TSIO1731	UP TO 150MM	9



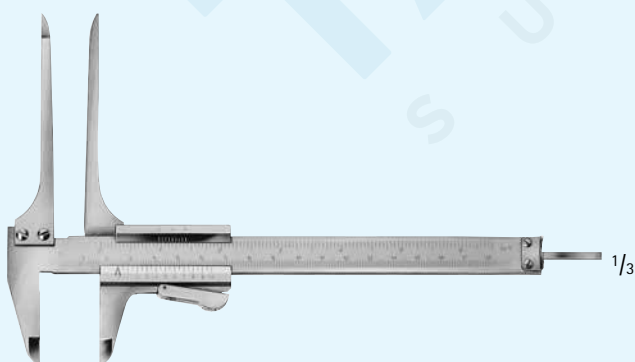
TSIO1731



TSIO1732

TESSIER Type Caliper

Catalog Number	Length (in.)
TSIO1732	10 1/4



TSIO1734

CASPAR Neuro Caliper F/ Bone Graft

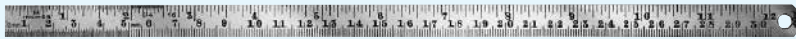
Catalog Number	Length (in.)
TSIO1734	8 7/8



TSI01735

TOWNLEY Femur Caliper

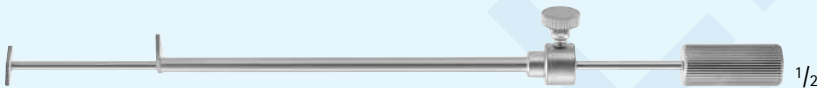
Catalog Number	Length (in.)
TSI01735	4



TSI01736-TSI01738

Steel Ruler, Graduated In Millimeters and Inches

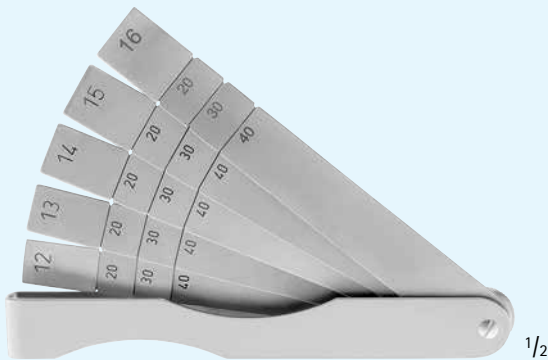
Catalog Number	Length (in.)
TSI01736	6
TSI01737	11 3/4
TSI01738	19 3/4



TSI01739

CLOWARD Style Depth Gauges

Catalog Number	Size	Length (in.)
TSI01739	LARGE	8



TSI01740

CLOWARD Spanner Gauges

Catalog Number	Length (in.)
TSI01740	5



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