

instruments for fracture and fragment fixation



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*Oxidation of lead surface is a normal process.

Per DIN EN 285, autoclave temperatures for lead hands should not exceed:

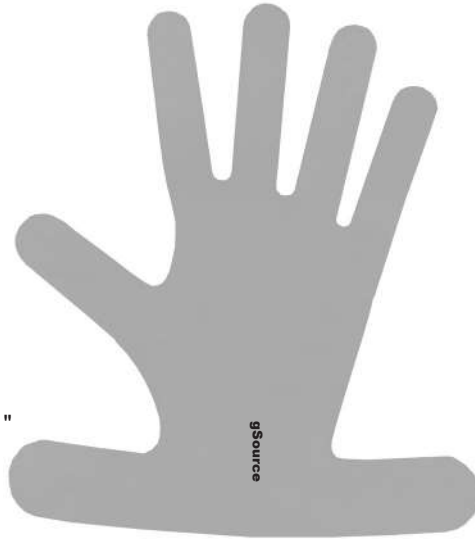
Dry Heat:
356°F (180°C)
30 minutes

Steam:
248°F (120°C)
20 minutes

Avoid chemical sterilization.

gS 11.1930 11"

***Lead Hand Immobilizer**



**Aluminum hand sterilization parameters:

Pre Vacuum cycle:
270°F (132°C) 4 minutes
Drying time minimum
4 minutes

Gravity Cycle:
250°F (121°C)
15-30 minutes
Drying time minimum
15-30 minutes

Lead*

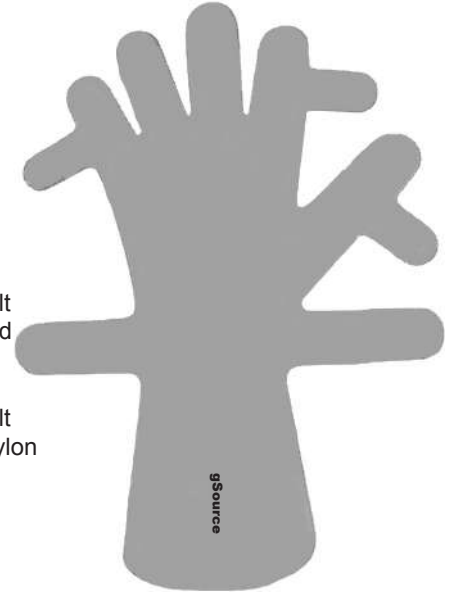
gS 11.1900 14" Adult

gS 11.1920 10" Child

Aluminum**

gS 11.2014 14" Adult
black nylon coating

Hand Immobilizer with tabs



To check fracture and remove ingrown tissue.

gS 11.9500 6"

Sharp Hook



To check fracture and remove ingrown tissue.

gS 11.9525 6 1/4"

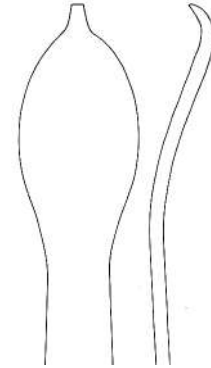
Sharp Hook
grooved handle



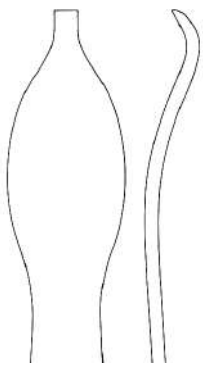
4 - scalpel handles and hand-held retractors

gS 12.1605 #3K 4"
gS 12.1604 #3KL 5"
gS 12.1606 #3KXL 6"

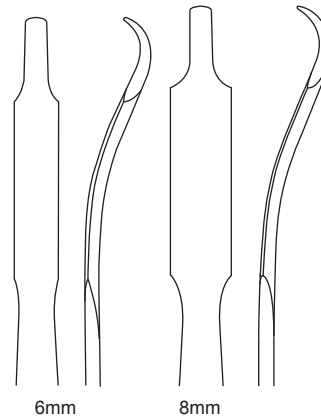
Scalpel Handle #3K
Beaver-style
for blades 61 through 69



gS 34.9260 4 3/4"
Hohmann Retractor
with finger ring
15mm



gS 36.9270 6"
Hohmann Retractor
15mm

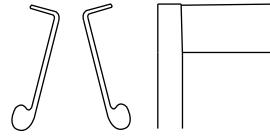


gS 36.9300 6mm
gS 36.9320 8mm
Hohmann Retractor Mini
6 1/2"



hand-held and self-retaining retractors - 5

gS 37.2100 10 1/2"
Pelvic Retractor
 1" blunt

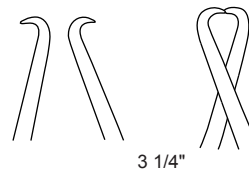
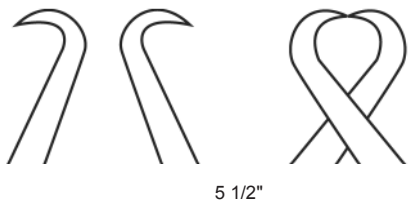
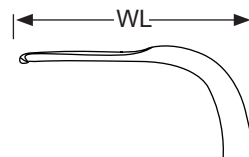


Helps to provide increased visibility of the tendon sheath in trigger finger procedures. Also useful in other small incision procedures.

gS 38.5500 4 1/4" blunt
gRetractor, Trigger Finger
 6.5mm width x 12mm depth blade



WL = Working Length



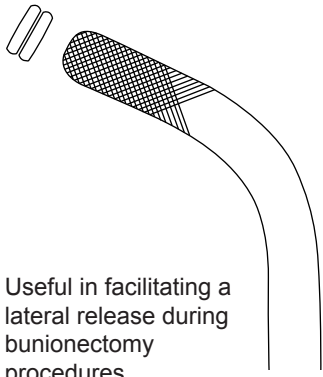
gS 38.8797 4"
gS 38.8799 5 1/2"
Johnson Neuroma Retractor



gS 38.8793 3 1/4", 7.5mm
gS 38.8795 4", 9.5mm
gRetractor, Johnson Neuroma
 90° angle, 1 1/4" WL



6 - self-retaining retractors and distractors

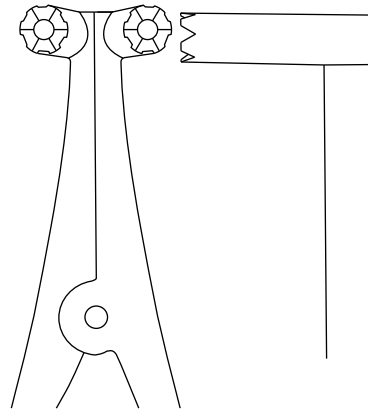


Useful in facilitating a lateral release during bunionectomy procedures.

3mm-30mm calibrations marked on bottom side of ratchet help to measure and assess the width needed for the lateral portion of the bone graft.

gS 40.3150 5 1/2"

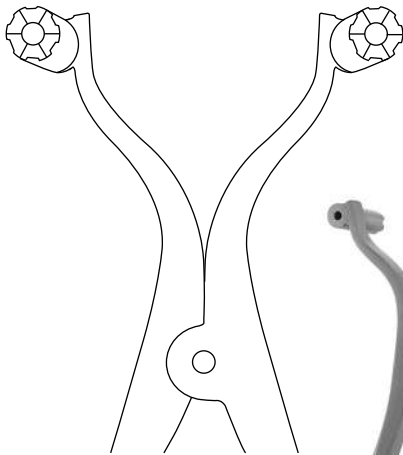
gRetractor, Abramssohn
outside cross serrated blades
calibrated ratchet



For small bone fixation procedures.

gS 40.1100 6"

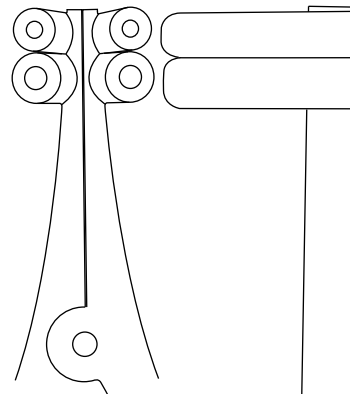
gDistractor
with guides, calibrated ratchet
max cap 2.4mm [.094"]



Outspread arms are useful for small bone fixation and other indications.

gS 40.1120 6"

gDistractor, Open
with guides
max cap 2.4mm [.094"]



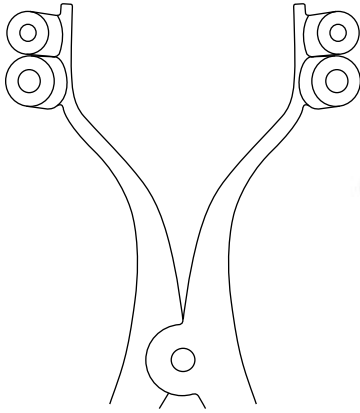
For small bone fixation procedures.

gS 40.1130 6"

gDistractor
with double guides
max cap 1.6mm [.062"] and 2.5mm [.098"]



distractors and elevators - 7



Outspread arms are useful for small bone fixation and other indications.

gS 40.1140 6"

gDistractor, Open
with double guides
max cap 1.6mm [.062"] and 2.5mm [.098"]



Side wings prevent rolling.

Useful for lifting periosteum from bones in confined areas.

gS 42.7140 7 1/2"

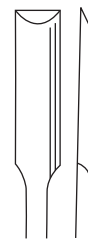
Freer Elevator
double ended
sharp/blunt 5mm ends



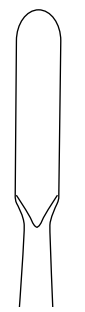
gS 43.3060



gS 43.3070



gS 43.3110



gS 43.3120

straight edge

gS 43.3060 3mm curved sharp

gS 43.3070 6mm curved sharp

gS 43.3110 6mm straight sharp

curved edge

gS 43.3120 6mm curved sharp

Periosteal Elevator

7 1/4"

phenolic handle

8 - bone awl, bone hooks and bone holding

gS 44.5200 11"

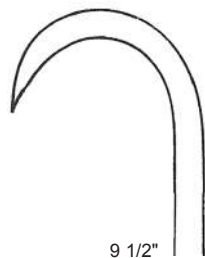
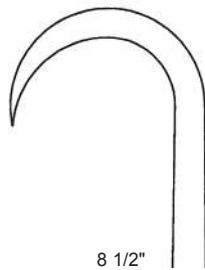
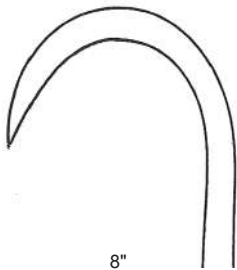
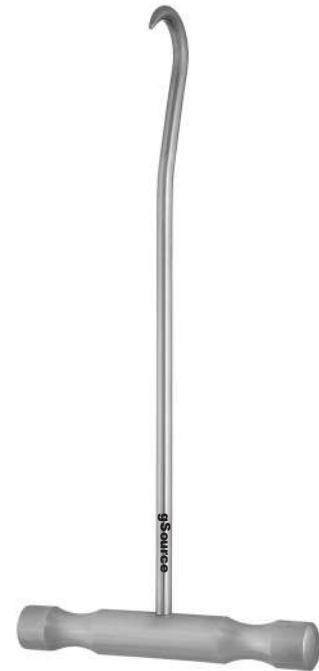
**Kuntscher Diamond
Pointed Awl**



gS 45.4320 sharp
gS 45.4321 blunt

Bone Hook
8"

T-handle, 20mm deep

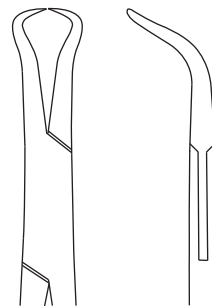


gS 45.4340 8" 25mm deep

gS 45.4346 8 1/2" 20mm deep

gS 45.4350 9 1/2" 20mm deep

Volkman Bone Hook
sharp

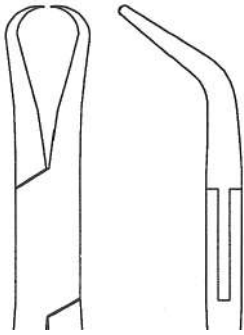


Max opening with
ratchet engaged: 16mm.

gS 46.2180 3 1/2"

Termite Forceps
curved pointed tips

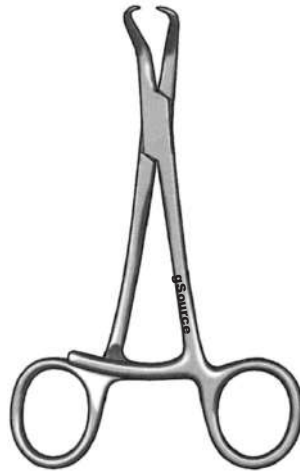




Max opening with ratchet engaged: 14mm.

gS 46.2190 4 3/4"

Stagbeetle Forceps
curved pointed tips



For positioning mini plates.

Max opening with ratchet engaged: 16mm.

gS 46.2390 5"

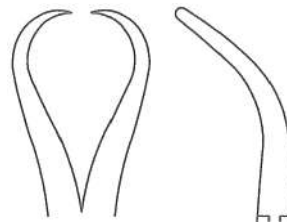
Plate and Bone Holding Forceps
one pointed tip, one footplate



Max opening with ratchet engaged: 13mm.

gS 46.2395 5 1/2"

Plate Holding Forceps
curved



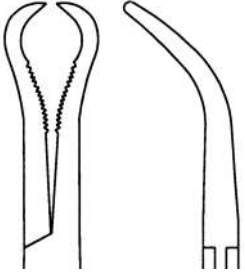
Max opening with ratchet engaged: 16mm.

gS 46.4000 5"

Bone Reduction Forceps
curved, pointed tips



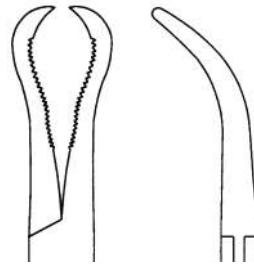
10 - bone holding



Max opening with ratchet engaged: 16mm.

gS 46.2330 5"

Bone Reduction Forceps
curved, pointed tips
10mm serrations



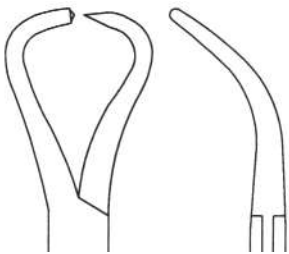
Max opening with ratchet engaged: 16mm.

gS 46.2350 5"

Bone Reduction Forceps
curved, pointed tips
15mm serrations



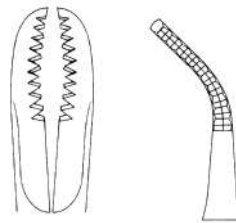
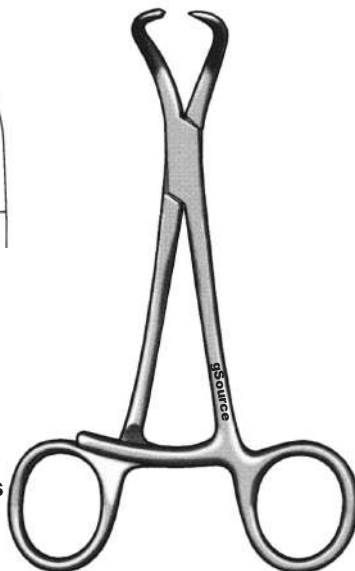
One tip has a stepped point for better hold on bone.



Max opening with ratchet engaged: 13mm.

gS 46.2370 5"

Bone Reduction Forceps
curved, one pointed tip
one step-pointed tip



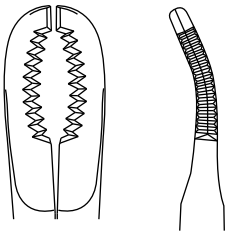
Max opening with ratchet engaged: 15mm.

gS 46.2280 6"

Bone Reduction Forceps
curved
serrated jaws



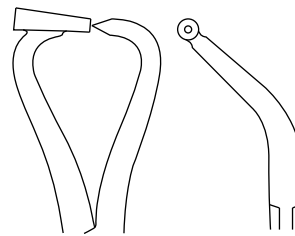
bone holding - 11



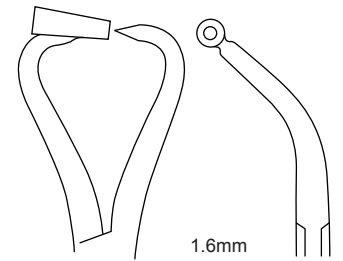
Max opening with ratchet engaged: 30mm.

gS 46.2282 6"

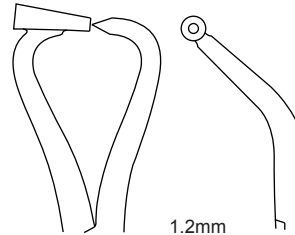
Bone Reduction Forceps
curved
narrow serrated jaws



0.9mm



1.6mm



1.2mm

For positioning k-wires.

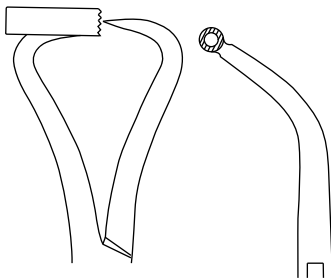
Max opening with ratchet engaged: 12mm.

gS 46.4009 0.9mm [.035"]

gS 46.4012 1.2mm [.047"]

gS 46.4016 1.6mm [.062"]

Bone Reduction Forceps
5 1/2"
curved with guide

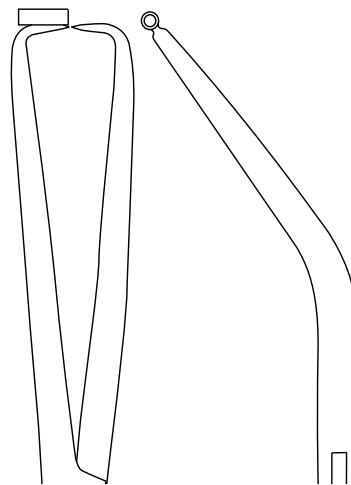


For positioning k-wires with diameter up to 1.6mm [.062"].

Max opening with ratchet engaged: 13mm.

gS 46.4040 5 1/4"

Bone Reduction Forceps
curved with 1.6mm [.062"] guide



For positioning k-wires with diameter up to 1.1mm [.045"].

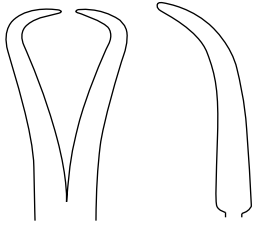
Max opening with ratchet engaged: 18mm.

gS 46.4060 6 3/4"

Bone Reduction Forceps
curved with 1.1mm [.045"] guide



12 - bone holding



2mm-10mm calibrations on ratchet help with determining bone diameter when using compression screws.

Max opening with ratchet engaged: 10mm.

gS 46.2375 5"

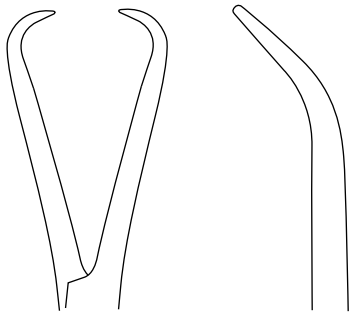
Phalangeal Percutaneous Bone Reduction Forceps



Max opening with ratchet engaged: 15mm.

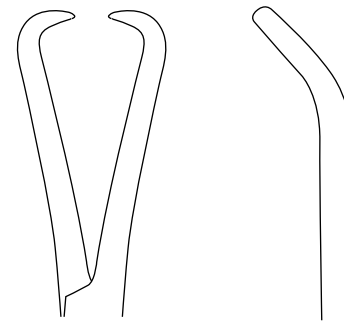
gS 46.2320 7"

Bone Reduction Forceps (Reill) curved jaw



gS 46.2332 6"

gForceps, Bone Reduction double ratchet
opening: 2mm to 35mm

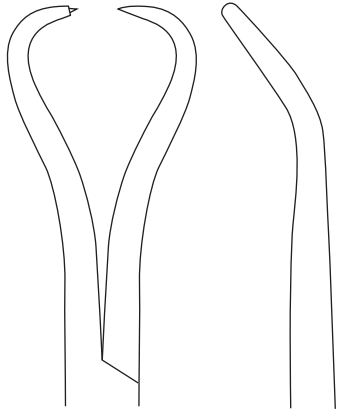


Heavy tips are shorter for strength.

gS 46.2333 6"

gForceps, Bone Reduction double ratchet, heavy tips
opening: 2mm to 35mm

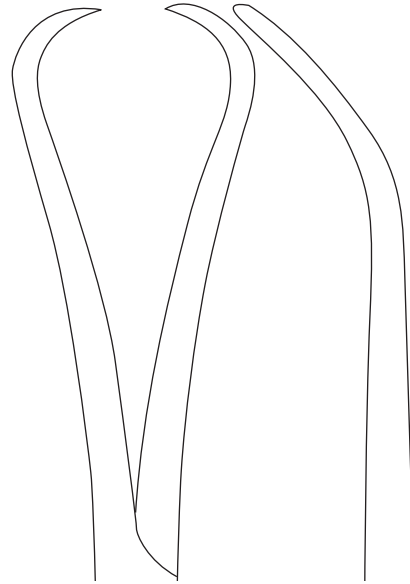




One step-pointed tip.

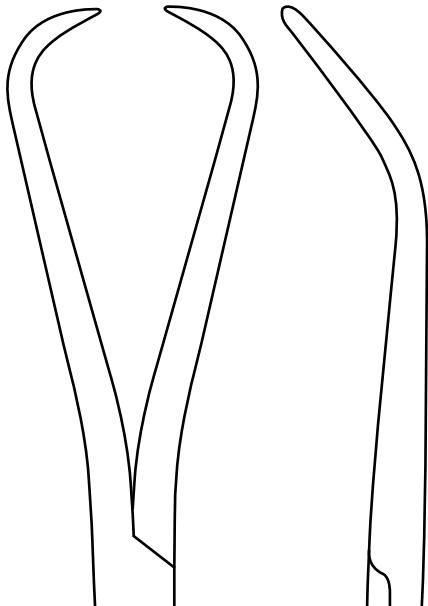
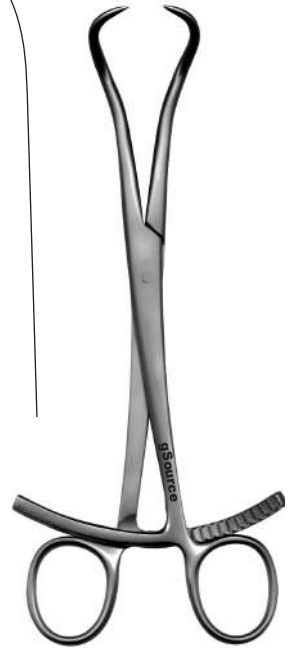
gS 46.2335 7"

Bone Reduction Forceps
double ratchet
opening: 4mm to 45mm



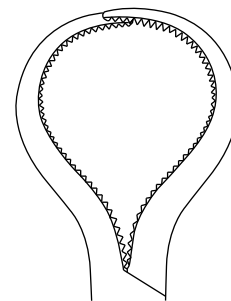
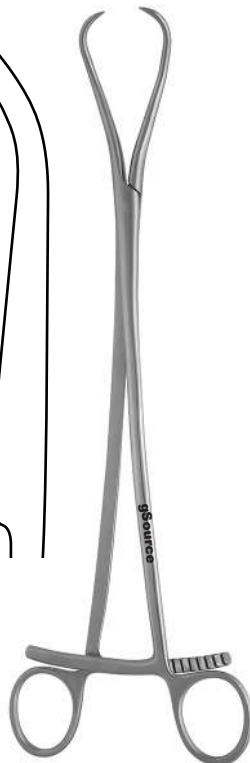
gS 46.2340 8"

Bone Reduction Forceps
double ratchet
opening: 9mm to 100mm



gS 46.2348 12"

Bone Reduction Forceps
double ratchet
opening: 5mm to 45mm

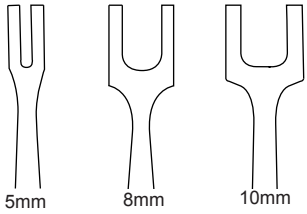


gS 46.2305 6 3/4"

gForceps, Lewin Bone Holding
30° angled handle
overlapping serrated jaws



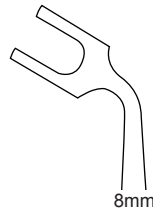
14 - bone holding



Jaws with 8 pointed teeth help to provide stabilization and guidance for small bone fixation.

- gS 46.3005** 5 1/2" 5mm
- gS 46.3008** 5 1/2" 8mm
- gS 46.3010** 6 1/4" 10mm

Ikuta Bone Clamp
straight



Space between prongs allows for placement of k-wires or screws.

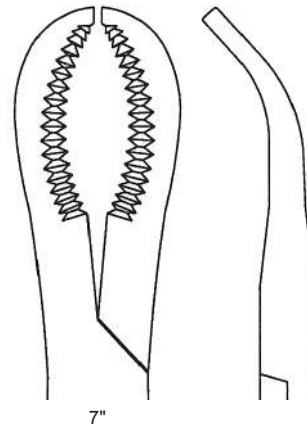
- gS 46.3015** 5 1/2" 5mm
- gS 46.3018** 5 1/2" 8mm
- gS 46.3020** 6 1/4" 10mm

Ikuta Bone Clamp
angled



- gS 46.2342** 8"

Bone Reduction Forceps
with speedlock
max opening: 70mm



- gS 46.2407** 7" max: 28mm
- gS 46.2409** 9" max: 45mm

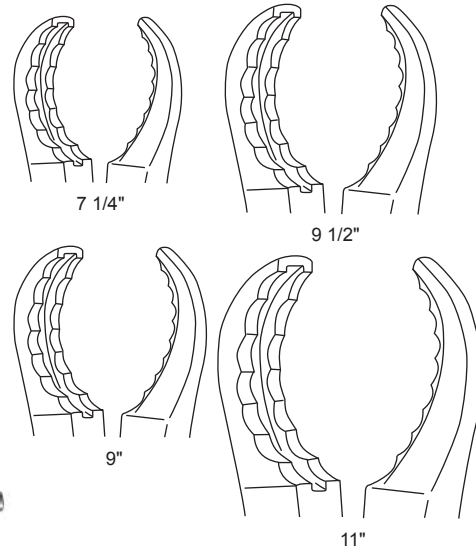
Bone Holding Forceps
with speedlock
curved serrated jaws



For positioning 2.7mm and 3.5mm plates.

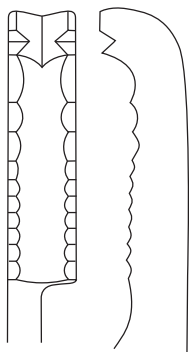
gS 46.2380 8"

Plate Holding Forceps
with swivel foot



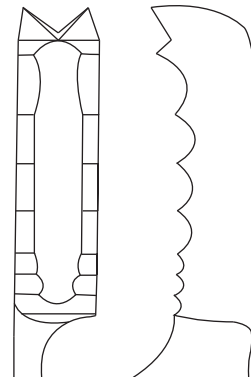
gS 46.2116 7 1/4"
gS 46.2118 9"
gS 46.2120 9 1/2"
gS 46.2122 11"

Ulrich Bone Holding Forceps
straight
with speedlock



gS 47.0919 7 1/2"

Farabeuf Lambotte Forceps
adjustable jaw with ratchet

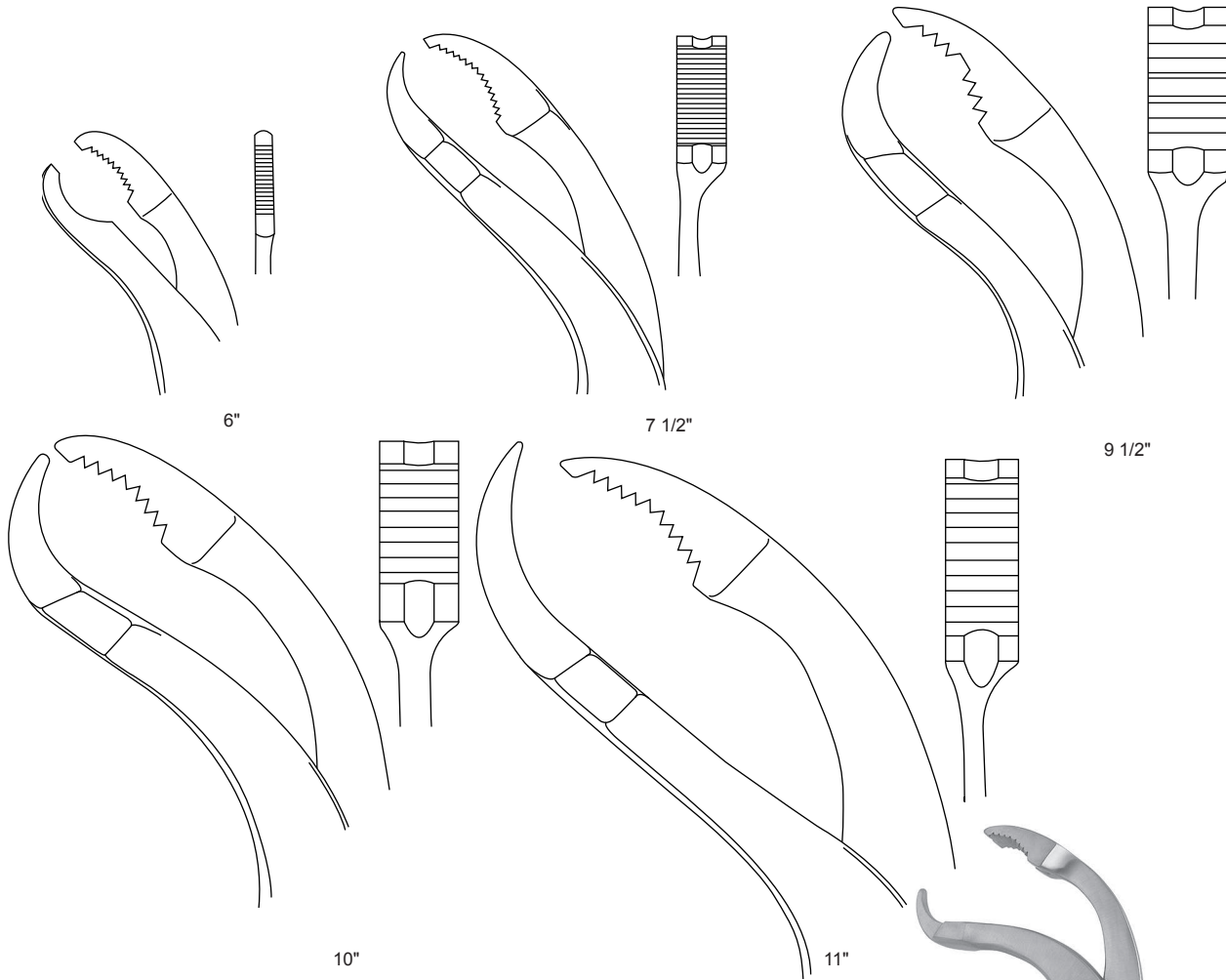


gS 47.1020 10"

Farabeuf Lambotte Forceps
adjustable jaw with ratchet



16 - bone holding

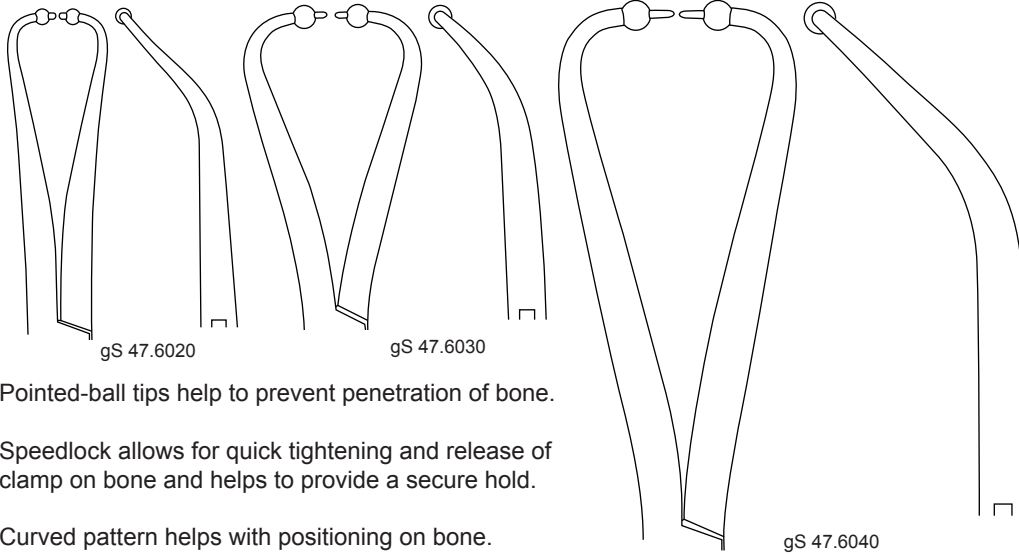


		Max opening
gS 46.1900	6"	25mm
gS 46.1920	7 1/2"	55mm
gS 46.1940	9 1/2"	65mm
gS 46.1960	10"	65mm
gS 46.1980	11"	65mm

Verbrugge Forceps
self-centering with speedlock



OD = Outside Diameter



Pointed-ball tips help to prevent penetration of bone.

Speedlock allows for quick tightening and release of clamp on bone and helps to provide a secure hold.

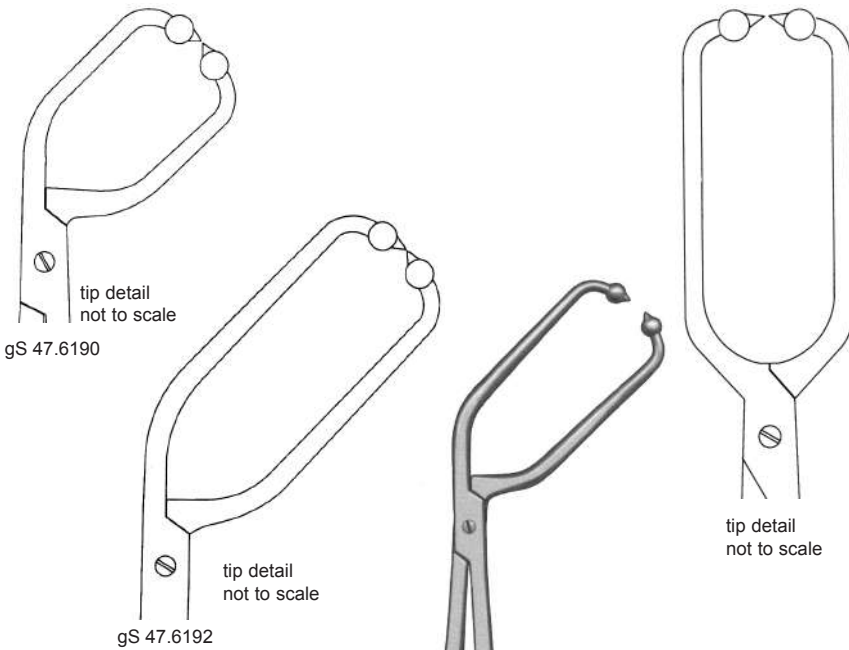
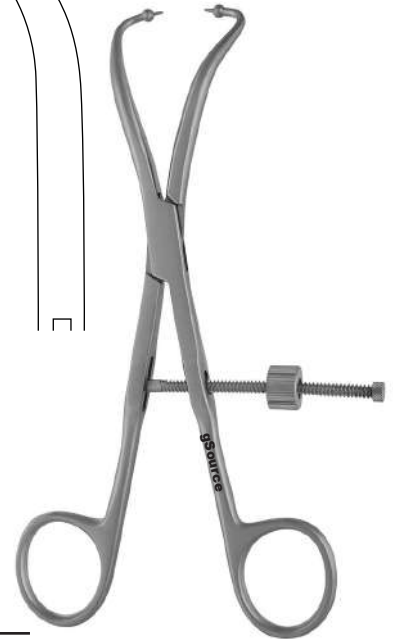
Curved pattern helps with positioning on bone.

OD Ball Tips

gS 47.6020	5 1/2"	2mm
gS 47.6030	6 1/2"	3mm
gS 47.6040	8"	4mm

gClamp, Bone Fragment

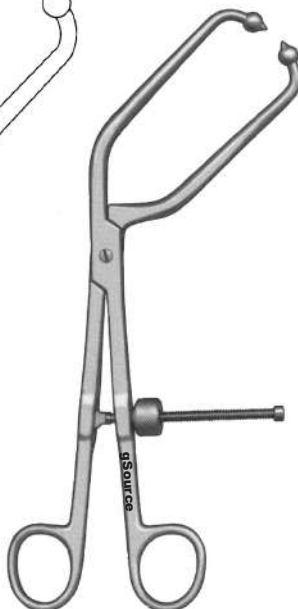
ball tips, curved
speedlock



gS 47.6190	7 3/4" short
gS 47.6192	9 1/2" long

Pelvic Reduction Forceps

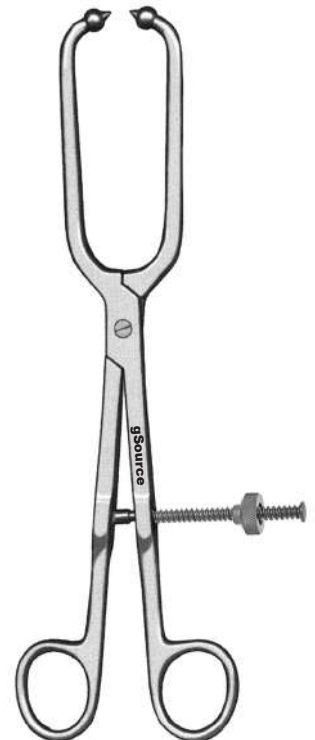
angled pointed ball tips
with speedlock



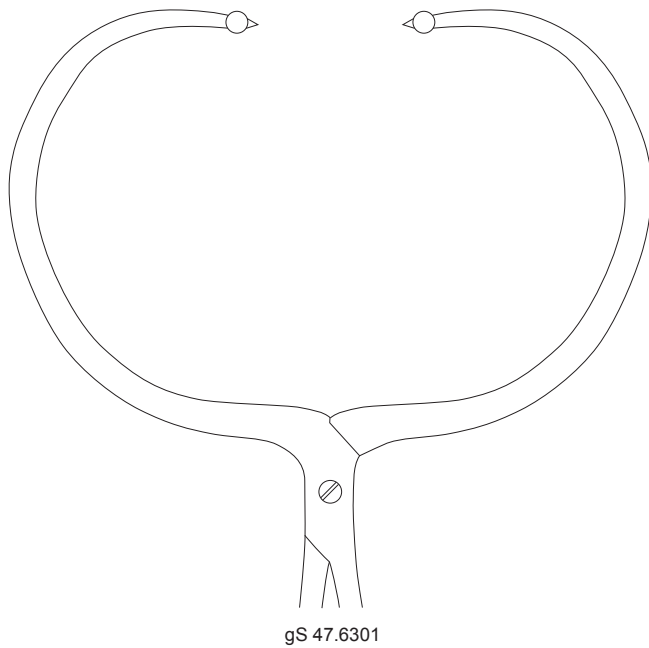
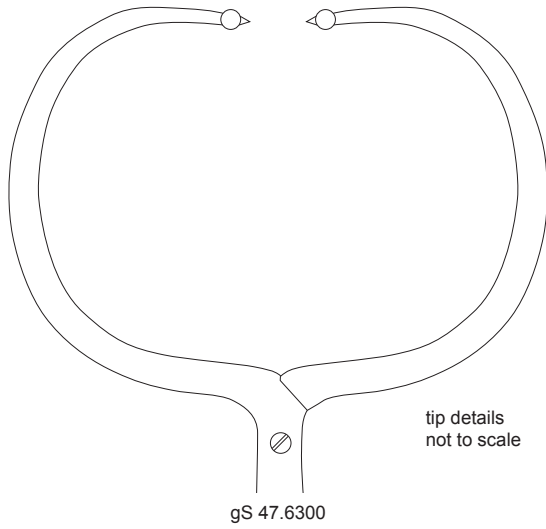
gS 47.6196 10"

Pelvic Reduction Forceps

straight long pointed ball tips
with speedlock

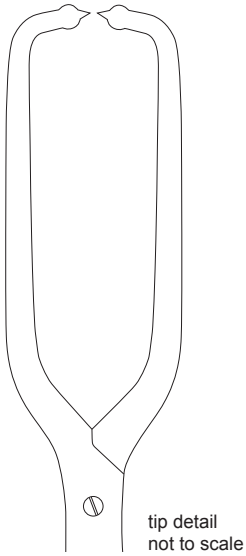


18 - bone holding



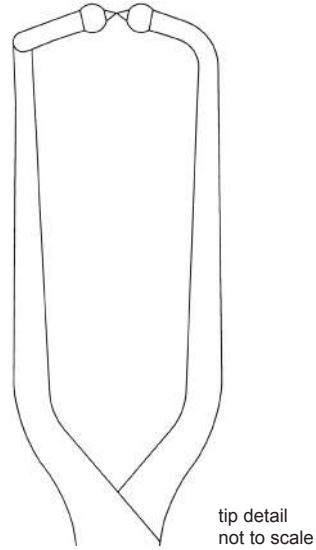
gS 47.6300 medium 14mm-128mm opening
gS 47.6301 large 39mm-181mm opening

Periarticular Reduction Forceps
15" straight, pointed ball tips
with speedlock



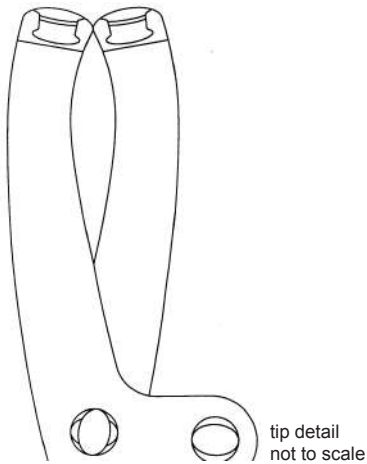
gS 47.6200 16"

Pelvic Reduction Forceps
straight long pointed ball tips
with speedlock



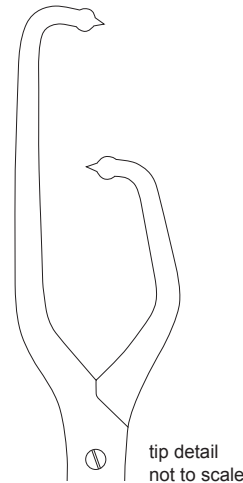
gS 47.6208 16"

Pelvic Reduction Forceps
long 1x2 pointed ball tips
with speedlock



gS 47.6212 13 1/2"

Pelvic Reduction Forceps
adjustable jaw for screws
with speedlock



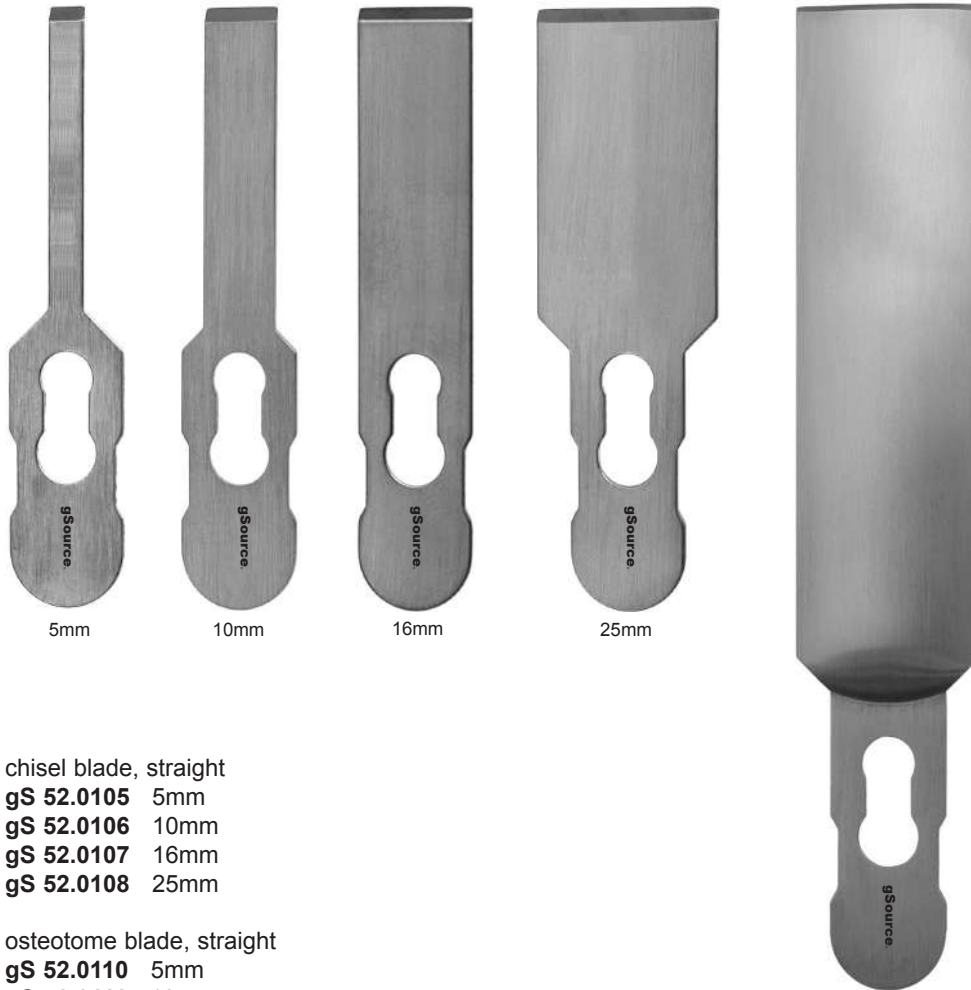
gS 47.6204 16"

Pelvic Reduction Forceps
asymmetric pointed ball tips
with speedlock



20 - chisel, osteotome and gouge blades

Plastic handle is autoclavable to 250° F [121° C].



5mm

10mm

16mm

25mm

chisel blade, straight

gS 52.0105 5mm

gS 52.0106 10mm

gS 52.0107 16mm

gS 52.0108 25mm

osteotome blade, straight

gS 52.0110 5mm

gS 52.0111 10mm

gS 52.0112 16mm

gS 52.0113 25mm

gouge blade

gS 52.0160 60mm radius

gS 52.0100 handle only

gS 52.0101 key only, 3 1/4" 3.0mm hex

gS 52.0103 key only, 5 1/4" 3.0mm hex

knurled aluminum handle

gS 52.0102 replacement screw only

Interchangeable Osteotome, Chisel and Gouge

7"

plastic handle, black

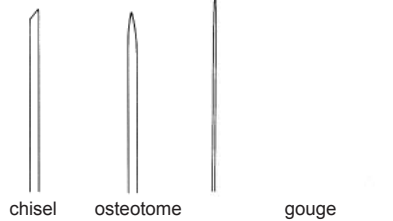


3.0mm

3 1/4" hex key

5 1/4" hex key

60mm radius



chisel

osteotome

gouge



handle

Replaceable double nylon caps with green silicone handle.

gS 59.8800 8 1/2"
gS 59.7621 nylon cap only

gMallet
weight: 9oz [255g]
head diameter: 25mm



gS 74.0040 3 1/2"
gS 74.1040 6 1/2"

Castroviejo Caliper
straight
graduated from 0 to 40mm



measures inside
and outside

gS 74.4140 4 1/2"

Townley Caliper
inch and mm graduations
measures up to 4" [100mm]




Used to measure
angles, particularly
the range of motion
for joints such as the
hip, knee, elbow or
shoulder.


gS 74.2180 8"
gS 74.2190 11 1/2"


gGoniometer
measures 0-180 degrees





22 - stainless steel k-wires

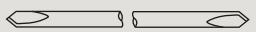
Double Trocar		Smooth				
						
diameter		4"	5"	6"	9"	12"
0.7mm	[.028"]	gS 78.2000	gS 78.2050	gS 78.1210	gS 78.2105	gS 78.2200
0.9mm	[.035"]	gS 78.2010	gS 78.2060	gS 78.1220	gS 78.2110	gS 78.2210
1.1mm	[.045"]	gS 78.2020	gS 78.2070	gS 78.1230	gS 78.2120	gS 78.2220
1.4mm	[.054"]	gS 78.2040	gS 78.2080	gS 78.1240	gS 78.2140	gS 78.2240
1.6mm	[.062"]	gS 78.2030	gS 78.2090	gS 78.1250	gS 78.2130	gS 78.2230

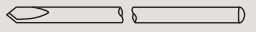
		Full Thread				
						
diameter		4"	5"	6"	9"	12"
1.6mm	[.062"]	gS 78.4210	gS 78.4220	gS 78.4230	gS 78.4030	gS 78.4035

Single Trocar		Smooth / Round End				
						
diameter		4"	5"	6"	9"	12"
0.7mm	[.028"]	gS 78.2300	gS 78.2700	gS 78.2800	gS 78.2500	gS 78.2600
0.9mm	[.035"]	gS 78.2310	gS 78.2710	gS 78.2810	gS 78.2510	gS 78.2610
1.1mm	[.045"]	gS 78.2320	gS 78.2720	gS 78.2820	gS 78.2520	gS 78.2620
1.4mm	[.054"]	gS 78.2330	gS 78.2740	gS 78.2840	gS 78.2540	gS 78.2640
1.6mm	[.062"]	gS 78.2340	gS 78.2750	gS 78.2850	gS 78.2530	gS 78.2630

		Partial Thread 25mm / Round End				
						
diameter		4"	5"	6"	9"	12"
1.6mm	[.062"]	gS 78.9110	gS 78.9112	gS 78.9114	gS 78.9116	gS 78.9118

		Full Thread / Round End				
						
diameter		4"	5"	6"	9"	12"
1.6mm	[.062"]	gS 78.4080	gS 78.4085	gS 78.4090	gS 78.4100	gS 78.4110

Double Diamond		Smooth				
						
diameter		4"	5"	6"	9"	12"
0.7mm	[.028"]	gS 78.3000	gS 78.3050	gS 78.1300	gS 78.3100	gS 78.3200
0.9mm	[.035"]	gS 78.3010	gS 78.3060	gS 78.1310	gS 78.3110	gS 78.3210
1.1mm	[.045"]	gS 78.3020	gS 78.3070	gS 78.1320	gS 78.3120	gS 78.3220
1.4mm	[.054"]	gS 78.3030	gS 78.3080	gS 78.1340	gS 78.3140	gS 78.3230
1.6mm	[.062"]	gS 78.3040	gS 78.3090	gS 78.1330	gS 78.3130	gS 78.3240

Single Diamond		Smooth / Round End				
						
diameter		4"	5"	6"	9"	12"
0.7mm	[.028"]	gS 78.3300	gS 78.3341	gS 78.3350	gS 78.3400	gS 78.3500
0.9mm	[.035"]	gS 78.3310	gS 78.3342	gS 78.3360	gS 78.3410	gS 78.3510
1.1mm	[.045"]	gS 78.3320	gS 78.3344	gS 78.3370	gS 78.3420	gS 78.3520
1.4mm	[.054"]	gS 78.3330	gS 78.3346	gS 78.3380	gS 78.3440	gS 78.3525
1.6mm	[.062"]	gS 78.3340	gS 78.3348	gS 78.3390	gS 78.3430	gS 78.3530

An internal fixation device, such as the K-wires, Steinmann Pins and cerclage wires shown in this brochure, must never be reused. They are intended for single use only.

Stainless Steel Kirschner Wires


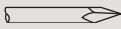

6 wires per package
non-sterile




Precision ground from certified implant stainless steel.

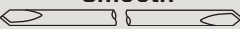


Smooth tapered points are expertly machined for easier penetration.

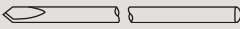


Please inquire about the availability of any size and style not shown on this page.

stainless steel steinmann pins - 23

Double Trocar		Smooth		Full Thread
				
diameter		9"	12"	9"
2.0mm	[.079"]	gS 78.5500	gS 78.5720	gS 78.8500
2.4mm	[.094"]	gS 78.5530	gS 78.5724	gS 78.8530
2.8mm	[.110"]	gS 78.5560		gS 78.8560
3.2mm	[.126"]	gS 78.5590		gS 78.8590
3.5mm	[.138"]	gS 78.5620		gS 78.8620
4.0mm	[.157"]	gS 78.5650		gS 78.8650
4.5mm	[.177"]	gS 78.5680		gS 78.8680
6.35mm	[.250"]	gS 78.5698		

Single Trocar / Round End		Smooth		Threaded
				
diameter		9"	12"	9"
2.0mm	[.079"]	gS 78.6100	gS 78.5820	gS 78.8700
2.4mm	[.094"]	gS 78.6130	gS 78.5824	gS 78.8730
2.8mm	[.110"]	gS 78.6160		gS 78.8760
3.2mm	[.126"]	gS 78.6190	gS 78.7800	gS 78.8780
3.5mm	[.138"]	gS 78.6220		gS 78.8820
4.0mm	[.157"]	gS 78.6250	gS 78.7940	gS 78.8850
4.5mm	[.177"]	gS 78.6280		gS 78.8880
6.35mm	[.250"]	gS 78.6288		

Double Diamond		Smooth		Full Thread
				
diameter		9"		9"
2.0mm	[.079"]	gS 78.7000		gS 78.8300
2.4mm	[.094"]	gS 78.7030		gS 78.8330
2.8mm	[.110"]	gS 78.7060		gS 78.8360
3.2mm	[.126"]	gS 78.7090		gS 78.8390
3.5mm	[.138"]	gS 78.7120		gS 78.8420
4.0mm	[.157"]	gS 78.7150		gS 78.8450
4.5mm	[.177"]	gS 78.7180		gS 78.8480

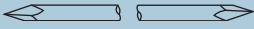
Single Diamond / Round End		Smooth		Threaded
				
diameter		9"		9"
2.0mm	[.079"]	gS 78.7780		gS 78.8000
2.4mm	[.094"]	gS 78.7630		gS 78.8030
2.8mm	[.110"]	gS 78.7660		gS 78.8060
3.2mm	[.126"]	gS 78.7690		gS 78.8090
3.5mm	[.138"]	gS 78.7720		gS 78.8120
4.0mm	[.157"]	gS 78.7750		gS 78.8150
4.5mm	[.177"]	gS 78.7782		gS 78.8180

An internal fixation device, such as the K-wires, Steinmann Pins and cerclage wires shown in this brochure, must never be reused. They are intended for single use only.

**Stainless Steel
Steinmann Pins**
6 wires per package
non-sterile

Precision ground from certified implant stainless steel.
Smooth tapered points are expertly machined for easier penetration.
Please inquire about the availability of any size and style not shown on this page.

24 - titanium k-wires, cerclage wires and measuring

Double Trocar	Smooth			
	diameter		4"	6"
	0.6mm	[.024"]	gS 79.2106	gS 79.2306
	1.0mm	[.039"]	gS 79.2110	gS 79.2310
	1.2mm	[.047"]	gS 79.2112	gS 79.2312
	1.5mm	[.059"]	gS 79.2115	gS 79.2315
	1.6mm	[.062"]	gS 79.2116	gS 79.2316
	1.8mm	[.070"]	gS 79.2118	gS 79.2318

- Titanium K-wires are lightweight and have a high tensile strength especially useful under repeated load stresses and capable of withstanding strain during internal fixation.
- Titanium is non-magnetic, biocompatible, and corrosion resistant.

An internal fixation device, such as the K-wires, Steinmann Pins and cerclage wires shown in this brochure, must never be reused. They are intended for single use only.

Titanium

Kirschner Wires
1 wire per package
non-sterile

Precision ground from certified implant titanium.
Smooth tapered points are expertly machined for easier penetration.
Please inquire about the availability of any size and style not shown on this page.

An internal fixation device, such as the K-wires, Steinmann Pins and cerclage wires shown in this brochure, must never be reused. They are intended for single use only.

	diameter	gauge
gS 79.2002	0.2mm	36
gS 79.2003	0.3mm	30
gS 79.2004	0.4mm	27
gS 79.2005	0.5mm	25
gS 79.2006	0.6mm	23
gS 79.2007	0.7mm	22
gS 79.2008	0.8mm	21
gS 79.2009	0.9mm	20
gS 79.2010	1.0mm	19
gS 79.2012	1.2mm	18
gS 79.2015	1.5mm	17

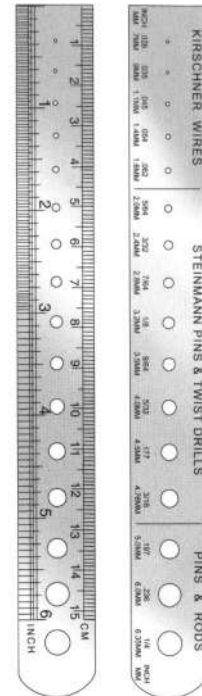


Indispensable tool for measuring k-wires, steinmann pins, rods, and drill bits.

Gauges from diameter 0.7mm to 6.35mm [.028" to 1/4"]

gS 74.7800 6 1/2"

K-Wire Ruler and Pin Gauge



Stainless Steel Cerclage Wires
1 roll per package
10 meters in length
non-sterile

gS 80.4909 9mm
gS 80.4914 14mm
gS 80.4916 16mm

Hudson Burrs
4"



gS 80.4909



gS 80.4914



gS 80.4916

Adson Burr
gS 80.0015 14mm

Cushing Flat Drill
gS 80.0214 14mm

McKenzie Twist Drill
gS 80.5113 13mm

Burrs and Drills
3 3/4"



gS 80.0015

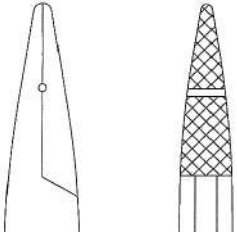


gS 80.0214



gS 80.5113

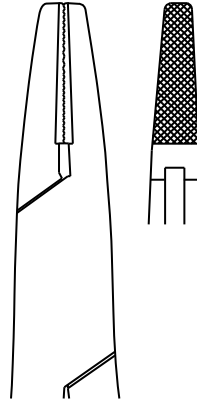
26 - pliers



For cerclage wire.

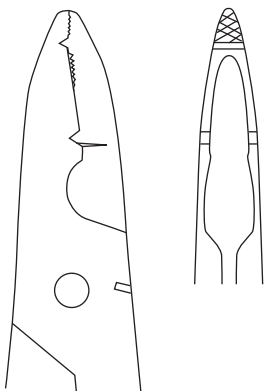
gS 81.3214 5 1/4"

Needle Nose Pliers
delicate with wire groove
tapers to 2mm tip



gS 81.3330 6 1/2"

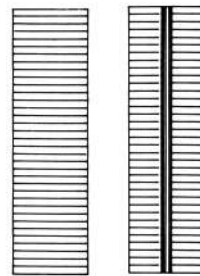
Universal Bending Pliers
TC serrated jaw
tapers to 3.5mm at tip



For cerclage wire.
max cap 20 gauge [0.9mm]

gS 81.3315 6"

**Wire Bending Pliers
with Cutter**
notched, serrated jaw



Parallel jaws with one
grooved side provides
extraordinary gripping
power.

gS 81.7040 7 1/4"

Parallel Pliers
10mm jaw



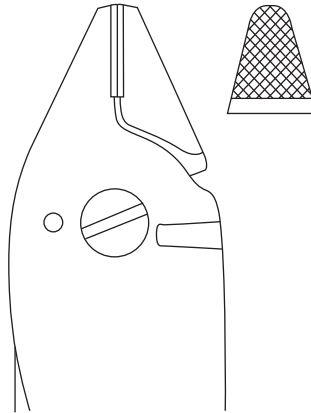
pliers and locking pliers - 27

3 functions in 1 versatile instrument.

- 1) Shears wires with ease and provides a clean cut without burrs or sharp edges.
- 2) Bends wires quickly and easily.
- 3) Cross serrated TC (tungsten carbide) inserts ensure a secure grip on wires for pulling.

Features:

- TC in jaws and cutter.
- Grooved handles are ergonomically designed for a comfortable and secure grip.
- Made from German stainless steel.



hole for wire shearing and bending

cross serrated TC inserts for wire bending and pulling

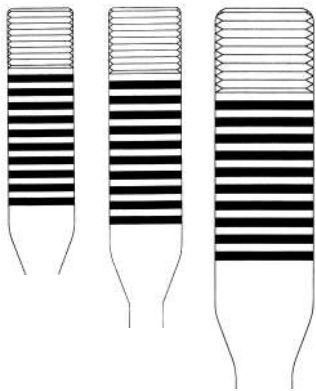
TC slot for wire shearing



gS 81.3380 8"

Wire Bending Pliers with Cutter

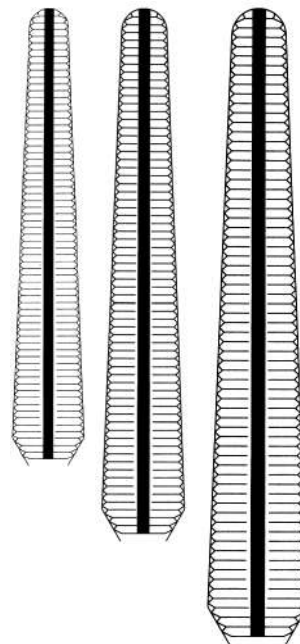
TC jaw and cutter
max cap 2.0mm [.079"]



- Heavy duty locking jaws.
- Crafted from German stainless steel.
- Reinforced side construction reduces play in jaws.
- Size of jaw opening is controlled by adjustment screw.
- Self-locking lever with one-handed release.

gS 81.7070 7" small
gS 81.7080 8" medium
gS 81.7095 9 1/2" large

Locking Pliers

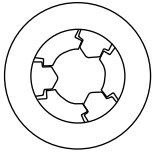


gS 81.7108 8 1/2" small
gS 81.7110 10" medium
gS 81.7112 12" large

Needle Nose Locking Pliers



28 - wire and pin management



Keyless chuck for insertion and removal of Steinmann pins.

Cannulation max cap: 6.0mm
Chuck max cap: 6.1mm

gS 82.0020 5" reverse lock

Universal Chuck
cannulated



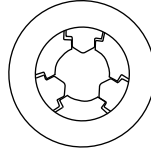
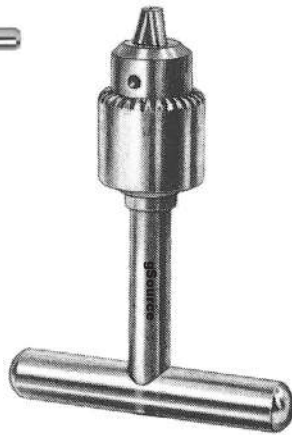
Chuck for insertion and removal of Steinmann pins includes separate chuck key.

Cannulation max cap: 5.0mm
Chuck max cap: 7.0mm



gS 82.4740 4" chuck with key
gS 82.4741 key only

Steinmann Pin Chuck
cannulated, with key



Keyless chuck for insertion and removal of Steinmann pins.

Cannulation max cap: 5.0mm
Chuck max cap: 6.1mm

gS 82.0030 5 1/4"

Universal Chuck
cannulated



Chuck for insertion and removal of Steinmann pins includes separate chuck key.

Cannulation max cap: 4.0mm
Chuck max cap: 7.0mm

Biocompatible silicone handle helps to prevent slippage and provide a secure grip.



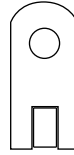
gS 82.4731 black
gS 82.4732 blue
gS 82.4733 red
gS 82.4734 green
gS 82.4735 yellow
gS 82.4736 orange
gS 82.4737 grey

gSilicone Steinmann Pin Chuck
4", cannulated, with key
silicone handle



wire and pin management - 29

OD = Outside Diameter



gS 82.0050 4 3/4"

Manual Pin Driver
for max OD 3.0mm [.118"] pins
knurled handle

Helps to provide stability and control when inserting or extracting pins with diameters ranging from 1.5mm to 3.5mm.

gS 82.0230 5 1/2"

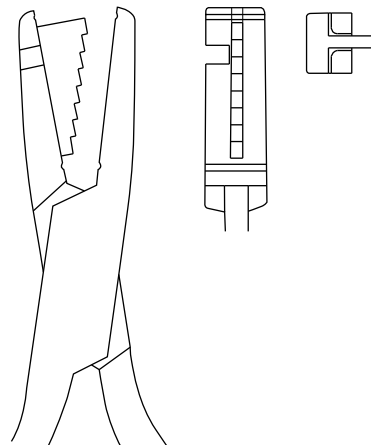
gPin Puller, Universal
for max OD 3.5mm [.138"] pins
grip handle



Bending aid for pins and wires.

gS 82.4760 6"

Wire and Pin Bender
max cap 3.2mm [.126"]



gS 82.1050 5 1/2"

Seven Step Wire Bender
max cap 1.1mm [.045"] wire or
19 gauge [1.0mm] cerclage wire



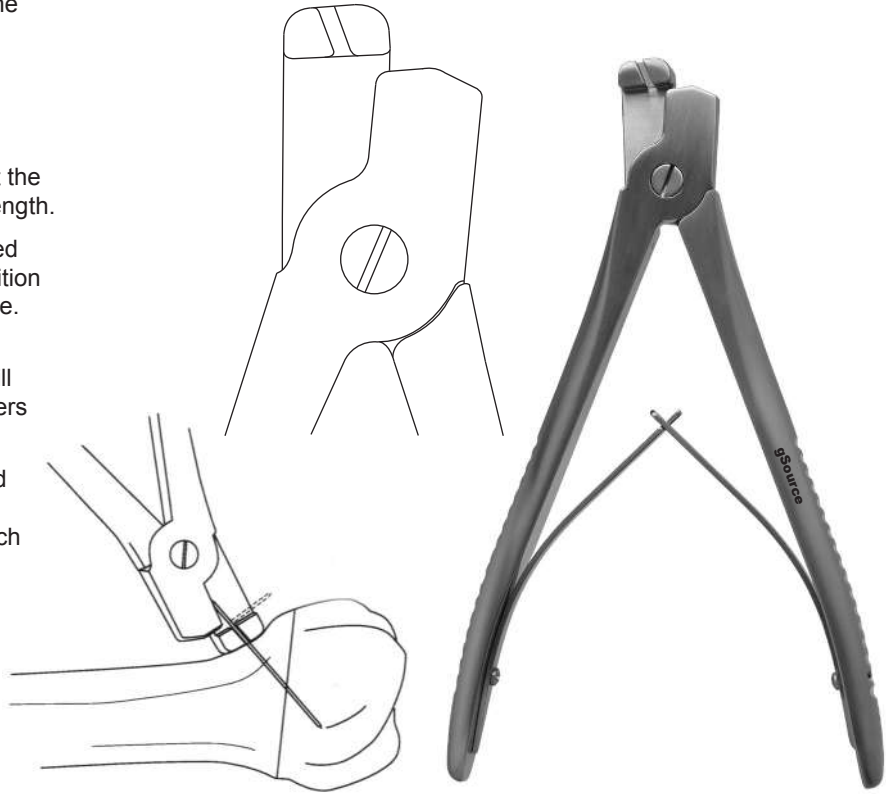
30 - wire and plate management

Stabilize and bend k-wire at the same time with one instrument.

- one-handed operation
- bends wire close to the bone

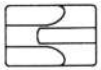
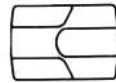
To bend wire:

1. After inserting a k-wire in the bone, cut the wire leaving a piece of 1/2" to 3/4" in length.
2. Insert the piece of k-wire into the angled slot on working end of bender and position bender as close to the bone as possible.
3. Press handle together to bend the k-wire. Wire diameter 1.6mm [.062"] will bend 90 degrees while smaller diameters will bend slightly less than 90 degrees.
4. For flush bending of 1.1mm [.045"] and 1.6mm [.062"] k-wire, the two angled cannulations at the proximal end of each handle are useful.



gS 82.2016 7 1/2"

Gratloch Wire Bender
max cap 1.6mm [.062"]



Bends k-wire up to 1.1mm [.045"] to 90° angle.

gS 82.1014 5"

K-Wire and Plate Bender
max cap 1.1mm [.045"]



Bends k-wire up to 1.6mm [.062"] to 90° angle.

gS 82.1020 5 1/2"

K-Wire and Plate Bender
max cap 1.6mm [.062"]



gS 82.0172 4 3/4"

Mini Plate Bending Iron
for 1.5mm/2.0mm plates



gS 82.0174 and gS 86.0176
are sold separately and used
in pairs with each other.

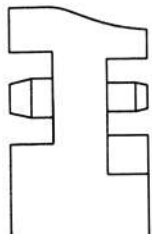
For plates
gS 82.0174 2.7mm/3.5mm
gS 82.0176 3.5mm/2.7mm

Small Plate Bending Iron
5 1/2"



gS 82.0174

gS 82.0176



gS 82.0182 7 3/4"

Plate Bending Iron
for 3.5mm/4.5mm plates



gS 82.0980 5 1/2"

Plate Bending Pliers
for 2.0mm plates



32 - plate management

gS 82.0315 8 1/2"

Plate Bending Pliers
for 1.6mm plates



gS 82.0298 9 1/2"

Plate Bending Pliers
for 2.8mm plates



gS 82.0303



gS 82.0304

Includes two anvils
for narrow and
wide plates.

gS 82.0302 10"

gS 82.0303 wide anvil only

gS 82.0304 narrow anvil only

Plate Bending Pliers
for straight plates



gS 82.0300 10"

Plate Bending Pliers
for reconstruction plates
max cap 12mm x 2.5mm





gS 82.0292

Includes anvil.

gS 82.0290 16"
gS 82.0292 anvil only

Plate Bending Press
table top
for plates up to 4.5mm [.177"]



gS 82.0282

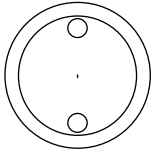
Includes anvil.

gS 82.0280 12"
gS 82.0282 anvil only

Plate Bending Press
table top
for plates up to 2.5mm [.098"]



34 - wire management



For twisting cerclage wire.

Biocompatible silicone handle helps to prevent slippage and provide a secure grip.

gS 82.4200 6 1/2"

gWire Twister

max cap 17 gauge [1.5mm]
silicone handle, green

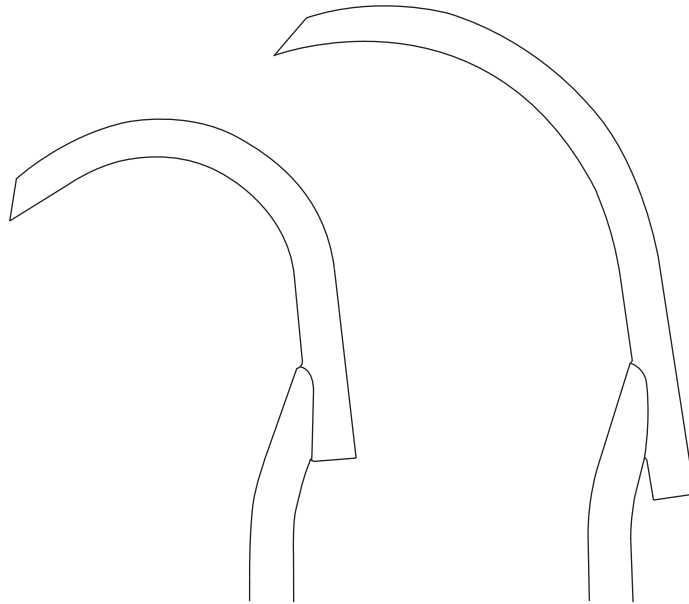


Double wire tightener.

gS 82.4150 9 1/2"

Wire Tightener

two turning screws, phenolic handle
max cap 18 gauge [1.2mm] cerclage wire



gS 82.4870

gS 82.4890

gS 82.4870 8 1/2" 45mm

gS 82.4890 9 1/2" 70mm

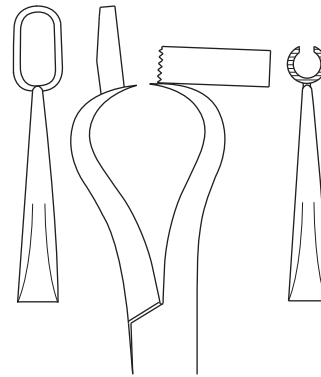
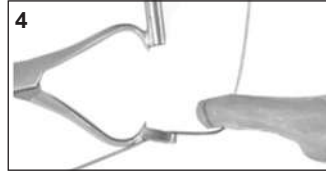
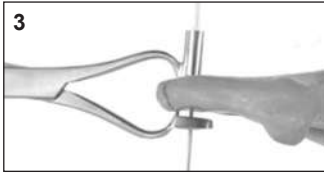
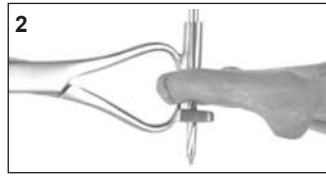
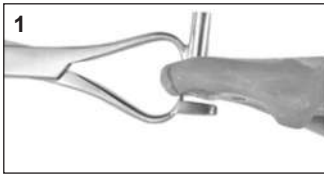
Wire Passer

max cap 11 gauge [3.0mm] cerclage wire
phenolic handle



wire management and wire cutters - 35

OD = Outside Diameter

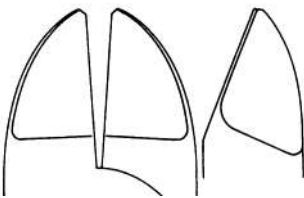


- 1-2. Serrated end of drill guide helps with fixation of drill hole positioning and provides soft tissue protection during drilling.
3. Drill guide also helps to guide cerclage wire through the hole and into the fenestrated loop on the other side.
4. After wire passes through fenestrated loop, forceps are opened and wire can be easily pulled up from other side.

gS 82.4970 6"

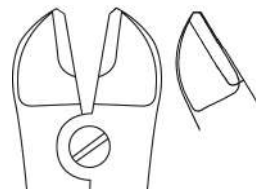
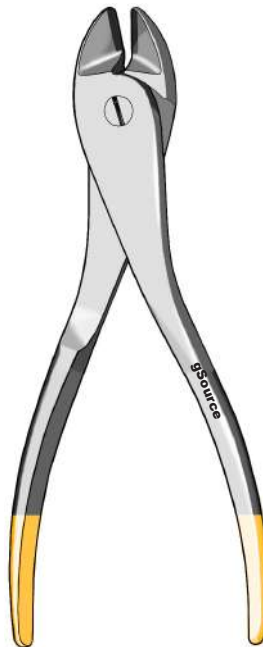
gWire Passer and Retriever Forceps
with drill guide for max OD 3.0mm drill bit
max cap 17 gauge [1.5mm] cerclage wire

DA = Double Action
TC = Tungsten Carbide



gS 83.7226 7"

Wire Side Cutter
TC inserts
max cap 1.6mm [.062"]



gS 83.7230 7"

Wire Side Cutter DA Angled
TC inserts
max cap 1.6mm [.062"]



36 - wire and pin cutters

DA = Double Action
TC = Tungsten Carbide

Designed with safety and ease in mind.

The gSource Flush End and Side Wire Cutter with tungsten carbide and silicone inserts can help prevent a cut piece of wire from being projected into the air or falling into the wound site.

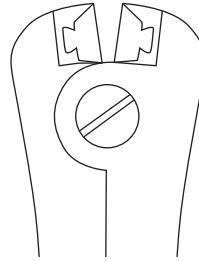
- Silicone inserts are designed to hold the remnant piece of wire for safe disposal after cutting.
- Improved design of tungsten carbide (TC) jaws cuts wire flush to the bone.
- Maximum leverage is achieved with the combined double action and leaf spring design. Provides a smooth and easy cutting action.
- End and side cutting jaws.
- Grooved handles provide a secure grip.
- Silicone inserts are suitable for use in manufacturing of medical devices. They are autoclavable and replaceable.

gS 83.8450 7"

gS 83.8451 replacement silicone inserts (pair)

Wire End and Side Flush Cutter with Silicone Inserts DA

TC inserts
max cap 1.6mm [.062"]



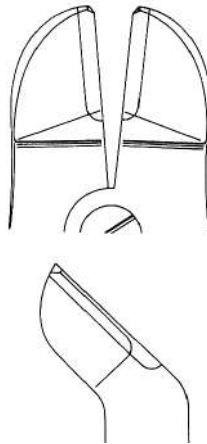
- Silicone inserts are designed to hold the remnant piece of wire for safe disposal after cutting.
- Double action provides smooth cutting action.
- End and side cutting jaws.
- Grooved handles provide a secure grip.
- Silicone inserts are suitable for use in manufacturing of medical devices. They are autoclavable and replaceable.



gS 83.8400 7"

gS 83.8401 replacement silicone inserts (pair)

Wire End and Side Cutter with Silicone Inserts DA
max cap 1.6mm [.062"]



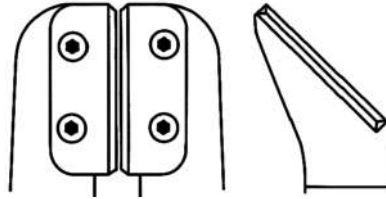
gS 83.7240 9"

Wire Side Cutter DA Angled
TC inserts
max cap 2.4mm [.079"]



DA = Double Action
TC = Tungsten Carbide

- Strong, lightweight design requires less strength than regular double action cutters.
- Titanium Nitride (TiN) coated TC inserts are harder and last longer than uncoated TC.
- Angled cutting edge.
- Silicone inserts hold remnant wire securely, helps prevent flying pieces.



gS 83.7900 9"

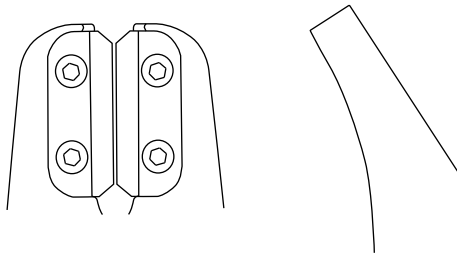
gS 83.7901 TC insert replacement kit includes: inserts (2), screws (4) and wrench (1)

gS 83.7902 silicone insert replacement kit includes: inserts (2), screws (2) and screwdriver (1)

Hercules Pin Side Cutter with Silicone Inserts DA Angled

TiN coated TC inserts
max cap 3.0mm [.118"]

- For cutting Ti (Titanium) Alloy pins.
- Strong, lightweight design requires less strength than regular double action cutters.
- Angled cutting edge.
- Silicone inserts hold remnant wire securely, helps prevent flying pieces.



gS 83.7903 9"

gS 83.7904 TC insert replacement kit includes: inserts (2), short screws (2), long screws (2) and wrench (1)

gS 83.7902 silicone insert replacement kit includes: inserts (2), screws (2) and screwdriver (1)

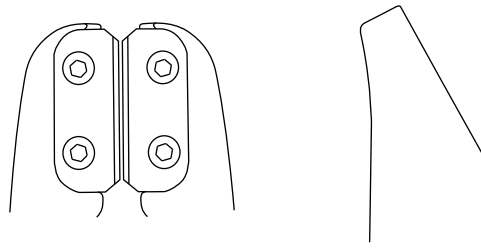
Hercules Pin Side Cutter with Silicone Inserts DA Angled

TC inserts
max cap 3.0mm [.118"] Ti Alloy pins

38 - wire, pin and plate cutters

DA = Double Action
TC = Tungsten Carbide

- Strong, lightweight design requires less strength than regular double action cutters.
- Angled cutting edge.
- Silicone inserts hold remnant wire securely, helps prevent flying pieces.



gS 83.7911 11"

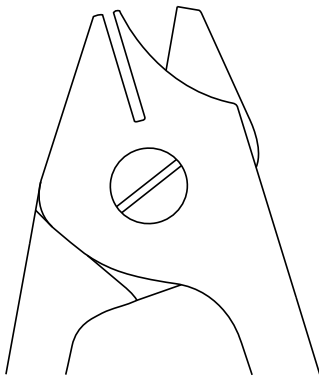
gS 83.7912 TC insert replacement kit includes: inserts (2), screws (4) and wrench (1)

gS 83.7902 silicone insert replacement kit includes: inserts (2), screws (2) and screwdriver (1)

Hercules Wire Cutter with Silicone Inserts DA Angled

TC inserts

max cap 2.5mm-3.5mm [.098"-.138"]



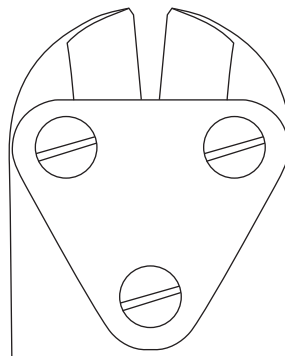
tip detail
not to scale

For mini plates.

gS 83.8800 9"

Plate Side Cutter

max cap 1.0mm [.040"]



Double action delivers power to the cutter.

Side cutting jaws for mini plates.

gS 83.8900 9"

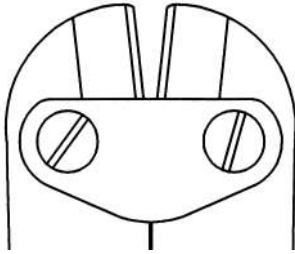
Plate Side Cutter DA

max cap 1.0mm [.040"]



pin cutters, pin shears and cable cutter - 39

DA = Double Action

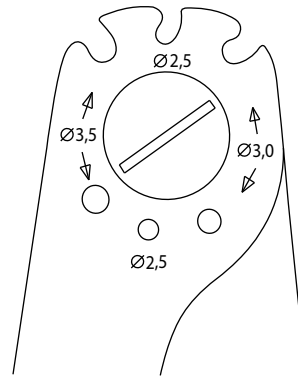
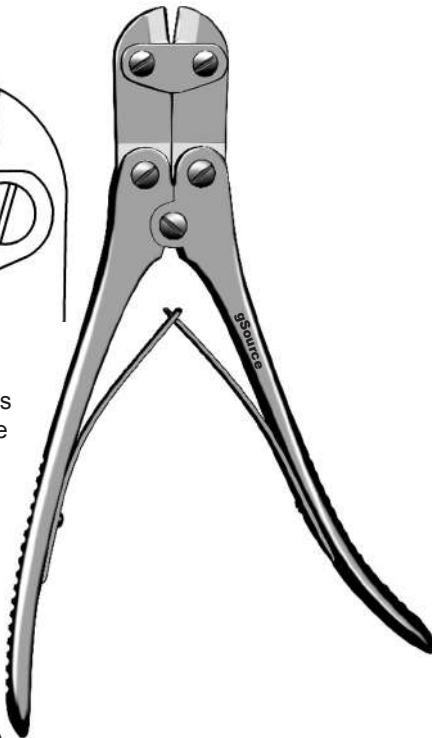


Double action delivers power to this versatile cutter.

Side cutting jaws for pins.

gS 83.9000 9 1/2"

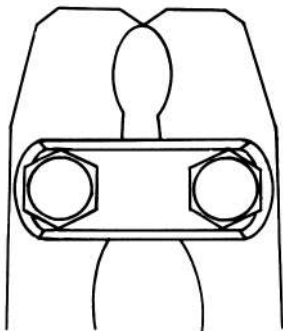
Pin Side Cutter DA
max cap 3.2mm [.126"]



- Shear 3 different pin diameters with 1 instrument.
- Provides a clean cut without burrs or sharp edges.
- Grooved handles are ergonomically designed for a comfortable and secure grip.
- Double action design allows for ease in cutting.

gS 83.9135 11 1/2"

Pin Shears DA
for 2.5mm [.098"], 3.0mm [.118"], 3.5mm [.138"] pins



gS 83.7320 10"

Pin End Cutter DA
max cap 3.0mm [.118"]



- Cuts cables cleanly and completely.
- Angled tungsten carbide jaws cut all cable strands with one clean cut.
- Handle design provides comfort and control.
- Small jaw allows surgeon to get close to the bone.
- Ball spring provides a smooth and strong return.

gS 83.9950 7"

Cable Cutter
max cap 2.0mm [.079"] cable



40 - tap and drill sleeves

gS 86.2545 4 1/2" for 3.2mm drill bit
gS 86.2550 5 1/2" with protective sleeve for 4.5mm tap

Tap Sleeve
 serrated end



gS 86.2545 gS 86.2550

gS 86.2558 4 1/2" with 40mm guide for 3.2mm drill bit for round hole and semi-tubular plates

gS 86.2560 5" with 60mm guide for 3.2mm drill bit for round hole plates

Drill Sleeve

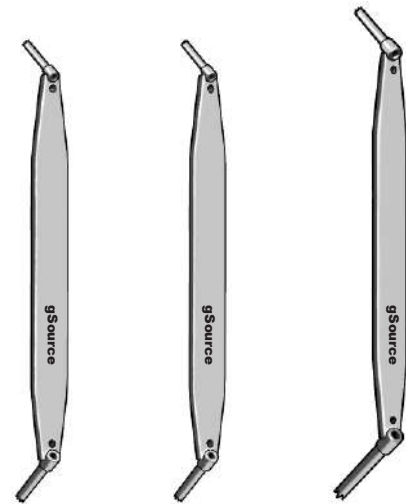


gS 86.2558

Used with drills and taps to place accurate holes and protect tissue. Serrated ends of both sleeves allow precise placement and help prevent slipping off bone.

	Drill Bits	Tap for Cortical Screws
gS 86.2500	1.1mm and 1.5mm	1.5mm
gS 86.2502	1.5mm and 2.0mm	2.0mm
gS 86.2503	2.0mm and 2.7mm	2.7mm

Double Drill Sleeve



gS 86.2500
4 3/4"

gS 86.2502
4 3/4"

gS 86.2503
5"

drill sleeves and guides - 41

	Drill Bits	Tap for Cortical Screws	Tap for Cancellous Screws
gS 86.2504	2.5mm and 3.5mm	3.5mm	4.0mm
gS 86.2505	3.2mm and 4.5mm	4.5mm	4.5mm (malleolar)
gS 86.2506	3.2mm	6.5mm	6.5mm

Double Drill Sleeve



Drill guides are color coded
green = neutral
gold = load

	Drill Bits	Screws
gS 86.2580	1.5mm	2.0mm cortical
gS 86.2582	2.0mm	2.7mm cortical
gS 86.2584	2.5mm	3.5mm cortical
gS 86.2586	3.2mm	4.5mm cortical/malleolar

Double Drill Guide
with neutral and load end



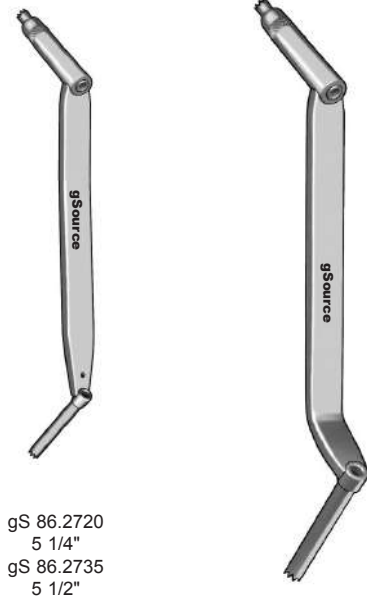
42 - drill sleeves and guides

Drill guides are color coded
green = neutral
gold = load



	Drill Bits	Cortical Screws
gS 86.2635	2.5mm	3.5mm
gS 86.2645	3.2mm	4.5mm

Double Drill Guide
dual compression
with neutral and load end



	Drill Bits	Cortical Screws
gS 86.2720	2.0mm	2.7mm
gS 86.2735	2.5mm	3.5mm
gS 86.2745	3.2mm	4.5mm

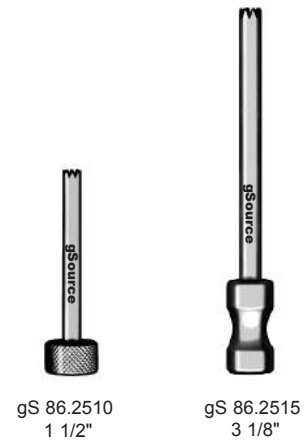
Universal Drill Guide

gS 86.2745
7"

With 3 holes and 1 hole for parallel drill bit and K-Wire placement.

gS 86.2507 4 1/2"

Parallel Drill Guide and Sleeve
for 2.0mm drill bit
and 2.7mm cortical screws



	Drill Bit	Screws
gS 86.2510	2.5mm	3.5mm
gS 86.2515	3.2mm	4.5mm

Insert Drill Sleeve
serrated tips

drill guides and bits - 43

gS 86.2945 6"

Pointed Drill Guide
for 4.5mm cortical screws



Drill Bit
gS 86.2675 3.3/3.3mm
gS 86.2685 3.8/3.8mm
Double Drill Guide
 7 1/2"



gS 86.2675

gS 86.2685

FL = Flute Length
 OAL = Overall Length
 OD = Outside Diameter
 SQC = Small Quick Coupling
 TiN = Titanium Nitride

	OD	OAL	FL
gS 86.8211	1.1mm*	60mm	13mm
gS 86.8215	1.5mm*	85mm	18mm
gS 86.8216	1.5mm	110mm	18mm
gS 86.8220	2.0mm*	100mm	22mm
gS 86.8221	2.0mm	125mm	22mm
gS 86.8222	2.2mm*	110mm	32mm
gS 86.8224	2.5mm	110mm	30mm
gS 86.8226	2.5mm*	110mm	32mm
gS 86.8225	2.5mm	180mm	32mm
gS 86.8227	2.7mm	100mm	29mm
gS 86.8228	2.7mm*	125mm	29mm
gS 86.8232	3.2mm	145mm	48mm
gS 86.8233	3.2mm	195mm	50mm
gS 86.8235	3.5mm*	110mm	42mm
gS 86.8236	3.5mm	195mm	50mm
gS 86.8240	4.0mm	195mm	40mm
gS 86.8245	4.5mm	145mm	50mm
gS 86.8246	4.5mm	195mm	50mm

TiN coated

*Fits in gS 98.8178 gRack, SQC Twist Drill – see page 60.

- Drill bits with quick coupling ends
- Designed to fit quick coupling handles gS 86.0040, gS 86.0045, gS 86.0050 and power adaptor gS 86.1002



gS 86.8225

SQC Drill Bits

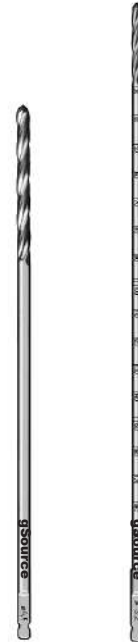
44 - drill bits

FL = Flute Length
 ID = Inside Diameter
 OAL = Overall Length
 OD = Outside Diameter
 SQC = Small Quick Coupling

- Drill bits with quick coupling ends
- Designed to fit quick coupling handles gS 86.0040, gS 86.0045 gS 86.0050 and power adaptor gS 86.1002
- gS 86.8725 and gS 86.8732 have calibration lines.
- gS 86.8765 does not have calibration lines.

	OD	OAL	FL
gS 86.8725	2.5mm	230mm	30mm
gS 86.8732	3.2mm	230mm	30mm
gS 86.8765	4.5mm	195mm	45mm

SQC Drill Bits
 3 fluted



gS 86.8765 gS 86.8725
 gS 86.8732



gS 86.8945
 4 flutes

	OAL	FL	OD	Max ID	# Flutes
gS 86.8827	6"	20mm	2.0mm	1.00mm	3
gS 86.8832	6 1/2"	40mm	3.2mm	1.75mm	4
gS 86.8835	6"	35mm	3.5mm	1.30mm	4
gS 86.8845	6 1/2"	45mm	4.5mm	1.75mm	4
gS 86.8945	9"	40mm	4.5mm	2.05mm	4

SQC Drill Bits
 cannulated



gS 86.8827 gS 86.8832
 3 fluted 4 fluted

drill and screwdriver bits - 45

FL = Flute Length
 ID = Inside Diameter
 OAL = Overall Length
 OD = Outside Diameter

*Fits in gS 98.8127 Twist
 Drill Rack - see page 61.

	OD	OAL	FL
gS 86.8410	1.0mm	55mm	26mm
gS 86.8412	1.0mm	127mm	20mm
gS 86.8415	1.5mm*	127mm	17mm
gS 86.8420	2.0mm*	127mm	23mm
gS 86.8424	2.4mm	127mm	22mm
gS 86.8425	2.5mm*	127mm	22mm
gS 86.8427	2.7mm*	127mm	30mm
gS 86.8432	3.2mm*	127mm	42mm
gS 86.8435	3.5mm*	127mm	42mm
gS 86.8440	4.0mm*	127mm	45mm
gS 86.8445	4.5mm*	127mm	34mm
gS 86.8448	4.7mm*	127mm	34mm
gS 86.8450	5.0mm*	127mm	42mm
gS 86.8460	6.0mm	127mm	37mm
gS 86.8532	3.2mm	180mm	70mm
gS 86.8535	3.5mm	180mm	70mm
gS 86.8545	4.5mm	180mm	70mm
gS 86.8560	6.0mm	180mm	70mm



gS 86.8645



	OD	Max ID	FL
gS 86.8620	2.0mm	1.2mm	25mm
gS 86.8627	2.7mm	1.3mm	25mm
gS 86.8635	3.5mm	1.8mm	35mm
gS 86.8640	4.0mm	2.0mm	35mm
gS 86.8645	4.5mm	2.1mm	40mm

Twist Drill Bits

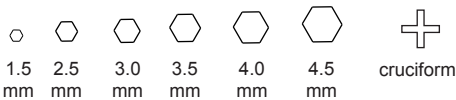
round end
 for power drills

gDrill Bits, Twist

5", cannulated
 4 fluted, round end
 for power drills

MQC = Mini Quick Coupling
 QC = Quick Connect
 SQC = Small Quick Coupling

*Fits gS 98.4050 gRack, Screwdriver
 Bits SQC – see page 60.



	OAL	Style	QC style	Holding Sleeve
gS 86.1502	2"	1.5mm Hex	MQC	gS 86.4371
gS 86.1504	2 1/2"	cruciform	MQC	gS 86.4371
gS 86.1915	3 1/2"	1.5mm Hex*	SQC	none
gS 86.1505	4"	1.5mm Hex	SQC	gS 86.4373
gS 86.1925	3 1/2"	2.5mm Hex*	SQC	none
gS 86.1506	4"	2.5mm Hex	SQC	gS 86.4373
gS 86.1510	5 1/2"	2.5mm Hex	SQC	gS 86.4375
gS 86.1515	6 1/2"	2.5mm Hex	SQC	gS 86.4375
gS 86.1930	3 1/2"	3.0mm Hex	SQC	none
gS 86.1935	3 1/2"	3.5mm Hex*	SQC	gS 86.4373
gS 86.1519	4"	3.5mm Hex	SQC	none
gS 86.1521	6 1/2"	3.5mm Hex	SQC	gS 86.4380
gS 86.1940	3 1/2"	4.0mm Hex*	SQC	none
gS 86.1945	3 1/2"	4.5mm Hex	SQC	none



gS 86.1504 gS 86.1505 gS 86.1935 gS 86.1510 gS 86.1519 gS 86.1521
 gS 86.1506 with notch with notch

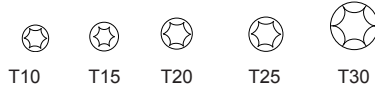
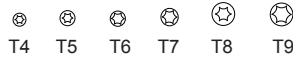
Screwdriver Bits

holding sleeve not included

46 - screwdriver bits and countersinks

MQC = Mini Quick Coupling
 OAL = Overall Length
 OD = Outside Diameter
 QC = Quick Connect
 SQC = Small Quick Coupling

*Fits gS 98.4050 gRack, Screwdriver
 Bits SQC – see page 60.



	Size
gS 86.1604	T4*
gS 86.1605	T5
gS 86.1606	T6
gS 86.1607	T7
gS 86.1608	T8*
gS 86.1609	T9
gS 86.1610	T10
gS 86.1715	T15*
gS 86.1720	T20
gS 86.1725	T25*
gS 86.1730	T30

- Design helps provide a uniform distribution of torque force which can lessen the chance of high stress to the working end of the bit and the screw head.
- Star shape profile has less of a surface-to-surface gap between the bit and the screw in comparison with hex profile. This results in a better force closure.
- No holding sleeve required.



Star Screwdriver Bits
 3 1/2"
 SQC

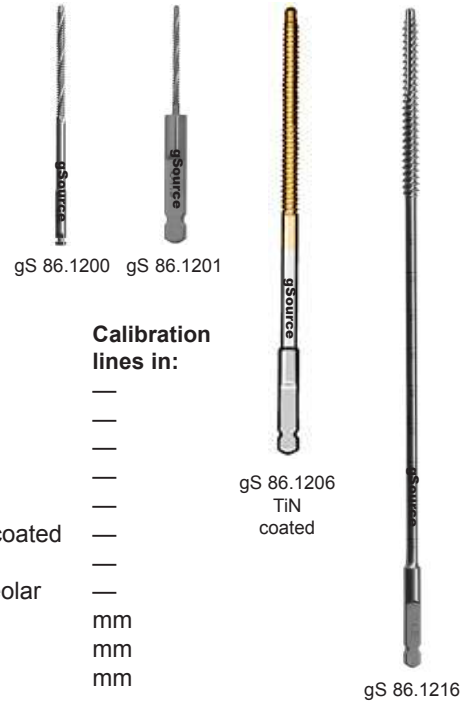
	OAL	QC Handle	Pilot OD	Screw Size
gS 86.1004	2 1/4"	MQC	1.1mm	1.5, 2.0mm
gS 86.1006	2 3/4"	SQC	2.0mm	2.7, 3.5, 4.0mm
gS 86.1010	4 1/2"	SQC	3.2mm	4.5mm malleolar
gS 86.1020	7"	T-Handle	4.3mm	4.5, 6.5mm



Countersinks

taps and quick coupling handles - 47

ID = Inside Diameter
 MQC = Mini Quick Coupling
 OAL = Overall Length
 QC = Quick Connect
 SQC = Small Quick Coupling
 TiN = Titanium Nitride



	OAL	Diameter	Pitch	QC Style	Screws	Calibration lines in:
gS 86.1200	2"	1.5mm	0.5mm	MQC	cortical	—
gS 86.1201	2"	1.5mm	0.6mm	SQC	cortical	—
gS 86.1202	2 1/4"	2.0mm	0.6mm	MQC	cortical	—
gS 86.1203	2 1/4"	2.0mm	0.6mm	SQC	cortical	—
gS 86.1204	4"	2.7mm	1.0mm	SQC	cortical	—
gS 86.1206	4 1/4"	3.5mm	1.25mm	SQC	cortical TiN coated	—
gS 86.1208	4 1/4"	3.5mm	1.75mm	SQC	cancellous	—
gS 86.1212	5"	4.5mm	2.0mm	SQC	cortical, malleolar	—
gS 86.1209	7"	3.5mm	1.25mm	SQC	cortical	mm
gS 86.1216	7"	4.5mm	1.80mm	SQC	cortical	mm
gS 86.1220	8"	6.5mm	2.70mm	SQC	cancellous	mm

Taps

*Fits gS 98.4050 gRack, Screwdriver
 Bits SQC – see page 60.

	OAL	QC Style
gS 86.0035	4 1/4"	MQC
gS 86.0040	4 1/2"	SQC, plastic handle, black
gS 86.0050	4 1/2"	SQC, plastic handle, black cannulated, max ID 2.4mm
gS 86.0045	3 1/2"	SQC T-Handle

Quick Coupling Handles



48 - screwdrivers

ID = Inside Diameter
OAL = Overall Length

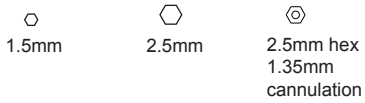


	OAL	Working End
gS 86.4550	6 3/4"	single slot
gS 86.4540	10"	single slot
gS 86.4420	7 1/2"	cruciform
gS 86.4560	10"	cruciform
gS 86.4580	10"	phillips



gS 86.4550 gS 86.4560 gS 86.4580

Screwdrivers
with phenolic handle



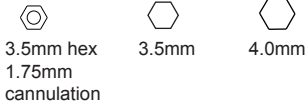
	OAL	Hex	Max ID	Holding Sleeve
gS 86.4395	7 3/4"	1.5mm	none	gS 86.4371
gS 86.4400	7 3/4"	2.5mm	none	gS 86.4373
gS 86.4410	7 3/4"	2.5mm	1.35mm	gS 86.4375, gS 86.4373
gS 86.4490	8 1/2"	2.5mm	none	gS 86.4375, gS 86.4373
gS 86.4500	10"	2.5mm	none	none
gS 86.4585	10 1/2"	2.5mm	none	gS 86.4375, gS 86.4373



gS 86.4395 plastic handle black
gS 86.4400 plastic handle black
gS 86.4410 with notch phenolic handle
gS 86.4490 with notch plastic handle black
gS 86.4500 phenolic handle
gS 86.4585 with notch phenolic handle

Hexagonal Screwdrivers

ID = Inside Diameter
OAL = Overall Length

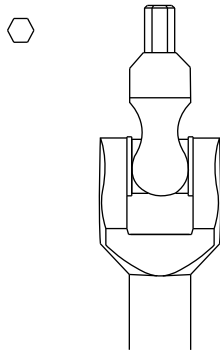


	OAL	Hex	Max ID	Holding Sleeve
gS 86.4495	8 3/4"	3.5mm	1.75mm	none
gS 86.4520	10"	3.5mm	none	none
gS 86.4590	10"	3.5mm	none	gS 86.4380
gS 86.4595	12"	3.5mm	none	gS 86.4380
gS 86.4530	10"	4.0mm	none	gS 86.4380

Hexagonal Screwdrivers



gS 86.4495 with notch phenolic handle cann.
gS 86.4520 plastic handle black
gS 86.4590 with notch plastic handle black
gS 86.4595 with notch plastic handle black
gS 86.4530 with notch phenolic handle



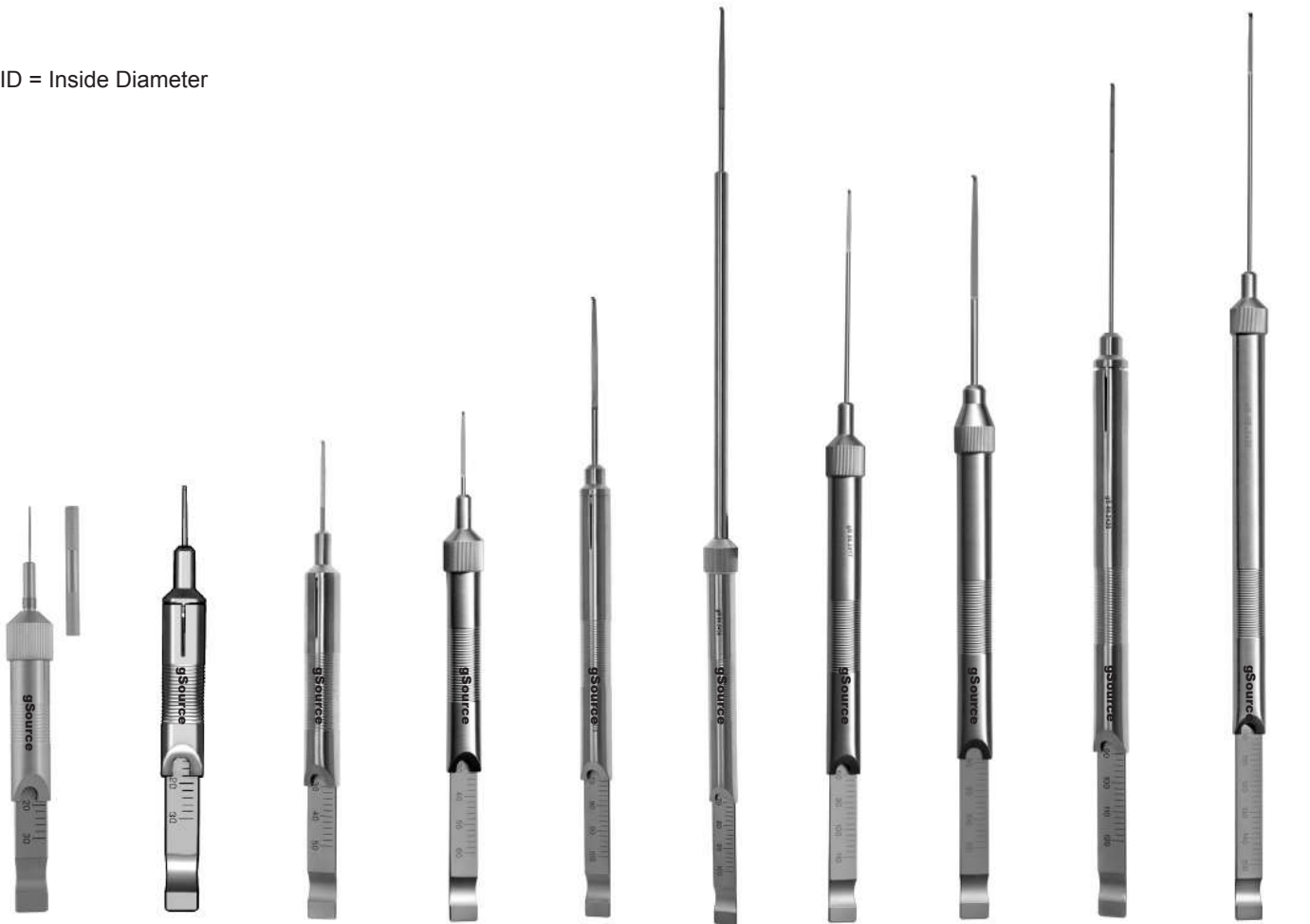
gS 86.9914 10"

gSilicone Cardan Joint Hexagonal Screwdriver
3.5mm hex
silicone handle, green



50 - depth gauges

ID = Inside Diameter



gS 86.2330 delicate with probe sleeve 4 3/4"
 gS 86.2405 4 3/4"
 gS 86.2410 6 1/2"
 gS 86.2413 7"
 gS 86.2415 9 1/2"
 gS 86.2430 15 1/2"
 gS 86.2417 10 1/2"
 gS 86.2418 10 1/2"
 gS 86.2420 11 1/2"
 gS 86.2425 13 1/2"

	Measures up to	Minimum ID of drill hole*	Cap Type
gS 86.2330	30mm	1.10mm	screw on
gS 86.2405	30mm	1.50mm	snap on
gS 86.2410	50mm	2.20mm	snap on
gS 86.2413	60mm	2.10mm	screw on
gS 86.2415	100mm	3.20mm	snap on
gS 86.2430	100mm	3.30mm	screw on
gS 86.2417	110mm	2.20mm	screw on
gS 86.2418	110mm	3.30mm	screw on
gS 86.2420	120mm	2.50mm	snap on
gS 86.2425	150mm	2.40mm	screw on

*Minimum ID of drill hole needed for use with depth gauge.

Depth Gauges
 disassemble for cleaning

screw holding sleeves and forceps, adaptor, tension - 51

OD = Outside Diameter
 SQC = Small Quick Coupling



- gS 86.4371** 1 1/2" for OD 3.5mm shafts
- gS 86.4373** 2" for OD 5.0mm shafts
- gS 86.4375** 3" for OD 5.0mm shafts with notch
- gS 86.4380** 5" for OD 7.0mm shafts with notch

Screw Holding Sleeves

Converts SQC end to round end with three flat sides for power drills.

gS 86.1002
Power Drill Adaptor
 2 1/2"



Useful for compression and distraction modes.

Used in conjunction with plates to close larger fracture or osteotomy gaps.

gS 86.7220 3 1/2" span 20mm

Tension Device articulated



For picking up screw from screw rack.

OD Screw Shaft
gS 86.6104 1.2mm
gS 86.6108 1.5mm-2.7mm
gS 86.6110 3.5mm-6.5mm

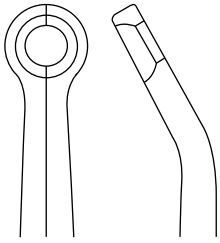
Screw Holding Forceps 3 1/2"



gS 86.6104 gS 86.6108
 gS 86.6110

52 - screw holding forceps, screw extractor, wrenches

OD = Outside Diameter
SQC = Small Quick Coupling
TiN = Titanium Nitride



gS 86.6155 7 1/2"
Screw Holding Forceps
angled, for OD 5.5mm
shaft bone screw



gS 87.0012 5 1/2"
Combination Wrench
11mm



gS 87.0014 7"
Socket Wrench
11mm
Cardan joint



gS 87.0200 8"
gExtractor, Screw
SQC, counter clockwise thread
TiN coated tip



ball spikes and spiked disc - 53

SQC = Small Quick Coupling

Useful for pushing bone fragments into place.

Designed to fit with SQC handles gS 86.0040, gS 86.0045, gS 86.0050 shown on page 47 and Spiked Disc gS 87.0022 shown on this page.



gS 87.2006 6 1/2"

Ball Spike SQC
sharp point
straight

Useful for pushing bone fragments into place.

Designed to fit with Spiked Disc gS 87.0022 shown on this page.



gS 87.0020 12"

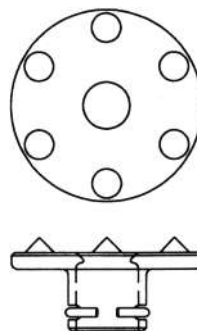
Ball Spike
sharp point
straight, phenolic handle

Attaches to the ball tip end of Ball Spikes gS 87.0020 and gS 87.2006 shown on this page.

Also attaches to the ball tip end of Pelvic Reduction Forceps gS 47.6190, gS 47.6192, gS 47.6196, gS 47.6200, gS 47.6204, gS 47.6208, gS 47.6300 and gS 47.6301 shown on pages 17-19.

Helps to disperse the force of the ball spike by providing a greater contact area, thereby reducing the risk of penetrating thin bone.

The disc swivels on the ball tip and the points help to reduce slippage and allow for improved alignment onto bone surface.



gS 87.0022 25mm

Spiked Disc
6 sharp points

Guide to Fracture Management Instruments

Type of Screw

Type of Screw	Cortical	Cortical	Cortical	Cortical fine thread	Cancellous coarse thread	Cancellous	Cortical	Malleolar	Cancellous	Cancellous
diameter	1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	4.0mm	4.5mm	4.5mm	6.5mm	6.5mm

Drill Bit for Gliding Hole



gS 86.8215	gS 86.8220	gS 86.8227	gS 86.8235	gS 86.8235	gS 86.8235	-	gS 86.8425	-	gS 86.8425	gS 86.8426
1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	3.5mm	None	4.5mm	None	4.5mm	For Shaft in Hard Bone 4.5mm

diameter

Drill Bit for Threaded Hole



gS 86.8211	gS 86.8215	gS 86.8220	gS 86.8226	gS 86.8226	gS 86.8220 or gS 86.8226	gS 86.8220 or gS 86.8226	gS 86.8232	gS 86.8232	gS 86.8232	gS 86.8232
1.1mm	1.5mm	2.0mm	2.5mm	2.5mm	2.0mm or 2.5mm	2.0mm or 2.5mm	3.2mm	3.2mm	3.2mm	3.2mm

diameter

Tap



gS 86.1200	gS 86.1202	gS 86.1204	gS 86.1206	gS 86.1208	gS 86.1208	gS 86.1208	gS 86.1208	gS 86.1212	gS 86.1220	gS 86.1220
1.5mm	2.0mm	2.7mm	fine thread 3.5mm	coarse thread 3.5mm	coarse thread 3.5mm	3.5mm	4.5mm	4.5mm	6.5mm	6.5mm

diameter

Countersink



gS 86.1004	gS 86.1004	gS 86.1006	gS 86.1006	gS 86.1006	gS 86.1006	gS 86.1006	gS 86.1020	gS 86.1010	gS 86.1020	gS 86.1020
1.1mm	1.1mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	4.5mm	3.2mm	4.5mm	4.5mm

diameter



Guide to Fracture Management Instruments

Type of Screw

Type of Screw	Cortical 1.5mm	Cortical 2.0mm	Cortical 2.7mm	Cortical fine thread 3.5mm	Cancellous coarse thread 3.5mm	Cancellous 4.0mm	Cortical 4.5mm	Malleolar 4.5mm	Cancellous 6.5mm	Cancellous 6.5mm
diameter										

Depth Gauge

gS 86.2330 gS 86.2405	gS 86.2330 gS 86.2405	gS 86.2410	gS 86.2410	gS 86.2410	gS 86.2410	gS 86.2410	gS 86.2415	gS 86.2415	gS 86.2415	gS 86.2415
30mm	30mm	50mm	50mm	50mm	50mm	50mm	100mm	100mm	100mm	100mm

scale

Quick Coupling Handle

gS 86.0035	gS 86.0035	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050	gS 86.0040 gS 86.0045 gS 86.0050
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Screwdrivers

gS 86.1502 gS 86.1504	gS 86.1502 gS 86.1504	gS 86.1506 gS 86.4400 gS 86.4410 gS 86.4500 gS 86.4580	gS 86.1506 gS 86.4400 gS 86.4410 gS 86.4500 gS 86.4580	gS 86.1506 gS 86.4400 gS 86.4410 gS 86.4500 gS 86.4580	gS 86.1506 gS 86.4400 gS 86.4410 gS 86.4500 gS 86.4580	gS 86.1519 gS 86.4495 gS 86.4520 gS 86.4590 gS 86.4595	gS 86.1519 gS 86.4495 gS 86.4520 gS 86.4590 gS 86.4595	gS 86.1519 gS 86.4495 gS 86.4520 gS 86.4590 gS 86.4595	gS 86.1519 gS 86.4495 gS 86.4520 gS 86.4590 gS 86.4595	gS 86.1519 gS 86.4495 gS 86.4520 gS 86.4590 gS 86.4595
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Driver Type

1.5mm Hex	1.5mm Hex	2.5mm Hex	2.5mm Hex	2.5mm Hex	2.5mm Hex	3.5mm Hex	3.5mm Hex	3.5mm Hex	3.5mm Hex	3.5mm Hex
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Cruciform



56 - containers

OAL = Overall Length
 OD = Outside Diameter
 QTY = Quantity

- Handy container to store and dispense K-wires and Steinmann pins.
- Each dispenser is clearly marked with the inch/mm OD of the wires/pins held for quick identification.
- Dispenser is perforated at one end.
- Conical shaped end dispenses one wire at a time.
- It is recommended to load blunt end first.
- Will only dispense smooth (unthreaded) wires and pins.

Dispensers store and dispense smooth (unthreaded) wires and pins only.

	OAL Dispenser	OAL Wire/Pin Stored	OD Wire/Pin Stored	Max Qty Stored - Not Dispensed	Max Qty Stored - Dispensed
gS 98.2002	6 3/4"	4", 5", and 6"	0.7mm [.028"]	120	24
gS 98.2003	6 3/4"	4", 5", and 6"	0.9mm [.035"]	78	18
gS 98.2005	6 3/4"	4", 5", and 6"	1.1mm [.045"]	54	18
gS 98.2007	6 3/4"	4", 5", and 6"	1.4mm [.054"]	30	18
gS 98.2009	6 3/4"	4", 5", and 6"	1.6mm [.062"]	24	18
gS 98.2011	13"	9" and 12"	0.9mm [.035"]	78	30
gS 98.2013	13"	9" and 12"	1.1mm [.045"]	54	24
gS 98.2015	13"	9" and 12"	1.4mm [.054"]	30	18
gS 98.2017	13"	9" and 12"	1.6mm [.062"]	24	18
gS 98.2019	13"	9" and 12"	2.0mm [.079"]	12	6
gS 98.2021	13"	9" and 12"	2.4mm [.094"]	12	6

gS 98.2018 replacement cap only, plastic, white

K-Wire and Pin Dispenser

stainless steel
 plastic cap, white



OAL = Overall Length
 OD = Outside Diameter
 QTY = Quantity

- Store and dispense four different wire diameters from one dispenser.
- Wires are dispensed one at a time.
- Can be closed when not in use.
- Chambers are clearly marked with mm/inch OD of the wires/pins held.
- Will only dispense smooth (unthreaded) wires and pins.

Dispensers store and dispense smooth (unthreaded) wires and pins only.

	OAL Dispenser	OAL Wire/Pin Stored	OD Wire/Pin Stored	Max Qty Stored - Not Dispensed	Max Qty Stored - Dispensed
gS 98.5210	5 1/2"	4"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
gS 98.5230	7 1/2"	6"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
gS 98.5240	10 1/2"	9"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
gS 98.5245	10 1/2"	9"	1.6mm [.062"]	18	6
			2.0mm [.079"]	12	6
			2.0mm [.079"]	12	6
			2.4mm [.094"]	6	6
gS 98.5250	13 1/2"	12"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
gS 98.5260	13 1/2"	12"	1.6mm [.062"]	18	6
			2.0mm [.079"]	6	6
			2.0mm [.079"]	6	6
			2.4mm [.094"]	8	5



gS 98.5210

gS 98.5240

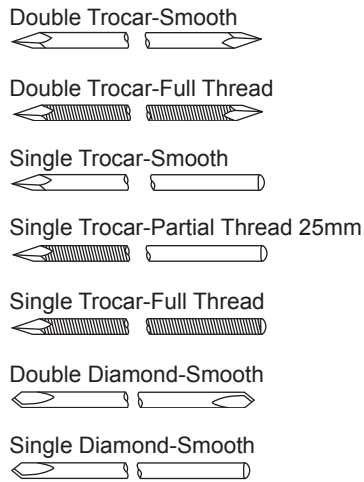
gS 98.5260

gS 98.5206 replacement cap only, plastic, white, screw on style

Four Chambered K-Wire and Pin Dispenser

stainless steel
 plastic screw on cap, white

58 - containers



K-Wires 4" - diameters					K-Wires 6" - diameters				
0.7mm [.028"]	0.9mm [.035"]	1.1mm [.045"]	1.4mm [.054"]	1.6mm [.062"]	0.7mm [.028"]	0.9mm [.035"]	1.1mm [.045"]	1.4mm [.054"]	1.6mm [.062"]
78.2000	78.2010	78.2020	78.2040	78.2030	78.1210	78.1220	78.1230	78.1240	78.1250
				78.4210					78.4230
78.2300	78.2310	78.2320	78.2330	78.2340	78.2800	78.2810	78.2820	78.2840	78.2850
				78.9110					78.9114
				78.4080					78.4090
78.3000	78.3010	78.3020	78.3030	78.3040	78.1300	78.1310	78.1320	78.1340	78.1330
78.3300	78.3310	78.3320	78.3330	78.3340	78.3350	78.3360	78.3370	78.3380	78.3390



gSource K-Wires are sold separately in non-sterile packages of 6 each. They are precision ground from certified implant stainless steel and have smooth tapered points which are expertly machined for easier penetration.

See above chart for quick reference or page 22 in this brochure. Please inquire about the availability of any size and style not shown.

Rack folds to close for convenient storage. When opened, it converts to a table top stand for use in the operating room.

Closed position for storage.
8 3/4" x 5 1/2" x 1 1/2"



Open position as a table top stand.
Loaded

gS 98.5404 8 3/4"
anodized aluminum

gRack, K-Wire
stores 4" and 6" k-wires, 6 each (sold separately)
0.7mm to 1.6mm [.028" to .062"]

	K-Wires 9" - diameters					Steinmann Pins 9" - diameters						
	0.7mm [.028"]	0.9mm [.035"]	1.1mm [.045"]	1.4mm [.054"]	1.6mm [.062"]	2.0mm [5/64"]	2.4mm [3/32"]	2.8mm [7/64"]	3.2mm [1/8"]	3.5mm [9/64"]	4.0mm [5/32"]	4.5mm [.177"]
Double Trocar-Smooth 	78.2105	78.2110	78.2120	78.2140	78.2130	78.5500	78.5530	78.5560	78.5590	78.5620	78.5650	78.5680
Double Trocar-Full Thread 					78.4030	78.8500	78.8530	78.8560	78.8590	78.8620	78.8650	78.8680
Single Trocar-Smooth 	78.2500	78.2510	78.2520	78.2540	78.2530	78.6100	78.6130	78.6160	78.6190	78.6220	78.6250	78.6280
Single Trocar-Threaded 					78.9116	78.8700	78.8730	78.8760	78.8780	78.8820	78.8850	78.8880
Double Diamond-Smooth 	78.3100	78.3110	78.3120	78.3140	78.3130	78.7000	78.7030	78.7060	78.7090	78.7120	78.7150	78.7180
Double Diamond-Full Thread 						78.8300	78.8330	78.8360	78.8390	78.8420	78.8450	78.8480
Single Diamond-Smooth 	78.3400	78.3410	78.3420	78.3440	78.3430	78.7780	78.7630	78.7660	78.7690	78.7720	78.7750	78.7782
Single Diamond-Threaded 						78.8000	78.8030	78.8060	78.8090	78.8120	78.8150	78.8180

gSource K-Wires are sold separately in non-sterile packages of 6 each. They are precision ground from certified implant stainless steel and have smooth tapered points which are expertly machined for easier penetration.

See above chart for quick reference or pages 22-23 in this brochure. Please inquire about the availability of any size and style not shown.

Rack folds to close for convenient storage. When opened, it converts to a table top stand for use in the operating room.

Closed position for storage.
12 1/2" x 5 1/2" x 1 1/2"



gS 98.5409 12 1/2"
anodized aluminum

gRack, K-Wire and Pin
stores 9" k-wires and pins, 6 each (sold separately)
0.7mm to 4.5mm [.028" to .177"]



Open position
as a table top
stand.
Loaded

60 - containers

OAL = Overall Length
 OD = Outside Diameter
 SQC = Small Quick Coupling

Rack folds to close for convenient storage. When opened, it converts to a table top stand for use in the operating room.

Rack stores 1 each of the following gSource part numbers:

SQC Handle	OAL
gS 86.0040 black plastic and stainless steel	4 1/2"

SQC Star Bits	Size	OAL
gS 86.1604	T4	3 1/2"
gS 86.1608	T8	3 1/2"
gS 86.1715	T15	3 1/2"
gS 86.1725	T25	3 1/2"

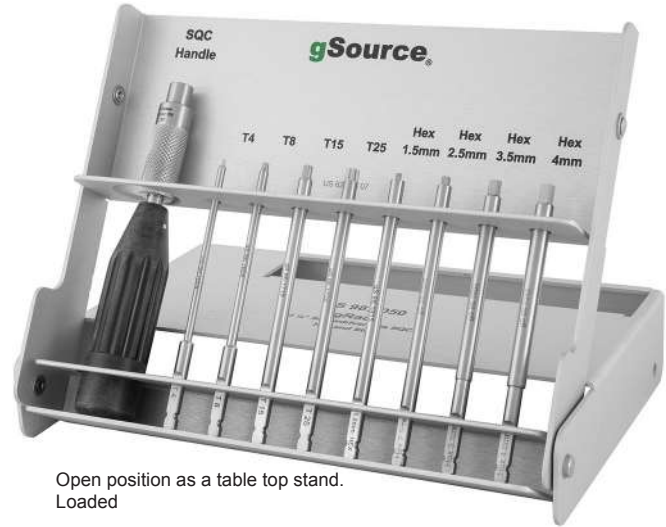
SQC Hex Bits	Size	OAL
gS 86.1915	1.5mm	3 1/2"
gS 86.1925	2.5mm	3 1/2"
gS 86.1935	3.5mm	3 1/2"
gS 86.1940	4.0mm	3 1/2"

gS 98.4050 5 3/4"
 anodized aluminum

gRack, Screwdriver Bits SQC
 stores 4 SQC star bits, 4 SQC hex bits, 1 SQC handle
 1 each (sold separately)



Closed position for storage.
 5 3/4" x 7 1/4" x 1 1/4"
 Empty



Open position as a table top stand.
 Loaded

Rack folds to close for convenient storage. When opened, it converts to a table top stand for use in the operating room.

Drill bit diameter and reorder numbers are marked inside rack for easy identification.

Rack stores 1 each of the following gSource part numbers:

	OD	OAL
gS 86.8211	1.1mm	60mm
gS 86.8215	1.5mm	85mm
gS 86.8220	2.0mm	100mm
gS 86.8222	2.2mm	110mm
gS 86.8226	2.5mm	110mm
gS 86.8228	2.7mm	125mm
gS 86.8235	3.5mm	110mm

gS 98.8178 7"
 stainless steel

gRack, SQC Twist Drill
 stores 7 SQC twist drills, 1 each (sold separately)
 1.1mm to 3.5mm [.045" to .138"]



Closed position for storage.
 7" x 4 1/4" x 3/4"
 Empty

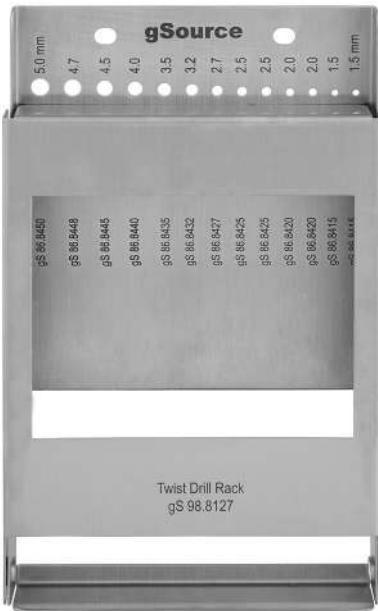


Open position as a table top stand.
 Loaded

OAL = Overall Length
 OD = Outside Diameter

Twist Drill rack folds to close for convenient storage. When opened, it converts to table top stand for use in the operating room.

Gauge in rack for quick and easy diameter sizing. Drill bit diameter and reorder numbers are marked inside rack for easy identification.



Closed position for storage.
 6 3/4" x 4 1/4" x 3/4"
 Empty

Rack stores the following gSource part numbers:

	OD	OAL	Max Stored
gS 86.8415	1.5mm	127mm	2
gS 86.8420	2.0mm	127mm	2
gS 86.8425	2.5mm	127mm	2
gS 86.8427	2.7mm	127mm	1
gS 86.8432	3.2mm	127mm	1
gS 86.8435	3.5mm	127mm	1
gS 86.8440	4.0mm	127mm	1
gS 86.8445	4.5mm	127mm	1
gS 86.8448	4.7mm	127mm	1
gS 86.8450	5.0mm	127mm	1

gS 98.8127 6 3/4"
 stainless steel

Twist Drill Rack
 stores 13 drill bits with round end
 (sold separately)



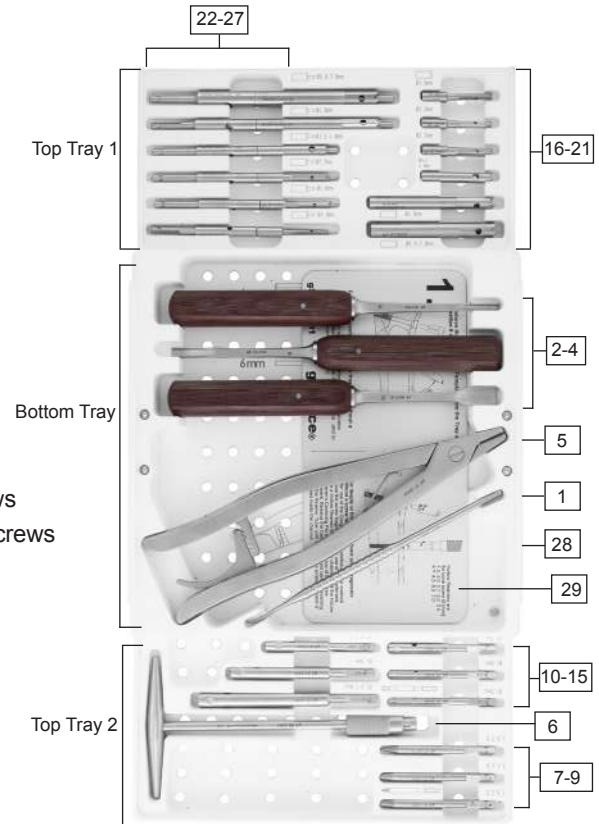
Open position as a table top stand.
 Loaded

62 - containers, instrument set for screw extraction

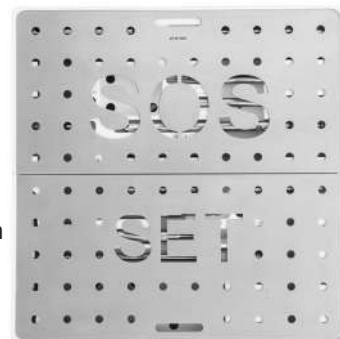
Useful for removal of damaged and broken bone screws.

Pictured components:

1. **gS 11.9525** Sharp Hook 6 1/4", grooved handle
2. **gS 56.0104** Mini Lexer Gouge 7", 4mm, phenolic handle
3. **gS 56.0106** Mini Lexer Gouge 7", 6mm, phenolic handle
4. **gS 56.0110** Mini Lexer Gouge 7", 10mm, phenolic handle
5. **gS 81.8608** Screw Holding Forceps 8" with ratchet
6. **gS 86.0060** T-Handle 6", SQC (small quick coupling)
7. **gS 87.5215** Conical Screw Extractor 65mm for 1.5/2.0mm screws
8. **gS 87.5227** Conical Screw Extractor 65mm for 2.7/3.5/4.0mm screws
9. **gS 87.5245** Conical Screw Extractor 65mm for 4.5/5.0/6.5/7.0mm screws
10. **gS 87.5315** Extraction Bolt 60mm for 1.5mm screws
11. **gS 87.5320** Extraction Bolt 60mm for 2.0mm screws
12. **gS 87.5327** Extraction Bolt 60mm for 2.7mm screws
13. **gS 87.5335** Extraction Bolt 60mm for 3.5/4.0mm screws
14. **gS 87.5345** Extraction Bolt 80mm for 4.5mm screws
15. **gS 87.5350** Extraction Bolt 100mm for 5.0/6.5/7.0mm screws
16. **gS 87.5415** Hollow Reamer 105mm for 1.5mm screws
17. **gS 87.5420** Hollow Reamer 105mm for 2.0mm screws
18. **gS 87.5427** Hollow Reamer 105mm for 2.7mm screws
19. **gS 87.5435** Hollow Reamer 105mm for 3.5/4.0mm screws
20. **gS 87.5445** Hollow Reamer 137mm for 4.5mm screws
21. **gS 87.5450** Hollow Reamer 137mm for 5.0/6.5/7.0mm screws
22. **gS 87.5515** Spare Reamer 40mm (Reamer Tube) for Hollow Reamer 1.5mm
23. **gS 87.5520** Spare Reamer 40mm (Reamer Tube) for Hollow Reamer 2.0mm
24. **gS 87.5527** Spare Reamer 40mm (Reamer Tube) for Hollow Reamer 2.7mm
25. **gS 87.5535** Spare Reamer 40mm (Reamer Tube) for Hollow Reamer 3.5/4.0mm
26. **gS 87.5545** Spare Reamer 70mm (Reamer Tube) for Hollow Reamer 4.5mm
27. **gS 87.5550** Spare Reamer 70mm (Reamer Tube) for Hollow Reamer 5.0/6.5/7.0mm
28. **gS 98.3000** Tray 8 1/4", aluminum cover, plastic tray, white
29. **gS 98.3001** Instruction Template, 200mmx96mm, aluminum



Tray in open position with cover removed.
3 separate trays - Top Trays 1 and 2,
Bottom Tray



Tray in closed position.
210mm x 210mm x 42mm

Screw Extraction Set
1 each (sold separately)

instrument set for mini fragment fixation - 63

Fragment – Mini

part number	qty	description
gS 11.9500	1	Sharp Hook 6"
gS 36.9300	1	Hohmann Retractor Mini 6 1/2" 6mm
gS 36.9320	1	Hohmann Retractor Mini 6 1/2" 8mm
gS 43.3060	1	Periosteal Elevator 7 1/4" curved 3mm straight sharp edge phenolic handle
gS 46.2190	1	Stagbeetle Forceps 4 3/4"
gS 46.2330	1	Bone Reduction Forceps 5" curved 10mm serrated with pointed tips
gS 46.2350	1	Bone Reduction Forceps 5" curved 15mm serrated with pointed tips
gS 81.3214	1	Needle Nose Pliers 5 1/4" delicate with guide
gS 82.0172	1	Mini Bending Iron 4 3/4" for 1.5mm/2.0mm plates
gS 82.0174	1	Small Bending Iron 5 1/2" for 2.7mm/3.5mm plates
gS 82.0176	1	Small Bending Iron 5 1/2" for 3.5mm/2.7mm plates
gS 82.0980	2	Plate Bending Pliers 5 1/2" max 2.0mm plates
gS 83.7230	1	Wire Cutter double action 7" angled TC max cap 1.6mm [.062"]
gS 83.9000	1	Plate/Pin Cutter double action 9 1/2", max cap 3.2mm [.126"]
gS 86.0035	1	Handle 4 1/4" MQC (mini quick coupling)
gS 86.0040	1	Handle 4 1/2" SQC (small quick coupling)
gS 86.1004	1	Countersink 2 1/4" 1.5/2.0mm MQC (mini quick coupling) 1.1mm tip
gS 86.1006	1	Countersink 2 3/4" 2.7/3.5/4.0mm SQC (small quick coupling) 2.0mm tip
gS 86.1200	2	Tap 2" 1.5mm MQC (mini quick coupling) 0.5mm pitch
gS 86.1202	2	Tap 2 1/4" 2.0mm MQC (mini quick coupling) 0.6mm pitch
gS 86.1204	2	Tap 4" 2.7mm SQC (small quick coupling) 1.0mm pitch
gS 86.1502	1	Screwdriver Bit hex 2" 1.5mm MQC (mini quick coupling)
gS 86.1506	1	Screwdriver Bit hex 4" 2.5mm SQC (small quick coupling)
gS 86.2405	1	Depth Gauge 4 3/4" 30mm
gS 86.2410	1	Depth Gauge 6 1/2" 50mm
gS 86.2500	1	Drill Sleeve Double 4 3/4" 1.1/1.5mm
gS 86.2502	1	Drill Sleeve Double 4 3/4" 2.0/1.5mm
gS 86.2503	1	Drill Sleeve Double 5" 2.7/2.0mm
gS 86.4371	1	Holding Sleeve 1 1/2" for mini cruciform and hex shafts
gS 86.4373	1	Holding Sleeve 2" Split for small hex driver
gS 86.4490	1	Screwdriver 8 1/2" hex 2.5mm with notch black plastic handle
gS 86.6108	1	Screw Holding Forceps 3 1/2" for 1.5mm - 2.7mm
gS 86.8211	2	Drill Bit SQC (small quick coupling) 1.1mm 60/13mm
gS 86.8215	2	Drill Bit SQC (small quick coupling) 1.5mm 85/18mm
gS 86.8220	2	Drill Bit SQC (small quick coupling) 2.0mm 100/22mm
gS 86.8227	2	Drill Bit SQC (small quick coupling) 2.7mm 100/29mm
optional		
gS 36.9270	1	Hohmann Retractor 6" 15mm
gS 43.3120	1	Periosteal Elevator 7 1/4" curved 6mm sharp edge phenolic handle
gS 46.2370	1	Bone Reduction Forceps 5" curved stepped pointed
gS 46.2390	1	Plate and Bone Holding Forceps 5" with footplate
gS 46.2395	1	Plate Holding Forceps 5 1/2" curved
gS 82.2016	1	Gratloch Wire Bender 7 1/2" max cap 1.6mm [.062"]
gS 86.1504	1	Screwdriver Bit cruciform 2 1/2" MQC (mini quick coupling)

Instruments for Mini Fragment Fixation

1.5mm, 2.0mm and 2.7mm screws

64 - instrument set for small fragment fixation

Fragment – Small

part number	qty	description
gS 11.9500	1	Sharp Hook 6"
gS 36.9270	2	Hohmann Retractor 6" 15mm
gS 36.9320	2	Hohmann Retractor Mini 6 1/2" 8mm
gS 43.3120	1	Periosteal Elevator 7 1/4" curved 6mm sharp edge phenolic handle
gS 46.1920	1	Verbrugge Forceps 7 1/2" [19cm] self-centering
gS 46.2280	1	Bone Reduction Forceps 6" small curved
gS 46.2330	1	Bone Reduction Forceps 5" curved 10mm serrated with pointed tips
gS 46.2350	1	Bone Reduction Forceps 5" curved 15mm serrated with pointed tips
gS 81.3214	1	Needle Nose Pliers 5 1/4" delicate with guide
gS 82.0174	1	Small Bending Iron 5 1/2" for 2.7mm/3.5mm plates
gS 82.0176	1	Small Bending Iron 5 1/2" for 3.5mm/2.7mm plates
gS 82.0182	2	Bending Iron 7 3/4" for 3.5mm/4.5mm plates
gS 82.4760	1	Wire and Pin Bender 6" max cap 3.2mm [.126"]
gS 86.0045	1	T-Handle 3 1/2" for small/large screw sets SQC (small quick coupling)
gS 86.1002	1	Adaptor 2 1/2" for power drill SQC (small quick coupling)
gS 86.1006	1	Countersink 2 3/4" 2.7/3.5/4.0mm SQC (small quick coupling) 2.0mm tip
gS 86.1206	2	Tap 4 1/4" 3.5mm SQC (small quick coupling) 1.25mm pitch TiN coated
gS 86.1208	2	Tap 4 1/4" 3.5mm SQC (small quick coupling) 1.75mm pitch
gS 86.1510	1	Screwdriver Bit hex 5 1/2" 2.5mm SQC (small quick coupling) with notch
gS 86.2410	1	Depth Gauge 50mm
gS 86.2504	1	Drill Sleeve Double 5" 2.5/3.5mm
gS 86.2507	1	Drill Guide/Sleeve 4 1/2" Parallel 3:1 2.7mm screw/2.0mm drill bit
gS 86.2510	1	Insert Drill Sleeve 1 1/2" 3.5mm screw/2.5mm drill bit
gS 86.2584	1	Drill Guide 6" Neutral/Load 3.5mm screw/2.5mm drill bit
gS 86.2735	1	Universal Drill Guide 5 1/2" 3.5mm screw/2.5mm drill bit
gS 86.4375	1	Holding Sleeve 3" for small hex driver
gS 86.4490	1	Screwdriver 8 1/2" hex 2.5mm with notch black plastic handle
gS 86.6110	1	Screw Holding Forceps 3 1/2" for 3.5mm - 6.5mm
gS 86.8226	2	Drill Bit SQC (small quick coupling) 2.5mm 110/32mm
gS 86.8235	2	Drill Bit SQC (small quick coupling) 3.5mm 110/42mm
optional		
gS 36.9300	1	Hohmann Retractor Mini 6 1/2" 6mm
gS 46.1900	1	Verbrugge Forceps 6" [15cm] self-centering speedlock
gS 46.2370	1	Bone Reduction Forceps 5" curved stepped pointed
gS 82.0315	1	Plate Bending Pliers 8 1/2" for 1.6mm plates
gS 82.2016	1	Gratloch Wire Bender 7 1/2" max cap 1.6mm [.062"]
gS 83.7240	1	Wire Cutter double action 9" angled TC max cap 2.4mm [.079"]
gS 83.7320	1	Pin Cutter double action 10" end cut max cap 3.0mm [.118"]
gS 86.0040	1	Handle 4 1/2" SQC (small quick coupling)
gS 86.1506	1	Screwdriver Bit hex 4" 2.5mm SQC (small quick coupling)
gS 86.4373	1	Holding Sleeve 2" Split for small hex driver

Instruments for Small Fragment Fixation

3.5mm and 4.0mm screws

instrument set for large fragment fixation - 65

Fragment – Large

part number	qty	description
gS 11.9500	1	Sharp Hook 6"
gS 46.1940	1	Verbrugge Forceps 9 1/2" [24cm] self-centering
gS 46.1980	1	Verbrugge Forceps 11" [28cm] self-centering
gS 46.2340	1	Bone Reduction Forceps 8" long ratchet
gS 46.2409	2	Bone Holding Forceps 9" with speedlock
gS 86.0045	1	T-Handle 3 1/2" for small/large screw sets SQC (small quick coupling)
gS 86.1020	1	Countersink 7" 4.5/6.5mm T-handle 4.3mm tip
gS 86.1212	3	Tap 5" 4.5mm SQC (small quick coupling) 2.0mm pitch
gS 86.1220	1	Tap 8" 6.5mm SQC (small quick coupling) calibrated mm 2.7mm pitch
gS 86.1521	1	Screwdriver Bit hex 6 1/2" 3.5mm SQC (small quick coupling)
gS 86.2420	1	Depth Gauge 11 1/2" 120mm
gS 86.2505	1	Drill Sleeve Double 7" 4.5/3.2mm
gS 86.2506	1	Drill Sleeve Double 6 1/2" 6.5/3.2mm
gS 86.2515	1	Insert Drill Sleeve 3 1/8" 4.5mm screw/3.2mm drill bit
gS 86.2586	1	Drill Guide 6 1/2" Neutral/Load 4.5mm screw/3.2mm drill bit
gS 86.2745	1	Universal Drill Guide 7" 4.5mm screw/3.2mm drill bit
gS 86.4380	1	Holding Sleeve 5" for large hex driver
gS 86.4590	1	Screwdriver 10" hex 3.5mm with notch black plastic handle
gS 86.6110	1	Screw Holding Forceps 3 1/2" for 3.5mm - 6.5mm
gS 86.7220	1	Tension Device 3 1/2" span 20mm articulated
gS 86.8220	2	Drill Bit SQC (small quick coupling) 2.0mm 100/22mm
gS 86.8232	3	Drill Bit SQC (small quick coupling) 3.2mm 145/48mm
gS 86.8245	2	Drill Bit SQC (small quick coupling) 4.5mm 145/50mm
gS 87.0012	1	Combination Wrench 5 1/2" 11mm
gS 87.0014	1	Socket Wrench 7" 11mm stainless
optional		
gS 46.1960	1	Verbrugge Forceps 10" [26cm] self-centering
gS 46.2370	1	Bone Reduction Forceps 5" curved stepped pointed
gS 46.2407	1	Bone Holding Forceps 7" with speedlock
gS 86.1519	1	Screwdriver Bit hex 4" 3.5mm SQC (small quick coupling)
gS 86.2415	1	Depth Gauge 9 1/2" 100mm

Instruments for Large Fragment Fixation

4.5mm and 6.5mm screws

66 - instrument set for pelvic fragment fixation

Pelvic

part number	qty	description
gS 37.2100	1	Pelvic Retractor 10 1/2" x 1" blunt
gS 45.4320	1	Bone Hook 8" sharp 20mm t-handle
gS 45.4346	1	Volkman Bone Hook 8 1/2" sharp 20mm
gS 46.2340	1	Bone Reduction Forceps 8" long ratchet
gS 47.0919	1	Farabeuf Lambotte Forceps 7 1/2" adjustable jaw with ratchet
gS 47.1020	1	Farabeuf Lambotte Forceps 10" adjustable jaw with ratchet
gS 47.6190	1	Pelvic Reduction Forceps 7 3/4" angled short ball tips
gS 47.6192	1	Pelvic Reduction Forceps 9 1/2" angled long ball tips
gS 47.6196	1	Pelvic Reduction Forceps 10" straight long ball tips
gS 47.6200	1	Pelvic Reduction Forceps 16" straight long ball tips
gS 47.6204	1	Pelvic Reduction Forceps 16" asymmetric ball tips
gS 47.6208	1	Pelvic Reduction Forceps 16" 1x2 long ball tips
gS 47.6212	1	Pelvic Reduction Forceps 13 1/2" for screws
gS 82.0182	2	Bending Iron 7 3/4" for 3.5mm/4.5mm plates
gS 82.0300	1	Plate Bending Pliers 10" for reconstruction plates
gS 82.4740	1	Steinmann Pin Chuck key 4" cannulated max 5.0/7.0mm
gS 86.0045	1	T-Handle for small/large screw sets SQC (small quick coupling)
gS 86.1209	2	Tap 7" 3.5mm SQC (small quick coupling) calibrated mm
gS 86.1216	2	Tap 7" 4.5mm SQC (small quick coupling) calibrated mm
gS 86.1515	1	Screwdriver Bit hex 6 1/2" 2.5mm SQC (small quick coupling) with notch
gS 86.1521	1	Screwdriver Bit hex 6 1/2" 3.5mm SQC (small quick coupling)
gS 86.2420	1	Depth Gauge 11 1/2" 120mm
gS 86.4375	1	Holding Sleeve 3" for small hex driver
gS 86.4380	1	Holding Sleeve 5" for large hex driver
gS 86.4585	1	Screwdriver 10 1/2" hex 2.5mm with notch phenolic handle
gS 86.4595	1	Screwdriver 12" hex 3.5mm with notch black plastic handle
gS 86.6110	1	Screw Holding Forceps 3 1/2" for 3.5mm - 6.5mm
gS 86.8236	2	Drill Bit SQC (small quick coupling) 3.5mm 195/50mm
gS 86.8246	2	Drill Bit SQC (small quick coupling) 4.5mm 195/50mm
gS 86.8725	2	Drill Bit SQC (small quick coupling) 3 flute calibrated 2.5mm 230mm/30mm
gS 86.8732	2	Drill Bit SQC (small quick coupling) 3 flute calibrated 3.2mm 230mm/30mm
gS 86.8765	2	Drill Bit SQC (small quick coupling) 3 flute 4.5mm 195mm/45mm
gS 87.0020	1	Straight Ball Spike 12"
gS 87.0022	4	Spiked Disc 25mm diameter

Instruments for Pelvic Fragment Fixation

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