

## instruments for fracture and fragment fixation



**gSource.**

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\*Oxidation of lead surface is a normal process.

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

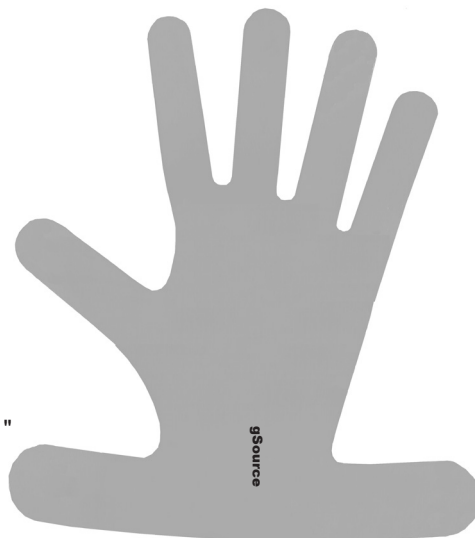
Dry Heat:  
356°F (180°C)  
30 minutes

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\*

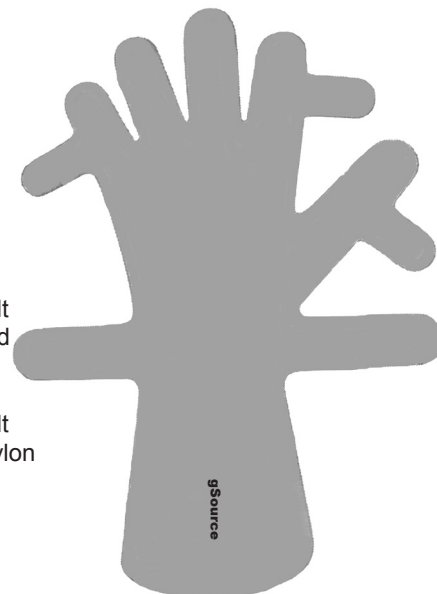
**gS 11.1900 14" Adult**

**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"**

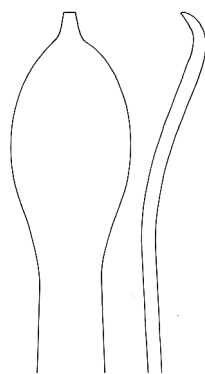
**Sharp Hook**  
grooved handle



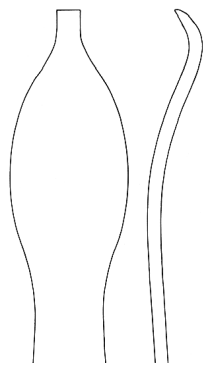
4 - scalpel handles and hand-held retractors

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

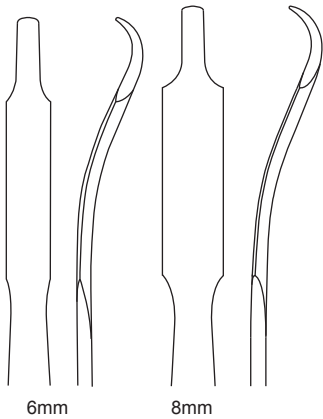
**Scalpel Handle #3K**  
Beaver-style  
for blades 61 through 69



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"

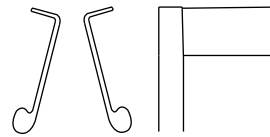
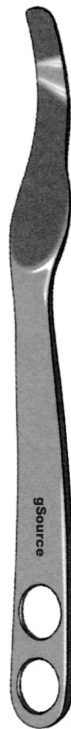




## hand-held and self-retaining retractors - 5

**gS 37.2100** 10 1/2"

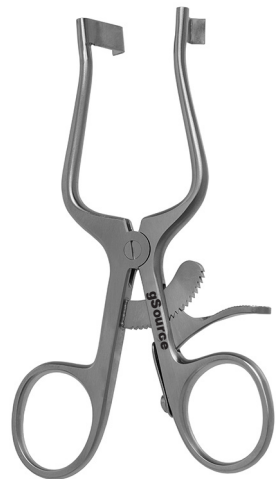
**Pelvic Retractor**  
1" blunt



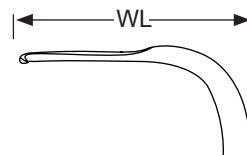
Helps to provide increased visibility of the tendon sheath in trigger finger procedures. Also useful in other small incision procedures.

**gS 38.5500** 4 1/4" blunt

**gRetractor, Trigger Finger**  
6.5mm width x 12mm depth blade



WL = Working Length

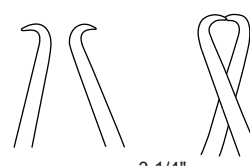


5 1/2"

**gS 38.8797** 4"

**gS 38.8799** 5 1/2"

**Johnson Neuroma Retractor**



3 1/4"

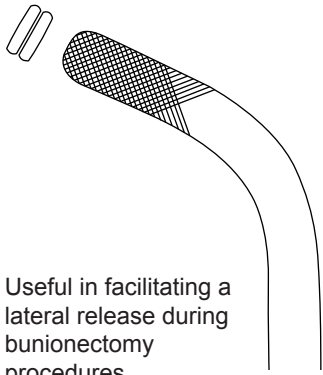
**gS 38.8793** 3 1/4", 7.5mm

**gS 38.8795** 4", 9.5mm

**gRetractor, Johnson Neuroma**  
90° angle, 1 1/4" WL



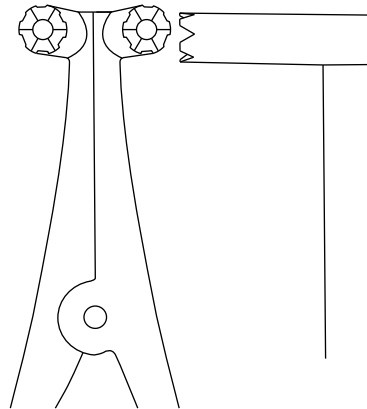
## 6 - self-retaining retractors and distractors



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"

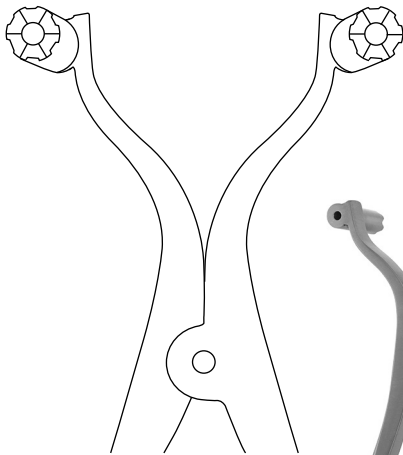
**gRetractor, Abramssohn**  
outside cross serrated blades  
calibrated ratchet



For small bone fixation procedures.

**gS 40.1100** 6"

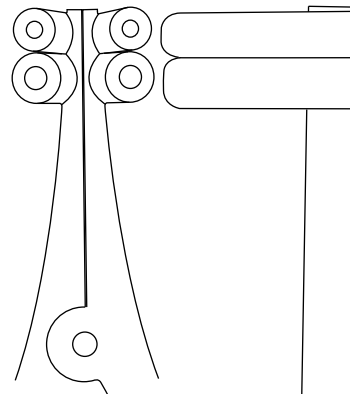
**gDistractor**  
with guides, calibrated ratchet  
max cap 2.4mm [.094"]



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

**gS 40.1120** 6"

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



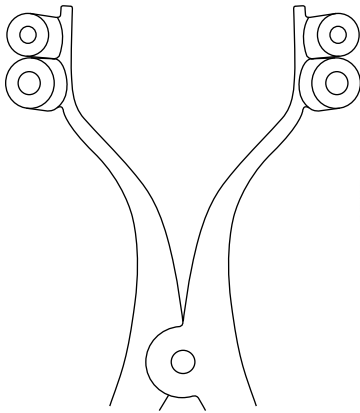
For small bone fixation procedures.

**gS 40.1130** 6"

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



## distractors and elevators - 7



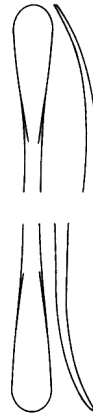
Outspread arms are useful for small bone fixation and other indications.

**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

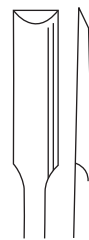
sharp/blunt 5mm ends



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"

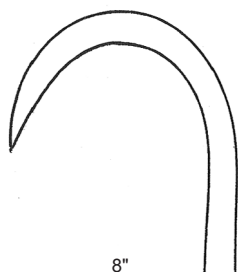
**Kuntscher Diamond  
Pointed Awl**



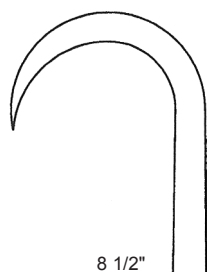
**gS 45.4320** sharp  
**gS 45.4321** blunt

**Bone Hook**  
8"

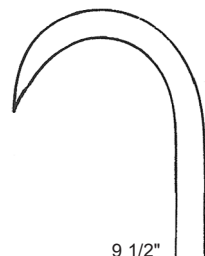
T-handle, 20mm deep



8"



8 1/2"



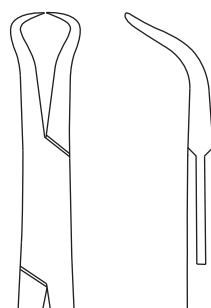
9 1/2"

**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

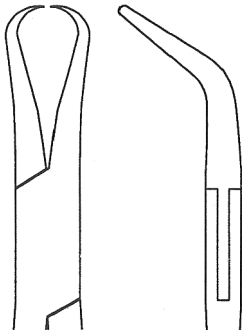


Max opening with  
ratchet engaged: 16mm.

**gS 46.2180** 3 1/2"

**Termite Forceps**  
curved pointed tips

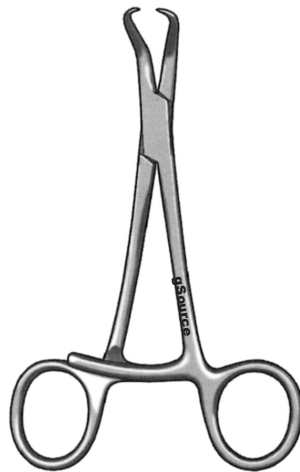




Max opening with  
ratchet engaged: 14mm.

**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"

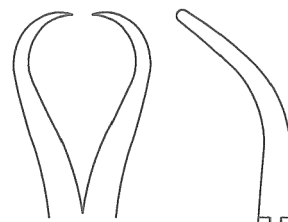
**Plate and Bone Holding  
Forceps**  
one pointed tip, one footplate



Max opening with  
ratchet engaged: 13mm.

**gS 46.2395** 5 1/2"

**Plate Holding Forceps**  
curved



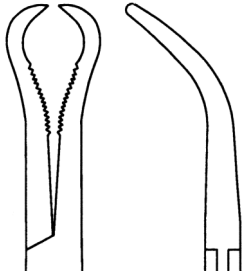
Max opening with ratchet  
engaged: 16mm.

**gS 46.4000** 5"

**Bone Reduction  
Forceps**  
curved, pointed tips



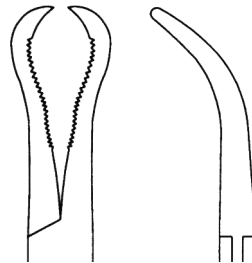
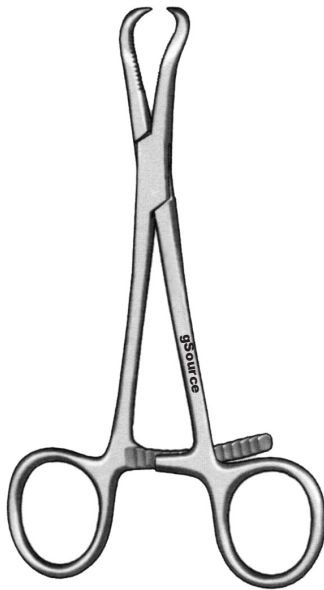
## 10 - bone holding



Max opening with  
ratchet engaged: 16mm.

**gS 46.2330 5"**

**Bone Reduction Forceps**  
curved, pointed tips  
10mm serrations



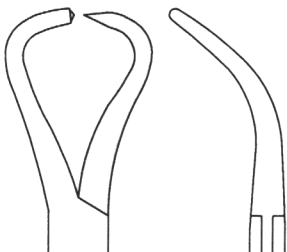
Max opening with  
ratchet engaged: 16mm.

**gS 46.2350 5"**

**Bone Reduction Forceps**  
curved, pointed tips  
15mm serrations



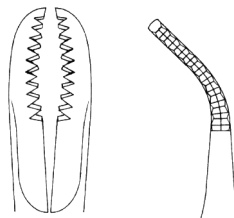
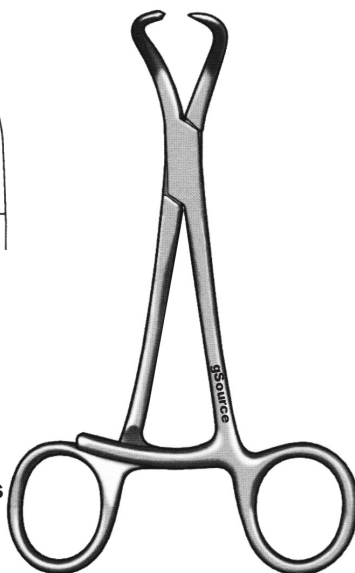
One tip has a stepped point  
for better hold on bone.



Max opening with  
ratchet engaged: 13mm.

**gS 46.2370 5"**

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



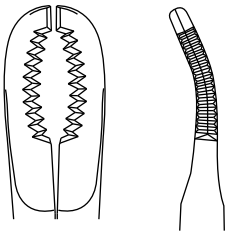
Max opening with  
ratchet engaged: 15mm.

**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



For positioning k-wires.

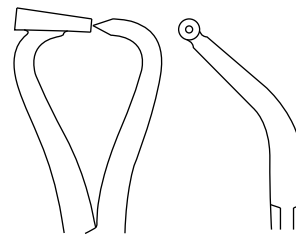
Max opening with  
ratchet engaged: 12mm.

**gS 46.4009** 0.9mm [.035"]

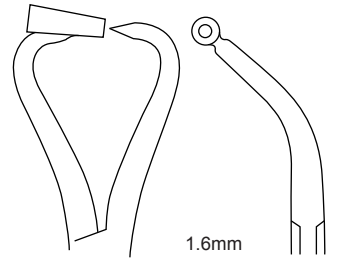
**gS 46.4012** 1.2mm [.047"]

**gS 46.4016** 1.6mm [.062"]

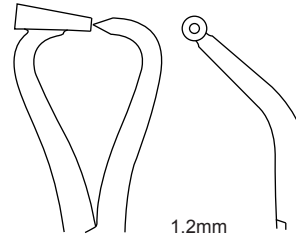
**Bone Reduction Forceps**  
5 1/2"  
curved with guide



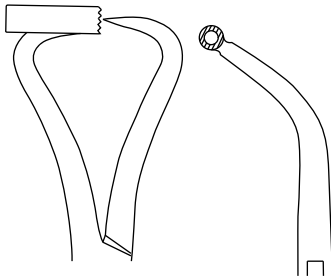
0.9mm



1.6mm



1.2mm

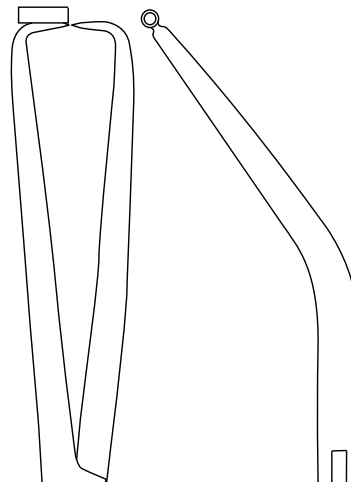


For positioning k-wires  
with diameter up to  
1.6mm [.062"].

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.

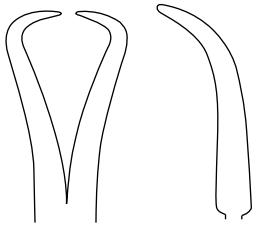
**gS 46.4060** 6 3/4"

**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"**

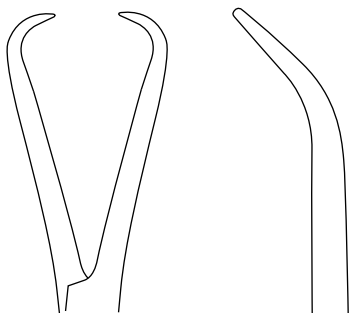
**Phalangeal  
Percutaneous  
Bone Reduction Forceps**



Max opening with ratchet engaged: 15mm.

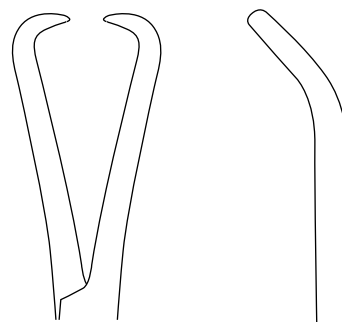
**gS 46.2320 7"**

**Bone Reduction  
Forceps (Reill)  
curved jaw**



**gS 46.2332 6"**

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



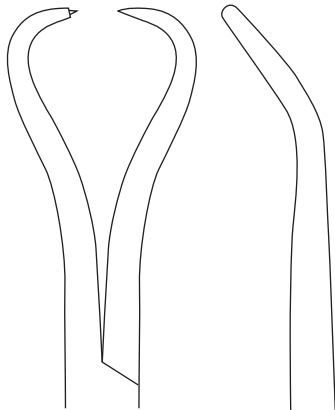
Heavy tips are shorter for strength.

**gS 46.2333 6"**

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



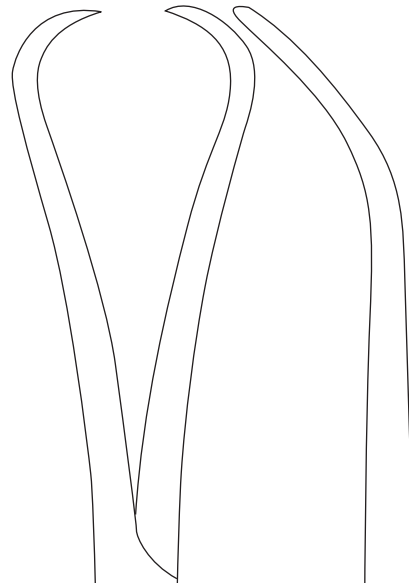




One step-pointed tip.

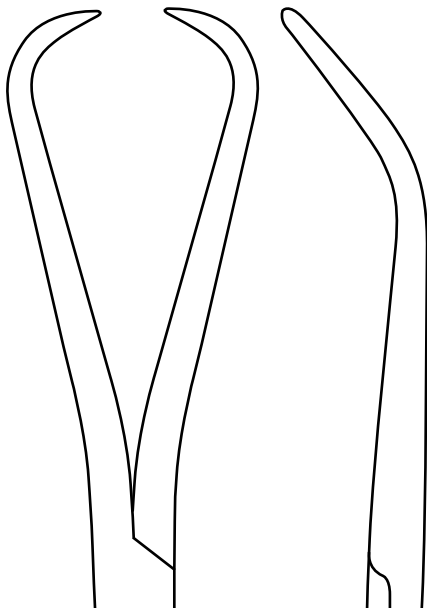
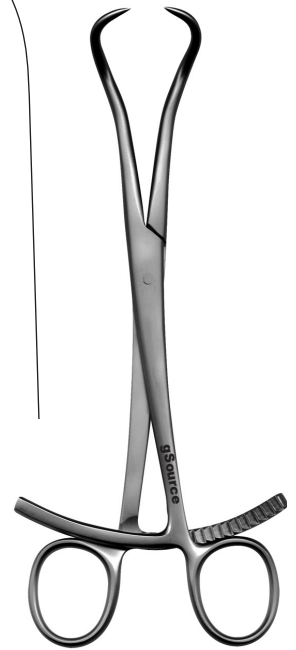
**gS 46.2335 7"**

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



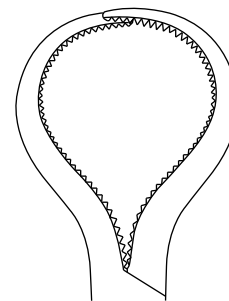
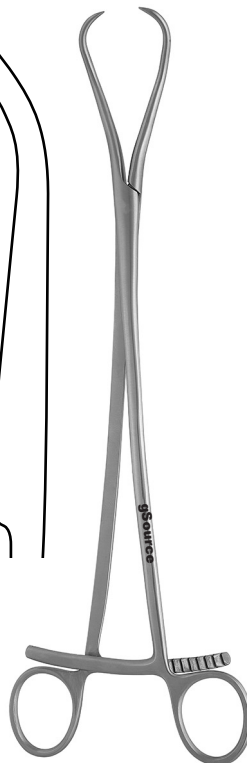
**gS 46.2340 8"**

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



**gS 46.2348 12"**

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

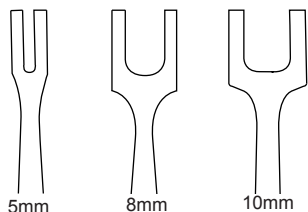


**gS 46.2305 6 3/4"**

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



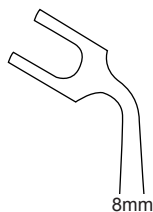
## 14 - bone holding



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

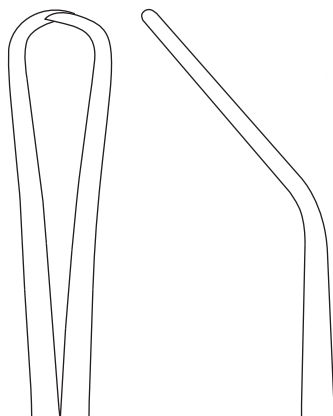
**Ikuta Bone Clamp**  
 straight



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

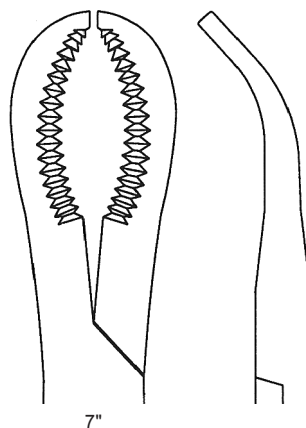
**gS 46.3015** 5 1/2" 5mm  
**gS 46.3018** 5 1/2" 8mm  
**gS 46.3020** 6 1/4" 10mm

**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

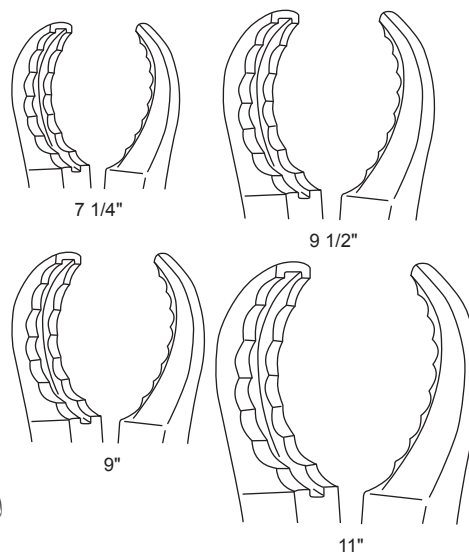
**Bone Holding Forceps**  
 with speedlock  
 curved serrated jaws



For positioning 2.7mm and 3.5mm plates.

**gS 46.2380 8"**

**Plate Holding Forceps**  
with swivel foot



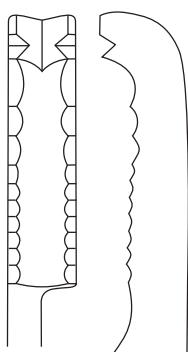
**gS 46.2116 7 1/4"**

**gS 46.2118 9"**

**gS 46.2120 9 1/2"**

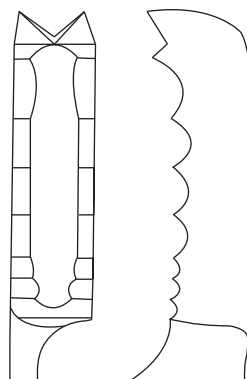
**gS 46.2122 11"**

**Ulrich Bone Holding Forceps**  
straight  
with speedlock



**gS 47.0919 7 1/2"**

**Farabeuf Lambotte Forceps**  
adjustable jaw with ratchet

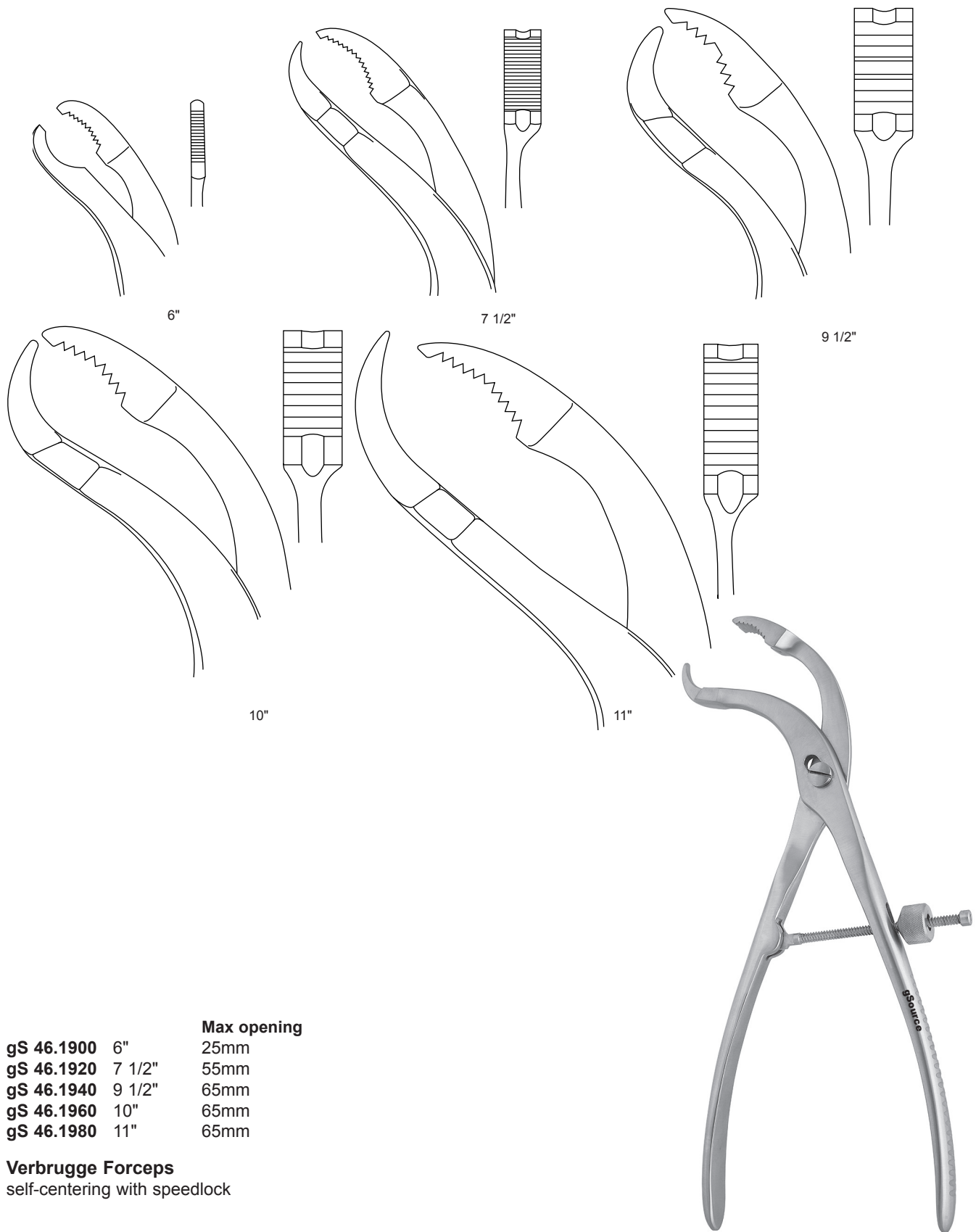


**gS 47.1020 10"**

**Farabeuf Lambotte Forceps**  
adjustable jaw with ratchet



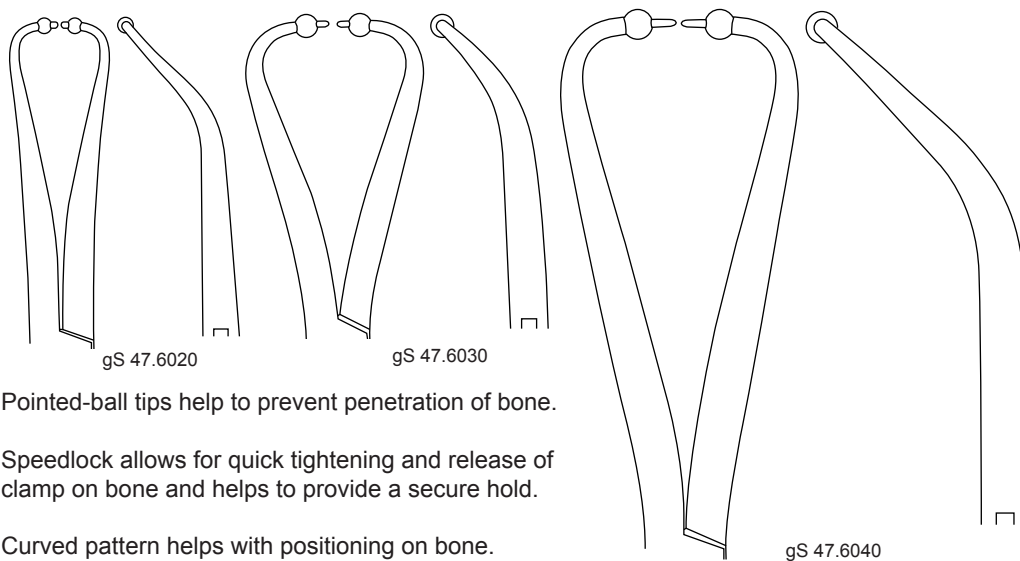
## 16 - bone holding



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

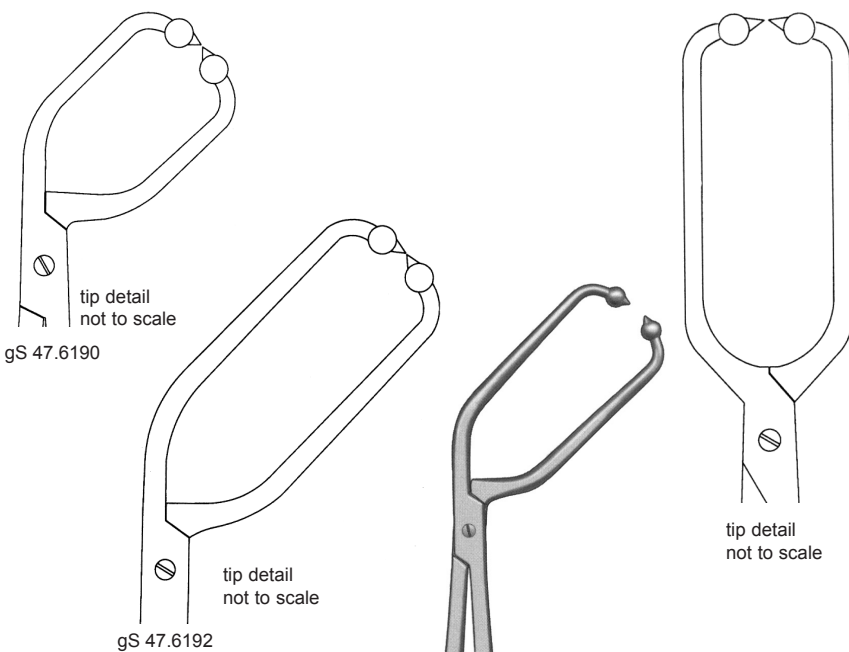
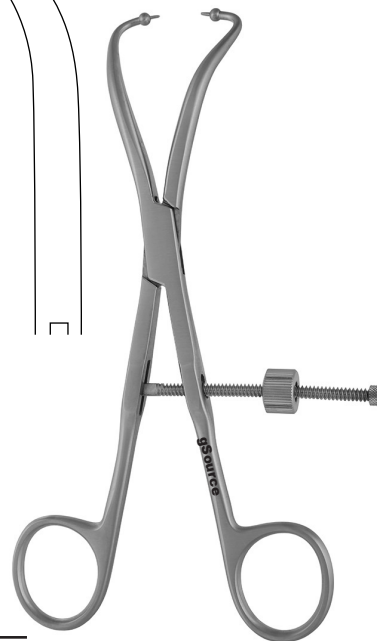
Curved pattern helps with positioning on bone.

## OD Ball Tips

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

## gClamp, Bone Fragment

ball tips, curved  
speedlock



**gS 47.6190** 7 3/4" short

**gS 47.6192** 9 1/2" long

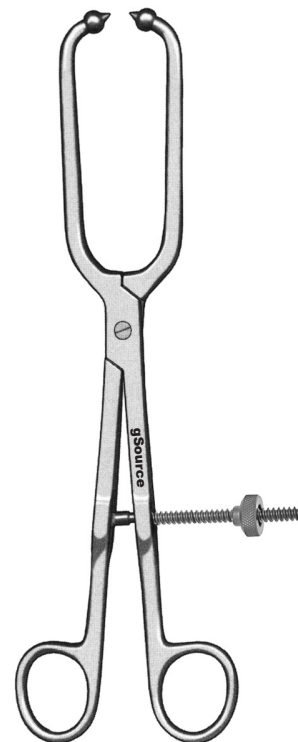
## Pelvic Reduction Forceps

angled pointed ball tips  
with speedlock

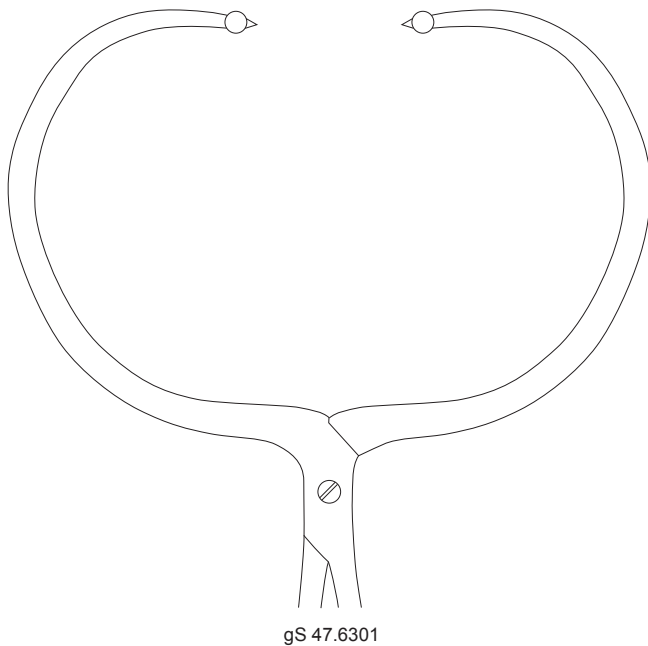
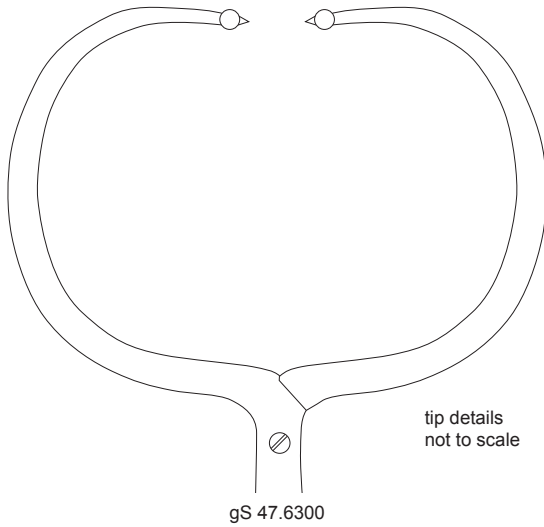
**gS 47.6196** 10"

## Pelvic Reduction Forceps

straight long pointed ball tips  
with speedlock

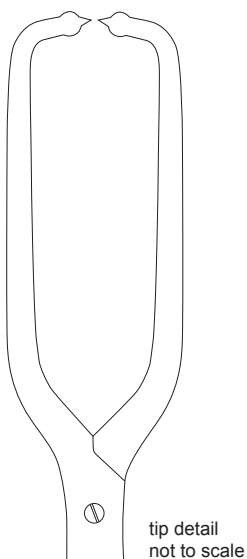


## 18 - bone holding



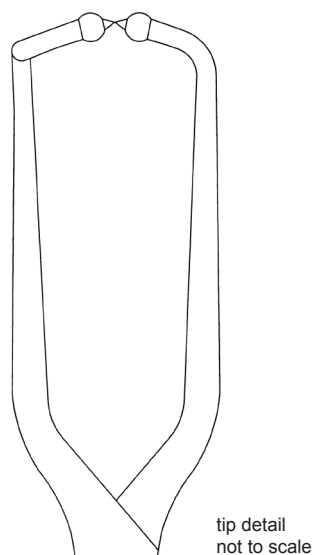
**gS 47.6300** medium 14mm-128mm opening  
**gS 47.6301** large 39mm-181mm opening

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



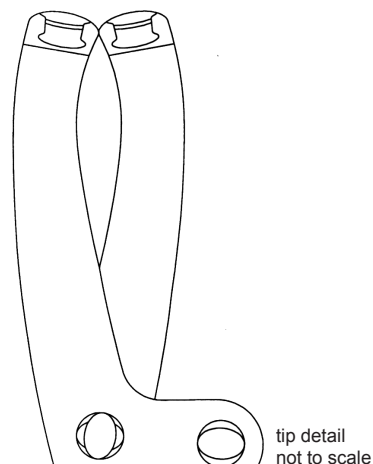
**gS 47.6200 16"**

**Pelvic Reduction Forceps**  
straight long pointed ball tips  
with speedlock



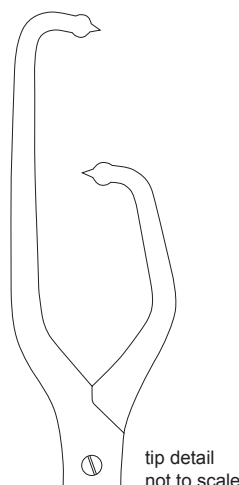
**gS 47.6208 16"**

**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"**

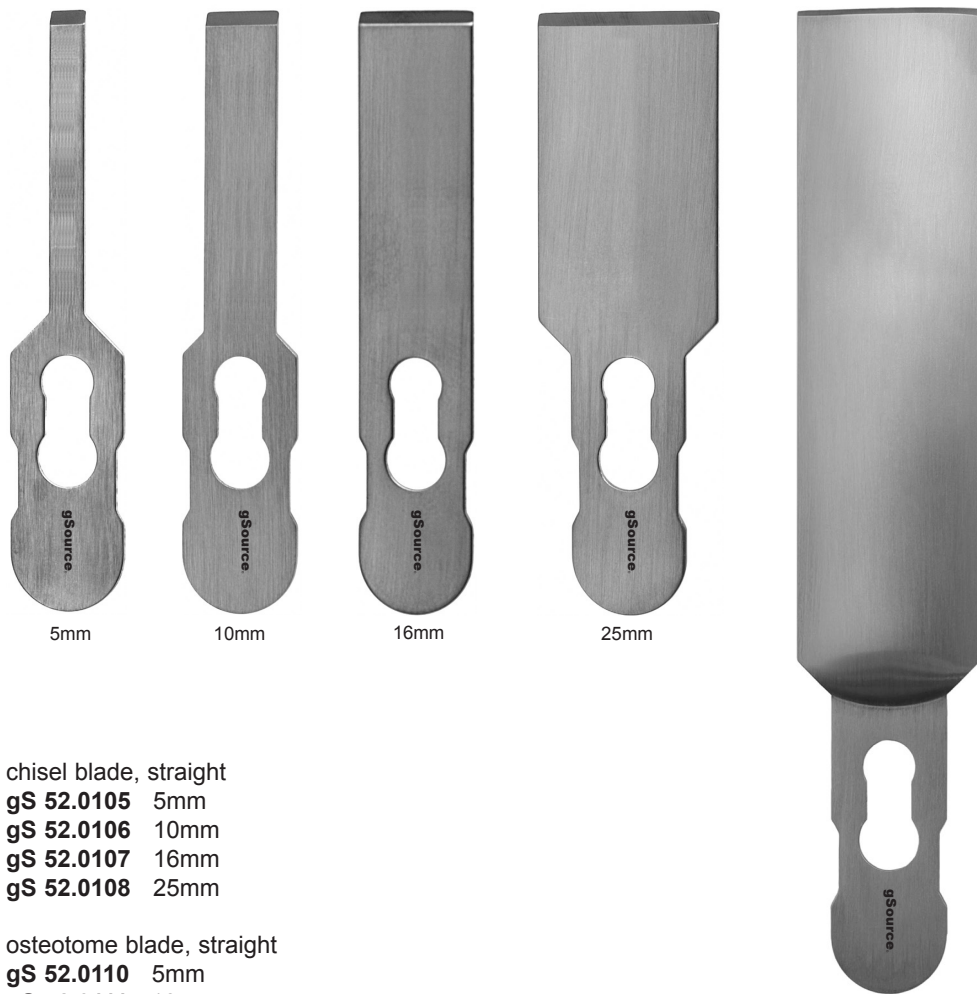
**Pelvic Reduction Forceps**  
asymmetric pointed ball tips  
with speedlock





## 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

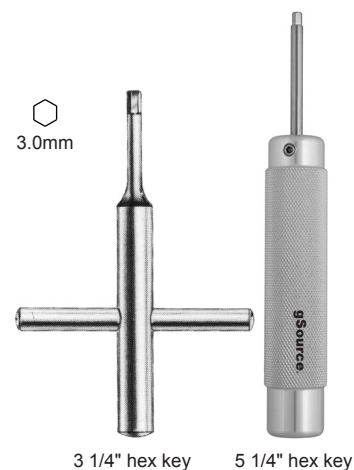
**gS 52.0100** handle only

**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

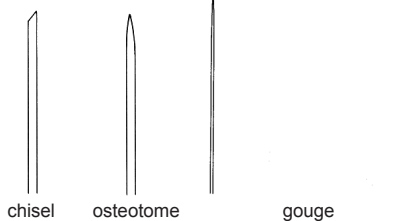
**gS 52.0102** replacement screw only



3 1/4" hex key

5 1/4" hex key

60mm radius



chisel

osteotome

gouge

**Interchangeable Osteotome, Chisel and Gouge**

7"

plastic handle, black



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



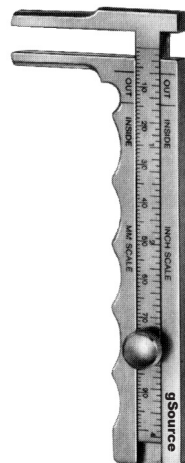
measures inside  
and outside

**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**

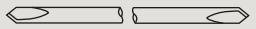
measures 0-180 degrees

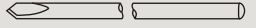


## 22 - stainless steel k-wires

Double Trocar		Smooth				
						
diameter		4"	5"	6"	9"	12"
0.7mm [.028"]		<b>gS 78.2000</b>	<b>gS 78.2050</b>	<b>gS 78.1210</b>	<b>gS 78.2105</b>	<b>gS 78.2200</b>
0.9mm [.035"]		<b>gS 78.2010</b>	<b>gS 78.2060</b>	<b>gS 78.1220</b>	<b>gS 78.2110</b>	<b>gS 78.2210</b>
1.1mm [.045"]		<b>gS 78.2020</b>	<b>gS 78.2070</b>	<b>gS 78.1230</b>	<b>gS 78.2120</b>	<b>gS 78.2220</b>
1.4mm [.054"]		<b>gS 78.2040</b>	<b>gS 78.2080</b>	<b>gS 78.1240</b>	<b>gS 78.2140</b>	<b>gS 78.2240</b>
1.6mm [.062"]		<b>gS 78.2030</b>	<b>gS 78.2090</b>	<b>gS 78.1250</b>	<b>gS 78.2130</b>	<b>gS 78.2230</b>
		Full Thread				
						
diameter		4"	5"	6"	9"	12"
1.6mm [.062"]		<b>gS 78.4210</b>	<b>gS 78.4220</b>	<b>gS 78.4230</b>	<b>gS 78.4030</b>	<b>gS 78.4035</b>

Single Trocar		Smooth / Round End				
						
diameter		4"	5"	6"	9"	12"
0.7mm [.028"]		<b>gS 78.2300</b>	<b>gS 78.2700</b>	<b>gS 78.2800</b>	<b>gS 78.2500</b>	<b>gS 78.2600</b>
0.9mm [.035"]		<b>gS 78.2310</b>	<b>gS 78.2710</b>	<b>gS 78.2810</b>	<b>gS 78.2510</b>	<b>gS 78.2610</b>
1.1mm [.045"]		<b>gS 78.2320</b>	<b>gS 78.2720</b>	<b>gS 78.2820</b>	<b>gS 78.2520</b>	<b>gS 78.2620</b>
1.4mm [.054"]		<b>gS 78.2330</b>	<b>gS 78.2740</b>	<b>gS 78.2840</b>	<b>gS 78.2540</b>	<b>gS 78.2640</b>
1.6mm [.062"]		<b>gS 78.2340</b>	<b>gS 78.2750</b>	<b>gS 78.2850</b>	<b>gS 78.2530</b>	<b>gS 78.2630</b>
		Partial Thread 25mm / Round End				
						
diameter		4"	5"	6"	9"	12"
1.6mm [.062"]		<b>gS 78.9110</b>	<b>gS 78.9112</b>	<b>gS 78.9114</b>	<b>gS 78.9116</b>	<b>gS 78.9118</b>
		Full Thread / Round End				
						
diameter		4"	5"	6"	9"	12"
1.6mm [.062"]		<b>gS 78.4080</b>	<b>gS 78.4085</b>	<b>gS 78.4090</b>	<b>gS 78.4100</b>	<b>gS 78.4110</b>

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




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




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.


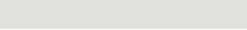

**Stainless Steel  
Kirschner Wires**  
6 wires per package  
non-sterile

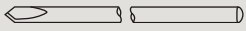


Precision ground from certified implant stainless steel.  
Smooth tapered points are expertly machined for easier penetration.  
Please inquire about the availability of any size and style not shown on this page.

## 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

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

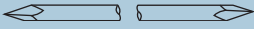
An internal fixation device, such as the K-wires, Steinmann Pins and cerclage wires shown in this brochure, must never be reused. They are intended for single use only.

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

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



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

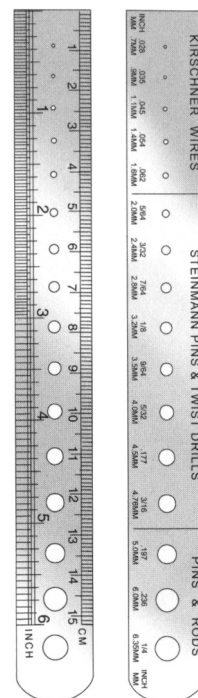
Gauges from diameter 0.7mm to 6.35mm [.028" to 1/4"]

### Stainless Steel Cerclage Wires

1 roll per package  
10 meters in length  
non-sterile

**gS 74.7800** 6 1/2"

### K-Wire Ruler and Pin Gauge



**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

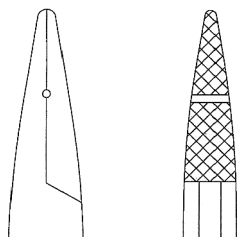


gS 80.0214



gS 80.5113

## 26 - pliers

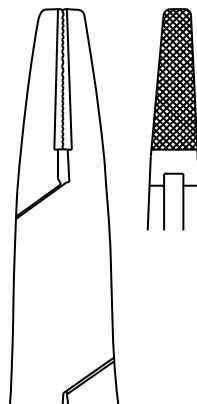


For cerclage wire.

**gS 81.3214** 5 1/4"

### Needle Nose Pliers

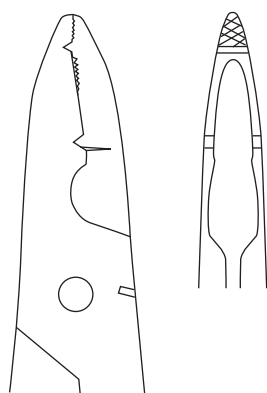
delicate with wire groove  
tapers to 2mm tip



**gS 81.3330** 6 1/2"

### Universal Bending Pliers

TC serrated jaw  
tapers to 3.5mm at tip

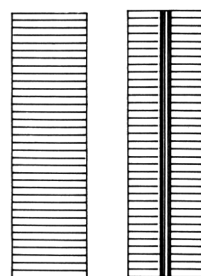


For cerclage wire.  
max cap 20 gauge [0.9mm]

**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



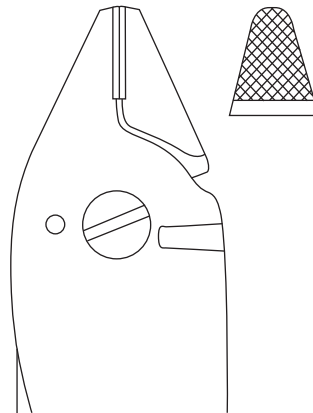
## pliers and locking pliers - 27

### 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

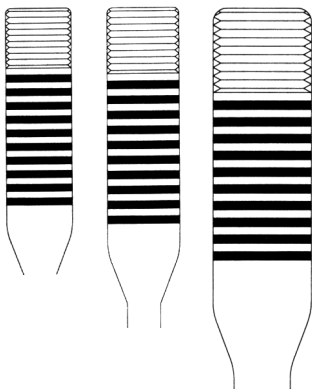
TC slot for wire shearing



**gS 81.3380 8"**

#### Wire Bending Pliers with Cutter

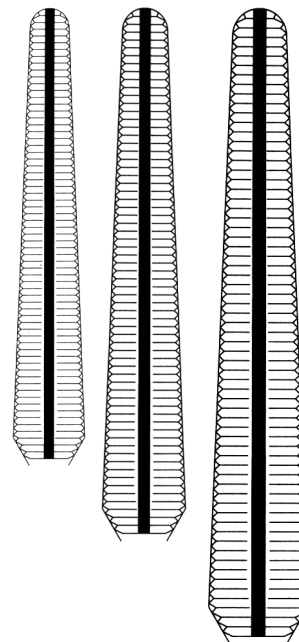
TC jaw and cutter  
max cap 2.0mm [.079"]



- 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



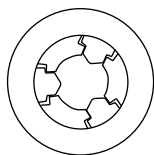
**gS 81.7108 8 1/2" small**  
**gS 81.7110 10" medium**  
**gS 81.7112 12" large**

#### Needle Nose Locking Pliers





## 28 - wire and pin management



Keyless chuck for insertion and removal of steinmann pins.

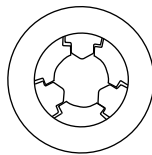
Cannulation max cap: 6.0mm  
Chuck max cap: 6.1mm

**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



Keyless chuck for insertion and removal of steinmann pins.

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

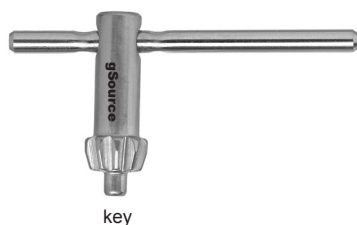
**gS 82.0030** 5 1/4"

**Universal Chuck**  
cannulated

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

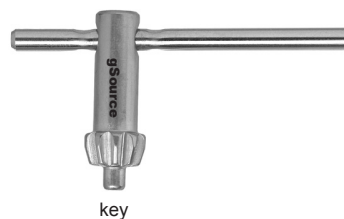
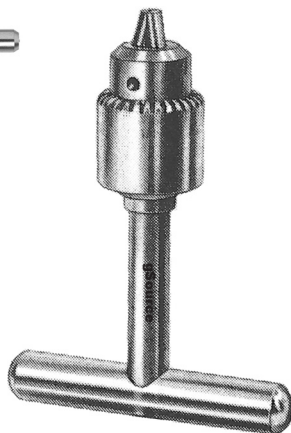
Cannulation max cap: 4.0mm  
Chuck max cap: 7.0mm

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



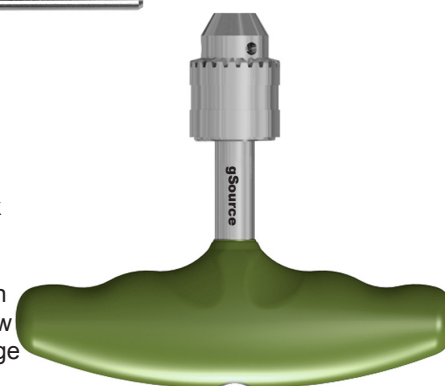
**gS 82.4740** 4" chuck with key  
**gS 82.4741** key only

**Steinmann Pin Chuck**  
cannulated, with key



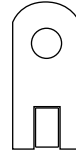
**gS 82.4731** black  
**gS 82.4732** blue  
**gS 82.4733** red  
**gS 82.4734** green  
**gS 82.4735** yellow  
**gS 82.4736** orange  
**gS 82.4737** grey

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





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"

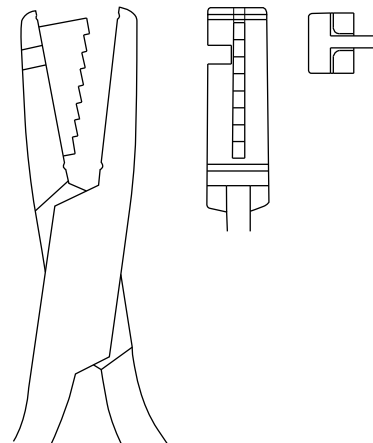
**gPin Puller, Universal**  
for max OD 3.5mm [.138"] pins  
grip handle



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



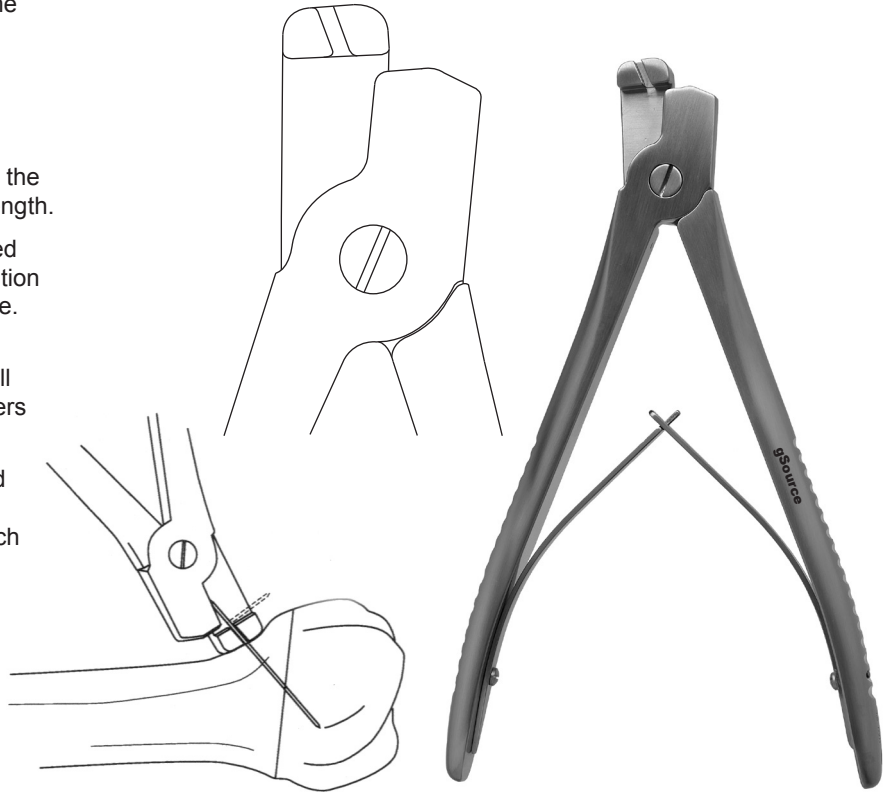
## 30 - wire and plate management

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

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

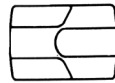
To bend wire:

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

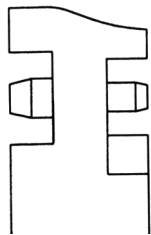
**Small Plate Bending Iron**  
5 1/2"

---



gS 82.0174

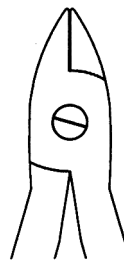
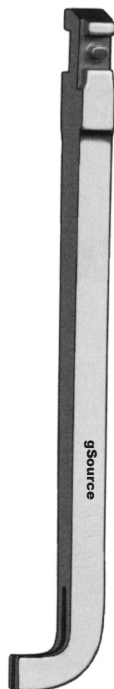
gS 82.0176



**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.

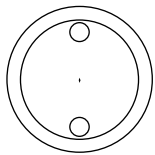
**gS 82.0280** 12"  
**gS 82.0282** anvil only

**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

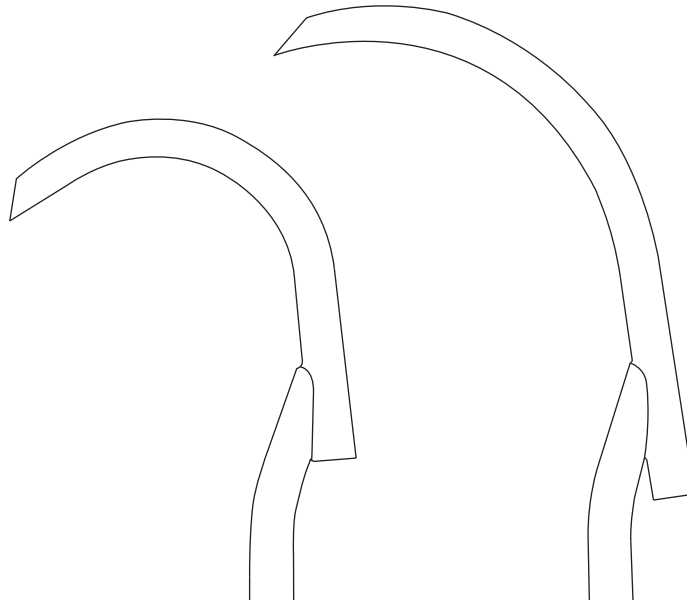


Double wire tightener.

**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

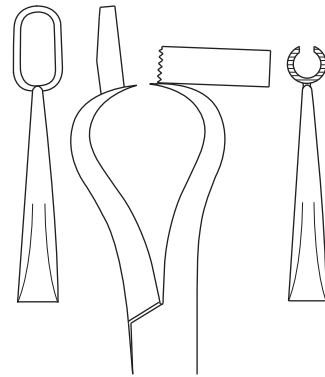
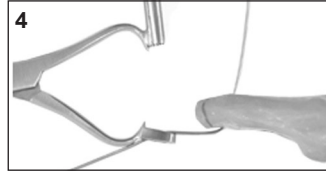
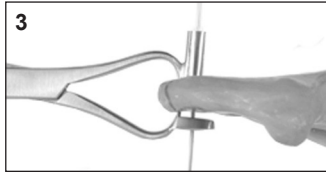
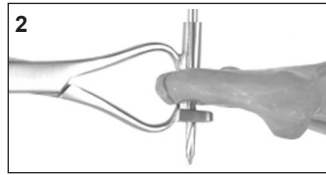
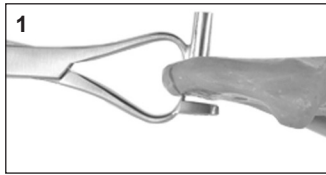
### **Wire Passer**

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

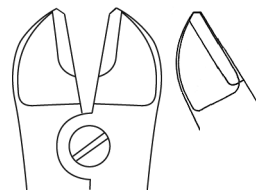
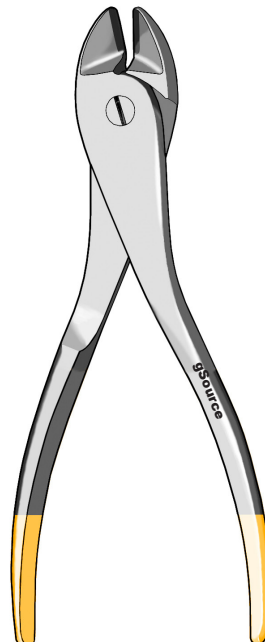


DA = Double Action  
TC = Tungsten Carbide



**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"]





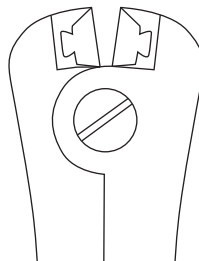
## 36 - wire and pin cutters

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.



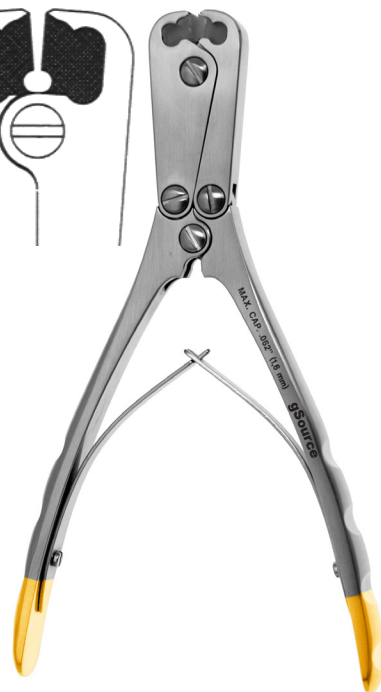
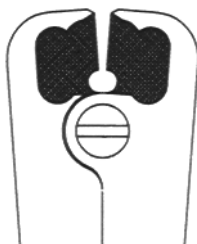
**gS 83.8450 7"**

**gS 83.8451** replacement silicone inserts (pair)

### Wire End and Side Flush Cutter with Silicone Inserts DA

TC inserts  
max cap 1.6mm [.062"]

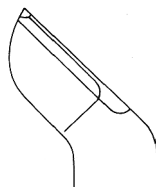
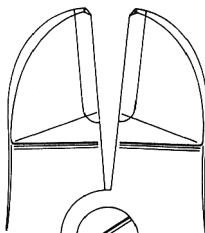
- Silicone inserts are designed to hold the remnant piece of wire for safe disposal after cutting.
- Double action provides smooth cutting action.
- End and side cutting jaws.
- Grooved handles provide a secure grip.
- Silicone inserts are suitable for use in manufacturing of medical devices. They are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

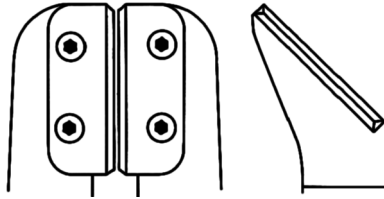
**Wire Side Cutter DA Angled**  
TC inserts  
max cap 2.4mm [.079"]





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"

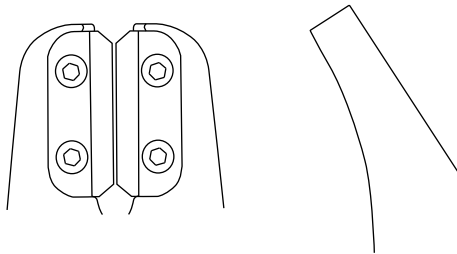
**gS 83.7901** TC insert replacement kit includes: inserts (2), screws (4) and wrench (1)

**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)

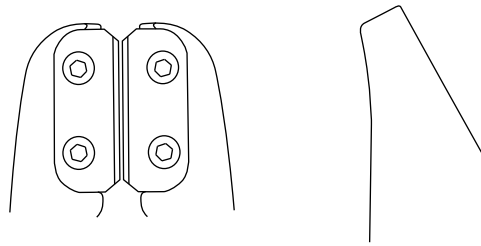
### Hercules Pin Side Cutter with Silicone Inserts DA Angled

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"

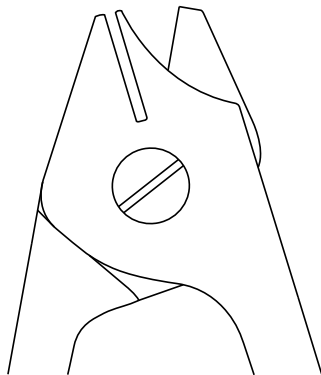
**gS 83.7912** TC insert replacement kit includes: inserts (2), screws (4) and wrench (1)

**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"]



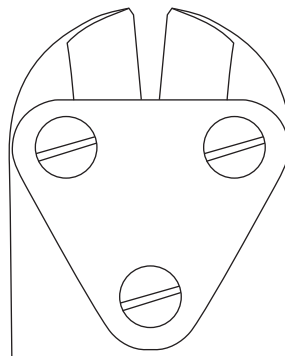
tip detail  
not to scale

For mini plates.

**gS 83.8800** 9"

**Plate Side Cutter**

max cap 1.0mm [.040"]



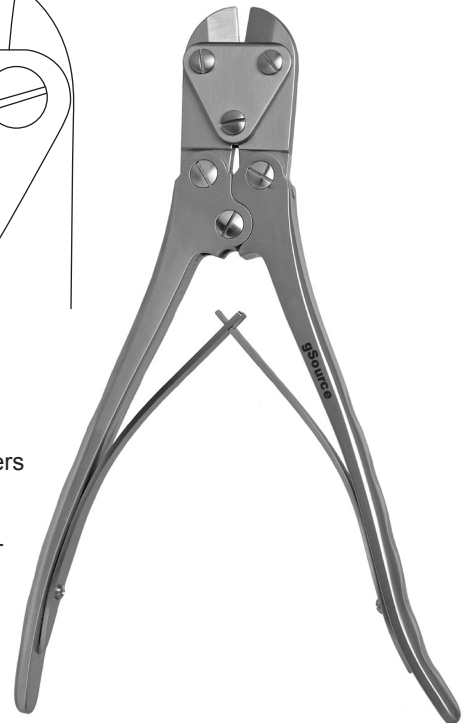
Double action delivers power to the cutter.

Side cutting jaws for mini plates.

**gS 83.8900** 9"

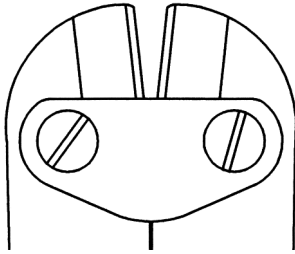
**Plate Side Cutter DA**

max cap 1.0mm [.040"]



## pin cutters, pin shears and cable cutter - 39

DA = Double Action

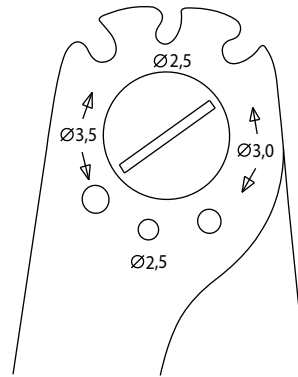


Double action delivers power to this versatile cutter.

Side cutting jaws for pins.

**gS 83.9000** 9 1/2"

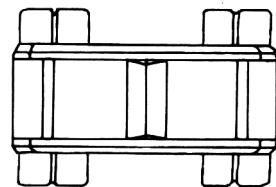
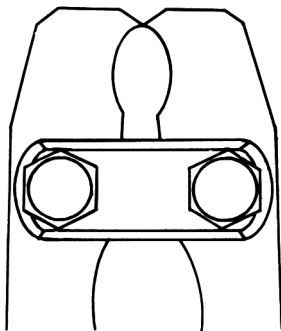
**Pin Side Cutter DA**  
max cap 3.2mm [.126"]



- 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**

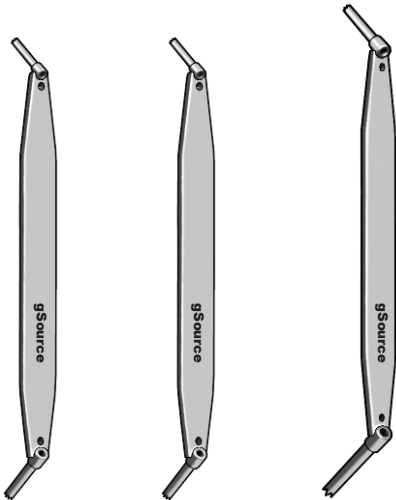


gS 86.2558

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
<b>gS 86.2500</b>	1.1mm and 1.5mm	1.5mm
<b>gS 86.2502</b>	1.5mm and 2.0mm	2.0mm
<b>gS 86.2503</b>	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 Bits	Tap for Cortical Screws	Tap for Cancellous Screws
<b>gS 86.2504</b>	2.5mm and 3.5mm	3.5mm	4.0mm
<b>gS 86.2505</b>	3.2mm and 4.5mm	4.5mm	4.5mm (malleolar)
<b>gS 86.2506</b>	3.2mm	6.5mm	6.5mm

## Double Drill Sleeve



Drill guides are color coded  
green = neutral  
gold = load

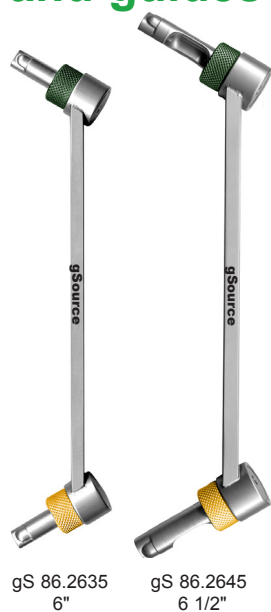
	Drill Bits	Screws
<b>gS 86.2580</b>	1.5mm	2.0mm cortical
<b>gS 86.2582</b>	2.0mm	2.7mm cortical
<b>gS 86.2584</b>	2.5mm	3.5mm cortical
<b>gS 86.2586</b>	3.2mm	4.5mm cortical/malleolar

## Double Drill Guide with neutral and load end



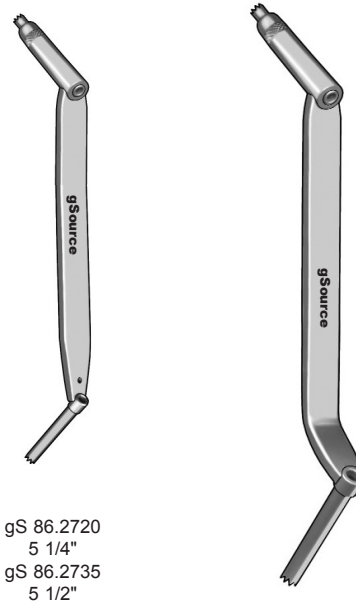
## 42 - drill sleeves and guides

Drill guides are color coded  
green = neutral  
gold = load



	Drill Bits	Cortical Screws
<b>gS 86.2635</b>	2.5mm	3.5mm
<b>gS 86.2645</b>	3.2mm	4.5mm

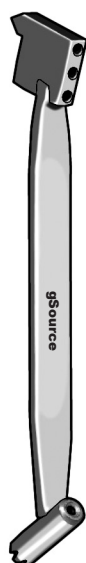
**Double Drill Guide**  
dual compression  
with neutral and load end



	Drill Bits	Cortical Screws
<b>gS 86.2720</b>	2.0mm	2.7mm
<b>gS 86.2735</b>	2.5mm	3.5mm
<b>gS 86.2745</b>	3.2mm	4.5mm

**Universal Drill Guide**

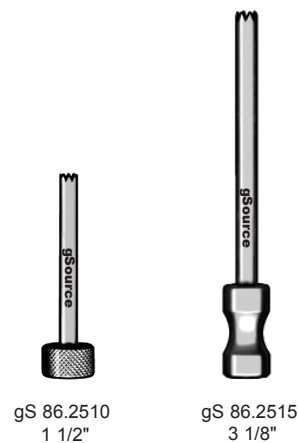
**gS 86.2745**  
7"



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
<b>gS 86.2510</b>	2.5mm	3.5mm
<b>gS 86.2515</b>	3.2mm	4.5mm

**Insert Drill Sleeve**  
serrated tips

**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"



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

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



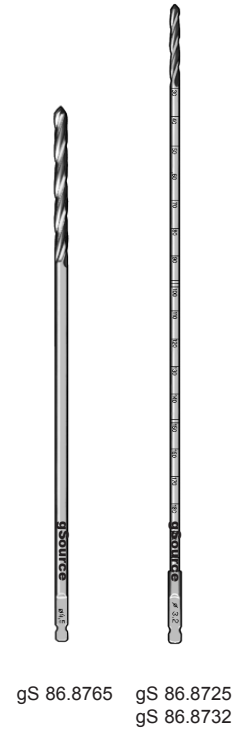
## 44 - drill bits

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
<b>gS 86.8725</b>	2.5mm	230mm	30mm
<b>gS 86.8732</b>	3.2mm	230mm	30mm
<b>gS 86.8765</b>	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
<b>gS 86.8827</b>	6"	20mm	2.0mm	1.00mm	3
<b>gS 86.8832</b>	6 1/2"	40mm	3.2mm	1.75mm	4
<b>gS 86.8835</b>	6"	35mm	3.5mm	1.30mm	4
<b>gS 86.8845</b>	6 1/2"	45mm	4.5mm	1.75mm	4
<b>gS 86.8945</b>	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
<b>gS 86.8410</b>	1.0mm	55mm	26mm
<b>gS 86.8412</b>	1.0mm	127mm	20mm
<b>gS 86.8415</b>	1.5mm*	127mm	17mm
<b>gS 86.8420</b>	2.0mm*	127mm	23mm
<b>gS 86.8424</b>	2.4mm	127mm	22mm
<b>gS 86.8425</b>	2.5mm*	127mm	22mm
<b>gS 86.8427</b>	2.7mm*	127mm	30mm
<b>gS 86.8432</b>	3.2mm*	127mm	42mm
<b>gS 86.8435</b>	3.5mm*	127mm	42mm
<b>gS 86.8440</b>	4.0mm*	127mm	45mm
<b>gS 86.8445</b>	4.5mm*	127mm	34mm
<b>gS 86.8448</b>	4.7mm*	127mm	34mm
<b>gS 86.8450</b>	5.0mm*	127mm	42mm
<b>gS 86.8460</b>	6.0mm	127mm	37mm
<b>gS 86.8532</b>	3.2mm	180mm	70mm
<b>gS 86.8535</b>	3.5mm	180mm	70mm
<b>gS 86.8545</b>	4.5mm	180mm	70mm
<b>gS 86.8560</b>	6.0mm	180mm	70mm

### Twist Drill Bits

round end  
for power drills



gS 86.8645

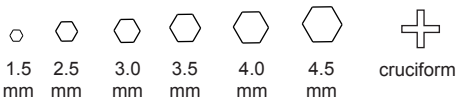
	OD	Max ID	FL
<b>gS 86.8620</b>	2.0mm	1.2mm	25mm
<b>gS 86.8627</b>	2.7mm	1.3mm	25mm
<b>gS 86.8635</b>	3.5mm	1.8mm	35mm
<b>gS 86.8640</b>	4.0mm	2.0mm	35mm
<b>gS 86.8645</b>	4.5mm	2.1mm	40mm

### gDrill Bits, Twist

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

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

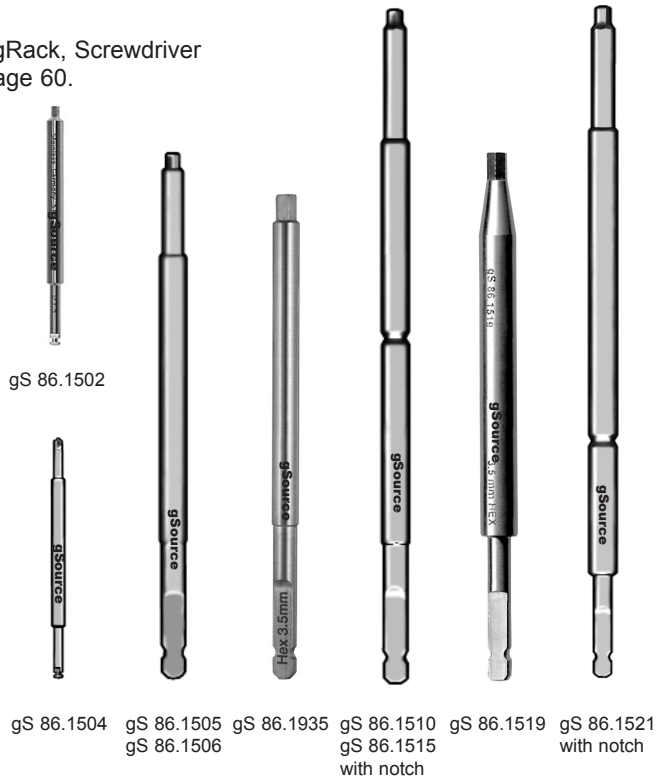
\*Fits gS 98.4050 gRack, Screwdriver  
Bits SQC – see page 60.



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

### Screwdriver Bits

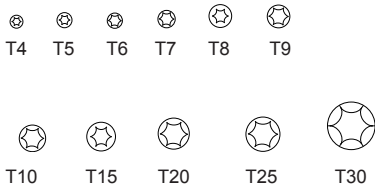
holding sleeve not included



# 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

Star Screwdriver Bits  
3 1/2"  
SQC

- 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.



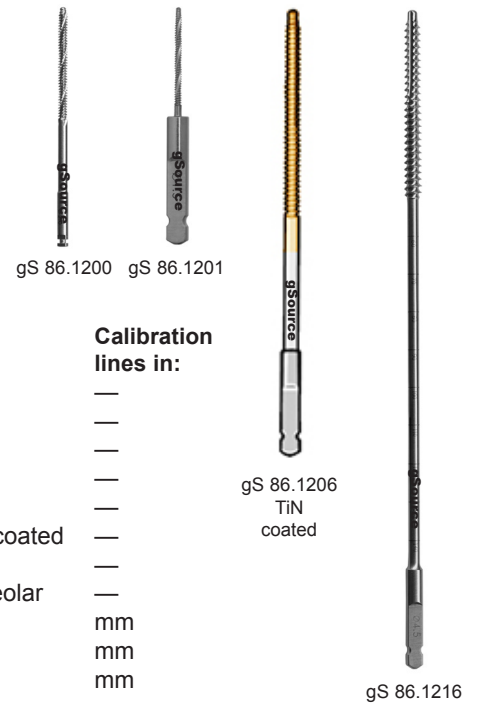
	OAL	QC Handle	Pilot OD	Screw Size
gS 86.1004	2 1/4"	MQC	1.1mm	1.5, 2.0mm
gS 86.1006	2 3/4"	SQC	2.0mm	2.7, 3.5, 4.0mm
gS 86.1010	4 1/2"	SQC	3.2mm	4.5mm malleolar
gS 86.1020	7"	T-Handle	4.3mm	4.5, 6.5mm

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:
<b>gS 86.1200</b>	2"	1.5mm	0.5mm	MQC	cortical	—
<b>gS 86.1201</b>	2"	1.5mm	0.6mm	SQC	cortical	—
<b>gS 86.1202</b>	2 1/4"	2.0mm	0.6mm	MQC	cortical	—
<b>gS 86.1203</b>	2 1/4"	2.0mm	0.6mm	SQC	cortical	—
<b>gS 86.1204</b>	4"	2.7mm	1.0mm	SQC	cortical	—
<b>gS 86.1206</b>	4 1/4"	3.5mm	1.25mm	SQC	cortical TiN coated	—
<b>gS 86.1208</b>	4 1/4"	3.5mm	1.75mm	SQC	cancellous	—
<b>gS 86.1212</b>	5"	4.5mm	2.0mm	SQC	cortical, malleolar	—
<b>gS 86.1209</b>	7"	3.5mm	1.25mm	SQC	cortical	mm
<b>gS 86.1216</b>	7"	4.5mm	1.80mm	SQC	cortical	mm
<b>gS 86.1220</b>	8"	6.5mm	2.70mm	SQC	cancellous	mm

### Taps

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

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

### Quick Coupling Handles



48 - screwdrivers

ID = Inside Diameter  
OAL = Overall Length

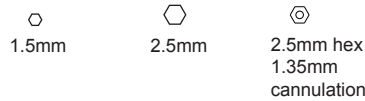


	OAL	Working End
gS 86.4550	6 3/4"	single slot
gS 86.4540	10"	single slot
gS 86.4420	7 1/2"	cruciform
gS 86.4560	10"	cruciform
gS 86.4580	10"	phillips

Screwdrivers  
with phenolic handle



gS 86.4550      gS 86.4560      gS 86.4580



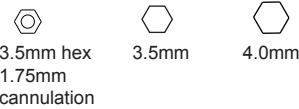
	OAL	Hex	Max ID	Holding Sleeve
gS 86.4395	7 3/4"	1.5mm	none	gS 86.4371
gS 86.4400	7 3/4"	2.5mm	none	gS 86.4373
gS 86.4410	7 3/4"	2.5mm	1.35mm	gS 86.4375, gS 86.4373
gS 86.4490	8 1/2"	2.5mm	none	gS 86.4375, gS 86.4373
gS 86.4500	10"	2.5mm	none	none
gS 86.4585	10 1/2"	2.5mm	none	gS 86.4375, gS 86.4373

Hexagonal Screwdrivers



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

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



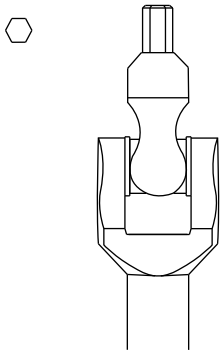
gS 86.4495 with notch phenolic handle cann.

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



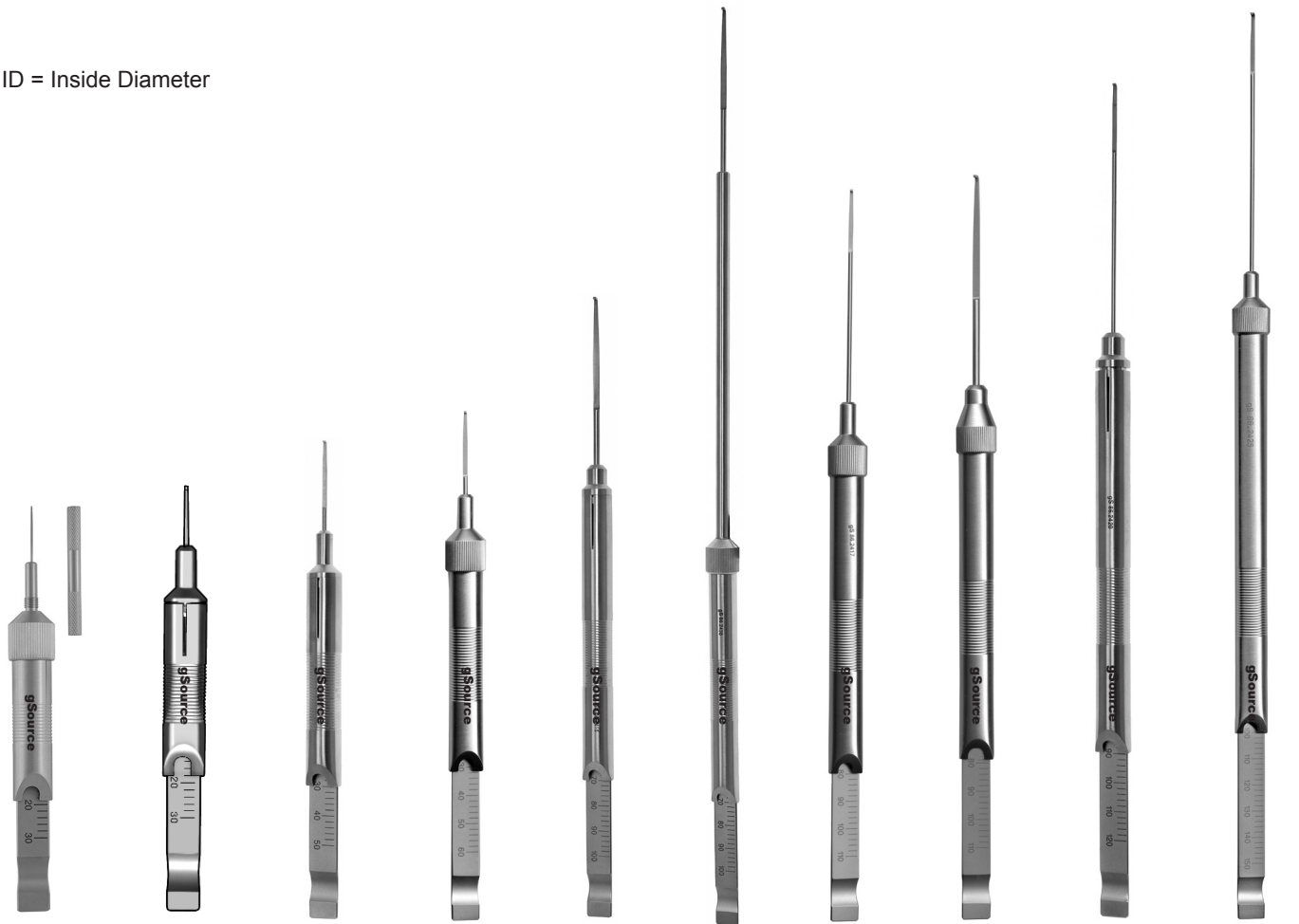
gS 86.9914 10"

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.

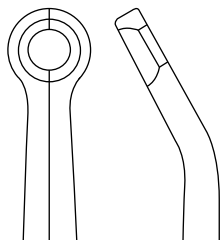
- OD Screw Shaft**
- gS 86.6104** 1.2mm
  - gS 86.6108** 1.5mm-2.7mm
  - gS 86.6110** 3.5mm-6.5mm

## Screw Holding Forceps 3 1/2"



## 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

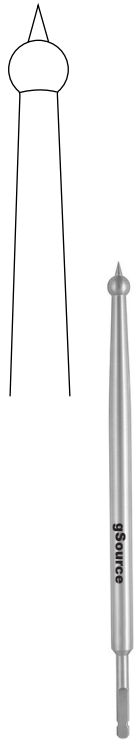


## ball spikes and spiked disc - 53

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**

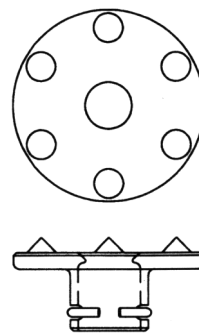
sharp point  
straight, phenolic handle

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.



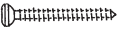

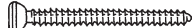








**gS 87.0022** 25mm

### **Spiked Disc**

6 sharp points

Guide to Fracture Management Instruments

Type of Screw

Cortical	Cortical	Cortical	Cortical	Cortical fine thread	Cancellous coarse thread	Cancellous	Cortical	Malleolar	Cancellous	Cancellous
1.5mm	2.0mm	2.7mm	3.5mm	3.5mm	3.5mm	4.0mm	4.5mm	4.5mm	6.5mm	6.5mm
										

diameter

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	3.5mm	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 86.8220 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	2.0mm 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 86.1212	gS 86.1220	gS 86.1220
1.5mm	2.0mm	2.7mm	fine thread 3.5mm	coarse thread 3.5mm	3.5mm	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 86.1010	gS 86.1020	gS 86.1020
1.1mm	1.1mm	2.0mm	2.0mm	2.0mm	2.0mm	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 86.0040 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
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## Driver Type

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

Cruciform

○

2.5mm Hex

2.5mm Hex

2.5mm Hex

2.5mm Hex

3.5mm Hex

3.5mm Hex

3.5mm Hex

3.5mm Hex



## 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.

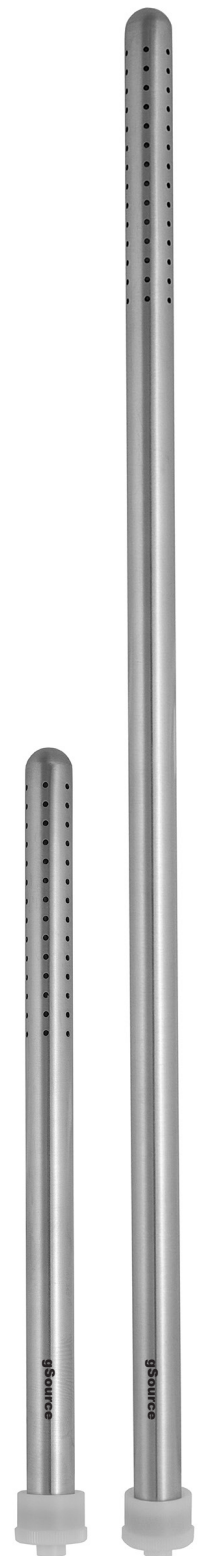
Dispensers store and dispense smooth (unthreaded) wires and pins only.

	OAL Dispenser	OAL Wire/Pin Stored	OD Wire/Pin Stored	Max Qty Stored - Not Dispensed	Max Qty Stored - Dispensed
<b>gS 98.2002</b>	6 3/4"	4", 5", and 6"	0.7mm [.028"]	120	24
<b>gS 98.2003</b>	6 3/4"	4", 5", and 6"	0.9mm [.035"]	78	18
<b>gS 98.2005</b>	6 3/4"	4", 5", and 6"	1.1mm [.045"]	54	18
<b>gS 98.2007</b>	6 3/4"	4", 5", and 6"	1.4mm [.054"]	30	18
<b>gS 98.2009</b>	6 3/4"	4", 5", and 6"	1.6mm [.062"]	24	18
<b>gS 98.2011</b>	13"	9" and 12"	0.9mm [.035"]	78	30
<b>gS 98.2013</b>	13"	9" and 12"	1.1mm [.045"]	54	24
<b>gS 98.2015</b>	13"	9" and 12"	1.4mm [.054"]	30	18
<b>gS 98.2017</b>	13"	9" and 12"	1.6mm [.062"]	24	18
<b>gS 98.2019</b>	13"	9" and 12"	2.0mm [.079"]	12	6
<b>gS 98.2021</b>	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
<b>gS 98.5210</b>	5 1/2"	4"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
<b>gS 98.5230</b>	7 1/2"	6"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
<b>gS 98.5240</b>	10 1/2"	9"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
<b>gS 98.5245</b>	10 1/2"	9"	1.6mm [.062"]	18	6
			2.0mm [.079"]	12	6
			2.0mm [.079"]	12	6
			2.4mm [.094"]	6	6
<b>gS 98.5250</b>	13 1/2"	12"	0.9mm [.035"]	60	18
			1.1mm [.045"]	30	12
			1.4mm [.054"]	24	12
			1.6mm [.062"]	18	6
<b>gS 98.5260</b>	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 98.5206** replacement cap only, plastic, white, screw on style

#### Four Chambered K-Wire and Pin Dispenser

stainless steel

plastic screw on cap, white



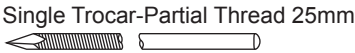
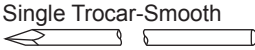
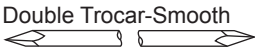
gS 98.5210

gS 98.5240

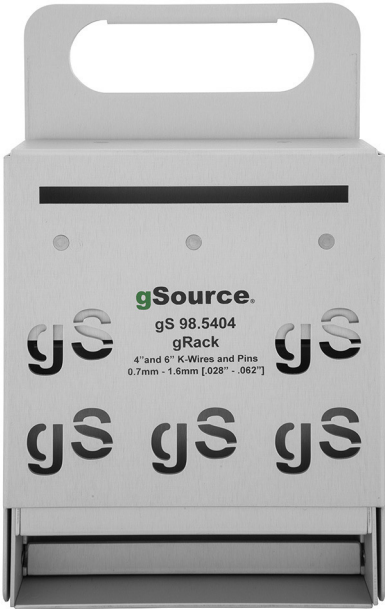
gS 98.5260



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.

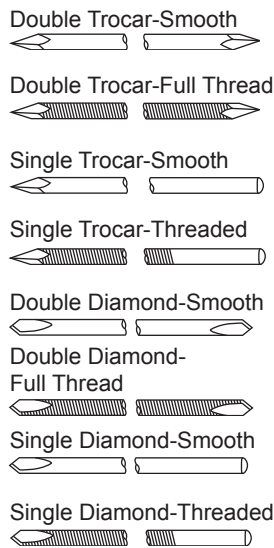
Closed position for storage.  
8 3/4" x 5 1/2" x 1 1/2"



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"]	
78.2105	78.2110	78.2120	78.2140	78.2130	78.5500	78.5530	78.5560	78.5590	78.5620	78.5650	78.5680	
				78.4030	78.8500	78.8530	78.8560	78.8590	78.8620	78.8650	78.8680	
78.2500	78.2510	78.2520	78.2540	78.2530	78.6100	78.6130	78.6160	78.6190	78.6220	78.6250	78.6280	
				78.9116	78.8700	78.8730	78.8760	78.8780	78.8820	78.8850	78.8880	
78.3100	78.3110	78.3120	78.3140	78.3130	78.7000	78.7030	78.7060	78.7090	78.7120	78.7150	78.7180	
					78.8300	78.8330	78.8360	78.8390	78.8420	78.8450	78.8480	
78.3400	78.3410	78.3420	78.3440	78.3430	78.7780	78.7630	78.7660	78.7690	78.7720	78.7750	78.7782	
					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:

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

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

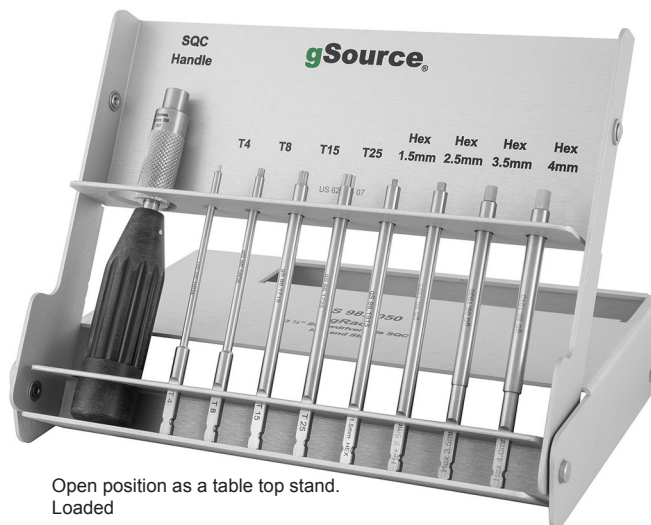
<b>SQC Hex Bits</b>	<b>Size</b>	<b>OAL</b>
<b>gS 86.1915</b>	1.5mm	3 1/2"
<b>gS 86.1925</b>	2.5mm	3 1/2"
<b>gS 86.1935</b>	3.5mm	3 1/2"
<b>gS 86.1940</b>	4.0mm	3 1/2"

**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.

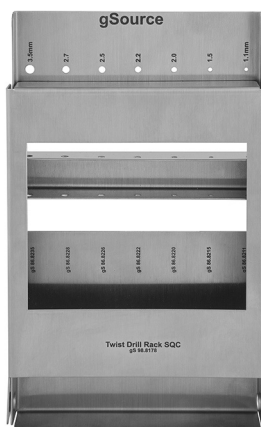
Drill bit diameter and reorder numbers are marked inside rack for easy identification.

Rack stores 1 each of the following gSource part numbers:

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

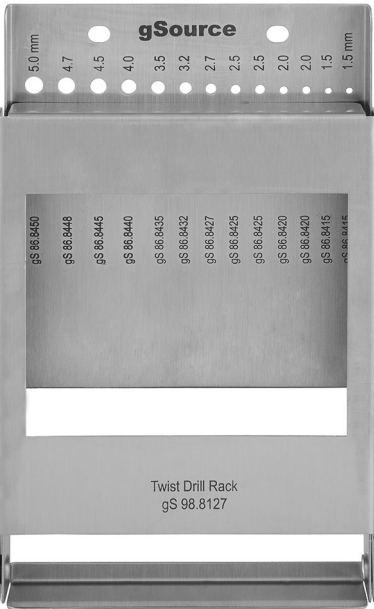


Open position as a table top stand.  
Loaded

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
<b>gS 86.8415</b>	1.5mm	127mm	2
<b>gS 86.8420</b>	2.0mm	127mm	2
<b>gS 86.8425</b>	2.5mm	127mm	2
<b>gS 86.8427</b>	2.7mm	127mm	1
<b>gS 86.8432</b>	3.2mm	127mm	1
<b>gS 86.8435</b>	3.5mm	127mm	1
<b>gS 86.8440</b>	4.0mm	127mm	1
<b>gS 86.8445</b>	4.5mm	127mm	1
<b>gS 86.8448</b>	4.7mm	127mm	1
<b>gS 86.8450</b>	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

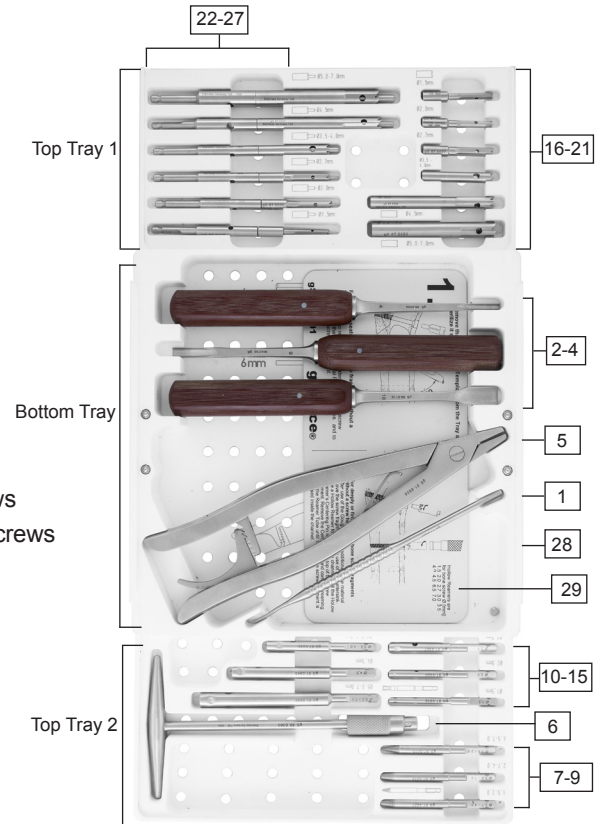


## 62 - containers, instrument set for screw extraction

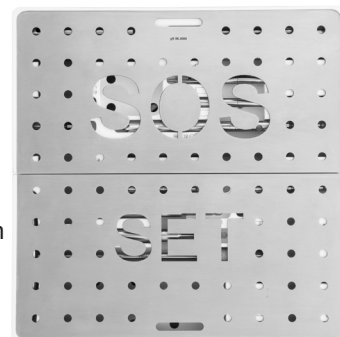
Useful for removal of damaged and broken bone screws.

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
<b>optional</b>		
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
<b>optional</b>		
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
<b>optional</b>		
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

[illegible]

## gSource

gSource is committed to putting the finest instruments into the hands of surgeons and their teams.

Not all instruments are created equal. Adequate for the job is, in reality, inadequate. A better instrument reduces distractions and facilitates operations. A better instrument helps a surgeon perform at his/her best. A better instrument leads to better results. gSource provides better instruments.

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Founded in 1999, gSource is more than a source for quality instrumentation. gSource is an advocate for the orthopedic and spinal community. We can be relied upon to provide superior instrumentation and do so in a time-critical fashion.

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### gSource Verified Quality

Every gSource instrument must pass detailed Quality Assurance tests before it can be sold. Instruments are tested for quality of material, workmanship, function, pattern consistency and critical dimensions.

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### Guarantee

All standard instruments are guaranteed for life against manufacturing defects of material and workmanship. Any instrument proving to be defective will be replaced or the purchase price refunded.

1. Tungsten carbide inserts are guaranteed for three years. Replaceable parts, other than springs, are guaranteed for one year. Replaceable springs are guaranteed for life against manufacturing defects of material and workmanship.
2. This guarantee is void if instruments are altered or not maintained or repaired properly or if they are not used for their intended surgical purpose.
3. Any unused instrument may be returned for full credit within 90 days of invoice date.

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