

# Tungsten Carbide

## Surgical Instruments





Precision Surgical Ltd has supplied instruments and retractors to the health care systems throughout Europe and the UK for more than 10 years. The sales and marketing team have over 35 years' experience serving this sector. Their expertise helped us to produce this catalogue of the most regularly used TC Instruments for all surgical specialities.

This allows us to keep shelf stock of these common items and also reduces manufacturing costs based on larger production runs. We are delighted to pass these savings for high quality Tungsten Carbide instruments to our customers.

If you cannot find what you are looking for in this specially selected range, please do not hesitate to contact our team of friendly advisers, who will assist in finding your instrument of choice. We source from over 10 branded manufacturers and include our very own OEM offerings.

Tungsten Carbide has long been recognised for its strength and durability. As such, it offers added functionality whenever cutting or gripping is priority in both general and specialist surgery.

All our TC instruments have gold coloured Titanium Nitride (ceramic) coatings on the handles for ease of recognition against standard instruments. The majority of manufacturers still use gold plating techniques, this is fine for new instruments but as time goes by the coating is slowly eroded from use and reprocessing. Our gold ceramic coating is actually 10 times harder than the steel it covers and will therefore remain visible for the entire lifetime of the instrument.

**TC scissors** are specially made to perform better and stay sharper for a significantly longer period of time when compared to standard stainless steel scissors. The unique edging process permanently bonds the tungsten carbide to the scissors giving it a smooth and controlled performance. Moreover, our scissors provide the users with a sensitive feel and can eliminate problems associated with tissue slippage during cutting.

**TC needle holders'** teeth are precisely ground to hold the needle securely and these holders provide the surgeon with a gentle but firm grasp. Our solid tungsten carbide inserts have a precisely ground, virtually indestructible pyramid profile, that is harder than the needles they hold. The pyramid profile retains its original shape much longer than other needle holders.



Precision Surgical Ltd provide a **Lifetime Manufacturer's Warranty** for all surgical instruments. TC instruments are only guaranteed for 2 years or 1,600 Autoclaves, replacement TC inserts are available for the majority of our TC range at a reasonable cost (prices available upon request). Renewed TC inserts will carry the same guarantee as above. Autoclave cycles are approved to 134 °C for 3 minutes holding time or 134°C for 18 minutes holding time.

If any Precision Surgical reusable product becomes damaged - cracks, bends, deforms, corrodes or fails whilst being used for the intended purpose within the guarantee period, we will repair it or replace it free of charge.

#### Reusable Tungsten Carbide Instruments:

Tungsten Carbide Range	Guarantee	Autoclave Cycles
• The cutting, shearing, grinding and rasping edges (excluding Tungsten Carbide)	1 year	800
• The cutting, shearing, grinding and rasping edges (Tungsten Carbide)	2 years	1,600





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# SCISSORS

## HEGEMANN

Superfine tipped scissors for delicate vascular and coronary applications.  
Blade length = 12mm.

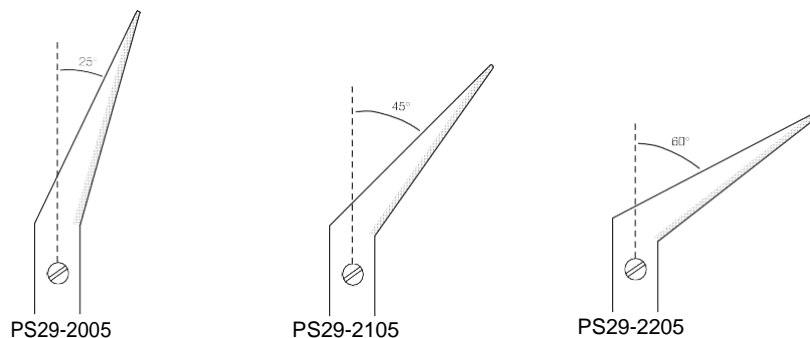


PS31-019 - HEGEMANN - 25° ANGLE - LENGTH - 7.5" (19CM) TC  
PS31-119 - HEGEMANN - 45° ANGLE - LENGTH - 7.5" (19CM) TC  
PS31-219 - HEGEMANN - 60° ANGLE - LENGTH - 7.5" (19CM) TC  
PS31-319 - HEGEMANN - 90° ANGLE - LENGTH - 7.5" (19CM) TC  
PS31-419 - HEGEMANN - 120° ANGLE + STABILISER BAR 7.5" (19CM) TC



## DEBAKEY – POTTS SMITH

Debakey - Classic scissors for cardio/pulmonary and deep dissection.  
The variety of angled jaws allow easier use in areas of difficult access, particularly in vascular surgery. Blade length = 23mm



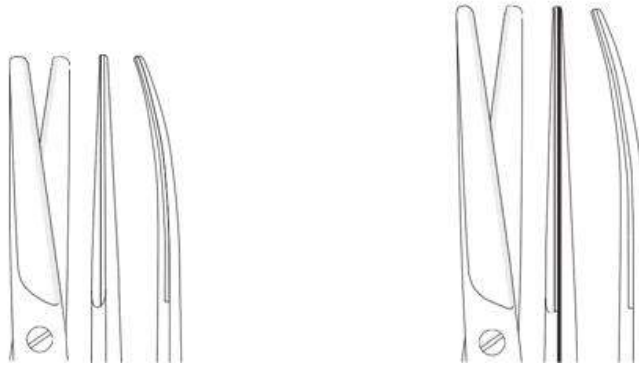
PS29-2005 - DEBAKEY POTTS SMITH - 25° ANGLE - LENGTH - 9" (19CM) TC  
PS29-2105 - DEBAKEY POTTS SMITH - 45° ANGLE - LENGTH - 9" (19CM) TC  
PS29-2205 - DEBAKEY POTTS SMITH - 60° ANGLE - LENGTH - 9" (19CM) TC  
PS29-2215 - DEBAKEY POTTS SMITH - 60° ANGLE - LENGTH - 10" (22CM) TC





## MAYO - GENERAL

Mayo – General purpose fascia, skin and muscle dissection. The outer blade surface is rounded for probing and blunt dissection



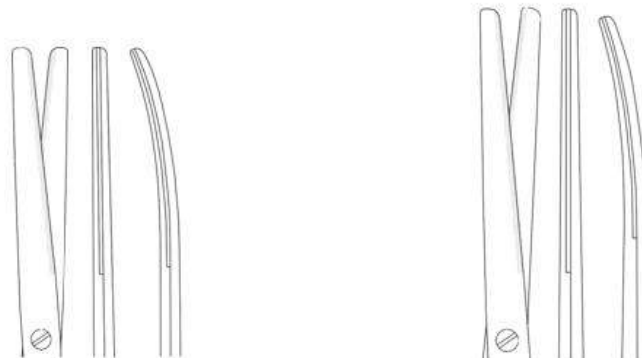
PS19-3205 – MAYO FLAT STR - 5.5" (14.5CM) BL/BL TC  
PS19-3105 – MAYO FLAT CVD - 5.5" (14.5CM) BL/BL TC

PS19-3210 - MAYO FLAT STR - 6.75" (17CM) BL/BL TC  
PS19-3110 - MAYO FLAT CVD - 6.75" (17CM) BL/BL TC



## METZENBAUM

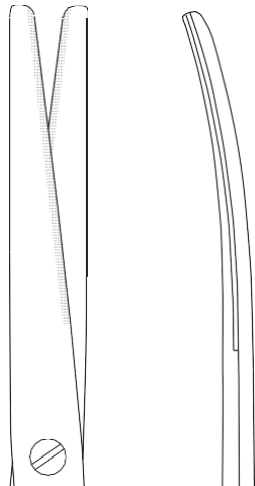
Metzenbaum – General purpose, light application scissors, with a slim profile for access to narrow cavities. Most suitable for delicate tissue and dissection.



PS19-3905 - METZENBAUM CVD LENGTH - 5.5" (14CM) BL/BL TC  
PS19-3910 - METZENBAUM CVD LENGTH - 7" (18CM) BL/BL TC  
PS19-3915 - METZENBAUM CVD LENGTH - 8" (20CM) BL/BL TC  
PS19-3920 - METZENBAUM CVD LENGTH - 9" (23CM) BL/BL TC  
PS19-3930 - METZENBAUM CVD LENGTH - 12" (30CM) BL/BL TC  
PS19-4210 - METZENBAUM CVD LENGTH - 7" (18CM) BL/BL TC (**delicate**)



## NELSON LOBECTOMY



Nelson Lobectomy – Heavier Metzenbaum scissor. Originally designed for Cardiac & Lung functions. Also used for deep dissection, especially in Rectal and Gynaecology

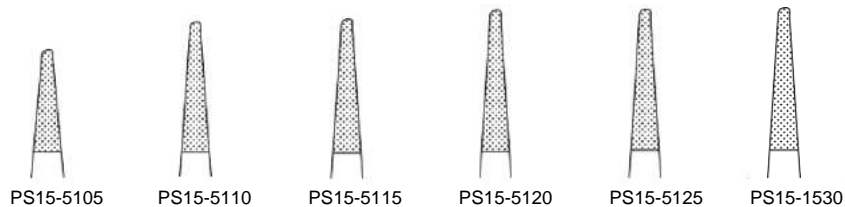


PS19-4605 - NELSON CURVED 11.25" (28.5CM) BLUNT T.C.

# NEEDLEHOLDERS

## CRILE WOOD

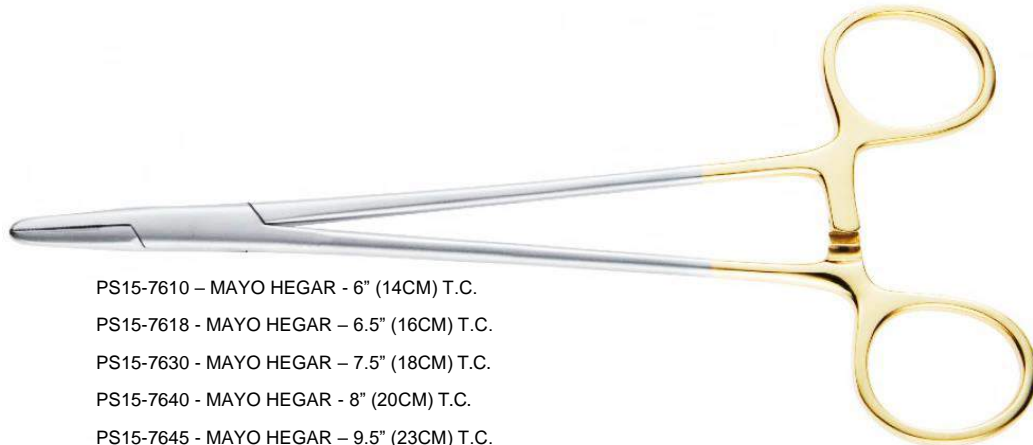
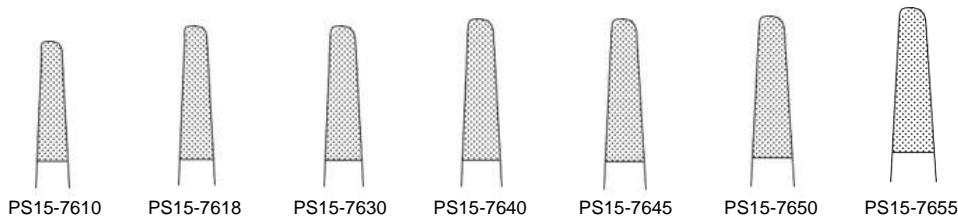
Crile wood - Similar to Mayo Hegar, with a general-purpose fine jaw suitable for a variety of applications. Suture range 4/0 to 6/0.



- 50-5105 - CRILEWOOD - 6" (15CM) T.C.
- 50-5110 - CRILEWOOD - 7" (17.5CM) T.C.
- 50-5120 - CRILEWOOD - 8" (20CM) T.C.
- 50-5130 - CRILEWOOD - 9" (23CM) T.C.
- 50-5140 - CRILEWOOD - 10" (25CM) T.C.
- 50-5150 - CRILEWOOD - 12" (30CM) T.C.

## MAYO HEGAR

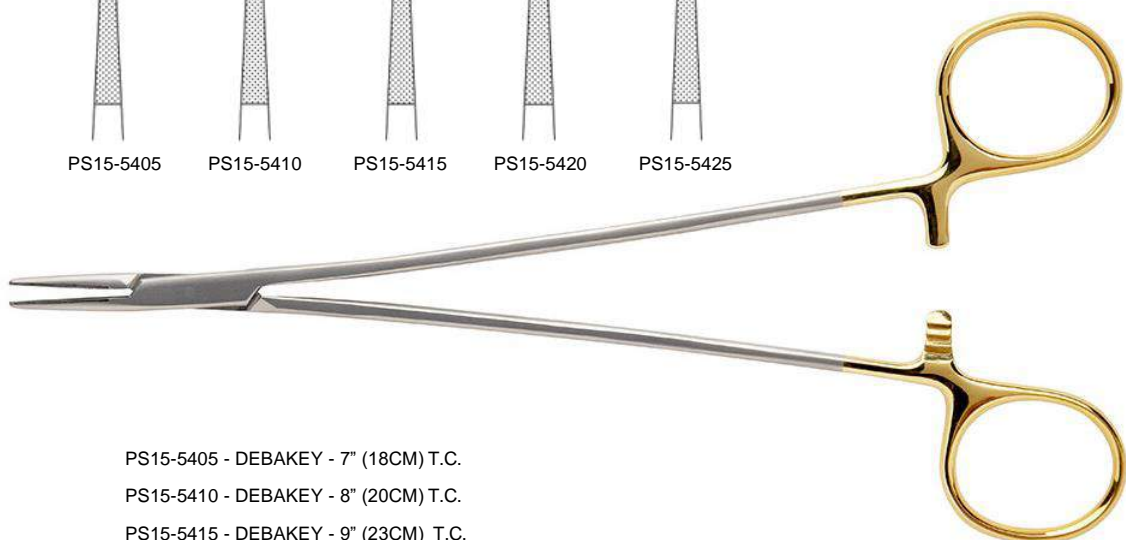
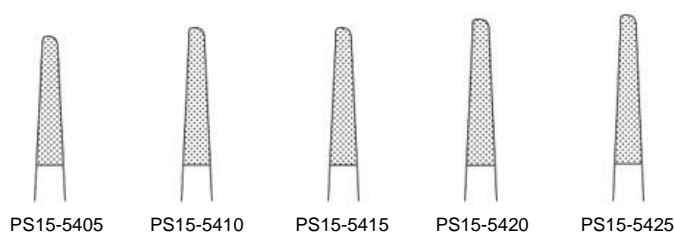
Mayo Hegar - The most popular needle holder throughout most disciplines of surgery. Powerful jaws and shanks provide excellent grip and control. Suture range 1/0 to 4/0.



- PS15-7610 - MAYO HEGAR - 6" (14CM) T.C.
- PS15-7618 - MAYO HEGAR - 6.5" (16CM) T.C.
- PS15-7630 - MAYO HEGAR - 7.5" (18CM) T.C.
- PS15-7640 - MAYO HEGAR - 8" (20CM) T.C.
- PS15-7645 - MAYO HEGAR - 9.5" (23CM) T.C.
- PS15-7650 - MAYO HEGAR - 10" (25CM) T.C.
- PS15-7655 - MAYO HEGAR - 12" (30CM) T.C.

## DEBAKEY

Debakey - Similar to Crile Wood but with a different jaw profile, many applications but ideal for cardiovascular use. Suture range 4/0 to 6/0.

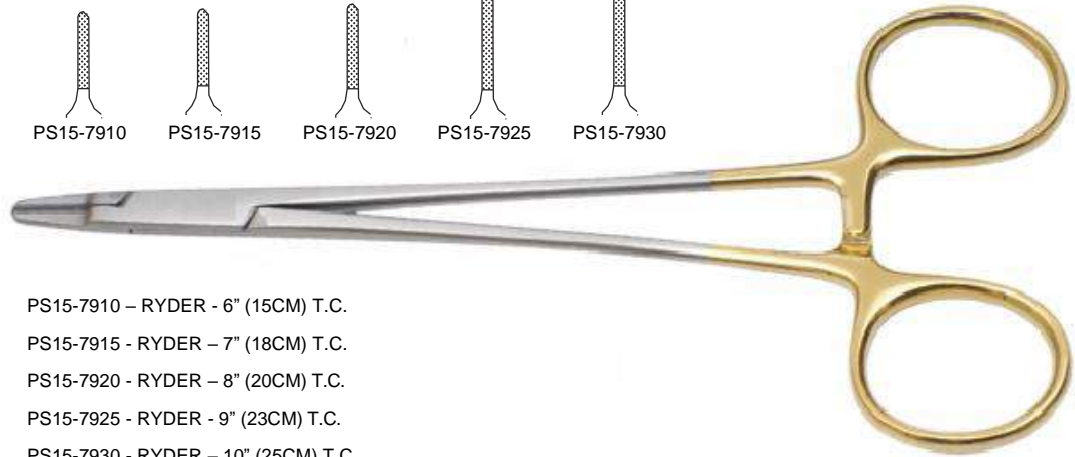
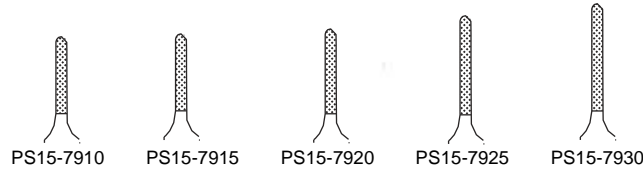


- PS15-5405 - DEBAKEY - 7" (18CM) T.C.
- PS15-5410 - DEBAKEY - 8" (20CM) T.C.
- PS15-5415 - DEBAKEY - 9" (23CM) T.C.
- PS15-5420 - DEBAKEY - 10" (25CM) T.C.
- PS15-5425 - DEBAKEY - 12" (30CM) T.C.



## RYDER

Ryder - Featuring a small, very narrow jaw allowing delicate needle control and access into narrow, limited areas. Larger sizes are suited for cardio applications, whilst the shorter versions are popular in neuro and vascular anastomosis. Suture range 4/0 to 6/0.



PS15-7910 – RYDER - 6" (15CM) T.C.

PS15-7915 - RYDER – 7" (18CM) T.C.

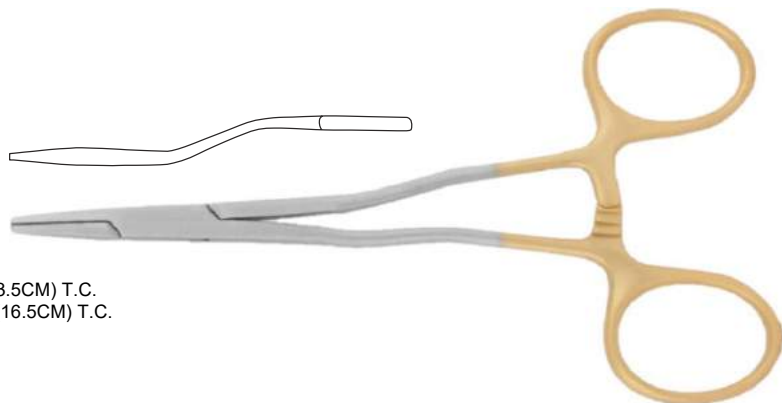
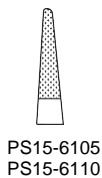
PS15-7920 - RYDER – 8" (20CM) T.C.

PS15-7925 - RYDER - 9" (23CM) T.C.

PS15-7930 - RYDER – 10" (25CM) T.C.

## KILNER

Kilner – Classic British design with offset shanks for easier surface skin suturing. Used in a variety of surgical specialities. Suture range 4/0 to 6/0.



PS15-6105 – KILNER - 5" (13.5CM) T.C.

PS15-6110 - KILNER – 6.5" (16.5CM) T.C.

## JULIAN

Julian – A durable needle holder that promises precision and control, the design ensures a tight grip of the heavier needles.

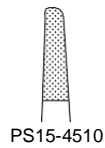


50-2515 – JULIAN – 8.25" (21CM) T.C.

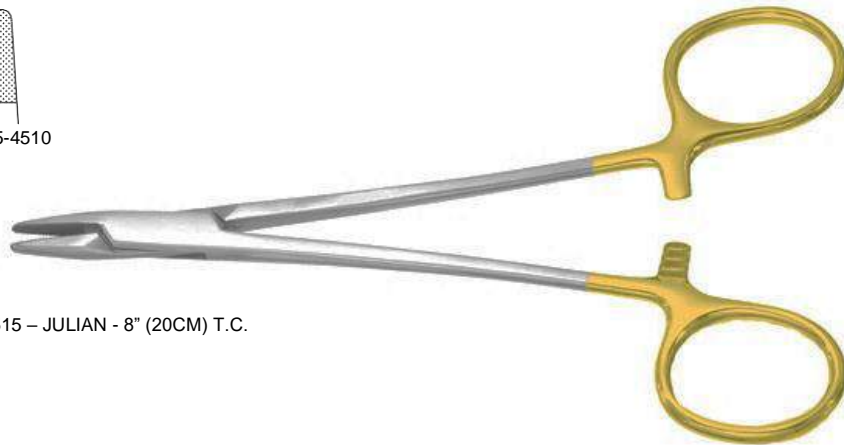
50-2518 – JULIAN CVD - 8.25" (21CM) T.C

## BAUMGARTNER

Baumgartner - Lightweight general skin and plastic suturing. Suture range 4/0 to 6/0.

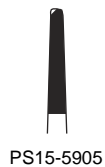


50-2515 – JULIAN - 8" (20CM) T.C.



## HALSEY

Halsey – These have a smooth, serrated jaw and are a popular choice for plastic surgery. Suture range 4/0 to 6/0.



PS15-5905 – HALSEY – 5" (12.5CM) T.C.



## DERF

Derf – Short length and stubby jaw makes this ideal for plastic, skin, maxillo facial and a variety of ENT applications. Suture range 4/0 to 6/0.

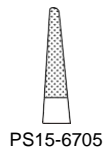


PS15-5605 – DERF – 4.75" (12CM) T.C.



## LAWRENCE

Lawrence – Short length needle holder suitable for tubing clamps, maxillo facial, plastic and ENT. Suture range 4/0 to 6/0.



PS15-6705 – Lawrence – 6" (15CM) T.C.



## WEBSTER

Webster – Smooth, non-serrated jaws preferred for plastic and general suturing. Suture range 6/0 to 8/0.

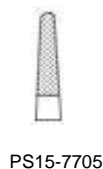


PS15-8805 – Webster – 5.25" (13CM) T.C.



## NEIVERT

Neivert – Incorporates an offset thumb ring similar to Gillies and Foster. Used in plastic, maxillo facial and surface suturing. Suture range 4/0 to 6/0.



PS15-7705 – Neivert – 5" (12CM) T.C.



## ROCHESTER

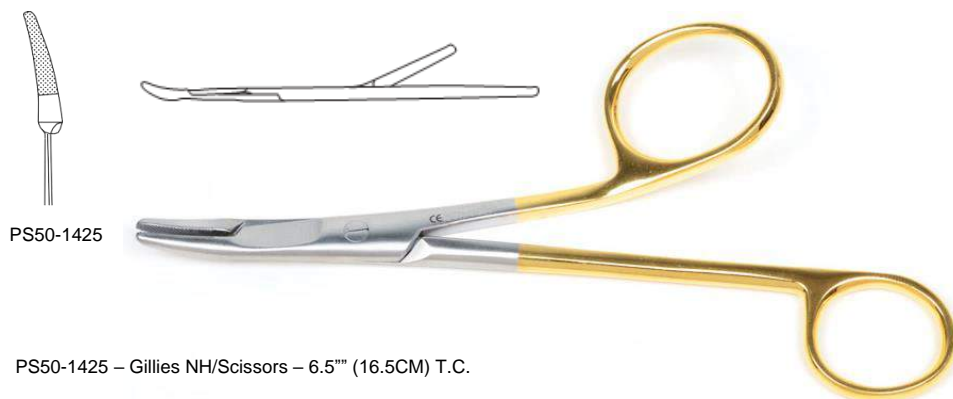
Rochester – Light and delicate needle holder. Suture range 5/0 to 6/0.



PS50-2461 – Rochester – 7" (18CM) T.C.

## GILLIES NH / SCISSORS

Gillies NH/Scissors – Designed for surface skin and plastic surgery, includes both scissor and needle holder with an offset thumb ring for additional control. Suture range 4/0 to 6/0.



PS50-1425 – Gillies NH/Scissors – 6.5" (16.5CM) T.C.

## CASTROVIEJO

Castroviejo - Originally designed for ophthalmic use, but the large choice of lengths, jaw sizes, and handle shapes, have made these very popular for dental, plastics, neuro, hand and maxillo facial applications also. 21cm version is ideal for micro obstetric applications. Suture range 5/0 to 7/0.



PS50-1444  
PS50-1444  
(Delicate)

PS50-1449  
PS50-1449  
(Heavy)

PS50-1444 – Castroviejo - Delicate – 7" (18CM) T.C.  
PS50-1442 – Castroviejo - Delicate – 8" (21CM) T.C.  
PS50-1444 – Castroviejo - Heavy – 7" (18CM) T.C.  
PS50-1442 – Castroviejo - heavy – 8" (21CM) T.C.

## JACOBSON

Jacobson – similar to the Castroviejo, the Jacobson was designed for ophthalmic use, but the large choice of lengths, jaw sizes, and handle shapes, have made these very popular for plastics, neuro, vascular, hand and maxillo facial. Suture range 5/0 to 7/0.



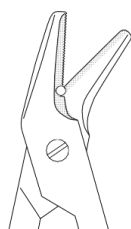
PS50-1489 – Jacobson - Delicate – 7" (18CM) T.C.  
PS50-1490 – Jacobson - Delicate – 8" (21CM) T.C.  
PS50-1470 – Jacobson - Heavy – 7" (18CM) T.C.  
PS50-1471 – Jacobson - heavy – 8" (21CM) T.C.

# WIRE INSTRUMENTS

## UNIVERSAL WIRE CUTTING SCISSORS

Universal Wire Cutting Scissors - General purpose use and for cutting wires.

The serrated edge provides grip whilst shearing. Not suitable for plates or Orthopaedic wires.



PS19-4705



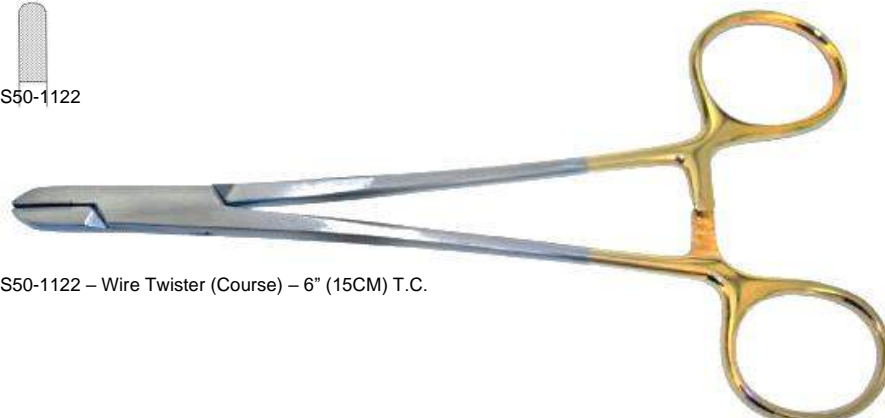
PS19-4705 – Universal Wire Cutting Scissors – 5" (12CM) T.C.

## WIRE TWISTERS (COURSE)

Wire Twister (Course) – Designed for a variety of applications, especially where additional grip is required.



PS50-1122



PS50-1122 – Wire Twister (Course) – 6" (15CM) T.C.



### BERRY WIRE TWISTER

Berry Wire Twister – This heavy pattern twister is used by Orthopedics to twist wires and remove pins.

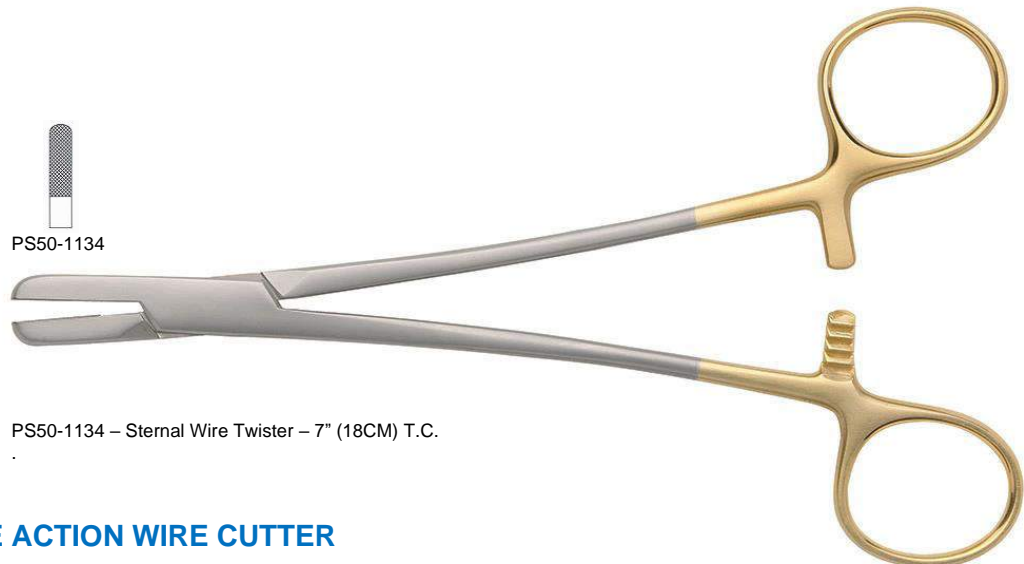


PS50-1303

PS50-1303 – Berry Wire Twister – 7.25" (18.5CM) T.C.

### STERNAL WIRE TWISTER

Sternal Wire Twister – Designed for closing the Sternum with wire after open chest surgery.



PS50-1134

PS50-1134 – Sternal Wire Twister – 7" (18CM) T.C.

### DOUBLE ACTION WIRE CUTTER

Double Action Wire Cutter– The compound action allows for additional cutting power with minimal effort compared to our standard wire cutters. Wire size recommendation



PS50-1030  
PS50-1125

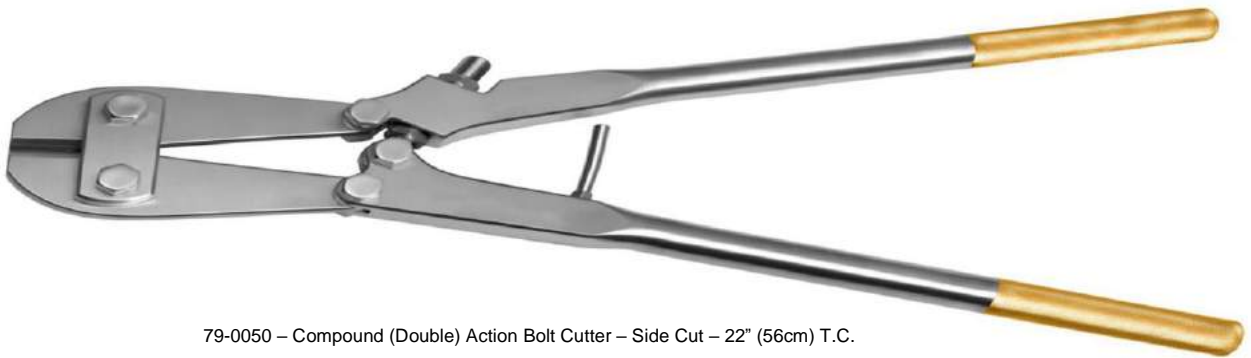
PS50-1030 – Compound (Double) Action Wire Cutter – 8" (21.5CM) T.C  
PS50-1125 – Compound (Double) Action Wire Cutter – 7" (18CM) T.C.

## BOLT CUTTERS

Double Action Wire Cutter– The compound action allows for additional cutting power with minimal effort compared to our standard wire cutters. Rod size recommendation up to 6mm



PS50-1060 – Compound (Double) Action Bolt Cutter – 18.5" (47cm) T.C

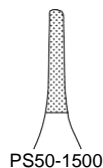


79-0050 – Compound (Double) Action Bolt Cutter – Side Cut – 22" (56cm) T.C.

## TC FORCEPS

### ADSON TISSUE FORCEPS

Tungsten Carbide Tissue forceps are available in serrated or toothed Jaw and provide a durable, non-slip grip aiding dissection and a reduction in hand fatigue.



PS50-1500



PS50-1503

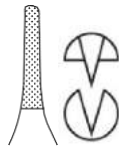


PS50-1500 – Adson Tissue Forceps – 4.75" (12CM) T.C.

PS50-1503 – Adson Tissue Forceps – 1 x 2 Teeth – 4.75" (12CM) T.C.

### GILLIES TISSUE FORCEPS

Gillies Forceps 1x2 Teeth Serrated are thumb forceps often used in small surgical sites to grasp tissue. They have fine, narrow jaws that are commonly used in plastic surgery



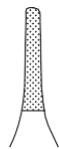
PS50-1537

PS50-1537 – Gillies Tissue Forceps – 1 x 2 Teeth – 6" (15CM) T.C.



### McINDOE TISSUE FORCEPS

McIndoe Forceps 1x2 Serrated are thumb forceps often used in small surgical sites to grasp tissue. They have fine, narrow jaws that are commonly used in plastic surgery



PS50-1513

PS50-1513 – McIndoe Tissue Forceps – 6" (15CM) T.C.



### CUSHING BAYONET FORCEPS

Cushing Bayonet Forceps are offset thumb forceps often used in small or deeper surgical sites to grasp tissue, whilst allowing for greater visualisation. They have narrow jaws and utilised in most surgical specialities, mainly plastic surgery.



PS50-1525

PS50-1525 – Cushing Bayonet Forceps – Cross Serrated – 7" (18CM) T.C.



### GERALD TISSUE FORCEPS

Gerald Tissue Forceps are very fine and used for tissue dissection, additional grip and control are provided by the large grooved shafts. They have fine, narrow jaws that are commonly used in plastic surgery.



PS50-1525

PS50-1525 – Gerald Tissue Forceps – 1mm Tip – 7" (18CM) T.C.





# Colour Coded Surgical Instruments

(In response to NICE interventional procedure guidance 196 - Patient safety and reduction of risk of transmission of Creutzfeldt-Jakob disease (CJD) via interventional procedure)

Precision Surgical Ltd, a supplier of Quality Instruments, now applies an innovative permanent scratch-resistant surface coating technology to new surgical instruments.

The ceramic coating is long-lasting, durable and assists in the **immediate visual identification of surgical instruments**. The coating is completely scratch resistant and will last the lifetime of the instrument.

The specific colouring of every instrument encourages segregation of individual instruments (and instrument sets). It also assists in eliminating instrument migration across the standard surgical sets during the processing of the instruments and sets. All new instruments can be colour-coded.

## Features & Benefits

- The coating improves the performance, protects cutting and sliding surfaces and provides a distinct visual confirmation of "Prion Free Instrumentation"
- Provides a bio-compatible hard ceramic layer, increasing scratch resistance & overall life
- Choice of colours available, ensuring every instrument is immediately visually identifiable
- Unique coating technology, predominantly used for implant technology & to prolong the life of surgical instruments
- Titanium coatings enable the properties of the underlying surface to be retained
- The coating is very minimal (less than 5 microns), therefore not affecting the integrity or original purpose of the instrument.
- Can be applied to the entirety of each instrument or specific section (some surgeons prefer distal end to remain original colour)

The coating is not affected by and does not affect the sterilisation process of surgical instruments. Standard sterilisation processes are used (according to HTM 2010 and HTM 2030)

Sterilisation Baskets can also be colour coded so full sets are visually identified with ease.



# Precision Surgical adopt Precision Laser marking with 2D GS1 Barcodes.



The retail industry has been using Barcodes for several decades. The pharmaceutical industry introduced similar standards over the last 10 years. The medical device industry has been adopting a more advanced barcoding technology, GS1 Data Matrix. This is a compact, two-dimensional barcode which holds a large amount of data in a small space.

Precision Surgical Ltd is proud to announce fully compliant GS1 and Scan4safety laser mark services. This service is available immediately for easy and transparent traceability of its entire Medical Device range. New equipment bought from Precision Surgical can and will be supplied with an easy to read 2D barcode, inclusive in the purchase price.

We can also provide the option to retro mark any and all existing surgical instrumentation and retractors already in use (for a nominal fee). Additional hospital internal tracking codes can also be applied.

Hospital Trusts and healthcare facilities which are working towards the utilisation of GS1/Scan4safety recommendations (for track and trace, traceability and streamlining of the procurement systems) can contact us for a complete and comprehensive compliant solution.





# Instrument & Retractor Repair Service

*Precision Surgical offers a 7 day or 2-3 days turnaround service to suit individual needs*

**Free returns by next day courier on orders of £95.00+.**

**£4.95 for return of repairs £50.00+.**

**£6.95 for return of repairs under £50.00.**

**This service is complimented by offering: -**

All Precision Surgical Serviced instruments are individually inspected and finished by hand.

They are protected from damage in transit where necessary by use of tip protectors, wrapped up in polythene and foam. Extra special attention will be paid to aesthetic qualities and any item can be bright or satin (dull) finished as requested.

If instruments are beyond repair, we will offer a new replacement quotation with a 10% Discount and free delivery

Air Tools and Hoses of all types can be repaired and overhauled. (Within a 7-day turnaround time)

Rigid telescopes of all types can be repaired and reconditioned at a cost of  
£395.00 (within a 7-day turnaround time)

**TELEPHONE OUR REPAIR TEAM**  
**0114 270 1000**

**Or e-mail:** [info@precisionsurgical.co.uk](mailto:info@precisionsurgical.co.uk) Alternatively, please  
contact us via our **website:** [www.precisionsurgical.co.uk](http://www.precisionsurgical.co.uk)

Precision Surgical Ltd supplies the following brands:-

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since 1947*

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passion. perfection. functionality.

Other brochures available from Precision Surgical upon request.

