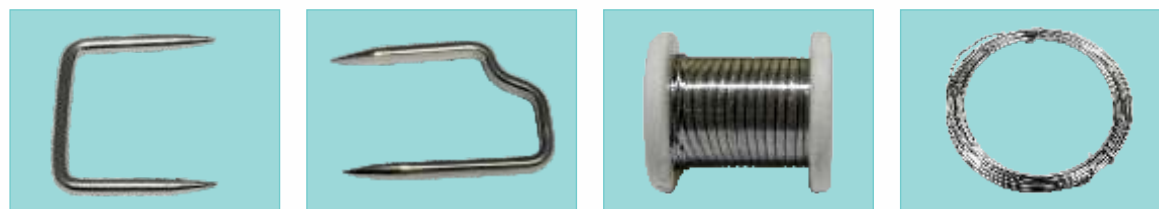


# Pins, Wires & Staples



## INDEX

### WIRES & PINS

#### WIRES

##### SOFT WIRES

|                           |     |
|---------------------------|-----|
| Cerclage Wire Loop .....  | 4/2 |
| Wire Roll – 3 meter ..... | 4/2 |
| Wire Roll- 10 meter ..... | 4/2 |

##### HARD WIRES

|                                          |     |
|------------------------------------------|-----|
| Kirschner Wire, Single Ended .....       | 4/3 |
| Kirschner Wire, Double Ended .....       | 4/3 |
| Kirschner Wire, Partially Threaded ..... | 4/4 |
| Kirschner Wire, Fully Threaded.....      | 4/4 |

#### PINS

|                                                        |     |
|--------------------------------------------------------|-----|
| Steinmann Pin .....                                    | 4/5 |
| Denham Pin (or Centrally Threaded Steinmann Pin) ..... | 4/5 |
| Austin Moore Pin with Two Nuts .....                   | 4/6 |
| Knowles Pin .....                                      | 4/6 |

|                                     |     |
|-------------------------------------|-----|
| Wire Implant & Instrument Set ..... | 4/7 |
|-------------------------------------|-----|

#### INSTRUMENTS FOR WIRES

|                                             |     |
|---------------------------------------------|-----|
| Wire Cutter .....                           | 4/8 |
| Jumbo Cutter .....                          | 4/8 |
| Wire Passer .....                           | 4/8 |
| Wire Bender .....                           | 4/8 |
| Wire Twister .....                          | 4/8 |
| Wire Twister with Two Pegs .....            | 4/8 |
| Wire Tightener cum Twister cum Cutter ..... | 4/9 |
| Wire Tightening Forceps (A.O. Type) .....   | 4/9 |
| Plier cum Bender cum Cutter .....           | 4/9 |
| Cerclage Wire Holding Forceps .....         | 4/9 |
| K-Wire Bender .....                         | 4/9 |
| Vice Grip .....                             | 4/9 |

#### BONE STAPLES

|                        |      |
|------------------------|------|
| Blount Staples .....   | 4/10 |
| Coventry Staples ..... | 4/10 |
| Thorny Staples .....   | 4/10 |

#### INSTRUMENTS FOR STAPLES

|                                  |      |
|----------------------------------|------|
| Staple Introducer .....          | 4/11 |
| Starter for Staples .....        | 4/11 |
| Staple Extractor .....           | 4/11 |
| Coventry Staple Introducer ..... | 4/11 |

Wires & Pins are most common implants that are used in Orthopaedic Surgery. They can be broadly classified as- Soft Wires & Hard Wires/Pins.

SOFT WIRES

Soft Wires or Cerclage Wires are also known as Orthopaedic Wires. They are malleable, thus can easily be cut, twisted or tightened. These are made of stainless steel.

Indications

- Surgical fracture repairs
- Tension wire banding
- Temporary fixation during open reduction
- Re-attachment of greater trochanter following osteotomies in total hip arthroplasty & fractures

Cerclage Wire Loop

(Item Code: PS924)



| Code      | Dia. (mm) |
|-----------|-----------|
| PS924.080 | 0.80      |
| PS924.090 | 0.90      |
| PS924.100 | 1.00      |
| PS924.125 | 1.25      |
| PS924.150 | 1.50      |

- These are available in standard length of 280 mm.
- Customised lengths also available.

Wire Roll – 3 meter

(Item Code: PS912)



| Code      | Dia. (mm) |
|-----------|-----------|
| PS912.038 | 0.38      |
| PS912.045 | 0.45      |
| PS912.055 | 0.55      |
| PS912.080 | 0.80      |
| PS912.100 | 1.00      |
| PS912.120 | 1.20      |
| PS912.150 | 1.50      |

Wire Roll- 10 meter

(Item Code: PS915)



| Code      | Dia. (mm) |
|-----------|-----------|
| PS915.038 | 0.38      |
| PS915.045 | 0.45      |
| PS915.055 | 0.55      |
| PS915.080 | 0.80      |
| PS915.100 | 1.00      |
| PS915.120 | 1.20      |
| PS915.150 | 1.50      |

HARD WIRES

Hard wires include the Kirschner wires, pins etc. They are stiffer & much harder to cut. Wires are usually of smaller dia. ranging from 1.0 mm to 3.0 mm. Pins are usually thicker & have dia. ranging from 3.0 mm to 5.0 mm.

Wires or Pins have pointed tip/trocar (one side or both), which makes it easier to insert. These are usually made of stainless steel.

Indications

- Stand alone devices for fracture fixations
- Fracture fixations used in conjunction with other implants

Kirschner Wire, Single Ended (Item Code: PS911S)

| Code           | Length 150 mm | Code           | Length 300 mm |
|----------------|---------------|----------------|---------------|
| PS911S.010.150 | Dia. 1.0 mm   | PS911S.010.300 | Dia. 1.0 mm   |
| PS911S.015.150 | Dia. 1.5 mm   | PS911S.015.300 | Dia. 1.5 mm   |
| PS911S.020.150 | Dia. 2.0 mm   | PS911S.020.300 | Dia. 2.0 mm   |
| PS911S.025.150 | Dia. 2.5 mm   | PS911S.025.300 | Dia. 2.5 mm   |
| PS911S.030.150 | Dia. 3.0 mm   | PS911S.030.300 | Dia. 3.0 mm   |
| PS911S.035.150 | Dia. 3.5 mm   | PS911S.035.300 | Dia. 3.5 mm   |
| PS911S.040.150 | Dia. 4.0 mm   | PS911S.040.300 | Dia. 4.0 mm   |
| PS911S.045.150 | Dia. 4.5 mm   | PS911S.045.300 | Dia. 4.5 mm   |
| PS911S.050.150 | Dia. 5.0 mm   | PS911S.050.300 | Dia. 5.0 mm   |



- These wires are also available in Titanium.
- Please add suffix T for ordering titanium wires.
- Customised sizes also available.

Kirschner Wire, Double Ended (Item Code: PS911D)

| Code           | Length 150 mm | Code           | Length 300 mm |
|----------------|---------------|----------------|---------------|
| PS911D.010.150 | Dia. 1.0 mm   | PS911D.010.300 | Dia. 1.0 mm   |
| PS911D.015.150 | Dia. 1.5 mm   | PS911D.015.300 | Dia. 1.5 mm   |
| PS911D.020.150 | Dia. 2.0 mm   | PS911D.020.300 | Dia. 2.0 mm   |
| PS911D.025.150 | Dia. 2.5 mm   | PS911D.025.300 | Dia. 2.5 mm   |
| PS911D.030.150 | Dia. 3.0 mm   | PS911D.030.300 | Dia. 3.0 mm   |
| PS911D.035.150 | Dia. 3.5 mm   | PS911D.035.300 | Dia. 3.5 mm   |
| PS911D.040.150 | Dia. 4.0 mm   | PS911D.040.300 | Dia. 4.0 mm   |
| PS911D.045.150 | Dia. 4.5 mm   | PS911D.045.300 | Dia. 4.5 mm   |
| PS911D.050.150 | Dia. 5.0 mm   | PS911D.050.300 | Dia. 5.0 mm   |



- These wires are also available in Titanium.
- Please add suffix T for ordering titanium wires.
- Customised sizes also available.

Kirschner Wire, Partially Threaded (Item Code: PS913P)



| Code          | Dia. (mm) | Length (mm) | Thread Length mm |
|---------------|-----------|-------------|------------------|
| PS913P.08.150 | 0.8       | 150         | 18               |
| PS913P.10.150 | 1.0       | 150         | 18               |
| PS913P.15.150 | 1.5       | 150         | 18               |
| PS913P.25.150 | 2.5       | 150         | 20               |
| PS913P.15.225 | 1.5       | 225         | 20               |
| PS913P.20.225 | 2.0       | 225         | 20               |
| PS913P.25.225 | 2.5       | 225         | 20               |

- These wires are also available in Titanium.
- Please add suffix T for ordering titanium wires.
- Customised sizes also available.

Kirschner Wire, Fully Threaded (Item Code: PS913F)



| Code          | Dia. (mm) | Length (mm) |
|---------------|-----------|-------------|
| PS913F.08.150 | 0.8       | 150         |
| PS913F.10.150 | 1.0       | 150         |
| PS913F.15.150 | 1.5       | 150         |
| PS913F.25.150 | 2.5       | 150         |
| PS913F.15.225 | 1.5       | 225         |
| PS913F.20.225 | 2.0       | 225         |
| PS913F.25.225 | 2.5       | 225         |

- These wires are also available in Titanium.
- Please add suffix T for ordering titanium wires.
- Customised sizes also available.

PINS

Steinmann Pin

(Item Code: PS901)



| Code        |              |              |              |              |              |
|-------------|--------------|--------------|--------------|--------------|--------------|
| Length (mm) | Dia. 3.0 mm  | Dia. 3.5 mm  | Dia. 4.0 mm  | Dia. 4.5 mm  | Dia. 5.0 mm  |
| 150         | PS901.30-150 | PS901.35-150 | PS901.40-150 | PS901.45-150 | PS901.50-150 |
| 175         | PS901.30-175 | PS901.35-170 | PS901.40-175 | PS901.45-175 | PS901.50-175 |
| 200         | PS901.30-200 | PS901.35-200 | PS901.40-200 | PS901.45-200 | PS901.50-200 |
| 225         | PS901.30-225 | PS901.35-225 | PS901.40-225 | PS901.45-225 | PS901.50-225 |
| 300         | PS901.30-300 | PS901.35-300 | PS901.40-300 | PS901.45-300 | PS901.50-300 |
| 350         | PS901.30-350 | PS901.35-350 | PS901.40-350 | PS901.45-350 | PS901.50-350 |
| 400         | PS901.30-400 | PS901.35-400 | PS901.40-400 | PS901.45-400 | PS901.50-400 |

Customised sizes also available.

Denham Pin (or Centrally Threaded Steinmann Pin)

(Item Code: PS914)



| Code     | Dia. (mm) |
|----------|-----------|
| PS914.40 | 4.0       |
| PS914.45 | 4.5       |
| PS914.50 | 5.0       |
| PS914.60 | 6.0       |

Customised sizes also available.

OTHER TYPES OF PINS

Austin Moore Pin with Two Nuts

(Item Code: PS919)



| Code      | Length (mm) | Code      | Length (mm) |
|-----------|-------------|-----------|-------------|
| PS919.50  | 50          | PS919.105 | 105         |
| PS919.55  | 55          | PS919.110 | 110         |
| PS919.60  | 60          | PS919.115 | 115         |
| PS919.65  | 65          | PS919.120 | 120         |
| PS919.70  | 70          | PS919.125 | 125         |
| PS919.75  | 75          | PS919.130 | 130         |
| PS919.80  | 80          | PS919.135 | 135         |
| PS919.85  | 85          | PS919.140 | 140         |
| PS919.90  | 90          | PS919.145 | 145         |
| PS919.95  | 95          | PS919.150 | 150         |
| PS919.100 | 100         |           |             |

Knowles Pin

(Item Code: PS920)



| Code        |              |              |
|-------------|--------------|--------------|
| Length (mm) | Dia. 3.0 mm  | Dia. 4.0 mm  |
| 65          | PS920.03.65  | PS920.04.65  |
| 70          | PS920.03.70  | PS920.04.70  |
| 75          | PS920.03.75  | PS920.04.75  |
| 80          | PS920.03.80  | PS920.04.80  |
| 85          | PS920.03.85  | PS920.04.85  |
| 90          | PS920.03.90  | PS920.04.90  |
| 95          | PS920.03.95  | PS920.04.95  |
| 100         | PS920.03.100 | PS920.04.100 |

Wire Implant & Instrument Set

(Item Code: GOS1412)



| Item Code      | Content                                            | Quantity |
|----------------|----------------------------------------------------|----------|
| IPW942         | Wire Tightener Handle and Two Pegs                 | 1        |
| IPW952         | Plier cum Bender cum Cutter                        | 1        |
| IPW 961.06     | Wire Bending Pliers, (Maun ) 6"                    | 1        |
| IPW945.02      | Wire Passer, Medium                                | 2        |
| IPW959         | Vice Grip                                          | 1        |
| IPW960         | Forceps for Holding Cerclage Wire                  | 2        |
|                | IMPLANTS                                           |          |
| PS924.19       | Cerclage Wire with Eye of dia. 1.0, length 280 mm  | 10       |
| PS924.18       | Cerclage Wire with Eye of dia. 1.25, length 280 mm | 20       |
| PS912          | Suture Wire, each of 1.0 and 1.25 mm dia.          | 2        |
| PS911D.010.150 | K-Wire Dia. 1.0, Length 150 mm                     | 10       |
| PS911D.012.150 | K-Wire Dia. 1.25, Length 150 mm                    | 10       |
| PS911D.015.150 | K-Wire Dia. 1.5, Length 150 mm                     | 20       |
| PS911D.020.150 | K-Wire Dia. 2.0, Length 150 mm                     | 10       |
| PS911D.025.150 | K-Wire Dia. 2.5, Length 150 mm                     | 10       |
| PS911D.030.150 | K-Wire Dia. 3.0, Length 150 mm                     | 10       |
| AGC1412        | Aluminium Graphic case                             | 1        |

Wire Cutter

(Item Code: IPW956)



Jumbo Cutter

(Item Code: IPW958)

| Code      | Length (Inches) |
|-----------|-----------------|
| IPW958.18 | 18              |
| IPW958.24 | 24              |



Wire Passer

(Item Code: IPW945)

| Code      | Length |
|-----------|--------|
| IPW945.01 | Small  |
| IPW945.02 | Medium |
| IPW945.03 | Large  |



Wire Bender

(Item Code: IPW950)



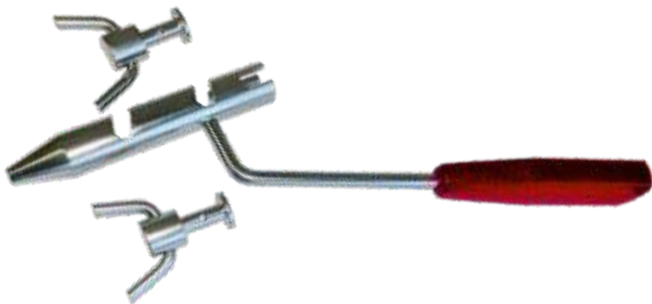
Wire Twister

(Item Code: IPW940)



Wire Twister with Two Pegs

(Item Code: IPW942)



Wire Tightener cum Twister cum Cutter

(Item Code: IPW953)



Wire Tightening Forceps (A.O. Type)

(Item Code: IPW949)



Plier cum Bender cum Cutter

(Item Code: IPW952)



Cerclage Wire Holding Forceps

(Item Code: IPW960)



K-Wire Bender

(Item Code: IPW946)



Vice Grip

(Item Code: IPW959)



Bone Staples are low profile implants that are in the shape of a hook, with sharp conical points. The shape & the size of the Staples is selected by the surgeon, based on the extent of osteotomy.

Indications

- Fractures, osteotomies, arthrodesis of hand & foot
- Fixation of proximal tibial metaphysis osteotomy
- May also be used to fix small fragments of long bones

Blount Staples

(Item Code: SSI1110)



| Code       |               |               |               |               |
|------------|---------------|---------------|---------------|---------------|
| Width (mm) | Dia 1.5 mm    | Dia 2.0 mm    | Dia 2.5 mm    | Dia 3.0 mm    |
| 15         | SSI1110.15-15 | SSI1110.20-15 | SSI1110.25-15 | SSI1110.30-15 |
| 20         | SSI1110.15-20 | SSI1110.20-20 | SSI1110.25-20 | SSI1110.30-20 |
| 25         | SSI1110.15-25 | SSI1110.20-25 | SSI1110.25-25 | SSI1110.30-25 |
| 30         | SSI1110.15-30 | SSI1110.20-30 | SSI1110.25-30 | SSI1110.30-30 |

Coventry Staples

(Item Code: SSI1111)



| Code       | Step (mm) |
|------------|-----------|
| SSI1111.05 | 5         |
| SSI1111.10 | 10        |
| SSI1111.15 | 15        |

Thorny Staples

(Item Code: SSI1112)



| Code       | Length (mm) |
|------------|-------------|
| SSI1112.10 | 10          |
| SSI1112.12 | 12          |
| SSI1112.20 | 20          |

Instruments for Staples

Staple Introducer

(Item Code: SSI1113)



Starter for Staples

(Item Code: SSI1115)



Staple Extractor

(Item Code: SSI1116)



Coventry Staple Introducer

(Item Code: SSI1118)

