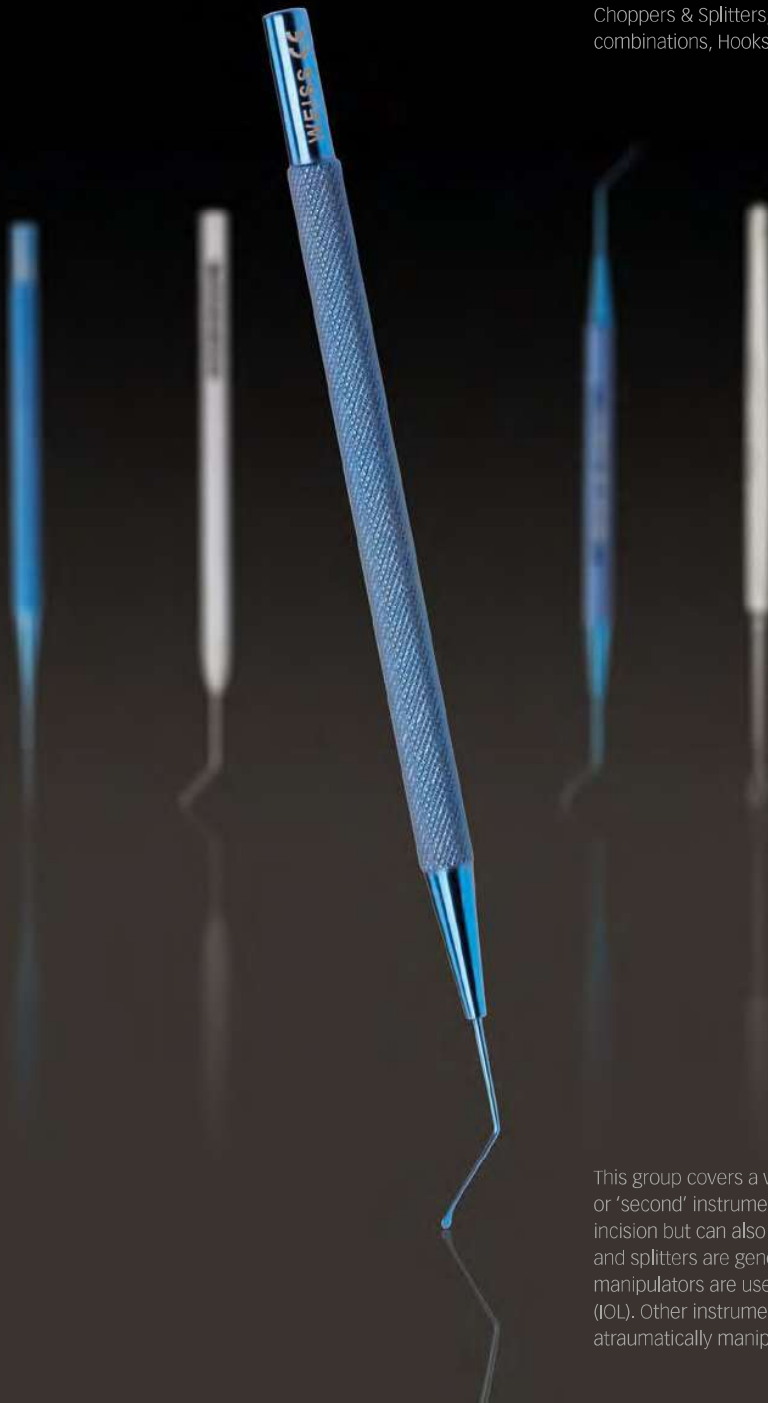


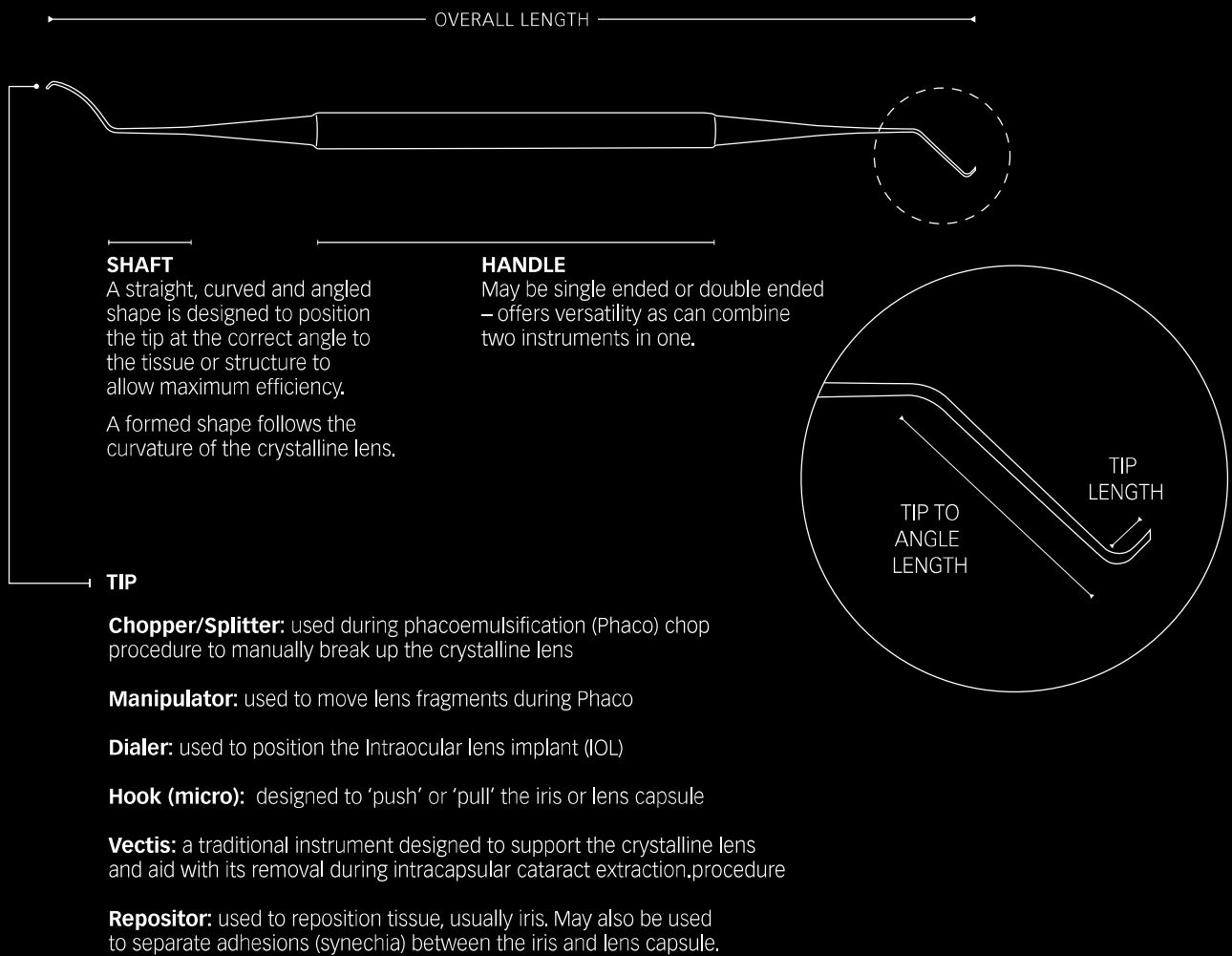
## Choppers & Manipulators

Choppers & Splitters, Manipulators, Spatula / Repositors, Double ended combinations, Hooks, Vectis

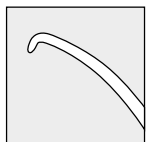
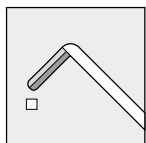
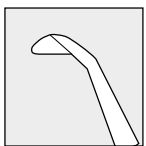
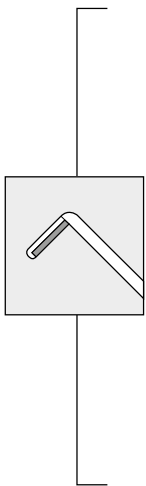


This group covers a wide variety of instruments commonly called 'side port' or 'second' instrument. They are mainly used through the paracentesis incision but can also be used through the principle incision. Choppers and splitters are generally used to break up the crystalline lens while manipulators are used to move lens fragments or the intraocular lens (IOL). Other instruments that are of a similar design are hooks, used to atraumatically manipulate the lens or capsular bag; and vectis.

## Chopper and Manipulator anatomy



## Choppers & Splitters



**0109301** **Ti**

Phaco chopper, angled with 1mm blade, 10mm tip to angle, overall length 112mm



**0109302** **Ti**

Phaco chopper, angled with a 1mm 30° left, offset blade. 10mm tip to angle, overall length 112mm



**0109304** **Ti**

Koch phaco chopper, angled with a 1mm blade. 10mm tip to angle, overall length 110mm



**0109310** **Ti**

Phaco chopper, angled with an extra long 1.5mm blade. 10mm tip to angle, overall length 115mm



**0109314** **Ti**

Green's phaco chopper, angled. 10mm tip to angle, overall length 115mm



**0109314L** **Ti**

Green's phaco chopper, angled, for right handed use. 10mm tip to angle, overall length 115mm



**0109305** **Ti**

Stevens phaco chopper, angled with a dual forward and rear cutting blade. 10mm tip to angle, overall length 120mm



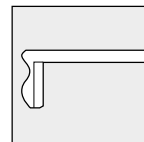
**0109318** **Ti**

Spalton phaco chopper, angled. 8mm tip to angle, overall length 112mm

## Choppers & Splitters

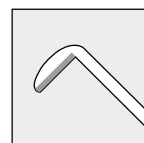
**0109300** **Ti**

Small pupil phaco chopper, angled.  
10mm tip to angle, overall length 112mm



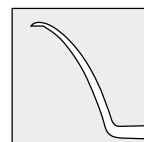
**0109225** **Ti**

Nucleus splitter, angled. 10mm tip to angle,  
overall length 112mm



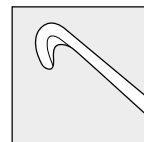
**0109227** **Ti**

Tamblyn nucleus splitter/ manipulator, angled.  
10mm tip to angle, overall length 118mm



**0105138** **SS**

Phaco cleaver, angled. 10mm tip to angle,  
overall length 125mm



**0105140** **SS**

Akahoshi hybrid pre-chopper, straight,  
overall length 123mm

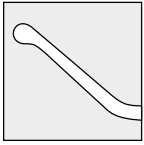


**0105141** **SS**

Akahoshi combo pre-chopper, straight,  
overall length 123mm

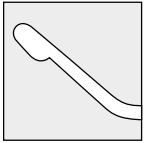


## Manipulators



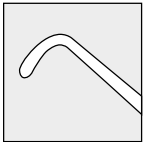
0109222 Ti

Drysdale nucleus manipulator, angled with a paddle tip. 11mm tip to angle, overall length 112mm



0109220 Ti

Rosen nucleus manipulator, angled with a paddle tip. 10mm tip to angle, overall length 120mm

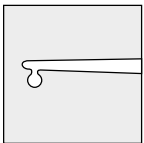


0109226 Ti

Microfinger angled, for **right** handed use. 10mm tip to angle, overall length 118mm

0109226L Ti

Microfinger angled, for **left** handed use. 10mm tip to angle, overall length 118mm



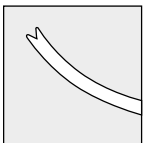
0109218 Ti

Lester lens pusher, straight, overall length 118mm



0109219 Ti

Lester lens pusher, angled. 10mm tip to angle, overall length 118mm



0109306 Ti

Joyce manipulator, curved with a horizontal groove in tip, overall length 120mm

## Manipulators

**0105132** **SS**

Kuglen lens manipulator, straight,  
overall length 122mm



**0105133** **SS**

Kuglen lens manipulator, angled. 10mm tip to angle,  
overall length 120mm



**0109229** **Ti**

Kuglen lens manipulator, straight,  
overall length 115mm



**0109230** **Ti**

Kuglen lens manipulator, angled. 10mm tip to angle,  
overall length 115mm



**0105135** **SS**

Graether collar button manipulator, angled.  
10mm tip to angle, overall length 120mm



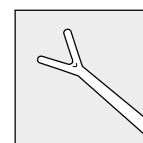
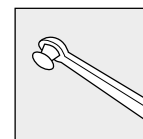
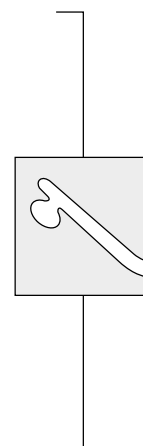
**0109231** **Ti**

Jaffe-Bechert nucleus rotator, angled with a  
horizontal 'Y' tip. 10mm tip to angle, overall length  
115mm

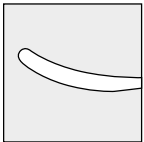


**0105155** **SS**

Jaffe-Bechert nucleus rotator, angled with a vertical  
'Y' tip. 8mm tip to angle, overall length 110mm



## Manipulators



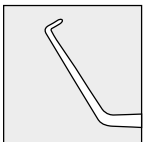
**0105136** **SS**

Koch manipulator, curved with smooth, flat tip, overall length 115mm



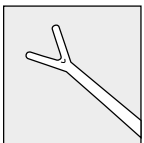
**0109224** **Ti**

Koch manipulator, curved with smooth, flat tip, overall length 115mm



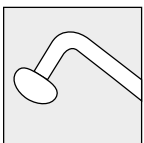
**0109319** **Ti**

Spalton reverse dialler, angled. 10mm tip to angle, overall length 115mm



**0105153** **SS**

Osher manipulator, angled with 'Y' tip. 10mm tip to angle, overall length 115mm



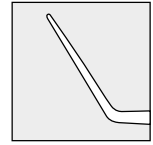
**0109316** **Ti**

Mushroom manipulator, angled. 10mm tip to angle, overall length 115mm

## Spatula / Repositors

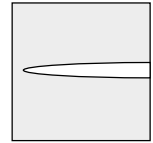
**0106051** **SS**

Gimble spatula angled with 0.25mm diameter smooth, flat tip. 10mm tip to angle, overall length 128mm



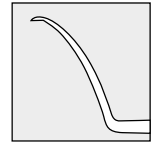
**0106004** **SS**

Nettleship iris reposer, straight, overall length 130mm



**0109212** **Ti**

Iris reposer, angled. 14mm tip to angle, overall length 116mm



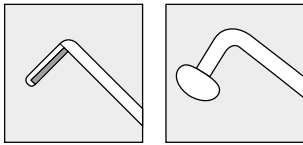
**0106023** **SS**

Troutman cyclodialysis spatula, angled. 15mm tip to angle, overall length 95mm



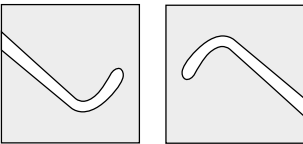


## Double ended combinations



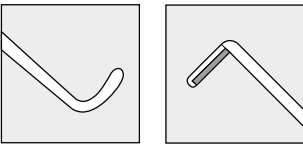
**0109527** **Ti**

Raj phaco chopper and mushroom manipulator, angled. 10mm tip to angle, overall length 125mm



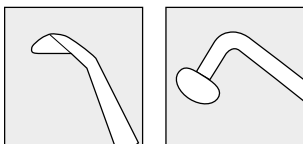
**0109228** **Ti**

Microfinger for left hand plus microfinger for right hand, angled. 10mm tip to angle, overall length 145mm



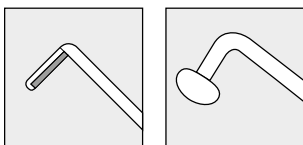
**0109309** **Ti**

Microfinger and phaco chopper, angled. 10mm tip to angle, overall length 135mm



**0109312** **Ti**

Green's phaco chopper and mushroom manipulator, angled. 10mm tip to angle, overall length 132mm



**0109317** **Ti**

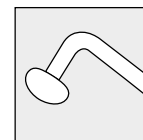
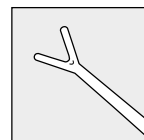
Phaco chopper and mushroom manipulator, angled. 10mm tip to angle, overall length 135mm

Note: bespoke double ended variations may be available to order

## Double ended combinations

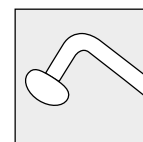
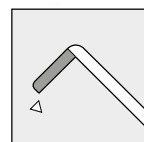
**0109315** **Ti**

Jaffe-Bechert 'Y' rotator and mushroom manipulator, angled. 8mm tip to angle, overall length 135mm



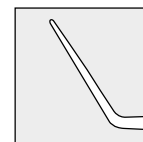
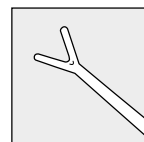
**0109308** **Ti**

Triple chopper with 3 cutting edges and mushroom manipulator, angled. 10mm tip to angle, overall length 135mm



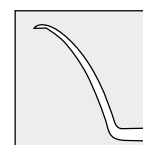
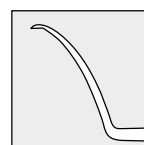
**0109307** **Ti**

Nucleus rotator with 'Y' tip and flat rotator, angled. 10mm tip to angle, overall length 140mm



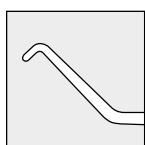
**0106042** **SS**

Castroviejo cyclodialysis/synechia spatula, angled. 10mm x 0.5mm blade and 0.5mm x 15mm blade, overall length 130mm



Note: bespoke double ended variations may be available to order

## Hooks



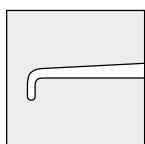
**0109214** **Ti**

Sinskey dialing hook, angled. 10mm tip to angle, overall length 120mm



**0105109** **SS**

Sinskey dialing hook, angled. 10mm tip to angle, overall length 115mm



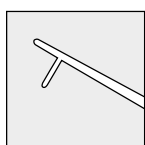
**0109216** **Ti**

Sinskey dialing hook, straight, overall length 120mm



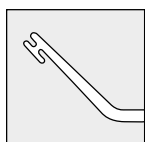
**0105107** **SS**

Sinskey dialing hook, straight, overall length 115mm



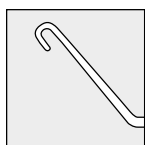
**0109232** **Ti**

Fenzl hook, angled with 2mm hook. 10mm tip to angle, overall length 115mm



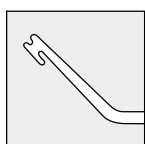
**0109217** **Ti**

Hirshman iris hook, angled. 10mm tip to angle, overall length 120mm



**0109215** **Ti**

Iris hook, angled. 10mm tip to angle, overall length 117mm



**0109233** **Ti**

Makool capsule retractor and guide, angled. 13mm tip to angle, overall length 120mm

## Hooks

**0105072** **SS**

Graefe strabismus hook, straight with 5mm small hook, overall length 138mm



**0105073** **SS**

Graefe strabismus hook, straight with 8mm medium hook, overall length 138mm



**0105074** **SS**

Graefe strabismus hook, straight with 10mm large hook, overall length 138mm



**0105075** **SS**

Moorfields strabismus hook, straight with 8mm hook, overall length 138mm



**0105076** **SS**

Chauvasse strabismus hook, straight with 12mm hook, overall length 134mm



**0105082** **SS**

Maidstone oculoplastic hook for lateral canthoplasty with fenestration at tip. 13mm hook, overall length 138mm



**0105080** **SS**

Assaf muscle hook, adult, flat grooved 7mm hook, overall length 145mm



**0105081** **SS**

Assaf muscle hook, child, flat grooved 5mm hook, overall length 145mm



## Hooks



**0114232** **SS**

Lens expressor, angled on flat, rounded tip.  
10mm tip to angle, overall length 145mm



**0105102** **SS**

Kilner hook, straight with a 3mm sharp pointed  
hook, overall length 140mm



**0202352** **SS**

Gilles skin hook small, straight with a 3mm sharp  
pointed hook, overall length 185mm



**0202354** **SS**

Gilles skin hook large, straight with a 4mm sharp  
pointed hook, overall length 185mm

## Vectis

**0108062** **SS**

Snellen vectis, straight with 8.5mm x 2.5mm oval, overall length 140mm



**0108063** **SS**

Bell Taylor vectis, straight with 7.0mm x 4.5mm oval, overall length 140mm



**0108064** **SS**

Landolt vectis, straight with 5.5mm x 4mm oval, overall length 125mm



**0108070** **SS**

Narrow vectis, straight with 7.5mm x 2.5mm oval, overall length 138mm

