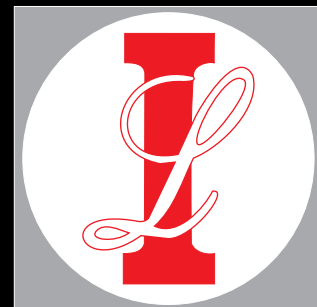
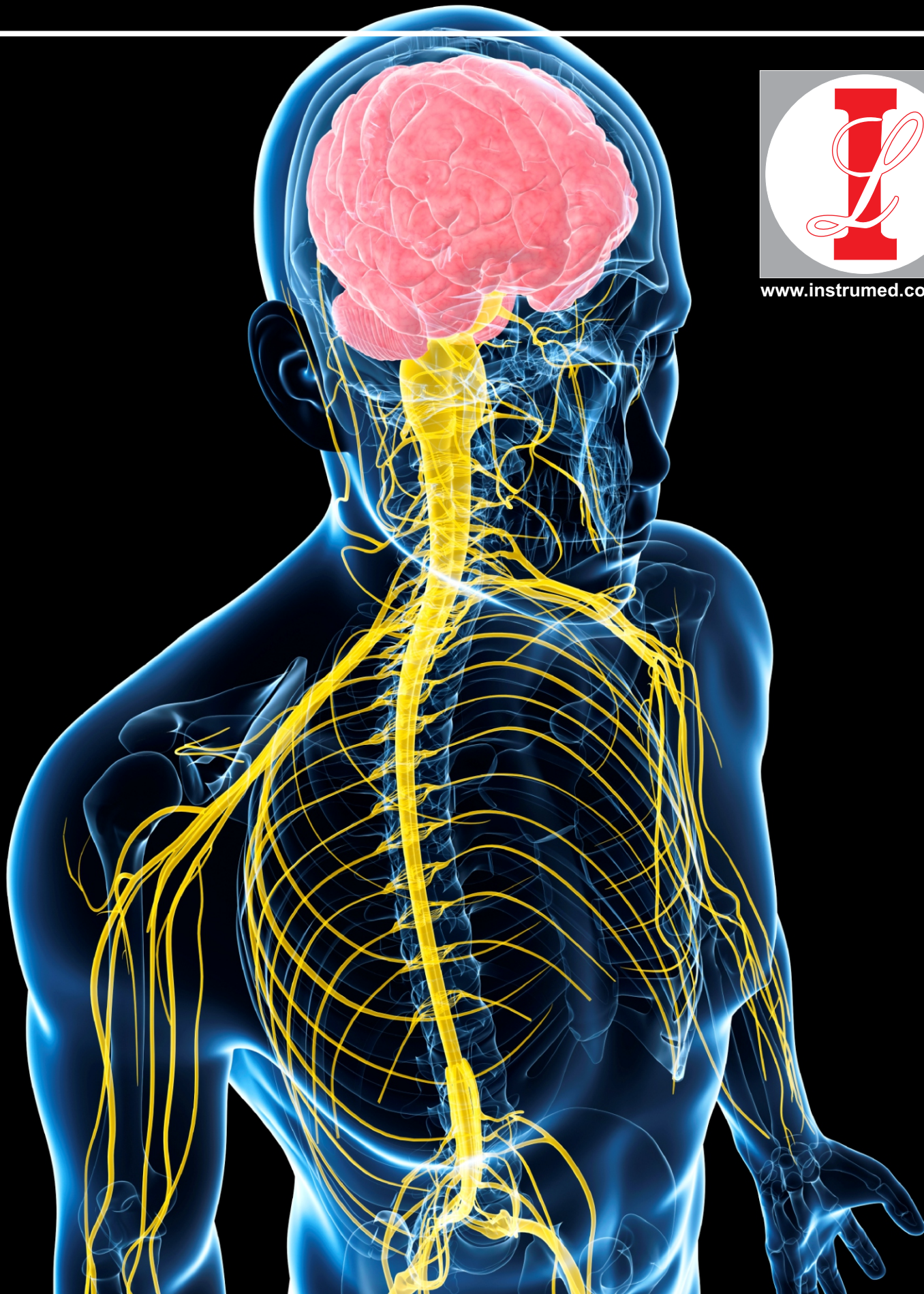




[www.instrumed.com.pk](http://www.instrumed.com.pk)

Neuro & Laminectomy Instruments



## NEURO AND LAMINECTOMY



Hook Handle

**Gigli**  
31-10928-00

Wire Saws



**Gigli**  
31-10932-30 30 cm/12"  
31-10932-40 40 cm/16"  
31-10932-50 50 cm/20"



Conductors

**Martel**  
31-10636-33  
33 cm/13"



With 2 Extra Hooks

Skull Cutting Forceps

**Dahlgren**  
31-10640-20  
20 cm/8"



With 1 Hook Each

**De Vibiss**  
31-10644-21  
21 cm/8¼"

NEURO AND LAMINECTOMY



**Crutchfield**  
31-10948-00



**Crutchfield**  
31-10952-00



31-10956-00



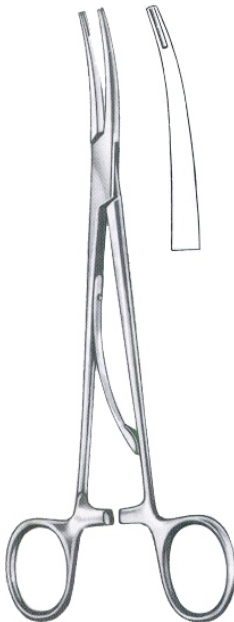
**Crutchfield**  
31-10960-00  
Complete With 2 Drills



Applying and Removing Forceps



**Raney**  
31-10964-00  
16 cm/6¼"



**McKenzie**  
31-10968-15 15 cm/6"  
31-10968-19 19 cm/7½"



**Olivecrona-Tonnies**  
31-10972-14

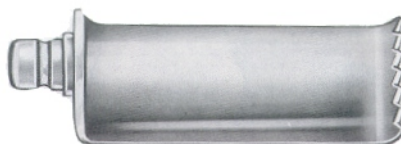
## NEURO AND LAMINECTOMY

Medial

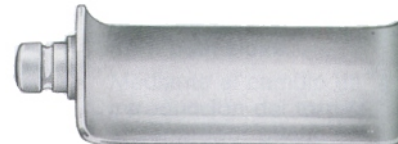


mm  
 31-10976-40 40 x 20  
 31-10976-45 45 x 20  
 31-10976-50 50 x 20  
 31-10976-55 55 x 20  
 31-10976-60 60 x 20

Lateral



mm  
 31-10978-40 40 x 20  
 31-10978-45 45 x 20  
 31-10978-50 50 x 20  
 31-10978-55 55 x 20  
 31-10978-60 60 x 20



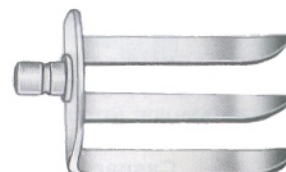
mm  
 31-10980-40 40 x 20  
 31-10980-45 45 x 20  
 31-10980-50 50 x 20  
 31-10980-55 55 x 20  
 31-10980-60 60 x 20



Blunt Blades, For Taking  
 mm  
 31-10982-50 50 x 25  
 31-10982-50 60 x 25



mm  
 31-10984-35 35 x 52  
 31-10984-40 40 x 52  
 31-10984-45 45 x 52  
 31-10984-50 50 x 52  
 31-10984-55 55 x 52  
 31-10984-60 60 x 52  
 31-10984-65 65 x 52  
 31-10984-70 70 x 52



mm  
 31-10986-35 35 x 37  
 31-10986-40 40 x 37  
 31-10986-45 45 x 37  
 31-10986-50 50 x 37  
 31-10986-55 55 x 37  
 31-10986-60 60 x 37  
 31-10986-60 65 x 37  
 31-10986-60 70 x 37



mm  
 31-10988-35 35 x 22  
 31-10988-40 40 x 22  
 31-10988-45 45 x 22  
 31-10988-50 50 x 22  
 31-10988-55 55 x 22  
 31-10988-60 60 x 22  
 31-10988-65 65 x 22  
 31-10988-70 70 x 22



mm  
 31-10990-50 50

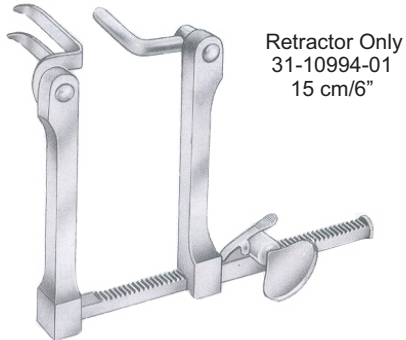
Hook



mm  
 31-10992-70 70



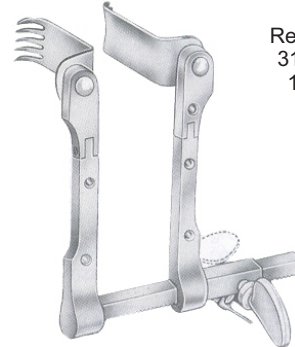
## NEURO AND LAMINECTOMY



Retractor Only  
31-10994-01  
15 cm/6"

**Caspar**  
31-10994-00

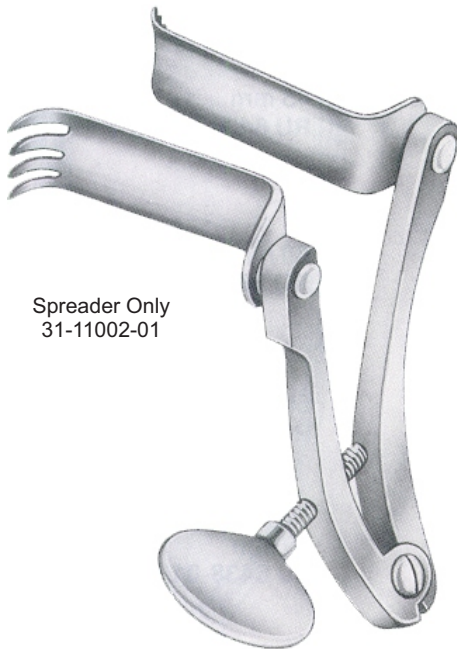
Retractor Complete With  
1 Blade Each  
31-10988-40  
31-10990-50



Retractor Only  
31-10998-01  
12 cm/4¾"

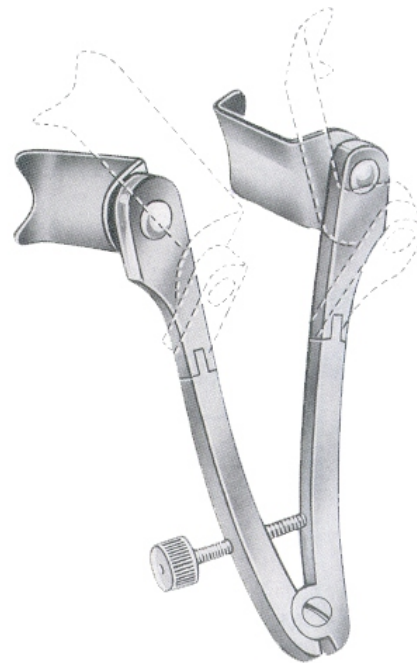
**Caspar**  
31-10998-00

Retractor Complete With  
1 Blade Each  
31-10976-40  
31-10978-40



Spreader Only  
31-11002-01

**Caspar**  
31-11002-00  
Retractors Only  
Spreader Complete With  
1 Blade Each  
31-11976-45  
31-11976-60



Spreader Only  
31-11006-01

**Caspar**  
31-11006-00  
Spreader Only  
Retractor Complete With  
1 Blade Each  
31-11980-40  
31-11980-40

## NEURO AND LAMINECTOMY

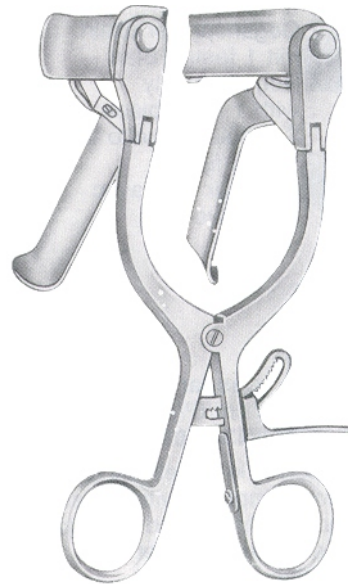
31-11010-01  
 15 cm/6"  
 Retractor only

**Caspar**  
 31-11010-00  
 31-10980-45  
 31-10980-65  
 Retractor complete with  
 1 blade each



31-11014-01  
 15 cm/6"  
 Retractor only

**Caspar**  
 31-11014-00  
 31-10980-45  
 31-10980-65  
 Retractor adjustable, con  
 1 blade each



31-11018-01  
 Retractor only  
 with 1 fixed blade

**Caspar**  
 31-11018-00  
 Retractor complete,  
 with 5 blades

31-11018-40  
 40 mm



31-11018-45  
 45 mm



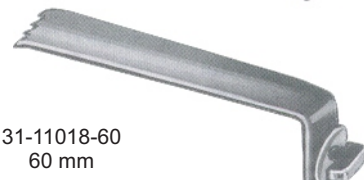
31-11018-50  
 50 mm



31-11018-55  
 55 mm



31-11018-60  
 60 mm



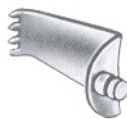


## NEURO AND LAMINECTOMY



31-11022-01  
Retractor only

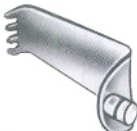
**Cloward**  
31-11022-00  
25 cm/10"  
complete with 5 blades



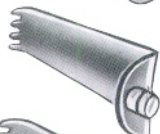
31-11022-40  
15x40 mm



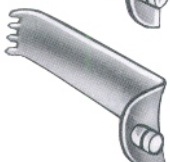
31-11022-45  
15x45 mm



31-11022-50  
15x50 mm



31-11022-55  
15x55 mm

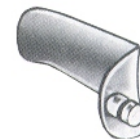


31-11022-60  
15x60 mm



31-11026-01  
Retractor only

**Cloward**  
31-11026-00  
15 cm/6"  
complete with 5 blades



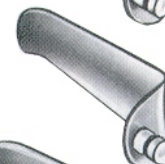
31-11026-40  
15x40 mm



31-11026-45  
15x45 mm



31-11026-50  
15x50 mm



31-11026-55  
15x55 mm



31-11026-60  
15x60 mm

## NEURO AND LAMINECTOMY



**Inge**  
31-11030-16  
16 cm/6 1/4"



**Inge**  
31-11032-27  
27 cm/10 3/4"



**Cloward**  
31-11036-15  
15 cm/6"



**Cloward**  
31-11040-16  
16 cm/6 1/4"



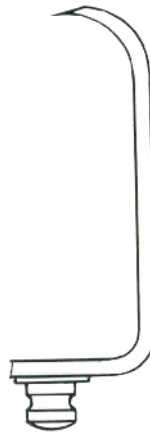
NEURO AND LAMINECTOMY

Muscle blades



Frame  
31-11044-01

Hey  
31-11044-00  
31-11046-00  
23 cm/9"



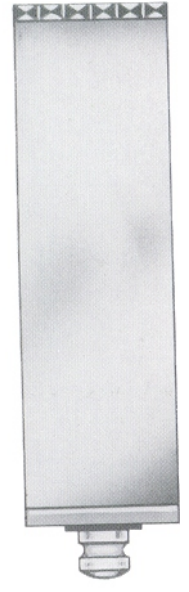
31-11044-50  
20x50 mm



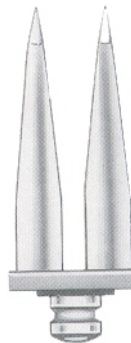
31-11044-60  
20x60 mm



31-11044-70  
20x70 mm



Vertebra-pins



31-11046-50  
50 mm



31-11046-60  
60 mm



31-11046-70  
70 mm

## NEURO AND LAMINECTOMY



Left-type

Right-type

50x10 mm

31-11050-01

31-11052-01

60x10 mm

31-11050-02

31-11052-02

70x10 mm

31-11050-03

31-11052-03

50x20 mm

31-11054-01

31-11056-01

60x20 mm

31-11054-02

31-11056-02

70x20 mm

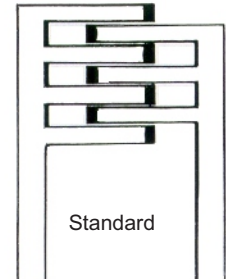
31-11054-03

31-11056-03



NEURO AND LAMINECTOMY

Toothed



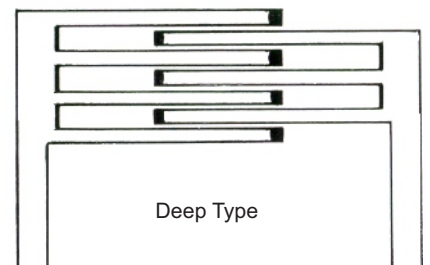
Standard

31-11060-00 Complete 31-11062-00  
14.5 cm/5 $\frac{3}{4}$ " Consisting of 17 cm/6 $\frac{3}{4}$ "

31-11060-01 Frame 31-11062-01  
31-11060-21 Centre Blades 31-11060-21  
31-11060-22 31-11060-22  
31-11060-23 31-11060-23



Henly



Deep Type

31-11064-00 Complete 31-11066-00  
14.5 cm/5 $\frac{3}{4}$ " Consisting of 17 cm/6 $\frac{3}{4}$ "

31-11060-01 Centre Blades 31-11066-01  
31-11060-21 31-11060-21  
31-11060-22 31-11060-22  
31-11060-23 31-11060-23

## NEURO AND LAMINECTOMY



**Davis**  
31-11070-24  
24.5 cm/9 3/4"



**Toennis**  
31-11074-25  
25 cm/10"



**Frazier**  
31-11078-15



**Hoen**  
31-11080-15

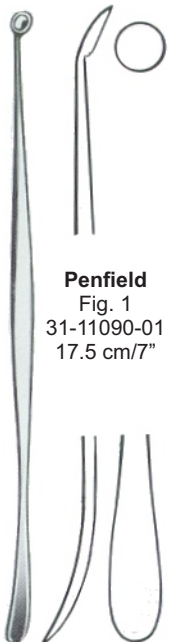


**Hoen**  
31-11082-15

15 cm/6"



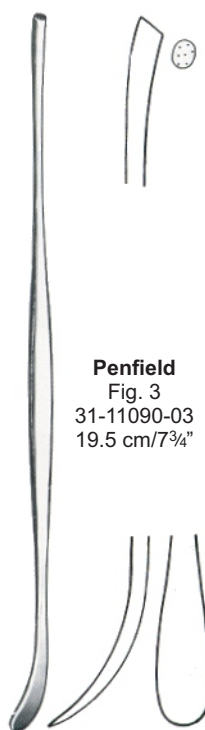
**Love-Adson**  
31-11086-16  
16 cm/6 1/2"



**Penfield**  
Fig. 1  
31-11090-01  
17.5 cm/7"



**Penfield**  
Fig. 2  
31-11090-02  
19.5 cm/7 3/4"



**Penfield**  
Fig. 3  
31-11090-03  
19.5 cm/7 3/4"



**Penfield**  
Fig. 4  
31-11090-04  
21.5 cm/8 1/2"



**Penfield**  
Fig. 5  
31-11090-05  
29 cm/11 1/2"

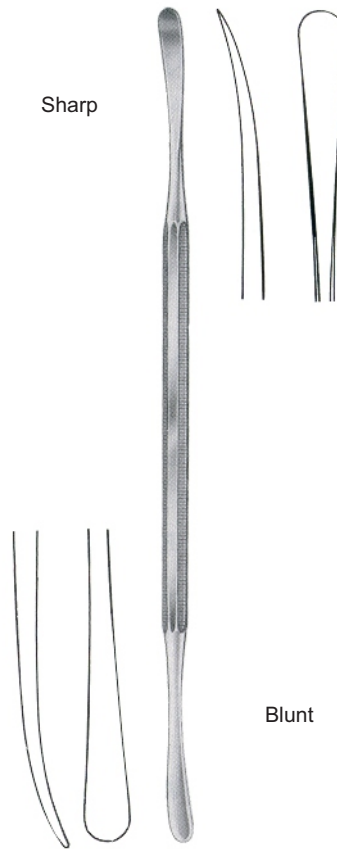


NEURO AND LAMINECTOMY



**Sachs**  
31-11094-21  
21 cm/8¼"

Sharp



Blunt

31-11098-22  
22 cm/8½"



**Woodsen**  
31-11102-25  
25 cm/10"



**Fragar**  
31-11106-20  
20 cm/8"

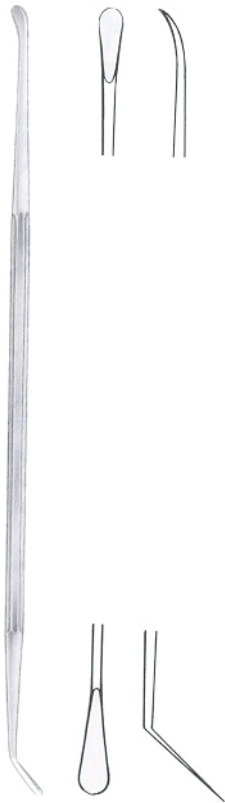


**Fragar**  
31-11108-20  
20 cm/8"

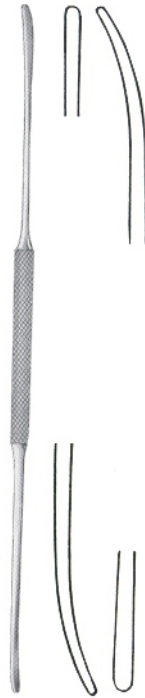


**Sachs**  
31-11112-21  
21 cm/8¼"

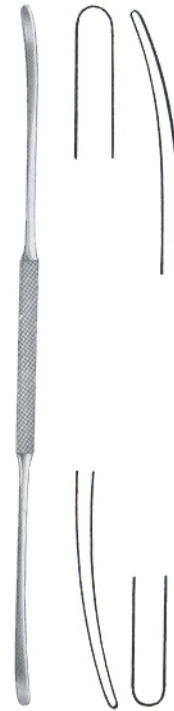
## NEURO AND LAMINECTOMY



**Milligan**  
31-11116-21  
21 cm/8¼"



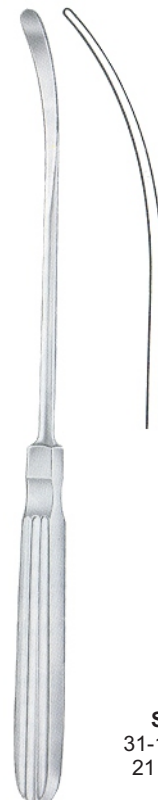
**Olivecrona**  
31-11120-18 18 cm/7"  
31-11120-24 24 cm/9½"



**Olivecrona**  
31-11124-19 19.5 cm/7¾"  
31-11124-24 24 cm/9½"



**Horsley**  
31-11128-20  
20 cm/8"



**Sachs**  
31-11132-21  
21 cm/8¼"



NEURO AND LAMINECTOMY



**Cushing**  
17 cm/6<sup>3</sup>/<sub>4</sub>"  
20 cm/8"  
28 cm/11"

31-11136-17  
31-11136-20  
31-11136-28



**Olivecrone**  
18 cm/7"  
Width of Spatulas

|             | Upper end | Lower end |             |
|-------------|-----------|-----------|-------------|
| Concave     | mm        | mm        | Convex      |
| 31-11140-01 | 7         | 9         | 31-11142-01 |
| 31-11140-02 | 11        | 13        | 31-11142-02 |
| 31-11140-03 | 15        | 18        | 31-11142-03 |
| 31-11140-04 | 18        | 22        | 31-11142-04 |



**Heifetz**  
20 cm/8"

| Width of Spatulas |             |           |
|-------------------|-------------|-----------|
| Upper end         |             | Lower end |
| mm                |             | mm        |
| 7                 | 31-11144-08 | 8         |
| 10                | 31-11144-11 | 11        |
| 13                | 31-11144-14 | 14        |
| 16                | 31-11144-17 | 17        |
| 19                | 31-11144-20 | 20        |
| 22                | 31-11144-25 | 22        |



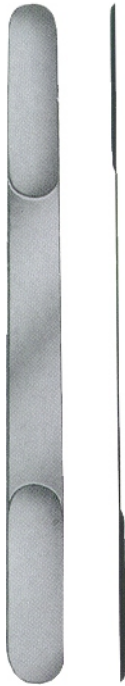
**Heifetz**  
15.5 cm/6"

Width of Spatulas

|             | mm |
|-------------|----|
| 31-11148-08 | 8  |
| 31-11148-11 | 11 |
| 31-11148-14 | 14 |
| 31-11148-17 | 17 |

Length of Spatulas

## NEURO AND LAMINECTOMY



18 cm/7"

Width of spatulas

| Upper end | Lower end |             |
|-----------|-----------|-------------|
| mm        | mm        |             |
| 7         | 9         | 31-11152-09 |
| 11        | 13        | 31-11152-13 |
| 15        | 18        | 31-11152-18 |
| 18        | 22        | 31-11152-22 |



20 cm/8"  
 12 mm 31-11156-12  
 17 mm 31-11156-17



20 cm/8"  
 14 mm 31-11160-14  
 17 mm 31-11160-17  
 20 mm 31-11160-20



31-11164-01  
 19cm/7½"



**Love**  
 31-11164-02  
 19 cm/7½"



31-11164-03



**Love**  
 31-11168-21  
 21 cm/8¼"



## NEURO AND LAMINECTOMY

Length of spatulas



70 mm  
3 mm 31-11172-03

100 mm  
31-11174-03



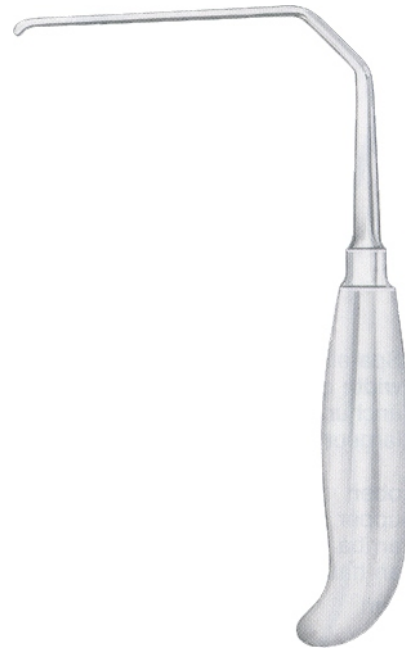
5 mm 31-11172-05

31-11174-05



7 mm 31-11172-07

31-11174-07



Love



**Scoville**  
23 cm/9"

7 mm 31-11176-07  
9 mm 31-11176-09



**Holsher**  
7mm 31-11177-07  
9mm 31-11177-09  
24 cm/9½"



8 mm 31-11179-08  
13 mm 31-11179-13

## NEURO AND LAMINECTOMY



**Taylor**

30x 70 mm 31-11180-07 17 cm/6¾"  
 30x100 mm 31-11180-10 17 cm/6¾"



**Oldberg**

21 cm/8¼"



31-11182-01



31-11182-02



31-11182-03



31-11182-04



**Cushing**

31-11184-19 19 cm/7¾"  
 31-11184-28 28 cm/11"



**Smithwick**

31-11188-17 17 cm/6½"  
 31-11188-21 21 cm/8¼"



**Cushnig**

31-11190-14 14 cm/5½"



**Adson**

20 cm/8"



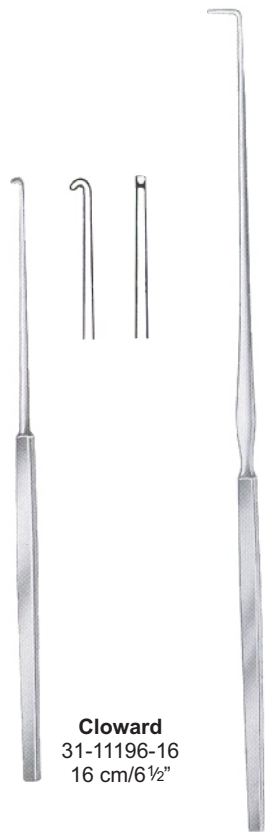
31-11192-01



31-11192-02



NEURO AND LAMINECTOMY



**Cloward**  
31-11196-16  
16 cm/6½"



**Hoen**  
31-11200-22  
22 cm/8¾"



**Dandy**  
31-11204-01  
20 cm/8"



**Dandy**  
31-11204-02  
20 cm/8"



**Dandy**  
31-11204-03  
20 cm/8"



**Smithwick**  
31-11208-29  
29 cm/11¾"



**Scoville**  
31-11212-30  
30 cm/12"



**Scoville**  
31-11214-30  
30 cm/12"



## NEURO AND LAMINECTOMY



**Graham**  
31-11218-16  
16.5 cm/6½"



**Toennis**  
31-11222-15  
15 cm/6"



**Frazier**  
31-11226-13 13 cm/5"  
31-11226-18 18 cm/7"



**Toennis**  
31-11230-13 13 cm/5"  
31-11230-18 18 cm/7"



**Olivecrona**  
31-11234-23  
23 cm/9"



**Olivecrona**  
31-11236-20  
20.5 cm/8"



## NEURO AND LAMINECTOMY



Ferris-Smith-Kerrison

|                    |  | Width of Bite | Length of Shaft |             |             |
|--------------------|--|---------------|-----------------|-------------|-------------|
|                    |  |               | 15 cm/6"        | 20 cm/8"    | 18 cm/7"    |
| Cutting Upward     |  | 0.6 mm        | 31-11240-03     | 31-11246-03 | 31-11252-00 |
|                    |  | 1 mm          |                 |             | 31-11252-01 |
|                    |  | 2 mm          |                 |             | 31-11252-02 |
|                    |  | 3 mm          |                 |             | 31-11252-03 |
|                    |  | 4 mm          |                 |             | 31-11252-04 |
|                    |  | 5 mm          |                 |             | 31-11252-05 |
| Cutting Upward 40° |  | 0.6 mm        | 31-11242-03     | 31-11248-03 | 31-11254-00 |
|                    |  | 1 mm          |                 |             | 31-11254-01 |
|                    |  | 2 mm          |                 |             | 31-11254-02 |
|                    |  | 3 mm          |                 |             | 31-11254-03 |
|                    |  | 4 mm          |                 |             | 31-11254-04 |
|                    |  | 5 mm          |                 |             | 31-11254-05 |
| Cutting Downwards  |  | 0.6 mm        | 31-11244-03     | 31-11250-03 | 31-11256-00 |
|                    |  | 1 mm          |                 |             | 31-11256-01 |
|                    |  | 2 mm          |                 |             | 31-11256-02 |
|                    |  | 3 mm          |                 |             | 31-11256-03 |
|                    |  | 4 mm          |                 |             | 31-11256-04 |
|                    |  | 5 mm          |                 |             | 31-11256-05 |

## NEURO AND LAMINECTOMY



Ferris-Smith-Kerrison

|                    |                                                                                     | Width of Bite |             | Length of Shaft |             |  |
|--------------------|-------------------------------------------------------------------------------------|---------------|-------------|-----------------|-------------|--|
|                    |                                                                                     |               | 15 cm/6"    | 20 cm/8"        | 18 cm/7"    |  |
| Cutting Upward     |  | 3 mm          | 31-11260-03 | 31-11266-03     | 31-11272-03 |  |
|                    |                                                                                     | 5 mm          | 31-11260-05 | 31-11266-05     | 31-11272-05 |  |
| Cutting Upward 40° |  | 3 mm          | 31-11262-03 | 31-11268-03     |             |  |
|                    |                                                                                     | 5 mm          | 31-11262-05 | 31-11268-05     |             |  |
| Cutting Downward   |  | 3 mm          | 31-11264-03 | 31-11270-03     | 31-11274-03 |  |
|                    |                                                                                     | 5 mm          | 31-11264-05 | 31-11270-05     | 31-11274-05 |  |



NEURO AND LAMINECTOMY



Love-Kerrison

|                    |  | Width of Bite | Length of Shaft |             |             |
|--------------------|--|---------------|-----------------|-------------|-------------|
|                    |  |               | 15 cm/6"        | 20 cm/8"    | 18 cm/7"    |
| Cutting Upward     |  | 2 mm          |                 |             | 31-11286-02 |
|                    |  | 3 mm          | 31-11278-03     | 31-11282-03 | 31-11286-03 |
|                    |  | 4 mm          | 31-11278-04     | 31-11282-04 | 31-11286-04 |
|                    |  | 5 mm          | 31-11278-05     | 31-11282-05 | 31-11286-05 |
|                    |  | 6 mm          |                 |             | 31-11286-06 |
| Cutting Upward 40° |  | 2 mm          |                 |             | 31-11288-02 |
|                    |  | 3 mm          |                 |             | 31-11288-03 |
|                    |  | 4 mm          |                 |             | 31-11288-04 |
|                    |  | 5 mm          |                 |             | 31-11288-05 |
|                    |  | 6 mm          |                 |             | 31-11288-06 |
| Cutting Downward   |  | 2 mm          |                 |             | 31-11290-02 |
|                    |  | 3 mm          | 31-11280-03     | 31-11284-03 | 31-11290-03 |
|                    |  | 4 mm          | 31-11280-04     | 31-11284-04 | 31-11290-04 |
|                    |  | 5 mm          | 31-11280-05     | 31-11284-05 | 31-11290-05 |
|                    |  | 6 mm          |                 |             | 31-11290-06 |
| Cutting Upward 40° |  | 2 mm          |                 |             | 31-11292-02 |
|                    |  | 3 mm          |                 |             | 31-11292-03 |
|                    |  | 4 mm          |                 |             | 31-11292-04 |
|                    |  | 5 mm          |                 |             | 31-11292-05 |
|                    |  | 6 mm          |                 |             | 31-11292-06 |

## NEURO AND LAMINECTOMY



Colclough

|                    |                                                                                     | Width of Bite | Length of Shaft |             |
|--------------------|-------------------------------------------------------------------------------------|---------------|-----------------|-------------|
|                    |                                                                                     |               | 15 cm/6"        | 20 cm/8"    |
| Cutting Upward     |  | 3 mm          | 31-11296-03     | 31-11302-03 |
|                    |                                                                                     | 5 mm          | 31-11296-05     | 31-11302-05 |
| Cutting Upward 40° |  | 3 mm          | 31-11298-03     | 31-11304-03 |
|                    |                                                                                     | 5 mm          | 31-11298-05     | 31-11304-05 |
| Cutting Downward   |  | 3 mm          | 31-11300-03     | 31-11306-03 |
|                    |                                                                                     | 5 mm          | 31-11300-05     | 31-11306-05 |



## NEURO AND LAMINECTOMY



|                                   | Length Of Shaft |             |             |             |
|-----------------------------------|-----------------|-------------|-------------|-------------|
| <b>Cushing</b><br>2 x 10 cm       | 5"/13 cm        | 31-11310-01 | 31-11310-02 | 31-11310-03 |
|                                   | 6"/15 cm        | 31-11312-01 | 31-11312-02 | 31-11312-03 |
|                                   | 7"/18 cm        | 31-11314-01 | 31-11314-02 | 31-11314-03 |
| <b>Love-Grunwald</b><br>3 x 10 cm | 5"/13 cm        | 31-11316-01 | 31-11316-02 | 31-11316-03 |
|                                   | 6"/15 cm        | 31-11318-01 | 31-11318-02 | 31-11318-03 |
|                                   | 7"/18 cm        | 31-11320-01 | 31-11320-02 | 31-11320-03 |
| <b>Spurling</b><br>4 x 10 cm      | 5"/13 cm        | 31-11322-01 | 31-11322-02 | 31-11322-03 |
|                                   | 6"/15 cm        | 31-11324-01 | 31-11324-02 | 31-11324-03 |
|                                   | 7"/18 cm        | 31-11326-01 | 31-11326-02 | 31-11326-03 |

## NEURO AND LAMINECTOMY



|                                   | Length Of Shaft |             |             |             |
|-----------------------------------|-----------------|-------------|-------------|-------------|
| <b>Cushing</b><br>2 x 10 cm       | 5"/13 cm        | 31-11330-01 | 31-11330-02 | 31-11330-03 |
|                                   | 6"/15 cm        | 31-11332-01 | 31-11332-02 | 31-11332-03 |
|                                   | 7"/18 cm        | 31-11334-01 | 31-11334-02 | 31-11334-03 |
| <b>Love-Grunwald</b><br>3 x 10 cm | 5"/13 cm        | 31-11336-01 | 31-11336-02 | 31-11336-03 |
|                                   | 6"/15 cm        | 31-11338-01 | 31-11338-02 | 31-11338-03 |
|                                   | 7"/18 cm        | 31-11340-01 | 31-11340-02 | 31-11340-03 |
| <b>Spurling</b><br>4 x 10 cm      | 5"/13 cm        | 31-11342-01 | 31-11342-02 | 31-11342-03 |
|                                   | 6"/15 cm        | 31-11344-01 | 31-11344-02 | 31-11344-03 |
|                                   | 7"/18 cm        | 31-11346-01 | 31-11346-02 | 31-11346-03 |



NEURO AND LAMINECTOMY



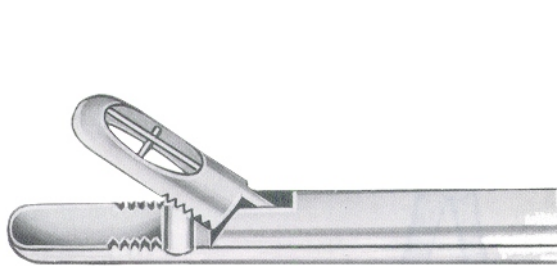
Ferris-Smith

Width Of Jaw

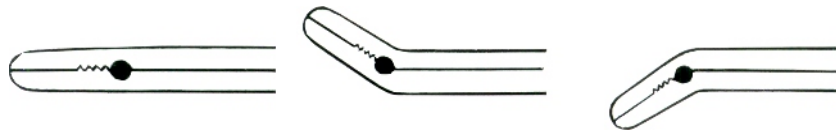


|           |             |             |             |
|-----------|-------------|-------------|-------------|
| 2 x 10 mm | 31-11350-01 | 31-11350-02 | 31-11350-03 |
| 3 x 10 mm | 31-11352-01 | 31-11352-02 | 31-11352-03 |
| 4 x 10 mm | 31-11354-01 | 31-11354-02 | 31-11354-03 |

## NEURO AND LAMINECTOMY



Serrated and Fenestrated Jaws



| Widh Of Jaw | Length Of Shaft |             |             |             |
|-------------|-----------------|-------------|-------------|-------------|
| mm          | 14 cm/5 1/2"    | 31-11358-01 | 31-11358-02 | 31-11358-03 |
|             | 16 cm/6 1/4"    | 31-11360-01 | 31-11360-02 | 31-11360-03 |
| 2 x 12      | 14 cm/5 1/2"    | 31-11362-01 | 31-11362-02 | 31-11362-03 |
|             | 16 cm/6 1/4"    | 31-11364-01 | 31-11364-02 | 31-11364-03 |
| 3 x 12      | 14 cm/5 1/2"    | 31-11366-01 | 31-11366-02 | 31-11366-03 |
|             | 16 cm/6 1/4"    | 31-11368-01 | 31-11368-02 | 31-11368-03 |
| 4 x 14      | 14 cm/5 1/2"    | 31-11370-01 | 31-11370-02 | 31-11370-03 |
|             | 16 cm/6 1/4"    | 31-11372-01 | 31-11372-02 | 31-11372-03 |
| 5 x 14      | 14 cm/5 1/2"    | 31-11374-01 | 31-11374-02 | 31-11374-03 |
|             | 16 cm/6 1/4"    | 31-11376-01 | 31-11376-02 | 31-11376-03 |



NEURO AND LAMINECTOMY

Serrated Jaws



31-11378-02

mm  
2 x 10

13 cm/5"



31-11378-03

3 x 10

13 cm/5"

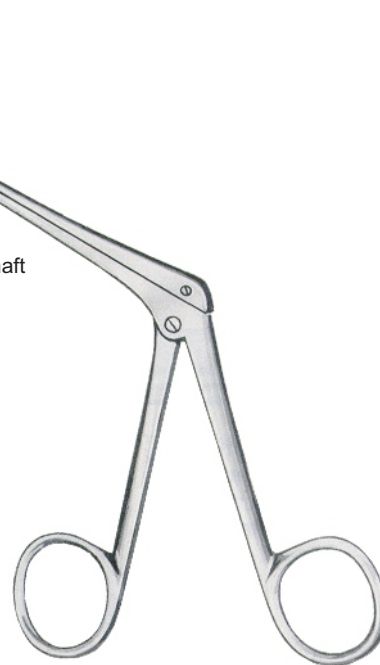


31-11378-04

4 x 10

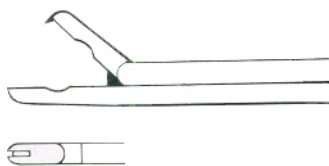
13 cm/5"

Length Of Shaft



Schlesinger

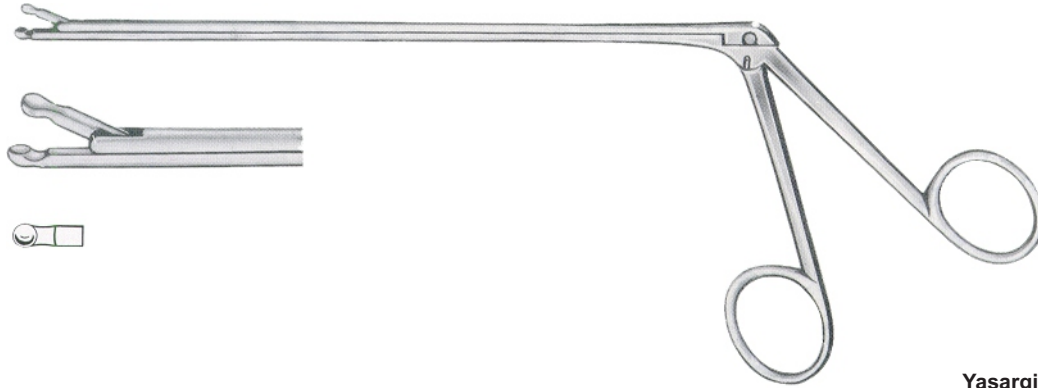
Grasping Forceps



31-11382-16



## NEURO AND LAMINECTOMY



Ø 3.5 mm

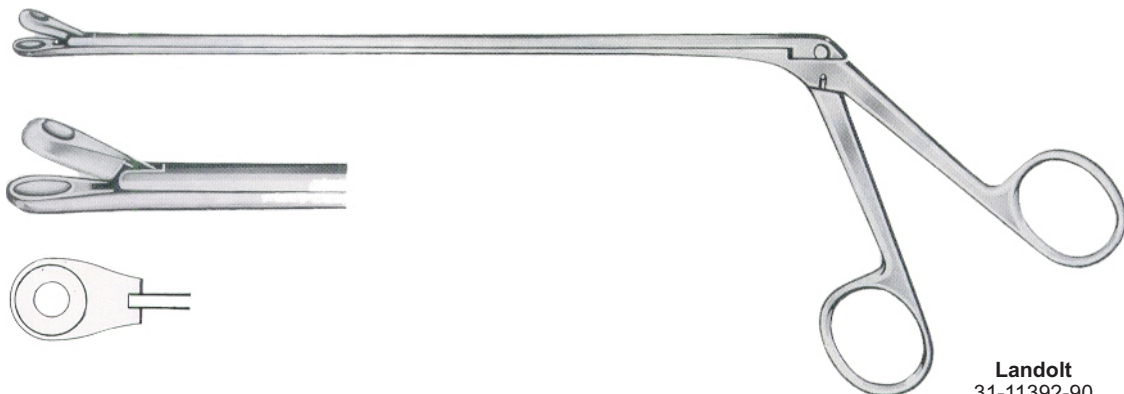


**Yasargil**  
31-11386-35  
19.5 cm/7 3/4"

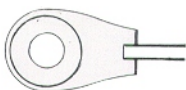
Ø 6.5 mm



**Oldberg**  
31-11390-65  
18 cm/7"



Ø 9 mm

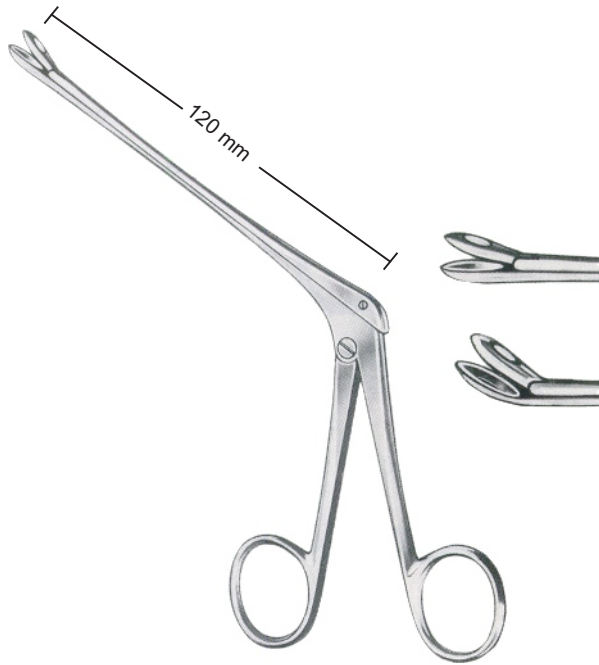


**Landolt**  
31-11392-90  
21 cm/8 1/4"

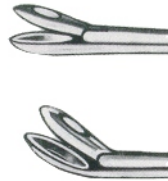
Tumor Grasping Forceps Blunt



NEURO AND LAMINECTOMY



Weil-Blakesley



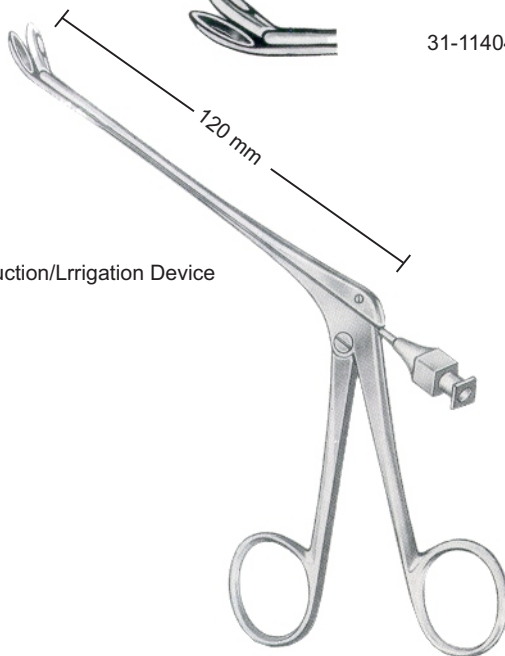
31-11396-01 31-11396-02 31-11396-03 31-11396-04 31-11396-05  
31-11398-01 31-11398-02 31-11398-03 31-11398-04 31-11398-05



31-11402-01 31-11402-02 31-11402-03 31-11402-04 31-11402-05



31-11404-01 31-11404-02 31-11404-03 31-11404-04 31-11404-05



With Suction/Irrigation Device

Weil-Blakesley



## NEURO AND LAMINECTOMY



**Hajek**  
(Hajek-Kofler)  
14 cm/5½"



31-11408-01  
5 x 4 mm



31-11408-02  
5 x 4 mm



31-11408-03  
5 x 3.5 mm



31-11408-04  
5 x 3.5 mm

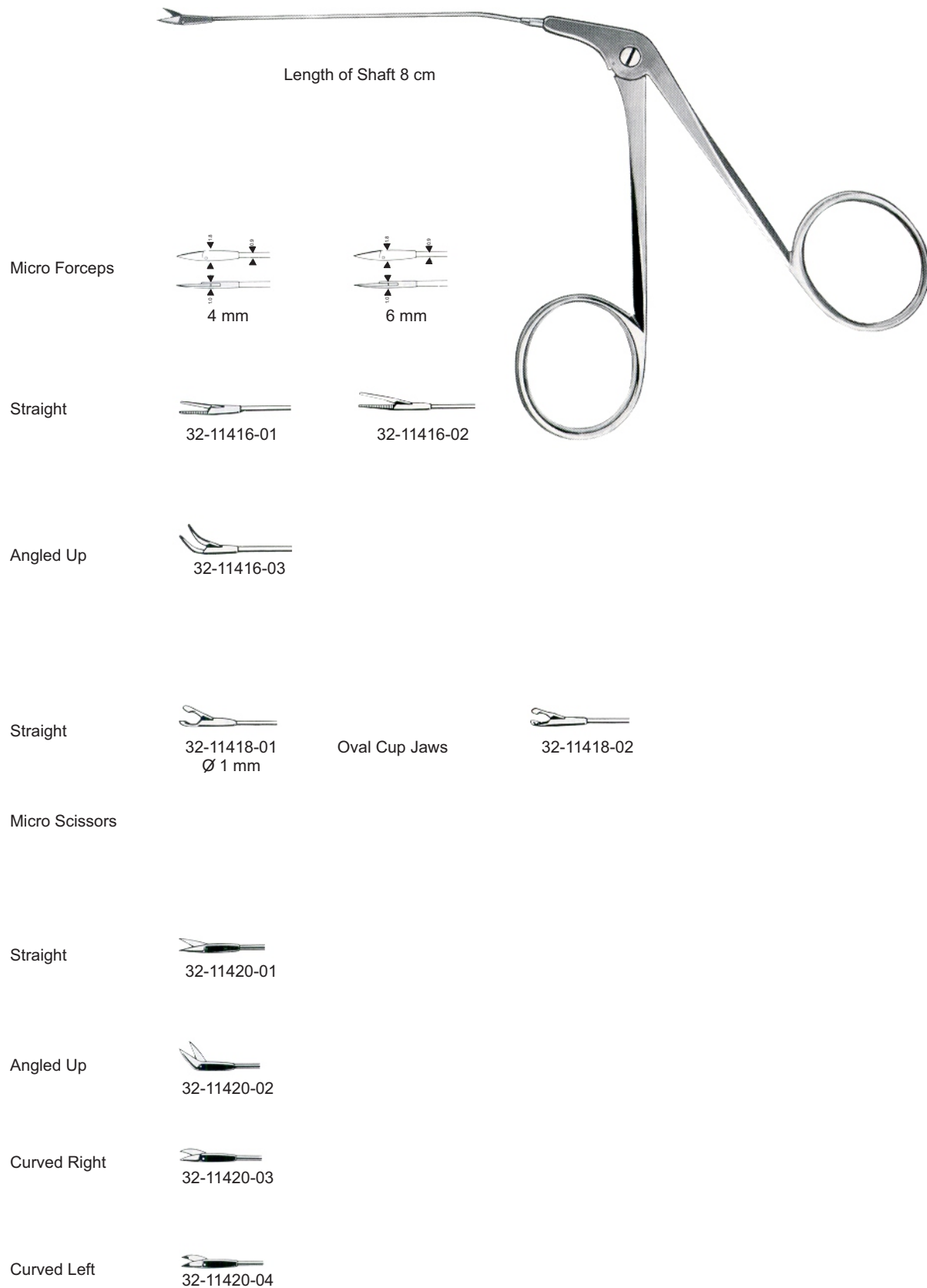
360° Turnable



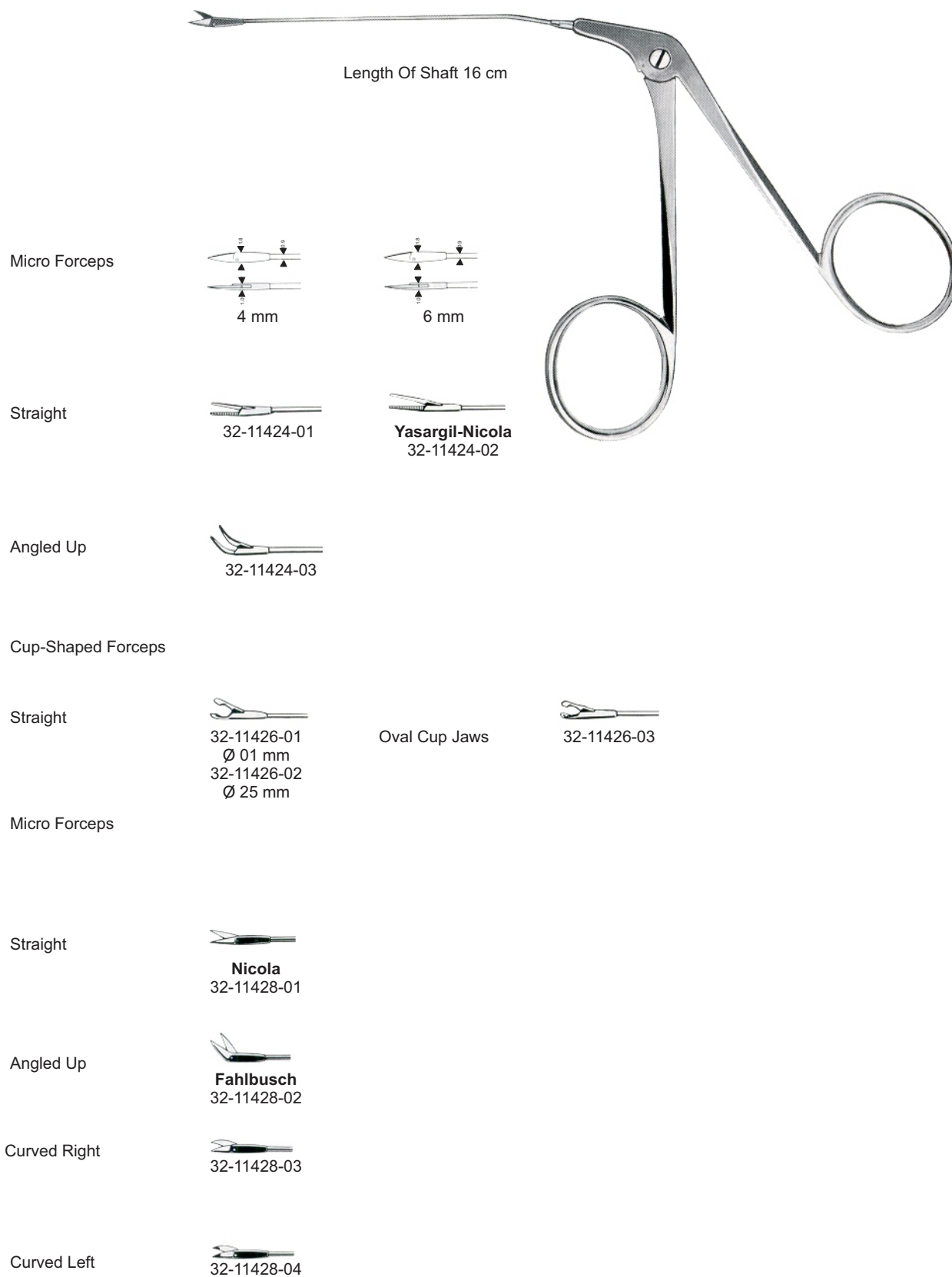
**Hajek-Kofler**  
31-11412-16  
16 cm/6½"



## NEURO AND LAMINECTOMY



## NEURO AND LAMINECTOMY

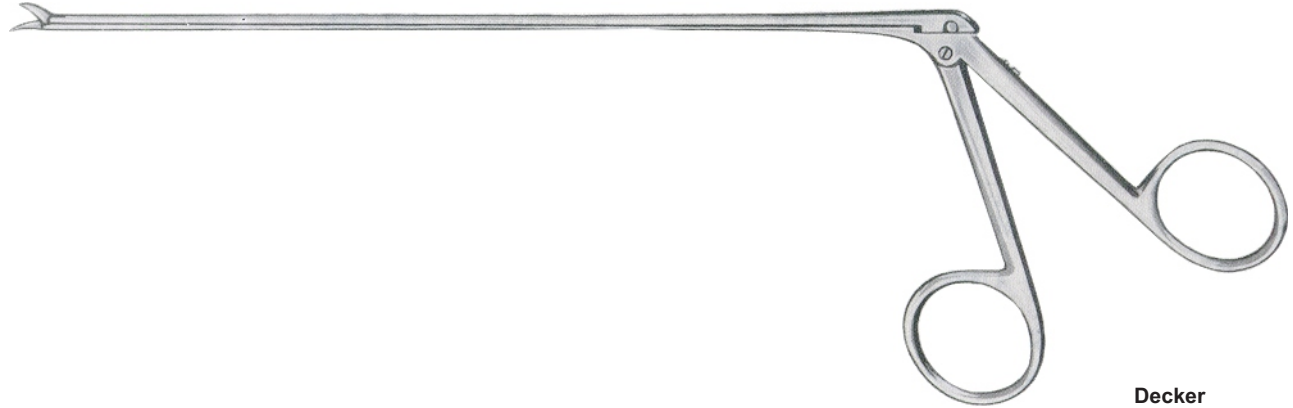




**NEURO AND LAMINECTOMY**

Micro Scissors

Length of Shaft 14 cm



Straight  
32-11430-01



Curved Right  
32-11430-02

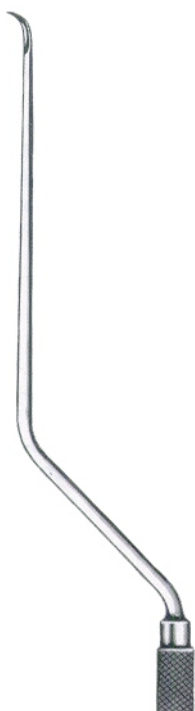


Curved Left  
32-11430-03

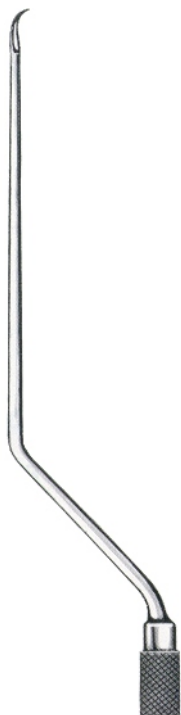
## NEURO AND LAMINECTOMY



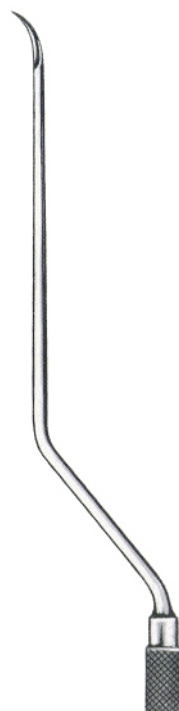
**Jacobson**  
32-11432-00  
18.5 cm/7¼"



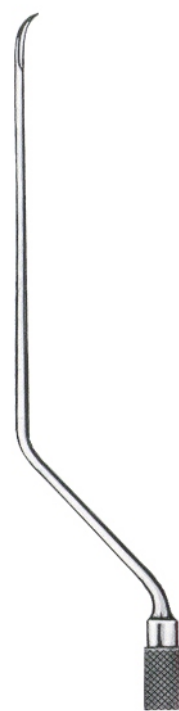
**Koos**  
32-11432-01  
18.5 cm/7¼"



**Koos**  
32-11432-02  
18.5 cm/7¼"



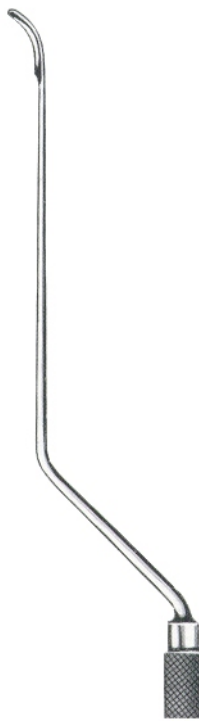
**Koos**  
32-11432-03  
18.5 cm/7¼"



**Koos**  
32-11432-04  
18.5 cm/7¼"



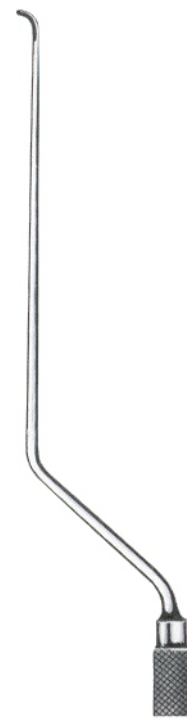
**Koos**  
32-11434-01  
18.5 cm/7¼"



**Koos**  
32-11434-02  
18.5 cm/7¼"



**Yasargil**  
32-11434-03  
18.5 cm/7¼"



**Yasargil**  
32-11434-04  
18.5 cm/7¼"



NEURO AND LAMINECTOMY



**Yasargil**  
32-11438-01  
18.5 cm/7 1/4"



**Yasargil**  
32-11438-02  
18.5 cm/7 1/4"



**Yasargil**  
32-11438-03  
18.5 cm/7 1/4"



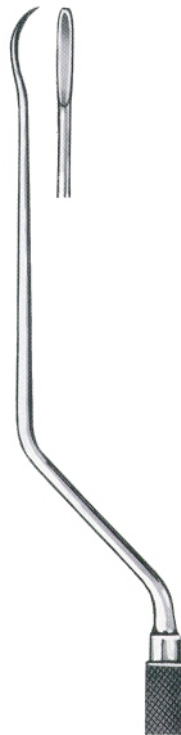
**Yasargil**  
32-11438-04  
18.5 cm/7 1/4"



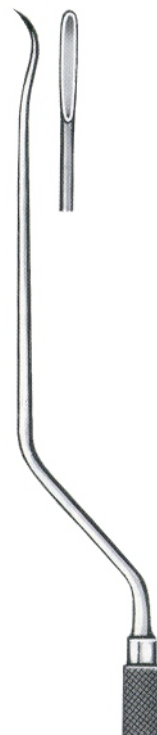
**Yasargil**  
32-11438-05  
18.5 cm/7 1/4"



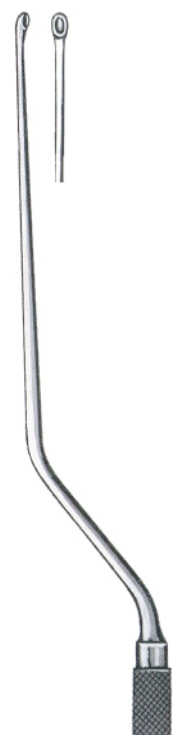
**Yasargil**  
32-11440-01  
18.5 cm/7 1/4"



**Yasargil**  
32-11440-02  
18.5 cm/7 1/4"



**Yasargil**  
32-11440-03  
18.5 cm/7 1/4"



**Yasargil**  
32-11440-04  
18.5 cm/7 1/4"

## NEURO AND LAMINECTOMY



32-11444-01  
18.5 cm/7 1/4"



32-11444-02  
18.5 cm/7 1/4"



**kraeynbuhl**  
32-11448-01  
18.5 cm/7 1/4"



32-11448-02



32-11448-03



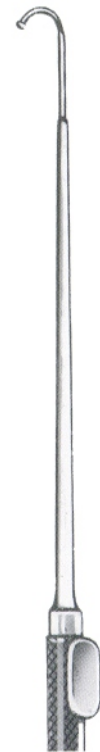
32-11448-04



**Yasargil**  
32-11450-01  
18.5 cm/7 1/4"



**Yasargil**  
32-11450-02  
18.5 cm/7 1/4"



**Yasargil**  
32-11450-03  
18.5 cm/7 1/4"



**Yasargil**  
32-11450-04  
18.5 cm/7 1/4"



## NEURO AND LAMINECTOMY



## NEURO AND LAMINECTOMY



**Rhoton**  
19 cm/7½"



Dissector Round  
32-11470-01  
Ø 1 mm



Dissector Round  
32-11470-02  
Ø 2 mm



Dissector Round  
32-11470-03  
Ø 3 mm



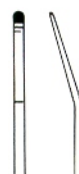
Dissector Spatula Shaped  
32-11470-04  
Ø 1 mm



Dissector Spatula Shaped  
32-11470-05  
Ø 1.5 mm



Dissector Spatula Shaped  
32-11470-06  
Ø 2.0 mm



Elevator  
32-11470-07  
Ø 1.2 mm



Elevator  
32-11470-08  
Ø 2.8 mm



Needle Semi-Sharp  
32-11470-09



Hook Blunt  
32-11470-10  
90° 2 mm



Hook Semi-Sharp  
32-11470-11  
90° 2 mm



Hook Semi-Sharp  
32-11470-12  
45° 3 mm



Probe Angled  
32-11470-13  
90°



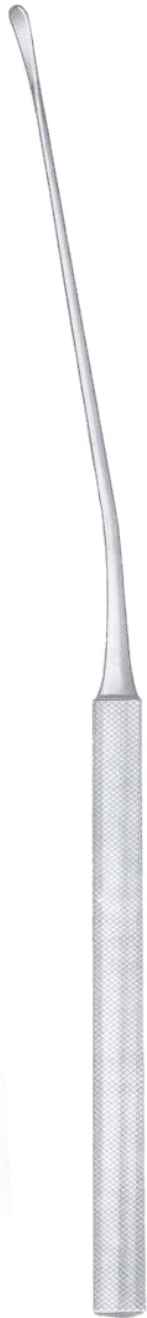
Probe Angled  
32-11470-14  
1.0 x 2.0 mm



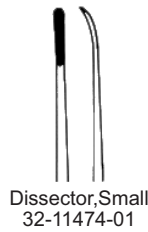
Probe Angled  
32-11470-15  
1.0 x 2.0 mm  
45°



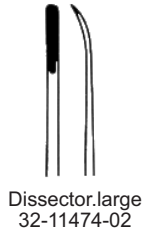
## NEURO AND LAMINECTOMY



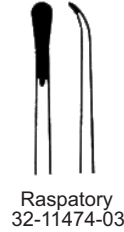
**Jannetta**  
19 cm/7½"



Dissector, Small  
32-11474-01



Dissector, large  
32-11474-02



Raspatory  
32-11474-03



Hook, Small  
32-11474-04  
90°



Hook Medium  
32-1474-05  
90°



Hook large  
32-1474-06  
90°



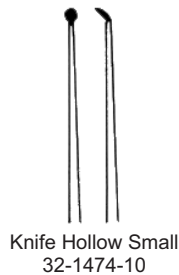
Hook Angular  
32-1474-07  
45°



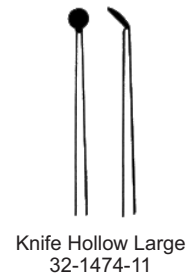
Hook Medium  
32-1474-08  
45°



Elevator Angula  
32-1474-09



Knife Hollow Small  
32-1474-10



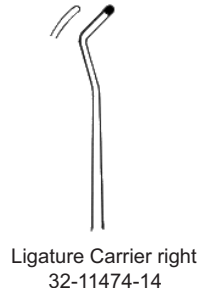
Knife Hollow Large  
32-1474-11



Probe ball-tipped  
32-1474-12



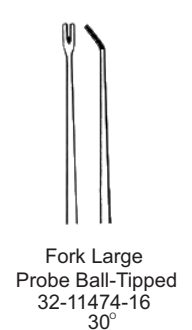
Ligature Carrier left  
32-11474-13



Ligature Carrier right  
32-11474-14



Fork Small  
32-11474-15  
30°



Fork Large  
Probe Ball-Tipped  
32-11474-16  
30°

## NEURO AND LAMINECTOMY



19 cm/7 1/2"



Micro Dissectors  
32-11478-01  
2 mm



32-11478-02  
5mm



32-11478-03  
8mm

Nerve Hooks



32-11478-04  
3mm

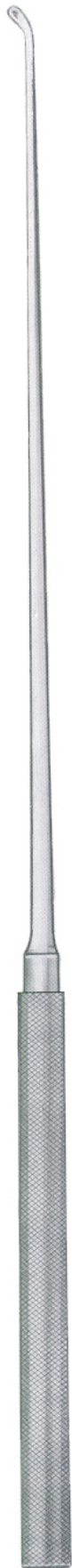


32-11478-05  
5mm

Micro Ligature Needle



## NEURO AND LAMINECTOMY



**Samil**  
20 cm/8"  
23 cm/9"



32-11482-01  
32-11484-01  
1.0 x 5.0 mm



20 cm/8"  
23 cm/9"



32-11482-02  
32-11484-02  
1.5 x 5.0 mm



32-11482-03  
32-11484-03  
2.0 x 5.5 mm



20 cm/8"  
23 cm/9"



32-11482-04  
32-11484-04  
2.5 x 6.0 mm



32-11482-05  
32-11484-05  
3.0 x 7.0 mm



20 cm/8"  
23 cm/9"



32-11482-06  
32-11484-06  
3.5 x 7.0 mm



32-11482-07  
32-11484-07  
4.0 x 7.5 mm

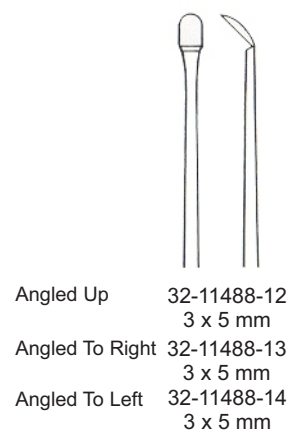
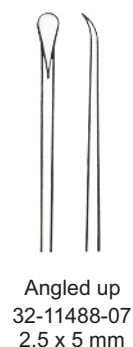
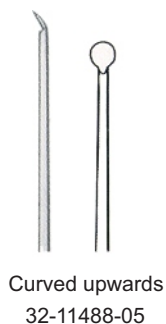


20 cm/8"  
23 cm/9"



32-11482-08  
32-11484-08  
5.0 x 8.0 mm

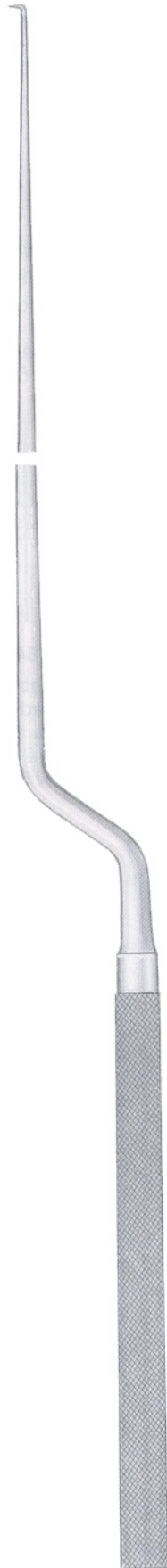
## NEURO AND LAMINECTOMY





## NEURO AND LAMINECTOMY

12.5 cm/5"



24 cm/9½"

Angled Up  
Curved Right  
Curved Left

Blunt  
32-11492-01  
32-11494-01  
32-11496-01  
90° 2 mm

Blunt  
32-11492-02  
32-11494-02  
32-11496-02  
90° 2.5 mm

Semi-Sharp  
32-11492-03  
32-11494-03  
32-11496-03  
90° 2 mm

Angled Up  
Curved Right  
Curved Left

Blunt  
32-11492-04  
32-11494-04  
32-11496-04  
90° 3 mm

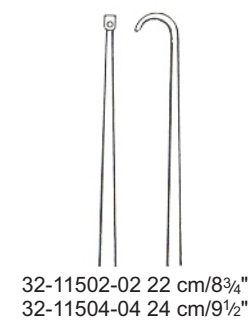
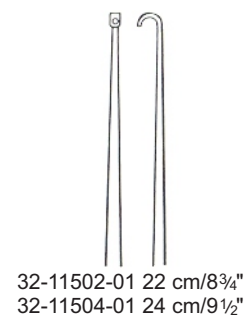
Ball Pointed  
32-11492-05  
32-11494-05  
32-11496-05  
90° 3 mm

Blunt  
32-11492-06  
32-11494-06  
32-11496-06  
30° 3 mm



## NEURO AND LAMINECTOMY

Working Length  
12.5 cm/5"



24 cm/9½"

22 cm/8¾"  
24 cm/9½"



### NEURO AND LAMINECTOMY



**Hardy**  
24 cm/9½"

#### Sickle Dissectors

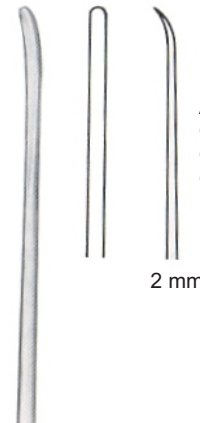


|              |             |
|--------------|-------------|
| Angled Up    | 32-11508-01 |
| Curved Down  | 32-11508-02 |
| Curved Right | 32-11508-03 |
| Curved Left  | 32-11508-04 |



**Hardy**

**Implant Fork**  
32-11508-07



2 mm

|              |             |
|--------------|-------------|
| Angled Up    | 32-11508-08 |
| Curved Down  | 32-11508-09 |
| Curved Right | 32-11508-10 |
| Curved Left  | 32-11508-11 |



**Hardy-Fahlbusch**  
32-11508-05



**Hardy-Fahlbusch**  
32-11508-06

4 mm



|             |             |
|-------------|-------------|
| Angled Up   | 32-11508-12 |
| Curved Down | 32-11508-13 |

## NEURO AND LAMINECTOMY



24 cm/9 1/2"

Spatula Dissectors



Curved Up Flexible  
 32-11512-01  
 8 x 100 mm

Curved Down Flexible  
 32-11512-02  
 8 x 100 mm



Straight  
 32-11512-03  
 5 x 20 mm



32-11512-06  
 32-11512-07  
 2 mm

Dissectors Angled



Sharp Angled Up  
 32-11512-04  
 5 mm  
 Sharp Angled Down  
 32-11512-05

Raspatories

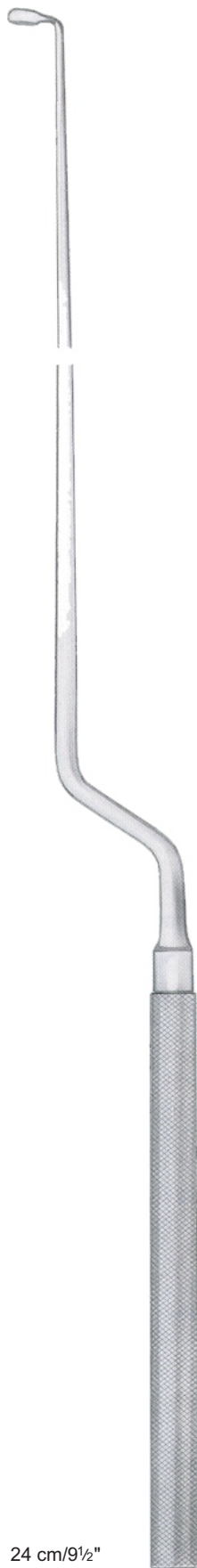


Curved Up  
 Curved Down

32-11512-08  
 32-11512-09  
 4 mm



### NEURO AND LAMINECTOMY



24 cm/9½"

Right

Up  
Down  
Right  
Left



32-11516-01  
32-11518-01  
32-11520-01  
32-11522-01  
Ø 2.5 mm  
90°



32-11516-02  
32-11518-02  
32-11520-02  
32-11522-02  
Ø 4.0 mm  
90°



32-11516-03  
32-11518-03  
32-11520-03  
32-11522-03  
Ø 5.0 mm  
90°

Down

Up  
Down  
Right  
Left



32-11516-04  
32-11518-04  
32-11520-04  
32-11522-04  
25 mm  
45°



32-11516-05  
32-11518-05  
32-11520-05  
32-11522-05  
40 mm  
45°



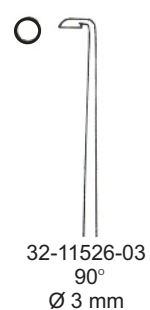
32-11516-06  
32-11518-06  
32-11520-06  
32-11522-06  
5 mm  
45°



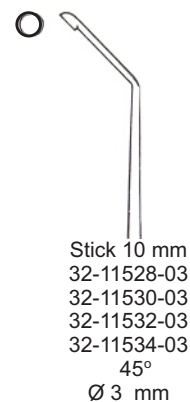
## NEURO AND LAMINECTOMY



Malleable



With Stick



24 cm/9 1/2"



## NEURO AND LAMINECTOMY



Sharp  
32-11538-01  
24 cm/9½"



32-11538-02



32-11538-03



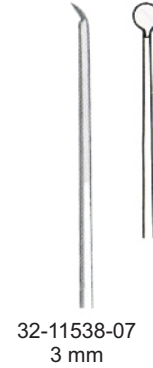
32-11538-04



32-11538-05



32-11538-06  
2.5 mm



32-11538-07  
3 mm



32-11538-08  
3 mm



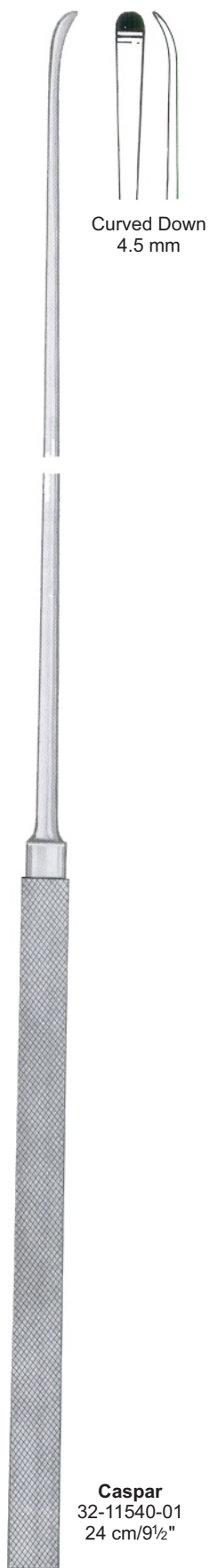
32-11538-09  
5 mm



32-11538-10  
8 mm



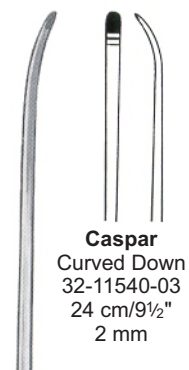
## NEURO AND LAMINECTOMY



**Caspar**  
32-11540-01  
24 cm/9½"



**Caspar**  
32-11540-02  
24 cm/9½"



**Caspar**  
Curved Down  
32-11540-03  
24 cm/9½"  
2 mm



NEURO AND LAMINECTOMY



Curved Down  
1 mm

**Caspar**  
32-11540-04  
21.5 cm/8½"



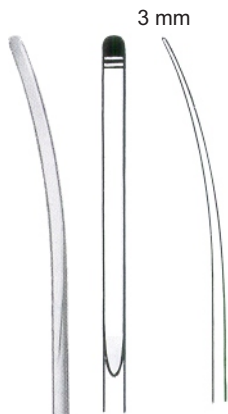
Angled Up  
1 mm

**Caspar**  
32-11540-05  
21.5 cm/8½"



**Caspar**  
Curved Down  
32-11540-06  
21.5 cm/8½"  
1 mm

## NEURO AND LAMINECTOMY



32-11542-01  
19 cm/7½"



32-11542-02  
21.5 cm/8½"

Curette



Horizontal 45°  
32-11546-01  
Ø 4 mm



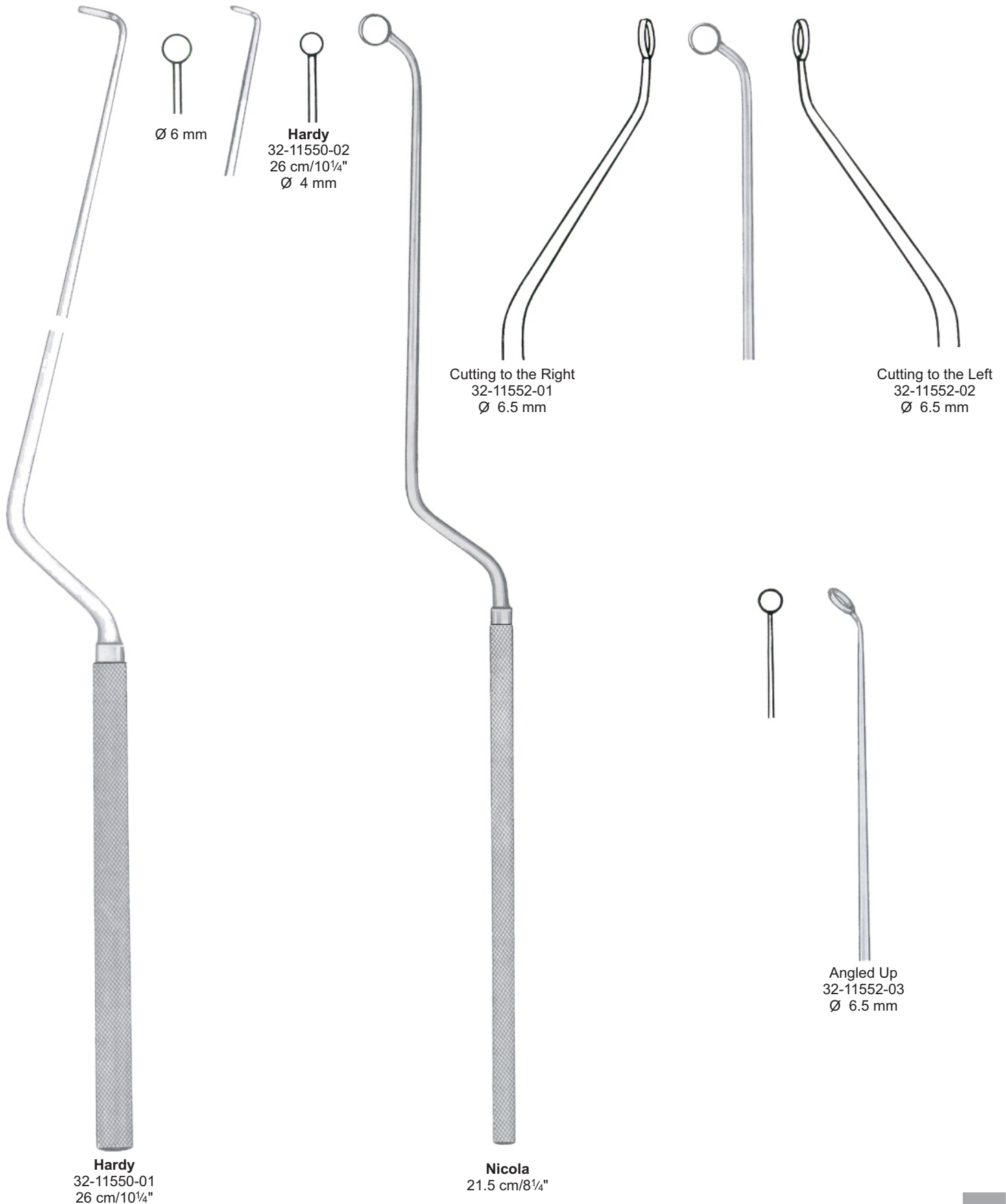
Vertical 45°  
32-11546-02  
Ø 4 mm



**Ray**  
19 cm/7½"

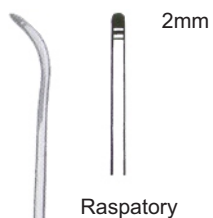


## NEURO AND LAMINECTOMY





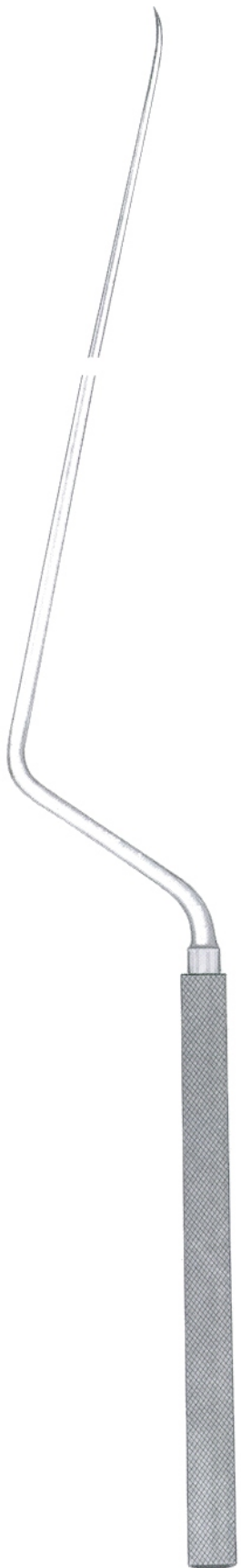
## NEURO AND LAMINECTOMY



Enucleators Blunt Malleable



## NEURO AND LAMINECTOMY



26 cm/10<sup>3</sup>/<sub>4</sub>"



**Landolt-Reulen**  
Dissector rigid  
32-11562-01  
2mm



**Landolt-Reulen**  
Blunt Hook rigid  
32-11562-02  
1.7mm



**Fahlbusch**  
Curette malleable  
32-11562-03  
2.5 mm Ø



**Landolt-Reulen**  
Curette rigid  
32-11562-04  
2.5 mm Ø

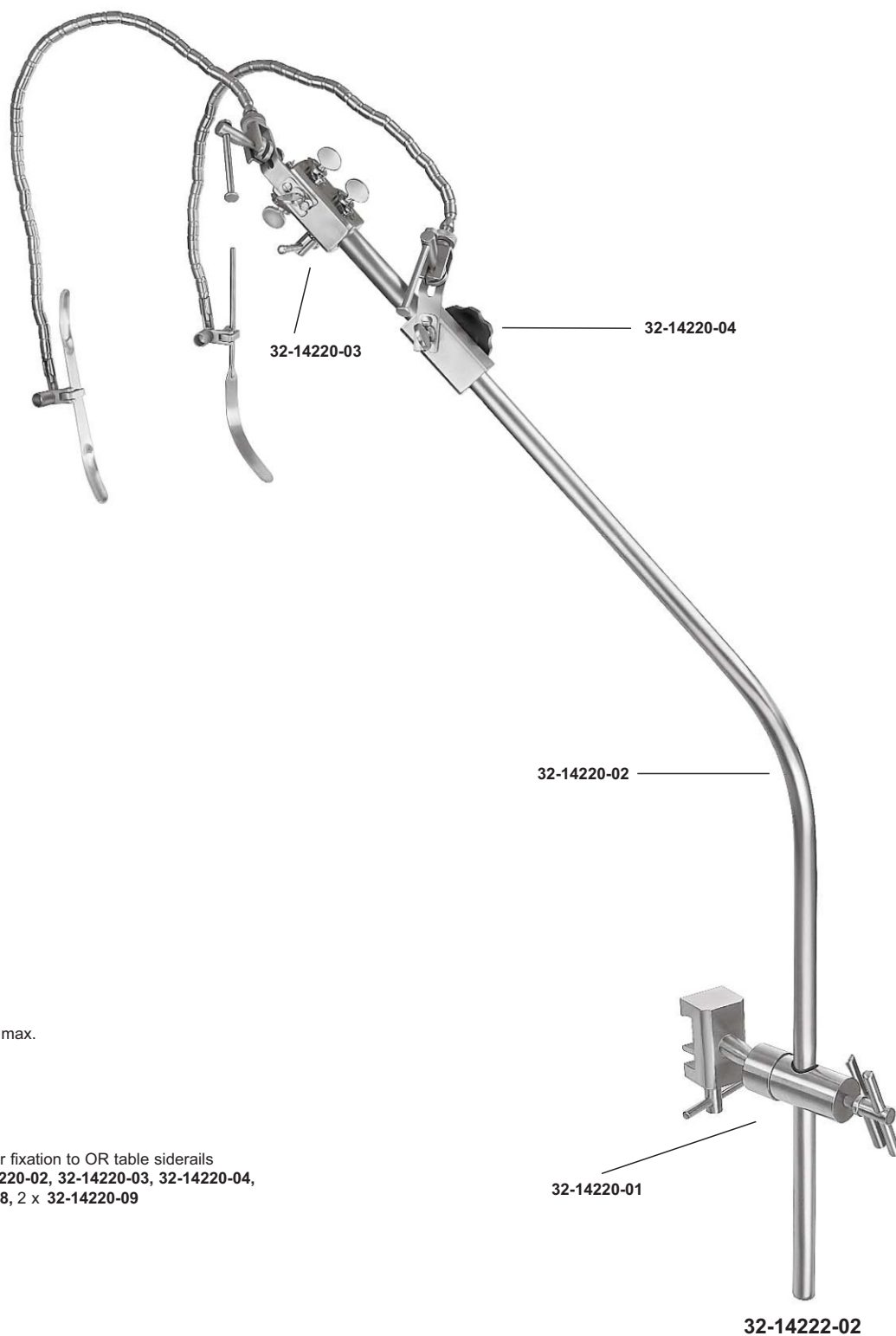


**Fahlbusch**  
Scoop malleable  
32-11562-05



**Landolt-Reulen**  
Raspatory rigid  
32-11562-06  
2.2 mm  
3.2 mm

## CRANIOTOMY



### 32-14220-01

Ball and socket joint, articulated

### 32-14220-02

Holding rod for fixation

### 32-14220-03

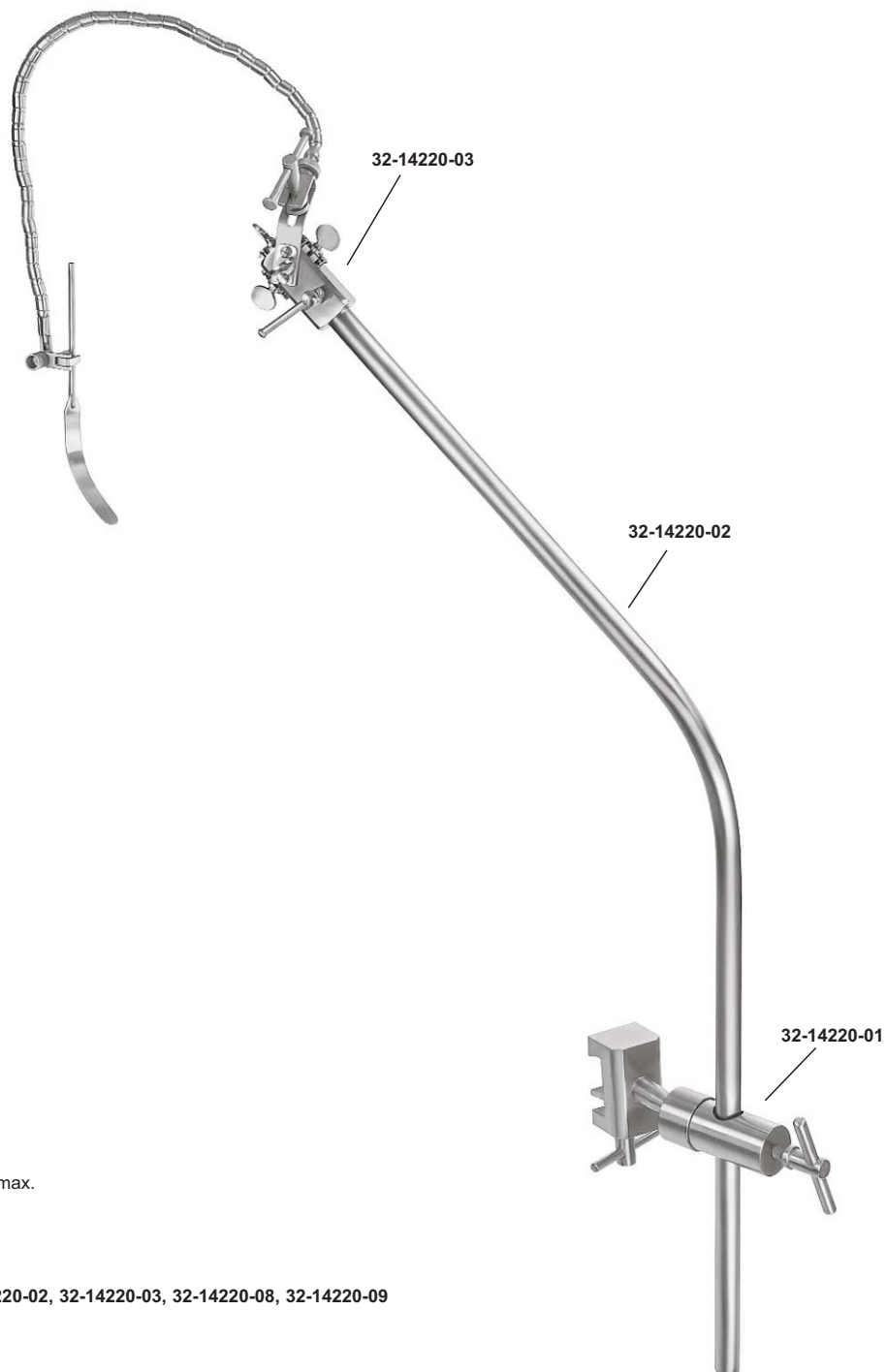
Coupling head for 5 flexible arms max.

### 32-14220-04

Coupling head rotatable

### 32-14222-02

LEYLA retractor Set 2 (2 Arms) for fixation to OR table siderails  
 consisting of: 32-14220-01, 32-14220-02, 32-14220-03, 32-14220-04,  
 2 x 32-14220-07, 2 x 32-14220-08, 2 x 32-14220-09

**32-14220-01**

Ball and socket joint, articulated

**32-14220-02**

Holding rod for fixation

**32-14220-03**

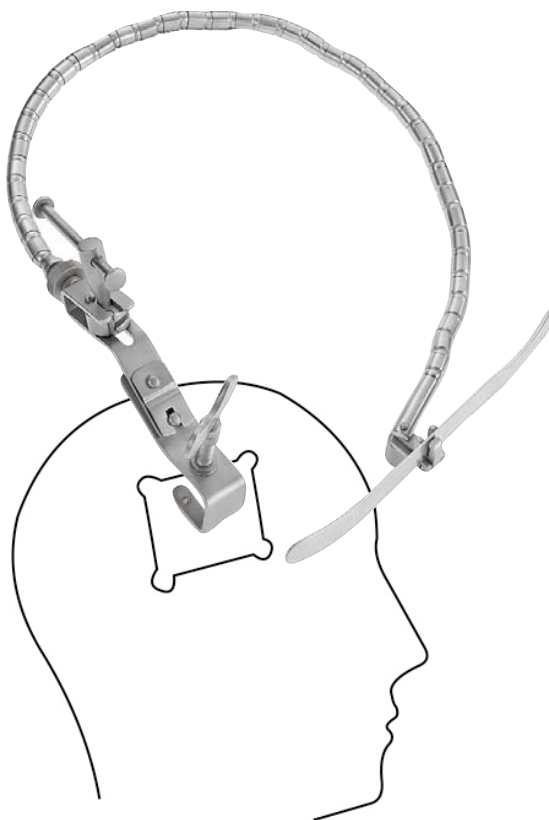
Coupling head for 5 flexible arms max.

**32-14221-01**

LEYLA retractor Set 1 (1 Arm)  
for fixation to OR table siderails  
consisting of: 32-14220-01, 32-14220-02, 32-14220-03, 32-14220-08, 32-14220-09

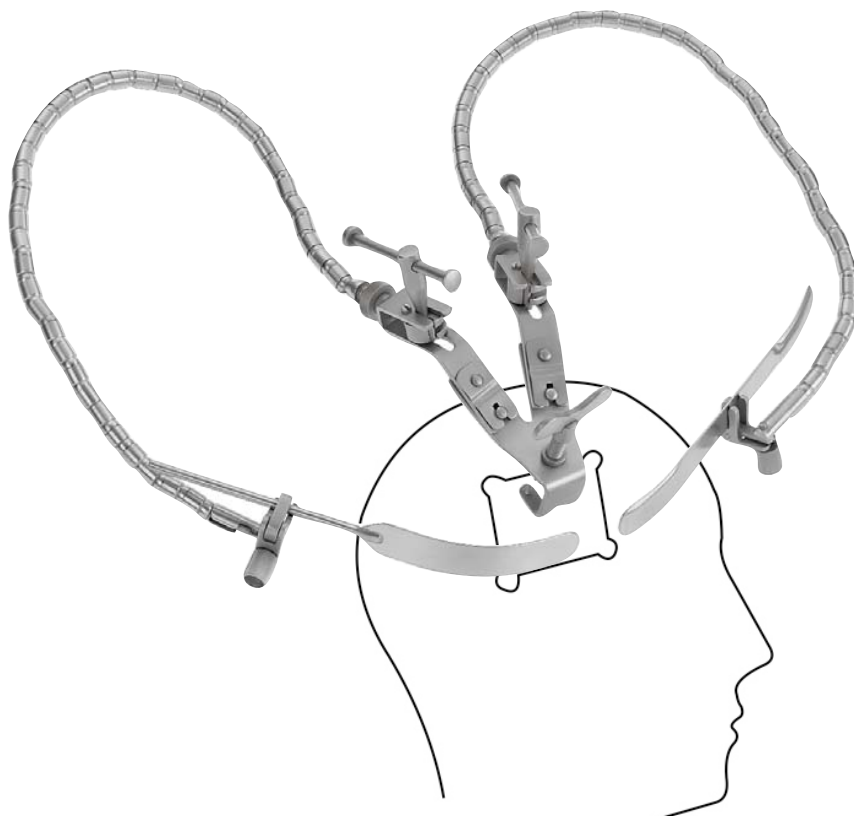
**32-14221-01**

## CRANIOTOMY



### **32-14221-00**

Brain retractor, self retaining, flexible,  
for flat spatula,  
with 1 flexible arm, complete, consisting of:  
**32-14220-05, 32-14220-08, 32-14220-09**

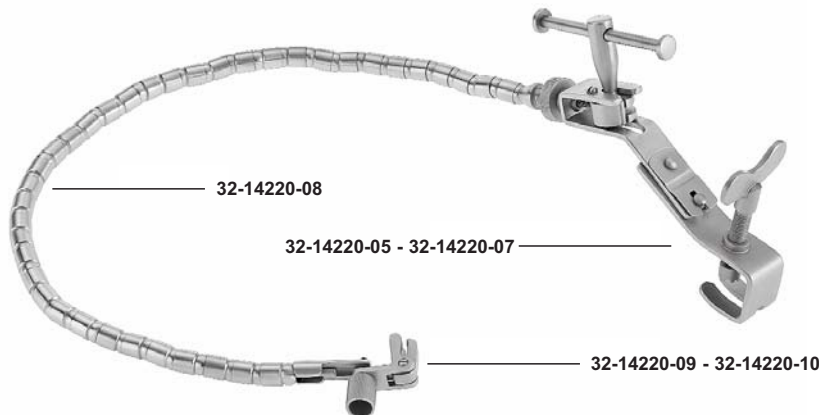


### **32-14222-00**

Brain retractor, self retaining, flexible,  
for flat spatula,  
with 2 flexible arms, complete, consisting of:  
**32-14220-06, 2 x 32-14220-08, 2 x 32-14220-09**



**CRANIOTOMY**



**32-14220-08**  
Flexible arm only

**32-14220-05, 32-14220-06, 32-14220-07**  
Fixation bases for skull or rigid holding arm



**32-14220-05**



**32-14220-12**  
Ear specula holder only



**32-14220-06**

**32-14220-06**  
Fixation base for 2 arms at skull



**32-14220-09**  
Holder for flat brain spatula



**32-14220-07**

**32-14220-07**  
Fixation base for 1 arm at rigid arm



**32-14220-10**  
Holder for brain spatula with round stem



## NEURO AND LAMINECTOMY

## A

| Cat Code #  | P. # | Description                         |
|-------------|------|-------------------------------------|
| 31-11192-01 | 18   | Adson Nerve Root Retractors 20cm/8" |
| 31-11192-02 | 18   | Adson Nerve Root Retractors 20cm/8" |

## B

| Cat Code #  | P. # | Description                             |
|-------------|------|-----------------------------------------|
| 31-11046-70 | 9    | Baldes for Hey Lamina Spreaders 70mm    |
| 31-11044-60 | 9    | Blades for Hey Lamina Spreaders 20x60mm |
| 31-11044-70 | 9    | Blades for Hey Lamina Spreaders 20x70mm |
| 31-11044-50 | 9    | Blades for Hey Lamina Spreaders 25x50mm |
| 31-11046-50 | 9    | Blades for Hey Lamina Spreaders 50mm    |
| 31-11046-60 | 9    | Blades for Hey Lamina Spreaders 60mm    |
| 31-10988-35 | 4    | Blades for Lamina Spreaders 35x22mm     |
| 31-10986-35 | 4    | Blades for Lamina Spreaders 35x37mm     |
| 31-10984-35 | 4    | Blades for Lamina Spreaders 35x52mm     |
| 31-11018-40 | 6    | Blades for Lamina Spreaders 40mm        |
| 31-10976-40 | 4    | Blades for Lamina Spreaders 40x20mm     |
| 31-10978-40 | 4    | Blades for Lamina Spreaders 40x20mm     |
| 31-10980-40 | 4    | Blades for Lamina Spreaders 40x20mm     |
| 31-10988-40 | 4    | Blades for Lamina Spreaders 40x22mm     |
| 31-10986-40 | 4    | Blades for Lamina Spreaders 40x37mm     |
| 31-10984-40 | 4    | Blades for Lamina Spreaders 40x52mm     |
| 31-11018-45 | 6    | Blades for Lamina Spreaders 45mm        |
| 31-10976-45 | 4    | Blades for Lamina Spreaders 45x20mm     |
| 31-10978-45 | 4    | Blades for Lamina Spreaders 45x20mm     |
| 31-10980-45 | 4    | Blades for Lamina Spreaders 45x20mm     |
| 31-10988-45 | 4    | Blades for Lamina Spreaders 45x22mm     |
| 31-10986-45 | 4    | Blades for Lamina Spreaders 45x37mm     |
| 31-10984-45 | 4    | Blades for Lamina Spreaders 45x52mm     |
| 31-10990-50 | 4    | Blades for Lamina Spreaders 50mm        |
| 31-11018-50 | 6    | Blades for Lamina Spreaders 50mm        |
| 31-10976-50 | 4    | Blades for Lamina Spreaders 50x20mm     |
| 31-10978-50 | 4    | Blades for Lamina Spreaders 50x20mm     |
| 31-10980-50 | 4    | Blades for Lamina Spreaders 50x20mm     |
| 31-10988-50 | 4    | Blades for Lamina Spreaders 50x22mm     |
| 31-10982-50 | 4    | Blades for Lamina Spreaders 50x25mm     |
| 31-10986-50 | 4    | Blades for Lamina Spreaders 50x37mm     |
| 31-10984-50 | 4    | Blades for Lamina Spreaders 50x52mm     |
| 31-11018-55 | 6    | Blades for Lamina Spreaders 55mm        |
| 31-10976-55 | 4    | Blades for Lamina Spreaders 55x20mm     |
| 31-10978-55 | 4    | Blades for Lamina Spreaders 55x20mm     |
| 31-10980-55 | 4    | Blades for Lamina Spreaders 55x20mm     |
| 31-10988-55 | 4    | Blades for Lamina Spreaders 55x22mm     |
| 31-10986-55 | 4    | Blades for Lamina Spreaders 55x37mm     |
| 31-10984-55 | 4    | Blades for Lamina Spreaders 55x52mm     |
| 31-11018-60 | 6    | Blades for Lamina Spreaders 60mm        |
| 31-10976-60 | 4    | Blades for Lamina Spreaders 60x20mm     |

## B

| Cat Code #  | P. # | Description                                |
|-------------|------|--------------------------------------------|
| 31-10978-60 | 4    | Blades for Lamina Spreaders 60x20mm        |
| 31-10980-60 | 4    | Blades for Lamina Spreaders 60x20mm        |
| 31-10988-60 | 4    | Blades for Lamina Spreaders 60x22mm        |
| 31-10982-50 | 4    | Blades for Lamina Spreaders 60x25mm        |
| 31-10986-60 | 4    | Blades for Lamina Spreaders 60x37mm        |
| 31-10984-60 | 4    | Blades for Lamina Spreaders 60x52mm        |
| 31-10988-65 | 4    | Blades for Lamina Spreaders 65x22mm        |
| 31-10986-65 | 4    | Blades for Lamina Spreaders 65x37mm        |
| 31-10984-65 | 4    | Blades for Lamina Spreaders 65x52mm        |
| 31-10992-70 | 4    | Blades for Lamina Spreaders 70mm           |
| 31-10988-70 | 4    | Blades for Lamina Spreaders 70x22mm        |
| 31-10986-70 | 4    | Blades for Lamina Spreaders 70x37mm        |
| 31-10984-70 | 4    | Blades for Lamina Spreaders 70x52mm        |
| 32-11526-01 | 50   | Bone Curettes 3mm 24cm/9 1/2"              |
| 32-11526-02 | 50   | Bone Curettes 3mm 24cm/9 1/2"              |
| 32-11526-03 | 50   | Bone Curettes 3mm 24cm/9 1/2"              |
| 32-11526-04 | 50   | Bone Curettes 3mm 24cm/9 1/2"              |
| 32-11518-01 | 49   | Bone Curettes Down 2.5mm 24cm/9 1/2"       |
| 32-11518-04 | 49   | Bone Curettes Down 25mm 24cm/9 1/2"        |
| 32-11518-02 | 49   | Bone Curettes Down 4.0mm 24cm/9 1/2"       |
| 32-11518-05 | 49   | Bone Curettes Down 40mm 24cm/9 1/2"        |
| 32-11518-03 | 49   | Bone Curettes Down 5.0mm 24cm/9 1/2"       |
| 32-11518-06 | 49   | Bone Curettes Down 5mm 24cm/9 1/2"         |
| 32-11530-03 | 50   | Bone Curettes Down Stick 10mm 24cm/9 1/2"  |
| 32-11530-01 | 50   | Bone Curettes Down Stick 5mm 24cm/9 1/2"   |
| 32-11530-02 | 50   | Bone Curettes Down Stick 5mm 24cm/9 1/2"   |
| 32-11522-01 | 49   | Bone Curettes Left 2.5mm 24cm/9 1/2"       |
| 32-11522-04 | 49   | Bone Curettes Left 25mm 24cm/9 1/2"        |
| 32-11522-02 | 49   | Bone Curettes Left 4.0mm 24cm/9 1/2"       |
| 32-11522-05 | 49   | Bone Curettes Left 40mm 24cm/9 1/2"        |
| 32-11522-03 | 49   | Bone Curettes Left 5.0mm 24cm/9 1/2"       |
| 32-11522-06 | 49   | Bone Curettes Left 5mm 24cm/9 1/2"         |
| 32-11534-03 | 50   | Bone Curettes Left Stick 10mm 24cm/9 1/2"  |
| 32-11534-01 | 50   | Bone Curettes Left Stick 5mm 24cm/9 1/2"   |
| 32-11534-02 | 50   | Bone Curettes Left Stick 5mm 24cm/9 1/2"   |
| 32-11536-25 | 50   | Bone Curettes Malleable 2.5mm 24cm/9 1/2"  |
| 32-11536-30 | 50   | Bone Curettes Malleable 3.0mm 24cm/9 1/2"  |
| 32-11536-35 | 50   | Bone Curettes Malleable 3.5mm 24cm/9 1/2"  |
| 32-11536-40 | 50   | Bone Curettes Malleable 4.0mm 24cm/9 1/2"  |
| 32-11520-01 | 49   | Bone Curettes Right 2.5mm 24cm/9 1/2"      |
| 32-11520-04 | 49   | Bone Curettes Right 25mm 24cm/9 1/2"       |
| 32-11520-02 | 49   | Bone Curettes Right 4.0mm 24cm/9 1/2"      |
| 32-11520-05 | 49   | Bone Curettes Right 40mm 24cm/9 1/2"       |
| 32-11520-03 | 49   | Bone Curettes Right 5.0mm 24cm/9 1/2"      |
| 32-11520-06 | 49   | Bone Curettes Right 5mm 24cm/9 1/2"        |
| 32-11532-03 | 50   | Bone Curettes Right Stick 10mm 24cm/9 1/2" |


**B**

| Cat Code #  | P. # | Description                               |
|-------------|------|-------------------------------------------|
| 32-11532-01 | 50   | Bone Curettes Right Stick 5mm 24cm/9 1/2" |
| 32-11532-02 | 50   | Bone Curettes Right Stick 5mm 24cm/9 1/2" |
| 32-11516-01 | 49   | Bone Curettes Up 2.5mm 24cm/9 1/2"        |
| 32-11516-04 | 49   | Bone Curettes Up 25mm 24cm/9 1/2"         |
| 32-11516-02 | 49   | Bone Curettes Up 4.0mm 24cm/9 1/2"        |
| 32-11516-05 | 49   | Bone Curettes Up 40mm 24cm/9 1/2"         |
| 32-11516-03 | 49   | Bone Curettes Up 5.0mm 24cm/9 1/2"        |
| 32-11516-06 | 49   | Bone Curettes Up 5mm 24cm/9 1/2"          |
| 32-11528-03 | 50   | Bone Curettes Up Stick 10mm 24cm/9 1/2"   |
| 32-11528-01 | 50   | Bone Curettes Up Stick 5mm 24cm/9 1/2"    |
| 32-11528-02 | 50   | Bone Curettes Up Stick 5mm 24cm/9 1/2"    |
| 31-11152-09 | 16   | Brain Spatulas 7x9mm 18cm/7"              |
| 31-11152-13 | 16   | Brain Spatulas 11x13mm 18cm/7"            |
| 31-11152-18 | 16   | Brain Spatulas 15x18mm 18cm/7"            |
| 31-11152-22 | 16   | Brain Spatulas 18x22mm 18cm/7"            |

**C**

| Cat Code #  | P. # | Description                                             |
|-------------|------|---------------------------------------------------------|
| 31-10998-01 | 5    | Caspar Lamina Spreaders 12cm/4 3/4" Retractor           |
| 31-10994-01 | 5    | Caspar Lamina Spreaders 15cm/6" Retractor               |
| 31-10994-00 | 5    | Caspar Lamina Spreaders Complete                        |
| 31-10998-00 | 5    | Caspar Lamina Spreaders Complete                        |
| 31-11002-00 | 5    | Caspar Lamina Spreaders Complete                        |
| 31-11006-00 | 5    | Caspar Lamina Spreaders Complete                        |
| 31-11010-00 | 6    | Caspar Lamina Spreaders Complete                        |
| 31-11018-00 | 6    | Caspar Lamina Spreaders Complete                        |
| 31-11014-00 | 6    | Caspar Lamina Spreaders Complete                        |
| 31-11002-01 | 5    | Caspar Lamina Spreaders Spreader                        |
| 31-11006-01 | 5    | Caspar Lamina Spreaders Spreader                        |
| 32-11540-05 | 53   | Casper Dissectors Angled Up 1mm 21.5cm/8 1/2"           |
| 32-11540-04 | 53   | Casper Dissectors Curved Down 1mm 21.5cm/8 1/2"         |
| 32-11540-06 | 53   | Casper Dissectors Curved Down 1mm 21.5cm/8 1/2"         |
| 32-11540-03 | 52   | Casper Dissectors Curved Down 2mm 24cm/9 1/2"           |
| 32-11540-01 | 52   | Casper Dissectors Curved Down 4.5mm 24cm/9 1/2"         |
| 32-11540-02 | 52   | Casper Dissectors Curved Down 4.5mm 24cm/9 1/2"         |
| 31-11060-21 | 11   | Centre Blades 16x19mm                                   |
| 31-11060-22 | 11   | Centre Blades 16x25mm                                   |
| 31-11060-23 | 11   | Centre Blades 16x32mm                                   |
| 31-10956-00 | 2    | Cervical Traction Tongs                                 |
| 31-11036-15 | 8    | Cloward Lamina Spreaders 15cm/6"                        |
| 31-11026-00 | 7    | Cloward Lamina Spreaders 15cm/6" Complete with 5 Blades |
| 31-11022-40 | 7    | Cloward Lamina Spreaders 15x40mm                        |
| 31-11026-40 | 7    | Cloward Lamina Spreaders 15x40mm                        |
| 31-11022-45 | 7    | Cloward Lamina Spreaders 15x45mm                        |
| 31-11026-45 | 7    | Cloward Lamina Spreaders 15x45mm                        |

**C**

| Cat Code #  | P. # | Description                                                |
|-------------|------|------------------------------------------------------------|
| 31-11022-50 | 7    | Cloward Lamina Spreaders 15x50mm                           |
| 31-11026-50 | 7    | Cloward Lamina Spreaders 15x50mm                           |
| 31-11022-55 | 7    | Cloward Lamina Spreaders 15x55mm                           |
| 31-11026-55 | 7    | Cloward Lamina Spreaders 15x55mm                           |
| 31-11022-60 | 7    | Cloward Lamina Spreaders 15x60mm                           |
| 31-11026-60 | 7    | Cloward Lamina Spreaders 15x60mm                           |
| 31-11040-16 | 8    | Cloward Lamina Spreaders 16cm/6 1/4"                       |
| 31-11022-00 | 7    | Cloward Lamina Spreaders 25cm/10" Complete with 5 Blades   |
| 31-11196-16 | 19   | Cloward Nerve Retractors 16cm/6 1/2"                       |
| 31-11296-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 15cm/6"         |
| 31-11298-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 15cm/6"         |
| 31-11300-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 15cm/6"         |
| 31-11302-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 20cm/8"         |
| 31-11304-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 20cm/8"         |
| 31-11306-03 | 24   | Colclough Intervertebral Disc Rongeurs 3mm 20cm/8"         |
| 31-11296-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 15cm/6"         |
| 31-11298-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 15cm/6"         |
| 31-11300-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 15cm/6"         |
| 31-11302-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 20cm/8"         |
| 31-11304-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 20cm/8"         |
| 31-11306-05 | 24   | Colclough Intervertebral Disc Rongeurs 5mm 20cm/8"         |
| 31-10948-00 | 2    | Crutchfield Cervical Traction Tongs                        |
| 31-10952-00 | 2    | Crutchfield Cervical Traction Tongs                        |
| 31-10960-00 | 2    | Crutchfield Cervical Traction Tongs Complete with 2 Drills |
| 31-11136-17 | 15   | Cushing Brain Spatulas 17cm/6 3/4"                         |
| 31-11136-20 | 15   | Cushing Brain Spatulas 20cm/8"                             |
| 31-11136-28 | 15   | Cushing Brain Spatulas 28cm/11"                            |
| 31-11310-01 | 25   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11310-02 | 25   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11310-03 | 25   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11330-01 | 26   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11330-02 | 26   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11330-03 | 26   | Cushing Laminectomy Rongeurs 2x10cm 5"/13cm                |
| 31-11312-01 | 25   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11312-02 | 25   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11312-03 | 25   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11332-01 | 26   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11332-02 | 26   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11332-03 | 26   | Cushing Laminectomy Rongeurs 2x10cm 6"/15cm                |
| 31-11314-01 | 25   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm                |
| 31-11314-02 | 25   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm                |
| 31-11314-03 | 25   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm                |
| 31-11334-01 | 26   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm                |
| 31-11334-02 | 26   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm                |



## NEURO AND LAMINECTOMY

## C

| Cat Code #  | P. # | Description                                 |
|-------------|------|---------------------------------------------|
| 31-11334-03 | 26   | Cushing Laminectomy Rongeurs 2x10cm 7"/18cm |
| 31-11190-14 | 18   | Cushing Nerve Root Retractors 14cm/5 1/2"   |
| 31-11184-19 | 18   | Cushing Nerve Root Retractors 19cm/7 3/4"   |
| 31-11184-28 | 18   | Cushing Nerve Root Retractors 28cm/11"      |

## D

| Cat Code #  | P. # | Description                                                             |
|-------------|------|-------------------------------------------------------------------------|
| 31-10640-20 | 1    | Dahlgren Instruments for Cranial Opening 20cm/8" With 2 Extra Hooks     |
| 31-11204-01 | 19   | Dandy Nerve Retractors 20cm/8"                                          |
| 31-11204-02 | 19   | Dandy Nerve Retractors 20cm/8"                                          |
| 31-11204-03 | 19   | Dandy Nerve Retractors 20cm/8"                                          |
| 31-11070-24 | 12   | Davis Dura Dissectors 24.5cm/9 3/4"                                     |
| 31-10644-21 | 1    | De Vilbiss Instruments for Cranial Opening 21cm/8 1/4" With 1 Hook Each |
| 32-11430-03 | 35   | Decker Micro Forceps 14cm Curved Left                                   |
| 32-11430-02 | 35   | Decker Micro Forceps 14cm Curved Right                                  |
| 32-11430-01 | 35   | Decker Micro Forceps 14cm Straight                                      |
| 32-11542-01 | 54   | Dissectors 3mm 19cm/7 1/2"                                              |
| 32-11542-02 | 54   | Dissectors 3mm 21.5cm/8 1/2"                                            |
| 32-11488-11 | 44   | Dissectors Angled Up 2.0x6mm 24cm/9 1/2"                                |
| 32-11512-05 | 48   | Dissectors Sharp Angled Down 5mm 24cm/9 1/2"                            |
| 32-11512-04 | 48   | Dissectors Sharp Angled Up 5mm 24cm/9 1/2"                              |
| 32-11488-10 | 44   | Dissectors Straight 0.4mm 24cm/9 1/2"                                   |

## E

| Cat Code #  | P. # | Description                             |
|-------------|------|-----------------------------------------|
| 32-11488-08 | 44   | Elevators Curved Up 1.0x4mm 24cm/9 1/2" |
| 32-11488-09 | 44   | Elevators Curved Up 1.5x5mm 24cm/9 1/2" |

## F

| Cat Code #  | P. # | Description                                                      |
|-------------|------|------------------------------------------------------------------|
| 32-11562-03 | 57   | Fahlbusch Currettes Malleable 2.5mm 26cm/10 3/4"                 |
| 32-11428-02 | 34   | Fahlbusch Micro Scissors Angled Up                               |
| 32-11562-05 | 57   | Fahlbusch Scoop Malleable 26cm/10 3/4"                           |
| 31-11350-01 | 27   | Ferris-Smith Laminectomy Rongeurs 2x10mm                         |
| 31-11350-02 | 27   | Ferris-Smith Laminectomy Rongeurs 2x10mm                         |
| 31-11350-03 | 27   | Ferris-Smith Laminectomy Rongeurs 2x10mm                         |
| 31-11352-01 | 27   | Ferris-Smith Laminectomy Rongeurs 3x10mm                         |
| 31-11352-02 | 27   | Ferris-Smith Laminectomy Rongeurs 3x10mm                         |
| 31-11352-03 | 27   | Ferris-Smith Laminectomy Rongeurs 3x10mm                         |
| 31-11354-01 | 27   | Ferris-Smith Laminectomy Rongeurs 4x10mm                         |
| 31-11354-02 | 27   | Ferris-Smith Laminectomy Rongeurs 4x10mm                         |
| 31-11354-03 | 27   | Ferris-Smith Laminectomy Rongeurs 4x10mm                         |
| 31-11252-00 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 0.6mm 18cm/7" |

## F

| Cat Code #  | P. # | Description                                                      |
|-------------|------|------------------------------------------------------------------|
| 31-11254-00 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 0.6mm 18cm/7" |
| 31-11256-00 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 0.6mm 18cm/7" |
| 31-11252-01 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 1mm 18cm/7"   |
| 31-11254-01 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 1mm 18cm/7"   |
| 31-11256-01 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 1mm 18cm/7"   |
| 31-11252-02 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7"   |
| 31-11254-02 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7"   |
| 31-11256-02 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7"   |
| 31-11240-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11242-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11244-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11260-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11262-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11264-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6"   |
| 31-11252-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7"   |
| 31-11254-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7"   |
| 31-11256-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7"   |
| 31-11272-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7"   |
| 31-11274-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7"   |
| 31-11246-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8"   |
| 31-11248-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8"   |
| 31-11250-03 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8"   |
| 31-11266-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8"   |
| 31-11268-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8"   |



## NEURO AND LAMINECTOMY

### F

| Cat Code #  | P. # | Description                                                    |
|-------------|------|----------------------------------------------------------------|
| 31-11270-03 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8" |
| 31-11252-04 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11254-04 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11256-04 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11240-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11242-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11244-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11260-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11262-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11264-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11252-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11254-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11256-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11272-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11274-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11246-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11248-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11250-05 | 21   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11266-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11268-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11270-05 | 22   | Ferris-Smith-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11106-20 | 13   | Frazier Elevators 20cm/8"                                      |
| 31-11108-20 | 13   | Frazier Elevators 20cm/8"                                      |
| 31-11044-01 | 9    | Frame Only                                                     |
| 31-11078-15 | 12   | Frazier Dura Dissectors 15cm/6"                                |
| 31-11226-13 | 20   | Frazier Nerve Retractors 13cm/5"                               |
| 31-11226-18 | 20   | Frazier Nerve Retractors 18cm/8"                               |

### G

| Cat Code #  | P. # | Description                           |
|-------------|------|---------------------------------------|
| 31-10928-00 | 1    | Gigli Hook Handle                     |
| 31-10932-30 | 1    | Gigli Saws 30cm/12"                   |
| 31-10932-40 | 1    | Gigli Saws 40cm/16"                   |
| 31-10932-50 | 1    | Gigli saws 50cm/20"                   |
| 31-11218-16 | 20   | Graham Nerve Retractors 16.5cm/6 1/2" |

### H

| Cat Code #  | P. # | Description                                                  |
|-------------|------|--------------------------------------------------------------|
| 31-11408-03 | 32   | Hajek(Hajek-Kofler) Laminectomy Rongeurs 5x3.5mm 14cm/5 1/2" |
| 31-11408-04 | 32   | Hajek(Hajek-Kofler) Laminectomy Rongeurs 5x3.5mm 14cm/5 1/2" |
| 31-11408-01 | 32   | Hajek(Hajek-Kofler) Laminectomy Rongeurs 5x4mm 14cm/5 1/2"   |
| 31-11408-02 | 32   | Hajek(Hajek-Kofler) Laminectomy Rongeurs 5x4mm 14cm/5 1/2"   |
| 31-11412-16 | 32   | Hajek-Kofler Laminectomy Rongeurs 16cm/6 1/2"                |
| 32-11550-02 | 55   | Hardy Curettes 4mm 26cm/10 1/4"                              |
| 32-11550-01 | 55   | Hardy Curettes 6mm 26cm/10 1/4"                              |
| 32-11508-08 | 47   | Hardy Dissectors Angled Up 2mm 24cm/9 1/2"                   |
| 32-11508-12 | 47   | Hardy Dissectors Angled Up 4mm 24cm/9 1/2"                   |
| 32-11508-09 | 47   | Hardy Dissectors Curved Down 2mm 24cm/9 1/2"                 |
| 32-11508-13 | 47   | Hardy Dissectors Curved Down 4mm 24cm/9 1/2"                 |
| 32-11508-11 | 47   | Hardy Dissectors Curved Left 2mm 24cm/9 1/2"                 |
| 32-11508-10 | 47   | Hardy Dissectors Curved Right 2mm 24cm/9 1/2"                |
| 32-11508-07 | 47   | Hardy Dissectors Implant Fork 24cm/9 1/2"                    |
| 32-11508-01 | 47   | Hardy Sickle Dissectors Angled Up 24cm/9 1/2"                |
| 32-11508-02 | 47   | Hardy Sickle Dissectors Curved Down 24cm/9 1/2"              |
| 32-11508-04 | 47   | Hardy Sickle Dissectors Curved Left 24cm/9 1/2"              |
| 32-11508-03 | 47   | Hardy Sickle Dissectors Curved Right 24cm/9 1/2"             |
| 32-11508-05 | 47   | Hardy-Fahlbusch Sickle Dissectors 24cm/9 1/2"                |
| 32-11508-06 | 47   | Hardy-Fahlbusch Sickle Dissectors 24cm/9 1/2"                |
| 31-11144-08 | 15   | Heifetz Malleable Spatulas 7x 8mm 20cm/8"                    |
| 31-11148-08 | 15   | Heifetz Malleable Spatulas 8mm 15.5cm/6"                     |
| 31-11144-11 | 15   | Heifetz Malleable Spatulas 10x11mm 20cm/8"                   |
| 31-11148-11 | 15   | Heifetz Malleable Spatulas 11mm 15.5cm/6"                    |
| 31-11144-14 | 15   | Heifetz Malleable Spatulas 13x14mm 20cm/8"                   |
| 31-11148-13 | 15   | Heifetz Malleable Spatulas 14mm 15.5cm/6"                    |
| 31-11144-17 | 15   | Heifetz Malleable Spatulas 16x17mm 20cm/8"                   |
| 31-11148-17 | 15   | Heifetz Malleable Spatulas 17mm 15.5cm/6"                    |
| 31-11144-20 | 15   | Heifetz Malleable Spatulas 19x20mm 20cm/8"                   |
| 31-11144-22 | 15   | Heifetz Malleable Spatulas 22x22mm 20cm/8"                   |
| 31-11060-01 | 11   | Henly Muscle Retractors 14.5cm/5 3/4" Retractor Only         |
| 31-11064-01 | 11   | Henly Muscle Retractors 14.5cm/5 3/4" Retractor Only         |



## NEURO AND LAMINECTOMY

## H

| Cat Code #  | P. # | Description                                        |
|-------------|------|----------------------------------------------------|
| 31-11062-01 | 11   | Henly Muscle Retractors 17cm/6 3/4" Retractor Only |
| 31-11066-01 | 11   | Henly Muscle Retractors 17cm/6 3/4" Retractor Only |
| 31-11060-00 | 11   | Henly Muscle Retractors Complete                   |
| 31-11062-00 | 11   | Henly Muscle Retractors Complete                   |
| 31-11064-00 | 11   | Henly Muscle Retractors Complete                   |
| 31-11066-00 | 11   | Henly Muscle Retractors Complete                   |
| 31-11044-00 | 9    | Hey Lamina Spreaders 23cm/9" Complete              |
| 31-11046-00 | 9    | Hey Lamina Spreaders 23cm/9" Complete              |
| 31-11080-15 | 12   | Hoan Dura Dissectors 15cm/6"                       |
| 31-11082-15 | 12   | Hoan Dura Dissectors 15cm/6"                       |
| 31-11200-22 | 19   | Hoen Nerve Retractors 22cm/8 3/4"                  |
| 31-11177-07 | 17   | Holsher Nerve Root Retractors 7mm 24cm/9 1/2"      |
| 31-11177-09 | 17   | Holsher Nerve Root Retractors 9mm 24cm/9 1/2"      |
| 31-11128-20 | 14   | Horsely Dura Dissectors 20cm/8"                    |
| 32-11558-01 | 56   | Hosobuchi Spatulas 26cm/10 3/4"                    |

## I

| Cat Code #  | P. # | Description                        |
|-------------|------|------------------------------------|
| 31-11030-16 | 8    | Inge Lamina Spreaders 16cm/6 1/4"  |
| 31-11032-27 | 8    | Inge Lamina Spreaders 27cm/10 3/4" |

## J

| Cat Code #  | P. # | Description                                 |
|-------------|------|---------------------------------------------|
| 32-11432-00 | 36   | Jacobson Knives 18.5cm/7 1/4"               |
| 32-11464-01 | 39   | Jacobson Probe 18.5cm/7 1/4"                |
| 32-11474-02 | 41   | Jannetta Dissector, Large 19cm/7 1/2"       |
| 32-11474-01 | 41   | Jannetta Dissector, Small 19cm/7 1/2"       |
| 32-11474-09 | 41   | Jannetta Elevator, Angular 19cm/7 1/2"      |
| 32-11474-16 | 41   | Jannetta Fork Large 19cm/7 1/2"             |
| 32-11474-15 | 41   | Jannetta Fork Small 19cm/7 1/2"             |
| 32-11474-07 | 41   | Jannetta Hook, Angular 19cm/7 1/2"          |
| 32-11474-06 | 41   | Jannetta Hook, Large 19cm/7 1/2"            |
| 32-11474-05 | 41   | Jannetta Hook, Medium 19cm/7 1/2"           |
| 32-11474-08 | 41   | Jannetta Hook, Medium 19cm/7 1/2"           |
| 32-11474-04 | 41   | Jannetta Hook, Small 19cm/7 1/2"            |
| 32-11474-11 | 41   | Jannetta Knife Hollow Large 19cm/7 1/2"     |
| 32-11474-10 | 41   | Jannetta Knife Hollow Small 19cm/7 1/2"     |
| 32-11474-13 | 41   | Jannetta Ligature Carrier Left 19cm/7 1/2"  |
| 32-11474-14 | 41   | Jannetta Ligature Carrier Right 19cm/7 1/2" |
| 32-11474-12 | 41   | Jannetta Probe Ball-Tipped 19cm/7 1/2"      |
| 32-11474-03 | 41   | Jannetta Raspatory 19cm/7 1/2"              |

## K

| Cat Code #  | P. # | Description               |
|-------------|------|---------------------------|
| 32-11432-01 | 36   | Koos Knives 18.5cm/7 1/4" |
| 32-11432-02 | 36   | Koos Knives 18.5cm/7 1/4" |

## K

| Cat Code #  | P. # | Description                                 |
|-------------|------|---------------------------------------------|
| 32-11432-03 | 36   | Koos Knives 18.5cm/7 1/4"                   |
| 32-11432-04 | 36   | Koos Knives 18.5cm/7 1/4"                   |
| 32-11434-01 | 36   | Koos Knives 18.5cm/7 1/4"                   |
| 32-11434-02 | 36   | Koos Knives 18.5cm/7 1/4"                   |
| 32-11448-01 | 38   | Krayenbuhl Nerve Vessel Hooks 18.5cm/7 1/4" |
| 32-11448-02 | 38   | Krayenbuhl Nerve Vessel Hooks 18.5cm/7 1/4" |
| 32-11448-03 | 38   | Krayenbuhl Nerve Vessel Hooks 18.5cm/7 1/4" |
| 32-11448-04 | 38   | Krayenbuhl Nerve Vessel Hooks 18.5cm/7 1/4" |

## L

| Cat Code #  | P. # | Description                                     |
|-------------|------|-------------------------------------------------|
| 31-11050-01 | 10   | Lamina Spreaders 50x10mm 17cm/6 3/4" Left-Type  |
| 31-11052-01 | 10   | Lamina Spreaders 50x10mm 17cm/6 3/4" Right-Type |
| 31-11054-01 | 10   | Lamina Spreaders 50x20mm 17cm/6 3/4" Left-Type  |
| 31-11056-01 | 10   | Lamina Spreaders 50x20mm 17cm/6 3/4" Right-Type |
| 31-11050-02 | 10   | Lamina Spreaders 60x10mm 17cm/6 3/4" Left-Type  |
| 31-11052-02 | 10   | Lamina Spreaders 60x10mm 17cm/6 3/4" Right-Type |
| 31-11054-02 | 10   | Lamina Spreaders 60x20mm 17cm/6 3/4" Left-Type  |
| 31-11056-02 | 10   | Lamina Spreaders 60x20mm 17cm/6 3/4" Right-Type |
| 31-11050-03 | 10   | Lamina Spreaders 70x10mm 17cm/6 3/4" Left-Type  |
| 31-11052-03 | 10   | Lamina Spreaders 70x10mm 17cm/6 3/4" Right-Type |
| 31-11054-03 | 10   | Lamina Spreaders 70x20mm 17cm/6 3/4" Left-Type  |
| 31-11056-03 | 10   | Lamina Spreaders 70x20mm 17cm/6 3/4" Right-Type |
| 31-11358-01 | 28   | Laminectomy Rongeurs 2x12mm 14cm/5 1/2"         |
| 31-11358-02 | 28   | Laminectomy Rongeurs 2x12mm 14cm/5 1/2"         |
| 31-11358-03 | 28   | Laminectomy Rongeurs 2x12mm 14cm/5 1/2"         |
| 31-11360-01 | 28   | Laminectomy Rongeurs 2x12mm 16cm/6 1/4"         |
| 31-11360-02 | 28   | Laminectomy Rongeurs 2x12mm 16cm/6 1/4"         |
| 31-11360-03 | 28   | Laminectomy Rongeurs 2x12mm 16cm/6 1/4"         |
| 31-11362-01 | 28   | Laminectomy Rongeurs 3x12mm 14cm/5 1/2"         |
| 31-11362-02 | 28   | Laminectomy Rongeurs 3x12mm 14cm/5 1/2"         |
| 31-11362-03 | 28   | Laminectomy Rongeurs 3x12mm 14cm/5 1/2"         |
| 31-11364-01 | 28   | Laminectomy Rongeurs 3x12mm 16cm/6 1/4"         |
| 31-11364-02 | 28   | Laminectomy Rongeurs 3x12mm 16cm/6 1/4"         |
| 31-11364-03 | 28   | Laminectomy Rongeurs 3x12mm 16cm/6 1/4"         |
| 31-11366-01 | 28   | Laminectomy Rongeurs 4x14mm 14cm/5 1/2"         |
| 31-11366-02 | 28   | Laminectomy Rongeurs 4x14mm 14cm/5 1/2"         |
| 31-11366-03 | 28   | Laminectomy Rongeurs 4x14mm 14cm/5 1/2"         |
| 31-11368-01 | 28   | Laminectomy Rongeurs 4x14mm 16cm/6 1/4"         |
| 31-11368-02 | 28   | Laminectomy Rongeurs 4x14mm 16cm/6 1/4"         |
| 31-11368-03 | 28   | Laminectomy Rongeurs 4x14mm 16cm/6 1/4"         |
| 31-11370-01 | 28   | Laminectomy Rongeurs 5x14mm 14cm/5 1/2"         |
| 31-11370-02 | 28   | Laminectomy Rongeurs 5x14mm 14cm/5 1/2"         |
| 31-11370-03 | 28   | Laminectomy Rongeurs 5x14mm 14cm/5 1/2"         |
| 31-11372-01 | 28   | Laminectomy Rongeurs 5x14mm 16cm/6 1/4"         |
| 31-11372-02 | 28   | Laminectomy Rongeurs 5x14mm 16cm/6 1/4"         |



## NEURO AND LAMINECTOMY

### L

| Cat Code #  | P. # | Description                                             |
|-------------|------|---------------------------------------------------------|
| 31-11372-03 | 28   | Laminectomy Rongeurs 5x14mm 16cm/6 1/4"                 |
| 31-11374-01 | 28   | Laminectomy Rongeurs 6x16mm 14cm/5 1/2"                 |
| 31-11374-02 | 28   | Laminectomy Rongeurs 6x16mm 14cm/5 1/2"                 |
| 31-11374-03 | 28   | Laminectomy Rongeurs 6x16mm 14cm/5 1/2"                 |
| 31-11376-01 | 28   | Laminectomy Rongeurs 6x16mm 16cm/6 1/4"                 |
| 31-11376-02 | 28   | Laminectomy Rongeurs 6x16mm 16cm/6 1/4"                 |
| 31-11376-03 | 28   | Laminectomy Rongeurs 6x16mm 16cm/6 1/4"                 |
| 32-11558-03 | 56   | Landolt Blunt Hook Malleable 26cm/10 3/4"               |
| 32-11558-02 | 56   | Landolt Curettes Malleable 26cm/10 3/4"                 |
| 32-11558-04 | 56   | Landolt Curettes Malleable 26cm/10 3/4"                 |
| 32-11558-05 | 56   | Landolt Curettes Malleable 26cm/10 3/4"                 |
| 32-11558-06 | 56   | Landolt Curettes Malleable 26cm/10 3/4"                 |
| 31-11392-90 | 30   | Landolt Laminectomy Rongeurs 9mm 21cm/8 1/4"            |
| 32-11562-02 | 57   | Landolt-Reulen Blunt Hook Rigid 1.7mm 26cm/10 3/4"      |
| 32-11562-04 | 57   | Landolt-Reulen Curettes Rigid 2.5mm 26cm/10 3/4"        |
| 32-11562-01 | 57   | Landolt-Reulen Dissectors Rigid 2mm 26cm/10 3/4"        |
| 32-11562-06 | 57   | Landolt-Reulen Respiratory Rigid 2.2x3.2mm 26cm/10 3/4" |
| 32-11502-01 | 46   | Ligature Needles 22cm/8 3/4"                            |
| 32-11502-02 | 46   | Ligature Needles 22cm/8 3/4"                            |
| 32-11504-01 | 46   | Ligature Needles 24cm/9 1/2"                            |
| 32-11504-04 | 46   | Ligature Needles 24cm/9 1/2"                            |
| 31-11164-03 | 16   | Love Nerve Root Retractors                              |
| 31-11174-03 | 17   | Love Nerve Root Retractors 100mm 21cm/8 1/4"            |
| 31-11174-05 | 17   | Love Nerve Root Retractors 100mm 21cm/8 1/4"            |
| 31-11174-07 | 17   | Love Nerve Root Retractors 100mm 21cm/8 1/4"            |
| 31-11164-02 | 16   | Love Nerve Root Retractors 19cm/7 1/2"                  |
| 31-11168-21 | 16   | Love Nerve Root Retractors 21cm/8 1/4"                  |
| 31-11172-03 | 17   | Love Nerve Root Retractors 70mm 21cm/8 1/4"             |
| 31-11172-05 | 17   | Love Nerve Root Retractors 70mm 21cm/8 1/4"             |
| 31-11172-07 | 17   | Love Nerve Root Retractors 70mm 21cm/8 1/4"             |
| 31-11086-16 | 12   | Love-Adson Dura Dissectors 16cm/6 1/2"                  |
| 31-11316-01 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11316-02 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11316-03 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11336-01 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11336-02 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11336-03 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 5"/13cm       |
| 31-11318-01 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm       |

### L

| Cat Code #  | P. # | Description                                            |
|-------------|------|--------------------------------------------------------|
| 31-11318-02 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm      |
| 31-11318-03 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm      |
| 31-11338-01 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm      |
| 31-11338-02 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm      |
| 31-11338-03 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 6"/15cm      |
| 31-11320-01 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11320-02 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11320-03 | 25   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11340-01 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11340-02 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11340-03 | 26   | Love-Grunwald Laminectomy Rongeurs 3x10cm 7"/18cm      |
| 31-11286-02 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7" |
| 31-11288-02 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7" |
| 31-11290-02 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7" |
| 31-11292-02 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 2mm 18cm/7" |
| 31-11278-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6" |
| 31-11280-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 15cm/6" |
| 31-11286-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7" |
| 31-11288-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7" |
| 31-11290-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7" |
| 31-11292-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 18cm/7" |
| 31-11282-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8" |
| 31-11284-03 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 3mm 20cm/8" |
| 31-11278-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 15cm/6" |



## NEURO AND LAMINECTOMY

## L

| Cat Code #  | P. # | Description                                            |
|-------------|------|--------------------------------------------------------|
| 31-11280-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 15cm/6" |
| 31-11286-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11288-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11290-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11292-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 18cm/7" |
| 31-11282-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 20cm/8" |
| 31-11284-04 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 4mm 20cm/8" |
| 31-11278-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11280-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 15cm/6" |
| 31-11286-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11288-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11290-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11292-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 18cm/7" |
| 31-11282-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11284-05 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 5mm 20cm/8" |
| 31-11286-06 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 6mm 18cm/7" |
| 31-11288-06 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 6mm 18cm/7" |
| 31-11290-06 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 6mm 18cm/7" |
| 31-11292-06 | 23   | Love-Kerrison Intervertebral Disc Rongeurs 6mm 18cm/7" |

## M

| Cat Code #  | P. # | Description                                       |
|-------------|------|---------------------------------------------------|
| 31-11156-12 | 16   | Malleable Spatulas 12mm 20cm/8"                   |
| 31-11160-14 | 16   | Malleable Spatulas 14mm 20cm/8"                   |
| 31-11156-17 | 16   | Malleable Spatulas 17mm 20cm/8"                   |
| 31-11160-17 | 16   | Malleable Spatulas 17mm 20cm/8"                   |
| 31-11160-20 | 16   | Malleable Spatulas 20mm 20cm/8"                   |
| 31-10636-33 | 1    | Martel Conductors 33cm/13"                        |
| 31-10968-15 | 3    | McKenzie Applying and Removing Forceps BJ 15cm/6" |

## M

| Cat Code #  | P. # | Description                                            |
|-------------|------|--------------------------------------------------------|
| 31-10968-19 | 3    | McKenzie Applying and Removing Forceps BJ 19cm/7 1/2"  |
| 32-11478-01 | 42   | Micro Dissectors 2mm 19cm/7 1/2"                       |
| 32-11416-03 | 33   | Micro Forceps Angled Up 4mm 8cm/3" Shaft               |
| 32-11424-03 | 34   | Micro Forceps Angled Up 4mm 16cm/6 1/4"                |
| 32-11426-01 | 34   | Micro Forceps Straight 1.0mm 16cm/6 1/4" Oval Cup Jaws |
| 32-11426-03 | 34   | Micro Forceps Straight 1.0mm 16cm/6 1/4" Oval Cup Jaws |
| 32-11426-02 | 34   | Micro Forceps Straight 2.5mm 16cm/6 1/4" Oval Cup Jaws |
| 32-11424-01 | 34   | Micro Forceps Straight 4mm 16cm/6 1/4"                 |
| 32-11416-01 | 33   | Micro Forceps Straight 4mm 8cm/3" Shaft                |
| 32-11418-01 | 33   | Micro Forceps Straight 4mm 8cm/3" Shaft Oval Cup Jaws  |
| 32-11416-02 | 33   | Micro Forceps Straight 6mm 8cm/3" Shaft                |
| 32-11418-02 | 33   | Micro Forceps Straight 6mm 8cm/3" Shaft Oval Cup Jaws  |
| 32-11478-04 | 42   | Micro Ligature Needle 3mm 19cm/7 1/2"                  |
| 32-11478-05 | 42   | Micro Ligature Needle 5mm 19cm/7 1/2"                  |
| 32-11420-02 | 33   | Micro Scissors Angled Up 4mm 8cm/3" Shaft              |
| 32-11428-04 | 34   | Micro Scissors Curved Left                             |
| 32-11420-04 | 33   | Micro Scissors Curved Left 4mm 8cm/3" Shaft            |
| 32-11428-03 | 34   | Micro Scissors Curved Right                            |
| 32-11420-03 | 33   | Micro Scissors Curved Right 4mm 8cm/3" Shaft           |
| 32-11420-01 | 33   | Micro Scissors Straight 4mm 8cm/3" Shaft               |
| 31-11116-21 | 14   | Milligan Elevators 21cm/8 1/4"                         |

## N

| Cat Code #  | P. # | Description                               |
|-------------|------|-------------------------------------------|
| 32-11488-14 | 44   | Needles Angled to Left 3x5mm 24cm/9 1/2"  |
| 32-11488-13 | 44   | Needles Angled to Right 3x5mm 24cm/9 1/2" |
| 32-11488-12 | 44   | Needles Angled Up 3x5mm 24cm/9 1/2"       |
| 32-11538-08 | 51   | Nerve Hooks 3mm 24cm/9 1/2"               |
| 32-11478-02 | 42   | Nerve Hooks 5mm 19cm/7 1/2"               |
| 32-11538-09 | 51   | Nerve Hooks 5mm 24cm/9 1/2"               |
| 32-11478-03 | 42   | Nerve Hooks 8mm 19cm/7 1/2"               |
| 32-11538-10 | 51   | Nerve Hooks 8mm 24cm/9 1/2"               |
| 32-11500-01 | 46   | Nerve Hooks Angled Up 5mm 24cm/9 1/2"     |
| 32-11500-02 | 46   | Nerve Hooks Angled up 8mm 24cm/9 1/2"     |
| 31-11179-13 | 17   | Nerve Root Retractors 13mm                |
| 31-11164-01 | 16   | Nerve Root Retractors 19cm/7 1/2"         |
| 31-11179-08 | 17   | Nerve Root Retractors 8mm                 |
| 32-11444-01 | 38   | Nerve Vessel Hooks 18.5cm/7 1/4"          |
| 32-11444-02 | 38   | Nerve Vessel Hooks 18.5cm/7 1/4"          |
| 32-11552-01 | 55   | Nicola Curettes 6.5mm 21.5mm/8 1/4"       |
| 32-11552-02 | 55   | Nicola Curettes 6.5mm 21.5mm/8 1/4"       |



## NEURO AND LAMINECTOMY

### N

| Cat Code #  | P. # | Description                          |
|-------------|------|--------------------------------------|
| 32-11552-03 | 55   | Nicola Curettes 6.5mm 21.5mm/8 1/4"  |
| 32-11428-01 | 34   | Nicola Micro Scissors Straight       |
| 32-11556-21 | 56   | Nicola Raspatories 2mm 21.5cm/8 1/4" |

### O

| Cat Code #  | P. # | Description                                                          |
|-------------|------|----------------------------------------------------------------------|
| 31-11390-65 | 30   | Oldberg Laminectomy Rongeurs 6.5mm 18cm/7"                           |
| 31-11182-01 | 18   | Oldberg Nerve Root Retractors 21cm/8 1/4"                            |
| 31-11182-02 | 18   | Oldberg Nerve Root Retractors 21cm/8 1/4"                            |
| 31-11182-03 | 18   | Oldberg Nerve Root Retractors 21cm/8 1/4"                            |
| 31-11182-04 | 18   | Oldberg Nerve Root Retractors 21cm/8 1/4"                            |
| 31-11142-01 | 15   | Olivecrona Brain Spatulas 7x 9mm 18cm/7"<br>Convex                   |
| 31-11140-01 | 15   | Olivecrona Brain Spatulas 7x 9mm 18cm/7"<br>Concave                  |
| 31-11142-02 | 15   | Olivecrona Brain Spatulas 11x13mm 18cm/7"<br>Convex                  |
| 31-11140-02 | 15   | Olivecrona Brain Spatulas 11x13mm 18cm/7"<br>Concave                 |
| 31-11142-03 | 15   | Olivecrona Brain Spatulas 15x18mm 18cm/7"<br>Convex                  |
| 31-11140-03 | 15   | Olivecrona Brain Spatulas 15x18mm 18cm/7"<br>Concave                 |
| 31-11142-04 | 15   | Olivecrona Brain Spatulas 18x22mm 18cm/7"<br>Convex                  |
| 31-11140-04 | 15   | Olivecrona Brain Spatulas 18x22mm 18cm/7"<br>Concave                 |
| 31-11120-18 | 14   | Olivecrona Elevators 18cm/7"                                         |
| 31-11124-19 | 14   | Olivecrona Elevators 19.5cm/7 3/4"                                   |
| 31-11120-24 | 14   | Olivecrona Elevators 24cm/9 1/2"                                     |
| 31-11124-24 | 14   | Olivecrona Elevators 24cm/9 1/2"                                     |
| 31-11236-20 | 20   | Olivecrona Nerve Retractors Knives 20.5cm/8"                         |
| 31-11234-23 | 20   | Olivecrona Nerve Retractors Knives 23cm/9"                           |
| 31-10972-14 | 3    | Olivecrona-Tonnis Applying and Removing Forceps<br>14cm?5 1/2" Shaft |

### P

| Cat Code #  | P. # | Description                              |
|-------------|------|------------------------------------------|
| 31-11090-01 | 12   | Penfield Elevators 17.5cm/7" Fig # 1     |
| 31-11090-02 | 12   | Penfield Elevators 19.5cm/7 3/4" Fig # 2 |
| 31-11090-03 | 12   | Penfield Elevators 19.5cm/7 3/4" Fig # 3 |
| 31-11090-04 | 12   | Penfield Elevators 21.5cm/8 1/2" Fig # 4 |
| 31-11090-05 | 12   | Penfield Elevators 29cm/11 1/2" Fig # 5  |

### R

| Cat Code #  | P. # | Description                                        |
|-------------|------|----------------------------------------------------|
| 31-10964-00 | 3    | Raney Applying and Removing Forceps BJ 16cm/6 1/4" |

### R

| Cat Code #  | P. # | Description                                       |
|-------------|------|---------------------------------------------------|
| 32-11488-06 | 44   | Raspatories Angled Up 1.0x1.0mm 24cm/9 1/2"       |
| 32-11488-07 | 44   | Raspatories Angled Up 2.5x5mm 24cm/9 1/2"         |
| 32-11512-07 | 48   | Raspatories Curved Down 2mm 24cm/9 1/2"           |
| 32-11512-09 | 48   | Raspatories Curved Down 4mm 24cm/9 1/2"           |
| 32-11512-06 | 48   | Raspatories Curved Up 2mm 24cm/9 1/2"             |
| 32-11512-08 | 48   | Raspatories Curved Up 4mm 24cm/9 1/2"             |
| 32-11538-01 | 51   | Raspatories Sharp 24cm/9 1/2"                     |
| 32-11538-02 | 51   | Raspatories Sharp 24cm/9 1/2"                     |
| 32-11538-03 | 51   | Raspatories Sharp 24cm/9 1/2"                     |
| 32-11538-04 | 51   | Raspatories Sharp 24cm/9 1/2"                     |
| 32-11538-05 | 51   | Raspatories Sharp 24cm/9 1/2"                     |
| 32-11546-01 | 54   | Ray Curettes 4mm 19cm/7 1/2"                      |
| 32-11546-02 | 54   | Ray Curettes 4mm 19cm/7 1/2"                      |
| 31-11022-01 | 7    | Retracotrs Only                                   |
| 31-11026-01 | 7    | Retracotrs Only                                   |
| 31-11010-01 | 6    | Retractors Only                                   |
| 31-11014-01 | 6    | Retractors Only                                   |
| 31-11018-01 | 6    | Retractors Only                                   |
| 32-11470-01 | 40   | Rhoton Dissector Round 1mm 19cm/7 1/2"            |
| 32-11470-02 | 40   | Rhoton Dissector Round 2mm 19cm/7 1/2"            |
| 32-11470-03 | 40   | Rhoton Dissector Round 3mm 19cm/7 1/2"            |
| 32-11470-05 | 40   | Rhoton Dissector Spatula Shaped 1.5mm 19cm/7 1/2" |
| 32-11470-04 | 40   | Rhoton Dissector Spatula Shaped 1mm 19cm/7 1/2"   |
| 32-11470-06 | 40   | Rhoton Dissector Spatula Shaped 2.0mm 19cm/7 1/2" |
| 32-11470-07 | 40   | Rhoton Elevator 1.2mm 19cm/7 1/2"                 |
| 32-11470-08 | 40   | Rhoton Elevator 2.8mm 19cm/7 1/2"                 |
| 32-11470-10 | 40   | Rhoton Hook Blunt 2mm 19cm/7 1/2"                 |
| 32-11470-11 | 40   | Rhoton Hook Semi-Sharp 2mm 19cm/7 1/2"            |
| 32-11470-12 | 40   | Rhoton Hook Semi-Sharp 3mm 19cm/7 1/2"            |
| 32-11470-09 | 40   | Rhoton Needle Semi-Sharp 19cm/7 1/2"              |
| 32-11470-14 | 40   | Rhoton Probe Angled 1.0x2.0mm 19cm/7 1/2"         |
| 32-11470-15 | 40   | Rhoton Probe Angled 1.0x2.0mm 19cm/7 1/2"         |
| 32-11470-13 | 40   | Rhoton Probe Angled 19cm/7 1/2"                   |

### S

| Cat Code #  | P. # | Description                             |
|-------------|------|-----------------------------------------|
| 31-11094-21 | 13   | Sachs Dura Dissectors 21cm/8 1/4"       |
| 31-11132-21 | 14   | Sachs Dura Dissectors 21cm/8 1/4"       |
| 31-11098-22 | 13   | Sachs Dura Dissectors Sh/Bl 22cm/8 1/4" |
| 31-11112-21 | 13   | Sachs Elevators 21cm/8 1/4"             |
| 32-11482-01 | 43   | Samil Tumor Knives 1.0x5.0mm 20cm/8"    |
| 32-11484-01 | 43   | Samil Tumor Knives 1.0x5.0mm 23cm/9"    |
| 32-11482-02 | 43   | Samil Tumor Knives 1.5x5.0mm 20cm/8"    |
| 32-11484-02 | 43   | Samil Tumor Knives 1.5x5.0mm 23cm/9"    |
| 32-11482-03 | 43   | Samil Tumor Knives 2.0x5.5mm 20cm/8"    |
| 32-11484-03 | 43   | Samil Tumor Knives 2.0x5.5mm 23cm/9"    |



## NEURO AND LAMINECTOMY

## S

| Cat Code #  | P. # | Description                                            |
|-------------|------|--------------------------------------------------------|
| 32-11482-04 | 43   | Samil Tumor Knives 2.5x6.0mm 20cm/8"                   |
| 32-11484-04 | 43   | Samil Tumor Knives 2.5x6.0mm 23cm/9"                   |
| 32-11482-05 | 43   | Samil Tumor Knives 3.0x7.0mm 20cm/8"                   |
| 32-11484-05 | 43   | Samil Tumor Knives 3.0x7.0mm 23cm/9"                   |
| 32-11482-06 | 43   | Samil Tumor Knives 3.5x7.0mm 20cm/8"                   |
| 32-11484-06 | 43   | Samil Tumor Knives 3.5x7.0mm 23cm/9"                   |
| 32-11482-07 | 43   | Samil Tumor Knives 4.0x7.5mm 20cm/8"                   |
| 32-11484-07 | 43   | Samil Tumor Knives 4.0x7.5mm 23cm/9"                   |
| 32-11482-08 | 43   | Samil Tumor Knives 5.0x8.0mm 20cm/8"                   |
| 32-11484-08 | 43   | Samil Tumor Knives 5.0x8.0mm 23cm/9"                   |
| 31-11382-16 | 29   | Schlesinger Laminectomy Rongeurs 16cm/6 1/4"           |
| 31-11378-02 | 29   | Schlesinger Laminectomy Rongeurs 2x10mm 13cm/5"        |
| 31-11378-03 | 29   | Schlesinger Laminectomy Rongeurs 3x10mm 13cm/5"        |
| 31-11378-04 | 29   | Schlesinger Laminectomy Rongeurs 4x10mm 13cm/5"        |
| 32-11538-06 | 51   | Scoops 2.5mm 24cm/9 1/2"                               |
| 32-11538-07 | 51   | Scoops 3mm 24cm/9 1/2"                                 |
| 31-11212-30 | 19   | Scoville Nerve Retractors 30cm/12"                     |
| 31-11214-30 | 19   | Scoville Nerve Retractors 30cm/12"                     |
| 31-11176-07 | 17   | Scoville Nerve Root Retractors 7mm 23cm/9"             |
| 31-11176-09 | 17   | Scoville Nerve Root Retractors 9mm 23cm/9"             |
| 32-11500-03 | 46   | Sickle Hooks Angled Up 3mm 24cm/9 1/2"                 |
| 32-11500-04 | 46   | Sickle Hooks Angled Up 4mm 24cm/9 1/2"                 |
| 32-11500-05 | 46   | Sickle Hooks Angled Up 5mm 24cm/9 1/2"                 |
| 32-11492-05 | 45   | Sickle Hooks Angled Up Ball Pointed 3mm 24cm/9 1/2"    |
| 32-11492-02 | 45   | Sickle Hooks Angled Up Blunt 2.5mm 24cm/9 1/2"         |
| 32-11492-01 | 45   | Sickle Hooks Angled Up Blunt 2mm 24cm/9 1/2"           |
| 32-11492-04 | 45   | Sickle Hooks Angled Up Blunt 3mm 24cm/9 1/2"           |
| 32-11492-06 | 45   | Sickle Hooks Angled Up Blunt 3mm 24cm/9 1/2"           |
| 32-11492-03 | 45   | Sickle Hooks Angled Up Semi-Sharp 2mm 24cm/9 1/2"      |
| 32-11496-05 | 45   | Sickle Hooks Curved Left Ball Pointed 3mm 24cm/9 1/2"  |
| 32-11496-02 | 45   | Sickle Hooks Curved Left Blunt 2.5mm 24cm/9 1/2"       |
| 32-11496-01 | 45   | Sickle Hooks Curved Left Blunt 2mm 24cm/9 1/2"         |
| 32-11496-04 | 45   | Sickle Hooks Curved Left Blunt 3mm 24cm/9 1/2"         |
| 32-11496-06 | 45   | Sickle Hooks Curved Left Blunt 3mm 24cm/9 1/2"         |
| 32-11496-03 | 45   | Sickle Hooks Curved Left Semi-Sharp 2mm 24cm/9 1/2"    |
| 32-11494-05 | 45   | Sickle Hooks Curved Right Ball Pointed 3mm 24cm/9 1/2" |
| 32-11494-01 | 45   | Sickle Hooks Curved Right Blunt 2mm 24cm/9 1/2"        |
| 32-11494-04 | 45   | Sickle Hooks Curved Right Blunt 3mm 24cm/9 1/2"        |
| 32-11494-06 | 45   | Sickle Hooks Curved Right Blunt 3mm 24cm/9 1/2"        |
| 32-11494-03 | 45   | Sickle Hooks Curved Right Semi-Sharp 2mm 24cm/9 1/2"   |

## S

| Cat Code #  | P. # | Description                                                 |
|-------------|------|-------------------------------------------------------------|
| 32-11494-02 | 45   | Sickle Hooks Curved Right) Blunt 2.5mm 24cm/9 1/2"          |
| 32-11488-01 | 44   | Sickle Knives Angled Up 24cm/9 1/2"                         |
| 32-11488-02 | 44   | Sickle Knives Curved Down 24cm/9 1/2"                       |
| 32-11488-04 | 44   | Sickle Knives Curved Left 24cm/9 1/2"                       |
| 32-11488-03 | 44   | Sickle Knives Curved Right 24cm/9 1/2"                      |
| 32-11488-05 | 44   | Sickle Knives Curved Upwards 24cm/9 1/2"                    |
| 31-11208-29 | 19   | Smithwick Nerve Retractors 29cm/11 3/4"                     |
| 31-11188-17 | 18   | Smithwick Nerve Root Retractors 17cm/6 1/2"                 |
| 31-11188-21 | 18   | Smithwick Nerve Root Retractors 21cm/8 1/4"                 |
| 32-11512-02 | 48   | Spatula Dissectors Curved Down Flexible 8x100mm 24cm/9 1/2" |
| 32-11512-01 | 48   | Spatula Dissectors Curved Up Flexible 8x100mm 24cm/9 1/2"   |
| 32-11512-03 | 48   | Spatula Dissectors Straight 5x20mm 24cm/9 1/2"              |
| 31-11322-01 | 25   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11322-02 | 25   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11322-03 | 25   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11342-01 | 26   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11342-02 | 26   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11342-03 | 26   | Spurling Laminectomy Rongeurs 4x10cm 5"/13cm                |
| 31-11324-01 | 25   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11324-02 | 25   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11324-03 | 25   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11344-01 | 26   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11344-02 | 26   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11344-03 | 26   | Spurling Laminectomy Rongeurs 4x10cm 6"/15cm                |
| 31-11326-01 | 25   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 31-11326-02 | 25   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 31-11326-03 | 25   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 31-11346-01 | 26   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 31-11346-02 | 26   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 31-11346-03 | 26   | Spurling Laminectomy Rongeurs 4x10cm 7"/18cm                |
| 32-11464-03 | 39   | Suture Pushers 18.5cm/7 1/4"                                |

## T

| Cat Code #  | P. # | Description                                        |
|-------------|------|----------------------------------------------------|
| 31-11180-10 | 18   | Taylor Nerve Root Retractors 30x 100mm 17cm/6 3/4" |
| 31-11180-07 | 18   | Taylor Nerve Root Retractors 30x 70mm 17cm/6 3/4"  |
| 32-11456-10 | 39   | Tissue Packs 1.0mm 18.5cm/7 1/4"                   |
| 32-11456-18 | 39   | Tissue Packs 1.8mm 18.5cm/7 1/4"                   |
| 32-11454-11 | 39   | Tissue Packs 11cm/4 1/8"                           |
| 31-11074-25 | 12   | Toennis Dura Dissectors 25cm/10"                   |
| 31-11230-13 | 20   | Toennis Nerve Retractors 13cm/5"                   |
| 31-11222-15 | 20   | Toennis Nerve Retractors 15cm/6"                   |



## T

| Cat Code #  | P. # | Description                      |
|-------------|------|----------------------------------|
| 31-11230-18 | 20   | Toennis Nerve Retractors 18cm/7" |

## V

| Cat Code #  | P. # | Description                     |
|-------------|------|---------------------------------|
| 32-11460-05 | 39   | Vessel Dilators 0.5mm 12.5cm/5" |
| 32-11460-10 | 39   | Vessel Dilators 1.0mm 12.5cm/5" |
| 32-11460-15 | 39   | Vessel Dilators 1.5mm 12.5cm/5" |
| 32-11464-02 | 39   | Vessel Probe 18.5cm/7 1/4"      |

## W

| Cat Code #  | P. # | Description                               |
|-------------|------|-------------------------------------------|
| 31-11396-01 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11396-02 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11396-03 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11396-04 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11396-05 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11398-01 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11398-02 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11398-03 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11398-04 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11398-05 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11402-01 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11402-02 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11402-03 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11402-04 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11402-05 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11404-01 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11404-02 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11404-03 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11404-04 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11404-05 | 31   | Weil-Blakesley Laminectomy Rongeurs 120mm |
| 31-11102-25 | 13   | Woodsen Dura Dissectors 25cm/10"          |

## Y

| Cat Code #  | P. # | Description                                       |
|-------------|------|---------------------------------------------------|
| 32-11440-01 | 37   | Yasargil Dissectors 18.5cm/7 1/4"                 |
| 32-11440-02 | 37   | Yasargil Dissectors 18.5cm/7 1/4"                 |
| 32-11440-03 | 37   | Yasargil Dissectors 18.5cm/7 1/4"                 |
| 32-11440-04 | 37   | Yasargil Dissectors 18.5cm/7 1/4"                 |
| 32-11434-03 | 36   | Yasargil Knives 18.5cm/7 1/4"                     |
| 32-11434-04 | 36   | Yasargil Knives 18.5cm/7 1/4"                     |
| 31-11386-35 | 30   | Yasargil Laminectomy Rongeurs 3.5mm 19.5cm/7 3/4" |
| 32-11450-01 | 38   | Yasargil Ligature Guide 18.5cm/7 1/4"             |
| 32-11450-02 | 38   | Yasargil Ligature Guide 18.5cm/7 1/4"             |
| 32-11450-03 | 38   | Yasargil Ligature Guide 18.5cm/7 1/4"             |

## R

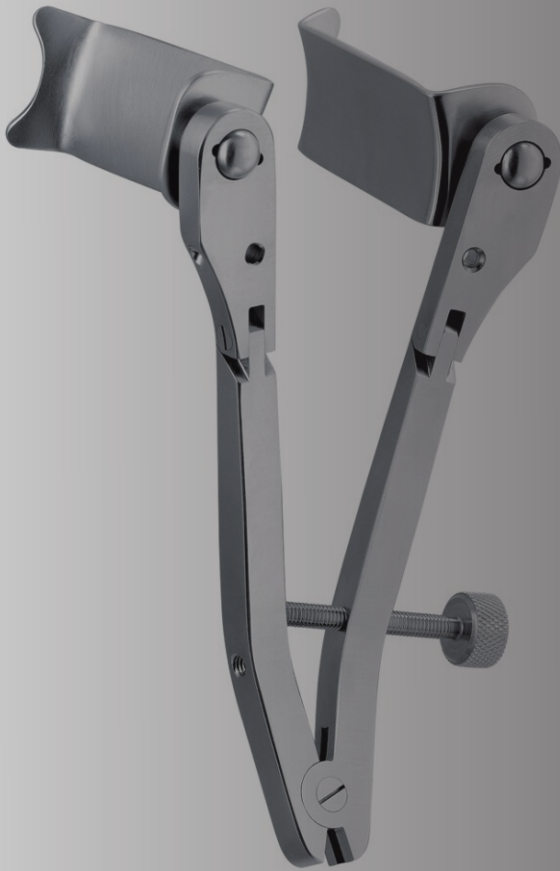
| Cat Code #  | P. # | Description                                            |
|-------------|------|--------------------------------------------------------|
| 32-11450-04 | 38   | Yasargil Ligature Guide 18.5cm/7 1/4"                  |
| 32-11438-01 | 37   | Yasargil Raspatories 18.5cm/7 1/4"                     |
| 32-11438-02 | 37   | Yasargil Raspatories 18.5cm/7 1/4"                     |
| 32-11438-03 | 37   | Yasargil Raspatories 18.5cm/7 1/4"                     |
| 32-11438-04 | 37   | Yasargil Raspatories 18.5cm/7 1/4"                     |
| 32-11438-05 | 37   | Yasargil Raspatories 18.5cm/7 1/4"                     |
| 32-11424-02 | 34   | Yasargil-Nicola Micro Forceps Straight 6mm 16cm/6 1/4" |

| Cat Code #  | P. # | Description                                                                                                                                                                            |
|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32-14220-01 | 58   | Ball and socket joint, articulated                                                                                                                                                     |
| 32-14220-02 | 58   | Holding rod for fixation                                                                                                                                                               |
| 32-14220-03 | 58   | Coupling head for 5 flexible arms max.                                                                                                                                                 |
| 32-14220-04 | 58   | Coupling head rotatable                                                                                                                                                                |
| 32-14222-02 | 58   | LEYLA retractor Set 2 (2 Arms) for fixation to OR table siderails consisting of: 32-14220-01, 32-14220-02, 32-14220-03, 32-14220-04, 2 x 32-14220-07, 2 x 32-14220-08, 2 x 32-14220-09 |

| Cat Code #  | P. # | Description                                                                                                                                     |
|-------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 32-14220-01 | 59   | Ball and socket joint, articulated                                                                                                              |
| 32-14220-02 | 59   | Holding rod for fixation                                                                                                                        |
| 32-14220-03 | 59   | Coupling head for 5 flexible arms max.                                                                                                          |
| 32-14221-01 | 59   | LEYLA retractor Set 1 (1 Arm) for fixation to OR table siderails consisting of: 32-14220-01, 32-14220-02, 32-14220-03, 32-14220-08, 32-14220-09 |

| Cat Code #  | P. # | Description                                                                                                                                               |
|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32-14221-00 | 60   | Brain retractor, self retaining, flexible, for flat spatula, with 1 flexible arm, complete, consisting of: 32-14220-05, 32-14220-08, 32-14220-09          |
| 32-14222-00 | 60   | Brain retractor, self retaining, flexible, for flat spatula, with 2 flexible arms, complete, consisting of: 32-14220-06, 2 x 32-14220-08, 2 x 32-14220-09 |

| Cat Code #  | P. # | Description                              |
|-------------|------|------------------------------------------|
| 32-14220-08 | 61   | Flexible arm only                        |
| 32-14220-05 | 61   | Fixation base for 1 arm at skull         |
| 32-14220-06 | 61   | Fixation base for 2 arms at skull        |
| 32-14220-07 | 61   | Fixation base for 1 arm at rigid arm     |
| 32-14220-12 | 61   | Ear specula holder only                  |
| 32-14220-09 | 61   | Holder for flat brain spatula            |
| 32-14220-10 | 61   | Holder for brain spatula with round stem |



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