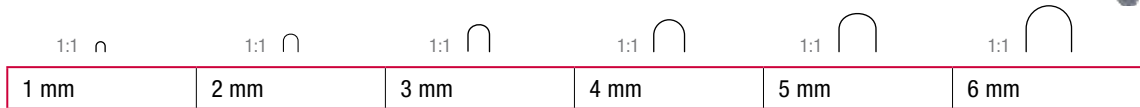
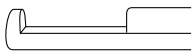


Laminektomiestanzen
Laminectomy punches

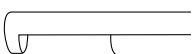
Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglianti per laminectomia



FERRIS-SMITH-KERRISON



| | x = 150mm – 6" | x = 180 mm – 7" | x = 200 mm – 8" | x = 230 mm – 9" |
|------|----------------|-----------------|-----------------|-----------------|
| 1 mm | 29-414-001 | 340-506-010 | 340-502-010 | 29-430-001 |
| 2 mm | 29-414-002 | 29-420-002 | 340-502-020 | 29-430-002 |
| 3 mm | 29-414-003 | 29-420-003 | 340-502-030 | 29-430-003 |
| 4 mm | 29-414-004 | 340-506-040 | 340-502-040 | 29-430-004 |
| 5 mm | 29-414-005 | 29-420-005 | 340-502-050 | 29-430-005 |
| 6 mm | 29-414-006 | 340-506-060 | 340-502-060 | 29-430-006 |



| | | | | |
|------|------------|-------------|-------------|------------|
| 1 mm | 29-416-001 | 340-507-010 | 340-500-010 | 29-432-001 |
| 2 mm | 29-416-002 | 29-422-002 | 340-500-020 | 29-432-002 |
| 3 mm | 29-416-003 | 29-422-003 | 340-500-030 | 29-432-003 |
| 4 mm | 29-416-004 | 340-507-040 | 340-500-040 | 29-432-004 |
| 5 mm | 29-416-005 | 29-422-005 | 340-500-050 | 29-432-005 |
| 6 mm | 29-416-006 | 340-507-060 | 340-500-060 | 29-432-006 |



Laminektomiestanzen

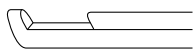
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia

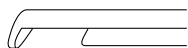


| | | | | | |
|------|------|------|------|------|------|
| 1 mm | 2 mm | 3 mm | 4 mm | 5 mm | 6 mm |
|------|------|------|------|------|------|

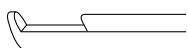
FERRIS-SMITH-KERRISON



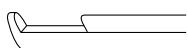
| | x = 150mm - 6" | x = 180 mm - 7" | x = 200 mm - 8" | x = 230 mm - 9" |
|------|----------------|-----------------|-----------------|-----------------|
| 1 mm | 29-418-001 | 340-508-010 | 340-503-010 | 29-434-001 |
| 2 mm | 29-418-002 | 29-424-002 | 340-503-020 | 29-434-002 |
| 3 mm | 29-418-003 | 29-424-003 | 340-503-030 | 29-434-003 |
| 4 mm | 29-418-004 | 340-508-040 | 340-503-040 | 29-434-004 |
| 5 mm | 29-418-005 | 29-424-005 | 340-503-050 | 29-434-005 |
| 6 mm | 29-418-006 | 340-508-060 | 340-503-060 | 29-434-006 |



| | | | | |
|------|--|-------------|-------------|------------|
| 1 mm | | 340-509-010 | 340-519-010 | |
| 2 mm | | 340-509-020 | 340-519-020 | 29-436-002 |
| 3 mm | | 340-509-030 | 340-519-030 | 29-436-003 |
| 4 mm | | 340-509-040 | 340-519-040 | 29-436-004 |
| 5 mm | | 340-509-050 | 340-519-050 | 29-436-005 |
| 6 mm | | 340-509-060 | 340-519-060 | 29-436-006 |



| | | | | |
|------|--|-------------|--|--|
| 1 mm | | 340-511-010 | | |
| 2 mm | | 340-511-020 | | |
| 3 mm | | 340-511-030 | | |



| | | | | |
|------|--|-------------|--|--|
| 1 mm | | 340-513-010 | | |
| 2 mm | | 340-513-020 | | |
| 3 mm | | 340-513-030 | | |



Dünne Fußplatte
 Thin footplate
 Plaque de coupe étroite
 Lámina de punción estrecha
 Battente sottile

Zerlegbare Laminektomiestanzen
Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie
Pinzas cortantes desmontables para laminectomía
Pinze taglienti smontabili per laminectomia

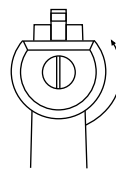
Einfaches Zerlegen und Montieren
easy dismantling and assembling
Démontage et montage facile
Sencillo desmontaje y montaje
Semplicità di smontaggio e assemblaggio

zerlegbar für leichtes Reinigen und bessere Hygiene
dismantable for easy cleaning and better hygiene
démontable pour nettoyage facile et meilleure hygiène
desmontable para una óptima limpieza y esterilización
smontare signifi ca avere maggiore pulizia ed igiene

Zerlegen
Dismantling
Démontage
Desmontaje
Smontaggio



geschlossene Position
closed position
position fermée
posición cerrada
posizione chiuso



Drehung zum Öffnen
turn to open
position ouverture
girar para abrir
giro per aprire

1. Öffnen der Verschlusscheibe durch Vierteldrehung.
opening of the locking nut by a quarter turn.
Tourner la disque arrière de 90° à gauche pour ouvrir.
Girar de 90° el disco de cierre.
Girare di 90° il disco di chiusura.

2. Den Schlitten (oberes Stanzteil) nach hinten abziehen.
Pulling backwards of the upper cutting part.
Tirer la partie supérieure vers l'arrière.
Tirar la parte superior del vástago hacia atrás.
Sfi lare la slitta (parte superiore) tirandola indietro.





Zerlegbare Laminektomiestanzen

Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie

Pinzas cortantes desmontables para laminectomía

Pinze taglienti smontabili per laminectomia

Zuordnung

relation
Classement
Asignación
Aggiungere

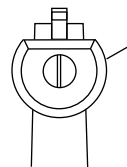
- des oberen Stanzteils zum Basis-Instrument erfolgt durch Nummern-Code.
- the upper cutting part with the basic instrument is related by numerical codes.
- des pièces démontées par un code numérique.
- de las partes desmontadas a través un código numérico.
- unire la slitta e lo strumento base con lo stesso codice di riferimento.

Montieren

Assembling
Montage
Montaje
Montaggio

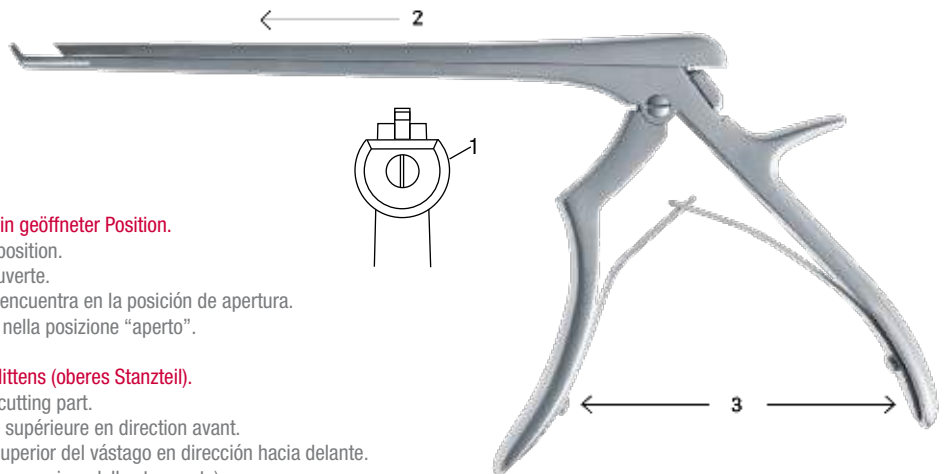
1. Verschlusscheibe ist in geöffneter Position.

Locking nut in open position.
Disque en position ouverte.
El disco de cierre se encuentra en la posición de apertura.
Il disco di chiusura è nella posizione "aperto".



2. Aufschieben des Schlittens (oberes Stanzteil).

Positioning of upper cutting part.
Faire glisser la partie supérieure en direction avant.
Posecionar la parte superior del vástago en dirección hacia delante.
Inserire la slitta (parte superiore dello strumento).

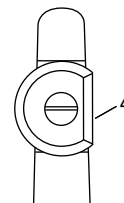


3. Zangenmaul schliessen durch Zusammendrücken der beiden Griffenden.

closing of punch jaws by pressing both handles.
Serrer la poignée.
Cerrar el bocado (punta) de la pinza comprimiendo el mango.
Chiudere il morso della pinza premendo il manico.

4. Verriegelung durch Verschlusschraube (eine Vierteldrehung nachrechts).

interlocking of locking screw by a quarter turn to the right side.
Pour fermer tourner la disque arrière de 90° à droite.
Bloquear la pinza girando el disco de cierre de 90°.
Chiudere la pinza con un giro di 90° del disco di chiusura.



Einsatzbereit

ready for use
Pince prêt pour l'utilisation
La pinza está lista para su uso
Lo strumento è pronto



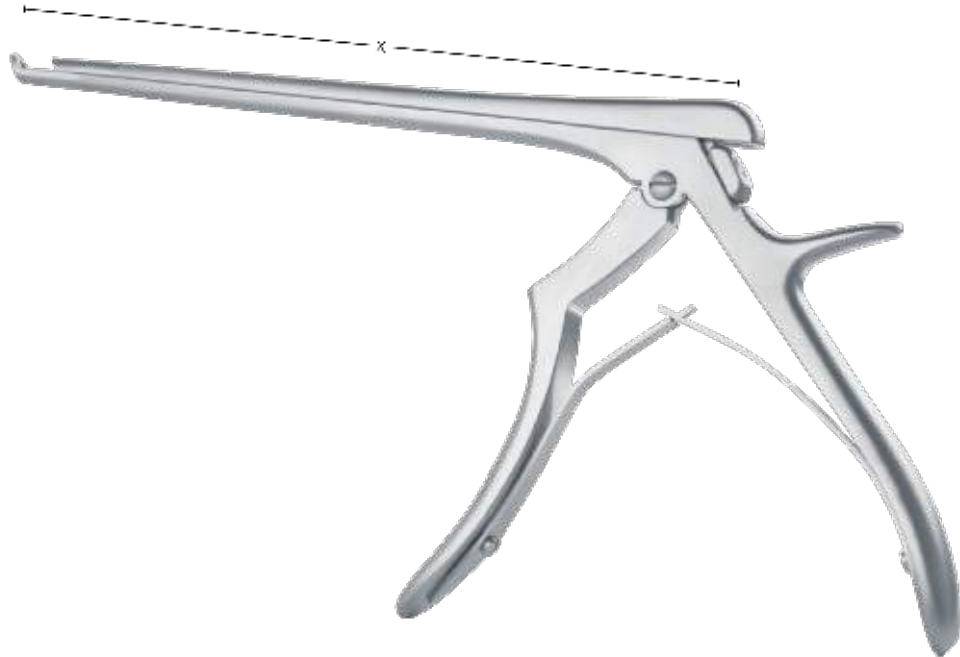
Zerlegbare Laminektomiestanzen






Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie

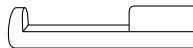
Pinzas cortantes desmontables para laminectomía

Pinze taglienti smontabili per laminectomia

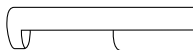


| | | | | | |
|---|---|---|---|--|---|
| 1:1  | 1:1  | 1:1  | 1:1  | 1:1  | 1:1  |
| 1 mm | 2 mm | 3 mm | 4 mm | 5 mm | 6 mm |

FERRIS-SMITH-KERRISON



| | x = 180 mm – 7" | x = 200 mm – 8" | x = 230 mm – 9" |
|------|-----------------|-----------------|-----------------|
| 1 mm | 340-506-010Z | 340-502-010Z | 29-430-001Z |
| 2 mm | 29-420-002Z | 340-502-020Z | 29-430-002Z |
| 3 mm | 29-420-003Z | 340-502-030Z | 29-430-003Z |
| 4 mm | 340-506-040Z | 340-502-040Z | 29-430-004Z |
| 5 mm | 29-420-005Z | 340-502-050Z | 29-430-005Z |
| 6 mm | 340-506-060Z | 340-502-060Z | 29-430-006Z |



| | | | |
|------|--------------|--------------|-------------|
| 1 mm | 340-507-010Z | 340-500-010Z | 29-432-001Z |
| 2 mm | 29-422-002Z | 340-500-020Z | 29-432-002Z |
| 3 mm | 29-422-003Z | 340-500-030Z | 29-432-003Z |
| 4 mm | 340-507-040Z | 340-500-040Z | 29-432-004Z |
| 5 mm | 29-422-005Z | 340-500-050Z | 29-432-005Z |
| 6 mm | 340-507-060Z | 340-500-060Z | 29-432-006Z |



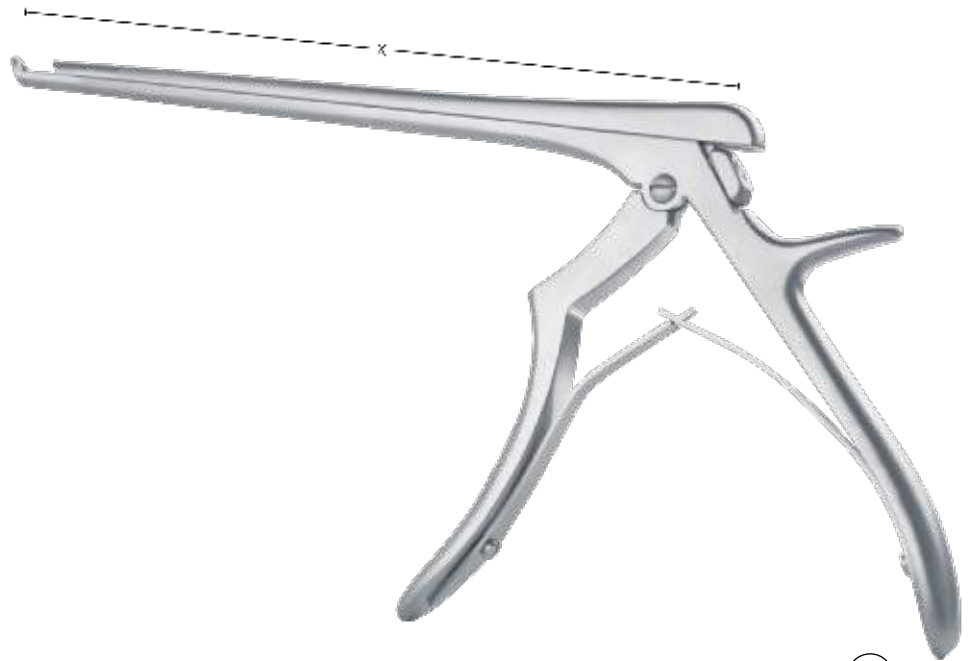
Zerlegbare Laminektomiestanzen

Dismantable laminectomy punches

Pinces emporte-pièces démontables à laminectomie

Pinzas cortantes desmontables para laminectomía

Pinze taglienti smontabili per laminectomia

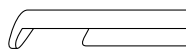


| | | | | | |
|------|------|------|------|------|------|
| 1:1 | 1:1 | 1:1 | 1:1 | 1:1 | 1:1 |
| 1 mm | 2 mm | 3 mm | 4 mm | 5 mm | 6 mm |

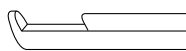
FERRIS-SMITH-KERRISON



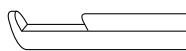
| | x = 180 mm - 7 " | x = 200 mm - 8 " | x = 230 mm - 9 " |
|------|------------------|------------------|------------------|
| 1 mm | 340-508-010Z | 340-503-010Z | 29-434-001Z |
| 2 mm | 29-424-002Z | 340-503-020Z | 29-434-002Z |
| 3 mm | 29-424-003Z | 340-503-030Z | 29-434-003Z |
| 4 mm | 340-508-040Z | 340-503-040Z | 29-434-004Z |
| 5 mm | 29-424-005Z | 340-503-050Z | 29-434-005Z |
| 6 mm | 340-508-060Z | 340-503-060Z | 29-434-006Z |



| | | | |
|------|--------------|--------------|-------------|
| 1 mm | 340-509-010Z | 340-519-010Z | |
| 2 mm | 340-509-020Z | 340-519-020Z | 29-436-002Z |
| 3 mm | 340-509-030Z | 340-519-030Z | 29-436-003Z |
| 4 mm | 340-509-040Z | 340-519-040Z | 29-436-004Z |
| 5 mm | 340-509-050Z | 340-519-050Z | 29-436-005Z |
| 6 mm | 340-509-060Z | 340-519-060Z | 29-436-006Z |



| | | | |
|------|--------------|--|--|
| 1 mm | 340-511-010Z | | |
| 2 mm | 340-511-020Z | | |
| 3 mm | 340-511-030Z | | |



| | | | |
|------|--------------|--|--|
| 1 mm | 340-513-010Z | | |
| 2 mm | 340-513-020Z | | |
| 3 mm | 340-513-030Z | | |



Dünne Fußplatte
Thin footplate
Plaque de coupe étroite
Lámina de punción estrecha
Battente sottile

Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglianti per laminectomia

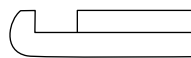


1:1

1:1

| | |
|------|------|
| 3 mm | 5 mm |
|------|------|

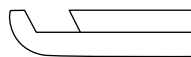
COLCLOUGH



| | | |
|------|----------------------------|----------------------------|
| | $x = 150 \text{ mm} - 6''$ | $x = 200 \text{ mm} - 8''$ |
| 3 mm | 29-320-150 | 29-320-200 |
| 5 mm | 29-322-150 | 29-322-200 |



| | | |
|------|------------|------------|
| 3 mm | 29-330-150 | 29-330-200 |
| 5 mm | 29-332-150 | 29-332-200 |



| | | |
|------|------------|------------|
| 3 mm | 29-380-150 | 29-380-200 |
| 5 mm | 29-382-150 | 29-382-200 |

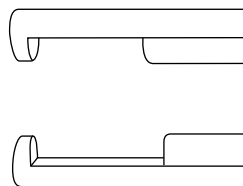


Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia



FERRIS-SMITH-KERRISON

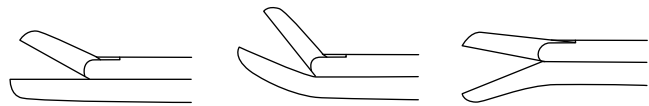


| | |
|------|----------------------------|
| | $x = 180 \text{ mm} - 7''$ |
| 5 mm | 29-252-050 |

| | |
|------|------------|
| 5 mm | 29-250-050 |
|------|------------|

Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia



1:1

CUSHING

| | | | |
|------------------|--------------|--------------|--------------|
| | 2 mm x 10 mm | 2 mm x 10 mm | 2 mm x 10 mm |
| x = 130 mm – 5" | 29-730-130 | 29-733-130 | 29-735-130 |
| x = 180 mm – 7" | 29-730-180 | 29-733-180 | 29-735-180 |
| x = 220 mm – 8¾" | 29-730-220 | 29-733-220 | 29-735-220 |

1:1

LOVE-GRUENWALD

| | | | |
|-----------------|--------------|--------------|--------------|
| | 3 mm x 10 mm | 3 mm x 10 mm | 3 mm x 10 mm |
| x = 130 mm – 5" | 29-770-130 | 29-773-130 | 29-775-130 |
| x = 150 mm – 6" | 29-770-150 | 29-773-150 | 29-775-150 |
| x = 180 mm – 7" | 29-770-180 | 29-773-180 | 29-775-180 |

1:1

SPURLING

| | | | |
|-----------------|--------------|--------------|--------------|
| | 4 mm x 10 mm | 4 mm x 10 mm | 4 mm x 10 mm |
| x = 150 mm – 6" | 29-820-150 | 29-823-150 | 29-825-150 |
| x = 180 mm – 7" | 29-820-180 | 29-823-180 | 29-825-180 |
| x = 230 mm – 9" | 29-820-230 | 29-823-230 | 29-825-230 |

1:1

CLOWARD

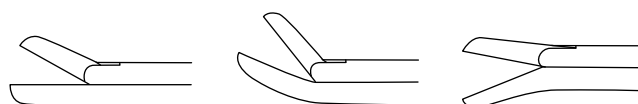
| | |
|-----------------|--------------|
| | 6 mm x 10 mm |
| x = 180 mm – 7" | 29-830-180 |



Laminektomiestanzen

Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglianti per laminectomia



FERRIS-SMITH



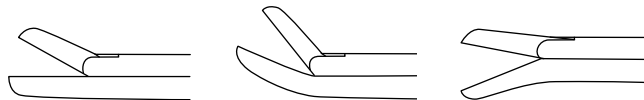
| | x = 180 mm – 7" | x = 180 mm – 7" | x = 180 mm – 7" |
|--------------|-----------------|-----------------|-----------------|
| 2 mm x 10 mm | 29-720-002 | 340-451-020 | 340-453-020 |
| 3 mm x 10 mm | 29-720-003 | 340-451-030 | 340-453-030 |
| 4 mm x 10 mm | 29-720-004 | 340-451-040 | 340-453-040 |
| 5 mm x 10 mm | 29-720-005 | 340-451-050 | 340-453-050 |
| 6 mm x 10 mm | 29-720-006 | 340-451-060 | 340-453-060 |







Andere Längen und Ausführungen sind auf Anfrage lieferbar.
 Other lengths and executions are available upon request.
 Autres longueurs et exécutions sont disponibles sur demande.
 Otras longitudes y dimensiones son disponibles según demanda.
 Altre lunghezze e modelli fornibili a richiesta.

Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglianti per laminectomia



CASPAR

| | | x = 155 mm – 6" | x = 155 mm – 6" | x = 155 mm – 6" |
|---|------|-----------------|-----------------|-----------------|
| 1:1  | 2 mm | 340-466-020 | 340-467-020 | 340-469-020 |
| 1:1  | 3 mm | 340-466-030 | 340-467-030 | 340-469-030 |
| 1:1  | 4 mm | 340-466-040 | 340-467-040 | 340-469-040 |
| 1:1  | 5 mm | 340-466-050 | | |



Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia



OLDBERG

| | | |
|----------------------------|------------|------------|
| $x = 180 \text{ mm} - 7''$ | 3.5 mm Ø | 6.0 mm Ø |
| | 29-912-035 | 29-912-065 |



SCHLESINGER

| | | | |
|---------------|----------------------------|----------------------------|----------------------------|
| | 2 mm x 10 mm | 3 mm x 10 mm | 4 mm x 10 mm |
| | $x = 125 \text{ mm} - 5''$ | $x = 125 \text{ mm} - 5''$ | $x = 125 \text{ mm} - 5''$ |
| 190 mm - 7½'' | 424-994-020 | 424-994-030 | 424-994-040 |

gezahnt
 saw edge
 dentelé
 dentada
 dentata

Laminektomiestanzen
Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglienti per laminectomia



Maul gefenestert und gezahnt
Jaw fenestrated and serrated
Mors fenêtré et dentelé
Boca con orificio y dentada
Morso finestrato e dentellato



CASPAR

| | x = 140 mm – 5 ½" | x = 160 mm – 6 ¼" | x = 185 mm – 7 ¼" |
|--------------|-------------------|-------------------|-------------------|
| 2 mm x 12 mm | 340-456-200 | 340-460-200 | 340-464-200 |
| 3 mm x 12 mm | 340-456-300 | 340-460-300 | 340-464-300 |
| 4 mm x 14 mm | 340-456-400 | 340-460-400 | 340-464-400 |
| 5 mm x 14 mm | 340-456-500 | 340-460-500 | 340-464-500 |
| 6 mm x 16 mm | 340-456-600 | 340-460-600 | 340-464-600 |



| | x = 140 mm – 5 ½" | x = 160 mm – 6 ¼" | x = 185 mm – 7 ¼" |
|----------------|-------------------|-------------------|-------------------|
| 2 mm x 12 mm | 340-457-200 | 340-461-200 | |
| 2.5 mm x 12 mm | 340-457-250 | 340-461-250 | 340-465-300 |
| 4 mm x 14 mm | 340-457-400 | 340-461-400 | 340-465-400 |
| 5 mm x 14 mm | 340-457-500 | 340-461-500 | 340-465-500 |



| | x = 140 mm – 5 ½" | x = 160 mm – 6 ¼" | x = 185 mm – 7 ¼" |
|--------------|-------------------|-------------------|-------------------|
| 2 mm x 12 mm | 340-459-200 | 340-463-200 | |
| 3 mm x 12 mm | 340-459-250 | 340-463-250 | 340-471-300 |
| 4 mm x 14 mm | 340-459-400 | 340-463-400 | 340-471-400 |



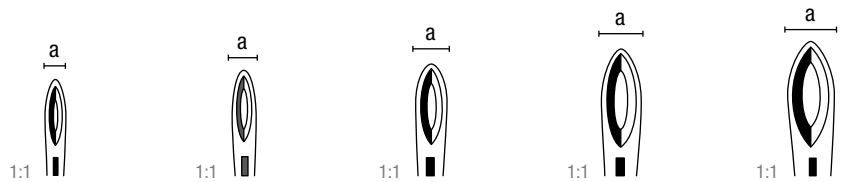
Laminektomiestanzen

Laminectomy punches

Pinces emporte-pièces à laminectomie
Pinzas cortantes para laminectomía
Pinze taglianti per laminectomia



**WEIL-
BLAKESLEY**



| | Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 |
|--|------------|------------|------------|------------|------------|
| | a = 3.0 mm | a = 3.5 mm | a = 4.5 mm | a = 5.0 mm | a = 5.5 mm |



| | | | | | |
|---------------------|------------|------------|------------|------------|------------|
| x = 120 mm – 4 3/4" | 46-321-001 | 46-321-002 | 46-321-003 | 46-321-004 | 46-321-005 |
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| x = 120 mm – 4 3/4" | 46-319-001 | 46-319-002 | 46-319-003 | 46-319-004 | |
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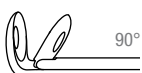


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|---------------------|------------|------------|------------|--|--|
| x = 120 mm – 4 3/4" | 46-317-001 | 46-317-002 | 46-317-003 | | |
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| | Fig. 1 | Fig. 2 | Fig. 3 | Fig. 4 | Fig. 5 |
|--|------------|------------|------------|------------|------------|
| | a = 3.0 mm | a = 3.5 mm | a = 4.5 mm | a = 5.0 mm | a = 5.5 mm |



| | | | | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| x = 180 mm – 7" | 346-223-010 | 346-223-020 | 346-223-030 | 346-223-040 | 346-223-050 |
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| | | | | | |
|-----------------|-------------|-------------|-------------|-------------|--|
| x = 180 mm – 7" | 346-225-010 | 346-225-020 | 346-225-030 | 346-225-040 | |
|-----------------|-------------|-------------|-------------|-------------|--|