

Aesculap Special Instruments for Anterior Cervical Approach



Aesculap Spine

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¹ Nabhan A, Pape D, Pitzen T, Steudel WI, Bachelier F, Jung J, Ahlhelm F. Radiographic analysis of fusion progression following one-level cervical fusion with or without plate fixation. *Zentralbl Neurochir.* 2007 Aug;68(3):133-8. PubMed PMID: 17665339

² Bohlman HH, Emery SE, Goodfellow DB, Jones PK. Robinson anterior cervical discectomy and arthrodesis for cervical radiculopathy. *J Bone Joint Surg Am.* 1993 Sep;75(9):1298-307. Pub Med PMID: 8408151

³ Caspar W, Geisler FH, Pitzen T, Johnson TA. Anterior cervical plate stabilization in one- and two-level degenerative disease: overtreatment or benefit? *J Spinal Disord.* 1998 Feb;11(1):1-11. Pub Med PMID: 9493763

⁴ Cloward RD. Treatment of acute fractures and fracture-dislocations of the cervical spine by vertebral-body fusion. A report of eleven cases. *J Neurosurg.* 1961;18:201-9. Pub Med PMID: 13694141

⁵ Zhou J, Li X, Dong J, Zhou X, Fang T, Lin H, Ma Y. Three-level anterior cervical discectomy and fusion with self-locking stand-alone polyetheretherketone cages. *J Clin Neurosci.* 2011 Nov;18(11):1505-9. PubMed PMID: 21924914

⁶ Peng-Fei S, Yu-Hua J. Cervical disc prosthesis replacement and interbody fusion: a comparative study. *Int Orthop.* 2008 Feb;32(1):103-6. PubMed PMID: 17180356

⁷ Moatz B, Tortolani PJ. Cervical disc arthroplasty: Pros and cons. *Surg Neurol Int.* 2012 Mar;(Suppl 3):216-24. PubMed PMID: 22905327

A | Preface

Anterior cervical discectomy and fusion (ACDF) using an interbody fusion device or bone graft in combination with plate fixation is an accepted technique for the treatment of degenerative disc disease.^{1,2,3,4} The success of this surgical procedure which is also considered as the golden standard, relies on decompression and development of a solid osseous fusion. Traditional interbody fusion using tricortical bone graft can maintain disc height as well as foraminal height at the intervertebral segment.⁵ More modern techniques involve the use of interbody fusion devices made of synthetic materials (PEEK, carbon fiber) or titanium. Special coating of the cage (e.g. Plasmapore®) can promote implant stability and bony ingrowth.

Anterior plate osteosynthesis with a bone graft support or with an interbody fusion device cannot only be applied to degenerative instability but also to traumatic, tumorous, rheumatoid and infectious instability.

Another option to treat symptomatic cervical discopathy is to maintain the motion through the use of an artificial cervical intervertebral disc. Artificial cervical discs are supposed to slow down the degeneration of the adjacent disc, allowing the physiological alignment and range of motion of vertebrae to be restored as best as possible.⁶ This procedure has emerged as a potential alternative to ACDF in appropriately selected patients.⁷

The purpose of this brochure is to give an overview about special instruments for the anterior approach to the cervical spine including both, ACDF and motion preservation techniques.



B | Ordering Information

CASPAR® Combined Neck and Head Rest

The rest is especially suitable for fusion and plate osteosynthesis procedures but is also applicable for all other operations with cervical anterior approach.

The stable construction and high versatility of the CASPAR® Combined Neck and Head Rest permits adaptation to the individual patient and access to the surgical site, particularly for intra-operative C-arm fluoroscopy.

FF140

Combined neck and head rest, consisting of a head and neck cushion (FF141, FF143) and an integrated adjustable skull traction device with stand.



FF141

Head cushion, attachable to the head support (included in the FF140 set).

FF142

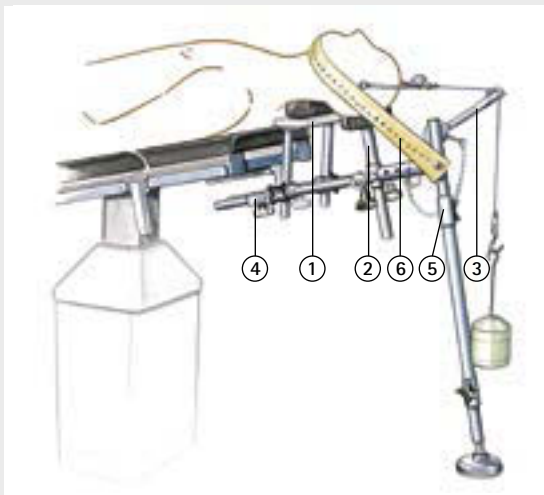
Rubber band for elastic head fixation (must be ordered separately).

FF143

Neck cushion, attachable to the neck support (included in the FF140 set).

FF144

Neck support transparent to X-ray, without cushion, 265 x 62 x 75 mm (must be ordered separately).



① Neck support with detachable cushion. Adjustable vertically, horizontally and obliquely. Can be rotated for longitudinal or transverse use. Illustrated here is the version which is transparent to X-ray. This neck support (FF144), with neck cushion, transparent to X-ray in the sagittal plane, can be adjusted for height and position, and can easily be exchanged for the regular neck support.

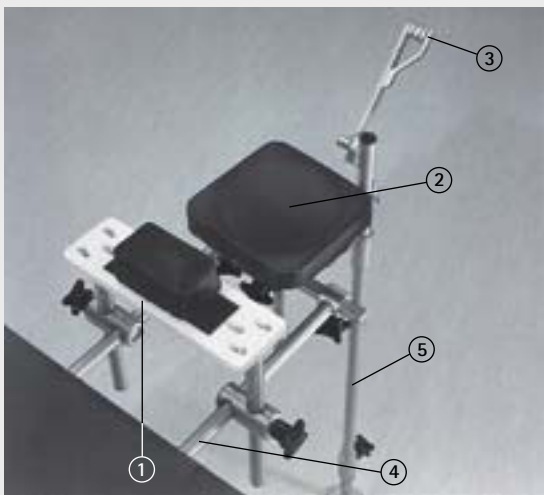
② Head support with cushion, adjustable height.

③ Guide pulley for traction rope, adjustable height.

④ Fixation to operating table (if necessary, the MAQUET Universal Adaptor 1005.27 may be used).

⑤ Stand, adjustable height.

⑥ Rubber band for elastic head fixation (FF142).



B | Ordering Information

Instruments for approach

BA311SU



BA323SU



Scalpels for Single Use (10 pieces)
230 mm



BV997R

GELPI

Skin retractor
175 mm



BV085R

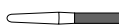
ADSON

Wound retractor, semi-sharp
140 mm



US602

1.0 mm



US604

2.0 mm



Rose Gold bipolar non-stick forceps,
insulated
190 mm



GN133

for bipolar coagulation units Aesculap
GN060, GN160, GN640 such as BOWA,
Lamidey, Söring and Valleylab



Instruments for approach

Explanation



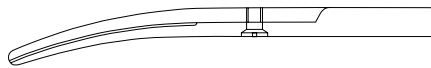
prevents tissue or suture materials from slipping out.

»grazil«

Scissors with special delicate and slim design.

DUROTIP®

Scissors with inserted carbide guarantee permanent cutting edge.



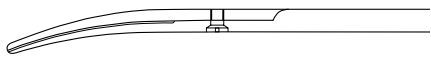
BC263R 

METZENBAUM

curved
180 mm



»grazil« **DUROTIP®**



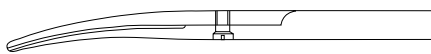
BC271R 

METZENBAUM

curved
180 mm



»grazil« **DUROTIP®**



BC273R 

TÖNNIS-ADSON

curved
175 mm



»grazil« **DUROTIP®**

B | Ordering Information

Soft tissue retraction: CCR System (CASPAR® Cervical Retractor System)

BW049R

CCR basic cervical retractor, preferably used for medial-lateral retraction, double hinge, tiltable butterfly screw, side load mechanism



BW047R

CCR basic counter retractor, preferably used for longitudinal retraction, double hinge, side load mechanism



BW048R

CCR longitudinal counter retractor, preferably used for longitudinal retraction, with high loading, high torsion resistance, side load mechanism



BW010R

Handle for blades for a modular use as hand-held retractors (as Langenbeck hand retractor)



BW011P

Depth gauge to determine the appropriate blade length



Soft tissue retraction: CCR System (CASPAR® Cervical Retractor System)

BW139R

CCR radiolucent basic retractor, preferably used for medial-lateral retraction, double hinge, tiltable butterfly screw, side load mechanism



BW137R

CCR radiolucent basic counter retractor, preferably used for longitudinal retraction, double hinge, side load mechanism



BW138R

CCR radiolucent longitudinal counter retractor, preferably used for longitudinal retraction, with high loading, high torsion resistance, side load mechanism



Info

See following pages for blades!



B | Ordering Information

Soft tissue retraction: CCR System (CASPAR® Cervical Retractor System)

Blades



Titanium

BW050T	CCR blade, toothed (medial/lateral), 19 x 25 mm
BW051T	CCR blade, toothed (medial/lateral), 19 x 30 mm
BW052T	CCR blade, toothed (medial/lateral), 19 x 35 mm
BW053T	CCR blade, toothed (medial/lateral), 19 x 40 mm
BW054T	CCR blade, toothed (medial/lateral), 19 x 45 mm
BW055T	CCR blade, toothed (medial/lateral), 19 x 50 mm
BW056T	CCR blade, toothed (medial/lateral), 19 x 55 mm
BW057T	CCR blade, toothed (medial/lateral), 19 x 60 mm

Titanium

BW060T	CCR blade, blunt (longitudinal), 19 x 25 mm
BW061T	CCR blade, blunt (longitudinal), 19 x 30 mm
BW062T	CCR blade, blunt (longitudinal), 19 x 35 mm
BW063T	CCR blade, blunt (longitudinal), 19 x 40 mm
BW064T	CCR blade, blunt (longitudinal), 19 x 45 mm
BW065T	CCR blade, blunt (longitudinal), 19 x 50 mm
BW066T	CCR blade, blunt (longitudinal), 19 x 55 mm
BW067T	CCR blade, blunt (longitudinal), 19 x 60 mm

Titanium

BW141T	CCR blade, small teeth (lateral), 24 x 30 mm
BW142T	CCR blade, small teeth (lateral), 24 x 35 mm
BW143T	CCR blade, small teeth (lateral), 24 x 40 mm
BW144T	CCR blade, small teeth (lateral), 24 x 45 mm
BW145T	CCR blade, small teeth (lateral), 24 x 50 mm
BW146T	CCR blade, small teeth (lateral), 24 x 55 mm
BW147T	CCR blade, small teeth (lateral), 24 x 60 mm
BW148T	CCR blade, small teeth (lateral), 24 x 65 mm
BW149T	CCR blade, small teeth (lateral), 24 x 70 mm

Titanium

BW151T	CCR blade, large teeth (medial), 24 x 30 mm
BW152T	CCR blade, large teeth (medial), 24 x 35 mm
BW153T	CCR blade, large teeth (medial), 24 x 40 mm
BW154T	CCR blade, large teeth (medial), 24 x 45 mm
BW155T	CCR blade, large teeth (medial), 24 x 50 mm
BW156T	CCR blade, large teeth (medial), 24 x 55 mm
BW157T	CCR blade, large teeth (medial), 24 x 60 mm
BW158T	CCR blade, large teeth (medial), 24 x 65 mm
BW159T	CCR blade, large teeth (medial), 24 x 70 mm

Soft tissue retraction: CCR System (CASPAR® Cervical Retractor System)

Blades



Titanium

BW162T	CCR blade, blunt (longitudinal), 24 x 35 mm
BW163T	CCR blade, blunt (longitudinal), 24 x 40 mm
BW164T	CCR blade, blunt (longitudinal), 24 x 45 mm
BW165T	CCR blade, blunt (longitudinal), 24 x 50 mm
BW166T	CCR blade, blunt (longitudinal), 24 x 55 mm
BW167T	CCR blade, blunt (longitudinal), 24 x 60 mm
BW168T	CCR blade, blunt (longitudinal), 24 x 65 mm
BW169T	CCR blade, blunt (longitudinal), 24 x 70 mm
BW170T	CCR blade, blunt (longitudinal), 24 x 75 mm

PEEK

BW251P	CCR blade, toothed (medial/lateral), 19 x 30 mm
BW252P	CCR blade, toothed (medial/lateral), 19 x 35 mm
BW253P	CCR blade, toothed (medial/lateral), 19 x 40 mm
BW254P	CCR blade, toothed (medial/lateral), 19 x 45 mm
BW255P	CCR blade, toothed (medial/lateral), 19 x 50 mm
BW256P	CCR blade, toothed (medial/lateral), 19 x 55 mm
BW257P	CCR blade, toothed (medial/lateral), 19 x 60 mm
BW258P	CCR blade, toothed (medial/lateral), 19 x 65 mm
BW259P	CCR blade, toothed (medial/lateral), 19 x 70 mm

PEEK

BW261P	CCR blade, blunt (longitudinal), 19 x 30 mm
BW262P	CCR blade, blunt (longitudinal), 19 x 35 mm
BW263P	CCR blade, blunt (longitudinal), 19 x 40 mm
BW264P	CCR blade, blunt (longitudinal), 19 x 45 mm
BW265P	CCR blade, blunt (longitudinal), 19 x 50 mm
BW266P	CCR blade, blunt (longitudinal), 19 x 55 mm
BW267P	CCR blade, blunt (longitudinal), 19 x 60 mm
BW268P	CCR blade, blunt (longitudinal), 19 x 65 mm
BW269P	CCR blade, blunt (longitudinal), 19 x 70 mm

B | Ordering Information

Instruments for vertebral body distraction

FF900R Set

CASPAR®

Vertebral body distractor, for use in surgical procedures from the left approach for C5 through T1/2 and from the right approach for the upper cervical spine.

Please order separately:

FF903R

Distractor, like FF901R, but with elongated toothed bar, for multilevel (more than 2) distraction.



Consisting of:

FF901R	Distractor only
FF907R	Drill guide
FF908R	Twist drill
FF905SB	10 distraction screws, 16 mm
FF906R	Screw driver



FF907R

CASPAR®

Drill guide for parallel positioning of the distraction screws, to be used with distractor FF901R or FF903R.

FF908R

CASPAR®

Drill bit, Ø 1.7 mm for pre-drilling holes for distraction screws, drilling depth: 8 mm, shank Ø 2.35 mm 145 mm



Recommendation:

FF908R preferably to be used with micro-Line handpiece GD450M and with Aesculap motor system

GD450M

micro-Line handpiece, transmission 1:1



Instruments for vertebral body distraction

FF890R

Set

CASPAR®

Vertebral body distractor, for use in surgical procedures from the right approach for C5 through T1/2 and from the left approach for the upper cervical spine.

Please order separately:

FF893R

Distractor, like FF891R, but with elongated toothed bar, for multilevel (more than 2) distraction.

Consisting of:

FF891R	Distractor only
FF897R	Drill guide
FF908R	Twist drill
FF905SB	10 distraction screws, 16 mm
FF906R	Screw driver



FF897R

CASPAR®

Drill guide for parallel positioning of the distraction screws, to be used with distractor FF891R or FF893R.



FF906R

CASPAR®

Screw driver for distraction screws 20 mm



FF912SB, FF904SB, FF905SB and FF909SB

CASPAR®

Distraction screws to be used with distractors FF901R and FF891R, at least 2 pieces are required.



FF912SB	12 mm	10 pieces
FF904SB	14 mm	10 pieces
FF905SB	16 mm	10 pieces
FF909SB	18 mm	10 pieces

B | Ordering Information

Instruments for vertebral body distraction

FW849R

Cervical lockable distractor

Lockable vertebral body distractor, for use in surgical procedures from the left approach for C5 through T1/2 and from the right approach for the upper cervical spine. Sleeves with locking mechanism to interlock the distraction screws.



FW848R

Cervical lockable distractor

Lockable vertebral body distractor, for use in surgical procedures from the right approach for C5 through T1/2 and from the left approach for the upper cervical spine. Sleeves with locking mechanism to interlock the distraction screws.



Instruments for vertebral body distraction

FW850R

Screw driver for lockable distraction screw

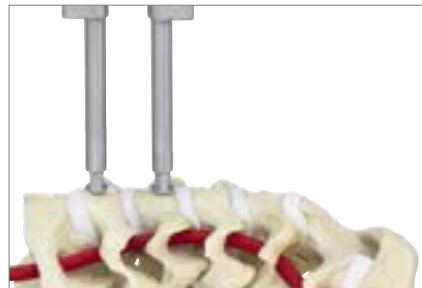


FW861SU, FW862SU, FW855SU and FW856SU

Lockable standard screws to be used with distractors FW849R and FW848R.



FW861SU	12 mm	2 pieces
FW862SU	14 mm	2 pieces
FW855SU	16 mm	2 pieces
FW856SU	18 mm	2 pieces



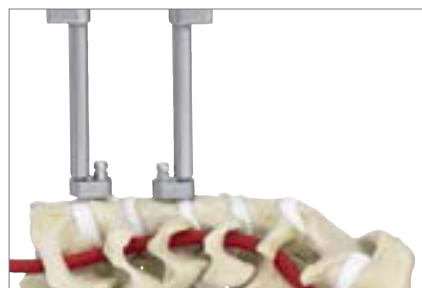
FW851SU – FW854SU

Lockable off-set screws

Lockable off-set distraction screw providing more in space to the surgical field, even in small anatomical conditions to be used with distractors FW849R and FW848R.



FW851SU	12 mm	2 pieces
FW852SU	14 mm	2 pieces
FW853SU	16 mm	2 pieces
FW854SU	18 mm	2 pieces



B | Ordering Information

Instruments for discectomy

BB078R

Scalpel Handle
225 mm



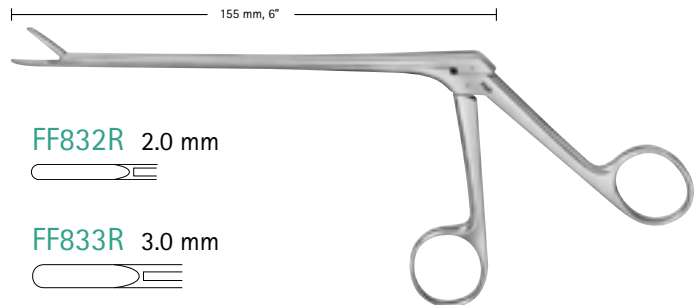
BB511

Carbon steel surgical blade, usable for incision of intervertebral discs
(100 pieces)

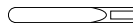


FF832R – FF834R

CASPAR®
Rongeur, straight, jaw standard
155 mm



FF832R 2.0 mm



FF833R 3.0 mm

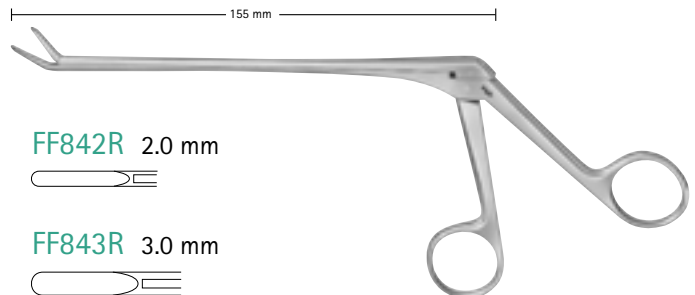


FF834R 4.0 mm



FF842R – FF843R

CASPAR®
Rongeur, 150°, jaw standard
155 mm



FF842R 2.0 mm



FF843R 3.0 mm

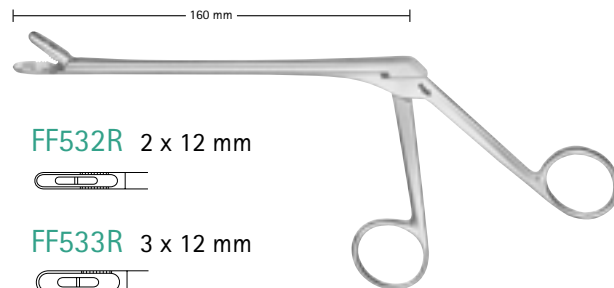


Instruments for discectomy

FF532R – FF534R

CASPAR®

Rongeur, straight, jaw serrated
160 mm



FF532R 2 x 12 mm



FF533R 3 x 12 mm



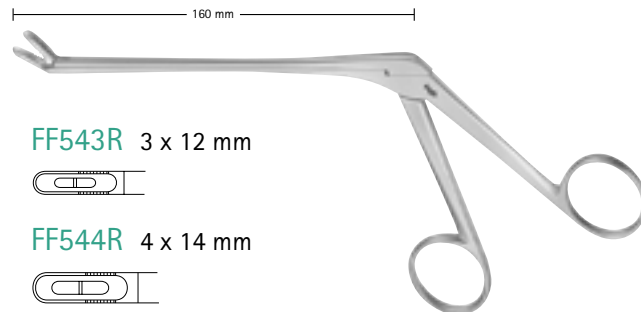
FF534R 4 x 14 mm



FF543R – FF544R

CASPAR®

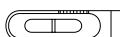
Rongeur, 150°, jaw serrated
160 mm



FF543R 3 x 12 mm



FF544R 4 x 14 mm



For the full range of Aesculap rongeurs,
please ask for:
C24502



B | Ordering Information

Instruments for discectomy and preparation of graft site

FK328R

CASPAR®

Longus colli muscle dissector
180 mm



FL101R, FL102R, FL104R

LAMBOTTE

Osteotome, straight
125 mm



FL101R

FL102R

FL104R

4.0 mm

6.0 mm

8.0 mm

F0520R

MARQUARDT

Bone Rongeur, curved
200 mm



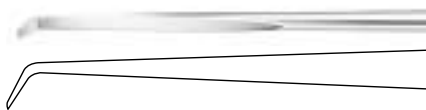
FF917R – FF918R

CASPAR®

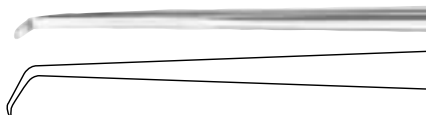
Vertebral body dissectors, usable for loosening the posterior longitudinal ligament and removal of disk fragments and osteophytes
205 mm



FF917R



FF918R



Instruments for discectomy and preparation of graft site

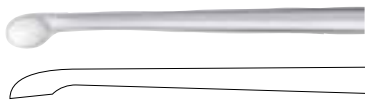
FK773R – FK785R

CASPAR®

Scoops
220 mm

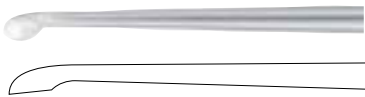
FK773R – FK775R

straight



FK783R – FK785R

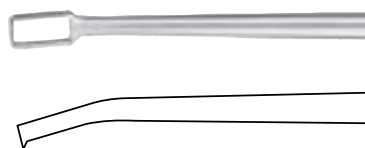
curved



FK834R – FK836R

CASPAR®

Curretes, toothed
220 mm



FK773R

3.6 x 5 mm



FK774R

4.4 x 6.2 mm



FK775R

5.2 x 7.3 mm



FK783R

3.6 x 5 mm



FK784R

4.4 x 6.2 mm



FK785R

5.2 x 7.3 mm



FK834R

4 mm



FK835R

5 mm



FK836R

6 mm



B | Ordering Information

Preparation of graft site

FF310R

CASPAR®

Micro dissector, curved
200 mm



1.0 mm

FF305R – FF307R

CASPAR®

Micro dissector, bayonett shaped,
downwards curved
250 mm



FF305R 4.5 mm



FF307R 2.0 mm



FF300R

DAVIS

Dissector, blunt, round handle,
double ended
245 mm



4.5 mm



OL165R

FREER

Elevatorium, blunt/sharp
185 mm



Preparation of graft site

FD396R – FD399R

KRAYENBÜHL

Nerve- and Vessel hooks, probe-end
185 mm

FD396R



FD397R



FD398R



FD399R



BT088R – BT091R

CASPAR®

Exploration hooks, probe-end
245 mm

BT088R



BT089R



BT090R



BT091R



B | Ordering Information

Preparation of graft site / microspeed uni – Electric High Speed Motor System

GD670

microspeed uni control unit



GD675

microspeed uni XS high speed motor
for all Hi-Line XS, Hi-Line XXS hand-
pieces



GD678

microspeed uni micro motor
for micro-Line handpieces
(e.g. GD450M, GB129)



GD672

microspeed uni motor cable



GD668

microspeed uni foot control – single
pedal



Preparation of graft site/HiLAN XS – Pneumatic High Speed Motor System

GA740R

HiLAN XS high speed motor
for all Hi-Line XS, Hi-Line XXS
handpieces



GA553

microLAN pneumatic motor
for micro-Line handpieces
(e.g. GD450M, GB129)



GA521

Foot pedal



GA513R

Motor hose (3 m)



GA464R

Supply hose (3 m) wall connection
Aesculap Dräger



GA468R

Supply hose (3 m) wall connection
Schrader



GA461R

Supply hose (3 m) wall connection DIN



B | Ordering Information

Preparation of graft site/High Speed Tools – For microspeed uni and HiLAN XS



mm/diam.
II
III

II
GB757R III
GB758R

mm/diam.
II
III

Rosen burrs

2.3	2.7	3.1	4.0	5.0	6.0
GE504R	GE505R	GE506R	GE507R	GE508R	GE509R
GE604R	GE605R	GE606R	GE607R	GE608R	GE609R

Diamond burrs

2.3	2.7	3.1	4.0	5.0	6.0
GE514R	GE515R	GE516R	GE517R	GE518R	GE519R
GE614R	GE615R	GE616R	GE617R	GE618R	GE619R

coarse

2.3	3.1	4.0	5.0	6.0
GE524R	GE525R	GE556SU	GE557SU	GE558SU
GE624R	GE625R	GE656SU	GE657SU	GE658SU

mm/diam.
II
III

extra coarse

4.0	5.0	6.0
GE556SU	GE557SU	GE558SU
GE656SU	GE657SU	GE658SU

Neuro cutters

1.8	2.3	3.1	3.1	3.1	3.1
GE531R	GE534R	GE535R	GE553R	GE554R	GE555R
GE631R	GE634R	GE635R	GE653R	GE654R	GE655R

mm/diam.
II
III

Preparation of graft site/High Speed Tools – For microspeed uni and HiLAN XS

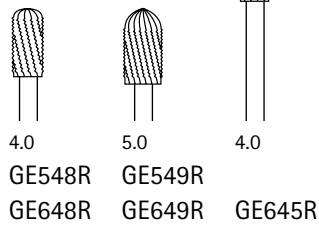


mm/diam.
II
III

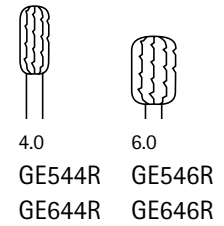
II
GB757R III
GB758R

mm/diam.
II
III

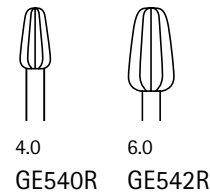
Barrel burrs soft cut



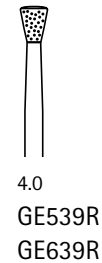
Barrel burrs standard



Cone burrs



Reverse taper burr coarse diamond



Oval burr



For further details,
please ask for:
028302

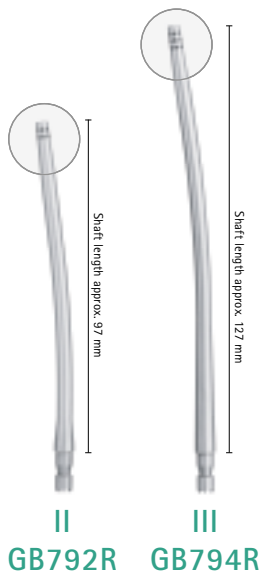


For further details,
please ask for:
026002

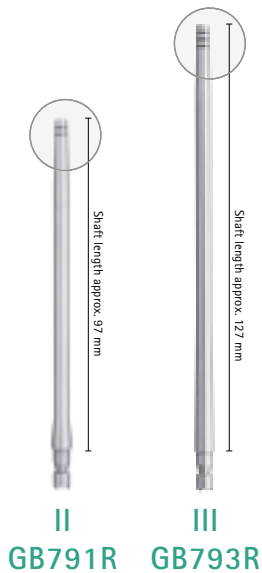


B | Ordering Information

Preparation of graft site/High Speed Tools – For microspeed uni and Hi-Line XXS



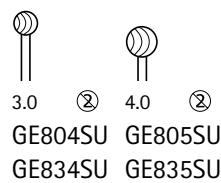
mm / diam.
II
III



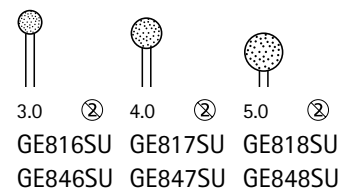
mm / diam.
II
III



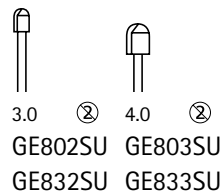
Rosen burrs



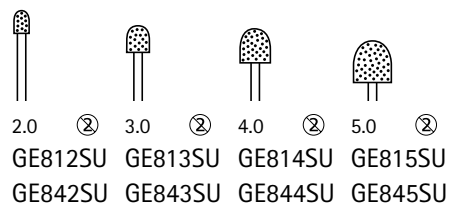
Round diamond burrs, coarse



Neuro cutter



Neuro cutter, coarse diamond



For further details,
please ask for:
046502

Preparation of graft site and decompression

KERRISION

Jaw position 130°, upward opening

shaft length 180 mm

Width (mm)								
	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0

Width (mm)	Footplate	Jaw width	Ejector	Detachable	Noir®, detachable
2.5 mm	standard	10	✓	FK912R	FK912B
3.0 mm	standard	10	✓	FK902R	FK902B
1.0 mm	thin	8	–	FK906R	FK906B
1.5 mm	thin	9	–	FK923R	FK923B
2.0 mm	thin	9	✓	FK907R	FK907B
2.5 mm	thin	10	✓	FK924R	FK924B
3.0 mm	thin	10	✓	FK908R	FK908B



For further details,
please ask for:
084802

B | Ordering Information

OPTIONAL:
Instruments for bone
graft harvesting

Bone graft harvesting and impaction of bone graft

AA845R

Caliper, for measurement of the bone graft and graft site until 150 mm, 220 mm



GC640R – GC646R

Oscillating double saw blades for harvesting of precisely dimensioned fusion grafts from the iliac crest (for vertical cutting). To be used with sagittal saw GB129.



GC640R	6 mm
GC641R	7 mm
GC642R	8 mm
GC643R	9 mm
GC644R	10 mm
GC645R	11 mm
GC646R	12 mm

GB129

micro-Line sagittal saw, to be used with Aesculap motor system microspeed uni



Bone graft harvesting and impaction of bone graft

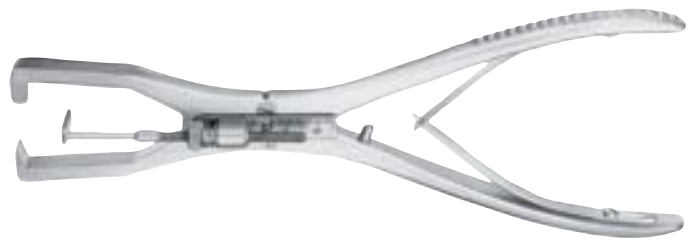
OPTIONAL:
CASPAR® instruments for
bone graft harvesting

FF927R – FF928R

FF927R

CASPAR®

Graft cutter with adjustable depth control,
10 mm width, for graft from 9 – 12 mm
220 mm



FF928R

CASPAR®

Graft cutter with adjustable depth control,
7 mm width, for graft from 6 – 9 mm
220 mm

FF911R

CASPAR®

Bone graft holder and impactor
220 mm



FF913R – FF915R

CASPAR®

Tapper for the fine positioning of the
graft and for cancellous bone plasty
200 mm



FF913R

ø 3 mm



FF914R

ø 5 mm



FF915R

ø 8 mm



C | Ordering Information – Set configurations

CCR System (CASPAR® Cervical Retractor System)

BW124

CCR retractor set
24 mm titanium blade system



Art. No.	Unit	Description
BW125P	1	CCR tray, with lid
BW049R	1	CCR basic retractor
BW047R	1	CCR counter retractor
BW048R	1	CCR counter retractor
BW010R	2	Handle
BW011P	1	Depth gauge
BW141T	1	CCR blade, small teeth (lateral), 24 x 30 mm
BW142T	1	CCR blade, small teeth (lateral), 24 x 35 mm
BW143T	1	CCR blade, small teeth (lateral), 24 x 40 mm
BW144T	1	CCR blade, small teeth (lateral), 24 x 45 mm
BW145T	1	CCR blade, small teeth (lateral), 24 x 50 mm
BW146T	1	CCR blade, small teeth (lateral), 24 x 55 mm
BW147T	1	CCR blade, small teeth (lateral), 24 x 60 mm
BW148T	1	CCR blade, small teeth (lateral), 24 x 65 mm
BW149T	1	CCR blade, small teeth (lateral), 24 x 70 mm
BW151T	1	CCR blade, large teeth (medial), 24 x 30 mm
BW152T	1	CCR blade, large teeth (medial), 24 x 35 mm

Art. No.	Unit	Description
BW153T	1	CCR blade, large teeth (medial), 24 x 40 mm
BW154T	1	CCR blade, large teeth (medial), 24 x 45 mm
BW155T	1	CCR blade, large teeth (medial), 24 x 50 mm
BW156T	1	CCR blade, large teeth (medial), 24 x 55 mm
BW157T	1	CCR blade, large teeth (medial), 24 x 60 mm
BW158T	1	CCR blade, large teeth (medial), 24 x 65 mm
BW159T	1	CCR blade, large teeth (medial), 24 x 70 mm
BW162T	1	CCR blade, blunt (longitudinal), 24 x 35 mm
BW163T	1	CCR blade, blunt (longitudinal), 24 x 40 mm
BW164T	1	CCR blade, blunt (longitudinal), 24 x 45 mm
BW165T	1	CCR blade, blunt (longitudinal), 24 x 50 mm
BW166T	1	CCR blade, blunt (longitudinal), 24 x 55 mm
BW167T	1	CCR blade, blunt (longitudinal), 24 x 60 mm
BW168T	1	CCR blade, blunt (longitudinal), 24 x 65 mm
BW169T	1	CCR blade, blunt (longitudinal), 24 x 70 mm
BW170T	1	CCR blade, blunt (longitudinal), 24 x 75 mm

BW123

CCR basic counter retractor set
24 mm titanium system

Art. No.	Units	Description
BW047R	1	CCR counter retractor
BW164T	1	CCR blade, blunt (longitudinal), 24 x 45 mm
BW165T	1	CCR blade, blunt (longitudinal), 24 x 50 mm

Art. No.	Units	Description
BW166T	1	CCR blade, blunt (longitudinal), 24 x 55 mm
BW167T	1	CCR blade, blunt (longitudinal), 24 x 60 mm
BW168T	1	CCR blade, blunt (longitudinal), 24 x 65 mm

CCR System (CASPAR® Cervical Retractor System)

BW119

CCR retractor set
19 mm titanium blade system
for microsurgical techniques



Art. No.	Units	Description
BW125P	1	CCR tray, with lid
BW049R	1	CCR basic retractor
BW047R	1	CCR counter retractor
BW048R	1	CCR counter retractor
BW010R	2	Handle
BW011P	1	Depth gauge
BW050T	2	CCR blade, toothed (medial/lateral), 19 x 25 mm
BW051T	2	CCR blade, toothed (medial/lateral), 19 x 30 mm
BW052T	2	CCR blade, toothed (medial/lateral), 19 x 35 mm
BW053T	2	CCR blade, toothed (medial/lateral), 19 x 40 mm
BW054T	2	CCR blade, toothed (medial/lateral), 19 x 45 mm

Art. No.	Units	Description
BW055T	2	CCR blade, toothed (medial/lateral), 19 x 50 mm
BW056T	2	CCR blade, toothed (medial/lateral), 19 x 55 mm
BW057T	2	CCR blade, toothed (medial/lateral), 19 x 60 mm
BW060T	1	CCR blade, blunt (longitudinal), 19 x 25 mm
BW061T	1	CCR blade, blunt (longitudinal), 19 x 30 mm
BW062T	1	CCR blade, blunt (longitudinal), 19 x 35 mm
BW063T	1	CCR blade, blunt (longitudinal), 19 x 40 mm
BW064T	1	CCR blade, blunt (longitudinal), 19 x 45 mm
BW065T	1	CCR blade, blunt (longitudinal), 19 x 50 mm
BW066T	1	CCR blade, blunt (longitudinal), 19 x 55 mm
BW067T	1	CCR blade, blunt (longitudinal), 19 x 60 mm

BW122

CCR basic retractor set
24 mm titanium system

Art. No.	Units	Description
BW049R	1	CCR basic retractor
BW010R	2	Handle
BW143T	1	CCR blade, small teeth (lateral), 24 x 40 mm
BW144T	1	CCR blade, small teeth (lateral), 24 x 45 mm
BW145T	1	CCR blade, small teeth (lateral), 24 x 50 mm
BW146T	1	CCR blade, small teeth (lateral), 24 x 55 mm

Art. No.	Units	Description
BW147T	1	CCR blade, small teeth (lateral), 24 x 60 mm
BW153T	1	CCR blade, large teeth (medial), 24 x 40 mm
BW154T	1	CCR blade, large teeth (medial), 24 x 45 mm
BW155T	1	CCR blade, large teeth (medial), 24 x 50 mm
BW156T	1	CCR blade, large teeth (medial), 24 x 55 mm
BW157T	1	CCR blade, large teeth (medial), 24 x 60 mm

C | Ordering Information – Set configurations

CCR System (CASPAR® Cervical Retractor System)

BW118

CCR-XX radiolucent retractor set



Art. No.	Units	Description
BW125P	1	Tray with lid
BW139R	1	CCR radiolucent basic retractor
BW137R	1	CCR radiolucent basic counter retractor
BW010R	2	Handle
BW011P	1	Depth gauge
BW251P	2	CCR blade, toothed (medial/lateral), 19 x 30 mm
BW252P	2	CCR blade, toothed (medial/lateral), 19 x 35 mm
BW253P	2	CCR blade, toothed (medial/lateral), 19 x 40 mm
BW254P	2	CCR blade, toothed (medial/lateral), 19 x 45 mm
BW255P	2	CCR blade, toothed (medial/lateral), 19 x 50 mm
BW256P	2	CCR blade, toothed (medial/lateral), 19 x 55 mm
BW257P	2	CCR blade, toothed (medial/lateral), 19 x 60 mm
BW258P	2	CCR blade, toothed (medial/lateral), 19 x 65 mm
BW259P	2	CCR blade, toothed (medial/lateral), 19 x 70 mm

Art. No.	Units	Description
BW261P	2	CCR blade, blunt (longitudinal), 19 x 30 mm
BW262P	2	CCR blade, blunt (longitudinal), 19 x 35 mm
BW263P	2	CCR blade, blunt (longitudinal), 19 x 40 mm
BW264P	2	CCR blade, blunt (longitudinal), 19 x 45 mm
BW265P	2	CCR blade, blunt (longitudinal), 19 x 50 mm
BW266P	2	CCR blade, blunt (longitudinal), 19 x 55 mm
BW267P	2	CCR blade, blunt (longitudinal), 19 x 60 mm
BW268P	2	CCR blade, blunt (longitudinal), 19 x 65 mm
BW269P	2	CCR blade, blunt (longitudinal), 19 x 70 mm

Vertebral body distraction

CASPAR® distractor



Art. No.	Units	Description
FF890R	1	Vertebral body distractor complete for approach from the right to C5-Th1 respectively the approach of the left C2-C5, consisting of: FF891R Distractor FF897R Drill guide FF908R Drill with drill stop FF905SB Distraction screw (10 pieces), 16 mm FF906R Screw driver for distraction screw
FF893R	1	Distractor like FF891R, but with elongated distraction arm
or: FF900R	1	Vertebral body distractor complete for approach from the left to C5-Th1 respectively the approach of the right C2-C5, consisting of: FF901R Distractor FF907R Drill guide FF908R Drill with drill stop FF905SB Distraction screw (10 pieces), 16 mm FF906R Screw driver for distraction screw
or: FF903R	1	Distractor like FF901R, but with elongated distraction arm
FF912SB	1	Distraction screws (10 pieces), 12 mm
FF904SB	1	Distraction screws (10 pieces), 14 mm
FF905SB	1	Distraction screws (10 pieces), 16 mm
FF909SB	1	Distraction screws (10 pieces), 18 mm
FF906R	1	Screw driver for distraction screw
FF917R	1	Vertebral body dissector
FF918R	1	Vertebral body dissector, toothed

Alternatively:
Cervical lockable
distractor



Art. No.	Units	Description
FW849R	1	Cervical lockable distractor Lockable vertebral body distractor, for use in surgical procedures from the left approach for C5 through T1/2 and from the right approach for the upper cervical spine. Sleeves with locking mechanism to interlock the distraction screws.
or: FW848R	1	Cervical lockable distractor Lockable vertebral body distractor, for use in surgical procedures from the right approach for C5 through T1/2 and from the left approach for the upper cervical spine. Sleeves with locking mechanism to interlock the distraction screws.
FW851SU	5	Lockable off-set screws (2 pieces), 12 mm
FW852SU	5	Lockable off-set screws (2 pieces), 14 mm
FW853SU	5	Lockable off-set screws (2 pieces), 16 mm
FW854SU	5	Lockable off-set screws (2 pieces), 18 mm
FW850R	1	Screw driver for lockable distraction screw
FF917R	1	Vertebral body dissector
FF918R	1	Vertebral body dissector, toothed

C | Ordering Information – Set configurations

COMPLEMENTARY SET

Graft harvesting and graft insertion

Art. No.	Units	Description
BV764R	2	Blades for graft harvesting at iliac crest, 50 x 25 mm to be used with BW047R, BW048 or BW049R
BV766R	2	Blades for graft harvesting at iliac crest, 60 x 25 mm to be used with BW047R, BW048 or BW049R
AA845R	1	Calliper
GC640R – GC646R	each 1x	Oscillating saw blade, height of 6 – 12 mm, range of length according the user
GB129	1	Oscillating saw handpiece with key (TE472) for changing the saw blades
FF928R	1	Graft cutter, 7 mm width of jaw
FF927R	1	Graft cutter, 10 mm width of jaw, for bone graft 9 – 12 mm
FF911R	1	Graft holder and impactor
FF913R	1	Tappet, Ø 3 mm
FF914R	1	Tappet, Ø 5 mm
FF915R	1	Tappet, Ø 8 mm
select on page 23 – 26	select quan- tity	Drills and burrs for precise preparation of the bone graft, to be used with either the micro-Line handpiece or Hi-Line XS or XXS handpiece, range of sizes according the user
FK773R	1	Scoop, straight, size of jaw 3.6 x 5 mm
FK774R	1	Scoop, straight, size of jaw 4.4 x 6.2 mm
FK775R	1	Scoop, straight, size of jaw 5.2 x 7.3 mm
FK783R	1	Scoop, curved, size of jaw 3.6 x 5 mm
FK784R	1	Scoop, curved, size of jaw 4.4 x 6.2 mm
FK785R	1	Scoop, curved, size of jaw 5.2 x 7.3 mm
FK834R	1	Curettes, square shaped jaw, toothed, 4 mm
FK835R	1	Curettes, square shaped jaw, toothed, 5 mm
FK836R	1	Curettes, square shaped jaw, toothed, 6 mm
JF213R	2	Perforated basket 485 x 253 x 76 mm
JF945	4	Silicone pad

Further Aesculap brochures



036602
CCR-XX



011202
CCR System Titanium



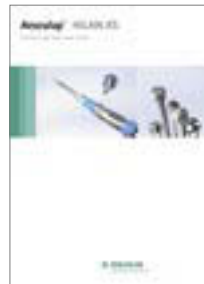
C24502
Detachable Rongeurs



C84802
Bone Punches



028302
microspeed uni



026002
HiLAN XS



046502
Hi-Line XXS



013502
CASPARevolution



029002
ABC2®



078002
Quintex®



016202
CeSPACE® Titanium / PEEK



071002
CeSPACE®XP



031202
activC®

