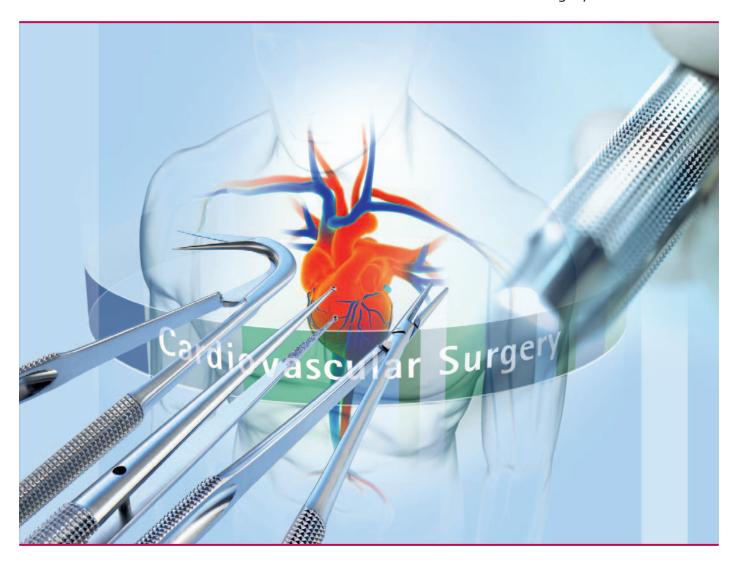
# **Aesculap Surgical Instruments**

Microinstruments for Cardiac and Vascular Surgery





# Think Innovation. Think Aesculap.

In this brochure we present a range of microsurgical instruments for cardiovascular surgery.

Above all, the programme contains a very extensive and well balanced selection of micro scissors, micro forceps and micro needleholders – produced using the most advanced manufacturing technologies and selected materials for outstanding functionality at low weight. The diamond dust coating (DIA DUST®) and the tungsten carbide technology (DUROGRIP®) that we use for our forceps and needleholders leads to a secure hold on tissue and needles and furthermore to high wear resistance.



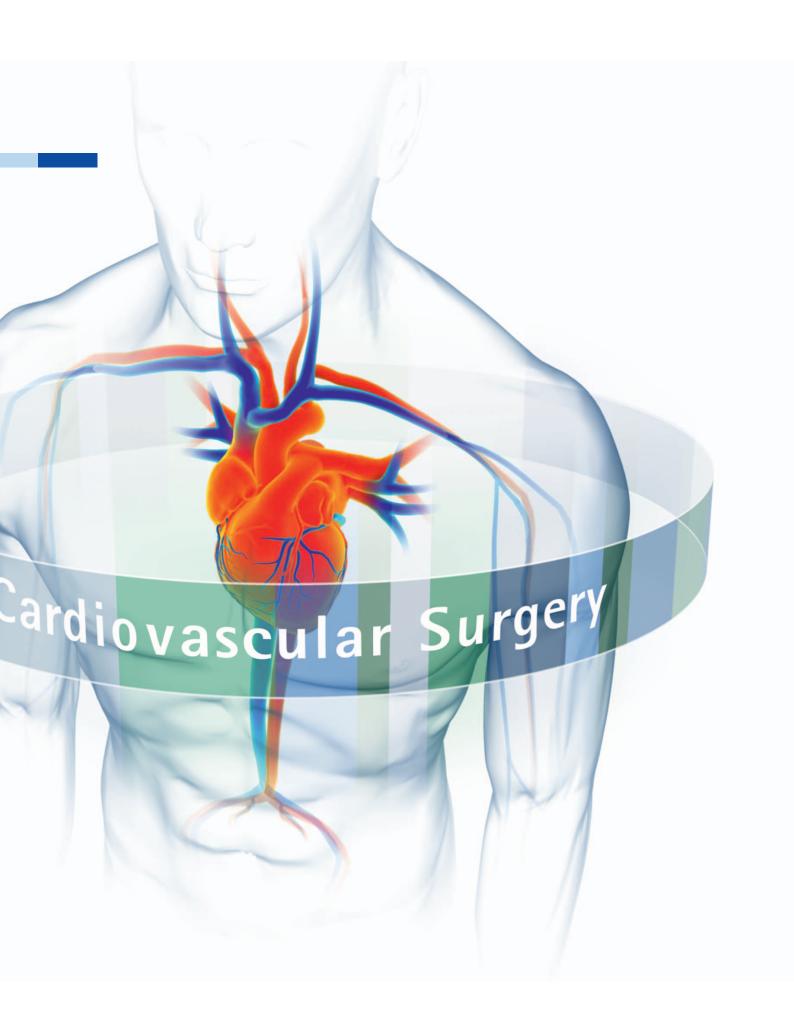
The working surfaces of the jaws of all DIA DUST® instruments are coated with a fine layer of diamond dust. Over 140 years of experience have demonstrated to us which materials to choose for optimum performance. This results in a hard surface with high wear resistance.

Moreover, the structure of the DIA DUST® coating provides a reliable grip for fine needles and sutures, as well as for tissue. Suitable for 2/0 to 10/0 sutures.



Aesculap DUROGRIP® needleholders have jaws with high quality tungsten carbide inserts. A smooth jaw surface as well as a 0.2 mm micro serration guarantee a safe hold on the needle. We recommend carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.





# Think Aesculap.

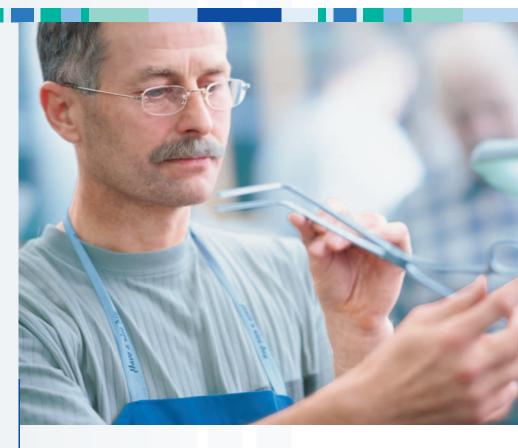
Profound knowledge derives from appreciating the significance of individual pieces of knowledge or experience and fitting them together into a coherent network. A principle B. Braun has been following consistently for more than 160 years, clearly reflected in its corporate claim: "Sharing Expertise". Sharing knowledge across all company divisions creates a broader, sounder knowledge base for everyone involved, resulting in far-sighted, detailed solutions and maximum safety. For the benefit of the patient and in the interests of the user.

With over 130 years of experience in the surgical instrument sector, the Aesculap Division is a competent partner for this interdisciplinary knowledge sharing process.

The Aesculap brand represents a varied spectrum that intelligently and economically combines high quality products with process-orientated services. Aesculap is a reliable and accepted partner for the entire surgical process in the hospital.

Aesculap owes its standing among the best in the business to its employees, who, searching for the best possible solution, are never satisfied with their initial idea. Who repeatedly examine, question and optimise every development.

Thus, Aesculap is much more than a supplier of high precision surgical instruments: a partner who listens carefully and contributes ideas, who understands the customer's needs and requirements and provides for them on a high level. From products to services and seminars for all areas of activity within the hospital.



Think Quality

Think Partnership



I treat contracts like a partnership: based on mutual trust and respect.

Think Partnership. Think Aesculap.

### Think Competence



The Aesculap Information Center in Tuttlingen is unique. Nowhere else in the world could I advise my customers so competently and offer such choice.

Think Competence. Think Aesculap.





Our instruments are in held in high esteem by surgeons all over the world. I know why this is and I make sure it stays that way.

Think Quality. Think Aesculap.

People I talk to can be critical at first: high quality, but still an economically sensible solution? Then I simply let the facts speak for themselves.

Think Economy. Think Aesculap.



Think Economy

#### Think Service



Sometimes it's the minor details we provide that make the process run smoothly. The main thing is, everything works and everyone is happy.

Think Service. Think Aesculap.

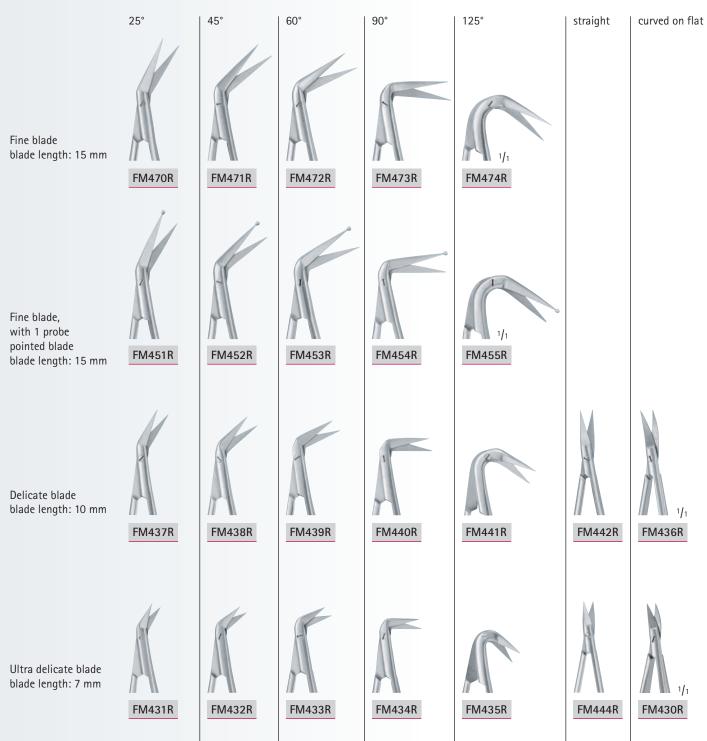
#### Think Innovation



Each new product is like your own baby. You lovingly take care of it until it grows up and leaves home.

Think Innovation. Think Aesculap.





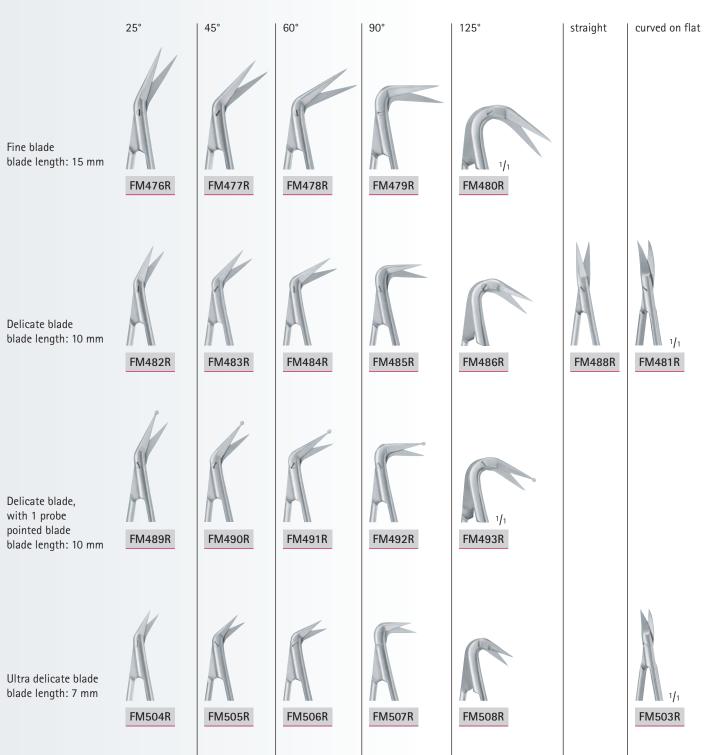




165 mm, 6 <sup>1</sup>/<sub>2</sub>"

Instrument length depends on the blade length or angle





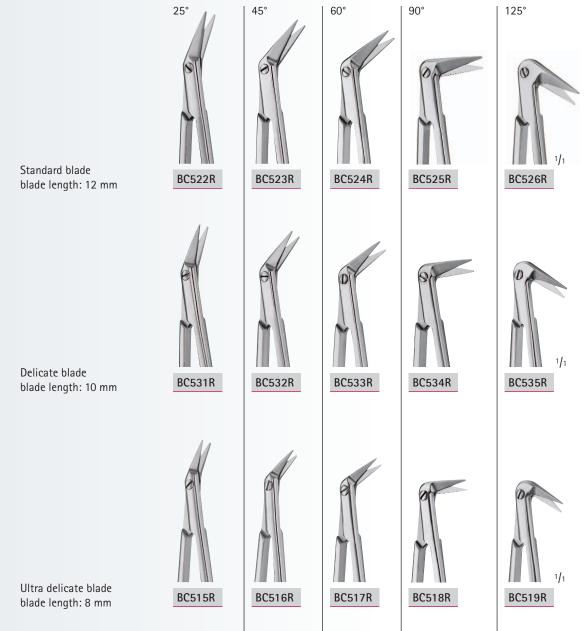




165 mm, 6 <sup>1</sup>/<sub>2</sub>"

Instrument length depends on the blade length or angle









Instrument length depends on the blade length or angle

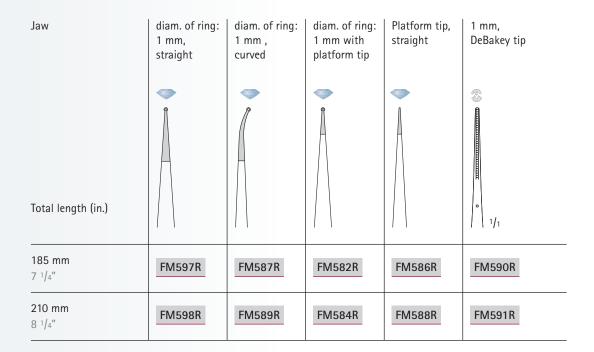


Jaw	diam. of ring: 1 mm, straight	diam. of ring: 1 mm, curved	diam. of ring: 2 mm, straight	Platform tips, straight	Platform tips, curved	1 mm, DeBakey tip
Total length (in.)						0 1/1
150 mm 6"	FM570R	FM571R		FM578R	FM581R	
185 mm 7 <sup>1</sup> / <sub>4</sub> "	FM572R	FM573R	FM579R	FM580R	FM583R	FM592R
210 mm 8 <sup>1</sup> / <sub>4</sub> "	FM574R	FM575R		FM599R	FM585R	FM600R
230 mm 9"	FM576R	FM577R				
250 mm 10"	FM596R	FM595R		FM594R	FM593R	





# Micro Forceps with Round Handle without Counter Balance













# Micro Forceps with Flat Handle







Jaw	1 mm, cross serrated	1 mm, DeBakey tip	diam. of ring: 1 mm, straight	diam. of ring: 1 mm, curved	1 mm, straight
Total length (in.)	000000000000000000000000000000000000000				1/1
180 mm 7"	BD190R	BD191R	BD192R	BD193R	BD194R
200 mm 8"		BD195R			BD196R
<b>250 mm</b> 10"	BD197R				



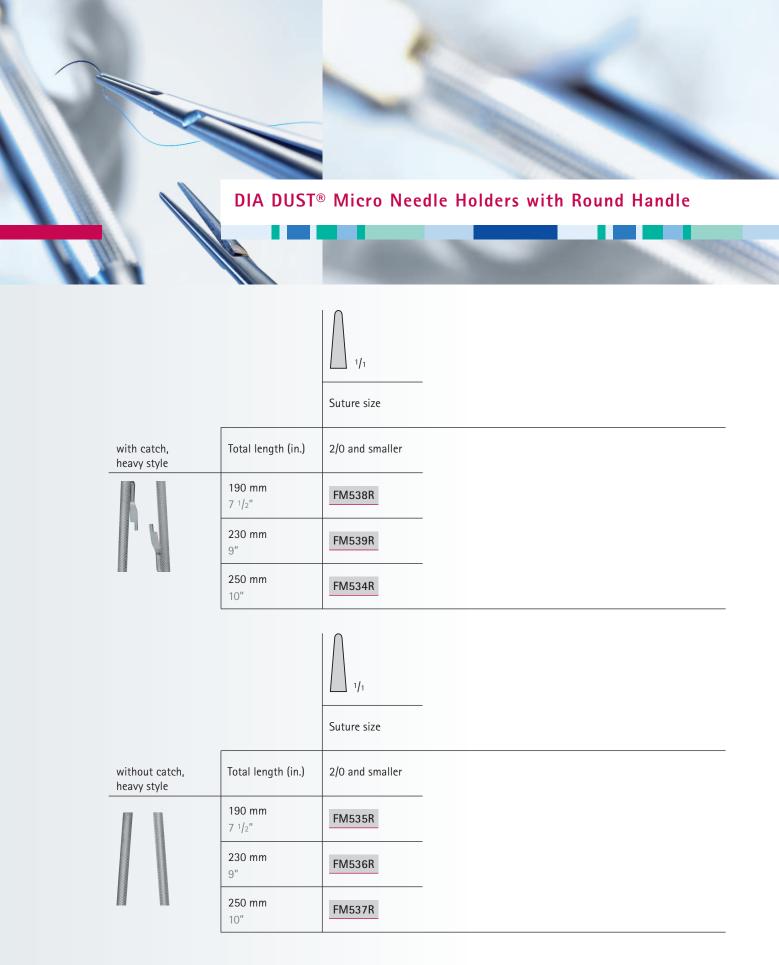


# DIA DUST® Micro Needle Holders with Round Handle

		1/1	1/1	1/1	1/1
		Suture size			
with catch	Total length (in.)	7/0 and smaller	5/0 and smaller	4/0 and smaller	4/0 and smaller
	120 mm 4 <sup>3</sup> / <sub>4</sub> "	FM520R			
	145 mm 5 <sup>3</sup> / <sub>4</sub> "		FM522R		
	160 mm 6 1/4"	FM521R	FM523R		
	185 mm 7 <sup>1</sup> / <sub>4</sub> "	FM563R	FM564R	FM218R	
	210 mm 8 1/4"	FM565R	FM566R	FM228R	FM221R
	<b>230 mm</b> 9"	FM567R	FM568R	FM230R	FM223R
without catch	Total length (in.)	7/0 and smaller	5/0 and smaller		
	120 mm 4 <sup>3</sup> / <sub>4</sub> "	FM524R		-	
	145 mm 5 <sup>3</sup> / <sub>4</sub> "		FM528R	-	
	160 mm 6 1/4"	FM525R	FM529R	-	
	185 mm 7 1/4"	FM526R	FM530R	-	
	210 mm 8 1/4"	FM527R	FM531R	-	
	230 mm 9"	FM532R	FM533R	-	













		Suture size		
with catch	Total length (in.)	7/0 and smaller	5/0 and smaller	
	145 mm 5 <sup>3</sup> / <sub>4</sub> "		FM541R	
	170 mm 6 <sup>3</sup> / <sub>4</sub> "	FM540R		
	185 mm 7 <sup>1</sup> / <sub>4</sub> "		FM542R	
	210 mm 8 1/4"		FM543R	
	230 mm 9"		FM544R	

without catch	Total length (in.)	7/0 and smaller	5/0 and smaller
1	145 mm 5 3/4"		FM546R
	170 mm 6 <sup>3</sup> / <sub>4</sub> "	FM545R	
	185 mm 7 1/4"		FM547R
	210 mm 8 1/4"		FM548R
	<b>230 mm</b> 9"		FM549R







		Suture size
with catch	Total length (in.)	5/0 and smaller
	185 mm 7 1/4"	FM550R
	210 mm 8 1/4"	FM551R
	230 mm 9"	FM552R

		Suture size
without catch	Total length (in.)	5/0 and smaller
11	185 mm 7 1/4"	FM553R
	210 mm 8 1/4"	FM554R
1 1	230 mm 9"	FM555R













#### GLASSER

#### FM560R

Suture size: 5/0 and smaller 125 mm, 5"



#### FM561R

Suture size: 5/0 and smaller 180 mm, 7"





FM236R

with catch Suture size: 5/0 and smaller 215 mm, 8 1/2"

without catch Suture size: 5/0 and smaller 215 mm, 8 1/2"



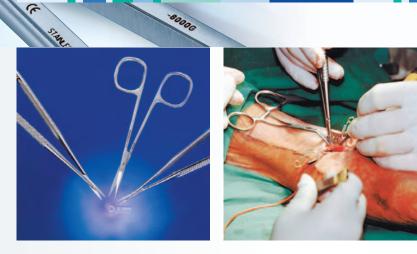




BM300R

195 mm, 7 <sup>3</sup>/<sub>4</sub>"

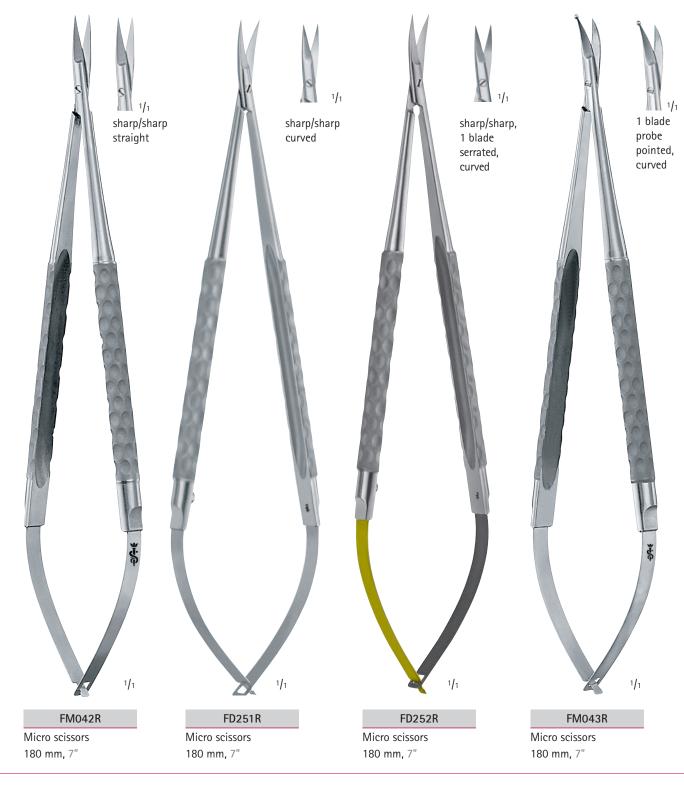
## **Instruments for Shunt Operations**



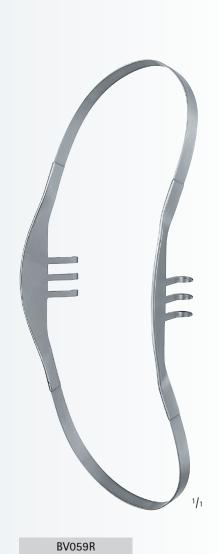
The shunt instruments were developed especially for operations on vessels that are between 4 and 6 mm in diameter. This width is frequently found in dialysis shunt operations and re-operations. These instruments combine the features of conventional instruments and micro instruments. The working tips are larger than usual for instruments of this type, and the micro instrument style handles make the instruments better to use.

The shunt set was developed in cooperation with Prof. Dr. med. Gottfried Müller, M.D. Caritas Krankenhaus Bad Mergentheim Uhlandstrasse 7 97980 Bad Mergentheim







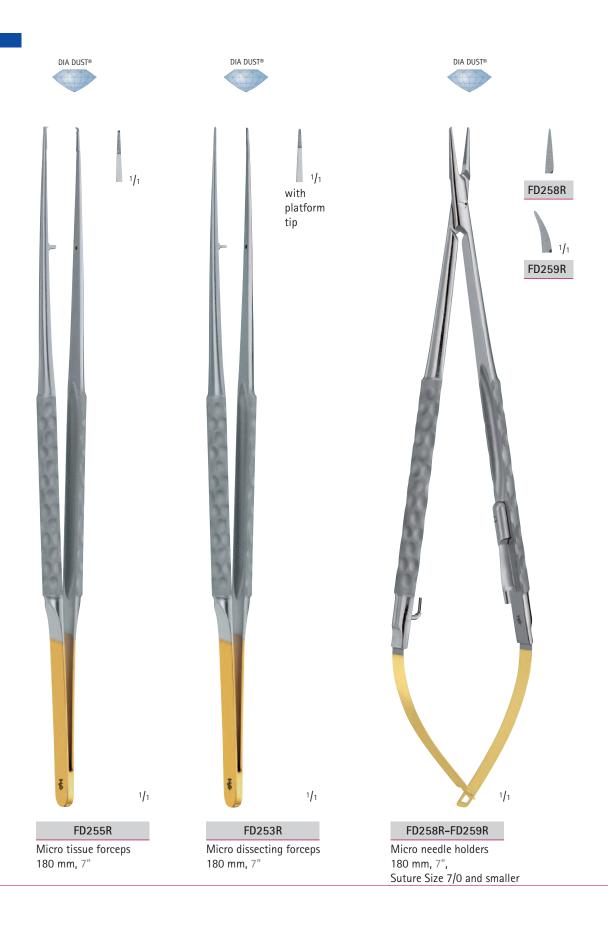


Self-retaining retractor 120 mm, 4 <sup>3</sup>/<sub>4</sub>"

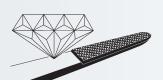


Micro ring forceps 180 mm, 7"









Aesculap needleholders have jaws with tungsten carbide inserts with a choice of structre depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.



FM388R

with catch 180 mm, 7"



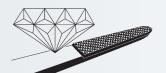
FM390R

with catch 200 mm, 8"





### **DUROGRIP® Micro Needle Holders acc. RYDER**









39

## **DUROGRIP®** Needle Holders with Ergonomic Handle









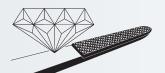
with catch 190 mm, 7  $^{1}/_{2}$ "



#### BM320R

with locking catch 210 mm, 8  $^{1}/_{4}$ "

### **DUROGRIP®** Needle Holders

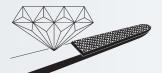








### **DUROGRIP®** Needle Holders















### Micro Needle Holders with Round Handle







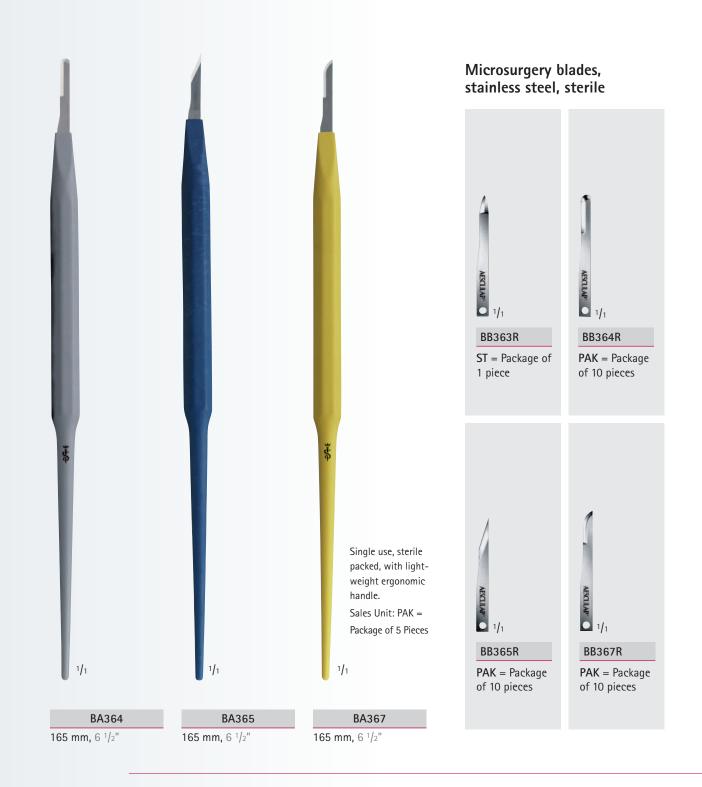
### Micro Needle Holders with Flat Handle







### Microsurgery Scalpels Single Use





# Scalpel Handles for Microsurgery Blades

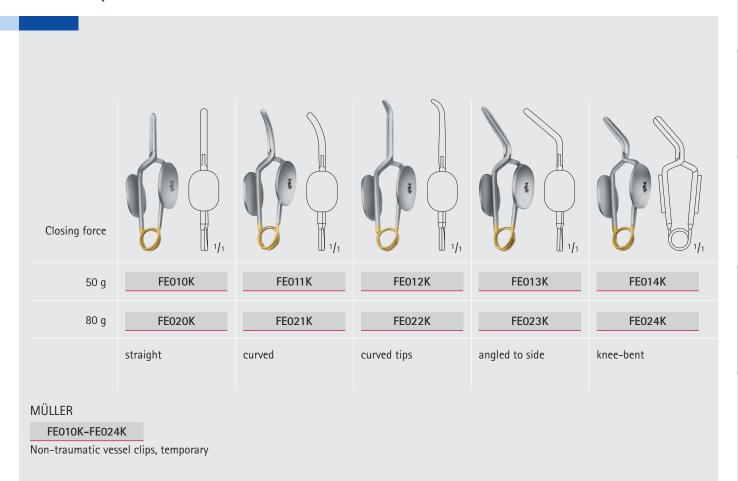


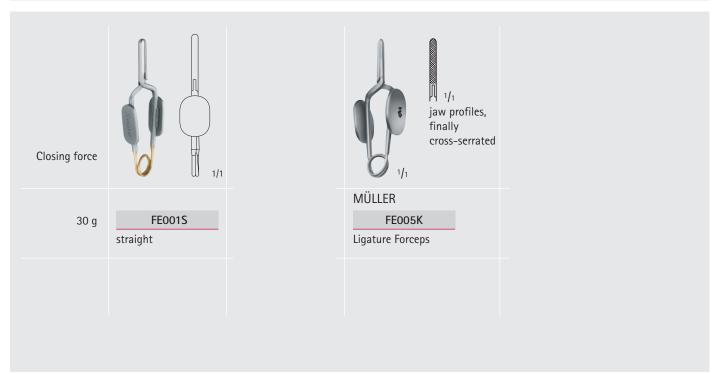
### Nerve- and Vesselhooks





### **Vessel Clips**





### Care and Maintenance of Surgical Instruments

#### Treatment of New Instruments

Brand new instruments must be cleaned before the first sterilization or use. Protective caps and protective films must be removed completely, especially from chisels, raspatories or microsurgical instruments.

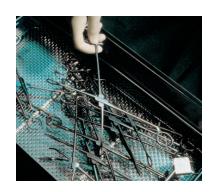
#### After each use

- 1) Clean contaminated instruments as quick as possible.
- 2) Open instruments with a joint to a 90° angle.
- 3) For machine cleaning, place the instrument in a wire basket suitable for the cleaning process, (make sure the cleaning solution and rinse water from the machine come into contact with all surfaces of the instrument).
- 4) Completely dismantle any dismantable instruments.
- 5) Preferably dry disposal.
- 6) For wet disposal, always use an active cleaning disinfectant. Rinse the instrument thoroughly with clear, flowing water before machine cleaning and disinfecting.
- 7) If necessary, treat with ultrasound according to the manufacturer's instructions:
  - for effective mechanical support during manual cleaning
  - for pre-treatment of instruments with dried-on contaminent before machine cleaning
- If cleaning manually or in a machine: Always follow manufacturer's instructions for detergents and other cleaning solutions.

#### Manual Cleaning / Disinfection

- Place instruments into a suitable disinfectant with active cleaning properties so that all surfaces, inner cavities, lumens and openings come into contact with the solution.
   Follow the disinfectant manufacturer's instructions.
- After chemical disinfection, always rinse thoroughly with clear, flowing water. Follow the instructions provided by the manufacturer of disinfectant.
- Remove any dirt still clinging to the instrument with a soft synthetic brush.
   Do not use a scouring or metal brush.
- 4) Clean any lumens and conduits with soft, round, synthetic brushes. Please note - the lumen and the brush must have the same diameter.
- 5) Final rinsing should be done with distilled or deionized water.
- 6) Dry instrument with an absorbent, soft and lint-free cloth.
- 7) Dry lumens and conduits with compressed air.







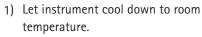


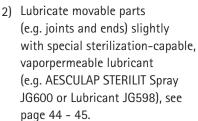


# Machine Cleaning / Disinfection

- Select the program according to the material (e.g. stainless instrument steel, aluminium) of the instrument to be cleaned.
   Follow the machine manufacturer's instructions.
- 2) Final rinsing to be done with deionized water.
- 3) Leave sufficient time for drying.
- 4) Remove the instrument from the machine immediately after the program is done.







- After each cleaning and disinfection process, check the instrument to make sure it is clean, it functions properly and it has not suffered any damage, (e.g. bent, broken, fractured or worn parts).
- 4) Discard any damaged and defective instruments and replace.

#### Storage

- Place instruments with fine working ends and/or microsurgery instruments in a suitable storage rack.
- 2) Secure instruments with lock in the first detent.

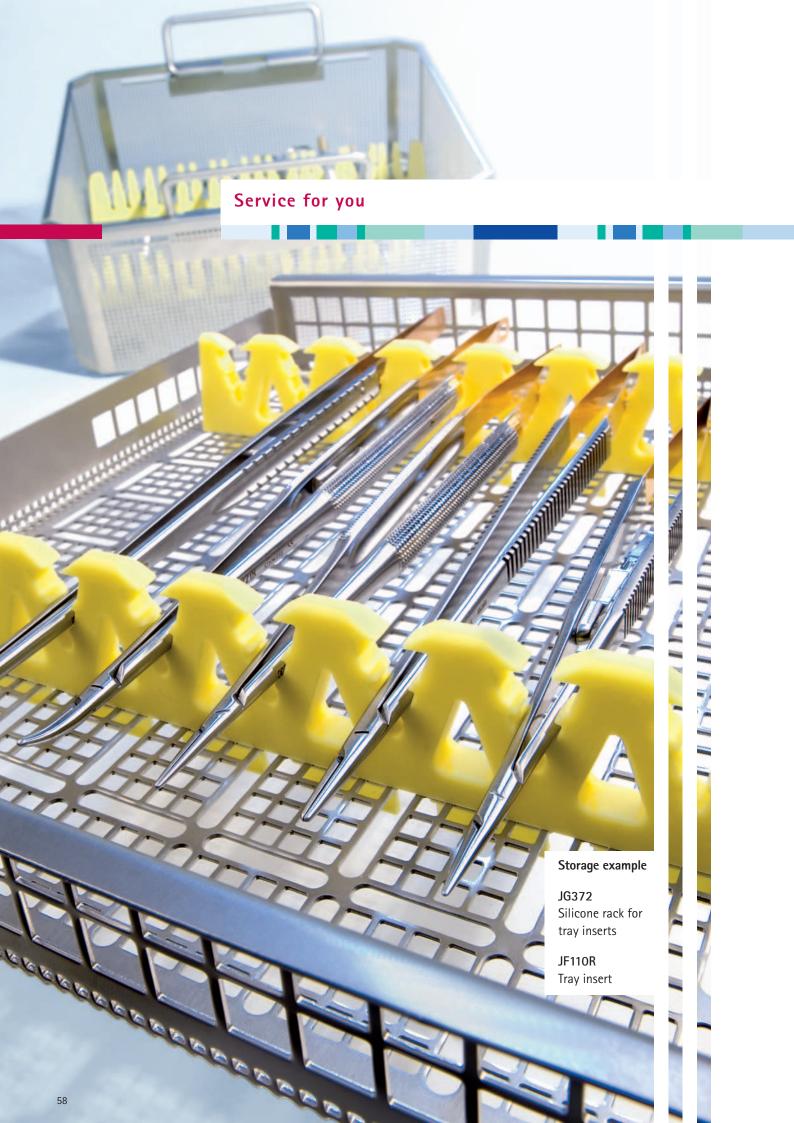
#### **Sterilization**

- 1) To steam sterilize, proceed as follows:

  Steam sterilization must be carried out according to a validated steam sterilisation process (e.g. with a sterilizer meeting the specifications of EN 285 and validated according to EN 554). When using the fractional vacuum method, use the 134°C/2 bar program for sterilisation with a minimum holding time of 5 minutes.
- 2) Where possible, sterilize instruments in the first catch.











For more information please also ask for our catalog C053: "Instruments for Cardiovascular and Thoracic Surgery"



C092
Aesculap Noir
Dissecting Siccors



C239 TITANIUM Microinstruments for Cardiac and Vascular Surgery



**C251**BipoJet,
Bipolare Dissecting Scissors



**C793** Vega System

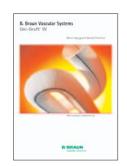


C468 Titanium Ligating Clips



C819 Aesculap universal Storage System

**6050161** ProVena



**6050151**UniGraft W Vascular Prosthesis



0310

Motors





BA365         52         BD195R         18         BM074R         44           BA367         52         BD196R         18         BM075R         44           BC197R         18         BM076R         44           BB045T         53         BD200R         17         BM300R         31           BB046R         53         BD201R         17         BM300R         30           BB052R         53         BM001R         37         BM302R         30           BB365R         52         BM004R         37         BM310R         40           BB366R         52         BM005R         37         BM310R         41           BB366R         52         BM005R         37         BM310R         41           BB366R         52         BM025R         43         BM32R         30           BB367R         52         BM025R         43         BM32R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC516R         10         BM035R         42         BM562R	BA364	52	BD194R	18	BM064R	43
BD197R         18         BM076R         44           BB04ST         53         BD200R         17         BM184R         45           BB04GR         53         BD201R         17         BM300R         31           BB04GR         53         BM001R         37         BM301R         30           BB054R         53         BM002R         37         BM310R         40           BB363R         52         BM004R         37         BM311R         41           BB363R         52         BM005R         37         BM311R         41           BB366R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM037R         42         BM560R         48           BC515R         10         BM033R         43         BM562R         48           BC518R         10         BM034R         43         BM563R         50           BC518R         10         BM036R         42         BV59R         34           BC52R         10         BM036R         42         BV59R	BA365	52	BD195R	18	BM074R	44
BB045T         53         BD200R         17         BM184R         45           BB046R         53         BD201R         17         BM300R         31           BB048R         53         BM001R         37         BM302R         30           BB052R         53         BM002R         37         BM310R         40           BB363R         52         BM004R         37         BM31R         41           BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM026R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM032R         42         BM560R         48           BC515R         10         BM032R         42         BM560R         48           BC518R         10         BM034R         43         BM563R         50           BC519R         10         BM035R         42         BM564R         50           BC52R         10         BM037R         42         BV59R         34           BC522R         10         BM038R	BA367	52	BD196R	18	BM075R	44
BB046R         53         BD201R         17         BM300R         31           BB048R         53         BM001R         37         BM302R         30           BB054R         53         BM002R         37         BM310R         40           BB363R         52         BM004R         37         BM311R         41           BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM02FR         43         BM32FR         30           BB367R         52         BM02FR         43         BM32FR         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM032R         42         BM560R         48           BC517R         10         BM034R         43         BM562R         48           BC518R         10         BM035R         42         BM563R         50           BC519R         10         BM035R         42         BM564R         50           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM047R			BD197R	18	BM076R	44
BB048R         53         BM001R         37         BM301R         30           BB052R         53         BM002R         37         BM310R         40           BB363R         52         BM004R         37         BM311R         41           BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM0327R         43         BM328R         30           BC516R         10         BM033R         42         BM560R         48           BC517R         10         BM033R         43         BM562R         48           BC518R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC521R         10         BM037R         42         BV59R         34           BC522R         10         BM040R         47         FD045R         51           BC523R         10         BM044R	BB045T	53	BD200R	17	BM184R	45
BB052R         53         BM001R         37         BM302R         30           BB054R         53         BM002R         37         BM310R         40           BB363R         52         BM005R         37         BM311R         41           BB366R         52         BM005R         37         BM320R         41           BB366R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM035R         42         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM044R         39         FD045R         51           BC531R         10         BM044R	BB046R	53	BD201R	17	BM300R	31
BB054R         53         BM002R         37         BM310R         40           BB363R         52         BM004R         37         BM311R         41           BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM32R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM035R         42         BM564R         50           BC522R         10         BM037R         42         BV59R         34           BC523R         10         BM04R         39         FD045R         51           BC525R         10         BM04R         39         FD046R         51           BC531R         10         BM04R         <	BB048R	53			BM301R	30
BB363R         52         BM004R         37         BM311R         41           BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM02FR         43         BM32FR         30           BB367R         52         BM02FR         43         BM32RR         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC516R         10         BM033R         43         BM563R         50           BC518R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM037R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC522R         10         BM04R         39         FD045R         51           BC525R         10         BM04R         39         FD046R         51           BC531R         10         BM04R	BB052R	53	BM001R	37	BM302R	30
BB364R         52         BM005R         37         BM320R         41           BB365R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM033R         43         BM563R         50           BC518R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM563R         50           BC518R         10         BM036R         42         BM563R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC524R         10         BM044R         39         FD045R         51           BC525R         10         BM045R         39         FD046R         51           BC531R         10         BM047R	BB054R	53	BM002R	37	BM310R	40
BB365R         52         BM025R         43         BM325R         30           BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         BV059R         34           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC531R         10         BM046R         39         FD076R         50           BC531R         10         BM054R         39         FD079R         50           BC533R         10         BM051R	BB363R	52	BM004R	37	BM311R	41
BB367R         52         BM026R         43         BM327R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         BV059R         34           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC531R         10         BM047R         39         FD048R         51           BC532R         10         BM047R         39         FD076R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM054R	BB364R	52	BM005R	37	BM320R	41
BM027R         43         BM328R         30           BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         BV059R         34           BC524R         10         BM048R         42         BV059R         34           BC525R         10         BM044R         39         FD045R         51           BC526R         10         BM045R         39         FD046R         51           BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM057R         45         FD080R         51           BC533R         10         BM051R         45         FD081R	BB365R	52	BM025R	43	BM325R	30
BC515R         10         BM032R         42         BM560R         48           BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         42         BV059R         34           BC524R         10         BM048R         42         42         BV059R         34           BC525R         10         BM048R         42         42         44	BB367R	52	BM026R	43	BM327R	30
BC516R         10         BM033R         43         BM562R         48           BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         BV059R         34           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD076R         50           BC531R         10         BM047R         39         FD076R         50           BC532R         10         BM051R         45         FD080R         51           BC533R         10         BM051R         45         FD081R         51           BC534R         10         BM054R         38         FD230R         48           BC535R         10         BM056R			BM027R	43	BM328R	30
BC517R         10         BM034R         43         BM563R         50           BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42         BV059R         34           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         42           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD076R         50           BC531R         10         BM046R         39         FD079R         50           BC532R         10         BM051R         45         FD080R         51           BC533R         10         BM051R         45         FD081R         51           BC533R         10         BM054R         38         FD230R         48           BC535R         10         BM054R         38         FD231R         48           BD190R         18         BM056R         38	BC515R	10	BM032R	42	BM560R	48
BC518R         10         BM035R         42         BM564R         50           BC519R         10         BM036R         42	BC516R	10	BM033R	43	BM562R	48
BC519R         10         BM036R         42           BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42         FD045R         51           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD076R         50           BC531R         10         BM047R         39         FD079R         50           BC532R         10         BM051R         45         FD080R         51           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BC535R         10         BM056R         38         FD231R         48           BD190R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD24	BC517R	10	BM034R	43	BM563R	50
BC522R         10         BM037R         42         BV059R         34           BC523R         10         BM038R         42	BC518R	10	BM035R	42	BM564R	50
BC523R         10         BM038R         42           BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD048R         51           BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BC535R         10         BM055R         38         FD231R         48           BD190R         18         BM056R         38         FD231R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC519R	10	BM036R	42		
BC524R         10         BM040R         47         FD045R         51           BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD048R         51           BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BD190R         18         BM056R         38         FD231R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC522R	10	BM037R	42	BV059R	34
BC525R         10         BM044R         39         FD046R         51           BC526R         10         BM045R         39         FD076R         51           BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BD190R         18         BM056R         38         FD231R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC523R	10	BM038R	42		
BC526R         10         BM045R         39         FD048R         51           BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BD190R         18         BM055R         38         FD231R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC524R	10	BM040R	47	FD045R	51
BC531R         10         BM046R         39         FD076R         50           BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BD190R         18         BM056R         38         FD231R         48           BD191R         18         BM057R         38         FD232R         48           BD192R         18         BM058R         38         FD240R         48	BC525R	10	BM044R	39	FD046R	51
BC532R         10         BM047R         39         FD079R         50           BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BD190R         18         BM055R         38         FD231R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC526R	10	BM045R	39	FD048R	51
BC533R         10         BM051R         45         FD080R         51           BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BM055R         38         FD231R         48           BD190R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC531R	10	BM046R	39	FD076R	50
BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BM055R         38         FD231R         48           BD190R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC532R	10	BM047R	39	FD079R	50
BC534R         10         BM052R         45         FD081R         51           BC535R         10         BM054R         38         FD230R         48           BM055R         38         FD231R         48           BD190R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC533R		BM051R	45	FD080R	51
BM055R         38         FD231R         48           BD190R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC534R		BM052R	45	FD081R	51
BD190R         18         BM055R         38         FD231R         48           BD191R         18         BM056R         38         FD232R         48           BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BC535R		BM054R	38	FD230R	48
BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48			BM055R	38	FD231R	48
BD191R         18         BM057R         38         FD233R         48           BD192R         18         BM058R         38         FD240R         48	BD190R		BM056R	38	FD232R	48
	BD191R		BM057R	38	FD233R	48
BD193R 18 BM063R 43 FD241R 48	BD192R	18	BM058R	38	FD240R	48
	BD193R	18	BM063R	43	FD241R	48

### Index

FD242R	49
FD243R	49
FD244R	49
FD245R	49
FD246R	49
FD247R	49
FD251R	33
FD252R	33
FD253R	35
FD255R	35
FD258R	35
FD259R	35
FD396R	54
FD397R	54
FD398R	54
FD399R	54
FE001S	55
FE005K	55
FE010K	55
FE011K	55
FE012K	55
FE013K	55
FE014K	55
FE020K	55
FE021K	55
FE022K	55
FE023K	55
FE024K	55
FM042R	33
FM043R	33
FM047R	34
FM053R	16

FM054R	16
FM063R	16
FM218R	20
FM221R	20
FM223R	20
FM228R	20
FM230R	20
FM236R	29
FM276R	29
FM388R	36
FM390R	36
FM392R	49
FM398R	49
FM430R	6
FM431R	6
FM432R	6
FM433R	6
FM434R	6
FM435R	6
FM436R	6
FM437R	6
FM438R	6
FM439R	6
FM440R	6
FM441R	6
FM442R	6
FM444R	6
FM451R	6
FM452R	6
FM453R	6
FM454R	6
FM455R	6
FM470R	6
FM471R	6

FM472R	6
FM473R	6
FM474R	6
FM476R	8
FM477R	8
FM478R	8
FM479R	8
FM480R	8
FM481R	8
FM482R	8
FM483R	8
FM484R	8
FM485R	8
FM486R	8
FM488R	8
FM489R	8
FM490R	8
FM491R	8
FM492R	8
FM493R	8
FM503R	8
FM504R	8
FM505R	8
FM506R	8
FM507R	8
FM508R	8
FM520R	20
FM521R	20
FM522R	20
FM523R	20
FM524R	20
FM525R	20
FM526R	20
FM527R	20



FM528R	20
FM529R	20
FM530R	20
FM531R	20
FM532R	20
FM533R	20
FM534R	22
FM535R	22
FM536R	22
FM537R	22
FM538R	22
FM539R	22
FM540R	24
FM541R	24
FM542R	24
FM543R	24
FM544R	24
FM545R	24
FM546R	24
FM547R	24
FM548R	24
FM549R	24
FM550R	26
FM551R	26
FM552R	26
FM553R	26
FM554R	26
FM555R	26
FM560R	28
FM561R	28
FM563R	20
FM564R	20
FM565R	20
FM566R	20

EME 07D	00
FM567R	20
FM568R	20
FM570R	12
FM571R	12
FM572R	12
FM573R	12
FM574R	12
FM575R	12
FM576R	12
FM577R	12
FM578R	12
FM579R	12
FM580R	12
FM581R	12
FM582R	14
FM583R	12
FM584R	14
FM585R	12
FM586R	14
FM587R	14
FM588R	14
FM589R	14
FM590R	14
FM591R	14
FM592R	12
FM593R	12
FM594R	12
FM595R	12
FM596R	12
FM597R	14
FM598R	14
FM599R	12
FM600R	12

58
58



# **AESCULAP**®



#### Aesculap AG

Am Aesculap-Platz 78532 Tuttlingen Germany

Phone +49 7461 95-0 Fax +49 7461 95-2600

www.aesculap.de

All rights reserved. Technical alterations are possible. This leaflet may be used for no other purposes than offering, buying and selling of our products. No part may be copied or reproduced in any form. In the case of misuse we retain the rights to recall our catalogues and pricelists and to take legal actions.

Brochure No. C61702 0509/1.0/3