MÜNSTER Retraction System

The System

“One for All”

One system for all indications in

- Visceral surgery
- Urology
- Gynaecology
- Abdominal vascular surgery

The multiplicity of different frames, clamps, rods and retractors permits an individually adjustable retraction system which corresponds to the needs of the customers.

- universal  •  safe  •  easy to use  •
Closed frame

Open frame
### Elements of the closed frame system

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td><img src="image1" alt="Frame Diagram" /></td>
</tr>
<tr>
<td>Frame extension</td>
<td><img src="image2" alt="Frame Extension Diagram" /></td>
</tr>
<tr>
<td>Clamps</td>
<td><img src="image3" alt="Clamps Diagram" /></td>
</tr>
<tr>
<td>Rods</td>
<td><img src="image4" alt="Rods Diagram" /></td>
</tr>
<tr>
<td>Retractor blades</td>
<td><img src="image5" alt="Retractor Blades Diagram" /></td>
</tr>
</tbody>
</table>
Elements of the open frame system

<table>
<thead>
<tr>
<th>Elements</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td><img src="image" alt="Frame" /></td>
</tr>
<tr>
<td>Frame holder</td>
<td><img src="image" alt="Frame holder" /></td>
</tr>
<tr>
<td>Clamps</td>
<td><img src="image" alt="Clamps" /></td>
</tr>
<tr>
<td>Rods</td>
<td><img src="image" alt="Rods" /></td>
</tr>
<tr>
<td>Retractor blades</td>
<td><img src="image" alt="Retractor blades" /></td>
</tr>
</tbody>
</table>
MÜNSTER Retraction System

Frame, round

BV814R Abdominal frame I, detachable, 238 x 180 mm
BV815R Abdominal frame II, detachable, 238 x 270 mm
BV817R Abdominal frame III, detachable, 408 x 350 mm

BV816R Vaginal frame, 20° angled, 270 x 200 mm, not detachable

Frame extensions

BV819R Frame extension rod, 100 mm (1 Pair)
BV821R Frame extension rod, 250 mm (1 Pair)
BV820R Frame extension rod, curved, 250 mm (1 Pair)
BV845R  V-shaped sickle frame (1 Pair)

BV846R  U-shaped sickle frame (1 Pair)

BV844R  Frame holder
Clamps

BV822R  Connecting clamp for notch rods

BV837R  Connecting clamp, rotatable, without ratchet mechanism

BV838R  Connecting clamp, with latching mechanism for octangular notch rods
Round notch rods
- BV825R 150 mm
- BV826R Extension notch rod, 100 mm
- BV827R End part, 60 mm
- BV834R with joint, 200 mm

Octangular notch rods
- BV840R 220 mm
- BV839R 120 mm
- BV833R with joint and locking screw, 220 mm

BV828R Rod, round, smooth, 200 mm

BV835R Adapter for retractor blades with ball snap closure (KSV)

FG 290R Wrench for fixation of the retractor blades on the rods BV840R, BV839R, BV833R and BV834R
The combination of the connecting clamp BV838R with the octagonal locking rods BV839R and BV840R permits locking of the retractors and prevents rotation.
Retractor blades

BV961R  Abdominal retractor blade, size I, 62 x 67 mm
BV962R  Abdominal retractor blade, size II, 80 x 80 mm

BV945R  Abdominal retractor blade, 50 x 90 mm
BV946R  Abdominal retractor blade, 50 x 105 mm

BV947R  Retractor blade KELLY, 63 x 50 mm
BV948R  Retractor blade KELLY, 70 x 63 mm

BV972R  Abdominal retractor blade, 100 x 100 mm
BV973R  Abdominal retractor blade, 100 x 120 mm
Retractor blades with ball snap closure (KSV)

- BV555R Retractor blades (Pair), 48 x 59 mm, KSV
- BV556R Retractor blades (Pair), 58 x 80 mm, KSV
- BV557R Retractor blades (Pair), 72 x 84 mm, KSV
- BV551R Retractor blades (Pair), 37 x 62 mm, KSV
- BV552R Retractor blades (Pair), 37 x 80 mm, KSV
- BV553R Retractor blades (Pair), 37 x 98 mm, KSV
- BV558R Retractor blades (Pair), 59 x 80 mm, KSV
- BV570R Thorax retractor blade, 68 x 56 mm
- BV959R Y-Bladder spatula, 170 x 73 mm, KSV
- BV835R Adapter for ball snap closure blade, see page 9
Retractor blades

- BV950R Retractor blade MIKULICZ, 120 x 50 mm
- BV951R Retractor blade MIKULICZ, 155 x 50 mm
- BV952R Liver retractor, 140 x 85 mm
- BV953R Bladder spatula, 115 x 85 mm, 30° angled
- BT625R Liver retractor, 125 x 140 mm
MÜNSTER Retraction System

Retractor blades

BV949R Retractor blade KELLY, 150 x 39 mm

BV965R Retractor blade KELLY, 220 x 40 mm
BV966R Retractor blade KELLY, 220 x 70 mm

BV967R Retractor blade KELLY, 220 x 70 mm

BV964R Vaginal retractor posterior blade, 115 x 25 mm
BV968R Retractor blade, 220 x 25 mm
### Retractor blades

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>BV954R</td>
<td>Abdominal spatula, malleable, 220 x 30 mm</td>
<td></td>
</tr>
<tr>
<td>BV955R</td>
<td>Abdominal spatula, malleable, 220 x 40 mm</td>
<td></td>
</tr>
<tr>
<td>BV956R</td>
<td>Abdominal spatula, malleable, 220 x 50 mm</td>
<td></td>
</tr>
<tr>
<td>BV957R</td>
<td>Abdominal spatula, malleable, 220 x 85 mm</td>
<td></td>
</tr>
<tr>
<td>BV960R</td>
<td>Retractor blade DEAVER, 85 x 25 mm, Fig. 2½</td>
<td></td>
</tr>
<tr>
<td>BV963R</td>
<td>Vagina retractor blade, lateral blade, 75 x 25 mm</td>
<td></td>
</tr>
<tr>
<td>BV958R</td>
<td>Retractor blade HARRINGTON, 127 x 62 mm</td>
<td></td>
</tr>
<tr>
<td>BV836R</td>
<td>Handle for retractor blades, with screw thread</td>
<td></td>
</tr>
</tbody>
</table>
MÜNSTER Retraction System

OR-Table Fixation

BV829R  Holding arm for abdominal frame

RT092R  Double fixation element for connecting BV829R or BV842R with RT069

RT069R  Rod with adapter for assembling at the OR-Table with the dimensions:
            Width 9-10 mm x Height 25-35 mm
BV843R Fixation element for abdominal frames permits safe horizontal fixation of the abdominal frames.

BV842R Holding arm with joint, for abdominal frame

RT092R Double fixation element for connecting BV829R or BV842R with RT069

RT069R Rod with adapter for assembling at the OR-Table with the dimensions: Width 9-10 mm x Height 25-35 mm

BV843R Fixation element for abdominal frames permits safe horizontal fixation of the abdominal frames.
**GNAUERT Frame for Upper Abdomen**

**BV848R**  
GNAUERT Frame for upper abdomen, consisting of:  
1. Frame (horizontal)  
2. Vertical rods

Additionally required (please order separately):  
2. RT090R  
Connecting clamps

**BV827R**  
Notch rod end part

**BV837R**  
2 Clamps

Round notch rods (BV825R or BV826R)

**BV835R**  
Coupling piece

Retractor blades  
(recommended BV555R, BV557R, BV558R, BV570R)

Set up example with two clamps BV837R

**BV827R**  
Notch rod end part

**BV838R**  
Clamp

Round notch rods (BV825R or BV826R)

Retractor blades  
(recommended BV945R, BV946R)

Set up example with one clamp BV838R
ROCHARD-OR-Table Fixation

Accessories for storage

**BT708R** Mounting frame for fastening to both sides of the lateral bars of the operating table providing more stability. Easy dismantling for sterilization.

**BV823R** ROCHARD Adapter

**BV822R** Connecting clamp, for round notch rods

**BV825R** Round notch rod, 150 mm

**BV828R** Round rod, 200 mm, smooth

**BV831R** Wire basket, 540 x 253 x 100 mm, for storing the retractor blades

**BV832R** Wire basket, 540 x 253 x 50 mm, for storing abdominal frames, notch rods and connecting clamps