

CATALOGUE



# GRAY SURGICAL

Precision Is Our Business

Manufacturing Quality  
Retraction Systems For  
The Specialist Surgeon



GS



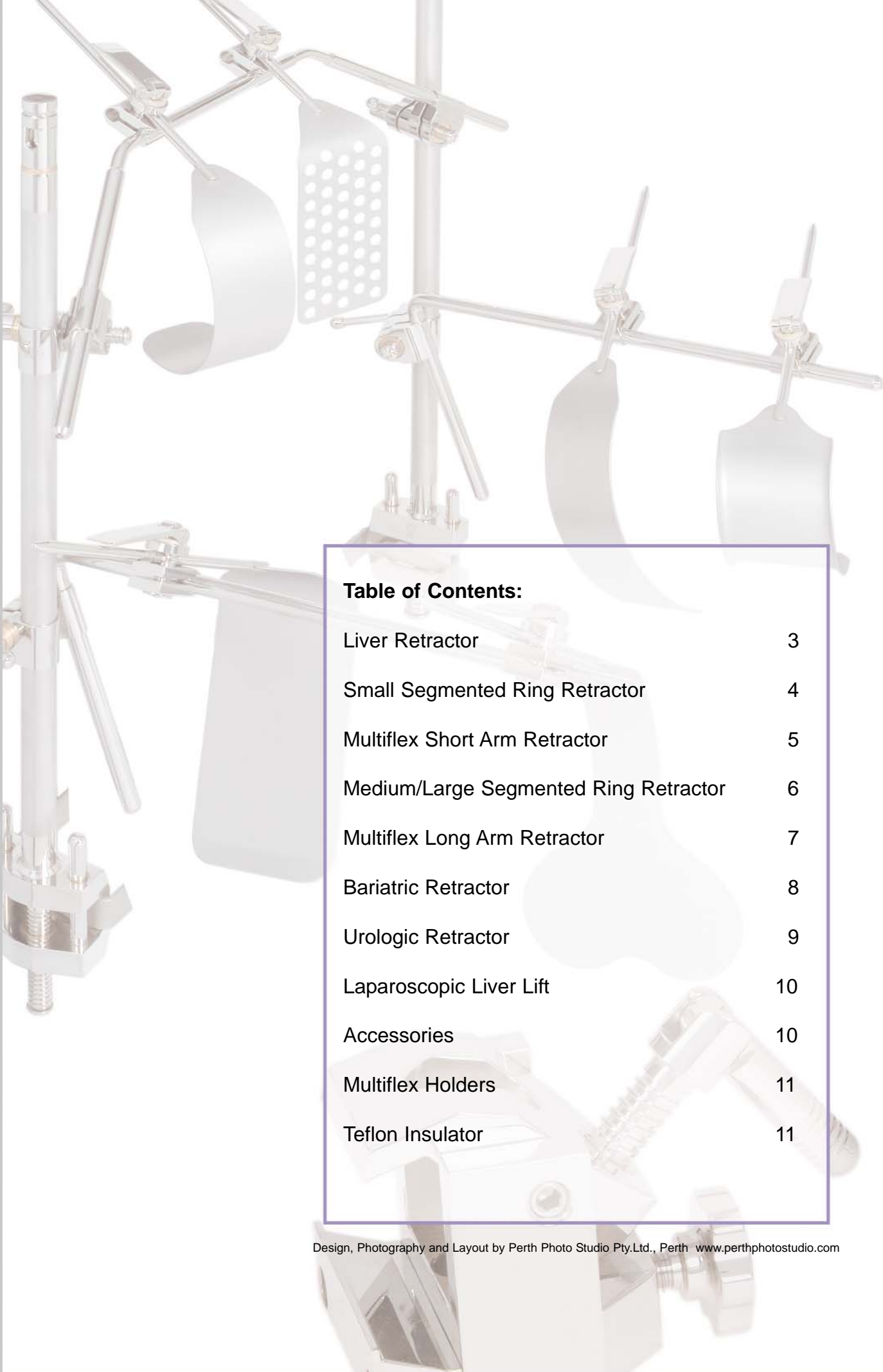
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# LIVER RETRACTOR

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**Risers**  
(Note: 2 per system required)  
RI01



**Upper Hoop**  
(Note: Includes joiners & knobs)  
UH01



**Lower Hoop**  
LH01



**Table Clamp**  
(Note: 2 per system required)  
LT01



**Wedge**  
(Note: 6 per system required)  
WD01



**Malleable Perforated**

- L31 6 x 14 cm
- L32 6 x 17 cm
- L33 8 x 16 cm
- L34 8 x 20 cm  
(available with swivel head upon request)

**Malleable Finger**

- LMF01 6 x 11cm  
(available with swivel head upon request)

**Harrington Malleable**

- L88 10 x 15 cm
- L89 12.5 x 19 cm  
(available with swivel head upon request)

**Mayo**

- L01 4 x 5 cm
- L02 6 x 8 cm
- L03 8 x 10 cm

**Hoe**

- L21 4 x 7.5 cm
- L22 6 x 11 cm
- L23 8 x 11 cm

# SMALL SEGMENTED RING RETRACTOR



**Table Clamp**  
GT01

**Horizontal Arm With Single Cam**

GHA01

Horizontal Arm With Double Cam (OHA01)  
can also be used.



**Coupling Clamp**  
CC01



**Small Segmented Ring**

GA01 - 25 x 25 cm - 11mm Diameter  
GA01I - 25 x 25 cm - 1/2" Diameter  
(internal ring measurements)



**Easy Clamps**

EC01 for: 11mm frame and 8mm blade handles  
EC02 for: 1/2" frame and 8mm blade handles  
EC03 for: 1/2" frame and 3/8" blade handles  
(6 clamps in total recommended)

## Mini Blades may be used for this system

- o Blades can be made to individual specification upon request.
- o All blade dimensions are width x working depth.



**Rake**

R009 2 x 2.5 cm mini  
R010 3.5 x 2.5 cm mini



**Claw**

C009 2 x 1.5 cm mini  
C010 2 x 2.5 cm mini  
C011 3.5 x 1.5 cm mini  
C012 3.5 x 2.5 cm mini



**Finger**

F009 1 x 2 cm mini  
F010 1 x 3 cm mini



**Hoe**

H011 2 x 2 cm mini  
H012 2 x 3.5 cm mini  
H013 3.5 x 2 cm mini

# MULTIFLEX SHORT ARM RETRACTOR



**Table Clamp**  
GT01



**Horizontal Arm With Double Cam**  
OHA01



**Coupling Clamp**  
CC01



**Short Arms**  
V01 - 25cm Length 11mm Diameter  
V01I - 25cm Length 1/2" Diameter  
(Note: 2 required for system)



**Easy Clamps**  
EC01 for: 11mm arms and 8mm blade handles  
EC02 for: 1/2" arms and 8mm blade handles  
EC03 for: 1/2" arms and 3/8" blade handles  
(6 clamps in total recommended)

## Mini Blades may be used for this system

- o All mini blade handles are 8mm diameter.
- o Mini blades are swivel in design.



**Mayo**  
Y009 2 x 2 cm mini  
Y010 3 x 2 cm mini



**Kelly**  
K009 2 x 2 cm mini  
K010 2 x 3 cm mini  
K011 3 x 2 cm mini  
K012 3 x 4 cm mini



**Deaver**  
D057 1 x 2 cm mini  
D058 1 x 2.75 cm mini  
D059 2 x 2 cm mini  
D060 2 x 3 cm mini

**Standard blades may also be used with these systems.**

**All standard blades are shown on the next page.**

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# MED/LARGE SEGMENTED RING RETRACTOR



**Table Clamp**  
GT01

**Horizontal Arm With Single Cam**  
GHA01  
Horizontal Arm With Double Cam (OHA01)  
can also be used.



**Medium Segmented Ring**  
GA02 - 33 x 30cm - 11mm Diameter  
GA02I - 33 x 30cm - 1/2" Diameter  
(internal ring measurements)



**Coupling Clamp**  
CC01

**Large Segmented Ring**  
GA03 - 33 x 40cm - 11mm Diameter  
GA03I - 33 x 40cm - 1/2" Diameter  
(internal ring measurements)

**Easy Clamps**  
EC01 for: 11mm frame and 8mm blade handles  
EC02 for: 1/2" frame and 8mm blade handles  
EC03 for: 1/2" frame and 3/8" blade handles  
(6 clamps in total recommended)

## Standard blades are used for this system



**Rake**  
R011 (RO11I) 4 x 4 cm  
R012 (RO12I) 6 x 4 cm  
R013 (RO13I) 6 x 6 cm  
R014 (RO14I) 6 x 8 cm



**Mayo**  
Y012 (Y012I) 4 x 4 cm  
Y013 (Y013I) 6 x 5 cm  
Y014 (Y014I) 8 x 6 cm  
Y015 (Y015I) 8 x 8 cm  
Y016 (Y016I) 8 x 10 cm



**Body Wall**  
BW021 (BW021I) 6 x 12 cm  
BW022 (BW022I) 6 x 16 cm



**Kelly**  
K031 (K031I) 4 x 7.5 cm  
K032 (K032I) 6 x 11 cm



**Malleable**  
M071 (M071I) 2.5 x 7.5 cm  
M072 (M072I) 2.5 x 10 cm  
M073 (M073I) 2.5 x 14 cm  
M074 (M074I) 4 x 10 cm  
M075 (M075I) 4 x 14 cm



**Deaver**  
D061 (D061I) 2.5 x 8 cm  
D062 (D062I) 2.5 x 12 cm  
D063 (D063I) 4 x 12 cm  
D064 (D064I) 4 x 15 cm  
D065 (D065I) 6 x 15 cm  
D066 (D066I) 6 x 18 cm  
D067 (D067I) 6 x 20 cm

# MULTIFLEX LONG ARM RETRACTOR



**Table Clamp**  
GT01



**Horizontal Arm With Double Cam**  
OHA01



**Long Arms**

V02 - 44cm Length 11mm Diameter  
V02I - 44cm Length 1/2" Diameter  
(Note: 2 required for system)



**End Arm - Hinged (optional)**

V03 - 11mm - 8mm Diameter  
V03I - 1/2" - 3/8" Diameter

**Coupling Clamp**  
CC01



**Easy Clamps**

EC01 for: 11mm arms and 8mm blade handles  
EC02 for: 1/2" arms and 8mm blade handles  
EC03 for: 1/2" arms and 3/8" blade handles

**Grip Clamps**

EC04 for: 11mm arms and 8mm blade handles  
EC05 for: 1/2" arms and 3/8" blade handles  
EC06 for: 1/2" arms and 8mm blade handles

(total of 6 clamps of any combination is recommended)

(2 x Easy Clamps EC01 or EC03 are required with this item)

**Standard blades are used for this system**

- o Blades can be made to individual specification upon request.
- o All blade dimensions are width x working depth.
- o All standard blades handles are available in 8mm (metric) or 3/8" (imperial) diameter ("I" added to code)
- o All blades are swivel in design. Fixed blades (non swivel) can be custom made.



**Fence / Splanchnic**

S041 (S041I)	4 x 7.5 cm
S042 (S042I)	4 x 10 cm
S043 (S043I)	4 x 15 cm
S044 (S044I)	6 x 10 cm
S045 (S045I)	6 x 14 cm
S046 (S046I)	6 x 18 cm
S047 (S047I)	6 x 21 cm
S048 (S048I)	8 x 12 cm
S049 (S049I)	8 x 16 cm
S050 (S050I)	10 x 15 cm
S051 (S051I)	10 x 20 cm
S052 (S052I)	10 x 25 cm



**Malleable Finger**

MF01(MF01I) 6 x 11 cm



**Harrington - Malleable**

H088 (H088I) 10 x 15 cm  
H089 (H089I) 12.5 x 19 cm



**Malleable Perforated**

M080 (M080I)	6 x 10 cm
M081 (M081I)	6 x 14 cm
M082 (M082I)	6 x 17 cm
M083 (M083I)	8 x 16 cm
M084 (M084I)	8 x 20 cm
M085 (M085I)	12 x 15 cm

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# BARIATRIC RETRACTOR



**Bariatric Table Clamp**  
(Note: 2 per system required)  
BT01



**Cross Bar**  
B01 - 1/2" Diameter (working width 656mm)  
B01L - 1/2" Diameter (working width 956mm)



**Coupling Clamp**  
(Note: 4 per system required)  
BC01



**Side Arms**  
B02 1/2" Diameter  
(2 per system required)



**Easy Clamps**  
EC02 for: 1/2" arms and 8mm blade handles  
EC03 for: 1/2" arms and 3/8" blade handles

**Grip Clamps**  
EC05 for: 1/2" arms and 3/8" blade handles  
EC06 for: 1/2" arms and 8mm blade handles

(total of 6 clamps of any combination is recommended)

## Standard blades are used for this system



**Rake**  
R011 (R011I) 4 x 4 cm  
R012 (R012I) 6 x 4 cm  
R013 (R013I) 6 x 6 cm  
R014 (R014I) 6 x 8 cm



**Mayo**  
Y012 (Y012I) 4 x 4 cm  
Y013 (Y013I) 6 x 5 cm  
Y014 (Y014I) 8 x 6 cm  
Y015 (Y015I) 8 x 8 cm  
Y016 (Y016I) 8 x 10 cm



**Body Wall**  
BW021 (BW021I) 6 x 12 cm  
BW022 (BW022I) 6 x 16 cm



**Kelly**  
K031 (K031I) 4 x 7.5 cm  
K032 (K032I) 6 x 11 cm



**Malleable**  
M071 (M071I) 2.5 x 7.5 cm  
M072 (M072I) 2.5 x 10 cm  
M073 (M073I) 2.5 x 14 cm  
M074 (M074I) 4 x 10 cm  
M075 (M075I) 4 x 14 cm



**Deaver**  
D061 (D061I) 2.5 x 8 cm  
D062 (D062I) 2.5 x 12 cm  
D063 (D063I) 4 x 12 cm  
D064 (D064I) 4 x 15 cm  
D065 (D065I) 6 x 15 cm  
D066 (D066I) 6 x 18 cm  
D067 (D067I) 6 x 20 cm



# UROLOGIC RETRACTOR



**Table Clamp**  
GT01



**Horizontal Arm With Single Cam**  
GHA01

Horizontal Arm With Double Cam (OHA01) can also be used.



**Coupling Clamp**  
CC01



**Bladder - Malleable**  
B101 (B101I) 8 x 15 cm



**Renal Vein**  
RV091 (RV091I) 2.5 x 10 cm  
RV092 (RV092I) 2.5 x 15 cm  
RV093 (RV093I) 2.5 x 20 cm



**Renal Frame**  
UA01 - 27 x 41cm - 11mm Diameter  
UA01I - 27 x 41cm - 1/2" Diameter (internal measurements)



**Easy Clamps**  
EC01 for: 11mm frame and 8mm blade handles  
EC02 for: 1/2" frame and 8mm blade handles  
EC03 for: 1/2" frame and 3/8" blade handles (6 clamps in total recommended)

## Standard blades are used for this system

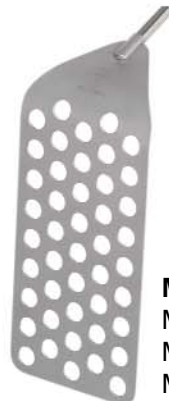
- o Blades can be made to individual specification upon request.
- o All blade dimensions are width x working depth.
- o All standard blades handles are available in 8mm (metric) or 3/8" (imperial) diameter ("I" added to code)
- o All blades are swivel in design. Fixed blades (non swivel) can be custom made.



**Malleable Finger**  
MF01(MF01I) 6 x 11 cm



**Harrington - Malleable**  
H088 (H088I) 10 x 15 cm  
H089 (H089I) 12.5 x 19 cm



**Malleable Perforated**  
M080 (M080I) 6 x 10 cm  
M081 (M081I) 6 x 14 cm  
M082 (M082I) 6 x 17 cm  
M083 (M083I) 8 x 16 cm  
M084 (M084I) 8 x 20 cm  
M085 (M085I) 12 x 15 cm



**Fence / Splanchnic**  
S041 (S041I) 4 x 7.5 cm  
S042 (S042I) 4 x 10 cm  
S043 (S043I) 4 x 15 cm  
S044 (S044I) 6 x 10 cm  
S045 (S045I) 6 x 14 cm  
S046 (S046I) 6 x 18 cm  
S047 (S047I) 6 x 21 cm  
S048 (S048I) 8 x 12 cm  
S049 (S049I) 8 x 16 cm  
S050 (S050I) 10 x 15 cm  
S051 (S051I) 10 x 20 cm  
S052 (S052I) 10 x 25 cm

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# LAPAROSCOPIC LIVER LIFT



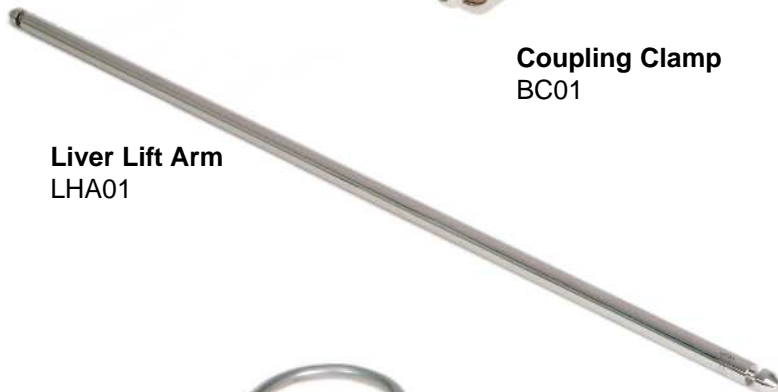
**Table Clamp**  
GT01



**Grip Clamp**  
EC05



**Liver Lift Arm**  
LHA01



**Coupling Clamp**  
BC01



**Liver Lift**  
LL30 - 30mm  
LL50 - 50mm  
LL70 - 70mm



## ACCESSORIES



**Extension Arm**

GE01 - 43cm Length

(Note: Can be used with all Segmented Ring, Urologic and Multiflex Retractors.

CC01 Coupling Clamp required for use with this item)



**General Retractor Tray with Lid**  
ST02 - 38 x 63 x 9cm



**Liver Retractor Tray with Lid**  
LT07 - 38 x 63 x 18cm



## MULTIFLEX HOLDER



**MH01D**  
Multiflex Holder Delrin



**MH01T**  
Multiflex Holder Teflon

## TEFLON INSULATOR



**TE01**  
Teflon Insulator

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