



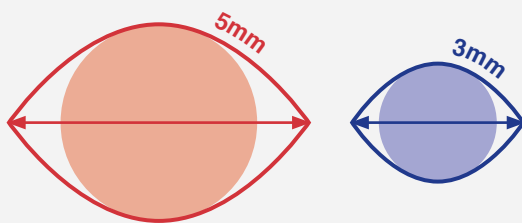
Lapro Surge[®]

3mm Laparoscopy

The True Difference Between 5mm and 3mm



Incision length reduced by 48% ¹

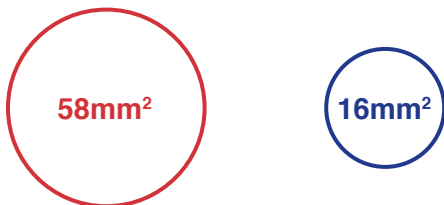


5mm vs 3mm incision length:



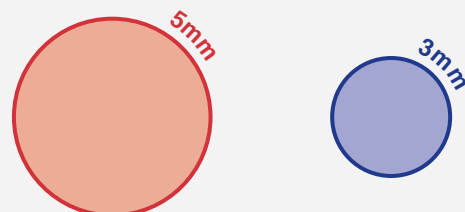
Incision length reduced by 6.4mm

5mm vs 3mm port site surface area:



Port site surface area reduced by 42mm²

Tissue displacement reduced by 73% ²



Reduced wound infection and reduced tissue damage

3mm trocars create significantly less tissue displacement than 5mm trocars, reducing the level of local tissue damage. In turn, this may considerably reduce the incidence of wound infection at 3mm port sites compared to 5mm.

Reduced pain scores ³

Reduced skin scarring ⁵

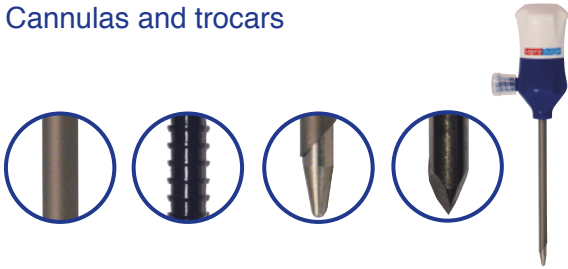
Less risk of port-site herniation ⁴

* References overleaf

Turn over for full details of the 3mm range available from LaproSurge

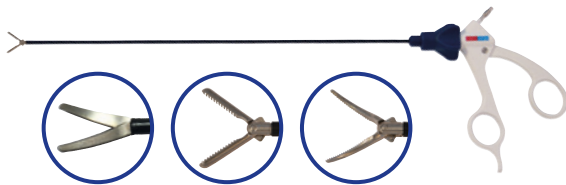


Cannulas and trocars



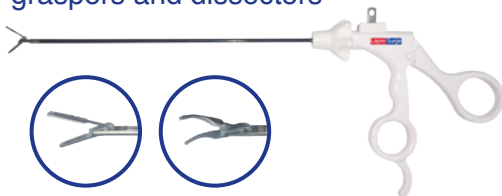
EC3SSB	3mm smooth cannula without gas tap and bladeless trocar
EC3SSB(GT)	3mm smooth cannula with gas tap and bladeless trocar
EC3SSPT(GT)	3mm threaded cannula with gas tap and pyramidal trocar
EC3SS-C	3mm smooth cannula only
EC3SSBT(GT)	3mm threaded cannula with gas tap and bladeless trocar
EC3SSP(GT)	3mm smooth cannula with gas tap and pyramidal trocar
EC3SST(GT)-C	3mm threaded cannula only with gas tap

Monopolar scissors, graspers and dissectors



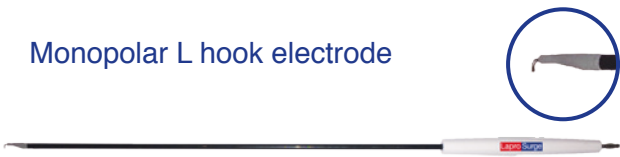
LS006-3	3mm curved scissors - 310mm length
LS006-3S	3mm curved scissors - 230mm length
LG005-3	3mm Maryland dissector - 310mm length
LG005-3S	3mm Maryland dissector - 230mm length
LG006-3	3mm Johan grasper - 310mm length
LG006-3S	3mm Johan grasper - 230mm length

Bipolar graspers and dissectors



BFG003	3mm bipolar fenestrated grasper - 310mm length
BFG003-S	3mm bipolar fenestrated grasper - 230mm length
BPM003	3mm bipolar Maryland dissector - 310mm length
BPM003-S	3mm bipolar Maryland dissector - 230mm length

Monopolar L hook electrode



HE003	3mm L hook - 330mm length
HE003-S	3mm L hook - 230mm length

Suction irrigation



MD001-3	3mm suction irrigation - 330mm length
MD001-3S	3mm suction irrigation - 230mm length

^{1,2} Calculated using OD of LaproSurge 3mm smooth cannula vs LaproSurge 5mm ribbed cannula
^{3,5} Bignell, M., Lewis, M. P. N., Cheong, E. C. K., and Rhodes, M. (2013), "A prospective, randomized, single-blind trial of 5-mm versus 3-mm ports for laparoscopic cholecystectomy: is smaller better?", *Surgical Endoscopy*, Vol. 27, pp. 3616-3621
⁴ Lajer, H., Widecrantz, S., Heisterberg, L. (1997), "Hernias in trocar ports following abdominal laparoscopy. A review", *Acta Obstetrica et Gynecologica Scandinavica*, Vol. 76, Issue 5, pp. 389-93
⁵ Franklin, M.E. Jr, Jaramillo, E.J., Glass, J.L., Treviño, J.M., Berghoff, K.R. (2006), "Needlescopic Cholecystectomy: Lessons Learned in 10 Years of Experience", *JSLs*, Vol. 10, Issue 1, pp. 43-46



Lapro Surge®



3mm Laparoscopy

The natural evolution towards less invasive surgery

3mm Laparoscopic Instruments

The 3mm product range from LaproSurge includes a comprehensive range of reduced-diameter laparoscopic instruments enabling surgeons to perform less invasive surgery without a compromise on strength or rigidity of instruments.

3mm laparoscopy provides many undeniable clinical and cosmetic advantages without requiring the surgeon to alter operating technique. Accessing the abdominal cavity through 3mm ports has both the cosmetic benefit of reduced skin scarring and the clinical benefits of a reduced level of tissue damage, port-site herniation and wound infection, faster recovery and a reduction in pain scores.

The high quality 3mm instruments from LaproSurge enable surgeons to achieve the ergonomics of conventional laparoscopic triangulation with the numerous additional advantages of reduced incision-size.

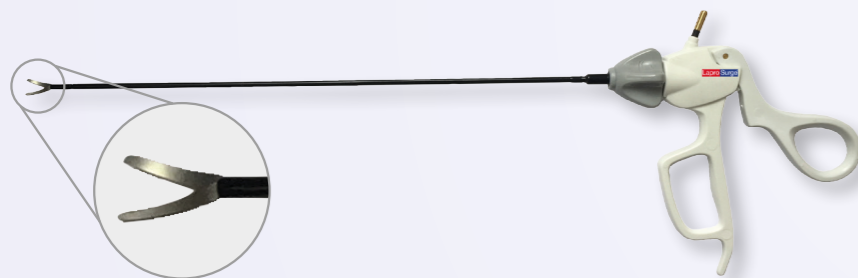
3mm Cannulas and Trocars

- Simple design to provide low-friction access for 3mm instrumentation
- Low profile cannula head reduces extracorporeal working space used
- Extremely lightweight to prevent drooping in abdominal wall



Product	Ordering Code	Length	Box Qty
3mm Cannula without Gas Tap	EC3SS-C	60mm	20
3mm Cannula with Gas Tap and Bladeless Trocar	EC3SSB(GT)	60mm	20
3mm Cannula without Gas Tap and Bladeless Trocar	EC3SSB	60mm	20
3mm Threaded Cannula with Gas Tap and Bladeless Trocar	EC3SSBT(GT)	60mm	20
3mm Cannula with Gas Tap and Pyramidal Trocar	EC3SSP(GT)	60mm	20
3mm Threaded Cannula with Gas Tap and Pyramidal Trocar	EC3SSPT(GT)	60mm	20
3mm Threaded Cannula with Gas Tap	EC3SST(GT)-C	60mm	20

3mm Monopolar Scissors



- Double action scissors with curved blades to increase visualisation of blade tip during cutting
- Exceptional shaft strength and rigidity
- 360° finger-tip rotation for precise control of tip orientation
- Full insulation of shaft up to scissor blades for increased safety

Product	Ordering Code	Length	Box Qty
3mm Curved Scissor – Standard	LS006-3	310mm	5
3mm Curved Scissor – Short	LS006-3S	230mm	5

3mm Monopolar Graspers and Dissectors



- Double action jaws with wide opening angle
- Exceptional shaft strength and rigidity
- 360° finger-tip rotation for precise control of tip orientation
- Low-protruding hinge joints prevent catching on sutures
- Highly ergonomic handle design combines comfortable grip for surgeon with impressive tactile feedback and smooth movement of jaws

Product	Ordering Code	Length	Box Qty
3mm Monopolar Maryland Dissector – Standard	LG005-3	310mm	5
3mm Monopolar Maryland Dissector – Short	LG005-3S	230mm	5
3mm Monopolar Johan Grasper – Standard	LG006-3	310mm	5
3mm Monopolar Johan Grasper – Short	LG006-3S	230mm	5

3mm Bipolar Graspers and Dissectors



- Reduced diameter instruments for controlled coagulation and dissection of tissue
- New 3mm design further reduces risk of thermal spread to surrounding tissue
- Double action jaws with impressive opening angle
- 360° finger-tip rotation for precise control of tip orientation

Product	Ordering Code	Length	Box Qty
3mm Bipolar Maryland Dissector – Standard	BPM003	310mm	5
3mm Bipolar Maryland Dissector – Short	BPM003-S	230mm	5
3mm Bipolar Johan Grasper – Standard	BFG003	310mm	5
3mm Bipolar Johan Grasper – Short	BFG003-S	230mm	5

Incision length reduced by 48%*

Tissue displacement reduced by 73%*

*comparison of 3mm cannula vs 5mm cannula

3mm L Hook Monopolar Electrode



- 3mm monopolar electrode used to coagulate, transect and dissect tissue
- Low profile handle design for comfortable pencil grip
- Fine L-shape tip design provides easy penetration through tissue
- Exceptional shaft rigidity provides high level of strength for tissue manipulation
- Standard 4mm male plug connector - monopolar cable also available

Product	Ordering Code	Length	Box Qty
3mm L Hook – Standard	HE003	330mm	10
3mm L Hook – Short	HE003-S	230mm	10
Monopolar Cable	MC001	3 metres	25

3mm Suction Irrigation



- The reduced diameter shaft provides a more concentrated spray for a more accurate irrigation
- Ergonomic traditional trumpet-grip handle to provide comfort for all hand sizes – handle is also reversible for additional flexibility
- Suction and irrigation flows are controlled by colourcoded fingertip trumpet valves
- Controls are lubricated to reduce friction and ensure smooth and precise function control
- Screw thread for disconnection of 3mm probe if necessary - compatible with a range of interchangeable
- 5mm and 10mm probes and diathermy accessories
- Available with dual-spike irrigation for rapid bag changes

Product	Ordering Code	Length	Box Qty
3mm Suction Irrigation – Standard	MD001-3	330mm	10
3mm Suction Irrigation – Short	MD001-3S	230mm	10
3mm Probe Attachment - Standard	HDP001-3	330mm	10
3mm Probe Attachment - Short	HDP001-3S	230mm	10



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Lapro Surge

www.laprosurge.com