

TONTARRA

ENDOSCOPY

ViRTUOSO

Articulated Laparoscopic Instruments

360°

Full rotation



90°

Articulating
in all directions
- 45° to +45°

5mm

Diameter



VIRTUOSO

Articulated Laparoscopic Instruments



► **Unique Articulation and Design:**

The articulation of the distal tip makes the handling easier during laparoscopic surgery by simply moving the distal tip instead of the whole instrument. The ergonomic handle ensures a comfortable way of working, also during long interventions. They are designed to allow optimal use for surgeons with big and small fingers.

► **Less incisions needed:**

The use of articulated instruments often reduces the need of a fourth or even fifth incision since articulated incisal head gives the surgeon more precise control of surgical sites (tissues, organs, arteries, etc.) which is a great advantage in the case of medical complications. Less incisions lead to a faster recuperation of the patient.

► **Cost-efficient:**

The product is fully reusable and therefore on a long-term basis more cost efficient compared to single-use products. Cost per use is reduced. No invest in highly expensive robotic systems as these handheld instruments adapt the concept and transfer it to common laparoscopy.



ViRTUOSO

Articulated Laparoscopic Instruments

We transfer robotic attributes into
surgeon's hands.

With unique and affordable advantages
in MIS procedures.

The robot and its instrument movement range is high-end and expensive; standard laparoscopic instruments sometimes limit surgery due to the reduced range of movements:

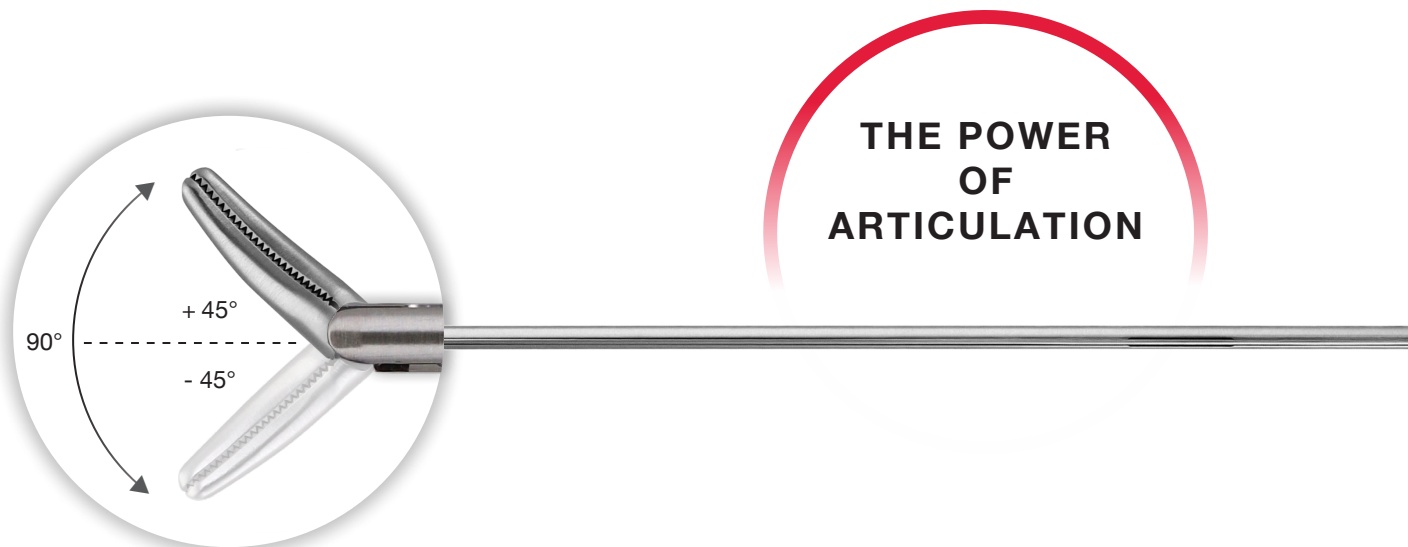
ViRTUOSO combines the advantages of both worlds!

TONTARRA
developed by
oimm
Innovative Medical Mannheim



Expanding Horizons

High versatility with additional movement ranges for improved access in the operation field.



► Multi position tip:

90° articulation in all directions:
-45° to +45°



METZENBAUM
Scissors



MARYLAND
Dissecting Forceps



Grasping Forceps



Needle Holder

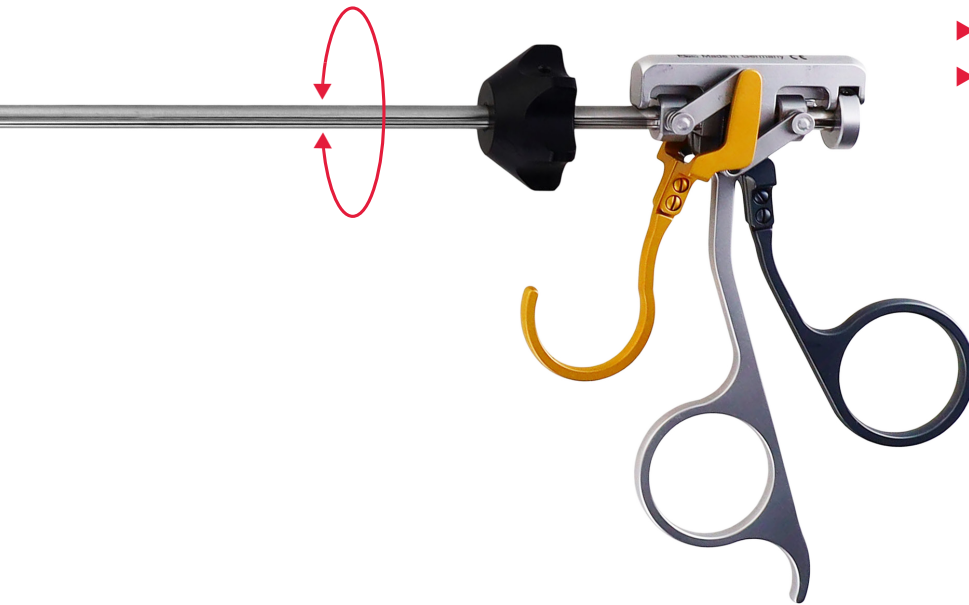
Advanced laparoscopic features
like **articulation and rotation**
of distal tip.



VIRTUOSO

Articulated Laparoscopic Instruments

Full rotation
360°



- ▶ Ergonomic handle design
- ▶ Extended durability due to special coating
- ▶ Design with open and visible mechanical parts ideal for reprocessing

Main Applications

▶ General Surgery

Inguinal hernia (TAPP; TEP); Gallbladder; Bariatric surgery; Colon; Appendix; Reflux surgery;
(abdominal pathologies treated by laparoscopic surgery)

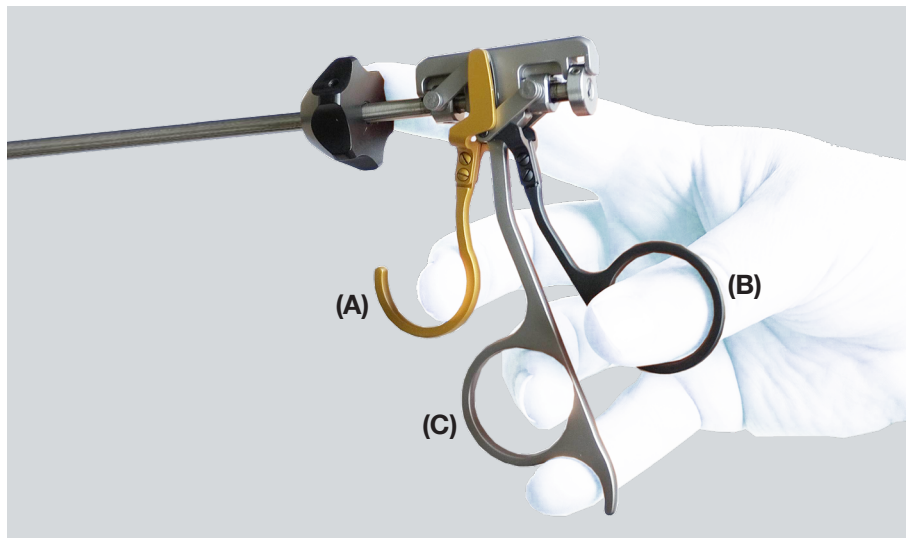
▶ Urology

Kidney surgeries (for cancer or lithiasis pathology); Ureter surgeries; Prostate surgeries (for cancer or benign pathology); Radical Prostatectomy;
(urological pathologies treated by laparoscopic surgery)

▶ Gynecology

LAVH; LSH; TAH; Fallopian tubes; Ovarian cyst;
(gynecological pathologies treated by laparoscopic surgery)





(1)

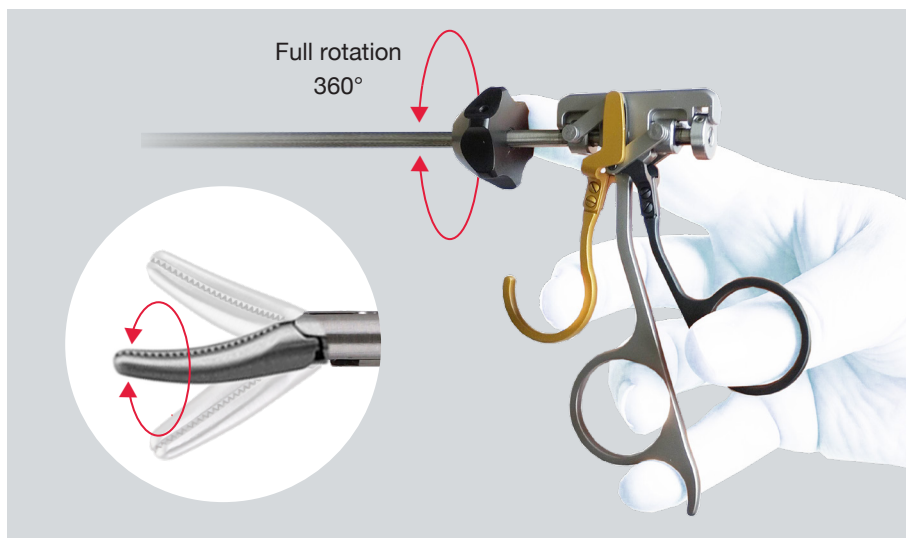
Operation of the handle:

(A) GOLD part: moves one jaw

(B) BLACK part: moves the other jaw

(C) Central part: fixed and not movable

The jaws can be moved as needed with one or both handles.

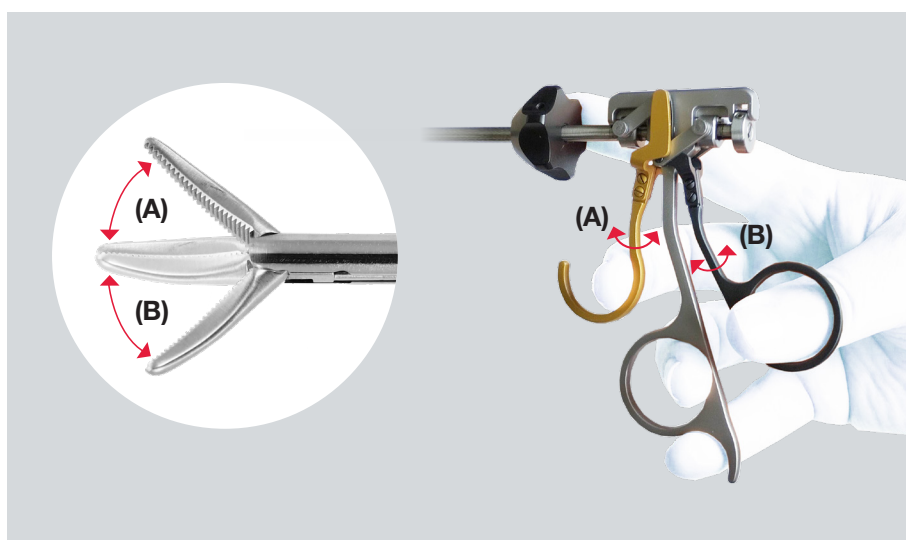


(2)

Rotation of the jaw:

The orientation of the jaw can be adjusted via rotation wheel.

The wheel can be moved bi-directional.

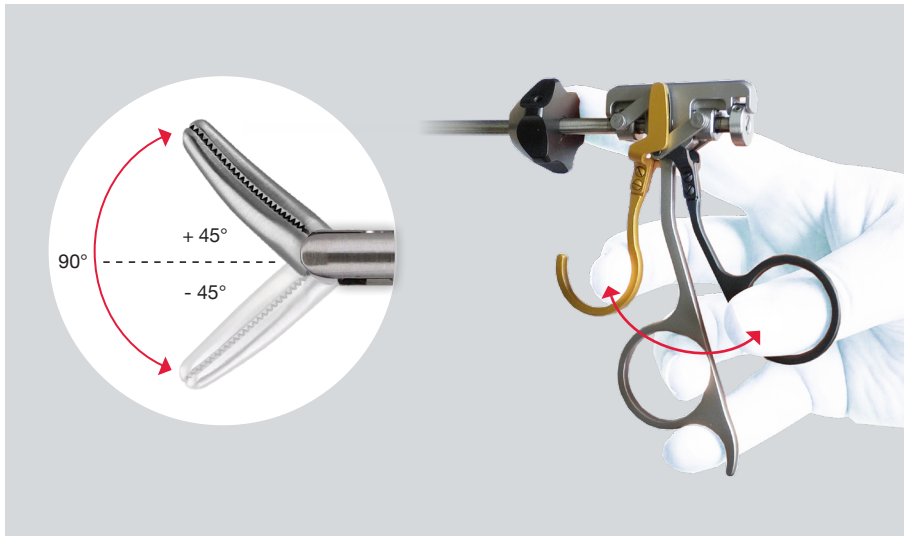


(3)

Opening and closing the jaw:

(A) The GOLD part controls one jaw.

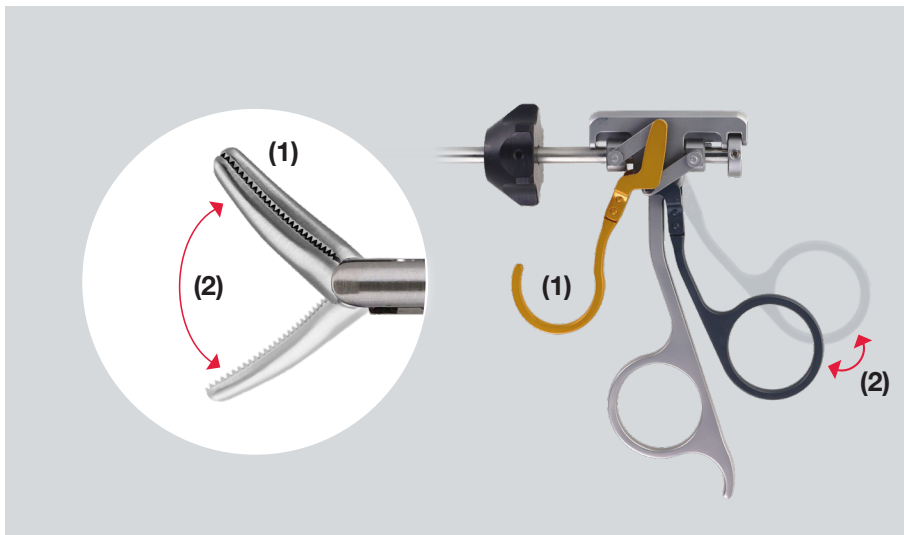
(B) The BLACK part controls the other jaw.



(4)

Direction & position of the closed jaw:

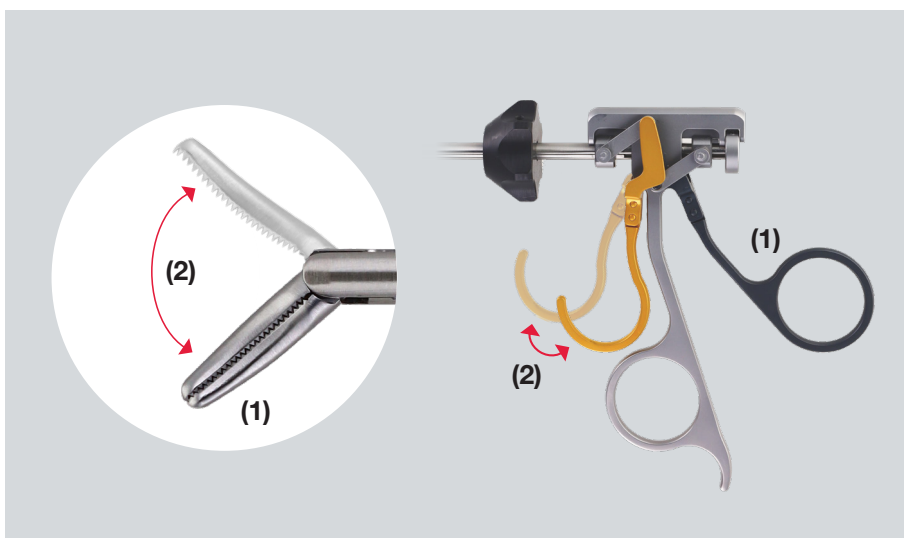
The frontal and the rear part of the handle swing forward and backward to move the jaw upwards or downwards (resp. left and right in case it is rotated)



(5)

Open and close the jaw:

- (1) Selection of tip direction - here upwards: golden handle part has moved to the front
- (2) The BLACK rear part OPENS AND CLOSSES the jaw



(6)

Open and close the jaw:

- (1) Selection of tip direction - here downwards: black handle part has moved to the back
- (2) The GOLDEN front part OPENS AND CLOSSES the jaw

► Quick learning guide video

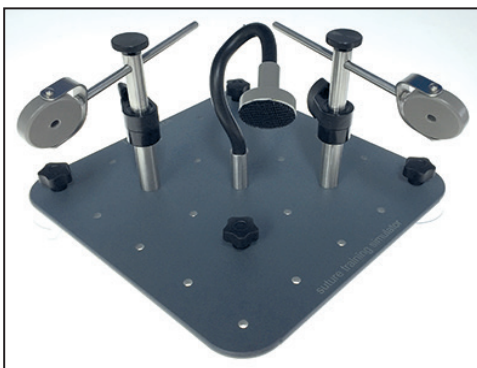


Best practise:

Read the instruction carefully and watch the quick learning guide video before using the instrument. Then take your VIRTUOSO in your own hands and explore the power of articulation.

For the correct handling of the VIRTUOSO it is necessary to practice in advance. Best would be to use a laparoscopic suture trainer. Once you are familiar with the movement and handling you will experience the benefit of an articulated instrument in surgery.

For optimal practise you can use our suture training simulator:



Training Simulator Set
Art. No. 750-000-00



Dr. Rafael Villalobos Mori
MDD, PhD

Chief of the Abdominal Wall Surgery
of the Arnau de Vilanova University Hospital,
Spain

"In my experience and knowledge of the facilities that robot-assisted surgery represents, laparoscopy with articulated instruments greatly facilitates the execution of surgical movements, especially in reduced spaces and in situations in which vision must be angled.

Laparoscopy with iMM articulated instruments takes a step forward compared to conventional rigid laparoscopy, making many of the procedures in minimally invasive surgery, especially in the abdominal wall, easier and more ergonomic.

When I don't have access to robotic surgery, I choose articulated laparoscopic instruments."



Dr. Osvaldo L. Santilli

Director of Centro de Patología Herniaria. Member of Argentine Hernias Association
Member of International Endo-hernia Society.
Professor of Surgery. Faculty of Medicine. Buenos Aires University.
Argentina

"Dear colleagues, having finished the testing stage of the IMM articulated forceps, we have decided to acquire them definitively to develop systematized TAPP Laparoscopic Hernioplasties in our service. The instrument's innovations have been based on experience from 500 surgeries.

The articulated forceps allowed access areas and scope angulation with less pulling force and movements.

The accepted benefits of robotics have been achieved with no significant impact on costs. This sophisticated property acquired by a universally used tool has allowed us to fast access and adapt without modifying the surgical times obtained. I am sure that the "IMM Hernioplasty Set" is a great Innovation."



Dr. Jose Rene Herrera,
MD

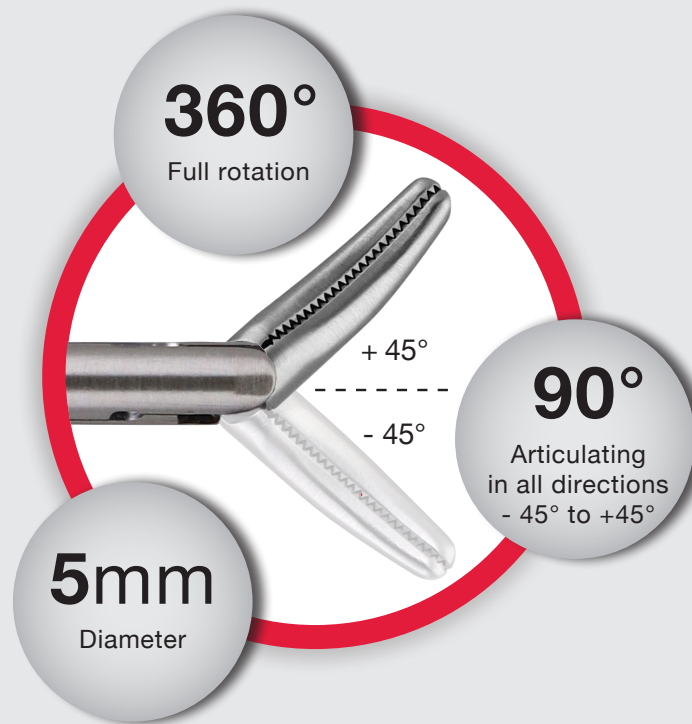
Surgeon specialized in minimally invasive surgery. Laparoscopic and percutaneous surgery. Commission coordinator of surgical simulation of the Argentine Surgery Association. Executive Director of ALACE (Latin-American Endoscopic Surgery Association). Creator of PSQ surgery program and PSQ laparoscopic simulator.

"We must understand that one of the new challenges that surgeons face is the incorporation of instruments with ranges of mobility greater than those already known.

The iMM articulated instruments expand the horizons known so far, becoming a technological innovation.

It's time to train Surgeons in new technologies such as articulated tweezers.

Every young surgeon should be trained in surgical simulation and be aware of these advances in articulated laparoscopy."



Articulation and rotation of distal tip

Only distal tip is articulated which increases the range of motion compared to instruments which also have a partially articulated shaft. The 90° angulation and 360° rotation allow highest flexible and defined positioning and access.

Standard Diameter Laparoscopy Ø 5mm

The new articulated products are available in 5 mm. This allows surgeons to only need small incisions compared to the 8 to 10 mm robotic instruments. Smaller incisions lead to less post operative pain as well as almost no recognizable scars for the patient.

Various jaws

Initially, the most common distal tips are available, such as scissors, Maryland, dissecting forceps and a needle holder to facilitate all common interventions.

High grasping force and ergonomics

The thoughtful design allows the surgeon to grasp all kind of tissues and apply high forces without causing any damages to the instrument. An ergonomic handle reduces fatigue and improves manipulation.

Durability

The instruments are autoclavable and the durable design guarantees a long lifetime.

Compatibility

Can be used with standard 5 mm trocars.

Part Number	Description
615-101-53	VIRTUOSO Metzenbaum Scissors; curved jaw; standard; toothed; Ø 5.0 mm; 380 mm
615-106-53	VIRTUOSO Metzenbaum Scissors; straight jaw; standard; toothed; Ø 5.0 mm; 380 mm
615-304-53	VIRTUOSO Maryland Dissecting Forceps; curved jaw; Ø 5.0 mm; 380 mm
615-311-53	VIRTUOSO Grasping Forceps; fenestrated; straight jaw; Ø 5.0 mm; 380 mm
615-701-53	VIRTUOSO Needle Holder; straight jaw; Ø 5.0 mm; 380 mm

TONTARRA Medizintechnik GmbH is certified in accordance with the European Medical Device Regulation (EU) 2017/745 and complies with the requirements of the Medical Device Single Audit Program (MDSAP).

This certification affirms our commitment to quality and safety standards in the design, manufacturing, and distribution of our medical devices. As a result, we are authorized to affix the CE mark to our products within the scope outlined in our certificates, which can be accessed on our official website. This achievement reflects our dedication to delivering high-quality, compliant medical devices to our customers and underscores our adherence to the rigorous standards set forth by regulatory authorities.

Sales and availability of products are limited to registrations in the corresponding markets.

The products listed in this catalog may only be used by trained healthcare professionals, evaluating the proper application in each patient case.

This content does not replace the instruction for use of the product.

Indications, contraindications and warnings are specified in the corresponding instructions for use.



► [VIRTUOSO ONLINE PRESENTATION](#)

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