



UROLASE
MAX

**LASER PLATFORM
FOR UROLOGY**

ALL IN ONE





1 «TISSUE SENSOR»

A soft and hard tissue detection system designed to maximize safety during lithotripsy.



2 NEW GENERATION OF THULIUM FIBER LASER

The most powerful generation of the Thulium fiber laser for urology, covering the entire spectrum of hospital manipulations: both soft tissue surgery and lithotripsy.



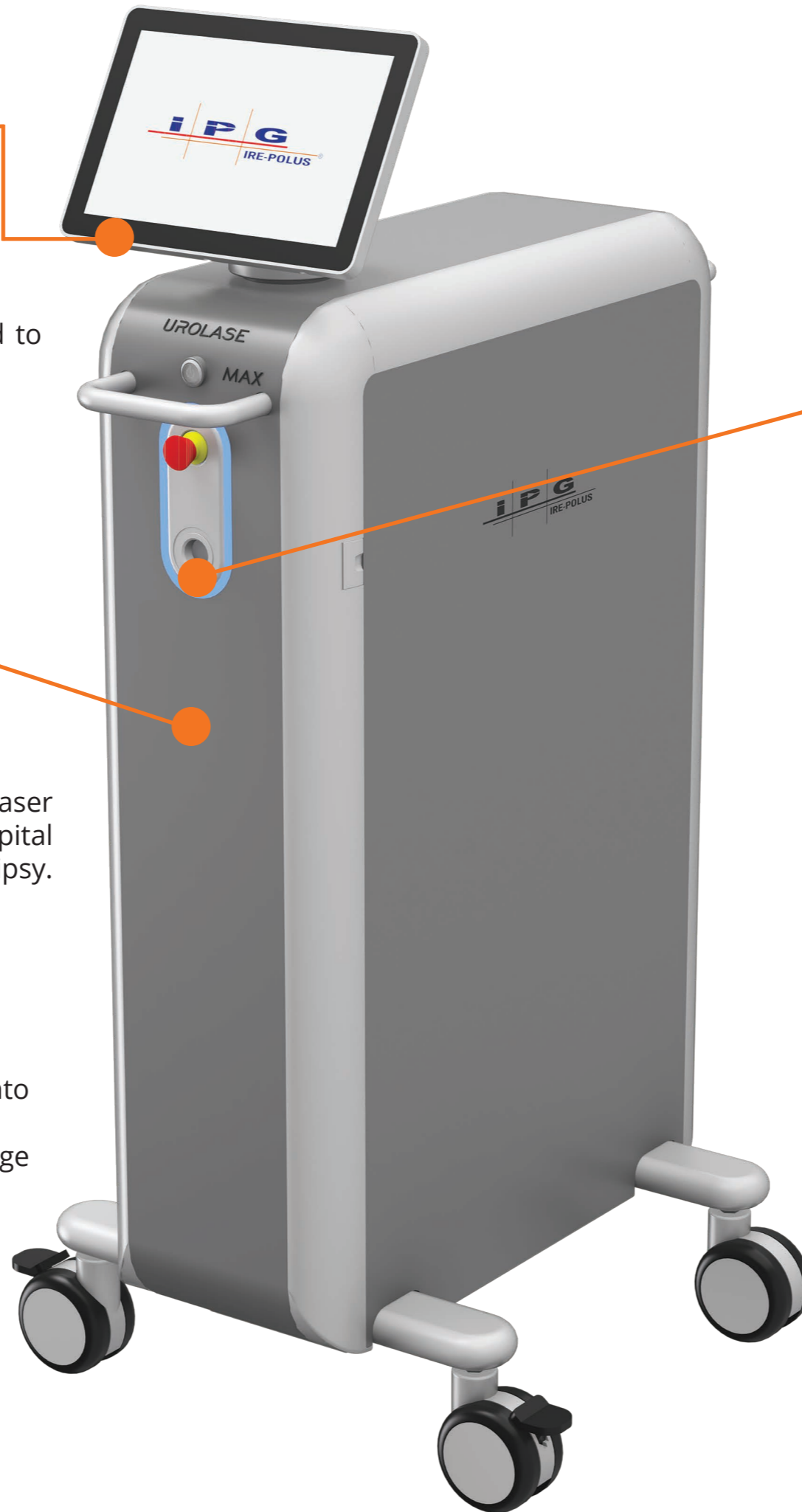
LITHOTRIPSY:

- «MRP» mode - minimizes retropulsion
- «Fine» dusting – ultra-fast fragmentation into micro-fragments
- «Ultra» fragmentation - breaking into large fragments for extraction



SOFT TISSUE:

- «Dissect» enucleation mode – thermo-mechanical dissection of tissues
- «Bloodless» coagulation mode – the most efficient coagulation mode
- «Clean pulse» mode – vapoenucleation without carbonization



3 «ONE PUSH» CONNECTOR

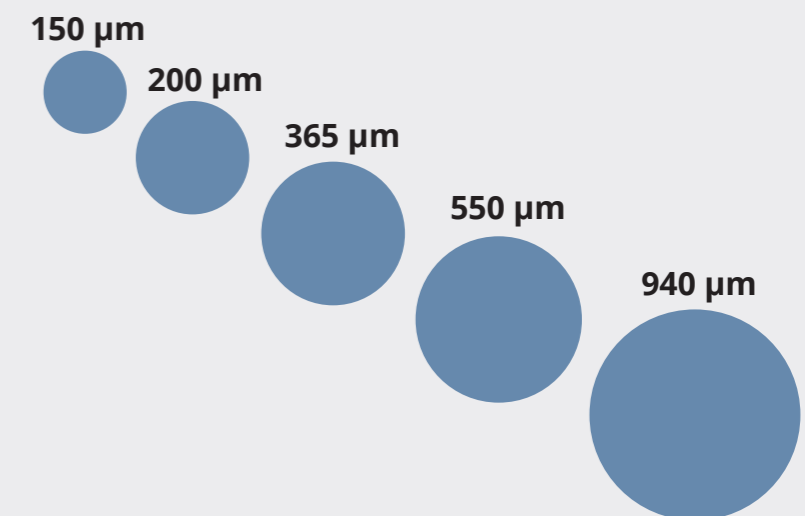
The «One push» instant fiber connector with automatic shutter is designed to prevent contamination and ease of connection.

IPG SURGICAL FIBER

DESIGN OPTIONS:

- SINGLE USE
- MULTIPLE USE

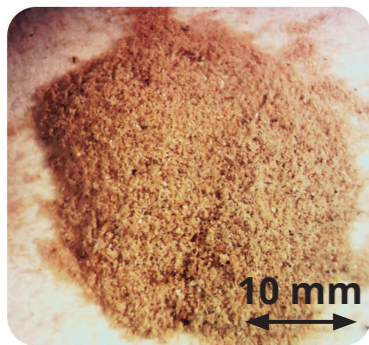
AVAILABLE DIAMETERS:



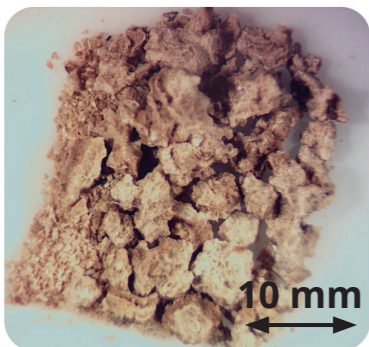
Modulated pulses

The modulated pulse settings and high power characteristics of the **Urolase MAX** laser system bring lithotripsy to a qualitatively new level of efficiency, different from all urological lasers.

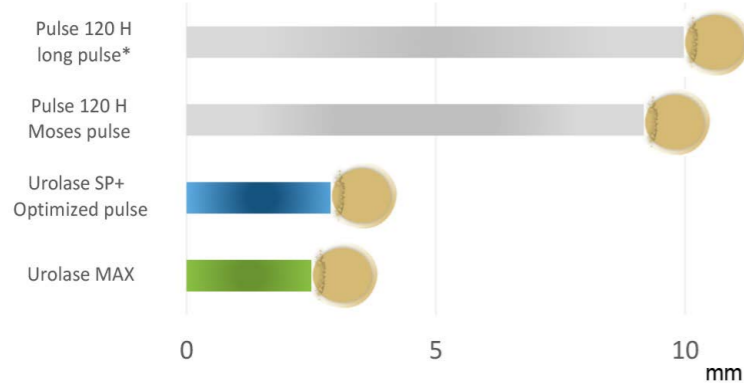
1 The new **«Fine» dusting** mode allows the surgeon to crush stones into fine dust at a high speed.



2 The special **«Ultra» pulse** fragmentation mode instantly breaks down the densest stones into large fragments for subsequent lithoextraction.



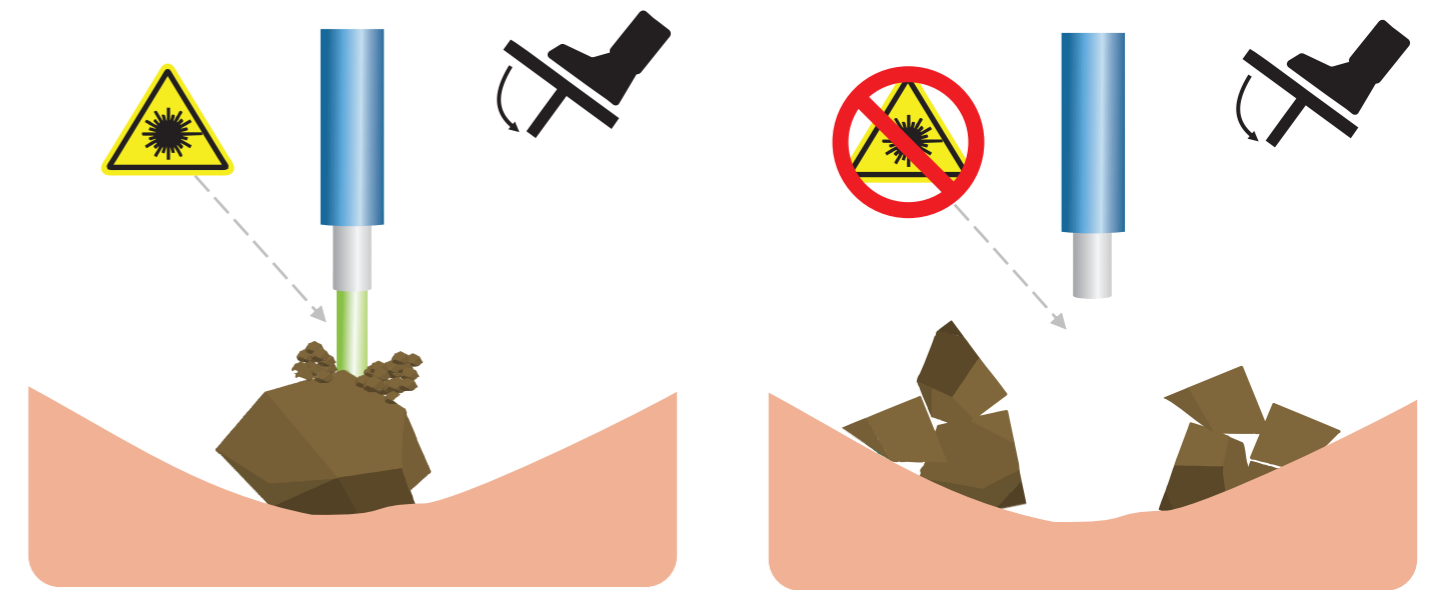
3 **MRP* mode** - minimal stone displacement during crushing, compared to holmium lasers and with standard pulses of UroLase series of thulium fiber lasers.



Tissue sensor – tissue/stone detection

Tissue sensor* is an innovative development of our company aimed at **absolute maximization of safety** during stone crushing.

This technology is designed to eliminate accidental exposure of soft tissues to laser radiation during lithotripsy.



The principle of the Tissue sensor is that the laser detects which tissue (hard or soft) is in front of the surgical fiber tip.

Thus, during lithotripsy, the laser **automatically stops radiation** when it is pointed at the soft tissues, eliminating the risk of damage and perforation.

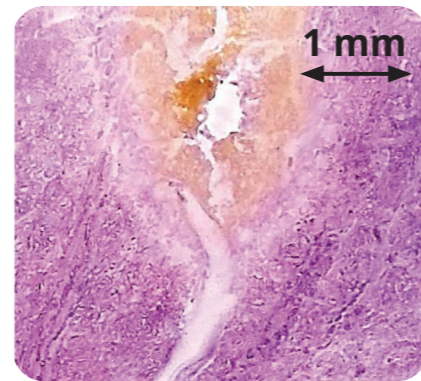
SOFT TISSUES

Two types of enucleation in one device

The **Urolase MAX** laser device has two types of enucleation:

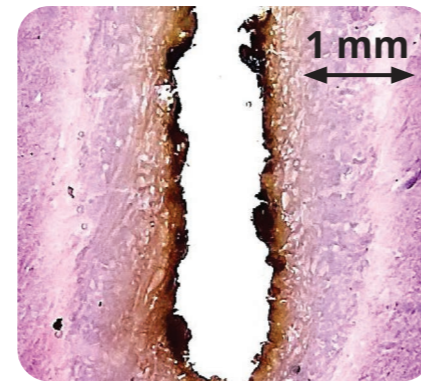
1 «Dissect» mode enucleation

- Adenomatous tissue dissection is the same as the HoLEP procedure
- Haemostatic properties are by far superior to those of HoLEP
- No carbonization



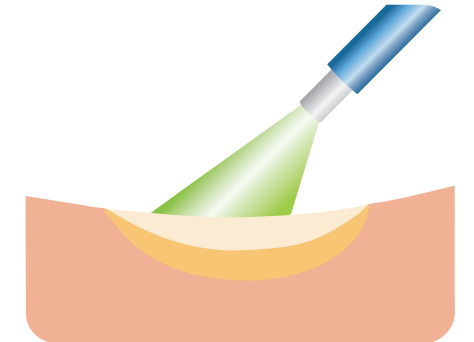
2 Classic thulium fiber enucleation – ThuFLEP

- Effective vaporization of soft tissues
- Precise work due to minimal depth of penetration
- No blood loss due to high level of hemostasis

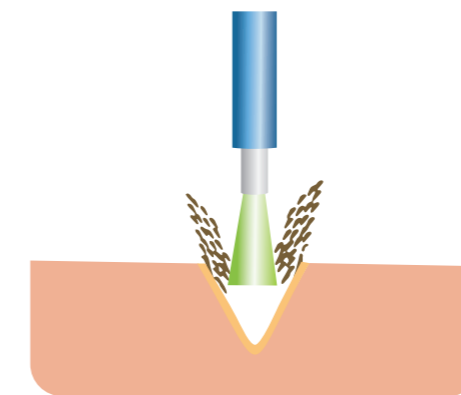


«Bloodless» coagulation mode

The **Urolase MAX** has a unique pulse mode for coagulation. Due to the wide area of exposure, this mode allows effective coagulation of the postoperative zone from a short distance.



«Clean pulse» - no carbonization



For vapo-enucleation and vaporization, the **«Clean pulse»** mode allows removal of soft tissue without carbonization and with an efficiency similar to continuous mode lasers.

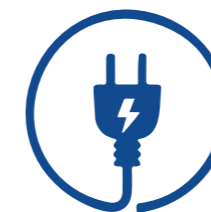
SURGEON'S "ASSISTANT"



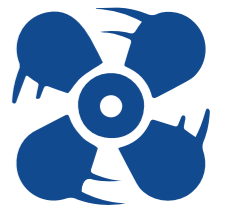
The **Urolase MAX** is the first laser with a «surgeon's assistant» function, which is based on many years of analysis of the parameters used in various manipulations by leading surgeons around the world. The main purpose of this function is to ensure maximum safety during laser surgery.

SYSTEM

Standard network connection



Air-cooling



Regular maintenance is not required



Three times more compact and lighter than Ho: YAG lasers





WORLD LEADER IN LASER INDUSTRY

IRE-Polus is one of the leaders in the field of fiber lasers and amplifiers, as well as devices and systems based on them. Fiber lasers have the highest performance, reliability, and practicality at a lower cost of ownership than other types of lasers.

Relying on professionalism and many years of experience in laser equipment manufacturing, "IRE-Polus" Ltd. sells medical laser devices and surgical fibers for a wide range of applications.

During the development of new medical laser devices, IRE-Polus goes through all stages: not only the device manufacturing, but also creation of methods for its application, conducting both in-vitro researches in its own research laboratories, and clinical research together with the leading clinical centers.



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FOUNDED IN
1991



15

CLINICAL CENTERS FOR
IN VITRO AND IN VIVO
STUDIES



>1 million

PATIENTS HAVE BEEN
TREATED WITH IRE-POLUS
LASERS IN 2024



>800

MEDICAL LASER SYSTEMS
SHIPPED TO RUSSIA SINCE
2024