

Specifications

System parameter

Specifications	
Type of laser	Femtosecond (100% fiber-optic)
Laser source	Diode pump fiber laser
Central wavelength of the laser	1,030 nm +/-1 nm
Laser pulse duration	~1k fs

Dimension & weight

Specifications	
Rx machine height	1100 mm
Rx Footprint	490 mm x 500 mm
Rx weight	55 kg
Station to Handpiece cord length	2 m
Handpiece	L=200 mm, D=65 mm; H=420 mm
Handpiece weight	1,2 kg

References

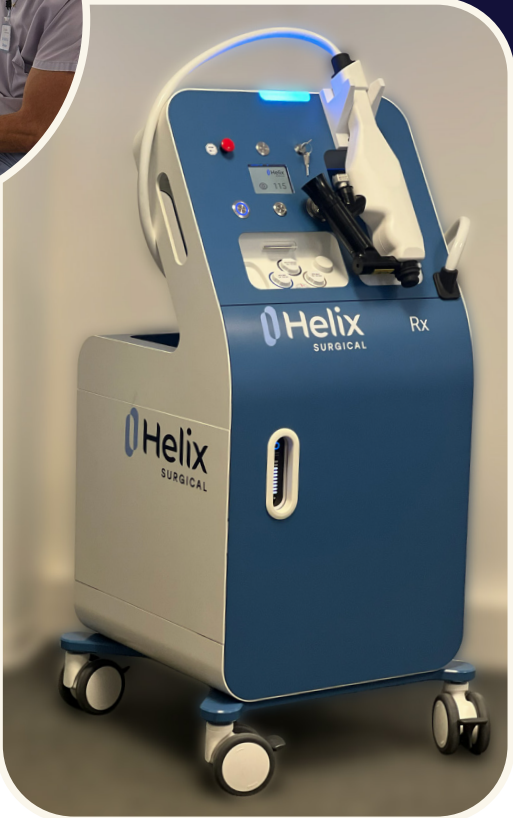
Ref	Name	Description
Rx References		
DCOM-0001	Rx Device	Fully functional Rx including transport packaging, batteries + PCA rings x 3 + test kit (Power-meter adapter + Trajectory test tooling) + Protection Goggles + cleaning kit + power cable + charger + pedal + 2x
IDEM-0001	Demo/Swap Rx Device	Fully functional Rx including transport packaging, batteries + PCA rings x 3 + 3x PI Clamp + test kit (Power-meter adapter + Trajectory test tooling) + Protection Goggles + cleaning kit + power cable + charger + pedal + 2x Keys + Pi pigs
A0503	Rx by Helix Surgical	Fully functional Rx
Patient interface References		
COM-0001	PI's 250	Patient interface (single use) Includes 25 boxes of 10 Patient interface (Ref A0505) in transport boxes Made in France - Total net weight : 0.750 KG - Custom code : 90.18.50.90
A0505	Patient Interface	Patient interface (single use) Includes 1 box of 10

Manufacturer:  0459 Read labelling and instructions before the use of Helix Surgical medical device. These products must be handled by trained and qualified staff who have read the instructions



Rx,
the first **handheld femtosecond laser**
instrument
for **capsulotomy**

- Truly mobile
- No Suction
- Self-Centering
- Affordable



Rx the first handheld and battery powered femtosecond laser instrument

Ergonomic instrument

Rx is an handheld instrument that gives surgeons full control during the procedure and offers:

- an ergonomic, light weight handpiece (1,2 kg),
- comfortable experience for the patient⁽¹⁾,
- the possibility for the surgeons to center their anterior capsulotomy on visual axis or wherever they want.

Integrated into patient flow

Thanks to its small footprint, the Rx femtolaser is integrated into surgeon patient flow:

- 30 seconds procedure duration: no extra time compared to manual capsulotomy,
- can be used in **non sterile** environment,
- compact femtolaser: 50x50x110 cm (LxIhx),
- easy to move: on wheels,
- battery powered.

Easy to use

Rx performs capsulotomy with a sterile single use patient interface.

The patient interface design allows:

- **suction free**,
- user friendly,
- cost efficient.

⁽¹⁾Assessment of a handheld femtosecond laser instrument to perform anterior capsulotomy during cataract surgery. F. Lignereux (Institut Ophtalmologique Sourdis Atlantique Nantes), F. Deloison (Helix Surgical), F. Salin (Helix Surgical), P. Deslandes (Helix Surgical), B. Jouannaud (Helix Surgical), D. Touboul (CHU Bordeaux).

Design based on frugal engineering

Frugality means using best available resources to meet needs in a constrained environment.

Driven by this philosophy, Helix Surgical designed Rx, focusing solely on a critical step of cataract surgery: the capsulotomy.

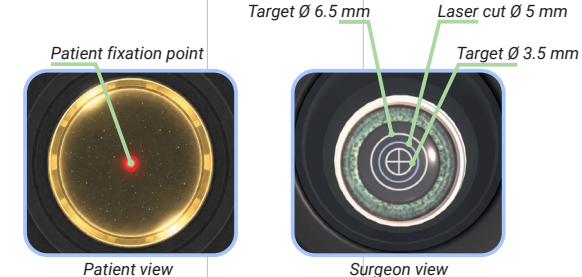


Round, centered, and predictable capsulotomy

Fully predictable circular capsulotomy

Thanks to a femtosecond laser technology combined with an ergonomic handpiece, Rx guarantees surgeons a round, centered and predictable capsulotomy.

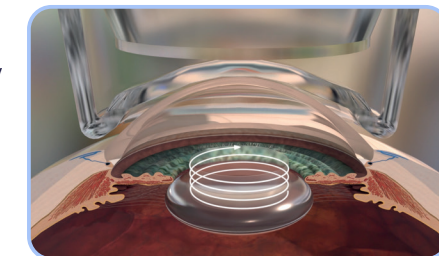
Round and centered: To perform the capsulotomy, the Rx handpiece includes a red fixation point for the patient allowing self-centration on visual axis, as well as two targets circles allowing to aim precisely & freely if needed.



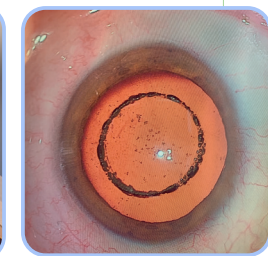
Fast procedure

Rx performs the anterior capsulotomy by a Helix-shaped laser beam cut:

- Laser cut duration: 4 s,
- Capsular bag cut: 20 ms.



Helix-shaped laser beam cut



Result: Ø 5 mm capsulotomy

Scan to watch
Rx video
on YouTube

