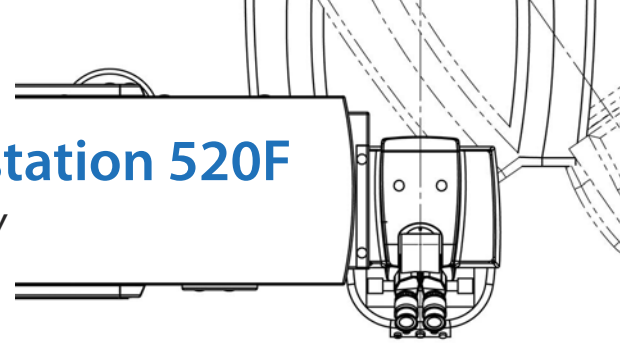


TECHNOLAS Femtosecond Workstation 520F

Versatile advanced femtosecond laser technology



The TECHNOLAS Femtosecond Workstation 520F is a highly flexible tool used for treating a broad variety of indications. All procedures are personalized through the software modules CUSTOMFLAP®, CUSTOMSHAPE® and INTRACOR™.

CE MARKED INDICATIONS

- > LASIK Flaps
- > Penetrating Keratoplasty (PKP)
- > Lamellar Keratoplasty (LKP and FLEK)
- > Tunnel cuts for Intracorneal Ring Segments (ICRS)
- > Arcuate cuts for Astigmatic Keratotomy (AK)
- > INTRACOR™ for presbyopia correction in mild hyperopes

DESCRIPTION

- > High frequency femtosecond laser source
- > LCD monitor and keyboard for data input
- > Integrated video camera to provide live-image and recording option
- > Uninterruptible Power Supply (UPS) integrated into laser device
- > Patient bed
- > Single-use, sterile anatomically curved Patient Interface

APPROVALS

- > CE Mark for the European Union 1275
- > FDA 510k Clearance (LASIK Flaps)

OUTLOOK

Ongoing clinical trials for the intrastromal correction of myopia, astigmatism and hyperopia, and combined treatments.

PATIENT BED

- > Three-dimensional control (x/y/z) by joystick
- > Can be used in both left and right-handed configuration
- > Programmable positions for OD, OS and home positioning
- > Can be shared with the TECHNOLAS Excimer Workstation

CURVED PATIENT INTERFACE

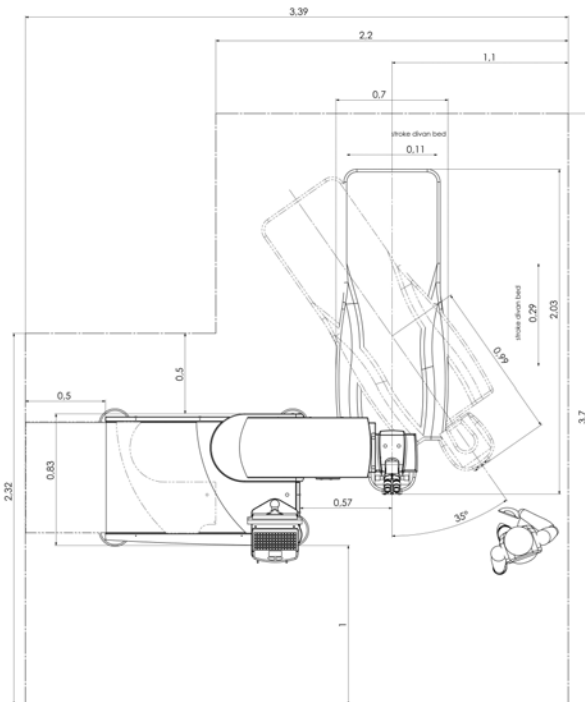
- > Patient Interface Kit consisting of the Patient Interface and a suction ring clip
- > The patented curved interface allows for high surface quality and deepest cutting depth
- > The clip has a flexible and soft silicone lip which adapts comfortably to the eye
- > Reduced increase of IOP during the surgery procedure



TECHNOLAS Femtosecond Workstation 520F

BASIC FEATURES

Laser type	Diode Pumped Solid State Laser (DPSSL)
Pulse duration	~ 500fs typically
Wavelength	~ 1 μm
Pulse energy	Max. 4 μJ
Pulse frequency	40 or 80 kHz depending on the procedure
Supply	230 VAC ~ 50Hz/60Hz
Power consumption	Max. 16A (max. 3kVA)
Size	See footprint
Weight	Approx. 700 kg
Room conditions	Temperature maintained between 19°-23°C / 66.2° -73.4°F Humidity controlled and maintained between 30% and 60%, not condensing



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SOFTWARE MODULES

INTRACOR™ MODULE

Currently for presbyopia correction.

Range	Near addition > 1.50 D Mild hyperopes up to +0.75 D
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CUSTOMFLAP® MODULE

Allows for LASIK Flap cuts.

Diameter	from 6 to 9.5 mm*
Depth	up to 200 μm
Hinge position	variable in 5° steps
Side cut angle	from 60° to 120°

CUSTOMSHAPE® MODULES

ICRS

Preparation of tunnel cuts to implant Intracorneal Ring Segments.

Diameter	from 5 to 9.5 mm*
Tunnel width	max. 2 mm
Depth	max. 500 μm

PKP

Allows surgeons to perform a Penetrating Keratoplasty for both donor and host cornea.

Diameter	from 3 to 9.5 mm*
Depth	max. 1550 μm *

LKP

To perform anterior Lamellar Keratoplasty.

Diameter	from 3 to 9.5 mm*
Depth	max. 600 μm

FLEK

To perform posterior Lamellar Keratoplasty.

Diameter	from 6 to 9.5 mm*
Depth	min. 200 μm

AK

To treat corneal astigmatism, generates arcuate cuts.

Cutting technique	single or double cut
Radius	max. 4.75 mm*
Angle	free choice
Depth	max. 800 μm

* depending on desired depth