

Customized, proven procedures for precise outcomes.

ZEISS Laser Vision Correction



ZEISS supports your practice with a Laser Vision Correction portfolio, including proven technology of the MEL® 80 excimer laser and VisuMax® femtosecond laser from ZEISS. For an enhanced workflow, combine both lasers to offer your patients one of the most comprehensive Laser Vision Correction portfolios.

Treatment method		LASIK		SMILE
Treatment type		Microkeratome-LASIK	Femto-LASIK	
Refractive condition	Myopia	✓	✓	✓
	Hyperopia	✓	✓	
	Astigmatism	✓	✓	✓
Features	Energy optimized ablation profile	✓	✓	
	Flapless			✓
	Minimally invasive			✓
ZEISS device		MEL 80	VisuMax-MEL 80	VisuMax

Solutions for refractive and therapeutic laser surgery.

ZEISS Refractive Laser Landscape



VisuMax femtosecond laser

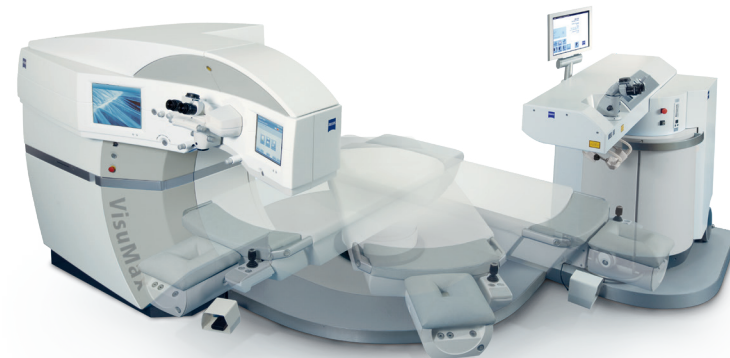
- ReLEx SMILE¹ application for minimally invasive refractive surgery
- High-precision flaps
- Excellent clinical outcomes
- Smooth stromal bed surfaces
- Prevents unnecessarily raised IOP
- High reproducibility and flap thickness consistency
- Easy flap positioning
- Optimum workflow
- Intracorneal rings¹, Keratoplasty¹

ReLEx SMILE

- Treatment option for patients with myopia and astigmatism
- Optional software upgrade for the VisuMax
- Minimally invasive method
- Excellent clinical outcomes
- Patient comfort
- Majority of upper corneal layers remains intact
- Small incision is less disruptive to corneal nerve plexus
- Avoids cosine effect experienced with excimer laser based treatments

MEL 80 excimer laser

- LASIK
- Precise, efficient, safe and fast performance
- Active 1 kHz eye tracker with excellent feedback speeds and an ultra-rapid infrared camera for exact positioning during the laser treatment



Pivoting patient supporting system

The pivoting patient supporting system combines the VisuMax femtosecond laser with the MEL 80 excimer laser making it possible to move patients comfortably and quickly from one laser to another for an optimal workflow.

¹ Optional

Technical Data



MEL 80 from ZEISS


Type	ArF excimer laser
Wavelength	193 nm
Laser pulse rate	250 Hz
Dimensions (W x D x H)	1.36 m x 0.73 m x 1.48 – 1.70 m with patient supporting system: 3.23 m x 2.38 m x 1.70 m
Surgical microscope	With integrated video camera
Active eye tracker	Infrared, pupil and limbus tracking, 1050 frames per second (fps)




VisuMax from ZEISS

Type	Solid state laser
Wavelength	1043 nm
Laser pulse rate	500 kHz
Dimensions	stand-alone: 4.00 m x 3.80 m 180° setup with MEL 80: 4.50 m x 3.80 m 90° setup with MEL 80: 4.00 m x 4.00 mm
Surgical microscope	With additional slit illumination
System components	Patient supporting system (including platform), integrated uninterruptible power supply (UPS), Video camera with integrated recording



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