

# Customized, proven procedures for precise outcomes

## ZEISS Laser Vision Correction



Seeing beyond

ZEISS supports your practice with a broad Laser Vision Correction portfolio, including proven technology of the CRS-Master®, MEL® 90 excimer laser and VisuMax® femtosecond laser. For an enhanced workflow, combine both lasers to offer your patients one of the most comprehensive Laser Vision Correction portfolios.

Application		PRK			LASIK				SMILE	
Treatment type		Trans-PRK	LASEK	PRK with alcohol or mechanical	Microkeratome-LASIK		Femto-LASIK		Small Incision Lenticule Extraction	
						Micro-monovision		Micro-monovision		Monovision
Refractive condition	Myopia	✓	✓	✓	✓	✓*	✓	✓*	✓	✓*/**
	Hyperopia	✓	✓	✓	✓	✓*	✓	✓*	Clinical investigation	
	Astigmatism	✓	✓	✓	✓	✓*	✓	✓*	✓**	✓*/**
	Presbyopia					✓*/**		✓*/**		✓*/**
Specifics	Considers functional age of the eye					✓		✓		
	Suitable for patients with thin corneas	✓	✓	✓					✓	✓
	Less onset of dry eye post-op								✓	✓
Customized treatments	Topography-guided***	✓	✓	✓	✓		✓			
Features	Aberration optimized ablation profile	✓	✓	✓	✓	✓	✓	✓		
	Energy optimized ablation profile				✓		✓			
	Flapless	✓	✓	✓					✓	✓
	Touchless	✓								
	Minimally-invasive								✓	✓
Laser		Excimer laser	Excimer laser	Excimer laser	Excimer laser	Excimer laser	Femtosecond and excimer laser	Femtosecond and excimer laser	Femtosecond laser	Femtosecond laser
ZEISS device		MEL 90	MEL 90	MEL 90	MEL 90	MEL 90	VisuMax-MEL 90	VisuMax-MEL 90	VisuMax	VisuMax
		CRS-Master	CRS-Master	CRS-Master	CRS-Master	CRS-Master	CRS-Master	CRS-Master		
ZEISS option						PRESBYOND®		PRESBYOND	SMILE®	SMILE

\* Presbyopic patients    \*\* Depending on local approval    \*\*\* Treatment Planning station CRS-Master is necessary

# Solutions for refractive and therapeutic laser surgery

## ZEISS Refractive Laser Landscape

### VisuMax femtosecond laser

- SMILE<sup>1</sup> software 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 rings<sup>1</sup>, Keratoplasty<sup>1</sup>, CIRCLE<sup>1</sup>

### CRS-Master for customized treatments

- PRESBYOND<sup>1</sup> Laser Blended Vision for presbyopic patients
- Advanced treatment planning tool
- Remote planning of customized topography-guided treatments
- Remote planning of regular treatments

### MEL 90 excimer laser

- PRESBYOND Laser Blended Vision with CRS-Master
- PRK, LASIK, PTK
- Precise, efficient, safe and fast performance
- FLEXIQUENCE<sup>®</sup> switch function
- Intraoperative ablation speed of up to 1.3 seconds per diopter



### SMILE

- Application for patients with myopia and astigmatism
- Optional software upgrade for the VisuMax
- Minimally invasive
- Excellent clinical outcomes
- Patient comfort
- Majority of upper corneal layers remains intact

### Pivoting patient supporting system

The pivoting patient supporting system combines the VisuMax femtosecond laser with the MEL 90 excimer laser making it possible to move patients comfortably and quickly from one laser to another for an optimal workflow.

### PRESBYOND Laser Blended Vision

- Application for patients with presbyopia
- Optional software upgrade for CRS-Master
- Forms a perfect fit with MEL 90
- Enables a advanced LASIK surgery
- Expanding the repertoire of customized refractive Laser Vision Corrections

<sup>1</sup> Optional

# Technical Data

## CRS-Master from ZEISS

<b>Dimensions (W x D x H)</b>	Max. 1.06 m x 0.42 m x 1.51 m
<b>Data transfer</b>	USB flash memory drive (USB memory stick)
<b>Data printout</b>	Via network connection with Ethernet cable and optional network isolator



## MEL 90 from ZEISS


<b>Type</b>	ArF excimer laser
<b>Wavelength</b>	193 nm
<b>Laser pulse rate</b>	FLEXIQUENCE 250 Hz / 500 Hz
<b>Dimensions (W x D x H)</b>	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
<b>Surgical microscope</b>	With integrated video camera
<b>Active eye tracker</b>	Infrared, pupil and limbus tracking, 1050 frames per second (fps), Manual ablation center selection, Automatic Pupil Center Shift Connection



## VisuMax from ZEISS

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




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