

ZEISS O-SELECT

Specifications

Version: November 2017



System description

Sensor mounts	ZEISS optic with grayscale camera
Measuring range (FOV= field of view)	114 x 91.5 mm Max. workpiece height: 60 mm
With motorized measuring field enlargement (moveable shifting table)	214 x 91.5 mm
With coaxial incident light	107 x 55 mm
Software	ZEISS NEO select

Sensor

ZEISS optics	Double telecentric ZEISS optics featuring a 2D camera sensor with image processing functionality, autofocus and automatic lighting adjustment. Working distance 125 mm, 2x8-segment ring light, transmitted light, optional coaxial incident light.
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Accuracy ¹⁾

Length measurement error ²⁾ MPE as per ISO 10360-7:2011	EB XY (2D)	in μm	18°C - 22°C 18°C - 26°C 18°C - 30°C	4.5 + L/100 8.5 + L/100 10.5 + L/100
Repeatability range of EB MPE as per ISO 10360-7:2011		in μm		0.9
Probing error MPE as per ISO 10360-7:2011		in μm		4

Recommended environmental conditions for permissible measurement error

Permissible humidity (without condensation)		40 % - 70 %
Ambient temperature		18 °C - 22 °C
Temperature fluctuations	per day	2.0 K/d
	per hour	1.0 K/h
	spatial	1.0 K/m

Dynamics of Focusing Axis

Travel speed	in mm/s	Axes	0 to 40
Acceleration	in mm/s ²	Axes	200

Requirements for operational readiness

Ambient temperature	17 °C - 35 °C
Electrical power rating	100-240V VAC ~ (± 10 %); 50 - 60 Hz (± 3.5 %) Max. power consumption: 160 VA (without PC)

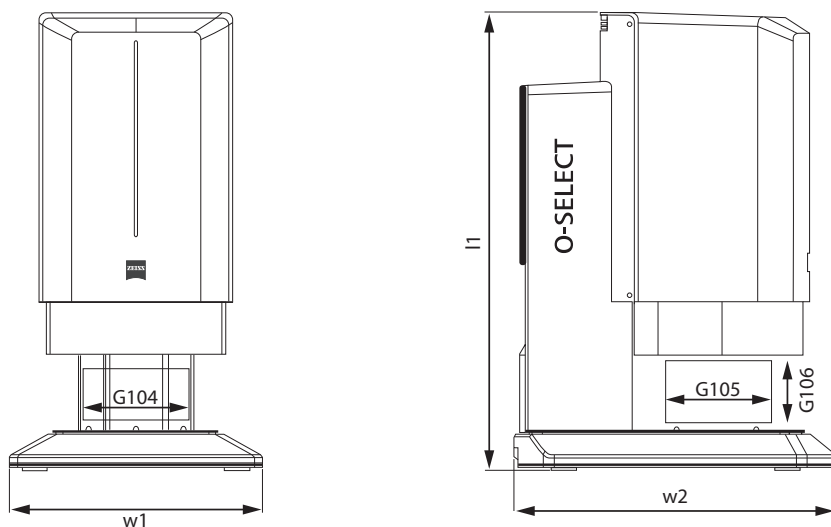
Technical features

Controller	CNC-Controller SC9
Support glass	Scratch-resistant sheet of glass, featuring Schott Xensation quality
Data technology	Delivered with a fully equipped workstation

1) Within the focal plane

2) Measuring length L in mm.

ZEISS O-SELECT	Dimensions in mm						Weight in kg	
	Footprint			Measuring range		Max. work-piece height	Max. workpiece	Profile projector
	w1	w2	l1	G104	G105	G106		
	402	510	727	114	91.5	60	4	28
With coaxial incident light	402	510	727	107	55	60	4	28.5
With measuring field enlargement	402	510	727	214	91.5	60	4	31
Transport Package (without PC)	Size (with pallet): 640 x 600 x 950 mm Weight: 40 kg							



Optional equipment

The specifications are only valid when using original accessories from ZEISS.

Coaxial incident light ^{1) 2)}

Optional adapter

Measuring field/workpiece height

X = 107 mm, Y = 55 mm
Max. workpiece height = 30 mm

Length measurement error ²⁾ MPE as per ISO 10360-7:2011

EB XY (2D) in μm 18°C - 22°C 15 + L/100

Measuring field enlargement ³⁾

X axis optional motorized measuring field enlargement

Measuring field/workpiece height

X = 214 mm, Y = 91.5 mm
Travel range: 100 mm
Max. workpiece height = 30 mm

Length measurement error ²⁾ MPE as per ISO 10360-7:2011

EB XY (2D)

Measurement accuracy in the image
Accuracy with travel movement

in μm 18°C - 22°C 4.5 + L/100
in μm 18°C - 22°C 20 + L/100 μm

Approvals

Regulations

The ZEISS O-SELECT complies with EC machine directive 2006/42/EG and EMC directive 2014/30/EU.



Disposal

ZEISS products and packaging returned to us are disposed of in accordance with applicable legal provisions.

Certifications/accreditations

Quality management system

ISO 9001:2008
VDA 6, Parts 4, 2. Version 2005

Environmental management system

ISO 14001:2004

Occupational health & safety management systems

BS OHSAS 18001:2007

Accredited

ISO/IEC 17025:2005

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