

Hyperion compact

Non-contacting 3D profilometer system.

- ▶ Roughness
- ▶ Shape
- ▶ Topography

→ OPM ←

Optische Präzisionsmesstechnik

See the difference!

Hyperion compact

Non-contacting 3D profilometer system.

The versatile and precise machine for non-contacting acquisition of profiles and topographies

Hardware

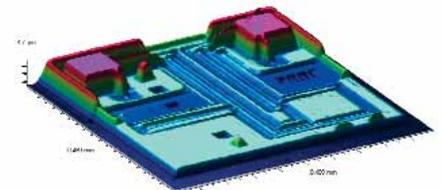
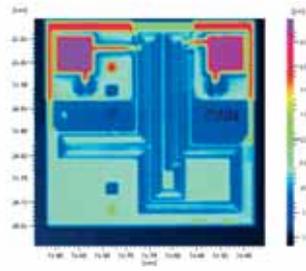
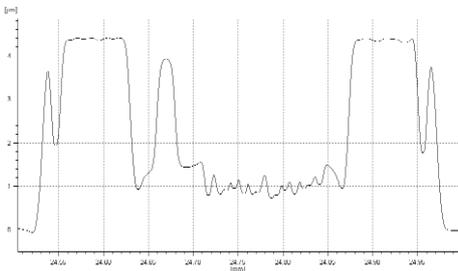
- ▶ Vibration-cushioned all-granite construction
- ▶ High-resolution positioning system
- ▶ Backlash-free recirculating precision ball screw
- ▶ Superior repeatability
- ▶ Integrated OPM motor controller electronics
- ▶ Compact design, small footprint

Features

- ▶ Versatile multi-sensor system
- ▶ CCD camera positioning aid and supervision
- ▶ Superior measurement speed

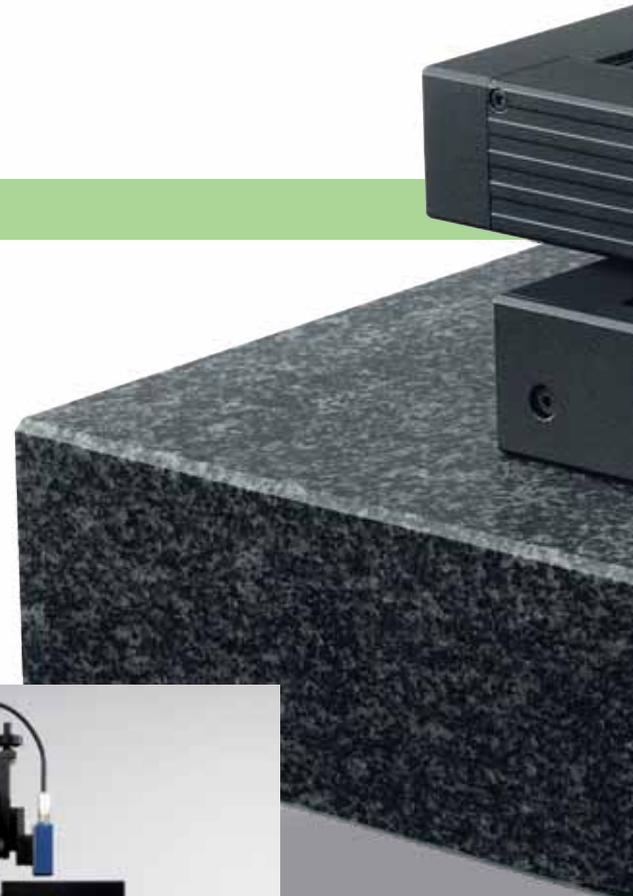
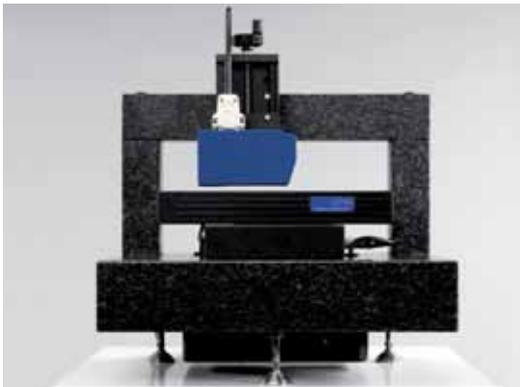
Software

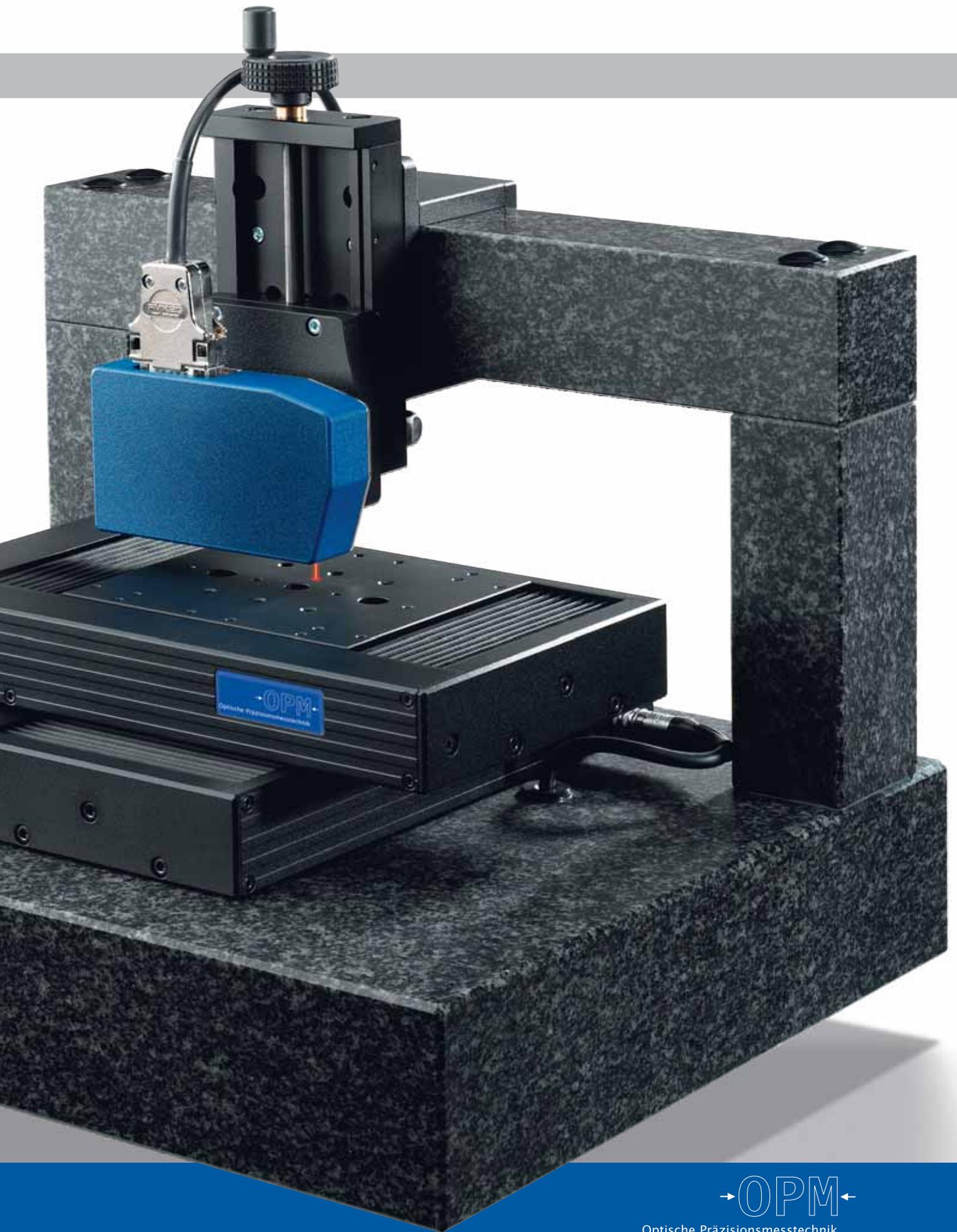
- ▶ OPM Inspector measurement and analysis software
- ▶ Automation of measurement tasks
- ▶ Extensive visualisation and analysis capabilities
- ▶ DIN/ISO parameter evaluation
- ▶ Windows® based software



Technical Data

Travel range	50 x 50 mm to 200 x 200 mm
Lateral resolution	0.5 µm
Maximum speed	30 mm/s
Maximum sample mass	15 kg
CCD camera	Optional
Motorised z axis	Optional
Vibration dampers	Optional



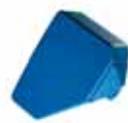


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Hyperion compact

The optimum sensor technology for each measurement task.

	KF3 	KF3 Tele 	AF16 	C1 
Principle of operation	Confocal sensor	Confocal sensor	Autofocus sensor	White light sensor
Light source	Solid state laser	Solid state laser	Solid state laser	Halogen lamp
Laser class (DIN EN 31252)	Laser class 2	Laser class 1	Laser class 1	Not applicable
Measurement spot diameter	<2 µm	2 µm	1.9 µm	5 µm
Measurement range	1000 µm	1000 µm	1500 µm	300 µm
Stand-off	4 mm	13.5 mm	2 mm	4 mm
Resolution	20 nm	20 nm	10 nm	25 nm
Peculiarities	<ul style="list-style-type: none"> - Compact size - Easy operation - Excellent dynamic range - General-purpose sensor for a wide range of applications - Integrated trigger module 	<ul style="list-style-type: none"> - Large stand-off, high numerical aperture, adequate even to sophisticated topographies - Easy operation - Excellent dynamic range - Integrated trigger module 	<ul style="list-style-type: none"> - Integrated microscope - Utilizing a glass scale as a physical standard, no calibration required - Superior linearity - Integrated trigger module 	<ul style="list-style-type: none"> - Miniature size - Entirely passive sensor - Measurement spot size similar to mechanical probes, yielding identical results
Applications	<ul style="list-style-type: none"> - Flatness, altitude or position measurements - Area, thickness or volume calculations - Automatic measurement procedures 	<ul style="list-style-type: none"> - Flatness, altitude or position measurements - Area, thickness or volume calculations - Automatic measurement procedures - Measurements in industrial or inaccessible environments 	<ul style="list-style-type: none"> - Form, flatness, altitude or position measurements - Area, thickness, volume or roughness calculations 	<ul style="list-style-type: none"> - Flatness, altitude or position - Precision distance measurements - Superior for integration into OEM applications - Roughness measurements
Industries	<ul style="list-style-type: none"> - Micromechanical engineering - Optics, telecommunication - Electrical engineering - Electronics industry - Plastics and paper industry - IC packaging 	<ul style="list-style-type: none"> - Micromechanical engineering - Electrical engineering, electronics industry - Optics - Thick film and hybrid - Plastics and paper industry - IC packaging - Tool industry, mechanical engineering 	<ul style="list-style-type: none"> - Thick film and hybrids - Electrical engineering, electronics industry - Optics, telecommunication - Material testing, tribology - Mechanical engineering - IC packaging 	<ul style="list-style-type: none"> - Micro mechanics - Optics, telecommunication - Electrical engineering, electronics industry - Plastics and paper industry - IC packaging - Inspection on thick film, hybrid or PCB boards - Ceramics industry

OPM products and services

Research, development and manufacturing of

- > Laser and white light based sensors
- > Profilometers
- > Application specific measurement solutions

Services

- > Application specific evaluation software, based on OPM Inspector
- > Measurement and evaluation of customer's samples
- > Maintenance, calibration and updates of UBM measurement systems



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