

Other technical data such as

- lateral resolution
- vertical resolution
- or measurement frequency

depend on the controller used and are therefore not listed here.

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We have a small but high-quality selection of chromatic confocal distance probes developed in our laboratories and manufactured in-house.

Further examples of our standard sensors with focusing self-developed

### high-performance aspheres

are to be found on our homepage at

[www.jordan-oe.com/en/products/](http://www.jordan-oe.com/en/products/)

We also develop and manufacture

### customer-specific

chromatic confocal distance probes.

Information about the function of our

### chromatic confocal distance sensors

and

### confocal surface measurement technology

can be found on our homepage at

[www.jordan-oe.com/en/publications/](http://www.jordan-oe.com/en/publications/)

## Jordan Optical Engineering GmbH

Consulting - Development - Production and more  
... everything related to high accuracy optical  
surface metrology - and roughness measurement.

We support you in all aspects of **non-contact  
and high accuracy optical surface metrology  
- and roughness measurement.**

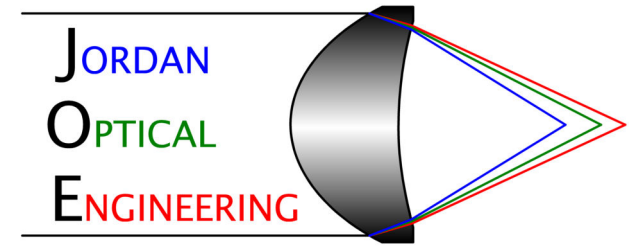
Whether you like to develop new products in this  
area or to implement difficult and technically de-  
manding projects - **we are the experts in these  
fields.**

We have been involved in high accuracy optical  
surface and roughness measurement since 1990.  
Our technology is comparable to traditional stylus  
measurement. With **more than 25 years of ex-  
perience in optical surface and roughness  
measurement** we can therefore guarantee the  
highest levels of reliability to our customers.

Take advantage of our know-how  
... and our versatility  
... and design the optimum system you deserve!

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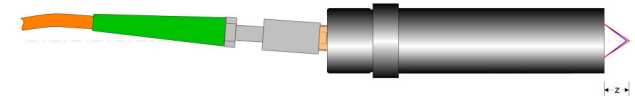


[www.jordan-oe.com](http://www.jordan-oe.com)

### Chromatic Confocal Distance Probe

## RB-400.3

NA = 0.5 / z = 5 mm / dz = 400 µm



You can download this flyer as an **English PDF:**

[www.jordan-oe.com/en/products/](http://www.jordan-oe.com/en/products/)

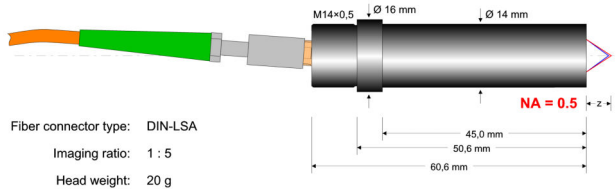
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Sie können diesen Flyer als **Deutsches PDF**  
herunterladen:

[www.jordan-oe.com/de/produkte/](http://www.jordan-oe.com/de/produkte/)

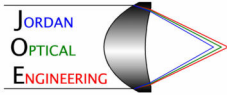
## Technical Data:

### RB-400.3

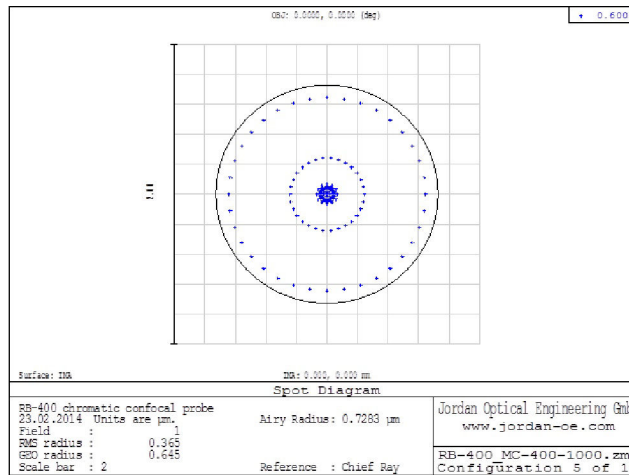
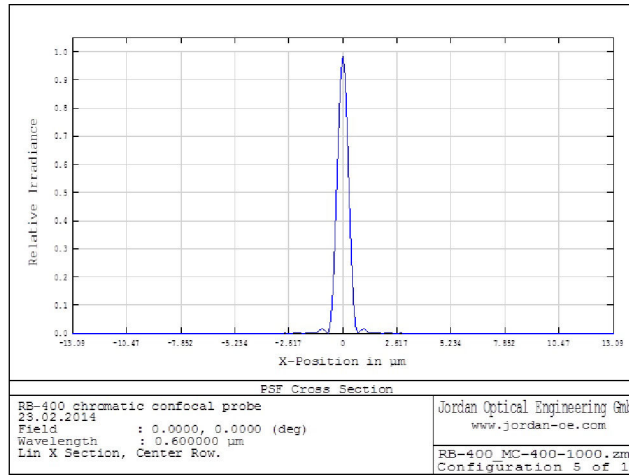
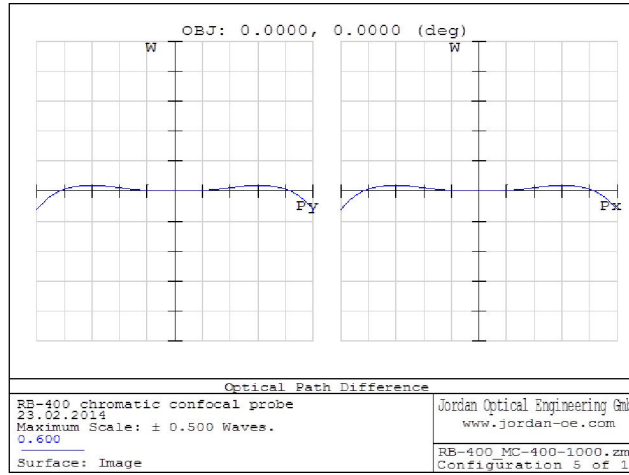


Fiber connector type: DIN-LSA  
 Imaging ratio: 1 : 5  
 Head weight: 20 g

Theoretical values:  
 z = 4.971 mm @  $\lambda = 400$  nm : dz = 0.000 mm  
 z = 5.330 mm @  $\lambda = 600$  nm : dz = 0.359 mm  
 z = 5.454 mm @  $\lambda = 800$  nm : dz = 0.483 mm  
 z = 5.500 mm @  $\lambda = 1000$  nm : dz = 0.529 mm

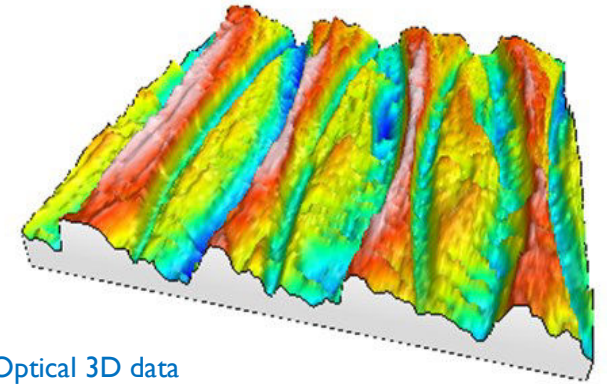


## Optical Performance (at 600 nm):

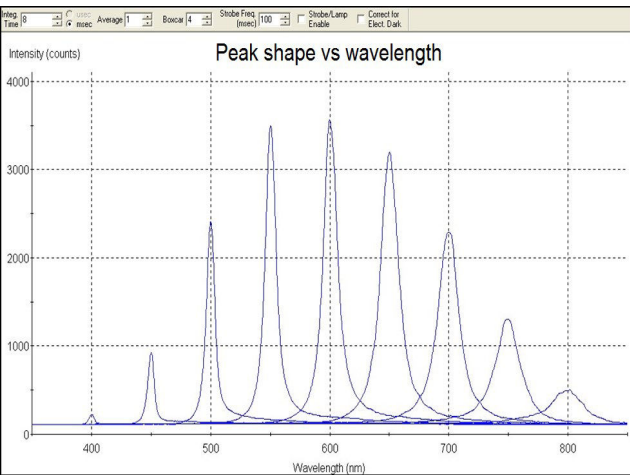
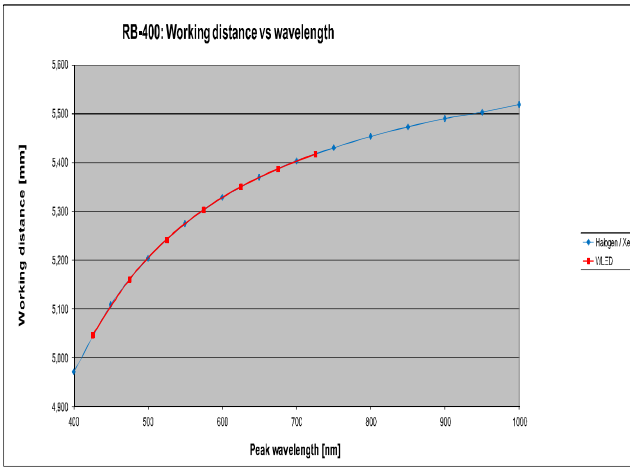
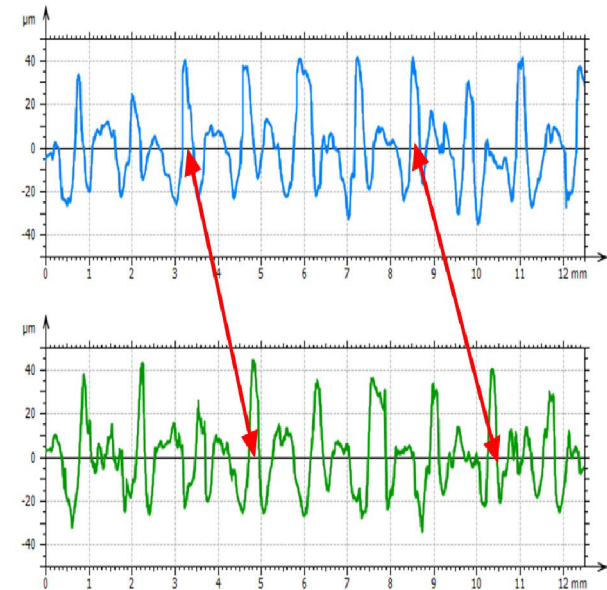


## A typical application: Roughness measurement

### Calibration standard Rugo N10B (face milling)



### Optical 3D data



### Optical Measurement

### Stylus Measurement

ISO 4287		ISO 4287	
Amplituden-Parameter - Rauheitsprofil		Amplituden-Parameter - Rauheitsprofil	
Ra	12.6 $\mu\text{m}$ Gauss-Filter, 2.5 mm	Ra	12.5 $\mu\text{m}$ Gauss-Filter, 2.5 mm
Rz	66.7 $\mu\text{m}$ Gauss-Filter, 2.5 mm	Rz	67.8 $\mu\text{m}$ Gauss-Filter, 2.5 mm
Andere 2D-Parameter		Andere 2D-Parameter	
Rauheitsprofil-Parameter		Rauheitsprofil-Parameter	
Rmax	70.8 $\mu\text{m}$ Gauss-Filter, 2.5 mm	Rmax	71.4 $\mu\text{m}$ Gauss-Filter, 2.5 mm