



## ZEPHYR III 3D laser scanner

- ▶ Large laser line: 150 mm
- ▶ Very fast: 600 000 pts/sec
- ▶ Multipurpose

# ZEPHYR III

DELIVERS THE LONG-AWAITED  
PRODUCTIVITY ON CMM

*Kreon*<sup>®</sup>

# ZEPHYR III 3D SCANNER

The Kreon Zephyr III is designed to meet growing productivity needs on CMMs, especially for large parts. Due to its 150 mm laser line, the Zephyr III is the fastest scanner for the most challenging parts.

## ▶ PRODUCT ADVANTAGE

### Geared to productivity

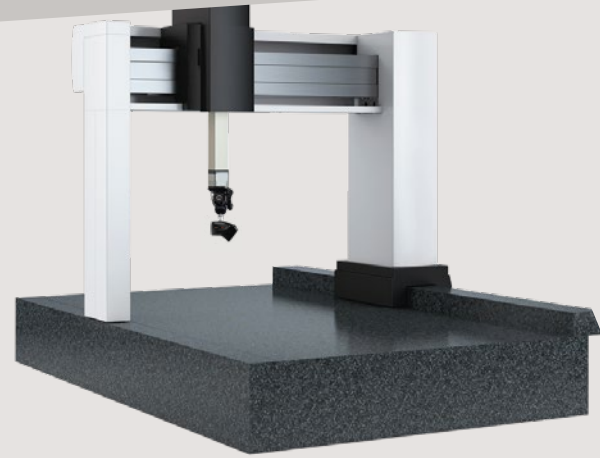
- Broad laser line of 150 mm, unique on CMMs,
- High acquisition speed of 600,000 pts/sec,
- Blue laser consistently delivering optimum measuring quality, even on difficult black or glossy parts.

### Ready for automation

- Compatible with multi-orientation PH10 heads,
- A unique software to drive the CMM, the scanner and to process datas,
- Scanning and probing simultaneously in the same measuring range.

**Zephyr III can be integrated on any system: CMMs, robots, Kreon measuring arms.**

## ▶ TECHNICAL SPECIFICATIONS



*Zephyr III is compatible with many CMMs on the market. Contact us for more details.*

Max scanning speed  
**600 000 pts/sec**

Accuracy ( $2\sigma$ )<sup>\*1</sup>  
**14  $\mu$ m**

Laser line length  
**150 mm**

### ▶ SCANNER SPECIFICATIONS

Line resolution	50 $\mu$ m
Stand-off distance	85 mm
Field of view	110 mm
Temperature compensation	Yes
Max Frequency	300 Hz
<sup>*2</sup> MPL (P[Form.Sph.D95%:Tr:ODS]):	15 $\mu$ m
<sup>*3</sup> MPL (P[Form.Pla.D95%:Tr:ODS])	20 $\mu$ m

### ▶ MACHINE SPECIFICATIONS

Machine interface	Manual and driven CMMs, Kreon arms, AirTrack solutions, robots, CNC, machine tools
Probe compatibility under the scanner	Hard probe, Renishaw TP 2/20/200
Renishaw compatibility	MIH,PH10 T, PH10M/MQ Multiwire, IS1-2 et ACR3
PC communication	USB

*All specifications are subject to change without notification*

*According to ISO 10360-8:2013:*

<sup>\*1</sup> MPE (P[Size.Sph.All:Tr:ODS]): Maximum size error on all measured points (translation mode)

<sup>\*2</sup> Maximum dispersion value on 95% of the measured points on a sphere (translation mode)

<sup>\*3</sup> Maximum dispersion value on 95% of the measured points on a plane (translation mode)

## ▶ COMMON KREON LASER SCANNERS FEATURES

### Polygonia software and plugins

Scanner interoperability with major third-party programs: Metrolog, PowerInspect, PolyWorks, Capps, Geomagic, Inca 3D, etc.

### AQC (auto quality check)

Automatic compensation of the different material's optical characteristics during scanning.

### Integrated probe under the scanner

Probing and scanning operate simultaneously in the same measuring range without removing the scanner.

## ▶ MAIN APPLICATIONS

- Dimensional analysis
- Quality control
- Rapid prototyping
- First article inspection
- Reverse engineering
- Surface acquisition



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