

ZEPHYR III

THE LONG-AWAITED PRODUCTIVITY ON CMM

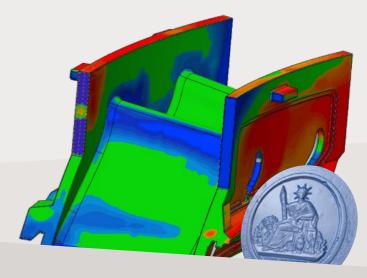


Rapid Scan 3D

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ZEPHYRIII





3D SCANNERS RANGE

TURN YOUR CMM INTO A SCANNING MACHINE

The Zephyr III range benefits from Kreon[®]'s 30 years of experience in manufacturing and integrating 3D scanners on CMMs.

3D scanners are a valuable addition to digitally controlled CMMs, maximizing their potential. Thanks to the time saved, they meet both production and return on investment requirements.

High-tech products, Zephyr III scanners combine precision, speed and resolution, to deliver high quality acquisition data. This requirement for excellence makes it possible to cope with all applications requiring the use of 3D scanning, even the most complex.





Dedicated to high accuracy and resolution scanning on small geometries. No detail can escape it: engraving, drilling, part edge, grooves, etc.

ZEPHYR III 150

THE FASTEST



With a 150mm laser line, it scans the largest parts in record time. Ideal for full surfaces inspection: deformation, assembly, wear, etc.

ADVANCED SCANNING SPEED: laser line 150 mm*

- ▶ Decreased number of scan passes on the part due to max 150 mm laser line*
- Faster movement of the 3D scanner assured by the increased frequency
- ▶ Acquisition speed of 600,000 points/sec, allowing to quickly get a dense point cloud*

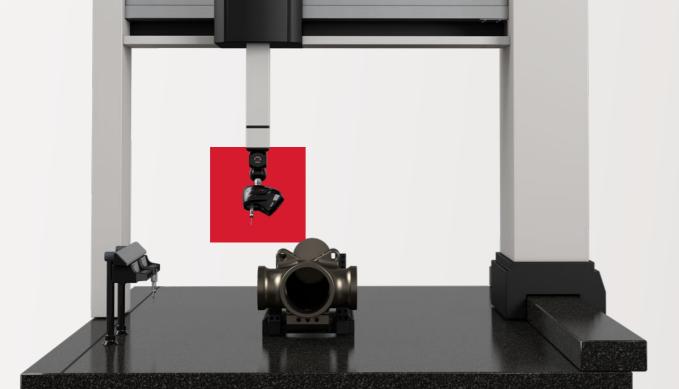
HIGH RESOLUTION 15 μm* AND HIGH ACCURACY 5 μm*

- ▶ 2,000 points per laser line for a high resolution level*
- ▶ Optimal accuracy, even on shiny reflective surfaces, due to blue laser fineness
- ▶ Temperature compensation of the 3D scanner to avoid pre-heating and to maintain a constant accuracy

EASY TO USE

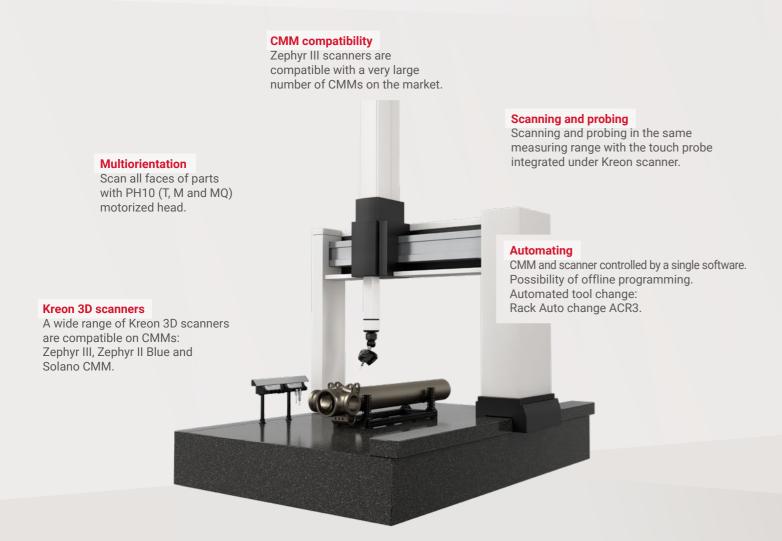
- ▶ Reach and scan the hard-to-access zones of each part, thanks to compactness
- > Touch robe under the scanner to perform scanning and probing in the same measuring range
- > PH10 head mechanism relieved by the lightness of the scanner (400 g)

*maximum values depending on the Zephyr III scanner model. For more information, see the specifications page.

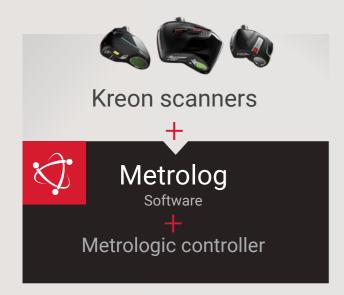




INTEGRATION ON CMMs



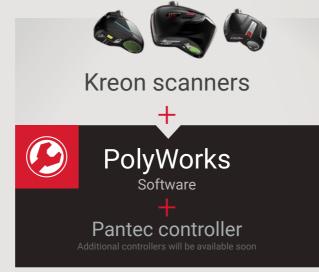
▶ TWO TURNKEY CONFIGURATIONS



Other compatibilities

Software: ArcoCAD, Capps DMIS, Rational DMIS, Inca3D, easy CMM.

Controllers: Renishaw, Deva.



Kreon 3D Scanners can also be integrated on manual machines.

VERSATILITY

Incredibly versatile, Zephyr III scanners can be used on a wide range of machines: CMMs, measuring arms, robots, CNC machines.

Investing in a Zephyr III scanner will allow cross-uses on different machines, for example on CMMs then on Kreon measuring arms.







ROBOTIC INSPECTION WITHOUT TRACKER

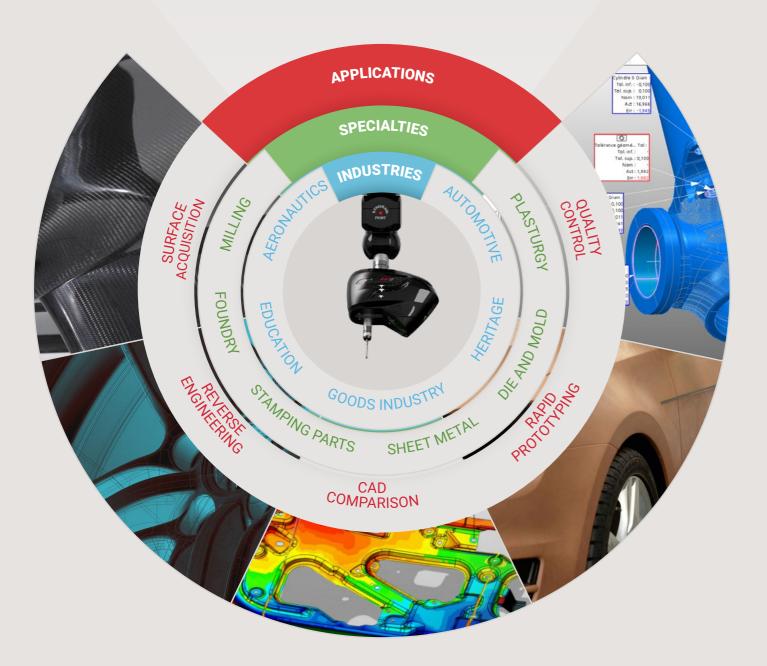
- ▶ High productivity on the production line.
- ▶ Robust and reliable scanner, suitable for workshop conditions.
- Possibility of offline programming to anticipate possible collisions without interrupting production.
- ▶ Driven by Metrolog X4 I-Robot.
- ▶ Compatible with Stäubli robots of the TX range.



APPLICATIONS

Kreon fulfills the needs and expectations of demanding customers regarding quality control, 3D measurement, deviation viewing, providing highly effective measurement solutions since many years.

Zephyr III scanners optimize all your measurement processes



SPECIFICATIONS

ZEPHYR III RANGE

	ZEPHYR III 150	ZEPHYR III 50
Max scanning speed	600.000 pts/sec	600.000 pts/sec
MPE (P[Size.Sph.All:Tr:ODS]) (2σ) *1	14 μm	5 μm
MPL (P[Form.Sph.D95%:Tr:ODS]) (2σ) *2	15 μm	8 µm
MPL (P[Form.Pla.D95%:Tr:ODS]) (2σ) *3	20 μm	10 μm
Max laser line width	150 mm	50 mm
Max frequency	300 Hz	300 Hz
Laser line color	Blue 2M	Blue 2M
Line resolution	50 μm	15 μm
Stand-off distance	85 mm	95 mm
Field of view	110 mm	40 mm
Temperature compensation	Yes	Yes

OTHER SPECIFICATIONS

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

All specifications are subject to change without notification

According to ISO 10360-8:2013:

- *1 MPE (P[Size.Sph.All:Tr:ODS]): Maximum size error on all measured points (translation mode)
- *2 Maximum dispersion value on 95% of the measured points on a sphere (translation mode)
- *3 Maximum dispersion value on 95% of the measured points on a plane (translation mode)

ZEPHYRIII





Contact us for a demo contact@kreon3d.com



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