

**Standard CNC CMM  
CRYSTA-Apex EX 1200R Series**

- **CRYSTA-Apex EX 1200R** Series products are advanced CNC CMMs equipped with the REVO-2 probe head and a choice of probes to create a range of standard 5-axis measuring machines.
- 5-axis operation reduces the time required for probe repositioning movements and allows more flexible positioning. This also facilitates access to complex workpieces and saves time both during programming and measurement.
- Allows ultra high-speed 5-axis scanning (max. 500 mm/s), far surpassing conventional 3-axis control. Support for high-speed sampling of up to 4,000 points per second allows acquisition of densely spaced measurement points, even during fast scanning.

- Internal implementation of laser sensing technology ensures high-accuracy measurement, even with long styli (up to 500 mm\*).

\* Distance from probe rotation center to stylus tip



**CRYSTA-Apex EX 123010R**

**SPECIFICATIONS**

| Items           | Model  | CRYSTA-Apex EX 121210R | CRYSTA-Apex EX 122010R | CRYSTA-Apex EX 123010R |
|-----------------|--------|------------------------|------------------------|------------------------|
| Measuring range | X axis |                        | 1200 mm                |                        |
|                 | Y axis | 1200 mm                | 2000 mm                | 3000 mm                |
|                 | Z axis |                        | 960 mm                 |                        |

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

**CRYSTA-Apex EX 1200R Series Accuracy**

Unit: μm

| Probe used             | Length measurement error*1<br>ISO 10360-2: 2009 |
|------------------------|---|
| REVO + RSP2 + RSH250   | $E_0, MPE = 2.9 + 4L/1000^{*2}$                 |
| REVO + RSP3-3 + RSH3-3 | $E_0, MPE = 2.5 + 3L/1000^{*2}$                 |

\*1 Specifications vary by configuration, size, and thermal environment.

\*2 L = Measuring length (unit: mm)