Asset-Trade
Assessment & Sale of Used Assets

Ref. No.: 1444-10311534

Overview and Technical Data:

Used MITUTOYO CRYSTA-Apex V9208 - 3-axle

MITUTOYO

Mitutoyo

Year of Build: Jan 2020

Description:

Buy used MITUTOYO CRYSTA-Apex V9208 - 3-axis coordinate measuring machine

Sell a used MITUTOYO CRYSTA-Apex V9208 coordinate measuring machine that is in excellent condition. With only around 500 hours of operation, this 3-axis coordinate measuring machine offers excellent precision and speed. Perfect for quality control in the aerospace industry, especially when checking tools for Airbus aircraft.

Operating/spindle hours : 500

Technical data of the MITUTOYO CRYSTA-Apex V9208 used:

- **Measuring range:** X: 900 mm, Y: 2000 mm, Z: 800 mm
- **Length measurement deviation**: from E0,MPE: (1.7+3L/1000) µm
- **Dimensions (WxDxH)**: 1670 x 3220 x3130mm
- **Travel speed**: 519 mm/s
- **3D acceleration:** 2,309 mm/s2
- **Workpiece weight:** 1,800 kg
- **Workpiece height:** 1,000 mm
- **Digit step value:** 0.1 µm
- **Bearing:** air bearings on all axes
- **Area of ??application:** Quality control of tools for Airbus aircraft
- **Condition:** Very good, little used

The Mitutoyo CRYSTA-Apex V9208 CMM was used in the quality control of tools for Airbus aircraft.

The machine is in very good working condition, fairly new and has been used for a few hours every month to check the tools we supplied to the aircraft industry.

The latest generation of the CRYSTA-Apex coordinate measuring machines, the new CRYSTA-Apex V series, packed with the latest technology for carrying out precise measurements at high speed and acceleration. The newly developed "Absolute" scales are extremely resistant to production-related contamination. This new development in the CMM sector means that a one-time setting of the zero position is sufficient for all future measurements. Reference runs, for example when restarting, are no longer necessary,

which saves valuable time.

The SMS functionality enables status and service monitoring, ready for use in the Smart Factory environment.

The investment in CRYSTA-Apex V is future-proof because measuring head systems and measuring software can be easily changed if required or the entire measuring system can be expanded.

- Lightweight materials and an innovative device structure ensure high movement stability, precision and cost-effectiveness
- Low length measurement deviation
- High speed and acceleration
- Integrated thermal error compensation (16°C to 26°C)
- including workpiece using 2 contact temperature sensors
  Newly developed ABS scales make reference runs unnecessary and are particularly resistant to environmental influences
- New controller with SMS functionality (Smart Measuring System)

Core improvements of the V-series compared to the V9208

The new CRYSTA-Apex V-series represents a significant development compared to the V9208. The most important innovations are:

- **"Absolute" scales:** Eliminate the need for reference runs and increase measurement speed and reliability.
- **SMS functionality:** Enables intelligent monitoring and control of the system, which facilitates integration into smart factory environments.
- **Higher speed and acceleration:** Reduce measurement time and increase productivity.
- **Integrated thermal error compensation:** Ensures higher measurement accuracy over a wider temperature range.
- **Lightweight construction:** Improves motion stability and reduces operating costs.
- **Expandability:** Enables future adaptations to new measurement requirements.

Technical details and advantages

The specified technical data underline the performance of the V series:

- High measuring range: Enables the measurement of large workpieces.
- High accuracy: The length measurement deviation is in the range of a few micrometers.
- Fast traversing speed: Reduces the measuring time considerably.
- High acceleration: Allows fast position changes.

- Robust design: Suitable for use in industrial environments.

Areas of application and target groups

The CRYSTA-Apex V series is ideal for companies that require the highest precision and speed in coordinate measurement. Typical areas of application are

- Aerospace industry: measurement of complex components such as turbine blades or fuselage segments.
- Automotive industry: Quality control of precision parts such as engine blocks or transmission components.
- Toolmaking: checking the accuracy of precision tools.
- Research and development: carrying out measurements on prototypes and test parts.

Technical Data:

Technical Data:

Control: CNC
Machine Hours: 500

Dimensions and Weight:

Height: 3.130 mm
Length: 1.670 mm
Width: 3.220 mm
Weight: 3.942 kg

Buyer Information:

Condition: Very good condition
Available: Immediately
Sold as:
EXW (Ex Works - Incoterm)
VAT: 19 %
Buyers Premium: 18 %
Location: Germany

Images:

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