

Model: ZEISS PRISMO 12/24/10 ultra Type: CNC Coordinate Measuring Machine (CMM) with ceramic bridge design

Measuring_Range: X: 1200 mm Y: 2400 mm Z: 1000 mm Table_Height: 595 mm
Accuracy_at_20_22_C: Length_Measuring_Error_MPE_E0: Full_Volume: $(1.2 + L/500)$ μm
Reduced_Volume: $(1.0 + L/500)$ μm Scanning_Probing_Error_MPE_THp: 1.1 μm
Single_Point_Form_Probing_Error_MPE_PFTU: 0.8 μm

System_Features:

- Supports tactile active and passive sensors (MASS technology)
- Compatible with VAST navigator, VAST performance, and VAST XXT
- Integrated PC-based scanning controller (ISC)
- Protection rating: IP54 (controller)
- Thermal insulation of granite base and foundation
- Magnetic temperature sensors for part and structure
- Integrated vibration damping system
- Enclosed X- and Y-axes for stability
- Zerodur scales on all 3 axes
- AirSaver technology to reduce air consumption

Control_and_Workstation:

- Wireless control panel with Bluetooth
- LCD display, dual joysticks, emergency stop
- Docking station, spare battery, and charger
- Workstation: HP Z4 or ZBook 17 G5 laptop
- OS: Windows 10 IoT Enterprise
- RAM: 32–64 GB
- GPU: NVIDIA Quadro
- Storage: Multiple SSDs and HDD
- Monitor: 27" Full HD (2560×1440), HDMI/DisplayPort
- Keyboard, mouse, and USB dongles

- Acronis backup software included

Measuring_Probes_and_Sensors: VAST_Gold_Probe:

- High-speed, high-accuracy tactile scanning
- Collision protection
- Auto-centering ROTOS_Roughness_Sensor:
- Tactile surface roughness measurement
- 3-axis swivel system
- Includes RS-2 probe, electrical interface, roughness kit

Rotary_Table: Model: RT-AB select Features:

- Air-bearing design
- Load capacity: 600 kg
- High precision, minimal runout
- Includes 400 mm faceplate and probe holder

Sensor_Changing_and_Storage:

- Multi-Sensor Rack (MSR), 2-level adjustable design
- Probe holders: 7 pcs
- Probe changers (VAST): 3 pcs

Environmental_Monitoring:

- TEMPAS Starter Kit
- Logic box with 4 temperature sensors
- Mounting kit and cables

Software_Licenses:

- CALYPSO Basic Planner
- CALYPSO Simulation (collision and system simulation)
- CALYPSO Step In/Out (STEP format import/export)
- CALYPSO VAST Performance Package:
- Basic CNC
- VAST Navigator
- VAST Performance
- CALYPSO Curve (2D/3D curve measurement)
- CALYPSO PCM (parameter control manager)

- CALYPSO Roughness (surface roughness evaluation)
- CALYPSO qs-STAT out (qs-STAT format export)
- GEAR PRO (gear measurement and analysis)
- GEAR PRO Q-DAS out (Q-DAS format export)