

QUALISCAN O-FRAME SCANNER

Sensor Traversing Platform

Maximum Ruggedness and Reliability Simple to Maintain

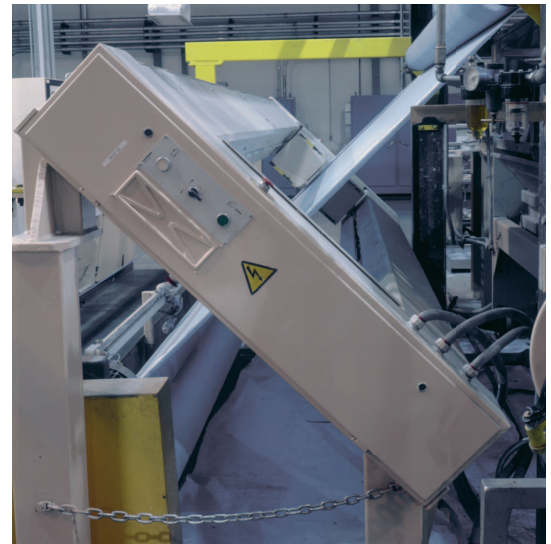
The MAHLO® Qualiscan O-Frame Scanner defines the benchmark to which others strive. Utilizing intelligent scanner technology with on-board processing and ethernet communication, installation is simple and maintainability is maximized.

The rigid steel box construction with high load capacity linear profile rails and bearings allow the Qualiscan O-Frame Scanner to be mounted in any orientation

without reducing life or performance, even horizontally!

All precision machining, welding and assembly is performed in-house in Mahlo's state-of-the-art manufacturing facility, ensuring that the tightest tolerances are met, while facilitating rapid customization for special applications.

Maintenance requirements are minimal yet very easy and inexpensive to perform.



~ Features ~

- Intelligent Design with On-Board Data Processing
- Large Sensor Payload (3 per beam)
- Heavy Duty 4" Steel Reinforced Drive Belts
- Precise Linear Profile Rails and Bearings
- AC Servo Motor Drive
- Sensor Head Separation Coupling
- Automatic Edge Detection
- Industrially Rugged Design
- Stainless Steel, Purging, Cooling Available
- Domestically Available Standard Components
- Modular Carriage Design

~ Benefits ~

- Installation/Wiring Requirements Minimized
- Most Measurements Using a Single Scanner
- Keeps Running even in High Contamination
- Any Scanner Orientation, Very Long Life
- No Routine Drive Motor Maintenance
- Easy Sensor Access, Precise Realignment
- Corrects for Variable Web Width or Wander
- Very Low Cost of Ownership
- Operates in Harsh Industrial Environments
- Parts Readily Available Locally
- Easily Add Future Measurement Sensors

Measurement

Control

Automation

QMS O-FRAME SCANNER - Technical Data

Technical Data	
Scanner Width	Web Width: 30 inches (760mm) to 160 inches (4000mm)
Scanning Speed	1.0 inch/second (1.5 meters/min.) to 12 inches/second (18 meters/min.)
Sensor Payload	Three Sensors, both Upper and Lower Carriages
X-, Y-, Z-Axis Runout	X (Scan Axis [CDI]) ±0.01 inches (±0.3mm)
	Y (Machine Axis [MDI]) ±0.004 inches (±0.1mm)
	Z (Vertical Axis) ±0.004 inches (±0.1mm)
Scan Location Repeatability	±0.010 inches (±0.25mm)
Operating Temperature (without cooling)	32 to 160 degrees Fahrenheit (0 - 70°C)
Cooling	Scanner is Plumbed as Standard for Compressed Air or Liquid Cooling (some components optional)
Intrinsic Safety	Air Purging to meet Class 1, Division 1 requirements (optional)
High Corrosion Environment	Full Stainless Steel Protective Covers Available (optional)
Power	115VAC
Interface	TCP/IP (Ethernet)

