MXProLine™ will help improve your business performance in today’s challenging economic environment. Including the Q4000 Intelligent Scanner, this quality control and process knowledge system provides superior visibility into your process while it simplifies your operational efforts and is easy and cost effective to maintain and service. Improve quality, reduce raw material, services and maintenance costs, and increase production efficiency with a package of solutions that provides the lowest total lifecycle cost available.

Product Brief

The Q4000 O-Frame Scanner with the MXProLine Quality Control System (QCS) provides a high-speed, accurate and robust platform for the full-line of Honeywell quality sensors. The Q4000 builds on more than 40 years of leading the industry with breakthrough measurement technology, including enhanced mechanical performance, significant improvements in signal handling, state of the art engineering tools and advanced diagnostics. The net result is a scanner that is easier and more cost-effective to operate, service and maintain. The Q4000 with MXProLine is capable of delivering full-width, high-resolution profiles at high scanning speeds for every key quality parameter important. It can scan every ten seconds or faster for even the widest machines, enhancing your business performance by improving quality, reducing raw materials and energy consumption, and increasing production efficiency.

Clean-Fast-Reliable-Accurate

- Engineered beams with available integrated thermal equalization effectively eliminate thermally-induced beam deflection and enhances measurement accuracy in non-uniform or changing thermal environments.

- Superior measurement head stability and alignment is achieved with a robust track, head carriage and vector drive system, ensuring reliable operation and easy maintenance.

- Precision signal processing ensures highly accurate profiles with narrow measurement zones and fast scanning rates. Full-width, fast-scanning at up to 1,200 mm/sec [48 in/s], detects profile changes many times faster than conventional slow-scanning systems.

- Internal dust and contamination is eliminated with sealed long-life power tracks, stainless steel lifetime wheels with sealed bearings, and molybdenum polymer inserts.

- A comprehensive set of maintenance tools and diagnostic displays provide a sound environment for service and maintenance.

- MXProLine leverage the full-width fast-scan capability of the Q4000 to simultaneously support the needs of advanced MD & CD process control, process diagnostics and Statistical Process Control, high resolution profile displays, and data collection for plant-wide historians.

- Dynamic Z, X-and Y-axis alignment measurements continuously eliminate weight measurement errors while monitoring the alignment of upper and lower measuring head enclosures, providing at-a-glance verification of the overall physical performance.

Low Lifecycle Cost

The O-Frame Scanner design leverages well-proven techniques to deliver reliable performance. New technologies have undergone extensive testing before implementation, including extended operation in a scanner test chamber at 100°C [212°F] and 95% relative humidity. To allow easy access to all components, the Upper and lower measurement heads are easily separated to facilitate cleaning and service of sensor windows. Furthermore, the scanning measuring heads have removable covers aligned to give easy access to each sensor without obstruction. No messy cooling fluid connections are required for sensor modules.
Stable Support, Fast Precise Measurement

The Q4000 O-Frame Scanner is an integral component of the MXProLine measurement and control system. It is designed for fast, accurate measurement with any complement of sensors, for the widest processes and most hostile production environments.

Basis weight measurements are corrected for sensor gap height changes by the dynamic Z-axis sensor. Accelerometers integrated into the heads provide immediate feedback of any abnormality in the measuring head transport system.

Specifications - Model Q4000 O-Frame Scanner

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Beam Length</td>
<td>Standard: Up to 12.8m [504&quot;] – Dim ‘T’ (Longer available upon request) See scanner dimension Dim ‘J’ &amp; ‘K’ for Safety Clearances to determine Sheet Trim</td>
</tr>
<tr>
<td>Passline Angle</td>
<td>Up to ± 45°</td>
</tr>
<tr>
<td>Scan Speed</td>
<td>Up to 1200 mm/s [48 in/s]</td>
</tr>
<tr>
<td>Environment at Head</td>
<td>Ambient temperature: 93°C [199°F] max Sheet temperature: 100°C [212°F] max Relative humidity up to 95%, non-condensing</td>
</tr>
<tr>
<td>Environment at Cable End</td>
<td>Ambient temperature: 45°C [113°F] max (Forced air cooling kit for endbell is available, contact Product Management)</td>
</tr>
<tr>
<td>Electrical Power</td>
<td>208 to 240 VAC, 15 A, 50–60 Hz; ±3%, single phase</td>
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More Information


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