



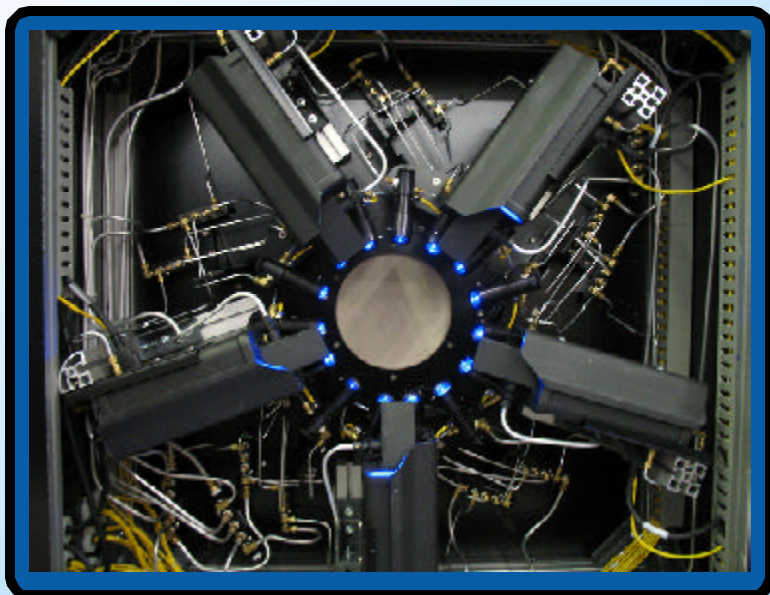
Innovative Photonic Solutions

# CYL-1000

## Turnkey Cylindrical Inspection Module

### KEY FEATURES

- Cylindrical Surface Imaging
- High Speed, High Contrast
- Proven in Harsh Environments
- Complete Inspection Front-end
- Standardized Vision Tools
- Customer Specific GUI
- Patent Pending Design



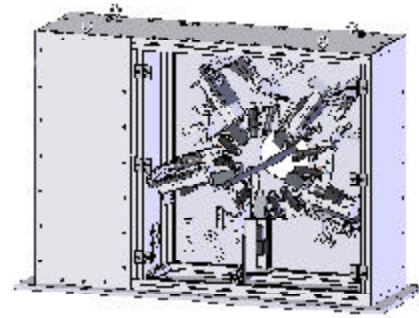
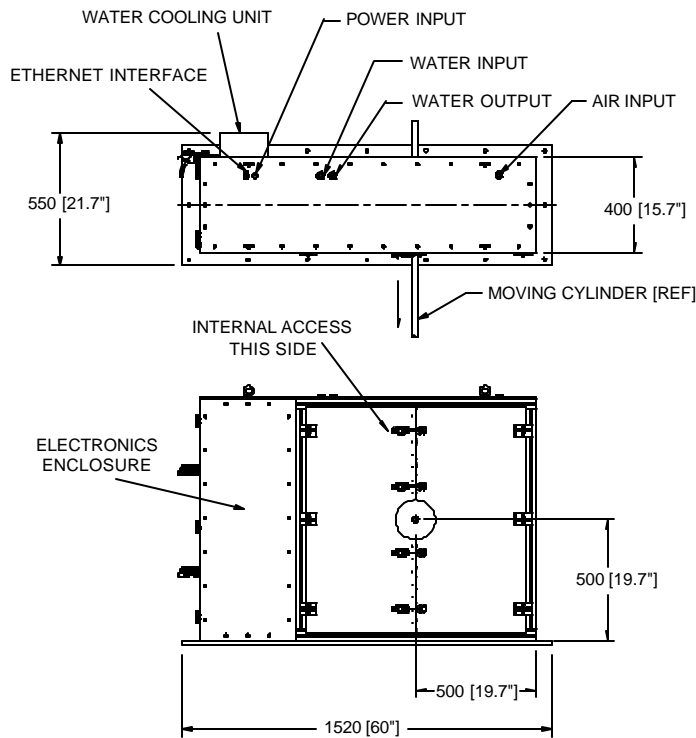
### Cylindrical Surface Imaging

Using patent pending lighting structures, the **CYL-1000** cylindrical inspection modules acquire high resolution, real-time images of cylindrical objects moving at speeds up to and exceeding 30 m/sec. These turnkey front-end modules can be configured to output raw image data via Camera Link or GigE (optional) interface. The unique lighting structure allows industry standard vision tools to detect and classify a wide range of surface characteristics anywhere on the circumference of continuously moving cylindrical objects. These robust and reliable modular products are field proven in many industrial applications, including hot rolled steel rods, extruded barstock, and wire and cable applications. Available in a wide range of applications specific configurations including customized user friendly graphical user interfaces.

### APPLICATIONS

- Hot Rolled Bar & Rod
- Extruded Aluminum
- Wire & Cable
- Pipe & Tubing
- Water Column Analysis
- Pharmaceuticals

# Detail Drawing



NOTE: Specifications May Change without Notice

# Technical Specifications

## Input Requirements

Electrical Power: 100-240VAC 50/60Hz  
 Water Cooling: 5.0 liters/min @ 25C  
 Compressed Air: 25 SCFM @ 100psi  
 System Control: Ethernet 1000 Mbps

## Throughput

Speed (MAX)<sup>+</sup>: 10m/s @ 0.25mm Resolution  
 30m/s @ 0.75mm Resolution

## Output

Live Video Out: Camera Link, GigE optional  
 Image Processing Firmware: Optional  
 Graphical User Interface: Customer Specific  
 Data Transfer: Ethernet 1000 Mbps

## Environmental

Ambient Temperature: 0 to 65C  
 Airborne Contaminants: Active Air Purge

<sup>+</sup>The CYL-1000 inspects continuous cylindrical products over a wide range of speeds. The maximum speed is a function of the absolute resolution required, the maximum diameter of the cylindrical surface to be inspected, and the maximum contrast achievable by the patented pending illumination scheme, which employs long lifetime LED illumination sources which can be provided in a wide range of spectral outputs which can dramatically enhance contrast depending on the application.

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