CORPEX

MACHINE VISION FOR WIRE & CABLE

Real-Time Precision. Intelligent Quality.

CORPEX Machine Vision systems monitor key dimensions at production speed, measuring in real time and alerting operators instantly when values drift out of tolerance.



PRODUCTION INSIGHTS & REPORTING

Trends and reports reduce variation, improve first-pass yield, and prevent repeat defects. Data is stored for audits and troubleshooting.

INTEGRATION & AUTOMATION

Connect directly to PLC, SCADA, MES, and OPC environments for automated alarms, reporting, and process monitoring.

OPERATOR-FRIENDLY INTERFACE

The touchscreen HMI shows live alarms and trends so operators respond fast and maintain quality without slowing production.

ADVANCED VISION & AI DETECTION

High-resolution sensors and AI detect dimensional variation early, reducing scrap and improving consistency for demanding specifications.

Built for Armoring Lines

Designed for armored and convoluted cable manufacturing, CORPEX combines high-speed imaging with AI-based analytics to deliver precise measurement at line speed. The system continuously measures outside diameter, convolution pitch, and product length while maintaining exceptional accuracy and consistency. Logged measurement data supports traceability, trend analysis, and continuous improvement.

Key Benefits

- Real-time OD measurement
- Instant out-of-spec alarms
- Convolution pitch tracking
- Quality data logging
- Optional monitoring
- Production traceability

Real-time OD measurement | **Instant out-of-spec alarms** | **Convolution pitch tracking** | **Quality data logging** | **Optional monitoring** | **Production traceability**

Scan the QR code to view **CORPEX** products, solutions, and contact details for machine vision systems.

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CORPEX

C29 EXPRESS

SYSTEM OVERVIEW

HMI TOUCHSCREEN

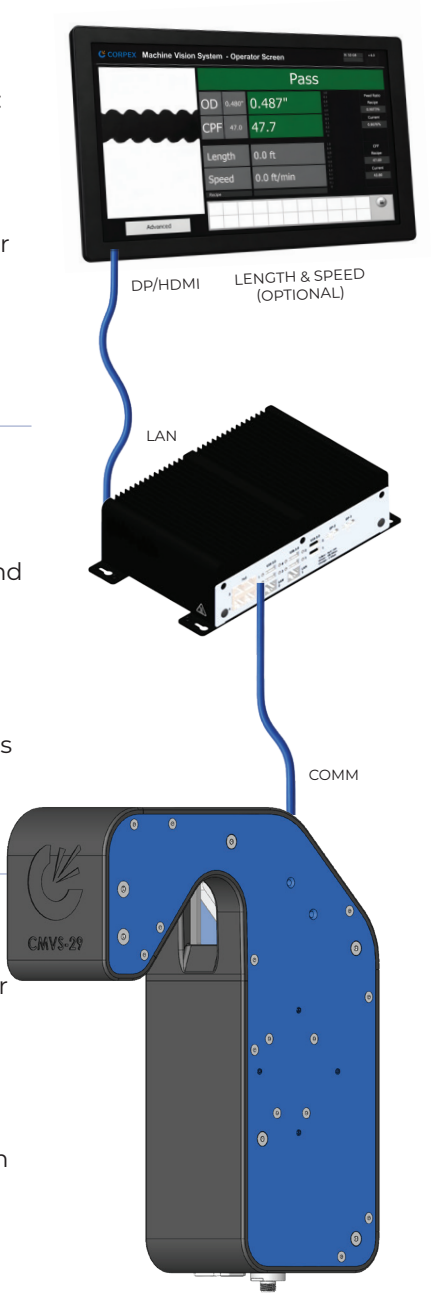
- User-friendly HMI screen displaying live measurements: OD, CPF, length, and speed
- Real-time monitoring for operators to quickly assess product quality
- Advanced engineer screens for parameter adjustments and setup
- Supports tolerance and recipe changes to match different products

INDUSTRIAL MACHINE VISION COMPUTER

- Industrial machine vision computer running all vision and logic processing
- LAN and PoE connectivity for cameras and network integration
- Display and USB ports for screens, setup, and data access
- 24 VDC powered and running the machine vision and AI software stack

MACHINE VISION SENSOR HEAD

- Machine vision sensor head for armored cables up to 29 mm (1.15 in) OD
- High accuracy: ±0.001 in (±0.0254 mm) measurements
- Supports quality specs while reducing waste and inspection time
- 24 VDC powered



C29 SPECIFICATIONS

DIMENSIONS (H × W × D)
13.34 × 3.97 × 11.18 in / 339 × 101 × 284 mm

INPUT POWER
24 VDC — M12 -4 pin Connector Female

OPERATING TEMPERATURE
32°F to 122°F / 0°C to 50°C

COMMUNICATION
1× Ethernet

OPERATION
Integrated HMI

OPERATOR INTERFACE
Operator and supervisor screen

MEASUREMENT UNITS
Imperial

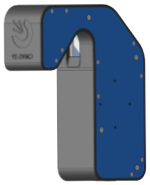
TARGET OD RANGE
0.20–1.15 in / 5–29 mm

ACCURACY
±0.001 in @ 80 ft/min / ±0.0254 mm @ 25 m/min

MAX PITCH
0.65 in (18 CPF) / 16.5 mm (59 CPM)

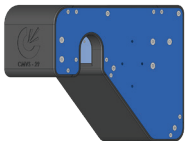
SMART LIGHT
Flexible mounting (optional)

PRODUCT RANGE



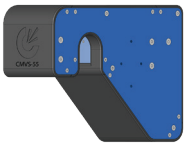
C29 EXPRESS

Compact system for **OD up to 29 mm (1.15”)**, with real-time measurement for armoring and convolution production.



C29 ADVANCED

Compact system for **OD up to 32 mm (1.25”)**, with real-time measurement for armoring and convolution production.



CMVS 55 EXPRESS

Compact system for **OD up to 55 mm (2.2”)**, built for high-volume production with stable measurement and reporting.

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