

Piezo Force Ring Sensor

High sensitivity Dynamic sensor for crimp force monitoring applications



Crimp Force Monitoring



Monitoring your wire crimping process and knowing when manufacturing conditions are changing is critical in detecting errors, and eliminating unnecessary scrap.



High Performance

- Excellent sensitivity and repeatable performance.
- Ideally suited for general-purpose crimp monitoring applications.

Integration

- Mechanical mounting into the ram of the press.
- Designed for installation onto existing or new presses .

Compatibility

- Universally adaptable to a wide range of press models and sizes from 2 to 10+ tons.
- Electrically compatible with most Crimp Force Monitor systems.

Reliability

- Piezo-based sensor technology with a high level of resolution, ram of the press.
- Designed for repeatability, and reliability.
- Hermetically sealed sensor unaffected by lubricants.
- Built-in IEPE electronic circuit facilitates signal output transmitted over long cable distances using standard coax cable with no degradation from electrical or magnetic noise.

- Force exerted through the press coupling during the crimping process is converted into high resolution electrical signal.

Crimp Force Monitors

- OES Force Ring sensors interface with OES's crimp force monitors.

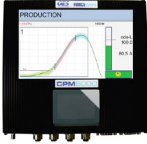
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Quick Facts

Measurement Range	Refer to specific datasheet	lb [kN]
Broadband Resolution	0.1 [0.4448]	Lb-rms [N-rms]
Low-Frequency Response	+/- 143	Hz
Upper Frequency Limit	60000	Hz
Temperature Range Operating	-54 to +121	°C
Supply Current	2 to 20	mA
Supply Voltage	18 to 30	VDC
DC Bias Voltage	8 to 14	VDC
Electrical Connector	Coaxial 10-32 UNF	Type
Mounting Torque	20	Nm
Size	Refer to specific data sheet	mm

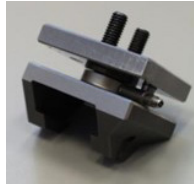
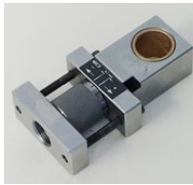
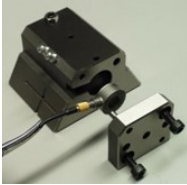
FORCEWorx®



FORCEView™



Typical Force Ring Sensor Mounting locations – in the Ram coupling of the Presses



Widely adopted by the wire processing industry as a proven and effective sensor for assurance of crimp quality.

About OES Technologies

OES Technologies products and technologies are developed specifically for the wire processing industry to monitor and inspect 100% of parts produced during the manufacturing process and prevent part defects from entering the supply chain. OES's dedication to innovation enables them to deliver a steady stream of cutting edge technologies that meet the exacting demands of this ever changing market.

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