

Integrated High Performance Sensor Custom configured as an integral component of the machine SenFit[™]

Custom Sensors



Quality Without Question

OES offers the hardware and software to enable quality control across many industries - Automotive, Medical, Military, Aerospace, Electronic, Food and Beverage. Knowing when process conditions are changing is a costeffective way to improve your quality standards.

Opens new opportunities for dynamic force monitoring applications

Highly Sensitive

- Configurable force range determined by the application provides a high-resolution signature for superior defect detection.
- More sensitive than quartz or piezoelectric sensors

True "Plug and Play"

- The SenFit sensor can be designed as a complete substitute for a machine component.
- Proven to be stable and reliable in a challenging production environment.

Developed & Patented by OES

- SenFit technology has been developed by OES
- SenFit sensors work exclusively with the ForceWorx and ForceCapture line of process monitors

Highlights

- High resolution
- Robust and reliable

No More Shunting Effects

- Overcomes the limitations of conventional sensors including the risk of edge loading. overloading, and shunting.
- Shunting occurs when forces bypass (or are transferred in parallel to) the sensor and proceed into the base of the press.
- Shunting negatively impacts process monitor effectiveness and this is a risk when using mechanically mounted sensors.







Bending

Press Fitting

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Applications		
Forming	 ✓ 	
Cold Heading	 ✓ 	
Stamping	 ✓ 	Se
Mandrel Bending	 ✓ 	Ĩ
Crimping	 ✓ 	Ħ
Assembly		0
Clinching	\checkmark	S
Toxing	 ✓ 	ō
Welding	 ✓ 	3
Riveting	 ✓ 	enFit Custom Sensors
Press Fitting	 ✓ 	, in the second se
Cutting		Ő
Drilling	\checkmark	S
Tapping	\checkmark	
Machining	\checkmark	
Thread Rolling	 ✓ 	

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Sensitivity range	2.2 to 22.0	mV/KgF
Measurement Range (compression)	226 to 2268	KgF
Absolute maximum force	4536	Kg
Frequency range	10	KHz
Non-Linearity	≤1	% FS [1]
Temperature Range (Operating)	-10 to +60	°C
Excitation Voltage	20-30	VDC
Constant Current Excitation	2-20	mA
Output Bias Voltage	4-8	VDC
Housing Material	4140 Tool steel	Туре
Electrical Connector	SMB Coaxial Jack	Туре
Size	Machine specific	
Weight	Machine specific	



Guality Without **Guestion**







Process Variation Monitors

SenFit Sensors interface exclusively with OES's process monitors

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.



OES Technologies

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