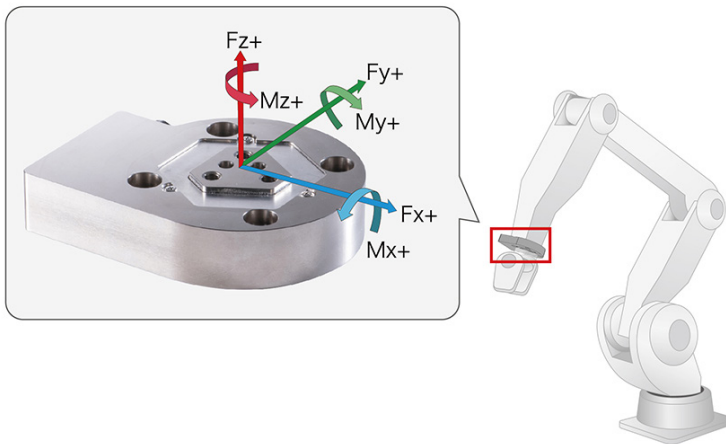


ZYXer™ strain gauge type 6 axis force sensor



FEATURES

- Force/Torque sensor that measures all six components of force and torque: F_x , F_y , F_z , M_x , M_y and M_z
- Measures movement and visualize measured values
- High accuracy and high torque
- Customizable according to your needs
- Improve productivity by replacing manual work with robots

What is a 6-axis force sensor?

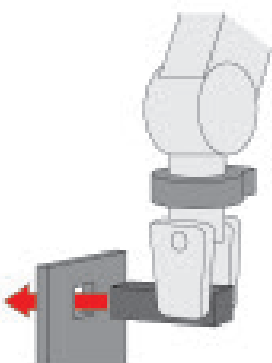
The 6-axis force sensor is a sensor that simultaneously detects the load (F) of 3 axes (XYZ) and the moment (M) around each axis.

By attaching a force sensor, you can give the robot a sense of touch and force.

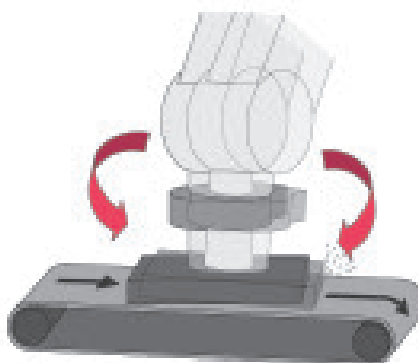
The force sensor, like the 3D vision sensor and AI, is considered to be one of the important products for the intelligent technology of robots.

APPLICATION OF FORCE/TORQUE SENSOR SERIES

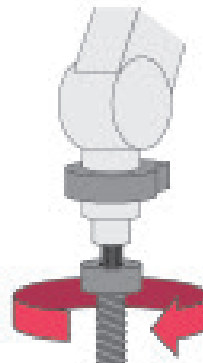
FITTING



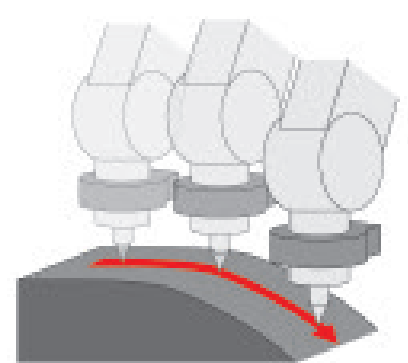
POLISHING



TIGHTENING



FOLLOW CONTOURS



DIMENSIONS

		Low Load Model	Standard Model	Medium Load Model	Heavy Load Model
Size (Dia. mm x Height mm)		Ø 30 x H23	Ø 80 x H22	Ø 80 x H17	Ø 160 x H56
Rated Capacity	FxFy	± 150N	± 500N	± 1,000N	± 5,000N
	Fz	± 150N	± 500N	± 1,000N	± 10,000N
	MxMy	± 2.0Nm	± 20Nm	± 30Nm	± 500Nm
	Mz	± 1.0Nm	± 20Nm	± 30Nm	± 250Nm
Allowable Overload Rated Capacity (RC)		± 200% RC		± 500% RC	± 300% RC
Non-linearity Rated Output (RO)		± 1.0% RO			± 0.5% RO
Other Axis Interference		± 2.0% RO			± 1.0% RO
Hysteresis		± 0.2% RO			
Temperature Characteristics		± 0.3% RO / C°	± 0.2% RO / C°		
Operating Temperature Limit		0-50 C°			
Resolution		± 1 / 4,000 DC			± 1 / 10,000 DC
Output Frequency		1.2 kHz			
Interface		RS-422 (Ethernet, USB2.0, D/A compatible)			
Power Supply		DC5V ± 5% (DC24V / DC 5V compatible)			
Current Consumption		120mATyp			200mATyp
Mass		About 50g	Approximately 280g (without table)	Approximately 500g (without table)	About 8kg
Body Material		Aluminum alloy		SUS	
Rigidity		F: 10um or less M: 50um or less	F: 20um or less M: 40um or less	F:10um or less M: 20 um or less	F:10um or less M: 60um or less
Converter		External	Built-In	Built-In	External



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