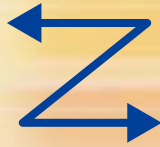


6-axis Force Sensing Control Function

MotoFit



6-axis force sensor

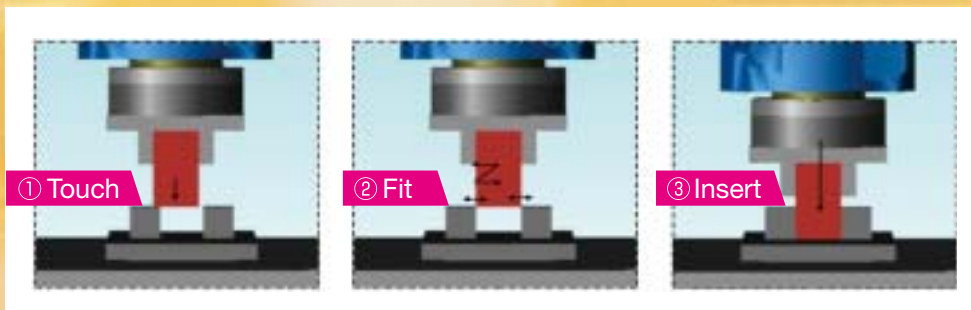


Engineering support tool



Improving robot autonomy Force Sensing Function

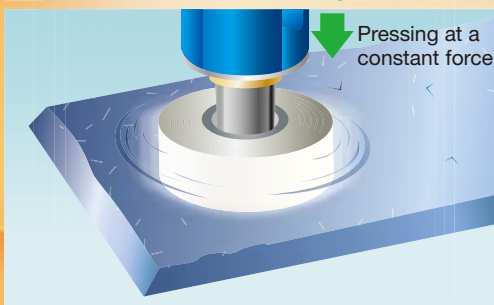
Application 1 Precision fitting



Guarantee a high speed precision fitting of 10 μ m by combining the three controlled operation patterns of touching, fitting, and inserting with force feedback.

Application 2

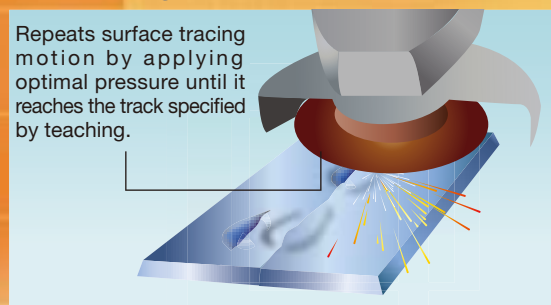
Surface polishing



Improve polishing quality by pressing a workpiece at a constant force.

Application 3

Grinding

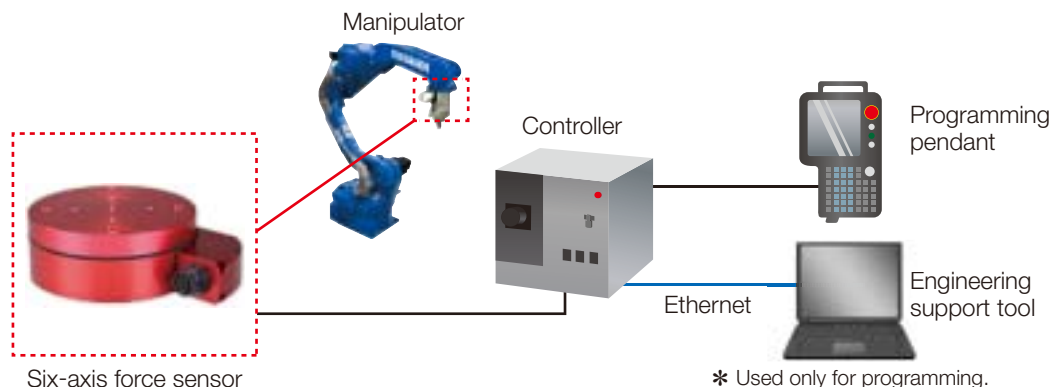


Grinding (e.g., removing welding beads) can be automated by combining position control and force control.

MotoFit can be used for other work applications that require force control, such as tape sticking, fitting inspections, etc.

MotoFit

System Configuration



Force Sensor Specifications

Items		Rating 200N-IP compatible product	Rating 1000N-IP compatible product	
Model		WEF-6A200-4-RC24-YB3	WEF-6A1000-30-RC24-YB3	
Rated Mass	Fx, Fy, Fz	200 N	1000 N	
	Mx, My, Mz	4.0 N·m	30 N·m	
Power Supply Voltage		24 VDC		
Sampling Frequency		2 kHz		
IEC Protection Class		IP65		
EMC Directive Compliance		EN61000-6-4, EN61000-6-2		
Shock Resistance		50 G (number of times: 3, status: no-load)		
Vibration Resistance		5 G (10 kHz to 2 kHz, X/Y/Z: 25 hours each, status: no-load)		
Dimension		80 dia. mm × 32.5 mm (H)	90 dia. mm × 40 mm (H)	
Mass		360 g	580 g	
Motion Function		Fitting	Touching function (dedicated INFORM)	
			Fitting function (dedicated INFORM)	
			Inserting function (dedicated INFORM)	
		Force-tracking function (dedicated macro instruction)		
		Pressing function (dedicated macro instruction)		
		Force-sensing function (dedicated macro instruction)		

Supported Models: Please contact your YASKAWA representative about supported models.

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YASKAWA

YASKAWA ELECTRIC CORPORATION

In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply. Specifications are subject to change without notice for ongoing product modifications and improvements.

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