

## **Almega** Friendly series II

Simpler operation to shorten

new production startup





Fast & Easy System Integration CONTROLLER

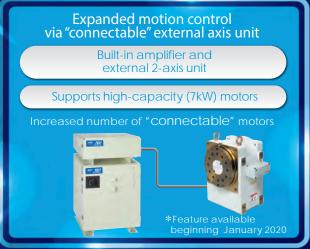


## The limitless potential of extensive "Connectivity"

The versatility to "connect" with facilities, devices and people







"Connects"

from anywhere in the world

Remote

support

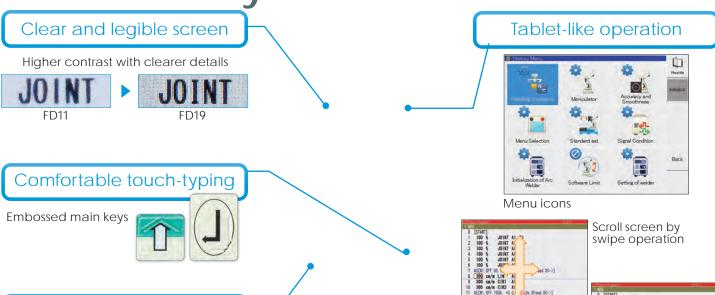
Remote

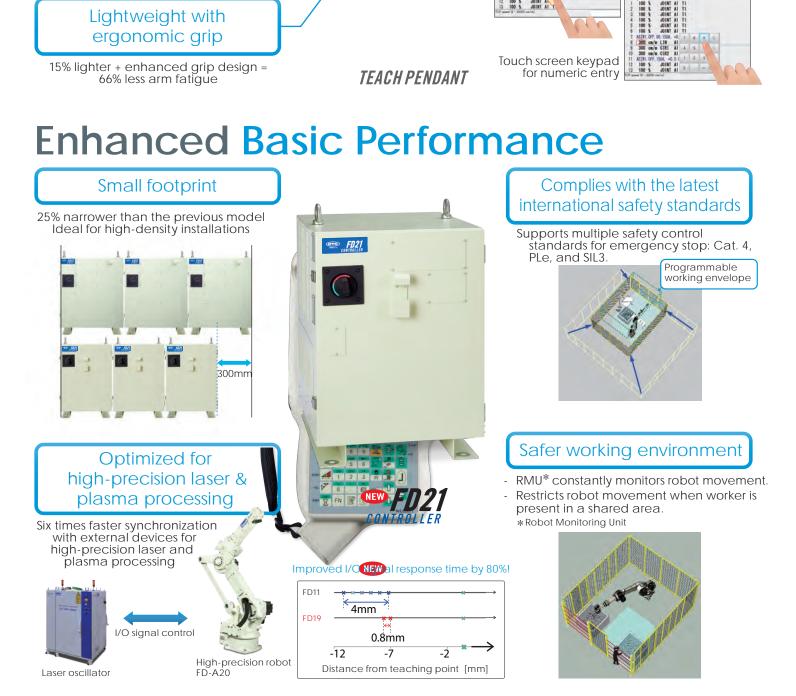
maintenance





Revolutionary Ease of Use





## Basic Specifications of Robot Controller

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	FD21				
Outside dimensions	W440×D542×H640 (mm) (Excluding projections)				
Mass -	FD19-JV/FD19-JL/FD19-JS/FD19-JVP/FD19-JLP: Approx. 119lb (54kg)				
	FD19-JX: Approx. 126lb (57kg)				
Ambient conditions	Temperature: 32-113°F(0-45°C), Humidity: 20-80%RH (Non-condensing)				
Primary power	200/220VAC, 3-phase (+10%, -15%), 50/60Hz				
Power consumption	Manipulator			Power capacity*2	
	NB6, NV8, NB4S, NV6S			1.5 kVA	
	NB6L, NV8L, NB15, NV25, NA20, NB4LS, NV6LS, NV20S			2.4 kVA	
	NH5, NS3			1.0 kVA	
	NV50			5.5 kVA	
	NV80, NV100, NV130			4.1 kVA	
	NV166, NV210			7.0 kVA	
Grounding	Ground the robot co	Ground the robot controller separately (grounding resistance of 100 ohms or less).			
I/O control over external equipment*1	Number of signals	Input/output 8 points each. Extension of input and output is allowed respectively up to 72 points (Optional).			
	Input specifications	Connect relay contact with a minimum applicable load of 5mA or less at 24VDC, or open-collector device with a leakage current of 1mA or less.			
	Output specifications	Relay board 8/8	24VDC/100VAC, up to 1A (Minimum applicable load [reference]: 5mA at 24VDC)		
		I/O board	O board Open-collector device whose rated current is 0.1A or less at 24VDC ± 3V		
Memory capacity	100 million steps (by PTP instruction in a single mechanism)				
lumber of task programs	9,999				
External memory I/F	USB flash drive (Optional)				
Color	10GY9/1, Munsell scale				

<sup>\*1</sup> The number of I/O points can be extended to 2048 by adding an optional field bus (DeviceNet, CC-Link, EtherNet/IP, etc.).





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<sup>\*2</sup> Varies by application & moving pattern.