



Wide Operating Range

Long reach (1567mm/61in)
8kg-payload collaborative robot

High welding performance

Achieves high-quality welding with top-level accuracy

Excellent Usability

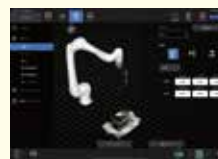
Operation buttons integrated into torch mounting flange for easy operation



New Tablet Teach Pendant

Easy operation

Smartphone-like operation screen



Operation Screen



Equipped with Operation Buttons

Easy teaching

AR Teach functionality provides composite display of photos and robot models, intuitive block programming is implemented



AR Teach



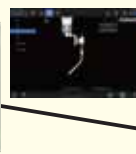
Block-based Programming

Easy setting

Settings can be made without looking at the instruction manual. Tutorial integrated into setup screen



Tutorial on Screen



AR Set-up
Virtual safety fence

Collaborative Robot

FD-VC8

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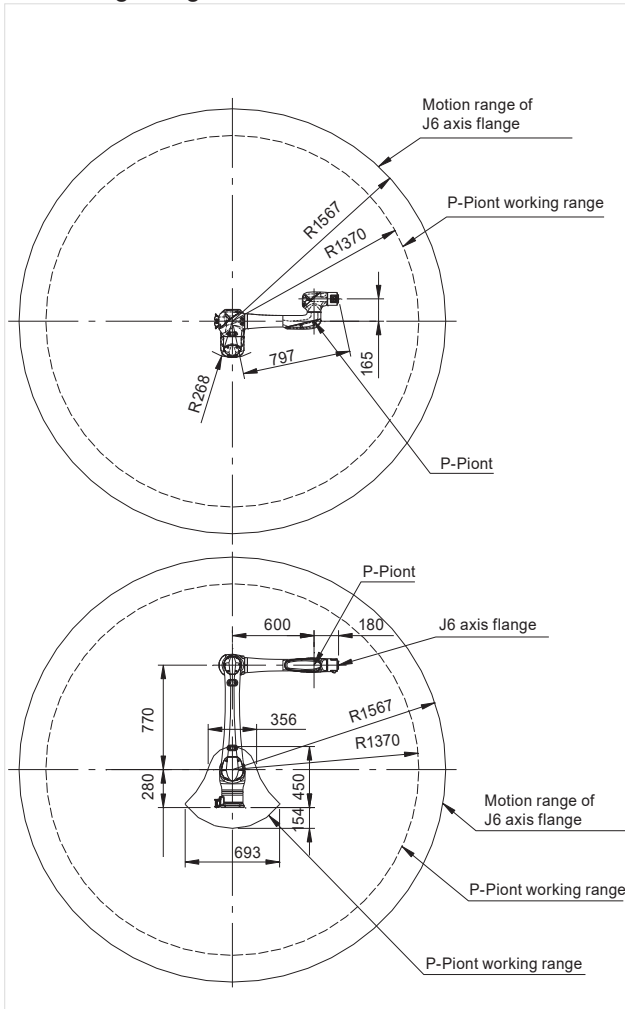
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-Working Range-



-Manipulator Specifications-

Item		Specifications	
Name		NVC8	
Structure		Vertical articulated type	
Number of axis		6	
Max. payload capacity		97lb (8kg) (Note 1)	
Positional repeatability		+/- 0.05mm (Note 2)	
Drive system		AC Servo motor	
Position feedback		Absolute encoder	
Working range	Arm	J1(Revolving)	+/- 180°
		J2(Fwd/Back)	+/- 180°
		J3(Up/Down)	-180°~+250°
	Wrist	J4(Swing)	+/- 210°
		J5(Bending)	+/- 180°
		J6(Twist)	+/- 210°
Max. velocity		39in (1000mm)/s(Note 3)	
Wrist load	Allowable Moment	J4(Swing)	28.0 N*m
		J5(Bending)	20.0 N*m
		J6(Twist)	7.8 N*m
	Allowable moment of inertia	J4(Swing)	1.10 kg*m2
		J5(Bending)	0.60 kg*m2
		J6(Twist)	0.10 kg*m2
Arm operation cross-sectional area		5.64 m2 × 360°	
Ambient temperature and humidity		0~45°C, 20~80%RH (No condensation)	
Mass (weight)		97lb (44kg)	
IP Code		IP65 equivalent	
Installation type		Floor, ceiling or wall hanging type	
Noise level		Less than 70 dB (Note 4)	
Paint color		Aliceblue	

Note:

- 1) The upper arm payload capacity varies depending on the wrist payload capacity.
- 2) The value of the positional repeatability is at the tool center point (TCP) compliant to ISO 9823.
- 3) Risk assessment in the operating environment is required to specify the operating speed.
- 4) Robot noise is A-weighted equivalent sound level measured under "ISO 11201" with rated payload and maximum speed.



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