Articulated Robots Viper 850

Articulated robot for machining, assembly, and material handling

- EtherCAT connectivity to the Omron NJ501-R controller and programming through the familiar IEC 61131-3 programming language or scripting (ev+).
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following and easy calibration.
- High-efficiency, low-inertia Harmonic Drives and a lightweight arm to deliver maximum acceleration.

Max Reach: 855mmMax Payload: 5kgWeight: 36kg



Specifications

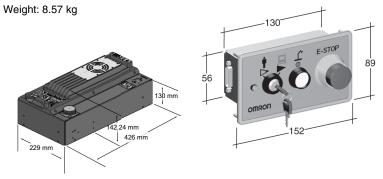
Product name		Viper			
	Size	850			
	Cleanroom/IP	Standard	Cleanroom	IP54/65	
Part Number		RL6-2068000	RL6-2068020	RL6-2068010	
Mounting		Table/Floor/Inverted			
Number of axes		6			
Reach		855 mm			
Maximum Payload		5 kg			
Repeatability	XYZ	±0.03 mm			
Joint Range	Joint 1	±170°			
	Joint 2	-190°, +45°			
	Joint 3	-29°, +256°			
	Joint 4	±190°			
	Joint 5	±120°			
	Joint 6	±360°			
Inertia	Joint 4	0.295 kgm²			
Moment (Max.)	Joint 5	0.295 kgm²			
	Joint 6	0.045 kgm ²			
Joint Speeds	Joint 1	250°/s			
	Joint 2	250°/s			
	Joint 3	250°/s			
	Joint 4	375°/s			
	Joint 5	375°/s			
	Joint 6	600°/s			

Product name		Viper			
	Size	850			
	Cleanroom/IP	Standard	Cleanroom	IP54/65	
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase			
Protection	Base	IP40	IP40	IP54	
	Robot Joints (J4, J5, J6)	IP40	IP40	IP65	
Clean Class			Class10		
Environment Requirements	Ambient Temperature	5 to 40°C			
	Humidity Range	5 to 90% (non-condensing)			
Weight		36 kg			
Basic configuration	Controller	eCS-ECAT			
	On-board I/O (Input/Output)	12/8			
	Conveyor tracking input	2			
	RS-232C serial communications port	1			
	Programming environment	Sysmac Studio 64-bit			
	ACE Sight	Yes			
	ePLC Connect	No			
	ePLC I/O	No			
Connectable c	Connectable controller		Omron NJ501-R Series		

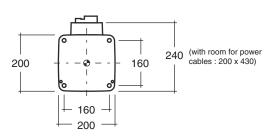
Dimensions (Unit: mm)

Viper 850

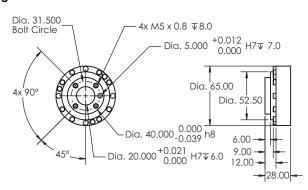
eCS-ECAT Front panel



Footprint



Flange



Robot Parts Code and Bundled Accessories

Туре	Viper				
Cleanroom/IP	Standard	Cleanroom	IP54/65		
Viper 850	RL6-2068000	RL6-2068020	RL6-2068010		
Overview	Robot + eCS-ECAT Robot Controller				
Purpose	To be used in conjunction with NJ501-R Series controller, which can connect up to 8 robots via EtherCAT				
Bundled Accessories	XSYSTEM cable with jumpers and Ethernet Management port, 1, 8m/6ft (13323-100) Front panel kit (90356-10358) Arm power/signal cable, 4 m/13 ft -Standard Model: 05020-000 -Cleanroom & IP54/65 Models: 05463-000				