Adept Viper s 1700

Reach	1717 mm	
Payload (max.)	20 kg	
Joint Ranges		2
Joint 1	± 180°	2
Joint 2	-200°, +65°	
Joint 3	30°, +260°	
Joint 4	± 200°	
Joint 5	± 140°	
Joint 6	± 360°	
Intertia Moment (max.	.)	
Joint 4	0.7 kgm²	
Joint 5	0.7 kgm²	
Joint 6	0.2 kgm²	
Joint Speeds		<u></u>
Joint 1	170°/sec	2
Joint 2	170°/sec	
Joint 3	175°/sec	
Joint 4	355°/sec	
Joint 5	345°/sec	
Joint 6	525°/sec	
Repeatability (XYZ)	± 0.06 mm	
Pass-Through Connec (routed from robot ba	tions se to link four)	
Electrical	24 AWG (x10) 16 AWG (x6)	
Pneumatic	6.5 mm (x1)	
Brakes	All axes	
Internal Solenoids	None (User-supplied)	
Protection	IP-54	
	IP-65 (option)	
Mounting	floor/ceiling	
Weight	280 kg	
Power Requirements S 24 VDC : 5 A	SmartController	
Power Requirements for	PA-4	
200-240 or 380-41	15 VAC : 15 A	



The Adept Viper[™] s1700 robot is part of a high-performance line of 6-axis robots designed for applications such as assembly, material handling, packaging, machine tending, and operations that require fast and precise automation. The Adept Viper s1700 6-axis robot is available in standard, and IP-65 versions.

Product Features and Benefits

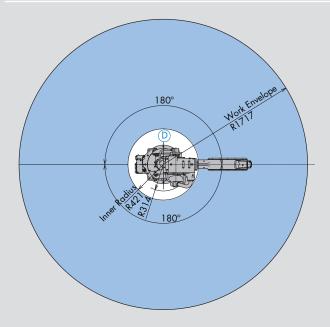
- 1.7 m reach with 20 kg payload capacity
- Adept $ACE^{\text{\tiny TM}}$ software to deploy your applications through a user-friendly interface
- SmartServo controls to ensure superior path following and control
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia drives and a lightweight arm to deliver maximum acceleration
- Complete interchangeability between robots and controllers
- Ethernet TCP/IP capability to control the robot through a PC, PLC, or controller
- Diagnostic display to enable quick troubleshooting



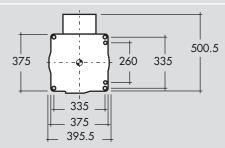
The Adept Viper s1700 6-axis robot comes with the high-performance Adept SmartController™ motion controller, which is based on the Adept SmartServo architecture. It has a small footprint of $329w \times 187d \times 86h$ mm.

Adept Viper s 1700

Dimensions: Adept Viper s1700 (mm)



Dimensions: Footprint (mm)



The Adept Viper s1700 system includes the following:

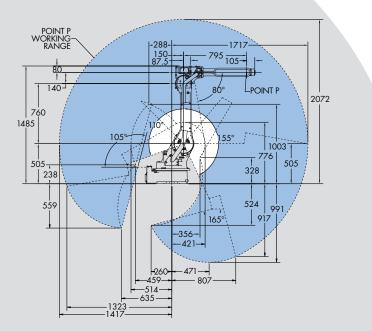
- Adept Viper s1700 robot
- Adept SmartController motion controller
- PA-4 chassis with servo controller and amplifiers
- Front panel with E-Stop
- Adept ACE software
- User documentation

Options and Peripherals:

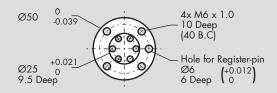
- AdeptSight[™] vision guidance and inspection system (requires a PC–Adept recommends using the Adept SmartVision[™] EX)
- T2 manual control pendant
- Dual robot configuration option
- sMI6 SmartMotion[™] interface
- sDIO I/O expansion (32 digital input and 32 digital output channels)
- Brake box

Downloads:

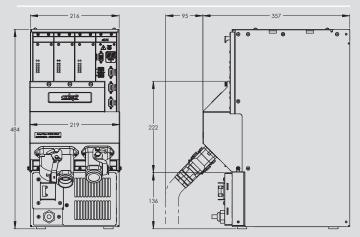
 Download CAD files for the Adept Viper s1700 Robot from http://www.adept.com/support/downloads/file-search using the following download ID: 500509



Dimensions: Flange (mm)



Dimensions: PA-4 (mm)





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