



# Adept Viper s1700D

The Adept Viper™ s1700D six-axis robot is a high-performance articulated robot designed for material handling, packaging, machine tending, and many other operations requiring fast and precise automation. The robust and rigid Viper s1700D offers a long reach of 1.7 m with a payload capacity of 20 kg.

## Product Features and Benefits

- 1.7 m reach with 20 kg payload capacity
- Deploy your applications through a user-friendly interface
- Integrated vision-guidance and conveyor-tracking options
- High-accuracy, high-speed, superior tracking performance and simple calibration
- High moment of inertia capability to deliver maximum acceleration
- Slim base and arm allow robot to be placed close to workpiece to improve part accessibility
- Control the robot through a PC, PLC, or Embedded Software
- Diagnostic display to enable quick troubleshooting



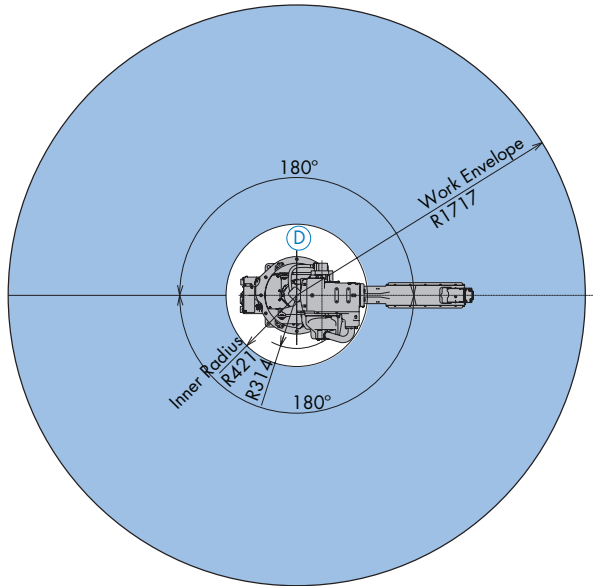
The Adept Viper s1700D 6-axis robot comes with the high-performance Adept SmartController™ motion controller, which is based on the Adept SmartServo architecture. It has a small footprint of 329w x 187d x 86h mm.

## Specifications

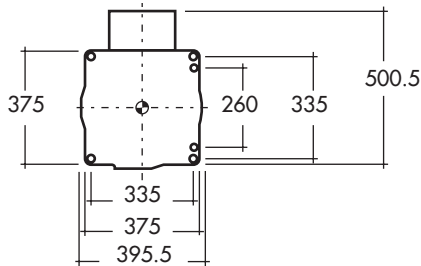
Reach	1717 mm
Payload (max. )	20 kg
Joint Ranges	
Joint 1	± 180°
Joint 2	-200°, +65°
Joint 3	30°, +260°
Joint 4	± 200°
Joint 5	± 140°
Joint 6	± 360°
Allowable Inertia Moment (max.)	
Joint 4	1.05 kgm <sup>2</sup>
Joint 5	1.05 kgm <sup>2</sup>
Joint 6	0.75 kgm <sup>2</sup>
Joint Speeds	
Joint 1	197°/sec
Joint 2	170°/sec
Joint 3	187°/sec
Joint 4	400°/sec
Joint 5	400°/sec
Joint 6	600°/sec
Repeatability (XYZ)	± 0.06 mm
Pass-Through Connections (routed from robot base 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
Mounting	floor/ceiling
Weight	268 kg
Power Requirements for SmartController	
24 VDC : 5 A	
Power Requirements for PA-4 chassis with servo controller and amplifier	
200–240 or 380–415 VAC : 15 A	
3-phase	

# ADEPT VIPER S1700D

## DIMENSIONS: ADEPT VIPER S1700D (mm)



## Dimensions: Footprint (mm)



## The Adept Viper s1700D system includes the following:

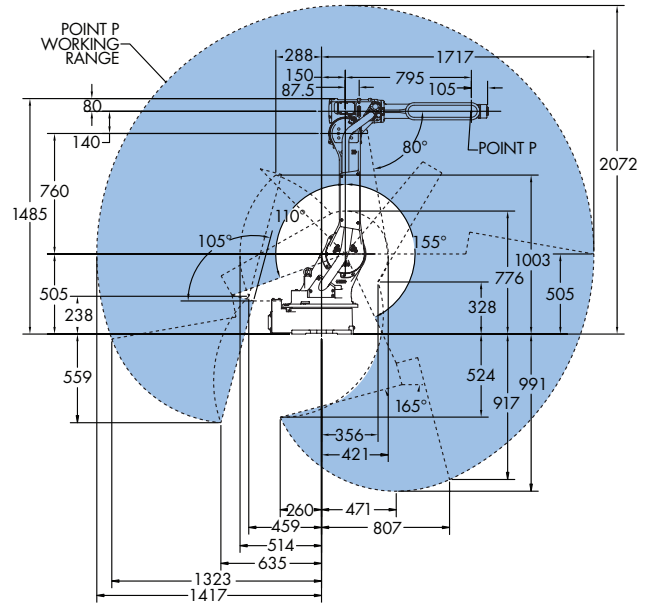
- Adept Viper s1700D robot
- Adept SmartController motion controller
- PA-4 chassis with servo controller and amplifiers
- Front panel with E-Stop
- Adept ACE™ software
- User documentation

## Options and Peripherals:

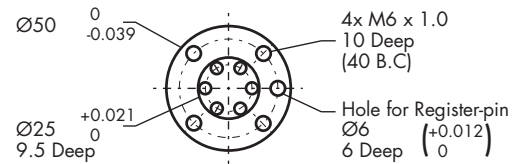
- AdeptSight™ vision guidance and inspection system
- Adept SmartVision™ EX vision processor
- T2 manual-control pendant
- Dual-robot configuration option
- sMI6 SmartMotion™ interface
- sDIO I/O expansion (32 digital input and 32 digital output channels)
- Brake-release box

## Downloads:

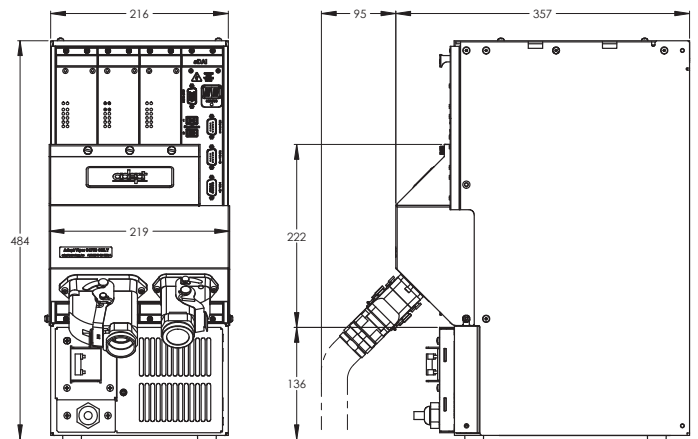
Download CAD files for the Adept Viper s1700D Robot from <http://www.adept.com/support/downloads/file-search> using the following download ID: 500509



## Dimensions: Flange (mm)



## Dimensions: PA-4 (mm)



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