

# Adept Viper™ s1300



## Specifications

Reach	1298 mm
Payload (max)	10 kg
Joint Range	
Joint 1	± 170 °
Joint 2	-180 °, +45 °
Joint 3	+10 °, +255 °
Joint 4	± 185 °
Joint 5	± 120 °
Joint 6	± 360 °
Inertia Moment (max)	
Joint 4	0.36 kgm <sup>2</sup>
Joint 5	0.36 kgm <sup>2</sup>
Joint 6	0.064 kgm <sup>2</sup>
Composite Speed (max)	
	8,300 mm/sec
Joint Speeds	
Joint 1	225 %/sec
Joint 2	168.75 %/sec
Joint 3	187.5 %/sec
Joint 4	375 %/sec
Joint 5	375 %/sec
Joint 6	600 %/sec
Repeatability (XYZ)	± 0.070 mm
Pass-Through User Connections (routed from robot base to outer link)	
Electrical	10
Pneumatic	1
Brakes	Joints 2 - 6
Internal Solenoids	Three 2-position solenoids (connected to controller by user)
Ingress Protection	IP40
Mounting	Floor/Table
Weight	78 kg

The Adept Viper 6-axis robot family is a high-performance line of robots designed specifically for assembly applications. The speed and precision of the Adept Viper robots make them ideal for material handling, packaging, machine tending, and many other operations requiring fast and precise automation. The Adept Viper s1300 six-axis robot is an extended-reach and higher payload version of the Adept Viper s650 and Adept Viper s850 robots.

### Product Features

- Extended reach with 10 kg payload
- Absolute encoders enable easy calibration
- Complete interchangeability between robots and controllers
- High-resolution encoders provide high-precision
- SmartServo controls ensure superior path following and control
- AdeptVision provides added flexibility and lowers integration costs

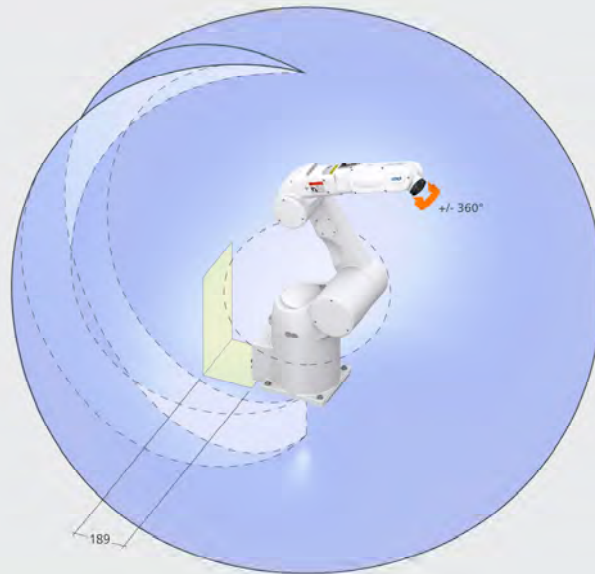
### Benefits

- Ensures system reliability and high production uptime
- Increases productivity
- Enables higher product mix and changeover
- Reduces integration costs
- Accelerates time to market
- Provides increased flexibility and accuracy through integrated vision guidance

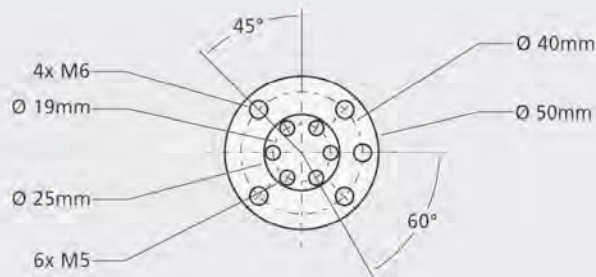
# Adept Viper™ s1300

## Dimension Adept Viper s1300 (mm)

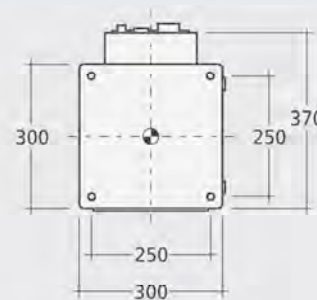
- Work Envelope:  
Radius 1300 mm
- Inner Limit:  
Radius 404 mm
- Recommended Wall Distance:  
189 mm



## Dimension Flange (mm)



## Dimension foot plate (mm)



### The Adept Viper s1300 system includes the following:

- Adept Viper s1300 Robot
- Adept SmartController CX (with software installed)
- PA-4 Amplifier Chassis with servo controller and amplifiers
- Front Panel with E-Stop
- 4 Meter Robot Cable (12 m optional)
- Adept Windows Software
- Network File Server (NFS) software
- Ethernet TCP/IP capability
- User Documentation

### The user must supply the following items:

- Power to SmartController and PA-4 Amplifier Chassis (see power requirements)
- Cell-based emergency stop wiring
- Windows-based PC (not required at run-time)



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