

Adept Viper s850



Specifications

Reach	855 mm
Payload	
Rated	2.5 kg
Max.	5 kg
Joint Ranges	
Joint 1	± 170°
Joint 2	-190°, +45°
Joint 3	-29°, +259°
Joint 4	± 190°
Joint 5	± 120°
Joint 6	± 360°
Inertia Moment (max.)	
Joint 4	0.295 kgm ²
Joint 5	0.295 kgm ²
Joint 6	0.045 kgm ²
Joint Speeds	
Joint 1	250°/sec
Joint 2	250°/sec
Joint 3	250°/sec
Joint 4	375°/sec
Joint 5	375°/sec
Joint 6	600°/sec
Repeatability (XYZ)	± 0.03 mm
Pass-Through Connections (routed from robot base to outer link)	
Electrical	10
Pneumatic	4 mm (x6)
Pneumatic	6 mm (x1)
Brakes	Joints 2 - 6
Mounting	floor, table, and ceiling
Weight	29 kg
Environmental Requirements	
Ambient Temperature	5 - 40 °C
Humidity Range	5 - 90 % (non-condensing)
Power Requirements SmartController	
	24 VDC : 5 A
Power Requirements for MotionBlox-60R	
	24 VDC : 6 A
	200-240 VAC : 10 A single phase
CE Compliant	

The Adept Viper™ s850 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 s850 6-axis robot is available in standard, Cleanroom, and IP-54/65 versions.

Product Features and Benefits

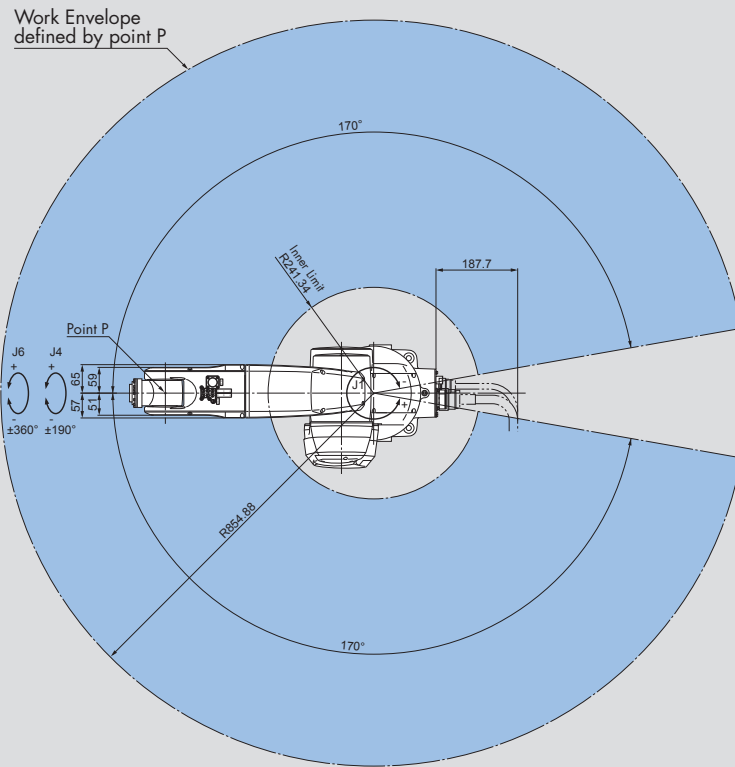
- Adept ACE™ software to deploy your applications through a user-friendly interface
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia Harmonic Drives™ and a lightweight arm to deliver maximum acceleration
- 4 kHz servo update rate to improve path following and control
- Diagnostics display to enable quick troubleshooting
- Ethernet TCP/IP capability to control the robot through a PC, PLC, or controller
- Complete interchangeability between robots and controllers



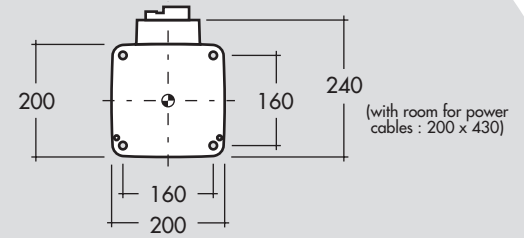
The Adept Viper s850 6-axis robot comes with the high-performance Adept SmartController™ motion controller, which is based on the Adept SmartServo architecture. It has a small footprint of 329w x 187d x 86h mm.

Adept Viper s850

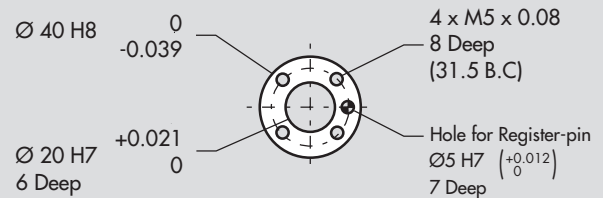
Dimensions: Adept Viper s850 (mm)



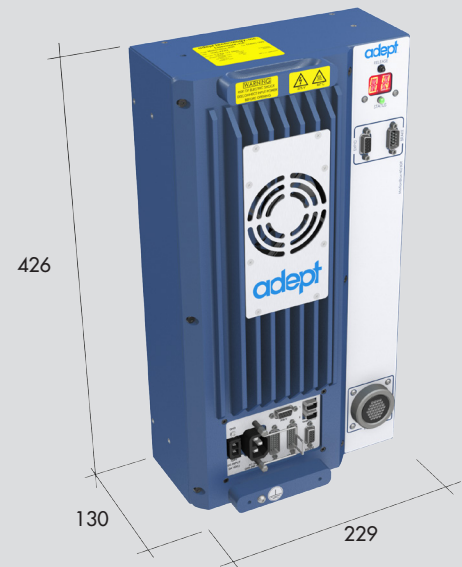
Dimensions: Footprint (mm)



Dimensions: Flange (mm)



Dimensions: MotionBlox-60R (mm)



The Adept Viper s850 system includes the following:

- Adept Viper s850 robot
- Adept SmartController motion controller
- MotionBlox-60R servo controller
- 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)
- Cleanroom ISO4 (class 10) option
- IP-54/65 version (IP-54 on the first three joints, IP-65 on the last 3 joints)
- Brake box

Downloads:

- Download CAD files for the Adept Viper s850 robot from <http://www.adept.com/support/downloads/file-search> using the following download ID: 500501



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