

Adept Viper s1700



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°

Inertia Moment (max.)

Joint 4	0.7 kgm²
Joint 5	0.7 kgm²
Joint 6	0.2 kgm²

Joint Speeds

Joint 1	170°/sec
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 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
IP-65 (option)

Mounting floor/ceiling

Weight 280 kg

Power Requirements SmartController
24 VDC : 5 A

Power Requirements for PA-4
200–240 or 380–415 VAC : 15 A
3-phase

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™ 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 x 187d x 86h mm.

