



**Almega Friendly series II**  
**Multipurpose Robot**  
**NEW FD-V25H**  
Multipurpose specification

**Fast, Slim,  
User-Friendly**  
Improved with all performances!



**Max. payload 25kg.  
Built-in application cable  
for various hand tools.**



## Improved with all performances!

### Fast

Industry leading level speed.  
Reduce cycle time

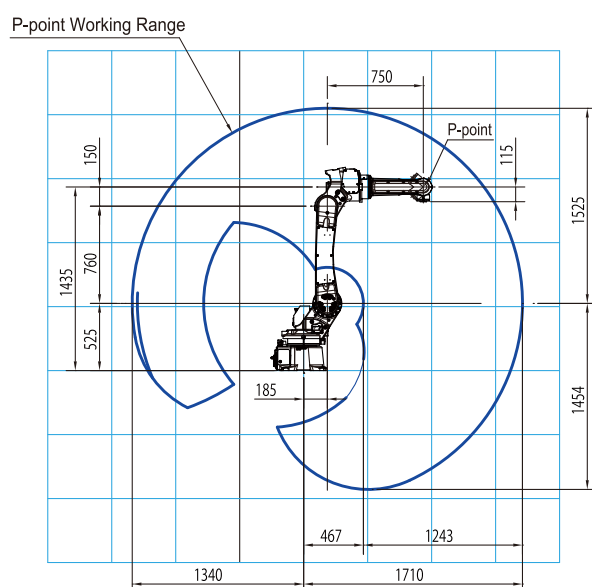
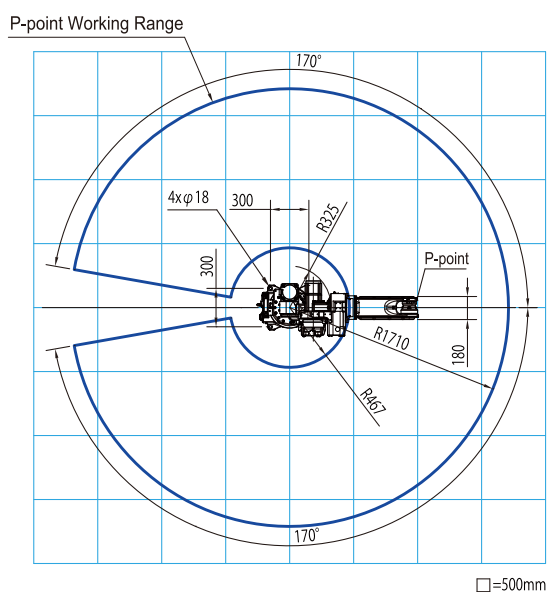
### Slim

30% reduce in foot print  
High-density layout

### User friendly

Built-in application cable for  
various hand tools.

#### [ Manipulator Working Range ]



#### [ Manipulator Specifications ]

		Specification
Name		FD-V25H
Structure		Vertically articulated type
Number of Axes		6
Wrist Capacity		25kg
Positional Repeatability (Note 1)		±0.04mm (Note 1)
Driving Method		AC servo motor
Driving Capacity		5400W
Positional Feedback		Absolute encoder
Working Range	Arm	J1 (Rotation) ±170°(±50°) (Note 2)
		J2 (Front/back) -155°~+100°(Note 3)
		J3 (Up/down) -170°~+260°
	Wrist	J4 (Swing) ±180°
		J5 (Bending) -50°~+230°
		J6 (Twist) ±360°
Maximum Speed	Arm	J1 (Rotation) 3.93 rad/s{225°/s} (3.05rad/s {175°/s})(Note 2)
		J2 (Front/back) 3.58 rad/s{205°/s}
		J3 (Up/down) 4.45 rad/s{255°/s}
	Wrist	J4 (Swing) 7.85 rad/s{450°/s}
		J5 (Bending) 7.68rad/s{440°/s}
		J6 (Twist) 10.60rad/s{605°/s}
Wrist Allowable Load	Allowable Moment	J4 (Swing) 52.6 N·m
		J5 (Bending) 52.6 N·m
		J6 (Twist) 24.5 N·m
	Allowable Moment of Inertia	J4 (Swing) 1.24 kg·m <sup>2</sup>
		J5 (Bending) 1.24 kg·m <sup>2</sup>
		J6 (Twist) 0.33kg·m <sup>2</sup>
Arm Cross-sectional Area		5.27m <sup>2</sup> × 340°
Environmental Conditions		Temp: 0~45°C, Hmd: 20~80%RH (No Condensation)
Mass (weight)		241 kg
Capacity of Upper Arm		10 kg (Wrist capacity: 25kg)(Note 4)
Installation Method		Floor-/Ceiling-/Wall-mounted
Paint Color		White (Munsell notation 10GY 9/1)

(Note 1) Positional repeatability of the tool center point (TCP) value complies with the JIS -B-8432 Standard.  
(Note 2) Specifications for wall mounting appear in parentheses.  
(Note 3) The working range of the J2 axis may be restricted when wall-mounted.  
(Note 4) The capacity of the upper arm varies with the wrist capacity.

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●The information contained in this catalog is current as of April 2021 and is subject to revision without notice.

**Daihen Robot Site**

[www.daihen-robot.com/en/](http://www.daihen-robot.com/en/)