

# VMB Series

RC9 ▶ P.36

## VMB-2515 / 2518

The robots are suitable for transporting large items and palletizing processes, helping automate tasks involving heavy items.



Maximum arm reach	1,506 / 1,804 mm
Maximum payload	25 kg

### Specifications

Item		Specifications	
Model		VMB-2515	VMB-2518
Axes		6	
Drive motor / brake		All-axis AC servo motor / all-axis with brakes	
Total arm length (No. 1 arm + No. 2 arm)		1,395 (710 + 685) mm	1,695 (860 + 835)mm
Maximum motion area (Point P)		1,506 mm	1,804 mm
Motion range	J1	±170° *1	
	J2	+140° , -100°	
	J3	+170° , -130°	
	J4	±200°	
	J5	±145°	
	J6	±360°	
Maximum payload		25 kg	
Maximum joint speed	J1	240 deg/sec	212 deg/sec
	J2	240 deg/sec	212 deg/sec
	J3	300 deg/sec	265 deg/sec
	J4	425 deg/sec	
	J5	425 deg/sec	
	J6	887 deg/sec	
Position repeatability *2		±0.05 mm	
Allowable wrist load moment	J4	52 Nm	
	J5	52 Nm	
	J6	52 Nm	
User air pipe(s)	2nd arm unit	2 systems (ø8 x 2)	
	3-axis unit	Options	
User signal line(s)	2nd arm unit	9 systems (ø6 x 8, ø8 x 1) *3 [The solenoid valves can be selected in a combination of systems 1, 2, 3] 1. Solenoid valve (2-position, double solenoid) 2. Solenoid valve (3-position, exhaust center solenoid) 3. Solenoid valve (3-position, closed center solenoid) Cleanroom type has 8 systems (ø6 x 8).	
	3-axis unit	Options	
	3-axis unit	Options	
Air source	Normal pressure	0.20 to 0.39 MPa	
	Maximum allowable pressure	0.49 MPa	
Protection grade		Standard type: IP40	Protected type: IP67 Cleanroom type: ISO class 5
Weight		Approx. 230 kg	Approx. 250 kg

\*1: The movable range is narrower if the unit is installed on a wall or tilted. \*2: Position repeatability is the precision at constant ambient temperature.

\*3: Controllable by use of the embedded solenoid valve only for ø6. \*4: Allowable current is limited.

### Legend

VMB -

Maximum payload: 25: 25 kg      Total arm length: 15: 1,506 mm      Options: W7: Protected type  
18: 1,804 mm      C5: Cleanroom type (ISO class 5)

## Selecting VMB robot options

When ordering a VMB robot, please select options 1 to 4 below.

### 1 Robot + Controller Set Select from the eight different set part numbers [Selection required]



Model	Part Name	Model	Part Name
VMB-2515/RC9M-M	Reach 1,500 mm	VMB-2518/RC9M-M	Reach 1,800 mm
VMB-2515/RC9M-P	Payload 25 kg	VMB-2518/RC9M-P	Payload 25 kg
VMB-2515W7/RC9M-M		VMB-2518W7/RC9M-M	
VMB-2515W7/RC9M-P		VMB-2518W7/RC9M-P	
VMB-2515C5/RC9M-M		VMB-2518C5/RC9M-M	
VMB-2515C5/RC9M-P		VMB-2518C5/RC9M-P	

### 2 Solenoid Valve If a solenoid valve option is required, select one type. If it is not required, there is no need to select an option.



①	②	③	④	①	②	③	④	Model	Model				
1	2PD	2PD	2PD	2PD	9	2PD	3PE	3PC	3PC	1	Solenoid valve OP 2PD × 4	9	Solenoid valve OP 2PD × 1 / 3PE × 1 / 3PC × 2
2	2PD	2PD	2PD	3PE	10	2PD	3PC	3PC	3PC	2	Solenoid valve OP 2PD × 3 / 3PE × 1	10	Solenoid valve OP 2PD × 1 / 3PC × 3
3	2PD	2PD	2PD	3PC	11	3PE	3PE	3PE	3PE	3	Solenoid valve OP 2PD × 3 / 3PC × 1	11	Solenoid valve OP 3PE × 4
4	2PD	2PD	3PE	3PE	12	3PE	3PE	3PE	3PC	4	Solenoid valve OP 2PD × 2 / 3PE × 2	12	Solenoid valve OP 3PE × 3 / 3PC
5	2PD	2PD	3PE	3PC	13	3PE	3PE	3PC	3PC	5	Solenoid valve OP 2PD × 2 / 3PE × 1 / 3PC × 1	13	Solenoid valve OP 3PE × 2 / 3PC × 2
6	2PD	2PD	3PC	3PC	14	3PE	3PC	3PC	3PC	6	Solenoid valve OP 2PD × 2 / 3PC × 2	14	Solenoid valve OP 3PE × 1 / 3PC × 3
7	2PD	3PE	3PE	3PE	15	3PC	3PC	3PC	3PC	7	Solenoid valve OP 2PD × 1 / 3PE × 3	15	Solenoid valve OP 3PC × 4
8	2PD	3PE	3PE	3PC						8	Solenoid valve OP 2PD × 1 / 3PE × 2 / 3PC × 1		

### 3 Internal Wiring / Piping Options Select from 48 types [Selection required]



- (1) Standard wiring/piping
  - (2) Standard wiring/piping + 2nd arm wiring/piping option
  - (3) Standard wiring/piping + J3 axis wiring/piping option
  - (4) Standard wiring/piping + 2nd arm wiring/piping option + J3 axis wiring/piping option
- \*In the case of standard wiring/piping ((1) above), a part number must also be selected.

Specification to be selected						Product name	Specification to be selected						Product name
Reach	Protected	Solenoid valve OP	2nd arm OP	3-axis OP			Reach	Protected	Solenoid valve OP	2nd arm OP	3-axis OP		
1	1500	IP40	—	—	—	Internal wiring/piping specifications: 1,500 mm / IP40	25	1800	IP40	—	—	—	Internal wiring/piping specifications: 1,800 mm / IP40
2			—	—	○	Internal wiring/piping specifications: 1,500 mm / IP40 / with 3-axis OP	26			—	—	○	Internal wiring/piping specifications: 1,800 mm / IP40 / with 3-axis OP
3			—	○	—	Internal wiring/piping specifications: 1,500 mm / IP40 / with 2nd arm OP	27			—	○	—	Internal wiring/piping specifications: 1,800 mm / IP40 / with 2nd arm OP
4			—	○	○	Internal wiring/piping specifications: 1,500 mm / IP40 / with 2nd arm OP, with 3-axis OP	28			—	○	○	Internal wiring/piping specifications: 1,800 mm / IP40 / with 2nd arm OP, with 3-axis OP
5			○	—	—	Internal wiring/piping specifications: 1,500 mm / IP40 / with solenoid valve	29			○	—	—	Internal wiring/piping specifications: 1,800 mm / IP40 / with solenoid valve
6			○	—	○	Internal wiring/piping specifications: 1,500 mm / IP40 / with 3-axis OP, with solenoid valve	30			○	—	○	Internal wiring/piping specifications: 1,800 mm / IP40 / with 3-axis OP, with solenoid valve
7			○	○	—	Internal wiring/piping specifications: 1,500 mm / IP40 / with 2nd arm OP, with solenoid valve	31			○	○	—	Internal wiring/piping specifications: 1,800 mm / IP40 / with 2nd arm OP, with solenoid valve
8			○	○	○	Internal wiring/piping specifications: 1,500 mm / IP40 / with 2nd arm OP, with 3-axis OP, with solenoid valve	32			○	○	○	Internal wiring/piping specifications: 1,800 mm / IP40 / with 2nd arm OP, with 3-axis OP, with solenoid valve
9		IP67	—	—	—	Internal wiring/piping specifications: 1,500 mm / IP67	33		IP67	—	—	—	Internal wiring/piping specifications: 1,800 mm / IP67
10			—	—	○	Internal wiring/piping specifications: 1,500 mm / IP67 / with 2nd arm OP	34			—	—	○	Internal wiring/piping specifications: 1,800 mm / IP67 / with 2nd arm OP
11			—	○	—	Internal wiring/piping specifications: 1,500 mm / IP67 / with 3-axis OP	35			—	○	—	Internal wiring/piping specifications: 1,800 mm / IP67 / with 3-axis OP
12			—	○	○	Internal wiring/piping specifications: 1,500 mm / IP67 / with 2nd arm OP, with 3-axis OP	36			—	○	○	Internal wiring/piping specifications: 1,800 mm / IP67 / with 2nd arm OP, with 3-axis OP
13			○	—	—	Internal wiring/piping specifications: 1,500 mm / IP67 / with solenoid valve	37			○	—	—	Internal wiring/piping specifications: 1,800 mm / IP67 / with solenoid valve
14			○	—	○	Internal wiring/piping specifications: 1,500 mm / IP67 / with 3-axis OP, with solenoid valve	38			○	—	○	Internal wiring/piping specifications: 1,800 mm / IP67 / with 3-axis OP, with solenoid valve
15			○	○	—	Internal wiring/piping specifications: 1,500 mm / IP67 / with 2nd arm OP, with solenoid valve	39			○	○	—	Internal wiring/piping specifications: 1,800 mm / IP67 / with 2nd arm OP, with solenoid valve
16			○	○	○	Internal wiring/piping specifications: 1,500 mm / IP67 / with 2nd arm OP, with 3-axis OP, with solenoid valve	40			○	○	○	Internal wiring/piping specifications: 1,800 mm / IP67 / with 2nd arm OP, with 3-axis OP, with solenoid valve
17		Clean ISO5	○	—	—	Internal wiring/piping specifications: 1,500 mm / ISO5 / with solenoid valve	41		Clean ISO5	○	—	—	Internal wiring/piping specifications: 1,800 mm / ISO5 / with solenoid valve
18			○	—	○	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 3-axis OP, with solenoid valve	42			○	—	○	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 3-axis OP, with solenoid valve
19			○	○	—	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 2nd arm OP, with solenoid valve	43			○	○	—	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 2nd arm OP, with solenoid valve
20			○	○	○	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 2nd arm OP, with 3-axis OP, with solenoid valve	44			○	○	○	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 2nd arm OP, with 3-axis OP, with solenoid valve
21			—	—	—	Internal wiring/piping specifications: 1,500 mm / ISO5	45			—	—	—	Internal wiring/piping specifications: 1,800 mm / ISO5
22			—	—	○	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 3-axis OP	46			—	—	○	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 3-axis OP
23			—	—	○	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 2nd arm OP	47			—	—	○	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 2nd arm OP
24			—	—	○	Internal wiring/piping specifications: 1,500 mm / ISO5 / with 2nd arm OP, with 3-axis OP	48			—	—	○	Internal wiring/piping specifications: 1,800 mm / ISO5 / with 2nd arm OP, with 3-axis OP

### 4 Power Cable Select from two types [Selection Required]



(1) Power cable 200 V  
(2) Power cable 400 V

Part Name
1 AC power cable (200 V, 10 m)
2 AC power cable (400 V, 10 m)

