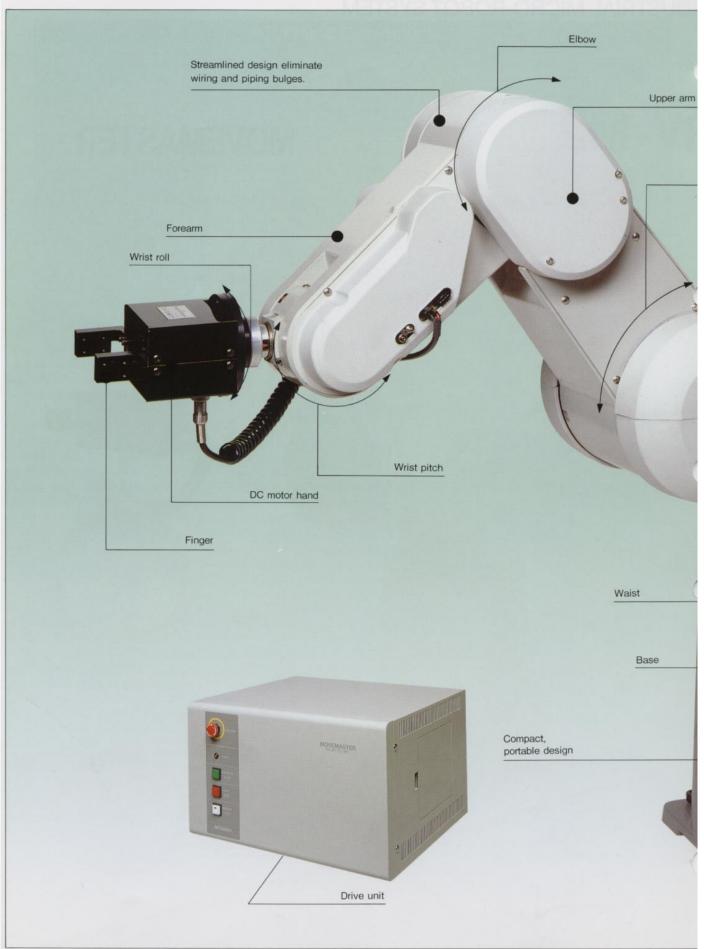


RV-M2

MOVEMASTER



Mitsubishi Industrial Micro-robot Im Movemaster Flexibility and Function



mentation System Ility in a Compact Package



Research, education, assembly, handling working busily in a wide range of fields. MOVEMASTER RV-MI, comes an enceenhanced features and capabilities.

Faster

With a maximum resultant speed of 1500 mm/sec., the MOVE-MASTER RV-M2 lowers your tact times. Furthemore, the use of digital servos cuts acceleration/deceleration time all the way down to 0.2 seconds.

Stronger

With a lifting capacity of 2.0 kg, the MOVE-MASTER RV-M2 is suitable for assembly and general handling work.

Wider

Due to a special shoulder-shift mechanism, the arm can stretch out a full 570 mm. The MOVE-MASTER RV-M2 can also reach in closer to itself; it's just the thing for 297 x 420 mm pallets.

More precise

With a position repeatability of \pm 0.1 mm, the MOVEMASTER RV-M2 is very precise for a vertical articulated robot.

robot

Furthemore, by improving the control method, we succeeded in reducing vibration and increasing path precision.

With all the advantages of the RV-M1

- Compact, space-saving body.
- Versatile vertical 5-axis design that can duplicate elaborate movements of the human arm.
- Simple and easy programming in BASIC.
- Proven design at an affordable price.

And even easier to operate

- The optional Teaching Box now has Emergency Stop, Reset, and Jog Speed Selection (High/ Low) buttons.
- An alarm detection function has been added for enhanced safety.

■Compar

Accleration deceleration 1.8 times quick

0.2se

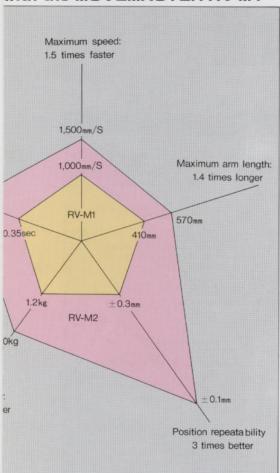
Weight 1.7 tin

■Persona

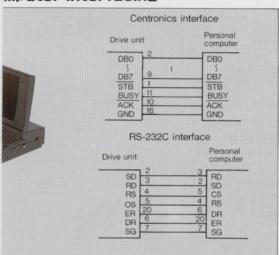


OVEMASTER series robots are v, after the extremely successful he MOVEMASTER RV-M2-with

with the MOVEMASTER RV-M1



mputer Interfacing



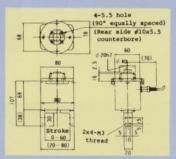
Options

▶The teaching box

The teaching box is used to teach positions to the robot and to display program-step numbers. It includes an emergency stop switch and a 3 m cable.



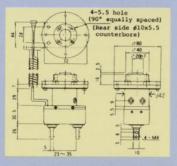




▲DC motor hand

The DC motor hand has a grip force control function (64 adjustment levels) for grasping hard and soft objects. Taking its power from the drive unit, the DC motor hand weights only 600 grams.





▲Pneumatic-hand

The pneumatic-hand set is made up of a solenoid valve and a pneumatic hand with a built-in open/close sensor. The solenoid valve attached to the robot body. (Maximum grip force: 3.2 kgf; mass; 400 g)



▲Personal computer cables

For MULTI16, PC9801, or MAXY series personal computers. Centronics cable: 1.5 m RS-232C cable : 3.0 m (Cables with no connectors are also available.)



AExternal I/O cable
External I/O cables are necessary
when conecting sequencer,
peripheral equipment (such as
switches and relays).



▲User EPROM
The unit accepts M5L27512K EPROMs or equivalent.

nole and/o ions,a

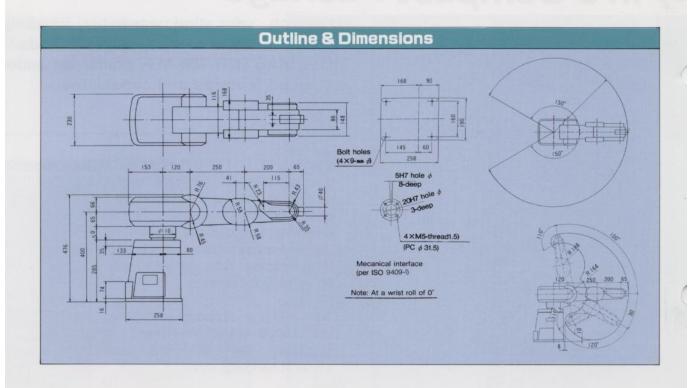
Movemaster-Making Robots More Accessible Than Eve

An entry level system that encourages creative application



		Specif	ications	
Robot S	Specifications		Drive Unit Specification	ons
Construction		Vertical, articulated	Teaching methods	Positions: Teaching or Manual Data Input Motions: Personal computer programming utilizing the MOVEMASTER comma- nd set(71 commands)
Degrees of freedom		Five (not including hand gripping)		
Drive system		DC servo motors	Control method	PTP, CP
Arm length		250 + 200 mm (120mm offset)	Control axes	Five (simultaneous)
Operation range (maxi- mum speed)	Waist	300° (140°/sec)	Funtions	Joint interpolation; linear interpolation; palletizing; interrupt contol; conditional branching; zero return; subroutine support; 21-level speed setting
	Shoulder	130° (79°/sec)		
	Elbow	120° (140°/sec)	Memory capacity	999 teach points 3584 program steps
	Wrist pitch	±110° (163°/sec)		
	Wrist roll	±180° (223°/sec)	Programming method	Personal computer
	Grip stroke	60mm (w/ optional DC motor hand)	Programming language	BASIC
Maximum path velocity		1500mm/sec (at mechanical interface)	External I/O	16 general purpose I/O; 2 inputs for hand control
Weight capacity		Max. 2.0kgf (including hand)		3 dedicated I/O (start, stop, reset, run, wait, error)
Position repeatability		±0.1mm (at mechanical interface)	Interfaces	Parallel (Centronics) X 1 Serial (RS-232C) X 1
Home position detection		Non-contact switches and encoders	Ambient temperature	5 to 40°C
Installation position		Horizontal	Power source	*1AC100/120/200/220/230/240V (±10%) 50Hz/60Hz, 0.5kVA
Ambient temperatufe		5 to 40°C		
Weight		Approx. 28kg	Size	380W × 331D × 246H (mm)
Motor capacity		axes J1 & J2:60W, axis J3:40W, axes J4 & J5:23W	Weight	25kg

^{*1} Depending on the source power voltage in your country.







These products or technologies are subject to Japanese and/or COCOM strategic restrictions, a diversion contrary thereto is prohibited.