

MOVEMASTER RV-M2 Micro Robot System

MOVEMASTER RV-M2 – *impressive features, convincing performance*

- **Flexible**
- **Powerful**
- **Cost-effective**

The MOVEMASTER RV-M2 is the "big brother" of the RV-M1, and it is the ideal choice for all applications which tax the limits of the smaller model as regards path velocity, lifting capacity, operating range etc.

Compared to the RV-M1, the MOVEMASTER RV-M2 has 70 per cent more lifting capacity (2 kg), its path velocity is a full 50 percent higher (1,500 mm/s PTP) and its reach is 40 percent greater (570 mm).

Despite its high path velocity, the MOVEMASTER RV-M2 has excellent position repeatability, combined with reliably constant speed. In addition to the many other potential tasks, this makes this robot ideal for the application of adhesives.

The MOVEMASTER RV-M2's instruction set also includes a powerful PALLETIZE command. Together with the robot's long reach, this command makes it possible to process pallets up to DIN A3 format size. This illustrates just how much more varied the potential of the MOVEMASTER RV-M2 is for handling and assembly applications.

Like the RV-M1, the MOVEMASTER RV-M2 is designed for full-time, 24-hour operation. Integrated diagnostics functions ensure maximum reliability.



Features

- 5 degrees of freedom, not including hand
- High path velocity:
Max. 1,500 mm/s (PTP)
- Excellent repeatability:
 ± 0.1 mm
- High lifting capacity: 2 kg
- Large program memory:
3,584 lines
- Large position memory:
999 fully programmable positions
- 16 digital inputs;
16 digital outputs
(3 inputs configurable for interrupts)
- Simple programming with 71 commands
- Positive-switching I/Os
- Hand gripping and opening force programmable
- Internally routed pneumatics lines
- Power supply
120 V AC, single phase, 50/60 Hz
- Integrated EPROM programmer
- Program development with personal computers connected via Centronics parallel or RS-232C serial port
- RAM and EPROM memory

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MOVEMASTER RV-M2 – a powerful system with many advantages

Like the RV-M1, the MOVEMASTER RV-M2 system consists of the robot, the teaching box and the drive unit. It can be programmed with any standard personal computer fitted with a serial and/or parallel interface. The PC is connected to the drive unit with either a 3 m RS-232C cable or a 1.5 m Centronics cable.

The computer is only required for writing programs, not for running them: once a robot control program has been written on the computer, it is transferred to the drive unit's RAM.

The MOVEMASTER RV-M2 is driven by high-quality DC servo motors.

Even though it is somewhat larger than the RV-M1, the MOVEMASTER RV-M2 is still an eminently compact, space-saving unit, which can easily be transported by a single person.



Teaching Box

The compact hand-held teaching box unit is used to program the positions of the MOVEMASTER RV-M2, and to check each individual position to which the robot is to be moved. Each position is stored under a unique position number, from 1 to 999. The teaching box can also be used to test the operation of the entire robot control program.

The teaching box is available as an optional extra.

Drive Unit

This compact, modular power supply and control unit is an integral part of the MOVEMASTER RV-M2 robot system. The drive unit contains a CPU and power electronics for controlling the robot, and is included with the system as standard equipment. Programs can be written on a PC and then transferred to the drive unit's RAM. The unit is fitted with two standard interfaces (Centronics and RS-232C) for PC connection.

An integrated EPROM programmer is also included as standard equipment.

Added Advantage

When the robot is fitted with appropriate sensors, its ability to process alarm/interrupt signals makes it possible to create collision prevention systems etc. The robot system uses single phase 120 V AC power.