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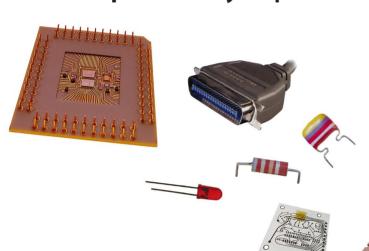
MOVEMASTER RP-1AH - Our Idea of Micro Handling:

Small - quick - precise!

Required footprint 200 x 160 mm only

Pick and place in <0.5 s</p>

Repeatabilility ±5 µm



High-Performance Precision and Compact Design

The RP-1AH is designed specifically for space limited work areas where components have to be placed precisely and quickly. Despite the RP-1AH's footprint of only 200 x160 mm it features a reachable range of 230 mm and a handling payload of up to 1 kg.

Its Qualities Speak for Themselves

The RP-1AH provides a unique mechanical system. It places components on a rectangular work envelope of 150 x 105 mm providing a repeatability of +/-0.005 mm and a cycle period of <0.5 s per pick and place. Simultaneously the Z-axis rotates at a max. speed of 3.000 °/s. These performance values allow a considerable increase in micro handling productivity and quality.

Flexibility and Multitasking Operating System

Due to its compact design, the RP-1AH can often be integrated directly into an existing manufacturing location. Additionally, the RP-1AH's multitasking operating system supports parallel processing. Thus it can perform further functions besides movement and communication with peripheral devices, e.g. transferring signals. The heart of the RP-1AH is the new CR2-532 controller including a 64-bit RISC processor. In case of production changes this new controller, which can be programmed easily by means of the standard software MELFA BASIC IV, perfectly meets the industrial requirements

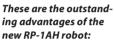
Not only it the RP-1AH's dimensions, precision, and performance are impressive, but also its cost effectiveness is excellent.



concerning flexibility. The RP-1AH can store several programs which can be changed by an easy program switch.



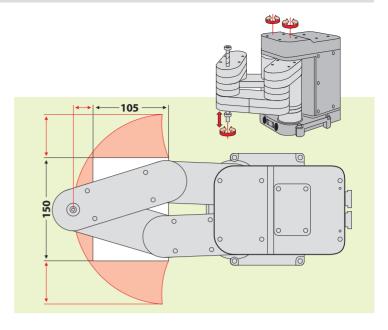




- Repeatability ±0.005 mm
- Cycle period per pick and place < 0.5 s
- Required footprint approx. 200 x 160 mm
- Work envelope approx. 150 x 105 mm
- Extended pick up zones for material feeding
- Multitasking operating system supports parallel processing

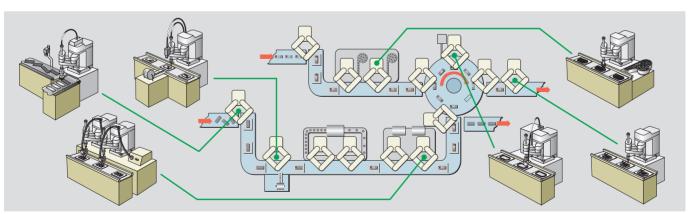
The Ideal Micro Handling System

Due to its small dimensions and high precision, the strength of the RP1-AH is in the area of micro handling. For example, the RP1-AH is a popular choice for installing minuscule components in the clock industry or placing and soldering components on circuit boards (SMD technology). The RP1-AH with its multitasking operating system can replace old production lines consisting of inflexible machines and thereby increase production efficiency.



MOVEMASTER RP-1AH

Robot type	Double-arm SCARA
Number of axes	4
Repeatability	±0.005 mm
Hard rotation speed J4	3000 °/s
Drives	AC servo motors incl. brakes
Cycle period	<0.5 s (25 mm/100 mm/25 mm)
Handling payload	0.5 kg/max. 1 kg
Digital I/Os	32/32 (max. 256/256)
Control modes	Axial, linear, or cicular interpolation, multitasking (32 tasks max.), compli- ance control, palletting functions, interrupt and subroutine control
Programming language	MELFA BASIC IV
Number of positioning points	2500 (expandable)
Number of program lines	5000 (expandable)
Number of programs	88
Controller dimensions (W x H x D)	420 mm x 200 mm x 510 mm
Power consumption	0.8 kVA



EUROPEAN HEADQUARTERS

MITSUBISHI ELECTRIC EUROPE B.V. German Branch Gothaer Straße 8 **D-40880 Ratingen** Phone (0 21 02) 4 86-0 Fax (0 21 02) 4 86-112

EUROPEAN REPRESENTATIVES

GEVA AUSTRIA Wiener Straße 89 A-2500 Baden Phone +43 (0) 2252 / 85 55 20

GETRONICS NV/SA **BELGIUN**Pontbeeklaan 43 **B-1731 Zellik**Phone +32 (0) 2 / 467 17 51

AutoCont Control Syst. s.r.o. **CZECHIA** Nemocnicni 12 **CZ-70100 Ostrava 1** Phone +420 (0) 69 / 615 21 11 louis poulsen Geminivej 32 **DK-2670 Greve** Phone +45 (0) 43 / 95 95 95

Beijer Electronics OY FINLAND Elannontie 5 FIN-01510 Vantaa Phone +358 (0) 9 / 615 20 11

IP Systémes FRANCI 8, Rue Colonel Chambonnet F-69672 Lyon Bron Phone +33 (0) 4 / 72 14 18 00

SANDSOFT HUNGA 5 Röppentyü Köz H-1139 Budapest Phone +36 (0)1/375 38 98 MITSUBISHI ELECTRIC IRELAND
Westgate Business Park, Ballymount
IRL-Dublin 22
Phone +353 (0) 1 / 450 50 07

ILAN & DAVISH Automation Qiryat-Arie 49513 IL-Petach-Tikva 49001 Phone +972 (0) 3 / 922 18 24

CARPANETO & C. S. p. A. Via Ferrero 10

I-10090 Cascine Vica-Rivoli (TO)
Phone +39 011 / 959 01 11

Getronics by NETHERLANDS
Donauweg 10
NL-1043 AJ-Amsterdam
Phone +31 (0) 20 / 586 15 92

Beijer Electronics AS NORWA Teglverksveien 1 N-3002 Drammen Phone +47 (0) 32 / 24 30 00

MPL Technology Sp. Z.o.o. POLAND ul. Wroc¢awska 53
PL-30011 Kraków
Phone +48 (0) 12 / 632 28 85

F. Fonseca Lda. PORTUGAL Estrada de Taboeira 87/89, Esgueira P-3800 Aveiro Phone +351 (0) 34/31 58 00

INEA d.o.o. **SLOVENIA**Ljubljanska 80 **SI-1230 Dom**¥**ale**Phone +386 (0) 61 / 71 80 00

Medición y Control, S. A. SPAIN Gran Via de les Corts Catalanes 133, 4 E-08014 Barcelona Phone +34 (9) 3 / 422 77 00

Beijer Electronics AB SWEDEN Box 325 S-20123 Malmö Phone +46 (0) 40 / 35 86 00

ECONOTEC AG SWITZERLAND
Postfach 282
CH-8309 Nürensdorf
Phone +41 (0) 1 / 838 48 11

MITSUBISHI ELECTRIC UK
Travellers Lane
GB-Hatfield Herts, AL10 8 XB
Phone +44 (0) 1707 / 27 61 00

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