



MATERIAL FACT SHEET

314068 RV-20FRM-R

General Data

| | |
|---------------------|--|
| Product Hierarchy | IAG25502 |
| | ROBOT |
| | RV-20FR-R |
| Ext. Material Group | 10 STANDARD ITEM |
| ABC Indicator | C (Non-Stock Material / Make-to-Order) |

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000314068

Product Components

| | |
|--------------------------------------|---------------|
| 312663 / RV-20FRM-D | 1 pc required |
| 313101 / 4F-R16RTCPU | 1 pc required |

FA-Robot: Robotssystem

| | |
|----------------------------|----------------------|
| Series | RV-FR SERIES |
| Type | VERTICAL |
| Payload (kg) | 20 |
| Max. Reach Radius (mm) | 1094 |
| Environment specification | OIL MIST |
| Controller Type | CR800-R |
| Cycle Time (s) | 0,7 |
| Speed (mm/s) | 4200 |
| Repeatability (mm) | 0,05 |
| Installation Method | FLOOR, CEILING, WALL |
| Protection Class | IP67 |
| Power Supply 1 Phase (VAC) | 230 |
| Power Supply 3 Phase (VAC) | 200-230 |
| Power Consumption (VA) | 3000 |
| Operating Range J1 (deg) | 380 |
| Operating Range J2 (deg) | 240 |
| Operating Range J3 (deg) | 167,5 |
| Operating Range J4 (deg) | 400 |
| Operating Range J5 (deg) | 240 |
| Operating Range J6 (deg) | 720 |

Product Dimensions & Weight

| | |
|-------------|--------|
| Width (mm) | 347 |
| Height (mm) | 1003,8 |
| Depth (mm) | 1088 |
| Weight (kg) | 120 |

Logistic Dimensions & Gross Weight

| | |
|-------------------|-----------|
| Length (cm) | 162,0 |
| Width (cm) | 80,0 |
| Height (cm) | 128,0 |
| Gross Weight (kg) | 226,000 |
| Volume (cdm) | 1.658,880 |

Stock Data

| | |
|------------------------------|----|
| Planned Delivery Time (Days) | 60 |
|------------------------------|----|

Life Cycle

| | |
|-------------|----------------|
| Sales Start | 01.07.2017 |
| Predecessor | No Predecessor |

Additional Product Information

| | |
|----------------------------|-----------------------------|
| Binding Tariff Information | DEBT1-10891/21-1 |
| BTI validity date | 27.06.2024 |
| Battery included | YES - CHECK SPARE PART LIST |

Export Data

| | |
|--|------------|
| Commodity Code | 84795000 |
| Legal Control (Dual Use List) | Not Listed |
| Country of Origin | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU |

Environmental

| | |
|----------------------------|--------|
| REACH Limit Exceeded | NO |
| Dangerous Goods Class | 9 |
| Dangerous Goods Identifier | UN3091 |
| WEEE | B2B |

Conformity

| | |
|------|---------------|
| CE | COMPLIANT |
| EAC | NON-COMPLIANT |
| UKCA | COMPLIANT |

Documentation & Media Data

| | |
|----------------------------|---|
| Manual URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=RV-20FRM-R&doc-lang=en |
| Certificates URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=RV-20FRM-R&doc-lang=en |
| CAD URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=RV-20FRM-R&doc-lang=en |

Product Packaging

| | |
|-------------------|-------|
| Cardboard (g) | 27926 |
| Other paper (g) | 120 |
| Aluminum (g) | 0 |
| Steel (g) | 70 |
| Styrofoam (g) | 0 |
| Other plastic (g) | 1302 |
| Wood (g) | 36900 |
| Glass (g) | 0 |
| Others (g) | 500 |

Spare parts

| Material | Description | Quantity | Unit |
|------------------------|---|----------|------|
| 589480 | RV-7FRLL/13FR/FRL/20FR MOTOR J3 | 1 | PC |
| 502664 | RV-4F/7F MOTOR HG-KR43BK-S920052(400W) | 1 | PC |
| 598367 | RV-4F/7F MOTOR HG-KR13D-S920061 | 1 | PC |
| 278292 | RV-20FR DECEL. J1/J2 (7FRLL/13FRL) J2 | 2 | PC |
| 278294 | RV-7FRLL/13FR/20FR DECELERATOR J3 | 1 | PC |
| 278296 | RV-20FR HARMONIC DRIVE J4 | 1 | PC |
| 278298 | RV-20FR HARMONIC DRIVE J5 | 1 | PC |
| 278299 | RV-13FR(L)/20FR HARMONIC DRIVE J6 | 1 | PC |
| 278302 | RV-13FR(L)/20FR CROSS ROLLER BEARING J5 | 1 | PC |
| 278303 | RV-13FR(L)/20FR CROSS ROLLER BEARING J6 | 1 | PC |
| 278305 | RV-13FR(L)/20FR GEAR R | 1 | PC |
| 278306 | RV-13FR(L)/20FR GEAR L | 1 | PC |
| 278307 | RV-7FRLL/13FR(L)/20FR BUSH 02 | 1 | PC |
| 278308 | RV-7FRLL/13FR(L)/20FR BUSH 03 | 1 | PC |
| 265210 | RH-3CH/6CH/6CRH BALL BEARING 6805DDU | 1 | PC |
| 278309 | RV-7FRLL/13FR(L)/20FR BALL BEARING 6808 | 1 | PC |
| 164946 | RH-13/20/7FL(L) BALL BEARING 6809DD | 1 | PC |
| 278311 | RV-13FR(L)/20FR BALL BEARING EA7L | 1 | PC |
| 278312 | RV-13FR(L)/20FR BALL BEARING F698DD | 1 | PC |
| 265209 | RV-5AS-D BALL BEARING F608ZZ | 1 | PC |
| 237507 | RH-13F/20F/7FL BALL BEARING 6905DDU | 1 | PC |
| 164945 | RV-3SB/3SJB BALL BEARING 687MC3 | 1 | PC |
| 265209 | RV-5AS-D BALL BEARING F608ZZ | 1 | PC |
| 278315 | RV-7FRLL/13FR(L)/20FR TIMING PULLEY J4A | 2 | PC |
| 278316 | RV-7FRLL/13FR(L)/20FR TIMING PULLEY J4B | 1 | PC |
| 265219 | RV-4/7FR(L)/M TIMING PULLEY J4AJ5A | 1 | PC |
| 278318 | RV-13FR(L)/20FR TIMING PULLEY J5 | 1 | PC |

| Material | Description | Quantity | Unit |
|----------|--|----------|------|
| 265222 | RV-7/13/20 FRL(L)/M TIMING PULLEY J5B | 1 | PC |
| 415613 | RV-13/20FR/7FRL TIMING BELT J4 | 1 | PC |
| 415614 | RV-13/20FR TIMING BELT J5 | 1 | PC |
| 415615 | RV-13/20FR TIMING BELT J6 | 1 | PC |
| 278325 | RV-7FRL/13FR(L)/20FR OILSEAL 230 M-TYPE | 1 | PC |
| 278326 | RV-7FRL/13FR(L)/20FR OILSEAL 8(FKM) | 4 | PC |
| 278327 | RV-7FRL/13FR(L)/20FR OILSEAL 15(FKM) | 2 | PC |
| 265239 | RV-7/13/20FRL(L)/M OILSEAL TC175X190 | 2 | PC |
| 278328 | RV-7FRL/13FR(L)/20FR OILSEAL AD25 | 1 | PC |
| 278329 | RV-7FRL/13FR(L)/20FR OILSEAL AD36 | 1 | PC |
| 265241 | RV-4/7/13/20FRL/M OILSEAL M-110 | 1 | PC |
| 265242 | RV-4/13/20FRL/M OILSEAL M-84 | 1 | PC |
| 278330 | RV-13FR(L)/20FR OILSEAL AD12 | 1 | PC |
| 265234 | RV-4/7/13/20FRL(L) OILSEAL AD 10 20 5 | 1 | PC |
| 278331 | RV-13FR(L)/20FR OILSEAL AD30 M-TYPE | 1 | PC |
| 265245 | RV-4/7FR(L)/M O RING CO0522A | 1 | PC |
| 278333 | RV-7FRL/13FR(L)/20FR O RING 55 M&C TYPE | 1 | PC |
| 278334 | RV-13FR(L)/20FR O-RING CO02A | 1 | PC |
| 278405 | RV-7FRL/13FR(L)/20FR FELT J4A | 1 | PC |
| 278406 | RV-7FRL/13FR(L)/20FR FELT J4B | 1 | PC |
| 415320 | RV-FR INTERNAL PCB DQ392 | 1 | PC |
| 415321 | RV-FR INTERNAL PCB DQ006 | 1 | PC |
| 415452 | RV-FR BATTERY HOLDER | 4 | PC |
| 278335 | RV-7FRL/13FR(L)/20FR CARD SPACER | 2 | PC |
| 262558 | RH-12/20FRH CONNECTOR IL-2S-S3L(N) | 1 | PC |
| 237583 | RH-12/20FRH GREASE NIPPLE WA610 NYLON | 4 | PC |
| 278336 | RV-7FRL/13FR(L)/20FR GREASE NIPPLE 1 | 3 | PC |
| 249985 | RH-13F/20F/7FLL TAPER SCREW SUS ANA R1/8 | 7 | PC |
| 262557 | RH-13F/20F/7FLL PIN H7-6x12 | 7 | PC |
| 164975 | RH-12/20FRH PARALLEL PIN H74x8 | 3 | PC |
| 164974 | RV-13/20FR/7FRL KEY | 2 | PC |
| 237579 | RH-6CRHK KEY IPPAN W-MARU 3X3X6 | 1 | PC |
| 278337 | RV-7FRL/13FR(L)/20FR KEY 4X4 | 1 | PC |
| 237540 | RV-5AS-D SEAL WASHER(M6) | 5 | PC |
| 265268 | RV-4/7/13/20FRL/M SEAL WASHER 4X7.2 | 9 | PC |
| 249980 | RH-13F/20F/7FLL AIR JOINT UKB6 | 2 | PC |
| 265259 | RV-4/7/13/20FRL/M UNION AIR JOINT UKB8 | 1 | PC |
| 278338 | RV-7FRL/13FR(L)/20FR PLUG UP6 | 4 | PC |
| 243688 | RH-12/20FRH PLUG UP8 | 1 | PC |
| 265260 | RV-4/7/13/20FRL(L)/M CABLE CLAMP -WS10M | 2 | PC |
| 237585 | RV-8CRL LOW HEAD CAP SCREW SSH-EL-M6 | 5 | PC |
| 249976 | RH-13F/20F/7FLL SNAP RING ANA-C37 | 1 | PC |
| 164987 | RH-13F/20F/7FLL RUBBER SHEET 300x30 | 2 | PC |
| 278340 | RV-7FRL/13FR(L)/20FR RUBBER SHEET 6 | 5 | PC |
| 278341 | RV-7FRL/13FR(L)/20FR RUBBER SHEET 7 | 1 | PC |
| 278342 | RV-13FR(L)/20FR RUBBER SHEET 8 | 1 | PC |
| 278343 | RV-7FRL/13FR(L)/20FR RUBBER SHEET 9 | 1 | PC |
| 237596 | RH-13F/20F/7FLL RUBBER SHEET | 1 | PC |
| 164971 | RH-13/20/7FL(L) SILICONE TUBE | 1 | PC |
| 317013 | RH-3/6CH/CRH CABLE CLAMP AL6 | 1 | PC |
| 164984 | RH-13F/20F/7FLL CABLE CLAMP AL4 | 2 | PC |
| 278344 | RV-13FR(L)/20FR SHIM J6 T0.1 | 2 | PC |
| 278345 | RV-13FR(L)/20FR SHIM J6 T0.3 | 1 | PC |
| 278346 | RV-13FR(L)/20FR SHIM J6 T0.5 | 1 | PC |
| 410994 | 1F-05UCBL-41 | 1 | PC |
| 415616 | RV-13/20FR INTERNAL HARNESS | 1 | PC |
| 415319 | RV-2FR/L/B INTERNAL HARNESS 1 | 1 | PC |
| 278350 | RV-7FRL/13FR(L)/20FR CONBOX WIRING ASSY | 1 | PC |
| 278351 | RV-13FR(L)/20FR BRAKE CABLE ASSY J6 | 1 | PC |
| 278355 | RV-13FR(L)/20FR HEAT CONDUCTION SEAT J6 | 1 | PC |
| 278356 | RV-13FR(L)/20FR HEAT CONDUCTION J6B | 2 | PC |
| 278358 | RV-7FRL/13FR(L)/20FR STOPPER B | 2 | PC |
| 265241 | RV-4/7/13/20FRL/M OILSEAL M-110 | 1 | PC |
| 278414 | RV-7FRL/13FR(L)/20FR FELT J4D | 1 | PC |
| 278415 | RV-7FRL/13FR(L)/20FR FELT J4E | 2 | PC |
| 278359 | RV-8CRL STOPPER A | 4 | PC |
| 278362 | RV-7FRL/13FR(L)/20FR COVER SHOULDER STD | 1 | PC |
| 278364 | RV-7FRL/13FR(L)/20FR CVR SHOULDER R STD | 1 | PC |
| 278366 | RV-7FRL/13FR(L)/20FR COVER ARM NO1 STD | 1 | PC |
| 278368 | RV-7FRL/13FR(L)/20FR COVER ELBOW U STD | 1 | PC |

| Material | Description | Quantity | Unit |
|------------------------|--|----------|------|
| 278370 | RV-13FR(L)/20FR COVER ARM NO2 | 2 | PC |
| 265282 | RV-4/7/13/20FRL(L)/M COVER CONBOX | 1 | PC |
| 265309 | RV-4/7FRL/M COVER CONBOX R2 | 1 | PC |
| 278377 | RV-13FR(L)/20FR COVER CONBOX R C&M-TYPE | 1 | PC |
| 278383 | RV-13FR(L)/20FR COVER CONBOX R C&M-TYPE | 1 | PC |
| 278384 | RV-13FR(L)/20FR COVER WRIST | 1 | PC |
| 278391 | RV-13FR(L)/20FR PACKING C&M-TYPE | 1 | PC |
| 278392 | RV-13FR(L)/20FR FIXED BRACKET | 1 | PC |
| 278394 | RV-7FRL/13FR(L)/20FR TRANSPORT TOOL L | 1 | PC |
| 278395 | RV-7FRL/13FR(L)/20FR TRANSPORT TOOL R | 1 | PC |
| 237636 | RV-5AS-D DIRECTION MARK | 1 | PC |
| 237602 | RH-3CH/6CH/6CRH ALIGNMENT MARK (MINI) | 12 | PC |
| 237606 | RH-12/20FRH EARTH NAMEPLATE | 1 | PC |
| 237607 | RH-12/20FRH CHARGING PART CAUTIONS NAMEP | 1 | PC |
| 237604 | RH-12/20FRH COORDINATES DIRECTION MARK a | 1 | PC |
| 278414 | RV-7FRL/13FR(L)/20FR FELT J4D | 1 | PC |
| 237605 | RH-12/20FRH COORDINATES DIRECTION MARK b | 1 | PC |
| 265338 | RV-4/7FRL/M AIR PURGE MARK | 1 | PC |
| 134302 | GLUE 242 LOCTITE 250ml | 1 | PC |
| 278415 | RV-7FRL/13FR(L)/20FR FELT J4E | 2 | PC |
| 278402 | RV-13FR(L)/20FR ORIGIN JIG J6B | 1 | PC |
| 134305 | LIQUID GASKET WHITE THREE BOND 1212 | 1 | PC |
| 278396 | RV-7FRL/13FR(L)/20FR CABLE CLAMP AL3 | 2 | PC |
| 262557 | RH-13F/20F/7FLL PIN H7-6x12 | 1 | PC |
| 278398 | RV-13FR(L)/20FR HEAT CONDUCTION SEAT | 1 | PC |
| 278401 | RV-13FR(L)/20FR ORIGIN JIG J6A | 1 | PC |
| 278403 | RV-5AS SAFETY SOCKET M4 | 2 | PC |
| 405789 | CR800 PCB SYSTEM IO DQ331B | 1 | PC |
| 278399 | RV-5AS EJECTOR PIN | 1 | PC |
| 278400 | RV-13FR(L)/20FR ORIGIN JIG SET J6 | 1 | PC |
| 278404 | RV-8CRL SAFETY SOCKET M6 | 4 | PC |
| 602876 | CR800 PCB CPU DQ171D | 1 | PC |
| 405790 | CR800 PCB OPTIONAL SLOT DQ332A | 1 | PC |
| 405788 | CR800 PCB SERVO CPU DQ865B | 1 | PC |
| 405791 | CR800 PCB CONVERTER DQ801A | 1 | PC |
| 405795 | CR800 PCB INV. DQ881A 7FRL/13FR/20FR | 1 | PC |
| 405802 | CR800 POWER SUPPLY 1FRHR/7FRL/13FR/20FR | 1 | PC |
| 405801 | CR800 POWER SUPPLY UNTIL RV-7FR/RH20FR | 1 | PC |
| 405804 | CR800 NOISE FILTER FOR RV-7FR/13FR/20FR | 1 | PC |
| 405805 | CR800 FUSE 500SF-20UL | 3 | PC |
| 405806 | CR800 FUSE HOLDER | 3 | PC |
| 220184 | CR2D CR2Q OPTION COVER | 2 | PC |
| 405807 | CR800 OPTION CASE | 1 | PC |
| 220273 | CR800 TB CONNECTOR | 1 | PC |
| 262774 | NARC 750 FILTER DUST | 1 | PC |
| 262774 | NARC 750 FILTER DUST | 1 | PC |
| 405810 | CR800 CABLE BKOF A1078H03 | 1 | PC |
| 405808 | CR800 CABLE BKOF A1078H01 | 1 | PC |
| 405809 | CR800 CABLE BKOF A1078H02 | 1 | PC |
| 405811 | CR800 CABLE BKOF A1078H04 | 3 | PC |
| 262786 | NARC 750/751 LOCK EDGING SADDLE | 1 | PC |
| 220314 | CR2D CR2Q CABLE GUIDE WS-1NS | 8 | PC |
| 220243 | CR800 RUBBER MOUNT KG-010 | 7 | PC |
| 220304 | CR800 SPACER MPS-08-0 | 1 | PC |
| 237852 | CR800 SEAL ATT. (ELECTRIFIC.) 114-406 | 1 | PC |
| 405812 | CR800 CONNECTOR U794D030G51 | 1 | PC |
| 405813 | CR800 CONNECTOR U794D030G52 | 1 | PC |
| 64687 | FUSE 1,6A | 1 | PC |
| 405814 | CR800 ACIN CABLE BKOF A1006H53 | 1 | PC |
| 405815 | CR800 ACIN CABLE BKOF A1006H03 | 1 | PC |
| 405816 | CR800 CPU UNIT | 1 | PC |
| 238020 | CR800 SSCNET3 CABLE 10M-S 114-322 | 1 | PC |
| 405817 | CR800 FAN 1 | 1 | PC |
| 405818 | CR800 FAN 2 | 1 | PC |
| 248692 | MR-BAT6V1 | 4 | PC |
| 604699 | RV-7FRL/13FR/FRL/20FR MOTOR J1 | 2 | PC |
| 589542 | RH-6FRH MOTOR J3 (200W) | 1 | PC |
| 222205 | ROBOT SILICONE GREASE G501 80g | 1 | PC |

Compatible products

| Material | Description / Price List Text / Classification |
|------------------------|--|
| 214968 | R32TB Robot Teaching Box R32TB; Narc controller (standard version) Class 100100602: FA-Robot: Teachingbox |
| 225756 | R32TB-15 Teaching box R32TB with 7 lines display and 15m cable length Class 100100602: FA-Robot: Teachingbox |
| 255285 | 1F-GR35S-02 RV-4F/RV-7F Hand output cable Class 100100605: FA-Robot: Cable |
| 255286 | 1F-HC35S-02 RV-4F/RV-7F Hand input cable Class 100100605: FA-Robot: Cable |
| 257935 | 1F-HA01S-01 RV-F External wiring set 1 for the robot base Class 100100605: FA-Robot: Cable |
| 257936 | 1F-HB01S-01 RV-F External wiring set 1 for the forearm Class 100100605: FA-Robot: Cable |
| 268039 | RV-F / RV-FR Connector Set RV-4/7/13/20F(R) Connector Set Class 100100607: FA-Robot: Other Option |
| 268829 | 1F-VD01E-03 Valve set incl. valve block and noise reducer 1F-VD01E-0 f. Rob.type:RV13F/RV20F Class 100100603: FA-Robot: Valve |
| 268830 | 1F-VD02E-03 RV-13F/RV-20F Pneumatic double valve set incl. noise-inferior Class 100100603: FA-Robot: Valve |
| 268831 | 1F-VD03E-03 RV-13F/RV-20F Pneumatic triple valve set incl. noise-inferior Class 100100603: FA-Robot: Valve |
| 268832 | 1F-VD04E-03 RV-13F/RV-20F Pneumatic quadruple valve set incl. noise-inferior Class 100100603: FA-Robot: Valve |
| 271212 | 2F-YZ581 Encoder Distribution Unit 2F-YZ581 for robot controller Class 100100604: FA-Robot: Interface Card |
| 271513 | 1F-HA02S-01 RV-F External wiring set 2 for the robot base Class 100100605: FA-Robot: Cable |
| 271514 | 1F-HB02S-01 RV-F External wiring set 2 for the forearm Class 100100605: FA-Robot: Cable |
| 273788 | 1F-DH-05J1 RV-13/20F J1 Stopper Class 100100607: FA-Robot: Other Option |
| 313061 | 4F-SF002-01 Safety option unit MELFA SafePlus for CR800 Controller Class 100100604: FA-Robot: Interface Card |
| 313062 | CR800-MB Protection Box IP54 for CR800 Controller CR800-MB Class 100100607: FA-Robot: Other Option |
| 313064 | 4F-FS002H-W200 Force Sensor Set 200N incl. Interface unit (2F-DQ561) for FR Series 4F-FS002H-W2 Class 100100607: FA-Robot: Other Option |
| 313105 | 4F-FS002H-W1000 Force Sensor Set 1000N incl. Interface unit (2F-DQ561) for FR Series 4F-FS002H-W Class 100100607: FA-Robot: Other Option |
| 313106 | 1F-10UCBL-41 Machine cable for CR800 controller, standard, 10m Class 100100605: FA-Robot: Cable |
| 313107 | 1F-15UCBL-41 Machine cable for CR800 controller, standard, 15m Class 100100605: FA-Robot: Cable |
| 313108 | 1F-10LUCBL-41 Machine cable for CR800 controller, high flexible, 10m Class 100100605: FA-Robot: Cable |
| 313109 | 1F-15LUCBL-41 Machine cable for CR800 controller, high flexible, 15m Class 100100605: FA-Robot: Cable |

| Material | Description / Price List Text / Classification |
|------------------------|---|
| 324579 | RT ToolBox3 Standard 1L-USB Robot Programming/Simulation Software, Win10/11, 1 Licence USB Class 100101206: FA-Software: Software Robot |
| 324580 | RT ToolBox3 Pro 1L-USB Robot Programming/Simulation Software, MELFA-Works, Win10/11, 1 Licence USB Class 100101206: FA-Software: Software Robot |
| 325728 | MELFA Smart Plus Card Pack A-Typ2F-DQ510 MELFA Smart Plus Card Pack A-Type Class 100100604: FA-Robot: Interface Card |
| 325729 | 2F-DQ511 MELFA Smart Plus Card A-Type Class 100100604: FA-Robot: Interface Card |
| 325730 | 1F-02UCBL-41 Machine cable for CR800 controller, standard, 2m Class 100100605: FA-Robot: Cable |
| 327863 | 1F-20UCBL-41 Machine cable for CR800 controller, standard, 20m Class 100100605: FA-Robot: Cable |
| 327864 | 1F-20LUCBL-41 Machine cable for CR800 controller, high flexible, 20m Class 100100605: FA-Robot: Cable |
| 603944 | 4F-SF003-05 Safety option unit MELFA SafePlus II Slim for CR800 Controller Class 100100604: FA-Robot: Interface Card |
| 687249 | R86TB Robot Teaching Box with 10,1" (Colour / Touch version) Class 100100602: FA-Robot: Teachingbox |
| 736446 | RT ToolBox3 Pro Robot Programming/Simulation Software, MELFA-Works, Win10/11, 1 Licence Email Class 100101206: FA-Software: Software Robot |
| 736447 | RT ToolBox3 Standard Robot Programming/Simulation Software, Win10/11, 1 Licence Email Class 100101206: FA-Software: Software Robot |