

Main Unit - 52200



These Mechatronics systems are fully functional models of actual applications, mimicking hybrid, real life, industrial automation scenarios. Various Automation and Handling Task modules such as feeding, conveying, pick & place, transporting, forming and storage modules are available. Wide range of Modular Manufacturing Systems like, Dispensing Station, Inspection Station, Buffer Station, Processing Station, Sorting Station are suitable for modular assembly are available. A wide variety of project assignments and learning objectives help students to build hybrid systems by integrating important automation technologies, such as Pneumatics, Electrical, PLC, Mechanical, Sensors.

- Dispensing Station : Stack magazine and vacuum switch module for distribution of work piece for inspection
- Inspection Station: Pneumatic linear drive fitted with linear transducer measures the height of work piece and segregates the approved / rejected ones
- Buffer Station: Holds a buffer stock of maximum 5 work pieces and feeds them to the processing station
- Processing Station: Demonstrates processes like drilling, inspection and transfer of finished component to the next station
- Sorting Station: Finished components are sorted to the appropriate bay based on their material and colour
- Pneumatics
- Electrical
- PLC
- Mechanical
- Sensors

Note: Specifications are subject to change.

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Feeder station - 52200A



Technical Specification

| | |
|--|--------------------------------------|
| Size (in cm) | : 54x70x134 |
| Installation | : Vertical |
| Ambient temperature | : 60°C Max. |
| Medium | : Filtered Compressed air |
| Operating Pressure range (Bar) | : 6-8 bar |
| Operating Voltage +/- 10% | : 230V AC, 50HZ |
| Power consumption | : 180 W (224 VA) |
| Sensors and actuator operating voltage | : 24V, DC |
| Material of construction | : Aluminum, mild steel, Plastic.etc. |

| Sr.No. | Item Description | Qty. |
|--------|---|------|
| 1 | Horizontal profile table work bench | 1 |
| 2 | Stack magazine module | 1 |
| 3 | Changer module | 1 |
| 4 | Valve manifold assembly | 1 |
| 5 | Compact ejector assembly | 1 |
| 6 | IO Interface module with 25 pin D Sub connector. | 1 |
| 7 | FRL Assembly | 1 |
| 8 | PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO & Integrated power supply | 1 |
| 9 | Acrylic Door assembly with magnetic lock | 1 |
| 10 | Control console assembly | 1 |
| 11 | Cable duct and accessories | 1 |
| 12 | Work book for Feeder station | 1 |

Note: Specifications are subject to change.

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Inspection Station - 52200B



Technical Specification

| | |
|--|--------------------------------------|
| Size (in cm) | : 68x64x135 |
| Installation | : Vertical |
| Ambient temperature | : 60°C Max. |
| Medium | : Filtered Compressed air |
| Operating Pressure range (Bar) | : 6-8 bar |
| Operating Voltage +/- 10% | : 230V AC, 50HZ |
| Power consumption | : 180 W (224 VA) |
| Sensors and actuator operating voltage | : 24V, DC |
| Material of construction | : Aluminum, mild steel, Plastic.etc. |

| Sr.No. | Item Description | Qty. |
|--------|--|------|
| 1 | Horizontal profile table work bench | 1 |
| 2 | Measuring module with LVDT | 1 |
| 3 | Slide module with approved and rejection slide | 1 |
| 4 | Valve manifold assembly | 1 |
| 5 | IO Interface module | 1 |
| 6 | FRL Assembly | 1 |
| 7 | PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, Analog input module with 4 inputs & Integrated power supply | 1 |
| 8 | Control console assembly | 1 |
| 9 | Cable duct and accessories | 1 |
| 10 | Acrylic Door assembly with magnetic lock | 1 |
| 11 | Work book for Inspection station | 1 |

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Buffer Station - 52200C



Technical Specification

| | |
|--|--------------------------------------|
| Size (in cm) | : 55x64x106 |
| Installation | : Vertical |
| Ambient temperature | : 60°C Max. |
| Medium | : Filtered Compressed air |
| Operating Pressure range (Bar) | : 6-8 bar |
| Operating Voltage +/- 10% | : 230V AC, 50HZ |
| Power consumption | : 180 W (224 VA) |
| Sensors and actuator operating voltage | : 24V, DC |
| Material of construction | : Aluminum, mild steel, Plastic.etc. |

| Sr.No. | Item Description | Qty. |
|--------|---|------|
| 1 | Horizontal profile table work bench | 1 |
| 2 | Conveyor assembly with DC brushless motor | 1 |
| 3 | Valve manifold assembly | 1 |
| 4 | IO Interface module | 1 |
| 5 | FRL Assembly | 1 |
| 6 | PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, DC brushless motor driver unit & Integrated power supply | 1 |
| 7 | Control console assembly | 1 |
| 8 | Acrylic Door assembly with magnetic lock | 1 |
| 9 | Cable duct and accessories | 1 |
| 10 | Workbook for Buffer station | 1 |

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Process Station - 52200D



Technical Specification

| | | |
|--|---|------------------------------------|
| Size (in cm) | : | 72x64x141 |
| Installation | : | Vertical |
| Ambient temperature | : | 60°C Max. |
| Medium | : | Filtered Compressed air |
| Operating Pressure range (Bar) | : | 6-8 bar |
| Operating Voltage +/- 10% | : | 230V AC, 50HZ |
| Power consumption | : | 180 W (224 VA) |
| Sensors and actuator operating voltage | : | 24V, DC |
| Material of construction | : | Aluminum, mild steel, Plastic.etc. |

| Sr.No. | Item Description | Qty. |
|--------|--|------|
| 1 | Horizontal profile table work bench | 1 |
| 2 | Rotary indexing table module | 1 |
| 3 | Drilling module | 1 |
| 4 | Pick and Place module | 1 |
| 5 | Valve manifold assembly | 1 |
| 6 | Compact ejector assembly | 1 |
| 7 | IO Interface module | 1 |
| 8 | FRL Assembly | 1 |
| 9 | PLC panel assembly - Siemens PLC (S7-1200) with 14 DI / 10 DO, Digital expansion module with 8 DI/ 8DO & Integrated power supplies | 1 |
| 10 | Control console assembly | 1 |
| 11 | Acrylic Door assembly with magnetic lock | 1 |
| 12 | Cable duct and accessories | 1 |
| 13 | Workbook for process station | 1 |

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Sorting Station - 52200E



Technical Specification

| | | |
|--|---|------------------------------------|
| Size (in cm) | : | 54x64x110 |
| Installation | : | Vertical |
| Ambient temperature | : | 60°C Max. |
| Medium | : | Filtered Compressed air |
| Operating Pressure range (Bar) | : | 6-8 bar |
| Operating Voltage +/- 10% | : | 230V AC, 50HZ |
| Power consumption | : | 180 W (224 VA) |
| Sensors and actuator operating voltage | : | 24V, DC |
| Material of construction | : | Aluminum, mild steel, Plastic.etc. |

| Sr.No. | Item Description | Qty. |
|--------|---|------|
| 1 | Horizontal profile table work bench | 1 |
| 2 | Conveyor assembly with DC brushless motor | 1 |
| 3 | Sorting slide assembly | 1 |
| 3 | Valve manifold assembly | 1 |
| 4 | IO Interface module | 1 |
| 5 | FRL Assembly | 1 |
| 6 | PLC panel assembly - Siemens PLC (S7-1200) with 14 DI/10 DO, DC brushless motor driver unit & Integrated power supply | 1 |
| 7 | Control console assembly | 1 |
| 8 | Acrylic Door assembly with magnetic lock | 1 |
| 9 | Cable duct and accessories | 1 |
| 10 | Workbook for Sorting station | 1 |

Note: Specifications are subject to change.

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