

C/15T

Multi-purpose, desktop size machine to support small-volume, high-quality cell production. Comes in: 4-axis control, 3-axis control, and 2-axis control.

- 700 mm/sec maximum speed (X, Y axes)
- \blacksquare ±0.01 mm repeatable positioning accuracy (X, Y axes)
- Software available for easy operation (optional)
- Robot language programs for higher functionality

Janome Sewing Machine Co., Ltd.

■Unit Specifications CAST-PR3

| Item | | 4-axes | 3-axes | 2-axes |
|--|------------|---|------------------------|---------------|
| Work envelope | X axis | 350 mm | | |
| | Y axis | 350 mm | | |
| | Z axis | 100 mm | | I |
| | R axis | 360° | - | _ |
| Maximum speed*4 | X axis | 700 mm/s ⁻¹ | | |
| | Y axis | 700 mm/s ⁻² | | |
| | Z axis | 200 mm/s*1 | 300 mm/s ^{*1} | 1 |
| | R axis | 720°/s ^{^3} | _ | - |
| Pose repeatability '5 (positioning accuracy) | X axis | ± 0.01 mm | | |
| | Y axis | \pm 0.01 mm | | |
| | Z axis | ± 0.02 mm | | 1 |
| | R axis | ± 0.05° | _ | - |
| Maximum load | Tool | 2 kg | | 6 kg |
| | Work piece | 10 kg | | |
| Unit weight | | Approx. 44 kg | Approx. 42 kg | Approx. 37 kg |
| Ambient operating temperature | | 0 - 40 °C | | |
| Transport and storage temperature | | -10 to 60 °C | | |
| Power supply voltage | | AC 100 - 120V ± 10% , AC 200 - 240V ± 10% 50/60Hz | | |
| Power consumption | | 300 VA | | |
| Grounding | | Type D grounding | | |

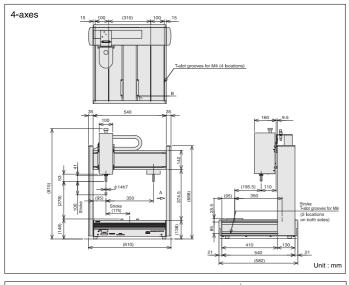
- *1. When the tool is 1.5 kg or less. Set the speedbased on the use conditions. *2. When the work piece is 6 kg or less, set the speed based on the use conditions.
- *3. When the tool inertia is 45 kg/cm² or less, set the speed based on the use conditions.*4. Speed can be set. May not reach the specified value depending on the travel distance.
 *5. Conditions: Temperature 20 ± 0.2 °C measured from one direction.

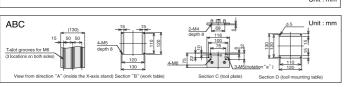
■Control Specifications

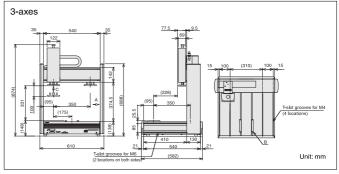
| Drive method | 5-phase pulse motor (open loop control) | | |
|---|---|--|--|
| Movement method | PTP. CP | | |
| Control axis count | Maximum of 4 axes (simultaneous control of all axes possible) | | |
| Speed control | 7 - 700 mm/s (CP control setting value 0.1 - 500 mm/s) ¹⁶ | | |
| Programming method | Full open: robot language in LUNA; A-card (optional): contains standard software | | |
| Program capacity | Full open: total 176 Kbyte; A-card (optional): max. of 40 work programs ⁷ | | |
| Teaching method | Direct teaching using teaching pendant (optional) Off-line teaching using a personal computer (optional) | | |
| Point data storage capacity | Full open: 3,072 points per program; A-card (optional): max. of 2,500 points ^{*8} | | |
| Multitask function (full open specification use possible) | LUNA tasks: 9 tasks (operating 1, peripheral 8) System tasks: 1 PLC tasks: 1 | | |
| Internal PLC function | Programming method: Boolean algebra; operating status: independent of main unit operation; I/O: uses user I/O | | |
| User I/O points*9 | Full open: 40 points each I/O; A-card: 22 points each I/O | | |
| Serial I/F | RS232C: 1 channel (general purpose) | | |

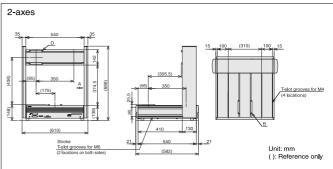
-6. When the A Card(optional) is used, the speed range changes. Refer to the operation manual for details. '7. Work program is a program of point data of different work positions The number of available point data changes depending on the A Card specifications. *8. At max. of 40 work programs, the number of available point data is 60, not the number of max. points. *9. Some of the user I/O are pre-assigned as part of the system. For details refer to the operation manual.

External Dimensions









⚠ Safety Notice: For your safety, please read the operation manual carefully before using the product.

Specifications and appearance are subject to change without prior notice.

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