The NEW FANUC LR Mate 200iD/4S FENCELESS CERT Cart was developed from combining FANUC DCS Position and Speed Check software with an Allen Bradley SafeZone Mini Safety Laser Scanner. The result is FANUC's NEW FENCELESS Cart that will still fit through a standard door and runs off 110V power. The FENCELESS cart allows a greater work envelope and introduces students to the latest in integrated safety products from FANUC and Allen Bradley.

- Can accommodate either LR Mate 200iD or LR Mate 200iD/4S
- 180+ degree work envelope
- Space on worktable for all PBL kits: Including Shapes and optional PBL kits (Battery, Pill, and New Palletizing blocks)
- Part #’s for PBL printed on table top for easy ordering
- NEW Integrated Safety Stack light
- NEW 4.6 Gallon Ultra Quiet Air Compressor
- NEW Easy Rolling all direction locking Casters
- Standard: Gripper Fingers with embedded laser pointer for Shape outlines and other projects
- Optional: Multi End-of-Arm Tooling with suction cups
- Optional: Integrated Robot mounted 2D iRVision Camera
- Optional: 2D iRVision Light Kit

Safety Specifications

- RIA/ISO10218 Compliant
- Safely monitor the position or speed of the robot and shut down motor power when the defined safety parameters are exceeded
- DCS speed checking zones (slow speed 125mm/sec and zero speed) are OSSD safety rated inputs from the scanner
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LR Mate 20iD/7C</th>
<th>LR Mate 20iD/7H</th>
<th>LR Mate 20iD/7L</th>
<th>LR Mate 20iD/4S</th>
<th>LR Mate 20iD/4SC</th>
<th>LR Mate 20iD/4SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlled axes</td>
<td>6 axes</td>
<td>5 axes</td>
<td>6 axes</td>
<td>6 axes</td>
<td>5 axes</td>
<td>5 axes</td>
</tr>
<tr>
<td>Reach</td>
<td>717 mm</td>
<td>911 mm</td>
<td>550 mm</td>
<td>550 mm</td>
<td>550 mm</td>
<td>550 mm</td>
</tr>
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</table>

#### Motion range (Maximum speed)

<table>
<thead>
<tr>
<th>Axis</th>
<th>Max speed (rad/s)</th>
<th>Max speed (rad/s)</th>
<th>Max speed (rad/s)</th>
<th>Max speed (rad/s)</th>
<th>Max speed (rad/s)</th>
<th>Max speed (rad/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>5.93 rad/6.28 rad</td>
<td>5.93 rad/6.28 rad</td>
<td>5.93 rad/6.28 rad</td>
<td>5.93 rad/6.28 rad</td>
<td>5.93 rad/6.28 rad</td>
<td>5.93 rad/6.28 rad</td>
</tr>
<tr>
<td>J2</td>
<td>4.28 rad (6.63 rad)</td>
<td>4.28 rad (6.41 rad)</td>
<td>4.28 rad (6.41 rad)</td>
<td>4.28 rad (6.41 rad)</td>
<td>4.28 rad (6.41 rad)</td>
<td>4.28 rad (6.41 rad)</td>
</tr>
<tr>
<td>J3</td>
<td>7.33 rad (5.08 rad)</td>
<td>7.33 rad (5.08 rad)</td>
<td>7.33 rad (5.08 rad)</td>
<td>7.33 rad (5.08 rad)</td>
<td>7.33 rad (5.08 rad)</td>
<td>7.33 rad (5.08 rad)</td>
</tr>
<tr>
<td>J4</td>
<td>5.93 rad (6.28 rad)</td>
<td>5.93 rad (6.28 rad)</td>
<td>5.93 rad (6.28 rad)</td>
<td>5.93 rad (6.28 rad)</td>
<td>5.93 rad (6.28 rad)</td>
<td>5.93 rad (6.28 rad)</td>
</tr>
<tr>
<td>J5</td>
<td>4.36 rad (9.51 rad)</td>
<td>4.36 rad (9.51 rad)</td>
<td>4.36 rad (9.51 rad)</td>
<td>4.36 rad (9.51 rad)</td>
<td>4.36 rad (9.51 rad)</td>
<td>4.36 rad (9.51 rad)</td>
</tr>
<tr>
<td>J6</td>
<td>12.57 rad (17.45 rad)</td>
<td>12.57 rad (17.45 rad)</td>
<td>12.57 rad (17.45 rad)</td>
<td>12.57 rad (17.45 rad)</td>
<td>12.57 rad (17.45 rad)</td>
<td>12.57 rad (17.45 rad)</td>
</tr>
</tbody>
</table>

#### Max load capacity at wrist

<table>
<thead>
<tr>
<th>Axis</th>
<th>Max load capacity</th>
<th>Max load capacity</th>
<th>Max load capacity</th>
<th>Max load capacity</th>
<th>Max load capacity</th>
<th>Max load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4</td>
<td>16.6 N·m</td>
<td>16.6 N·m</td>
<td>16.6 N·m</td>
<td>16.6 N·m</td>
<td>16.6 N·m</td>
<td>16.6 N·m</td>
</tr>
<tr>
<td>J5</td>
<td>5.5 N·m (option)</td>
<td>5.5 N·m (option)</td>
<td>5.5 N·m (option)</td>
<td>5.5 N·m (option)</td>
<td>5.5 N·m (option)</td>
<td>5.5 N·m (option)</td>
</tr>
<tr>
<td>J6</td>
<td>4.9 N·m</td>
<td>4.9 N·m</td>
<td>4.9 N·m</td>
<td>4.9 N·m</td>
<td>4.9 N·m</td>
<td>4.9 N·m</td>
</tr>
</tbody>
</table>

#### Allowable load moment at wrist

<table>
<thead>
<tr>
<th>Axis</th>
<th>Allowable load moment</th>
<th>Allowable load moment</th>
<th>Allowable load moment</th>
<th>Allowable load moment</th>
<th>Allowable load moment</th>
<th>Allowable load moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4</td>
<td>0.47 kg·m²</td>
<td>0.47 kg·m²</td>
<td>0.47 kg·m²</td>
<td>0.47 kg·m²</td>
<td>0.47 kg·m²</td>
<td>0.47 kg·m²</td>
</tr>
<tr>
<td>J5</td>
<td>0.15 kg·m²</td>
<td>0.15 kg·m²</td>
<td>0.15 kg·m²</td>
<td>0.15 kg·m²</td>
<td>0.15 kg·m²</td>
<td>0.15 kg·m²</td>
</tr>
</tbody>
</table>

#### Repeatability

<table>
<thead>
<tr>
<th>Axis</th>
<th>± 0.02 mm</th>
<th>± 0.03 mm</th>
<th>± 0.03 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4</td>
<td>± 0.02 mm</td>
<td>± 0.03 mm</td>
<td>± 0.03 mm</td>
</tr>
<tr>
<td>J5</td>
<td>± 0.02 mm</td>
<td>± 0.03 mm</td>
<td>± 0.03 mm</td>
</tr>
<tr>
<td>J6</td>
<td>± 0.02 mm</td>
<td>± 0.03 mm</td>
<td>± 0.03 mm</td>
</tr>
</tbody>
</table>

#### Mass (Note 3)

<table>
<thead>
<tr>
<th>Axis</th>
<th>Mass (kg)</th>
<th>Mass (kg)</th>
<th>Mass (kg)</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4</td>
<td>25 kg</td>
<td>25 kg</td>
<td>25 kg</td>
<td>25 kg</td>
</tr>
<tr>
<td>J5</td>
<td>24 kg</td>
<td>24 kg</td>
<td>24 kg</td>
<td>24 kg</td>
</tr>
<tr>
<td>J6</td>
<td>20 kg</td>
<td>20 kg</td>
<td>20 kg</td>
<td>20 kg</td>
</tr>
</tbody>
</table>

#### Installation environment

- Ambient temperature: 0~45°C
- Ambient humidity: Normally 75%RH or less
- Short term: 95%RH or less (within one month)
- Vibration acceleration: 4.9m/s² (0.5G) or less

Note 1: In case of short distance motion, the axis speed may not reach the maximum value stated.

Note 2: Angle mounting needs and axis motion range restriction according with the payload, except for LR Mate 20iD/4S, 4SC, and 4SH.

Note 3: Without controller.

Note 4: Without controller

Note 5: Without controller

Note 6: Without controller

Note 7: Without controller

Note 8: Without controller

Note 9: Without controller

Note 10: Without controller

Note 11: Without controller

Note 12: Without controller

Note 13: Without controller

Note 14: Without controller

Note 15: Without controller

Note 16: Without controller

Note 17: Without controller

Note 18: Without controller

Note 19: Without controller

Note 20: Without controller

Note 21: Without controller

Note 22: Without controller

Note 23: Without controller

Note 24: Without controller

Note 25: Without controller

Note 26: Without controller

Note 27: Without controller

Note 28: Without controller

Note 29: Without controller

Note 30: Without controller

Note 31: Without controller

Note 32: Without controller

Note 33: Without controller

Note 34: Without controller

Note 35: Without controller

Note 36: Without controller

Note 37: Without controller

Note 38: Without controller

Note 39: Without controller

Note 40: Without controller

Note 41: Without controller

Note 42: Without controller

Note 43: Without controller

Note 44: Without controller

Note 45: Without controller

Note 46: Without controller

Note 47: Without controller

Note 48: Without controller

Note 49: Without controller

Note 50: Without controller

Note 51: Without controller

Note 52: Without controller

Note 53: Without controller

Note 54: Without controller

Note 55: Without controller

Note 56: Without controller

Note 57: Without controller

Note 58: Without controller

Note 59: Without controller

Note 60: Without controller

Note 61: Without controller

Note 62: Without controller

Note 63: Without controller

Note 64: Without controller

Note 65: Without controller

Note 66: Without controller

Note 67: Without controller

Note 68: Without controller

Note 69: Without controller

Note 70: Without controller

Note 71: Without controller

Note 72: Without controller

Note 73: Without controller

Note 74: Without controller

Note 75: Without controller

Note 76: Without controller

Note 77: Without controller

Note 78: Without controller

Note 79: Without controller

Note 80: Without controller

Note 81: Without controller

Note 82: Without controller

Note 83: Without controller

Note 84: Without controller

Note 85: Without controller

Note 86: Without controller

Note 87: Without controller

Note 88: Without controller

Note 89: Without controller

Note 90: Without controller

Note 91: Without controller

Note 92: Without controller

Note 93: Without controller

Note 94: Without controller

Note 95: Without controller

Note 96: Without controller

Note 97: Without controller

Note 98: Without controller

Note 99: Without controller

Note 100: Without controller

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