Applications
• Carried Spot Welding
• Pedestal Spot Welding
• Material Handling

BX200L

Payload 200 kg
Horizontal Reach 2,597 mm
Vertical Reach 3,420 mm
Repeatability ± 0.2 mm
Maximum Linear Speed 5,000 mm/s

HIGH SPEED SPOT WELDING
Minimized net weight, heavy-duty motors and advanced motion control technology make the B Robot a champion sprinter. It excels at high speed short-pitch movements making it ideal for spot welding. The improved motion sequence by the servo welding guns, as well as the automatic calibration feature to optimize acceleration and deceleration of the gun speed, leads to a significant reduction in cycle time and results in maximum production.

SPACE SAVING DESIGN
Compared to conventional robots with similar payload capacity, the B Robots have a much smaller footprint and narrower body. The small footprint of these slim arm design robots allows for installation in “high-density” applications without impeding performance. In addition, the B-Series robot line houses the cable harnesses within the robot arm, further reducing the amount of work space required and minimizing potential interference.

WIDE WORK ENVELOPE
The Kawasaki B Robot combines a long reach arm with a minimal amount of dead space for a wide work envelope and greater flexibility. Kawasaki Robotics’ years of automotive experience have culminated into an optimal body shop design for both task effectiveness and multi-purpose usage.

INTEGRATED DRESS PACKAGE
The B-Series robot line is manufactured using hollow reduction units for the upper arm. This allows for an internal dressing of the robot from the base to the tool mounting plate. With Kawasaki’s integrated dress package, the manufacturing line build and digital engineering time is greatly reduced and interference with adjacent robots or peripheral devices is minimized.

HIGH QUALITY & LOW-MAINTENANCE
B Robots boast industry leading reliability and 10,000 hours maintenance intervals, which translate to low operating costs and the highest production efficiencies.

PROTECTION FROM HARSH ENVIRONMENTS
B-Series Robots can operate in some of the harshest environments due to the Kawasaki sealed arm design. Robot maintenance due to contamination can be eliminated.

The B-Series line of body shop robots were developed using Kawasaki’s proven advanced technology and extensive automotive experience to take performance to the next level. The robust, yet lightweight slim design achieves the sought after optimization of functionality, flexibility and investment efficiency for maximum spot welding effectiveness and multi-purpose use.
**BX200L SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Articulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degrees of Freedom</td>
<td>6 axes</td>
</tr>
<tr>
<td>Payload</td>
<td>200 kg</td>
</tr>
<tr>
<td>Horizontal Reach</td>
<td>2,597 mm</td>
</tr>
<tr>
<td>Vertical Reach</td>
<td>3,420 mm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.2 mm</td>
</tr>
<tr>
<td>Maximum Linear Speed</td>
<td>5,000 mm/s at robot flange</td>
</tr>
</tbody>
</table>

**Motion Range & Dimensions**

- **Work Envelope (degrees)** & **Maximum Speed (degrees/s)**
  - JT1: ±160°, 105°/s
  - JT2: +76° ~ -60°, 90°/s
  - JT3: +90° ~ -75°, 100°/s
  - JT4: ±210°, 120°/s
  - JT5: ±125°, 120°/s
  - JT6: ±210°, 200°/s

- **Wrist Load Capacity**
  - JT4: 1,334 N·m, 199.8 kg·m²
  - JT5: 1,334 N·m, 199.8 kg·m²
  - JT6: 588 N·m, 154.9 kg·m²

**Motor(s)**: Brushless AC Servomotor

**Brakes**: All axes

**Hard Stops**: Adjustable mechanical stopper JT1

**Mass**: 930 kg (excluding Options)

**Body Color**: Kawasaki Standard

**Installation**: Floor

**Environmental Conditions**
- Temperature: 0 ~ 45º C
- Humidity: 35 ~ 85 % (no dew, nor frost allowed)
- Vibration: Less than 0.5 G

**Protection Classification**
- Wrist: IP67
- Base: IP65

**Options**
- Linear track options
- Risers
- Base plate
- Adjustable mechanical stopper JT2/JT3
- Wrist flange adapter with ø125 mm mounting pattern
- Adapter bracket for weld guns and other tools
- Integrated dress package

**Controller**: E32 (see E Controller data sheet for specifications)

---

**Note**: Detailed drawings are available upon request.

---

**Simple & friendly**

Assembly • Cutting • Dispensing • Grinding • Handling • Inspection • Packaging • Painting • Palletizing • Polishing • Tending • Welding

Kawasaki Robotics (USA), Inc.

**United States**
28140 Lakeview Drive
Wixom, Michigan 48393
Phone (248) 446-4100
Email sales@kri-us.com

**Canada**
Phone (905) 304-7784

**Mexico**
Phone (52) 33-3110-1895

www.kawasakirobotics.com

BX200L - REV01/14
© Kawasaki Robotics (USA), Inc. All rights reserved.
Technical specifications subject to change without notice.