IRB 2600ID-8/2.00
Simple integration, high performance
Overview of main features

- General purpose robot for integrated dressing solutions.
- Agile, compact and high performing.
- Tailored for arc welding, several welding packages available.
- Longer reach and higher payload than IRB 1600ID for larger work pieces and heavy welding.
- Optimized bending radius of hose package for long life expectancy.
- Most reliable AW process arm.
- Unmatched path and speed accuracy.
- Longest reach in class.
General purpose robot to suit many applications

- Arc welding
- Machine tending
- Material handling
- Laser welding
- Dispensing
Key data

- Payload: 8 kg
- Reach: 2000 mm (to center of axis 5)
- Height: 1600 mm
- Foot print: 676 mm x 511 mm
- Weight: 276 kg
Load diagram with additional armloads (1 + 15 kg)
Up to 8 kg
Load diagram with additional armloads (1 + 15 kg)
Up to 10 kg with wrist vertical*

Load diagram permits +/- 10 degrees on axis 5.
Check RobotLoad for your specific load case.
Working range at center of 5th axis

- Reach forward: 2000 mm
- Reach below the base: 1321 mm
- Reach above the base: 2295 mm
- Horizontal stroke: 3700 mm

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# Working range and max speed per axis

<table>
<thead>
<tr>
<th>Axis</th>
<th>Range</th>
<th>Max speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+180° to -180 °</td>
<td>175 °/s</td>
</tr>
<tr>
<td>2</td>
<td>+155° to -95 °</td>
<td>175 °/s</td>
</tr>
<tr>
<td>3</td>
<td>+75° to -180 °</td>
<td>175 °/s</td>
</tr>
<tr>
<td>4</td>
<td>+175° to -175 °</td>
<td>360 °/s</td>
</tr>
<tr>
<td>5</td>
<td>+120° to -120 °</td>
<td>360 °/s</td>
</tr>
<tr>
<td>6</td>
<td>+400° to -400 °</td>
<td>500 °/s</td>
</tr>
</tbody>
</table>

± 191 rev. max
Performance & accuracy

- Pose repeatability, RP: 0.02 mm
- Pose accuracy, AP: 0.03 mm
- Linear path repeatability, RT: 0.27 mm
- Linear path accuracy, AT: 0.70 mm
- Pose stabilization time, PSt: 0.06 s
  (to within 0.2 mm of the position)
Main Dimensions

R 172 min turning radius of axis 4

R 337 min turning radius of axis 1
Flexible mounting
Floor, wall, ceiling & tilted (round the Y-axis)

- Wall mounting, max working range for axis 1 is ± 40 degrees with max payload and armload. More with reduced loads.
- Max tilting angle for full axis 1 working range is 40 degrees with max payload and armload. More with reduced loads.
- Check with RobotLoad for your specific load case.
Easy to integrate
Customer interfaces

DeviceNet, PROFIBUS or Parallel I/O (CP/CS)

To customer equipment

Air

EtherNet/IP or PROFINET
Easy to integrate
Mechanical mounting interfaces
Easy to integrate
Mechanical mounting interfaces

M6 (x2)

Tool flange

Ø 50 Hole through axis 6

R

Ø 100 h8

R

Ø 55 H7 10

Ø 8 H7 8

Ø 0,05 B C

D

6x M8 10

Ø 0,4 B C D

R-R

6x 60°

30°
Peripheral equipment

Arc welding

IRBP positioner range

Power source
- Esab Aristomig 5000
- Fronius TransSteel 5000*
- Fronius TransSteel 5000*
- Fronius TransSteel 5000*
- SKS LSQ5*

Wire feeder
- Aristo RoboFeed 3004 W
- VR 5000 (new compact)*
- VR 1500*
- VR 5000 (new compact)*
- VR 1500*
- PF5*

Hose package
- Binzel iSTM
- Binzel iSTM*
- Binzel iSTM*
- Fronius Robacta*
- Fronius Robacta*
- Power Joint*

Torch
- Binzel Abirob
- Binzel Abirob*
- Binzel Abirob*
- Fronius Robacta 5000*
- Fronius Robacta 5000*
- Power Joint PJ5*

Tool service center

Motor units MU 10-30

*) Available from the suppliers directly
Summary

- **Up to 90% shorter programming time** thanks to a combination of controlled hose package movements and RobotStudio offline programming with few or no touch-ups.

- **One year warranty** on hose package reduces costs for maintenance and production stops with up to 75%.

- **Up to 15% shorter cycle times** vs. the competition thanks to QuickMove and high accelerations.

- **Up to 50% higher output** with high-density production cells.

- Accurate motion for **outstanding and stable welding results**.

- Hollow wrist inside diameter is 50 mm and is fully utilizable to house dispensing and laser equipment etc.

- Suitable for tending of lighter parts from large machines like injection moulding machines.