

IRB 6620

- The agile spot welder











IRB 6620

- Compact
- Flexible
 - Shelf
 - Upside down
 - Up to 15° tilt
- Powerful
 - 150 kilo payload
- Agile
 - Unsurpassed agility
- Lean
 - No balancing cylinder
 - Only 900 kilos
- Option
 - Foundry Plus

The perfect robot for numerous applications...

...from spot welding to machine tending





IRB 6620 - Compact

IRB 6640

General purpose

- Material handling
- Heavy spot welding
- Press brake tending
- Injection moulding
- Die casting
- Sand core handling
- Electronics
- Packaging...
- 235 kilo
- 2,55 m

IRB 6620

- Compact spot welding robot
- 150 kilo
- **2,20 m**





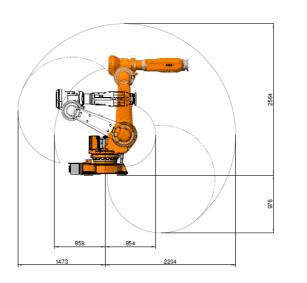
IRB 6640





IRB 6620 - Agile

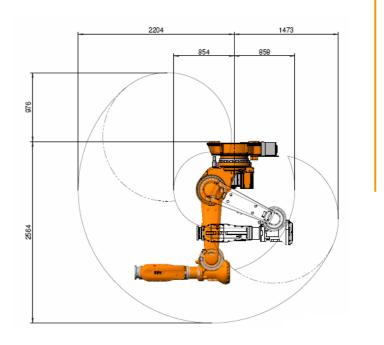
- Huge working range for its size
- Possible to build more dense packed cells
- Saving floor space...
- ... by working as a shelf robot
- ... by inverted mounted robots
- ... working as a crawler robot





IRB 6620 - Agile

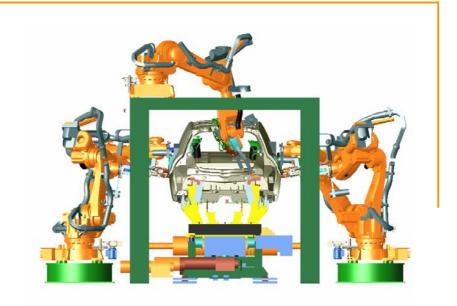
Working range – Inverted mounted





IRB 6620 - Flexible

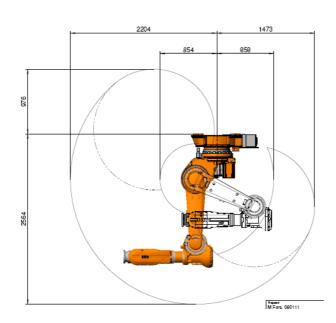
- Two robots in one
 - Normal robot
 - Shelf robot
- Easier to mount the robots
 - inverted
 - on top of another machine

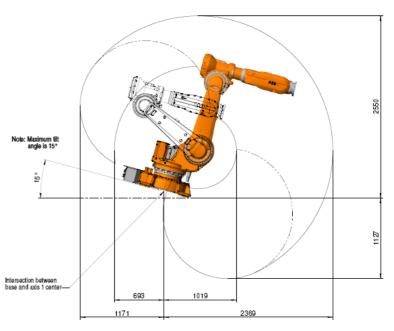




IRB 6620 - Flexible

- Flexible in mounting
 - Floor standing
 - Tilted
 - Inverted (with 150 kilo payload)







IRB 6620 - Designed for Spot Welding

50 kg load capacity on rear upper arm

Can handle all available dress pack designs

No motors on rear upper arm

Compactness in retracted position and no interference with cablings

- Extra space inside robot foot
- Large center hole through axis 1

Easy change of dress pack and long life time dress pack routing



IRB 6620 - Designed for Spot Welding

No counter balancing cylinder

Easy dress pack routing

Calibration in process

The robot can be calibrated with dress pack mounted

Lifting devices on foot

The robot can be lifted with dress pack mounted

Visible synchronization scales

With dress pack mounted

Commonality with IRB 66X0

Foot print, wrist interface etc too simplify auto project logistics





IRB 6620 - Designed for Spot Welding

Low total weight Simplifies installation

Rigid upper arm designCollision resistance

Flexible working range limitation
Electronic Position Switches on all axes





IRB 6620 – Designed for Spot Welding

Insulated wrist flange

Available as option

- Large working range axis 5 also with axis 6 dress pack bracket mounted
 ± 125 °
- Large moment of inertia capability

Flexibility to handle also large tools

Prolonged wrist with smooth surfaces

Dress pack cannot get stuck and life time is enhanced



IRB 6620 – Designed for Spot Welding

Large working range axis 2

Semi shelf concept useful in many SW installations

Gear box weld spatter protection

For harsh spot welding

Axis 2 center as low as possible

To reduce the robot total height





IRB 6620 – Designed for Spot Welding

- Tip dresser on robot foot (option)
 - Extended wrist (so the cables don't get stuck)
 - Wrist designed for a wide working range on axis 5, even with dresspack mounted
 - Easy to exchange dresspack because of excellent reachability
 - No balancing cylinder (no interference when working on robot)
 - Extensive hole through the gear for axis 1 (where the dressing cables pass by)
 - Plenty of room in the robot foot (your hands easily fit when mounting the dressing cables)



IRB 6620 / IRB 6600 - Commonality

Compact gears (axes 1, 2, 3, 6)

- All compact gears from the same supplier
- Axis 6 same as IRB 6640

Motors

- All motors from the same supplier
- Axes 4, 5, 6 same as IRB 6640





IRB 6620 / IRB 6640 - Commonality

Reuse of components IRB 6620 / IRB 6640:

- Calibration equipment
- SMB and Brake Release
- Floor cable interface
- Foot Print
- Bearings axis 4
- Flange interface
- Insulated wrist flange
- Controller and Teach Pendant
- Process cabinet
- 7 and 8 axes configurations
- Spot Welding software







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