



ABB's new mid range robot family IRB 2600 - The sharp generation

The IRB 2600 robot range

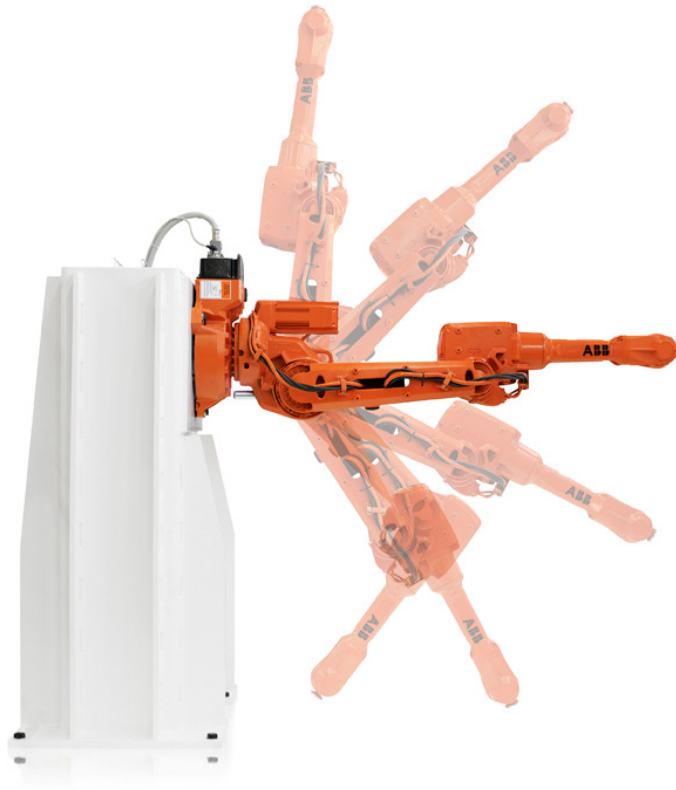
Overview of main features



- 4th generation six axis robot arm
- 3 models in the range
- Compact and lightweight design
- High size to reach ratio
- Fastest 6 axis robot in the ABB range
- All mounting positions available
- Ingress Protection IP67 as standard
- Optional Foundry Plus 2 protection

The IRB 2600 robot range

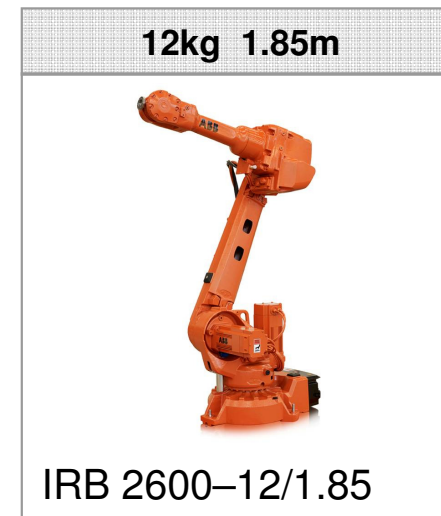
General purpose robot to suit many applications



- Machine tending
- Material handling
- Arc welding
- Laser welding
- Cutting
- Dispensing
- Assembly
- Palletizing and packing
- Inspection and measuring

The IRB 2600 robot range

3 models

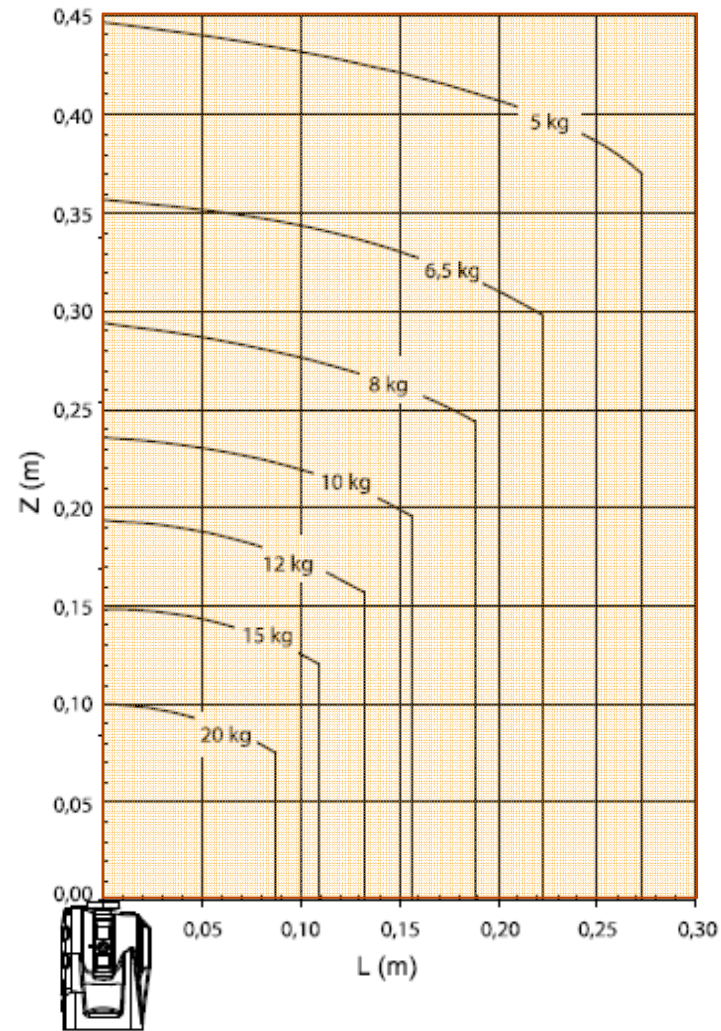
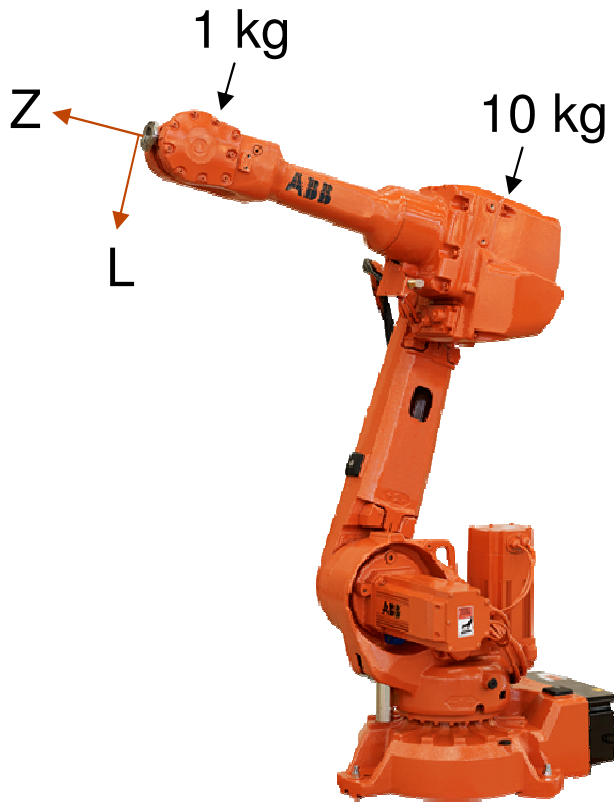


Key data:

- Payload: 12kg and 20kg
- Reach: 1653mm and 1853mm (to center of axis 5)
- Height: 1382mm and 1582mm
- Foot print: 676mm x 511mm
- Weight: 272kg and 284kg

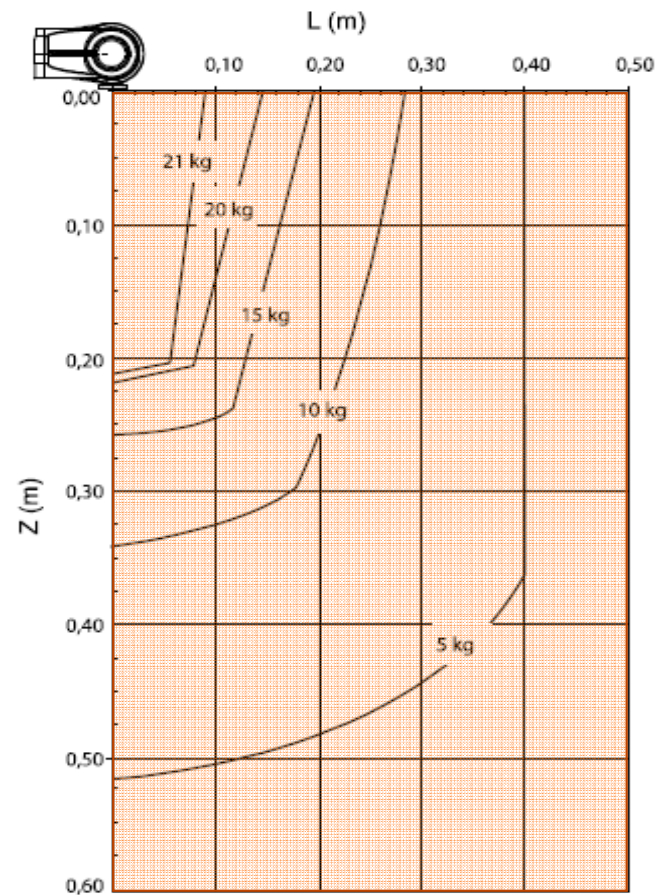
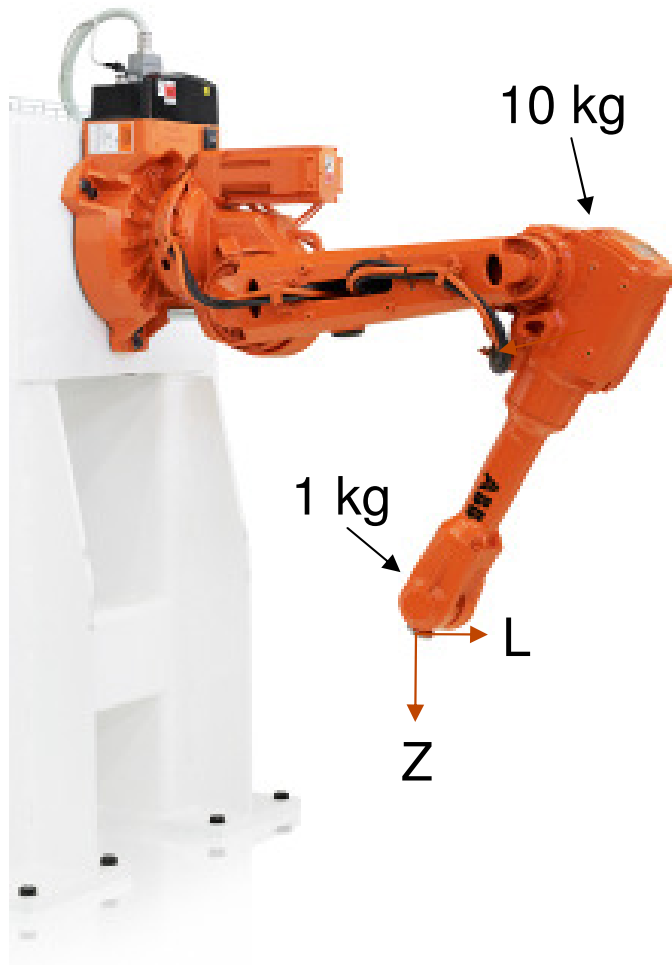
IRB 2600-20/1.65

Load diagram with additional armloads (1kg + 10kg)



IRB 2600-20/1.65

Up to 22kg with wrist vertical*

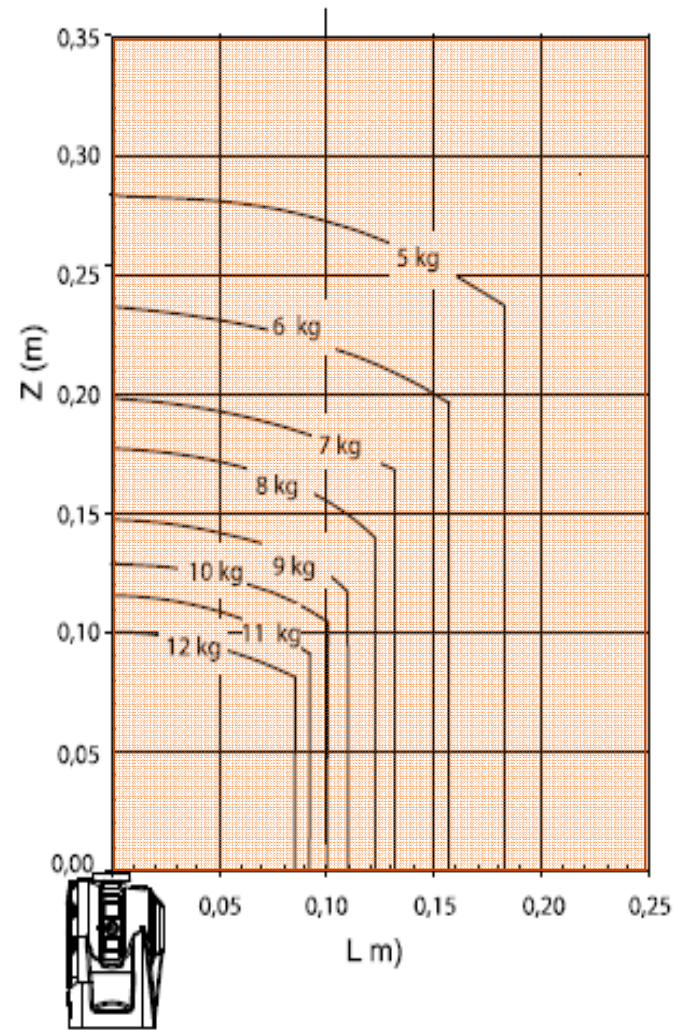
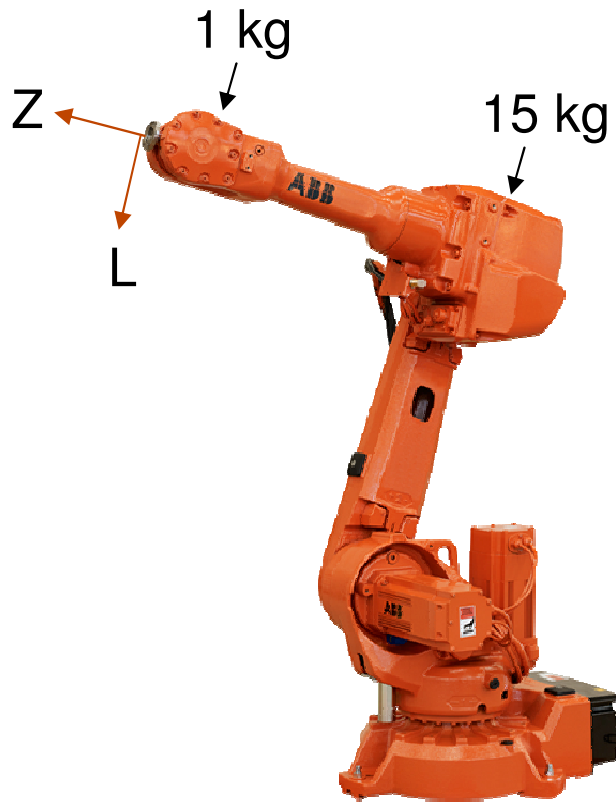


Load diagram permits +/- 10 degrees on axis 5.

* a maximum of 27kg is possible with reduced armloads.
Check RobotLoad for your specific load case.

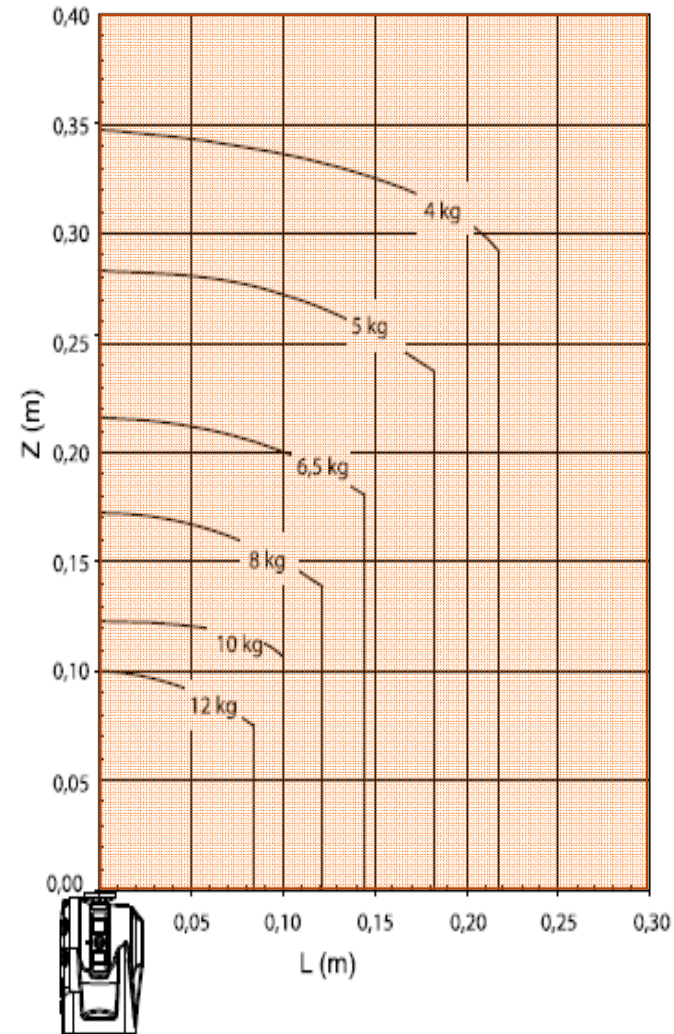
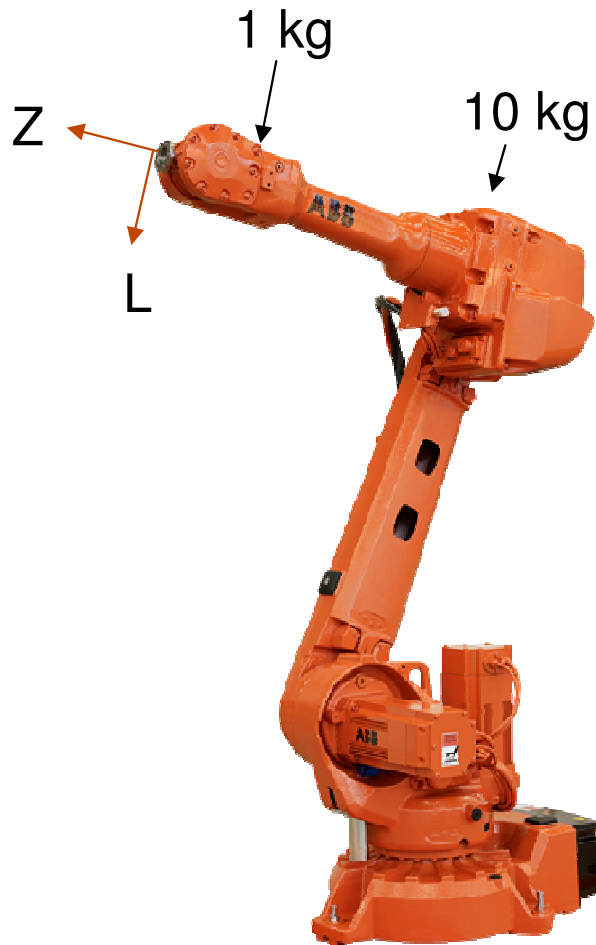
IRB 2600-12/1.65

Load diagram with additional armloads (1kg + 15kg)



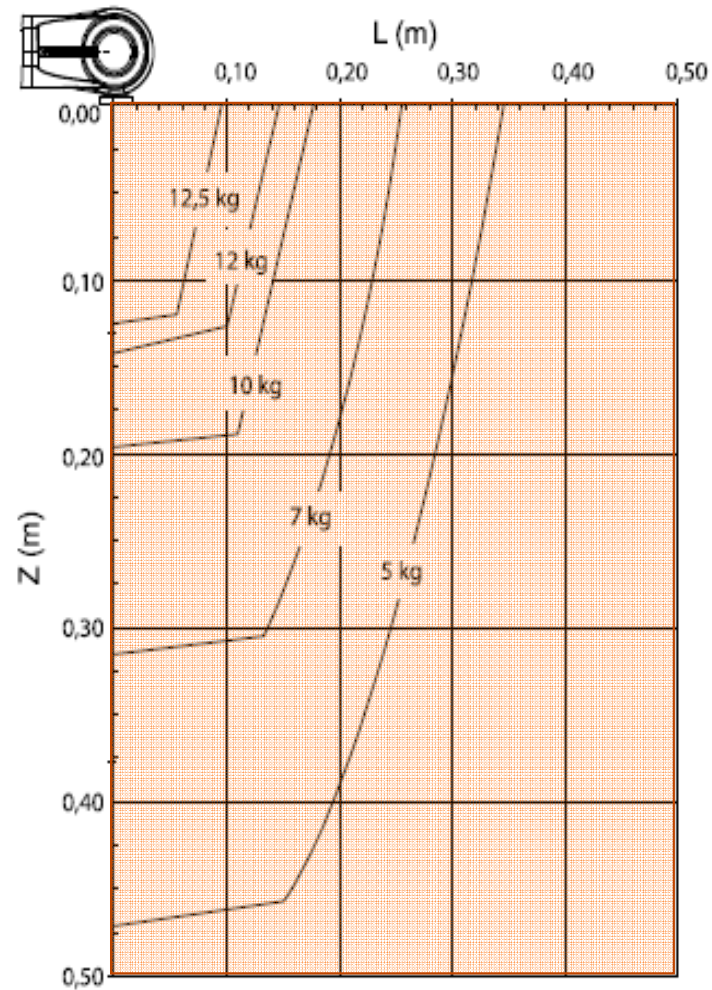
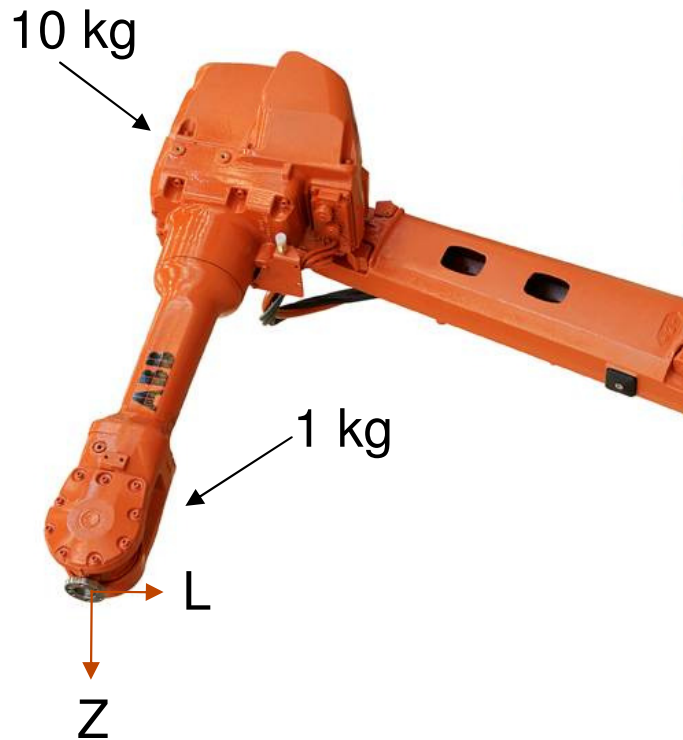
IRB 2600-12/1.85

Load diagram with additional armloads (1kg + 10kg)



IRB 2600-12/1.85

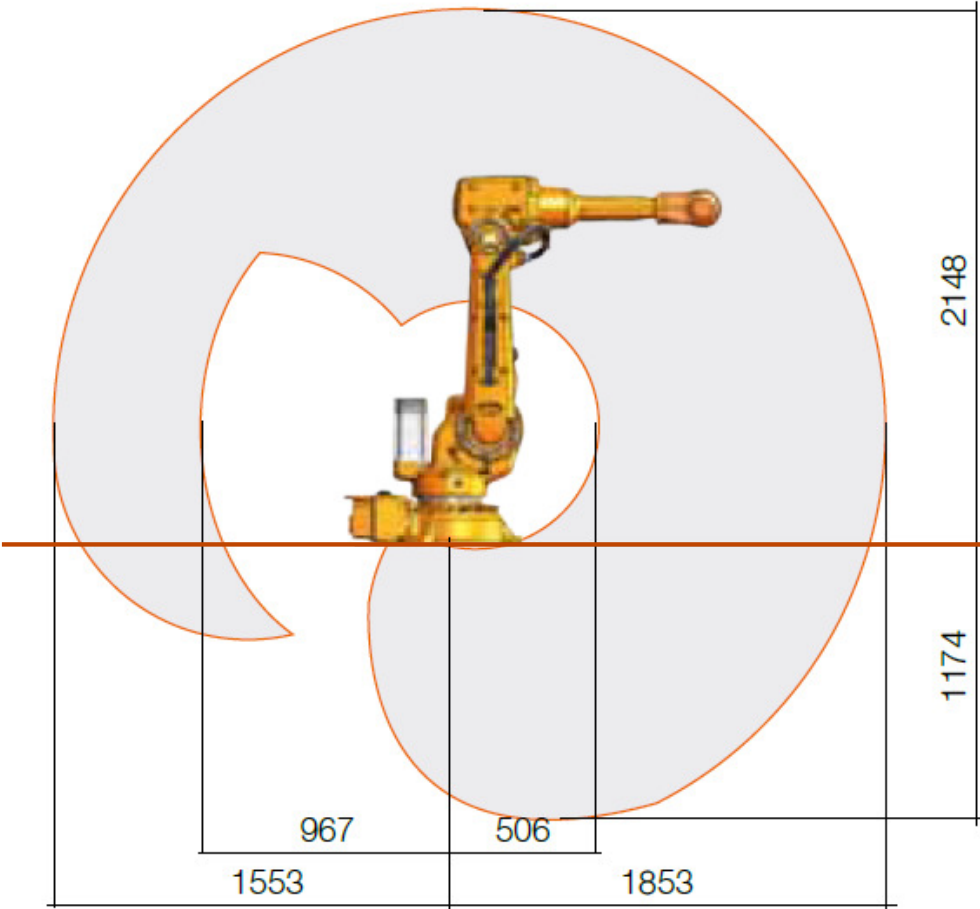
Up to 13kg with wrist vertical



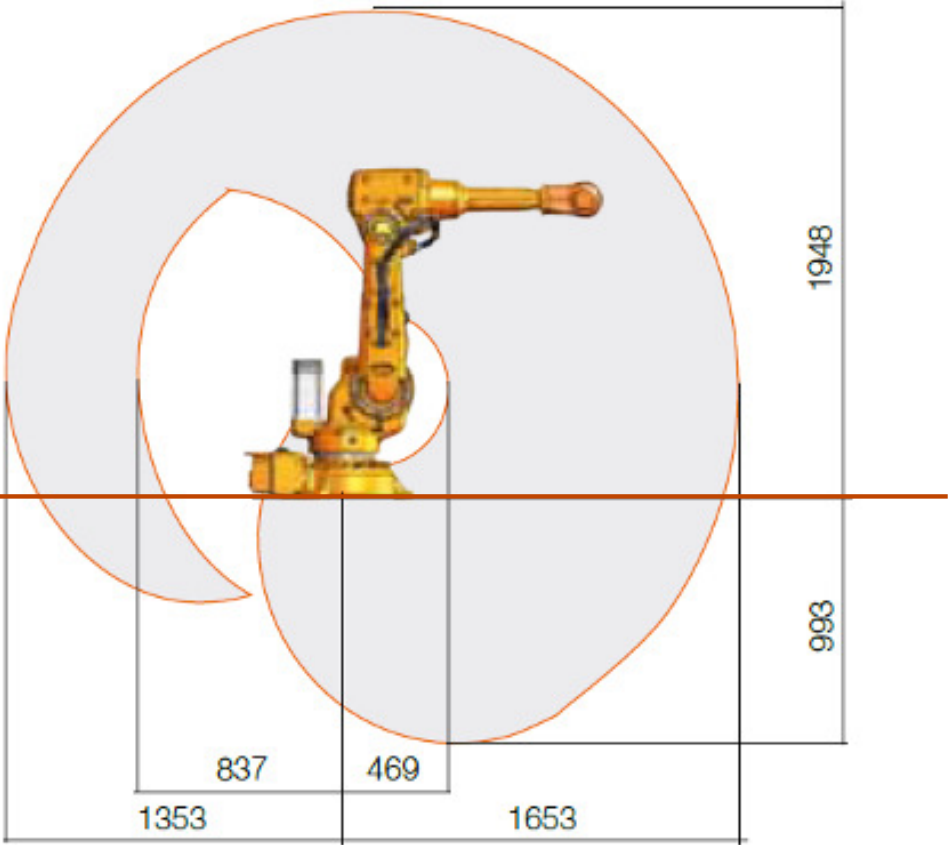
Load diagram permits +/- 10 degrees on axis 5.

Working range at center of 5th axis

High size to reach ratio



IRB 2600-1.85m model



IRB 2600-1.65m models

Working range / Velocity



	Range	Max speed
▪ Axis 1	+180° to -180 °	175 %s
▪ Axis 2	+155° to -95 °	175 %s
▪ Axis 3	+75° to -180 °	175 %s
▪ Axis 4	+400° to -400 ° <i>± 251 rev. max</i>	360 %s
▪ Axis 5	+120° to -120 °	360 %s
▪ Axis 6	+400° to -400 ° <i>± 274 rev. max</i>	500 %s

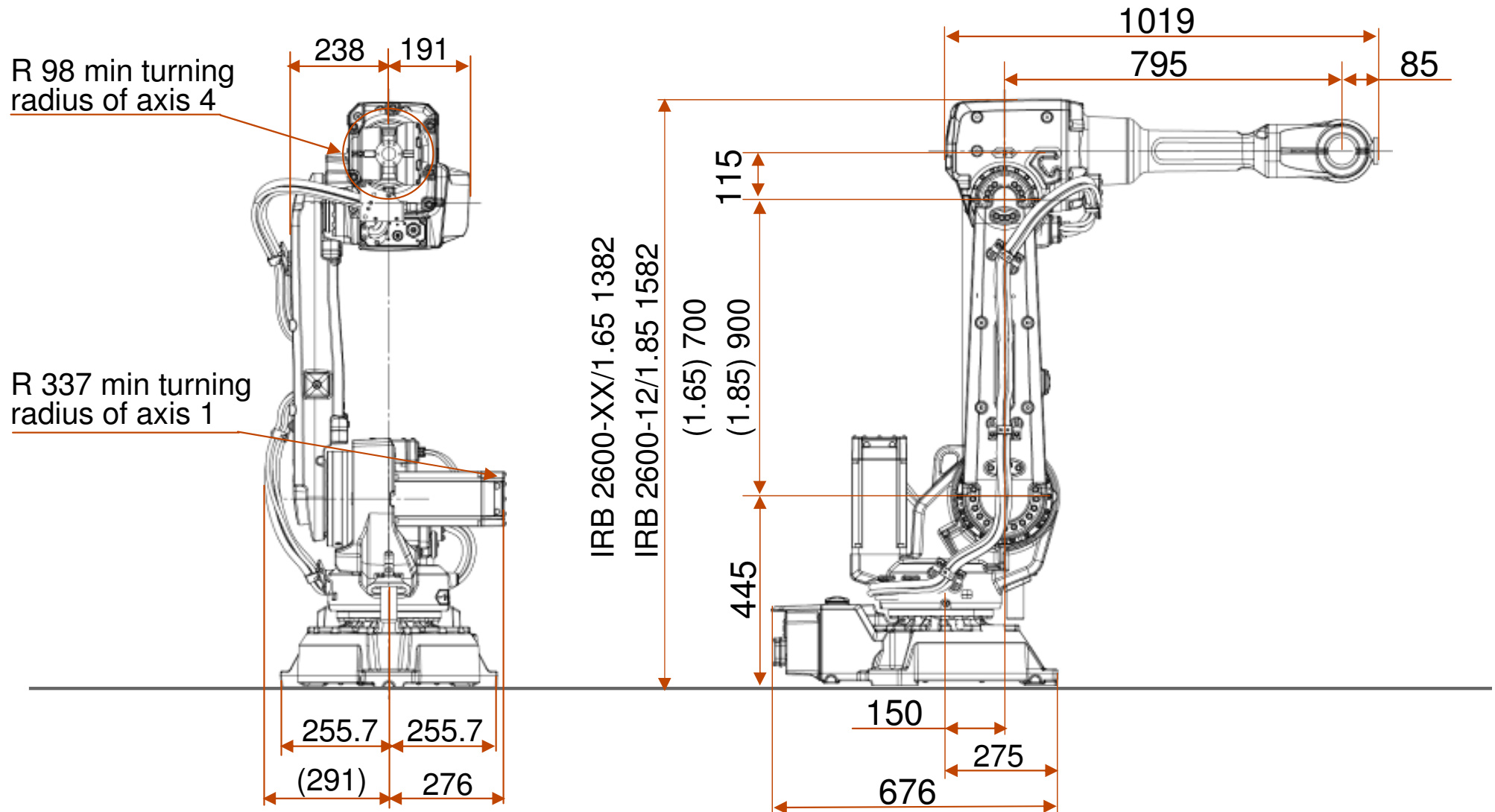
Performance & Accuracy

Tests performed to ISO 9283 standards



- **Pose repeatability (RP)** 0.04 mm
- **Pose accuracy (AP)** 0.03 mm
- **Linear path repeatability (RT)** 0.13 – 0.16 mm
- **Linear path accuracy (AT)** 0.55 – 0.68 mm
- **Pose stabilisation time (PSt)** 0.00 – 0.09 sec.

Main Dimensions



Flexible mounting

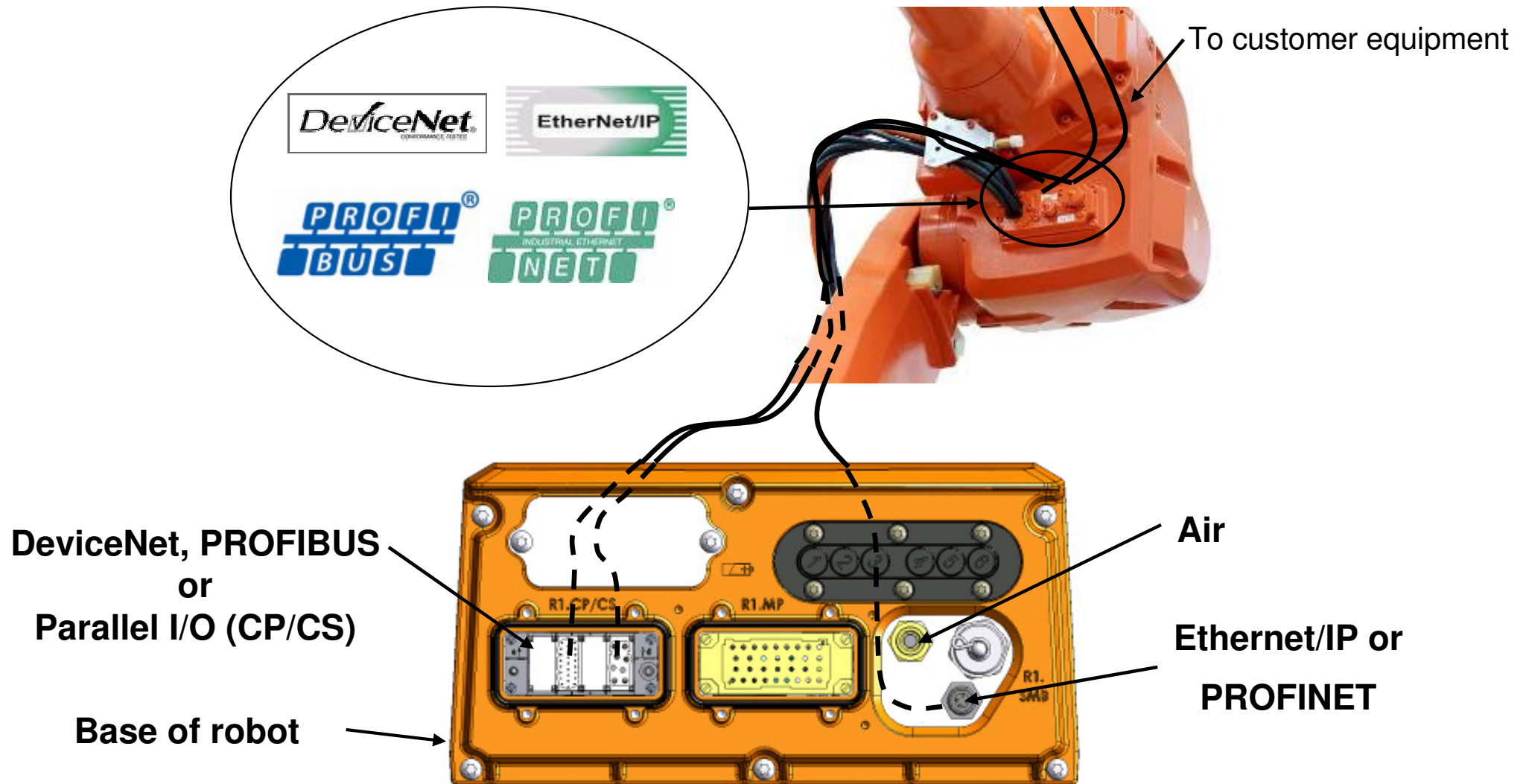
Floor, wall, ceiling & tilted (up to 45° round the Y-axis)



Wall mounting, max working range for axis 1:

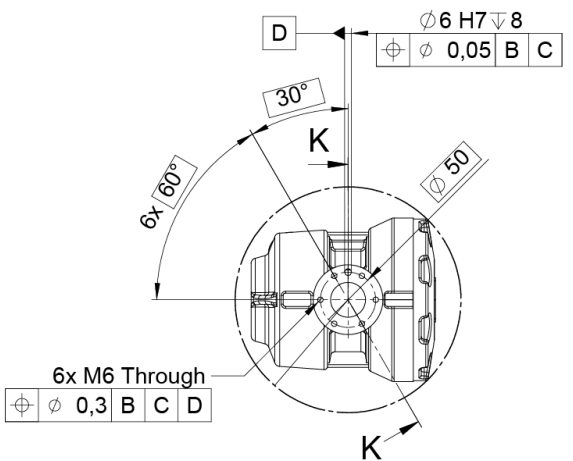
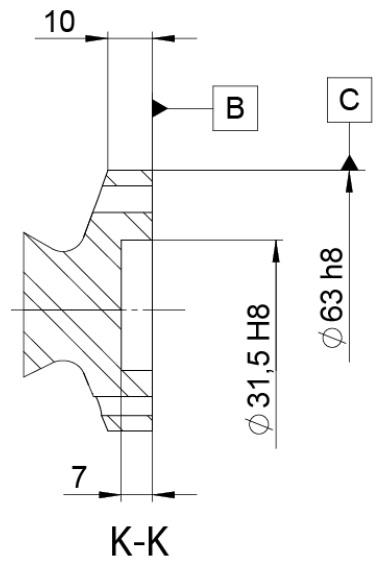
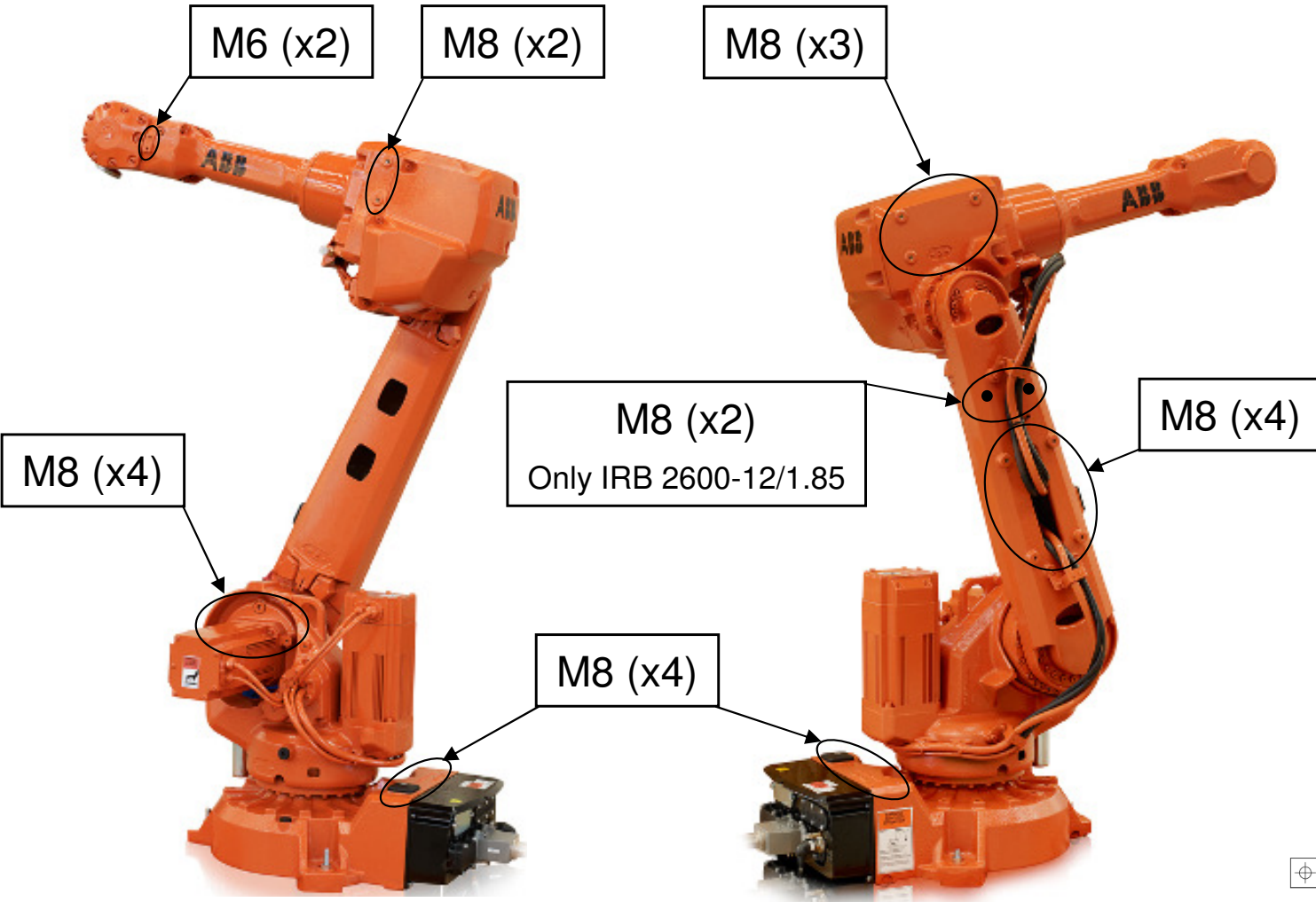
- ± 45 degrees for short arms and ± 40 degrees for IRB 2600-12/1.85 with max payload and armload.
- ± 180 degrees for IRB 2600-XX/1.65 with max 8 kg combined payload and armload.
- Check with RobotLoad for your specific load case.

Easy to integrate Customer interfaces



Easy to integrate

Mechanical mounting interfaces



The IRB 2600 robot range

Summary

- 4th generation robot, based on 37 years experience.
- Compact, lightweight and flexible for maximum space utilization.
- High performance delivering up to 25% shorter cycle times.
- Accurate motion for increased process and product quality.
- Highly reliable with the best in class protection.
- Payload increased 20-70% from 3rd generation.
- Reach below the base increased 110-150% from 3rd generation.
- Easy to use, easy to integrate.
- Four field buses, digital signals, air and power to the upper arm and electronic position switches.

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