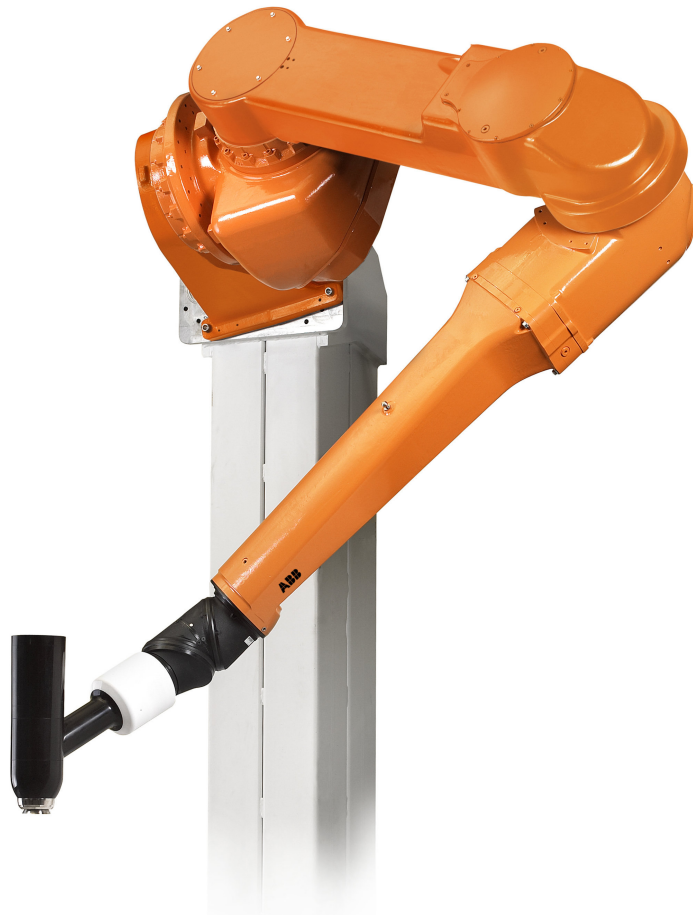


# IRB 5500

## FlexPainter



### A new way of exterior painting

The unique design and configuration of the wall mounted FlexPainter IRB 5500 has created the largest and most flexible robot working envelope of any exterior car body paint robot.

#### Less is more

The FlexPainter IRB 5500 combines high acceleration, painting speed, large working envelope and a unique configuration.

This makes two FlexPainter IRB 5500s capable of handling jobs that up until now has required four paint robots.

The result is lower cost, both initially and in the long run, faster installation, high uptime and reliability.

#### Unique concept

The unique concept of the FlexPainter IRB 5500 allows the robot arms to move parallel both to vertical and horizontal car surfaces, eliminating the need for overlapping (patchwork) painting.

The result is a better finish quality and reduced paint consumption.

#### High flow

The FlexPainter IRB 5500 is specifically designed for ABB's efficient FlexBell Cartridge System (CBS). The loss during color change is close to zero. It is the best solution for non-batch painting and multiple colors.

The combination of ABB's high flow atomizer and the acceleration and speed of the FlexPainter IRB 5500 makes this a unique power performance configuration.

#### Powered by IPS

ABB's exclusive Integrated Process System (IPS) provides high speed and accurate closed loop process control to minimize over-spray and maximize the paint finish quality.

#### High Uptime

ABB's FlexPainter IRB 5500 is designed for 100% uptime. All process equipment is easily accessible on operator floor level.

Powerful software tools like the ShopFloor Editor allow easy programming and process tuning without interrupting production.



### TECHNICAL INFORMATION

#### PERFORMANCE

ABB's new FlexPainter IRB 5500 robot and the new generation of rotary high flow atomizers paints a car body faster than today's industrial standard, while maintaining the highest level of quality and reducing paint losses to a minimum.

Typical acceleration: 20 m/s<sup>2</sup>

Typical painting speed: 1.5 - 2 m/s

Weight: 540 kg

Axis movements:

Axis	Working range	Max. speed
1. Rotation	140°	100 %/s
2. Vertical arm	215°	100 %/s
3. Horizontal arm	140° rel. vertical arm	100 %/s
4. Inner Wrist	indefinite	440 %/s
5. Wrist Bend	indefinite	340 %/s
6. Outer Wrist	920°	500 %/s

#### KEY FEATURES

- No rail
- Wall mounted
- Large working envelope
- High acceleration and painting speed
- Designed for high flow CBS atomizer

#### SPACE SAVER

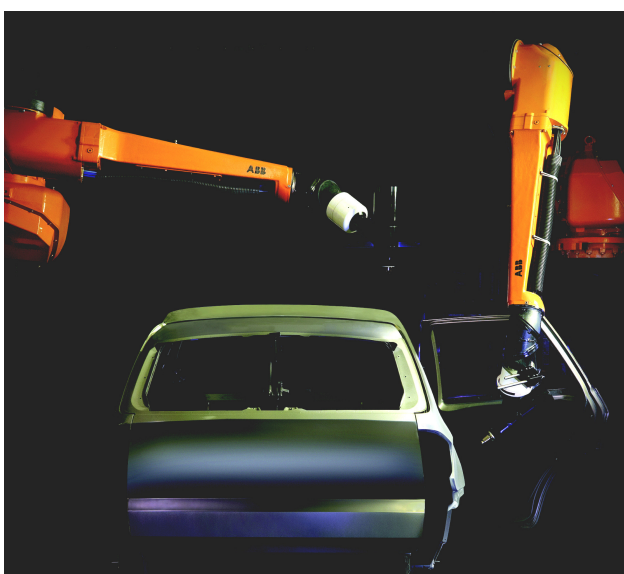
In addition to acceleration, speed, reduced paint losses and high quality results, the FlexPainter IRB 5500 is designed for tight installation, taking up less space on the production line.

#### COST SAVER

That means that less spray booth space is needed on the production line, and the customers can maintain production volumes with fewer painting robots and associated equipment. The FlexPainter is cost cutting in practice.

#### TAILOR MADE

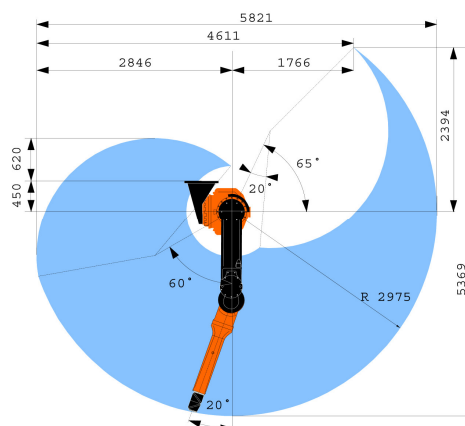
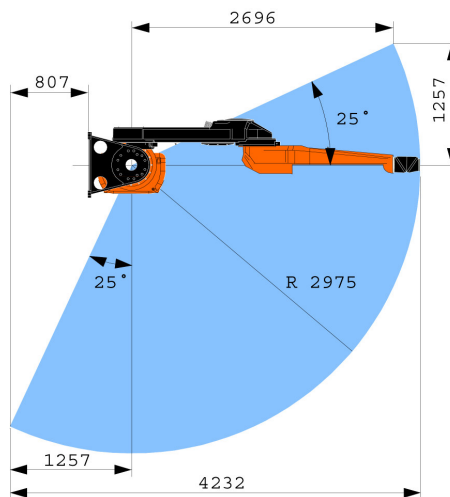
The IRB 5500 is a tailor-made painting solution for the automotive industry. With its fast acceleration and unique design, ABB is pushing the boundaries of auto body painting technology.



#### KEY BENEFITS

- Faster return on investment
- Improved reliability of a complete automation system
- Increased flexibility for new processes and new vehicle models
- Reduced size and environmental impact of robotic paint booths
- Reduced required booth length and width for a robotic paint system
- Reduced air handling volumes for ventilation
- Reduced emissions from booth exhausts
- Reduced machine programming efforts, in time and personnel requirements

#### WORK ENVELOPE



\*) With the atomizer mounted, the horizontal work area is more than 6 meters.

Data and dimensions may be changed without notice.