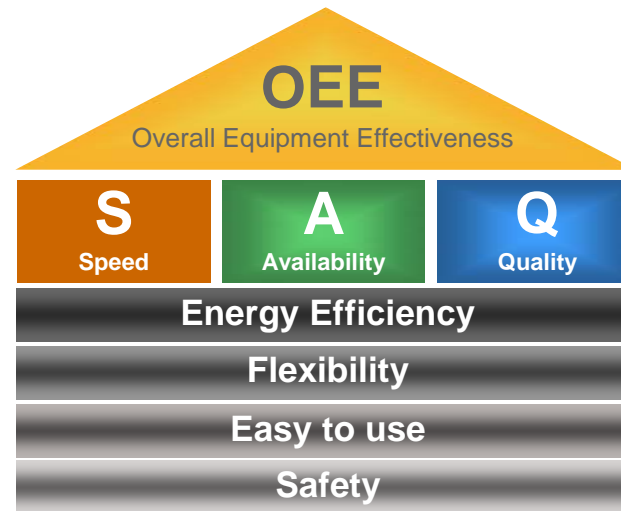


January 2014

ABB Robotics: Press Automation IRB 6660FX

Press Automation

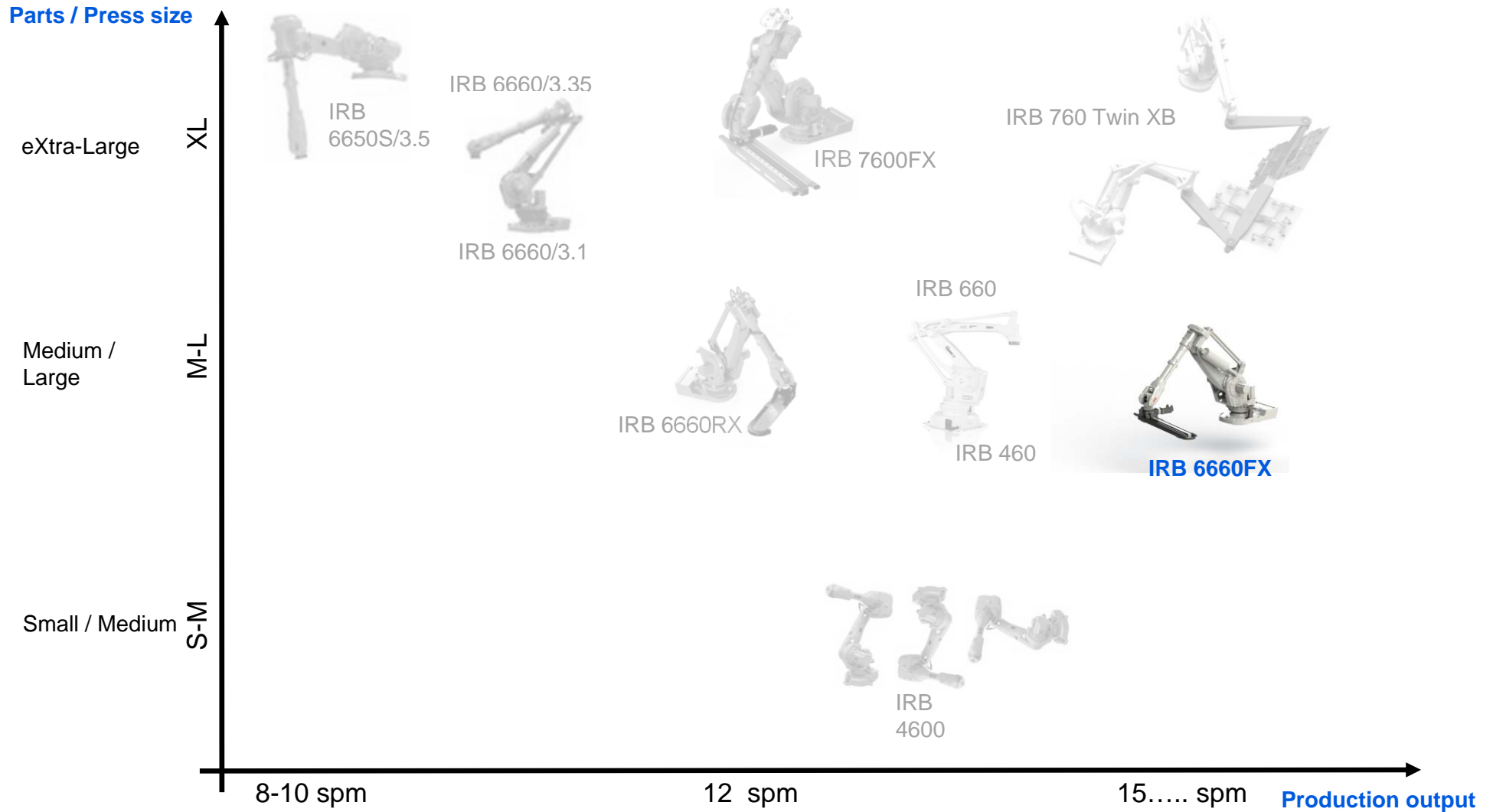
ABB approach



- Press-shop is one of the most capital intensive processes in auto industry
- Increasing output means a higher return over the installed equipment
- Upgrading existing lines (Brownfield's) is also a big focus for ABB

Press Automation

Optimum solution roadmap



IRB 6660 FX

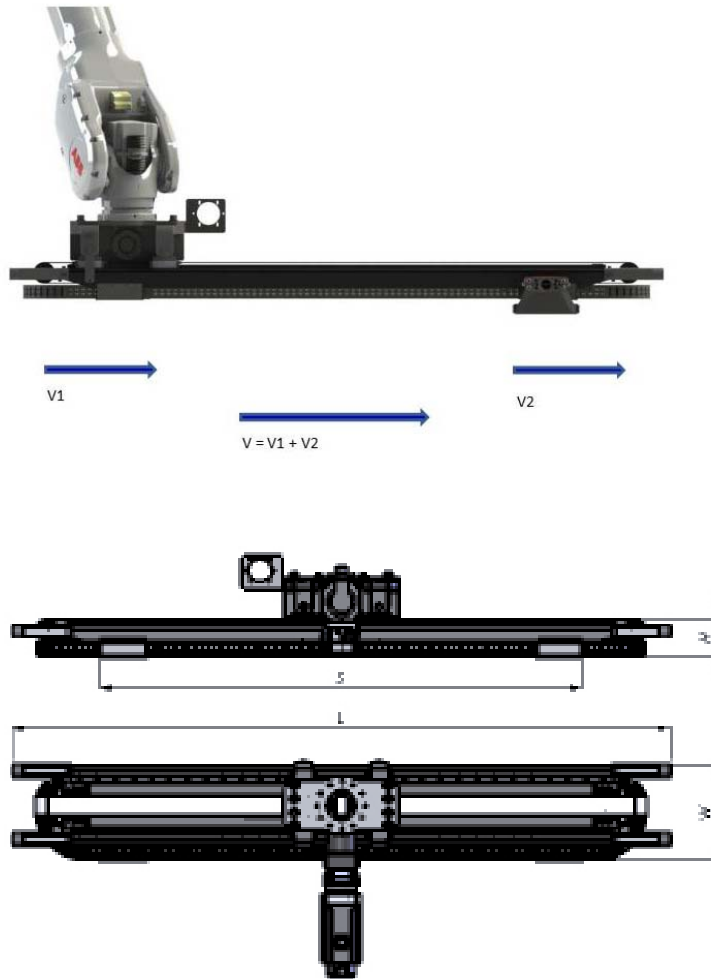
Fastest medium size parts solution



- Handling capacity: 50 Kg
- Reach: 3.10+1.40 m.
- IRB 6660FX complements ABB's fast parts transfer IRB 7600FX
- Integration of the dual action linear 7th axis to IRB 6660, allows transfer of parts along a linear path,
- Eliminates vibration created by conventional 6-axis robot's 180° rotation of part
- Its dynamic model coordinates all seven axes ensuring optimum speed, accuracy and lifetime.

IRB 6660 FX

Linear 7th axis



- Dual action:
 - The main structure moving respect to 6-axis wrist
 - Carrier (mobile wagon), with tool attachment, moving along the main structure
- Minimized height ($H=130$)

IRB 6660 FX

Optimized Carbon Fiber tooling design

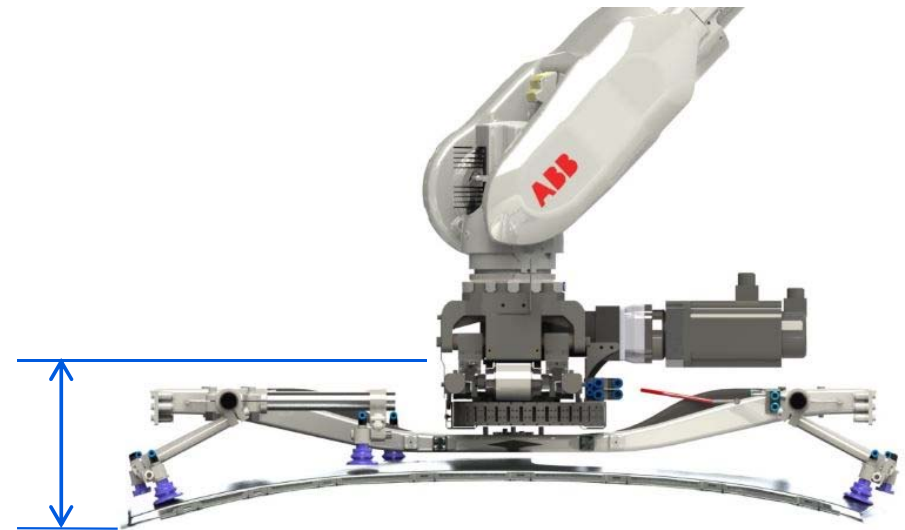
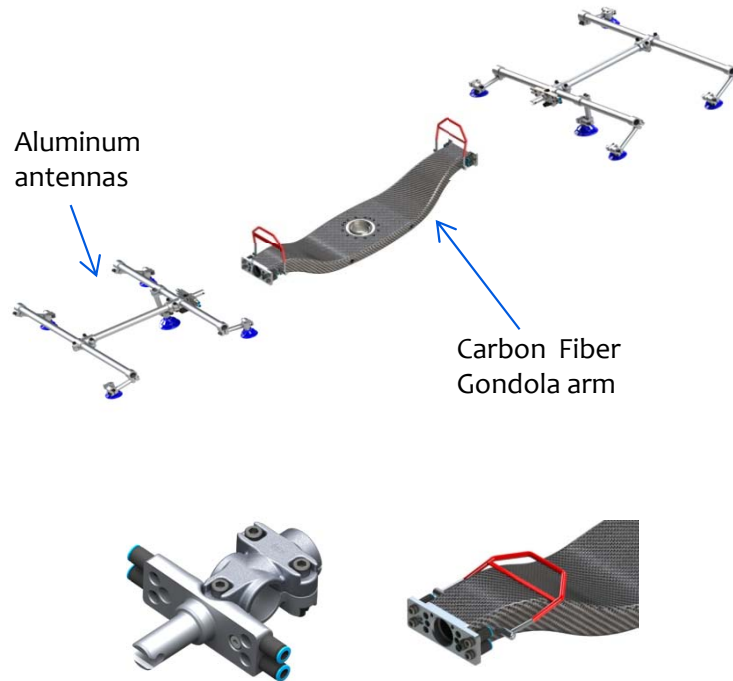


IRB 6660 FX

Optimized Carbon Fiber tooling design

Benefits:

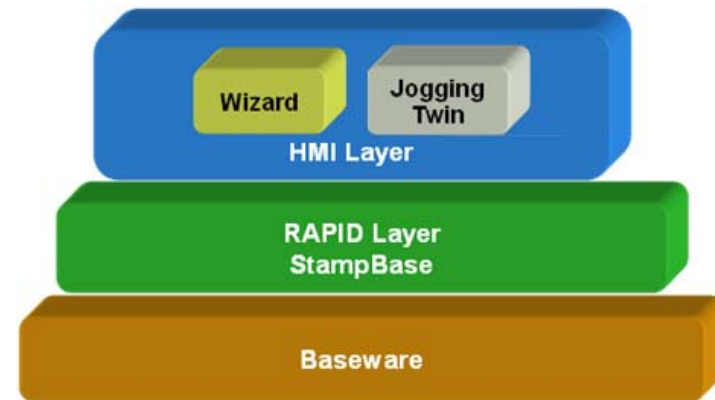
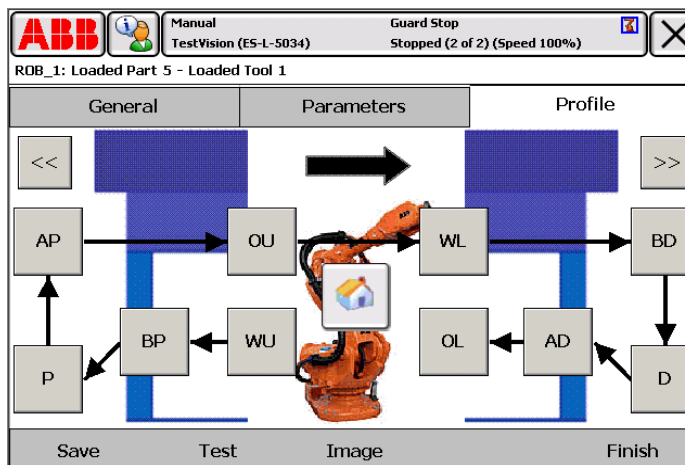
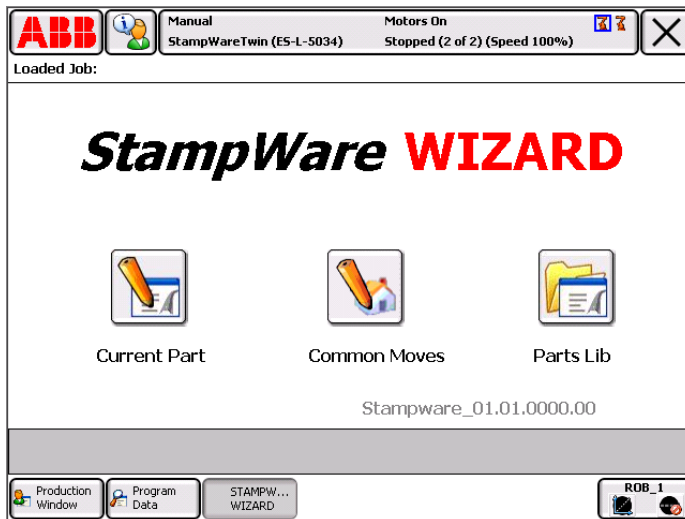
- Optimum stiffness/weight ratio
- Optimized shape design: reduced tooling height to minimize press occupation
- Unified tooling for 6 and 7 axis robots
- Ergonomic - since tooling to be changed is smaller
- Fewer components
- Requires less room for storage



The carbon fiber tooling increases output thanks to its shape design which has been optimized for tool height.

As a result it can be placed into the die at lower press opening

XL High speed automation StampWare



- StampWare controller software designed to shorten learning and setup time for greater productivity
- Modularized program structure program wizard and graphical production window

Power and productivity
for a better world™

