

ABB DMRO Press Automation

Press Automation products Twin Robot Xbar (TRX)

Press Automation ABB approach

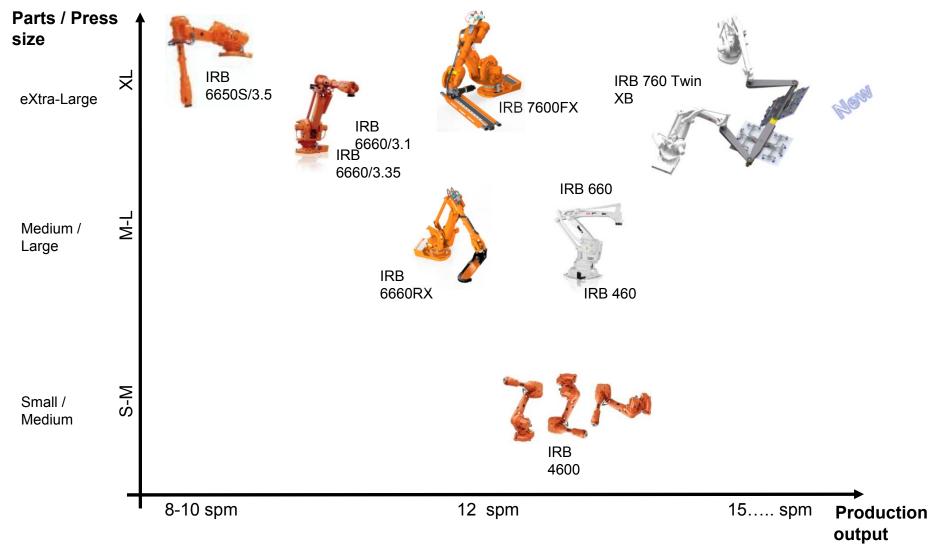




- Press-shop is one of the most capital intensive processes in auto industry
- Increasing output means a higher return over the installed equipment
- Upgrading existing lines (Brownfield's) is also a big focus for ABB

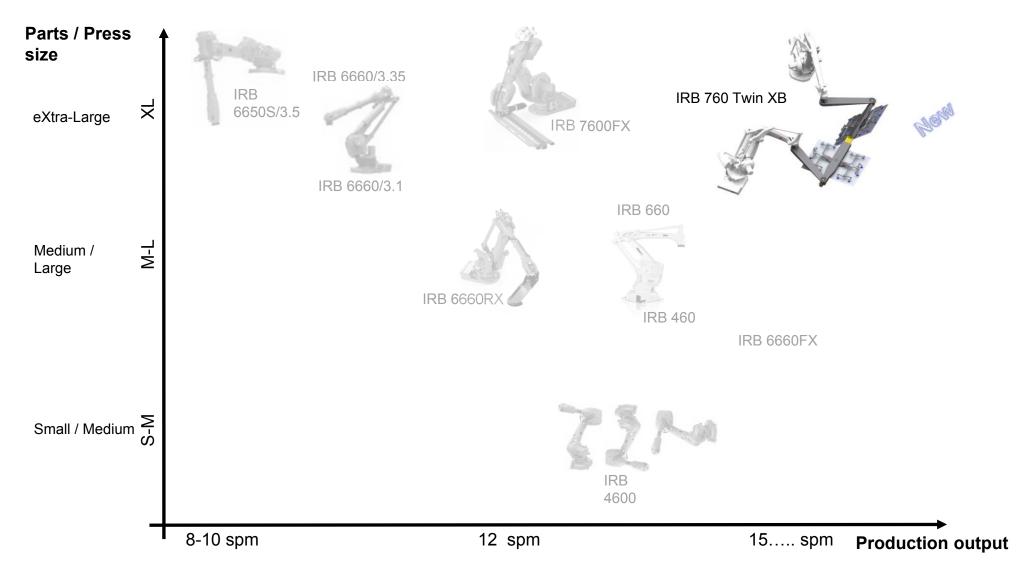


Press automation: Robot solutions map The optimum solution for each customer need



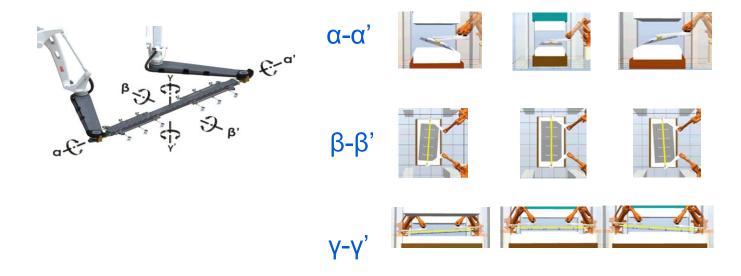


Press automation: Robot solutions map The optimum solution for each customer need





XL High speed automation Twin Robot Xbar – TRX. Crossbar orientation



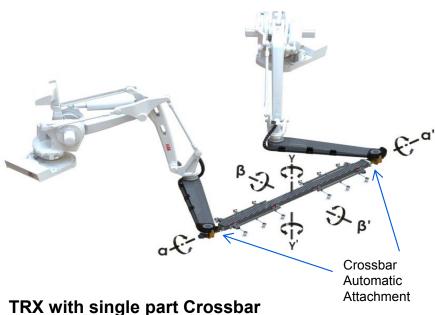
- α - α ' by 2 actuators for the crossbar
- β-β' by positioning of each robot arm
- y-y' by positioning of each robot arm

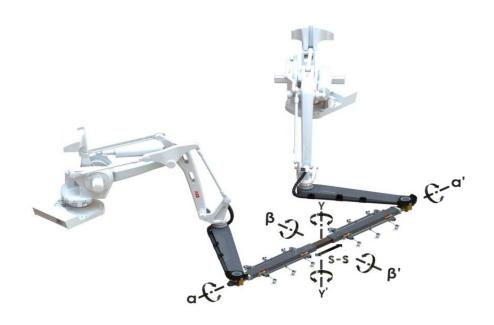


XL High speed automation TRX - Twin Robot Xbar

Enabled for different cross-bar functionalities:

- Single part
- Side shifting for double (multiple) parts
- Side shifting + independent tilting



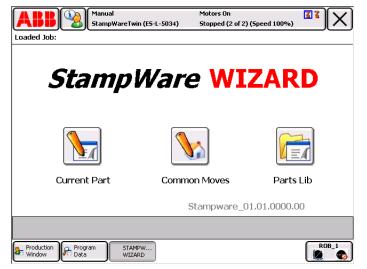


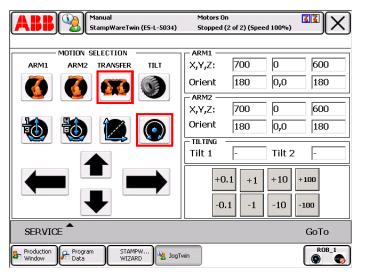
TRX with single part Crossbar

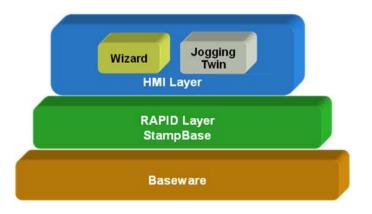


XL High speed automation StampWare specific version for TRX: StampWare Twin









StampWare is a controller software designed to make you more productive by minimizing the learning time and setup time of new production.

The modularized program structure, the **program wizard** and the **graphical production window** - all together decrease the time for training that the operator and robot programmer need.

Running in more than 1000 robots worldwide



XL High speed automation TRX - Twin Robot Xbar: Summary





Top performance with Robotics values:

- Reliability
- Cost efficiency
- Maximum flexibility:
 - No press adaption's required =>
 - Same solution for new and existing lines
 - Enabled for different crossbar lengths

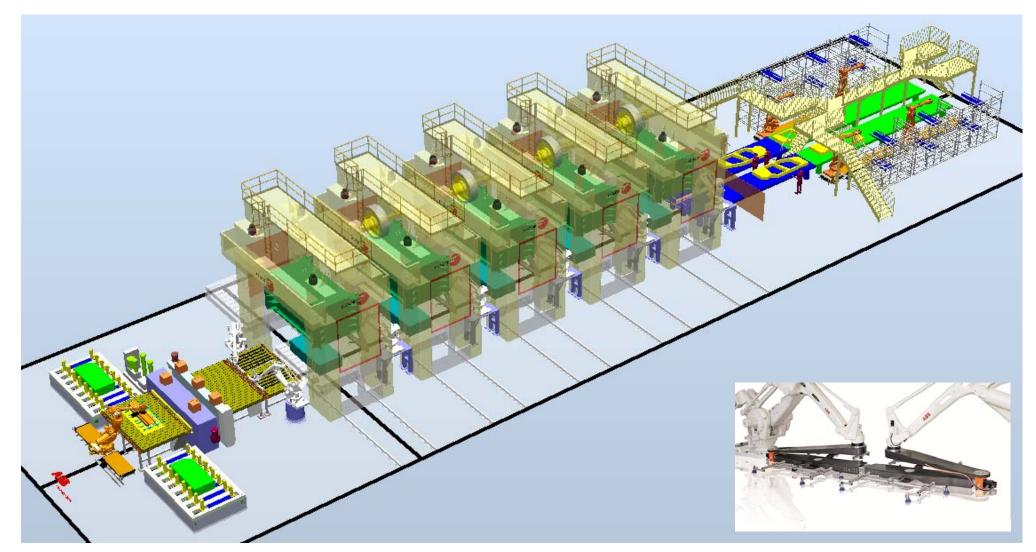
Key features:

- Optimized power distribution efficiency plus the stability of a double subjection
- 10 actuators:
 - 8 Degrees from 2 IRB 760 (4+4)
 - 2 actuators for crossbar tilting
 - ββ', γ-γ' and crossbar side shifting, obtained by IRB 760 arm positions
- Easy to use: StampWare Twin (Programming wizard)
- Enabled for 3 Cross-bar types:
 - Single part
 - Side shifting for double parts
 - Side shifting + independent tilting
- Crossbar change: In bolster or in interpress zone
- One controller for twin robot system (multi-move coordinated)





XL High speed automation line TRX - Twin Robot Xbar







Power and productivity for a better world™

