Klas Bengtsson, March 2014

RobotStudio Picking PowerPac
PickMaster 3
The challenge of creating a picking line

- Without advanced experience, it is difficult to understand how the final result in a multi robot picking line will vary with changes of the inflow of products.

- It can be difficult to convince customers that a multi robot picking line will deliver the desired result.

- With an increasing number of different products and pack styles, the validation and programming time grows rapidly.

- The calculated profit must be very good to balance the risk.
The solution

*RS PowerPac to simulate a picking line controlled by PickMaster3*
Workflow

1. Configure the physical line
2. Add products and formats
3. Define the in feed flow of products
4. Simulate
5. Transfer result to PickMaster3™
Key facts

- Simple and intuitive
- Same functions as in PickMaster 3
- The flow of products can be defined as:
  - Average distribution
  - Own distribution of targets in one frame
  - Recording from a PM3 line can be used as input
- Gripping time given as input
- Virtual tuning
- Pickrate per robots displayed
Key values
Hit rate

A simulation movie is an efficient sales tool
Key values
Improved margins

Optimized efficiency that requires less “safety” margin” and substantially less validation time
Why more picking lines?

"RS Picking PowerPac is a simulation and sales tool that improves the line efficiency while reducing the risks"
How to work with Picking PowerPac
Movie link