ABB Robotics, April 2015

FlexFeeder™
Overview
FlexFeeder
Agenda

- DVP
- Overview
- Key Features
- Key Data
- Communication
- Scope of Supply
- Graphical User Interface (GUI)
- Operation Panel
- Customer Value
Differentiated value proposition

- ABB’s FlexFeeder – the ultimate in versatility for automated production environments. The FlexFeeder module, in combination with ABB’s Integrated Vision, allows you to sort an array of components, ranging from 3 – 30 mm, without having to change the feeder each time a different component is fed into automation system.
Market demand for sorting a wide variety of small parts, especially in 3C industry

Aim to provide a method for generic parts feeding with compactness at a competitive price
FlexFeeder
Key features

- Flexibility in feeding small parts of various size, shape and material
  - Small internal gap design to ensure reliable running
  - Adjustable feeding amount
  - Quick parts unload and changeover
  - Easy to lift with handles
  - Parts emptiness detection
Available in two versions

Key data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Single</th>
<th>Double</th>
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<tbody>
<tr>
<td>Weight</td>
<td>27 kg</td>
<td>40 kg</td>
</tr>
<tr>
<td>Dimension</td>
<td>754x737x125 mm</td>
<td>754x737x230 mm</td>
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<tr>
<td>Illumination area dimension</td>
<td>90x160 mm</td>
<td>200x160 mm</td>
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<tr>
<td>Air pressure (bar)</td>
<td>4-6 bar</td>
<td>4-6 bar</td>
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FlexFeeder Communication

- Work seamlessly with ABB integrated vision
- Support three communication protocols
  - EtherNet/IP
  - DeviceNet
  - Discrete I/O
- Plug & play while IRC5 compact controller configuring with required software option

Robotware options
- 617-1 FlexPendant Interface
- 623-1 Multitasking
- 616-1 PC Interface
FlexFeeder
Scope of supply

- FlexFeeder-Single
- FlexFeeder-Double
- Backlight (option)
- DeviceNet
  EtherNet/IP
  Discrete I/O
- Graphical User Interface
- Product and User manual
FlexFeeder
GUI

- Easy operation
  - Run, Stop
  - Load, Unload
  - One click for cylinder action test

- Programming
  - EIO automatically configure
  - RAPID module pre-setting

- Production
  - Monitor of signals and production status
  - Cycle and cycle time record
FlexFeeder
Operation panel

- Power Switch
- DeviceNet Connector
- Air Supply Inlet
- EtherNet I/P Connector
- 24V Power Supply
FlexFeeder
Key customer values

- Flexibility in feeding small parts of various size, shape and material
- Easy to integrate, easy to use
- Compact footprint
- Quick parts changeover
- Short cycle time
- Improve productivity and cost saving
- Two versions to be chosen
Power and productivity for a better world™