

anyfeed™ SX240

Universal, programmable parts supply systems



- > Innovative, highly flexible feeder technology for all robots
- > Maximum availability thanks to automatic error correction
- > Minimal changeover times when changing products
- > Automatic parts emptying at the touch of a button
- > Minimal footprint– anyfeed replaces several conventional feeders
- > Exceptionally gentle parts handling
- > Standardized communication with all models
- > Simple serving thanks to the use of identical servo-electric drives in all models

Application area

Assembly, Inspection technology, Packing/Counting, Maschine loading

Ideal for parts:



≤ 60mm



≤ 0.5mm



≤ 50 g



5-45 °C



Dry

System requirements: In addition to the selected anyfeed model, the following components are required for a flexible feeding solution: robots with grippers, vision system (we recommend feedWare CX / Cognex In-Sight from flexfactory), lighting, base plate for the construction of all components, robot application for the movement sequence and the data exchange. Robot vision feeder.

anyfeed™ feeder systems for robots

anyfeed flexible bulk parts feeders singulate and deliver bulk parts into the pick up zone of an industrial robot. Part flow and reorientation of parts in the feeder is controlled by feedWare CX - a Cognex In-Sight-based vision solution specifically developed and optimized by flexfactory for flexible part feeding applications. The universal bulk parts feeding solution is in operation with over 18 commercially available robot brands.



feedware™ CX-Software solution

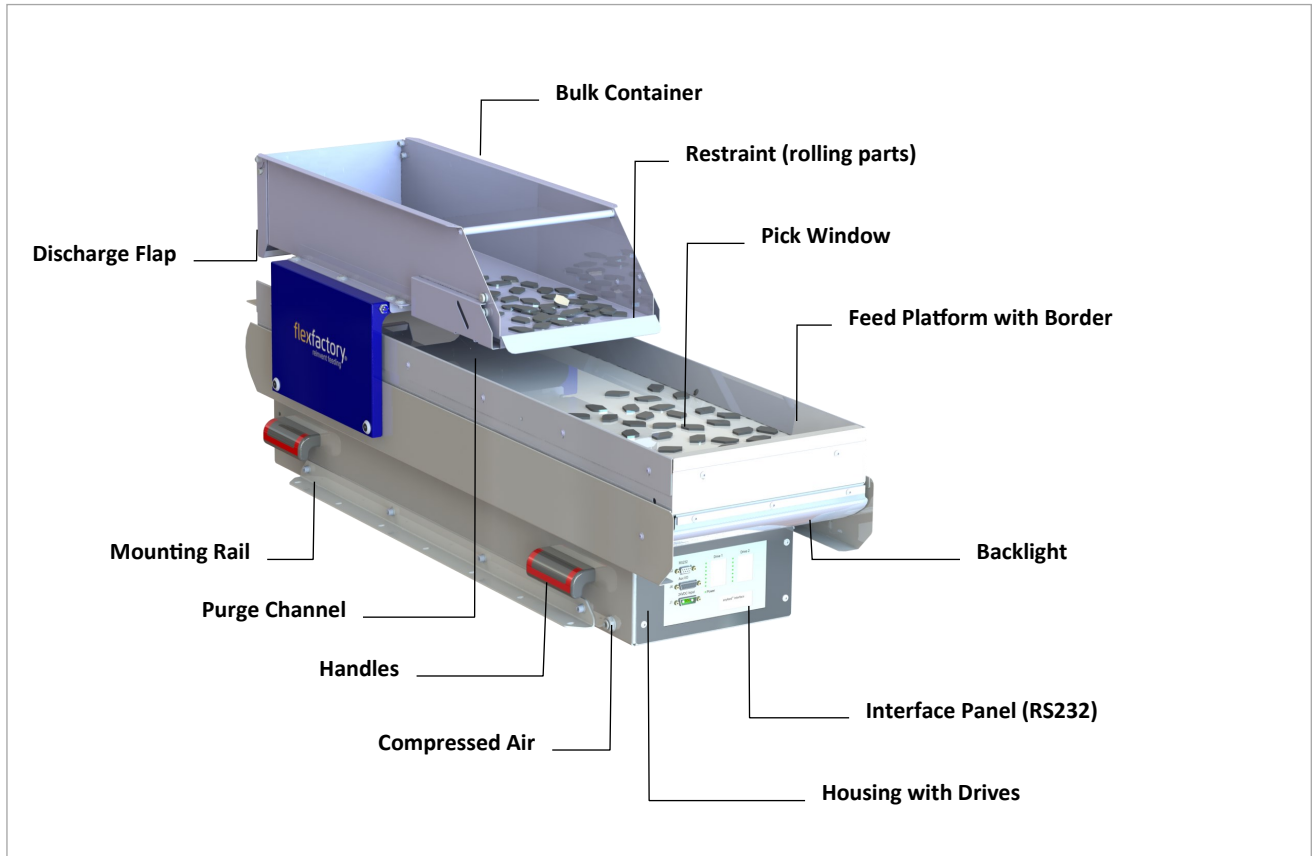
It is the ideal and proven solution for turning any anyfeed model and any robot into a complete parts supply system – in next to no time and with the greatest of ease. The Cognex In-Sight camera installed above the window identifies correctly oriented parts and transfers the picking coordinates to the robot's control system.

feedware CX continuously monitors the parts in the pick window and sends action commands to the anyfeed telling it to make more parts available for the robot. feedware CX is also responsible for teaching the system to handle new parts, parameterizing feed characteristics, calibrating robot-to-vision coordinates, and defining pick-points and clear-grip zones.

flexfactory supplies the full package, including a Cognex In-Sight camera with feedware CX preloaded. The company also provides the appropriate lighting and optics and helps customers get the entire solution up and running.



Part description



Electrical Connections - anyfeed SX240 (IF2011)

| Label | Function | Connec-tingtyp | Pin | Allocation | Cabel |
|-------|-------------|-------------------|-----|---------------|---|
| J1 | Motor Power | D-Sub-M 2+5, Male | A1 | 24VDC in | Nr.1 (red) |
| | | | A2 | GND | Nr.2 (blue) Shield |
| J2 | RS232 | D-Sub 9, Female | 2 | Tx | D-Sub 9, Male - Female |
| J4 | Aux I/O | D-Sub 15, Female | 1 | Trigger out | Connection Cale is not included In the scope of supply |
| | | | 4 | GND | |
| | | | 5 | GND | |
| | | | 6 | 24VDC out | |
| | | | 7 | 24VDC out | |
| | | | 8 | Pick in | |
| | | | 9 | Flash in | |
| | | | 14 | Error Drive 1 | |
| | | | 15 | Error Drive 2 | |



Technical Specifications

| | |
|--------------------------------------|--|
| Capacity Bulk Container | 10 dm ³ |
| Field of Vision (FOV) | 240x320 mm |
| Pick-Up Area | 768 cm ² (24x32 cm) |
| Unevenness Pick-Up Area | 1.0 mm |
| Repeat-precision Feederplatform in z | ± 0.1 mm |
| Max. weight on surface (FOV) | 1500 g |
| Plate level (parts) | 241 mm |
| Border height | 38 mm |
| Light height of Purge Channel | 63.5 mm |
| Power Requirements | 24 V/ 10 A |
| Typical consumption | 100 W (depeding on operating mode) |
| Compressed Air | ≤ 6 bar unlubricated/filtered |
| Eccentricity Feed Surface | ± 12 mm (Maximum stop from initial position) |
| Eccentricity Bulk Container | ± 5 mm |
| Interface | RS232 (DSUB9 Female) |
| Drive | 2 brushless servo dirves 130W |
| Temperature | 5-45 °C |
| Humidity | 95 % non-condensing |
| Weight | 50 kg |

Standard Materials

| | |
|------------------------|-------------|
| Housing with Drives | WN 1.4301 |
| Feeder Platform | WN 1.4301 |
| Border Feeder Platform | WN 1.4301 |
| Bulk Container | WN 1.4301 |
| Feed Surface | POM-C Natur |

| | |
|---|--|
| | <p style="text-align: right;">All dimensions in mm</p> |
| | <p>Item Nr. 900-000-276</p> |
| <p>Description anyfeed™SX240</p> | |