

# Flexible Parts Feeding with the anyfeed SX



The anyfeed SX feeder provides advanced part feeding for a range of part types. Utilizing a sinusoidal motion of the feed surface, part movement (forward and backward) is achieved. Parts orientation can also be changed with a flip function. This enables feeding a wide variety of part types, including part types previously not conducive to automated feeding (well suited for round cylindrical parts).

The embedded controls system provides ease-of-use in deploying the feeder with any robot control system. A universal digital I/O or serial interface makes this feeder versatile and yet simple to implement.

The anyfeed SX is available in three sizes, the SX120, SX160 and SX240.



anyfeed SX



## Features

- ✓ Embedded control system
- ✓ Universal control interface, digital I/O and serial
- ✓ Integrated pre-feeder
- ✓ Multiple feeders per robot system
- ✓ Integrated backlight option
- ✓ Multiple feed surface options (color & surface texture)
- ✓ Utilities: 24V DC (2.0A) and 87 psi filtered dry air

## Benefits

- ✓ Compatible with all industrial robot systems
- ✓ No need for external control peripherals
- ✓ Works well with rolling parts
- ✓ Fast product change over
- ✓ Multiple feeders can present multiple parts for complex assembly applications

Additional benefits include high flexibility for production runs with high mix of parts and short production cycles. The programmable flexibility guarantees the reusability of each assembly cell and decreases total cost of ownership.

# anyfeed SX Specifications

**Throughput** (varies with part type)  
 30-40 parts per minute (typical)  
 55-60 parts per minute (maximum)

**Bulk Hopper Storage Capacity**

SX120                      549 in<sup>3</sup> (9 dm<sup>3</sup>)  
 SX240/SX160            976 in<sup>3</sup> (16 dm<sup>3</sup>)

**Part Material**

Plastics                  Rubber                  Metal  
 Wood                    Glass

Not intended for food products or wet/oily parts.

**Options**

Special Feed Surfaces  
 Pre-feeder  
 Part reject gate  
 Backlight Selections  
     Red LED  
     IR LED

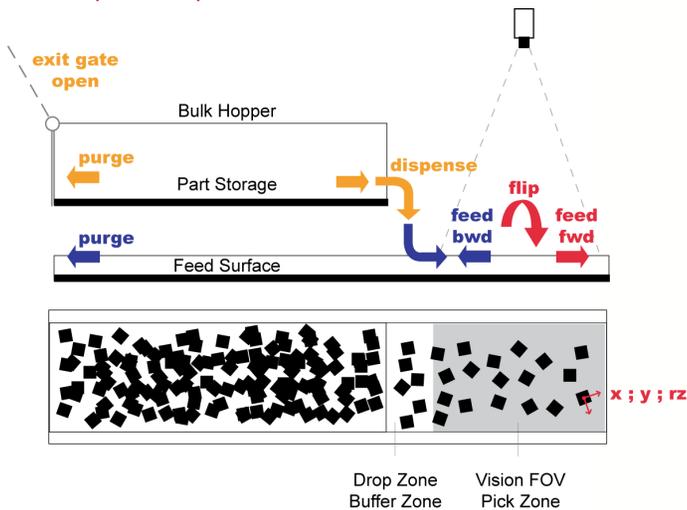
**Feeder Operation**

Bulk parts are placed in part hopper.  
 Parts are dispensed onto the feed-surface as the hopper moves in a programmed sinusoidal motion.

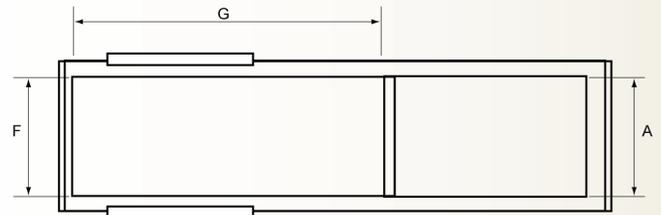
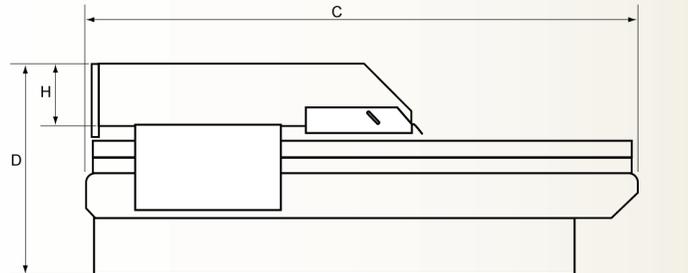
Parts advance forward on the feed surface and are separated as the feed surface moved in a programmed sinusoidal motion.

Parts are flipped as the front section of the feed-surface vibrates vertically at programmed amplitude

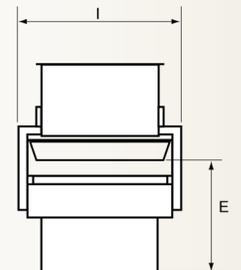
Machine vision is used to select parts in the desired orientation. The remaining parts are flipped and separated until all parts are picked.



**Dimensions (mm)**



|   | SX120 | SX160 | SX240 |
|---|-------|-------|-------|
| A | 120   | 160   | 240   |
| B | 160   | 213   | 320   |
| C | 1,115 | 1,115 | 1,115 |
| D | 394   | 434   | 434   |
| E | 238   | 238   | 238   |
| F | 158   | 198   | 238   |
| G | 825   | 780   | 650   |
| H | 90    | 130   | 130   |
| I | 252   | 292   | 332   |



Specifications subject to change without notice