

# ***FlexFeeder***

*separating and supplying preforms*



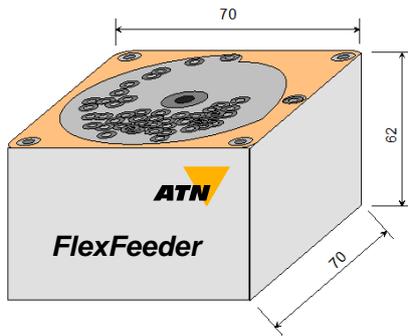
- *simple and compact*
- *flexible for preforms (solder rings) with a diameter of 2.5 to 3.2 mm*
- *small invest and low operating cost*
- *no wear*
- *easy integration*

## ATN-FlexFeeder: Description

The assembly of preforms (washer of solder) is a reliable method to perform on-the solder when soldering robot automate. The advantages are obvious.

- The amount of solder is precisely defined:  
thus highest precision and quality
- The form corresponds to the subsequent solder joint,  
thus the soldering process is very fast
- The flux is distributed optimally:  
thus no splashes
- The processes supplying solder and soldering are separated, which ensures a high process reliability and simultaneous soldering multiple soldering possible

### Dimensions and technical data



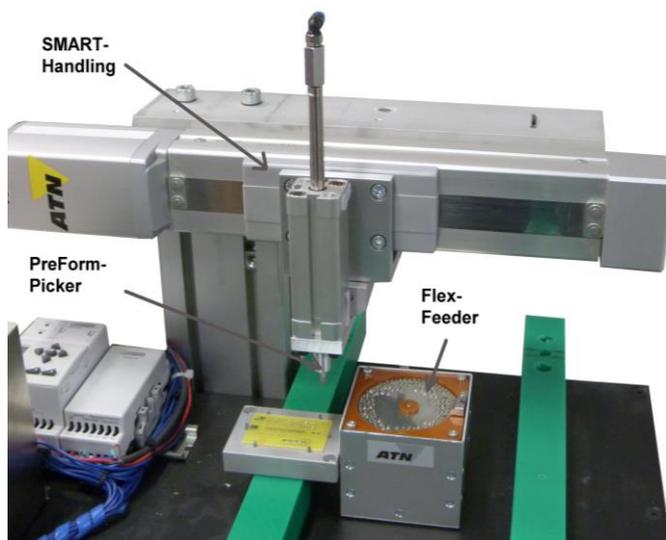
The ATN-FlexFeeder is a robust compact device for separating and providing preforms from the bulk material. The Flex feeder separates the preforms through a special rotation sequence and return them in a defined position and orientation so that they can be removed selectively. Best accordingly is the small design of only 70x70x60mm. The S variant is suitable for preforms with a diameter of 2.5-3.2 mm (other sizes on request). Thus, the ATN-FlexFeeder is much more flexible than conventional vibratory feeder. The Flex feeder can hold approximately 1,000 preforms. The cycle time of 1s

dimensions Feeder	70x70x62 mm
dimensions Controller	84x100x58 mm
cycle time	1s/part
interface	digital IO
weight	600 g
power supply	24V (50W)

suitable for preforms with

Diameter	2,5-3,2 mm
thickness	0,5-1,0 mm, adjustable
weight	20-30 mg

### Integration



ATN offers the components to the assembly of preforms easy, fast, reliably and to realize cost-effective.

- FlexFeeder for separation and supply
- PreFormPicker to grip
- SMART-Handling for positioning

Gripping by means of a special suction pipette, the PreFormPicker. It is held in a universal holder. The vacuum is generated with an ejector nozzle and monitored by a vacuum sensor tuned.

The SMART-handling is a simple and quick handling device for integration into complex assembly machines.

The X-axis is scalable from 100mm to 500mm. In the Y direction, a pneumatic stroke facilitates the fine setting for pick and place position. Optionally, a free programmable 30mm Y-axis is available.

### Other Components

In addition, the Flex Feeder is suitable for almost all geometrically defined components of 0,5x0,5 mm up to 10x10 mm. Typical examples are nuts, bolts, washers, rivets, o-rings, gears, SMD components. For other components, the separating unit is adapted. The separation unit is available in three sizes

- BG S: 70x70 mm
- BG M: 110x120 mm
- BG L: 150x150 mm

