

Product



No. 1 Position

The Revolving Unit reduces travel distances and minimizes cycle times by utilizing the Collect & Place principle.

Product Features

Unique Selling Points:

- ü "Collect & Place" applications are easily achieved.
- ü Can be fitted to the ERS 135, ERS 170 or RST-D 087 as a standard
- ü Can be optionally fitted onto a robot or rotary unit which has a center bore
- ü Two versions available for either 4 or 6 grippers
- ü Pneumatic and electric feed-through
- ü The gripper which is in the working position can be operated independently from the other grippers.
- ü The grippers which are not in the working position remain in the gripped state.
- ü All of the grippers can always be monitored via sensors.
- ü In an E-stop situation it's easy to remove all of the workpieces from all of the grippers via an additional air connection.

Further product features:

- ü In applications where space is an issue, it may be possible to replace a quick change gripper system with an RVK.

Availability

- ü beginning of 2014

Market and Competitors

Key Competitors:

There are no known standard products on the market. So far only special, one-off solutions have been seen.

Advantages towards competitors:

- ü Cycle times can be reduced thanks to the "Collect & Place" principle which is now easily possible.
- ü Using the same RVK and the proper adapter plates, it's possible to have internal or external gripping.
- ü All of the grippers can always be monitored making the application process more reliable.

Cost Efficiency /Customer Benefits

Customer benefits:

- ü Pick & Place systems have a higher productivity thanks to the Collect & Place principle
- ü Compact machine and system design is possible due the compact design of the RVK
- ü Integrated valve technology for operating the grippers leads to fewer valves required for the complete machine
- ü Integrated pneumatic and electric feed-throughs to operate the grippers and for the sensors to monitor the state of the grippers

Questions about the product? Your contact person Gripping Systems is B. Painting (+49-7133-103-2433)

Technical Data/Functions

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- ü Size: 100
- ü Mass: 1,9... 2,0 kg; without RST-D, ERS or grippers
- ü Actuation time: 0,1 s
- ü Operating pressure: 4 ...8 bar
- ü Max. Rotations per Minute: 240 [1/min]
- ü Number of electric feed-throughs: 14

Complimentary Products:

- ü RST-D 087
- ü ERS 135 and ERS 170
- ü MPG-plus 32, 40
- ü PGN-plus 40, 50, 64 and grippers with a similar bolt pattern: PRG, PWG-plus, JGP

Industries and Application

Industries:

- ü Assembly Automation
- ü Electronics
- ü Plastic
- ü Automotive
- ü Watch Industry
- ü Pharmacy
- ü Machine Building
- ü Automation
- ü Packaging

Additional Information

Essentially, the RVK is designed so that it can work with any type of rotary module as long as the rotary module has the following features:

- ü A fixed inner geometry for torque support as well as to supply 4 air connections.
- ü A rotary drive with a torque of at least 2,5 Nm and which can index the proper amount for the RVK which is to be used.

Application Example:

Via the "Collect & Place" principle the RVK allows for travel distances as well as cycle times to be reduced. With a traditional Pick & Place system, every workpiece has to be picked, then transported and placed before the system can return to pick up the next workpiece.

With the RVK, however, it is possible to first pick up to 6 workpieces before transporting them. The workpieces could be all the same or they could be all different. Furthermore, with the RVK it's possible to grip the pieces either internally or externally. Finally, after the workpieces are transported, it would be possible to place them either all in a single tray or in various trays.

Cross Section



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