

# TOOL CHANGERS

## SERIES HWR

1

### ► PRODUCT ADVANTAGES



#### ► **Change in seconds**

Reduce your start up costs and minimise downtimes by changing your tool in seconds

#### ► **Integrated air transfer system**

For supplying pneumatic actuators. Additional media can be transmitted using optional energy elements.

#### ► **Replacing with no tools required**

The locking lever fully integrated into the housing makes it possible to replace tools without any additional tools

### ► THE BEST PRODUCT FOR YOUR APPLICATION



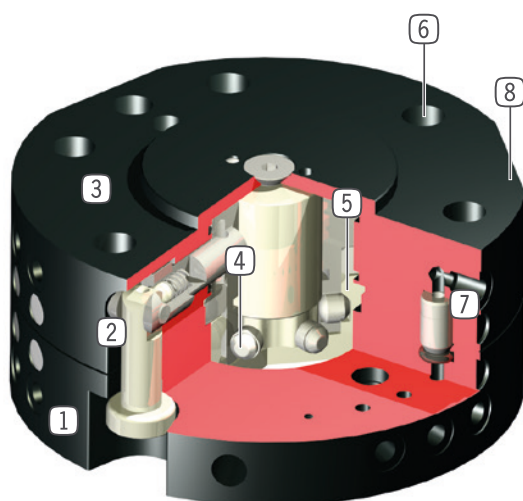
#### ► **Our products welcome the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities.

Find the best product for your specific use:

[www.zimmer-group.com](http://www.zimmer-group.com)

## ► BENEFITS IN DETAIL



- ① **Loose part**  
- for tool side assembly
- ② **Locking lever**  
- with spring supported snap in function
- ③ **Fix part**  
- for robot side assembly
- ④ **Locking bolt**  
- adapted to the clamping sleeve
- ⑤ **Locking stroke**  
- re-adjustable via locking sleeve
- ⑥ **Robot flange**  
- partial mounting circle in accordance with EN ISO 9409-1
- ⑦ **Integrated air feed-through**  
- air / vacuum transfer from fix to loose part, hoseless control possible
- ⑧ **Mounting for energy element**

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



### ► Technical Information

All information just a click away at: [www.zimmer-group.com](http://www.zimmer-group.com)

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



# TOOL CHANGERS

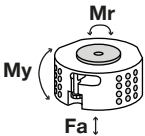
## INSTALLATION SIZE HWR80

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



|         |      |
|---------|------|
| Mr [Nm] | 300  |
| My [Nm] | 300  |
| Fa [N]  | 1500 |

### ▶ INCLUDED IN DELIVERY



O-Ring

COR0025100

### ▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style  
GVM5



Angled Fittings - Quick Connect Style  
WVM5



Energy Elements see page 26

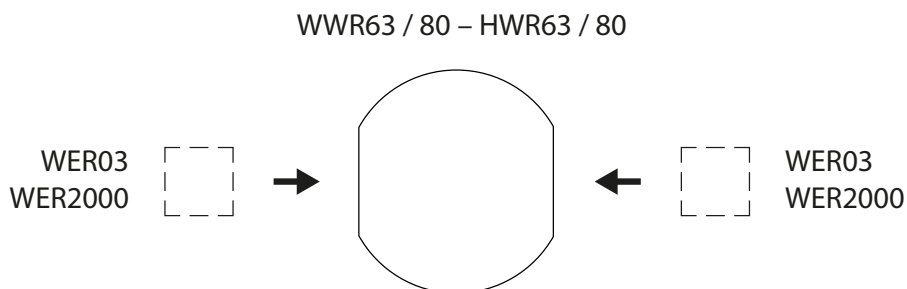


# ENERGY ELEMENTS FOR TOOL CHANGER

## SIZES HWR63 / HWR80

1

### PRODUCT SPECIFICATIONS



### FLUIDIC

#### Technical Data

| Order no.                 | WER2000FPL06-00 | WER2000LPL06-00 | WER2000FPL02-06 | WER2000LPL02-06 | WER2000FPL01-03 | WER2000LPL01-03 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| compatible with           | Fix part        | Loose part      | Fix part        | Loose part      | Fix part        | Loose part      |
| Fixing thread             | M5              | M5              | G1/8"           | G1/8"           | G1/4"           | G1/4"           |
| Number of fluid couplings | 6               | 6               | 2               | 2               | 1               | 1               |
| Operating pressure [bar]  | -0.6 ... 10     | -0.6 ... 10     | -0.6 ... 10     | -0.6 ... 10     | -0.6 ... 10     | -0.6 ... 10     |
| Weight [kg]               | 0.05            | 0.05            | 0.06            | 0.07            | 0.06            | 0.06            |

### ELECTRICAL

#### Technical Data

| Order no.                    | WER2000FSI32-05 | WER2000LSI32-05 | WER03FF04 | WER03LF04  | WER03FF09-B    | WER03LF09-B    |
|------------------------------|-----------------|-----------------|-----------|------------|----------------|----------------|
| compatible with              | Fix part        | Loose part      | Fix part  | Loose part | Fix part       | Loose part     |
| Connection type              | FST             | FST             | FST       | FST        | Spring contact | Spring contact |
| Round Connector [Straight] * | -               | -               | -         | -          | -              | -              |
| Round Connector [Angle] *    | -               | -               | -         | -          | -              | -              |
| Fixing thread                | -               | -               | -         | -          | -              | -              |
| No. of contacts              | 32              | 32              | 4         | 4          | 9              | 9              |
| Nominal current [A]          | 3               | 3               | 3         | 3          | 3              | 3              |
| Supply voltage [V AC]        | 60              | 60              | 60        | 60         | 60             | 60             |
| Supply voltage [V DC] **     | 75              | 75              | 75        | 75         | 75             | 75             |
| Weight [kg]                  | 0.04            | 0.04            | 0.06      | 0.06       | 0.06           | 0.06           |
| Connection type              | Customizable    | Customizable    | Male      | Socket     | Plug / SUB-D   | Socket / SUB-D |

\* als Zubehör erhältlich see page 63

\*\* Specifications for on-site grounding, 60V without grounding

# PLUG-IN CONNECTOR FOR ENERGY ELEMENTS

## SUITABLE FOR WER201 / WER02 / WER03 / WER3000

### ► PLUG-IN CONNECTOR FOR ENERGY ELEMENTS WER201 / WER02 / WER03

| Order no.               | ► Technical Data |          |          |        |           |           |           |           |
|-------------------------|------------------|----------|----------|--------|-----------|-----------|-----------|-----------|
|                         | KAG500B4         | KAW500B4 | B8-G-4   | B8-W-4 | KAG500S4  | KAW500S4  | S8-G-4    | S8-W-4    |
| Fixing thread           | M8               | M8       | M8       | M8     | M8        | M8        | M8        | M8        |
| No. of contacts         | 4                | 4        | 4        | 4      | 4         | 4         | 4         | 4         |
| Cable length [m]        | 5                | 5        | -        | -      | 5         | 5         | -         | -         |
| Cable-Ø [mm]            | 4.3              | 4.3      | -        | -      | 4.3       | 4.3       | -         | -         |
| Cable sheath material   | PUR              | PUR      | -        | -      | PUR       | PUR       | -         | -         |
| Bend radius             | 10xØ             | 10xØ     | -        | -      | 10xØ      | 10xØ      | -         | -         |
| Protection to IEC 60529 | IP67             | IP67     | IP67     | IP67   | IP67      | IP67      | IP67      | IP67      |
| Connection type         | Female           | Female   | Female   | Female | Connector | Connector | Connector | Connector |
| Version [Type]          | Straight         | Angle    | Straight | Angle  | Straight  | Angle     | Straight  | Angle     |

### ► ROUND PLUG FOR WER3000

| Order no.               | ► Technical Data                                                                    |                                                                                     |                                                                                      |                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         | RSTVLM23G06B-B                                                                      | RSTVLM23W06B-B                                                                      | RSTVLM23G06S-B                                                                       | RSTVLM23W06S-B                                                                        |
| Fixing thread           | M23                                                                                 | M23                                                                                 | M23                                                                                  | M23                                                                                   |
| No. of contacts         | 6                                                                                   | 6                                                                                   | 6                                                                                    | 6                                                                                     |
| Protection to IEC 60529 | IP67                                                                                | IP67                                                                                | IP67                                                                                 | IP67                                                                                  |
| Connection type         | Socket                                                                              | Socket                                                                              | Male                                                                                 | Male                                                                                  |
|                         |  |  |  |  |

| Order no.               | ► Technical Data                                                                    |                                                                                     |                                                                                      |                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         | RSTVLM23G08B-B                                                                      | RSTVLM23W08B-B                                                                      | RSTVLM23G08S-B                                                                       | RSTVLM23W08S-B                                                                        |
| Fixing thread           | M23                                                                                 | M23                                                                                 | M23                                                                                  | M23                                                                                   |
| No. of contacts         | 8                                                                                   | 8                                                                                   | 8                                                                                    | 8                                                                                     |
| Protection to IEC 60529 | IP67                                                                                | IP67                                                                                | IP67                                                                                 | IP67                                                                                  |
| Connection type         | Socket                                                                              | Socket                                                                              | Male                                                                                 | Male                                                                                  |
|                         |  |  |  |  |

| Order no.               | ► Technical Data                                                                    |                                                                                     |                                                                                      |                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         | RSTVSM23G12B-B                                                                      | RSTVSM23W12B-B                                                                      | RSTVSM23G12S-B                                                                       | RSTVSM23W12S-B                                                                        |
| Fixing thread           | M23                                                                                 | M23                                                                                 | M23                                                                                  | M23                                                                                   |
| No. of contacts         | 12                                                                                  | 12                                                                                  | 12                                                                                   | 12                                                                                    |
| Protection to IEC 60529 | IP67                                                                                | IP67                                                                                | IP67                                                                                 | IP67                                                                                  |
| Connection type         | Socket                                                                              | Socket                                                                              | Male                                                                                 | Male                                                                                  |
|                         |  |  |  |  |

| Order no.               | ► Technical Data                                                                    |                                                                                     |                                                                                      |                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         | RSTVSM23G19B-B                                                                      | RSTVSM23W19B-B                                                                      | RSTVSM23G19S-B                                                                       | RSTVSM23W19S-B                                                                        |
| Fixing thread           | M23                                                                                 | M23                                                                                 | M23                                                                                  | M23                                                                                   |
| No. of contacts         | 19                                                                                  | 19                                                                                  | 19                                                                                   | 19                                                                                    |
| Protection to IEC 60529 | IP67                                                                                | IP67                                                                                | IP67                                                                                 | IP67                                                                                  |
| Connection type         | Socket                                                                              | Socket                                                                              | Male                                                                                 | Male                                                                                  |
|                         |  |  |  |  |