

# ROTATORS

Rotators from PALFINGER impress with their high performance and durability combined with a compact design. Combined with the crane attachments offered by PALFINGER, you receive a perfectly coordinated total solution - optimum safety and maximum efficiency.

The applied "gerotor" principle makes it possible to build very compact and effective rotators that impress with their precise start and stopping behavior.

This prevents, for example, a rotation of the grapple when digging or makes a counter-control when manipulating long goods unnecessary.



## PRODUCT FEATURES

- Precise start and stop behavior (without countersteering)
- Payloads from 3 t up to 10 t
- Integrated pressure relief valves to prevent overloading
- High torque at low speed for precise positioning of loads and crane tools
- Two swivel ball bearings for safe absorption of compressive, tensile and bending loads
- Forged, one-piece flange shaft
- endless rotary motor with integrated oil passage

**ECTC**  
EFFICIENT CRANE TOOL COUPLING

# CRANE CONNECTION VARIANTS

In order to make it easier for you to choose the connection between crane and tool, we have put together various connection packages. You can simply select these with your additional device.

For the operation of an additional device

## FLANGE ROTATOR PACKAGE FLANGE

The package consists of:

- Flange rotator PZR450GF, payload 4500 kg, torque 850 Nm, bending moment 3000 Nm
- Upper suspension according to the crane version
- Hose protection to prevent damage of the hydraulic connections
- Connecting hoses to the crane incl. screw couplings



Ideally suited for the operation of several additional devices  
**SHAFT ROTATOR PACKAGE SHAFT**

The use of a shaft rotator makes it easy to switch between different accessories such as crane fork, brick stack grapples or clamp shell buckets.

The package consists of:

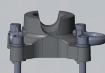
- Shaft rotator PZR450G-68, shaft diameter 68 mm, payload 4500 kg, torque 850 Nm, bending moment 3000 Nm
- Upper suspension according to the crane version
- Hose protection to prevent damage of the hydraulic connections
- Connecting hoses to the crane incl. screw couplings



## PRE-SHAFT

Preparation for shaft rotator

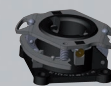
Mounted on the attachment, allows operation with a shaft rotator and ensures easy switching between different attachments. If the crane is already equipped with a rotator, the attachment can also be equipped only with the preparation.



## QUICK-KIT

Quick change device (load 4000 kg)

For an even more efficient switching between different tools, a quick-change device is also available to the shaft rotator. The mechanical coupling and closing is effected by the rotary motion of the rotator. To disconnect, the operator only has to manually open the locking device of the quick-change system and operate the rotary motor. You can change easily and fast between e. g. grapple and brick stack grapples. If the rotator on the crane is already equipped with a quick-change system, the attachment can only be equipped with PRE-QUICK preparation.



## SHAFT-HOOK

Load hook  
Payload 4500 kg

Rigid load hook. The perfect tool for positioning all your loads.



## QUICK-HOOK

Load hook  
Payload 4000 kg

Rigid load hook. The perfect tool for positioning all your loads.



**more efficient, easier, safer**  
exactly these characteristics distinguish the new fully hydraulic Tool changer.  
Get in touch with us to equip your cranetool with the ECTC.

## YOUR ADVANTAGES

- simple and safe change without manual activity by the operator
- Fully hydraulic tool change within a few seconds
- compact and robust construction
- Convenient change between various crane tools

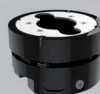


## PZZR-ECTC11

Rotator  
Changeover valve  
Quick change top  
Hose protection

## PZZR-ECTC02

Quick change lower part (for hydraulic attachments)



## PZZR-ECTC04

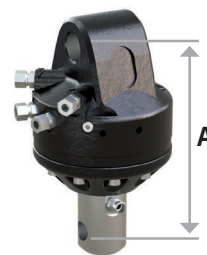
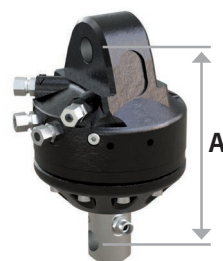
Quick change lower part (for mechanical attachments)

## PZZR-ECTC03

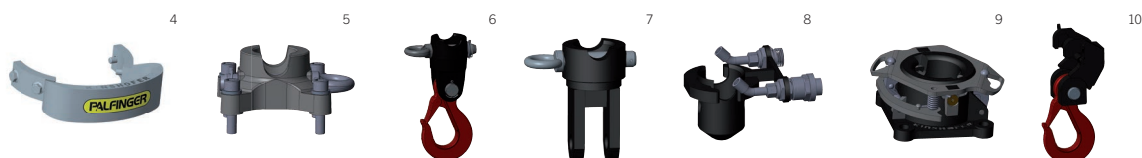
Quick change lower part with load hook



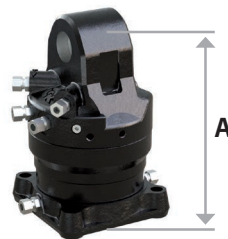
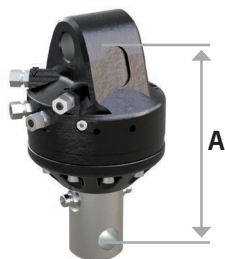
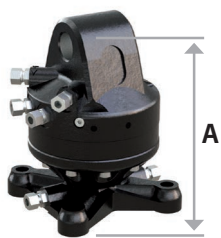
# ROTATORS COMBINATIONS



| OPTION               |                                         | DESCRIPTION                                                                                                                                                                  | CODE                     | 3 t                                                                  | 4.5 t                                                                                        |
|----------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                      |                                         |                                                                                                                                                                              |                          | PZR300G                                                              | PZR450G-68                                                                                   |
| Basic data           |                                         | Connection                                                                                                                                                                   |                          | Shaft Ø 49,5 mm                                                      | Shaft Ø 68 mm*                                                                               |
|                      |                                         | Working pressure max. [bar]                                                                                                                                                  |                          | 370                                                                  | 370                                                                                          |
|                      |                                         | Overpressure protection                                                                                                                                                      |                          | ●                                                                    | ●                                                                                            |
|                      |                                         | Recommended rate of flow [l/min]                                                                                                                                             |                          | 25 – 40                                                              | 25 – 40                                                                                      |
|                      |                                         | Torque [Nm]                                                                                                                                                                  |                          | 850                                                                  | 850                                                                                          |
|                      |                                         | Bending moment [Nm]                                                                                                                                                          |                          | 1750                                                                 | 3000                                                                                         |
|                      |                                         | Installation height A [mm]                                                                                                                                                   |                          | 229                                                                  | 242                                                                                          |
|                      |                                         | Weight [kg]                                                                                                                                                                  |                          | 24                                                                   | 26                                                                                           |
|                      | Upper suspension                        |                                                                                                                                                                              | H25<br>H30<br>H43        | depending on crane<br><br>UL167 (B 170 mm)<br>UL168 (B 170 mm)<br>-- | depending on crane<br><br>--<br>UL045 (B 263 mm)<br>UL045K (B 173 mm)<br>UL045-42 (B 253 mm) |
|                      |                                         |                                                                                                                                                                              | P30<br>P43               | --<br>--                                                             | KLG060-BA (B 150 mm)<br>KLG062-BA (B 150 mm)                                                 |
| Additional equipment | Connection hoses                        |                                                                                                                                                                              |                          |                                                                      |                                                                                              |
|                      |                                         | Crane to rotator (2 pcs.) - length 900 mm<br>Crane to rotator (4 pcs.) - length 900 mm<br>Crane to rotator (4 pcs.) - length 1200 mm<br>Rotator to additional device (2 pcs) |                          | BL462-R<br>BL462<br>BL513<br>BL463                                   | BL462-R<br>BL462<br>BL513<br>BL463                                                           |
|                      | Hydraulic plug-in couplings             |                                                                                                                                                                              |                          |                                                                      |                                                                                              |
|                      |                                         | Complete kit<br>Mobile parts (2 pcs.)<br>Fixed part (2 pcs.)                                                                                                                 | 2RO-PK<br>2RO-L<br>2RO-R | BL981-PK<br>BL981-L<br>BL981-F                                       | BL981-PK<br>BL981-L<br>BL981-F                                                               |
|                      | Hose protection <sup>4</sup>            |                                                                                                                                                                              |                          | --                                                                   | PZZR450S                                                                                     |
|                      | Connecting piece <sup>5</sup>           | PRE-SHAFT                                                                                                                                                                    |                          | --                                                                   | PZZR450R-68                                                                                  |
|                      | Load hook <sup>6</sup>                  | SHAFT-HOOK                                                                                                                                                                   |                          | --                                                                   | PZZR450LH-68                                                                                 |
|                      | Rigid link <sup>7</sup>                 | SHAFT-LINK                                                                                                                                                                   |                          | --                                                                   | PZZR450-A                                                                                    |
|                      | Quick changer - package                 | QUICK-KIT                                                                                                                                                                    |                          | --                                                                   | PZZR450SV-PK                                                                                 |
|                      | Quick changer - upper part <sup>8</sup> | SHAFT-QUICK                                                                                                                                                                  |                          | --                                                                   | PZZR450SV-OT                                                                                 |
|                      | Quick changer - lower part <sup>9</sup> | PRE-QUICK                                                                                                                                                                    |                          | --                                                                   | PZZR450SV-UT                                                                                 |
|                      | Quick changer - hook <sup>10</sup>      | QUICK-HOOK                                                                                                                                                                   |                          | --                                                                   | PZZR450-A/LH                                                                                 |



● Standard ○ Optional -- Not available \* further diameters available on request



| t                                                                  | 6 t                                                                |                                                                     | 10 t                                                                 |
|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| PZR450GF                                                           | PZR601G                                                            | PZR601GF                                                            | PZR1000GF                                                            |
| Flange □ 140 mm<br>370<br>●<br>25 – 40<br>850<br>3000<br>220<br>26 | Shaft Ø 68 mm<br>370<br>●<br>25 – 40<br>1000<br>4500<br>286<br>32  | Flange □ 140 mm<br>370<br>●<br>25 – 40<br>1000<br>8500<br>254<br>34 | Flange □ 140 mm<br>370<br>●<br>25 – 40<br>2000<br>12000<br>313<br>65 |
| depending on crane                                                 | depending on crane                                                 | depending on crane                                                  | depending on crane                                                   |
| --<br>UL045 (B 263 mm)<br>UL045K (B 173 mm)<br>UL045-42 (B 253 mm) | --<br>UL135 (B 278 mm)<br>UL135K (B 245 mm)<br>UL135-42 (B 268 mm) | --<br>UL135 (B 278 mm)<br>UL135K (B 245 mm)<br>UL135-42 (B 268 mm)  | --<br>--<br>UL153-42 (B 370 mm)                                      |
| KLG060-BA (B 150 mm)<br>KLG062-BA (B 150 mm)                       | KLG063-BA (B 150 mm)<br>KLG064-BA (B 150 mm)                       | KLG063-BA (B 150 mm)<br>KLG064-BA (B 150 mm)                        | --<br>--                                                             |
| --<br>BL462<br>BL513<br>BL463                                      | BL462-R<br>BL462<br>BL513<br>BL463                                 | --<br>BL462<br>BL513<br>BL463                                       | --<br>BL462<br>BL513<br>BL463                                        |
|                                                                    | BL9 81-PK<br>BL981-L<br>BL981-F                                    |                                                                     |                                                                      |
| PZZR450S                                                           | PZZR601S                                                           | PZZR601S                                                            | --                                                                   |
| --                                                                 | PZZR601R-GA                                                        | --                                                                  | --                                                                   |
| --                                                                 | PZZR601LH-W                                                        | --                                                                  | --                                                                   |
| --                                                                 | --                                                                 | --                                                                  | --                                                                   |
| --                                                                 | PZZR601SV-PK                                                       | --                                                                  | --                                                                   |
| --                                                                 | PZZR601SV-OT                                                       | --                                                                  | --                                                                   |
| --                                                                 | PZZR601SV-UT                                                       | --                                                                  | --                                                                   |
| --                                                                 | PZZR601-A/LH                                                       | --                                                                  | --                                                                   |