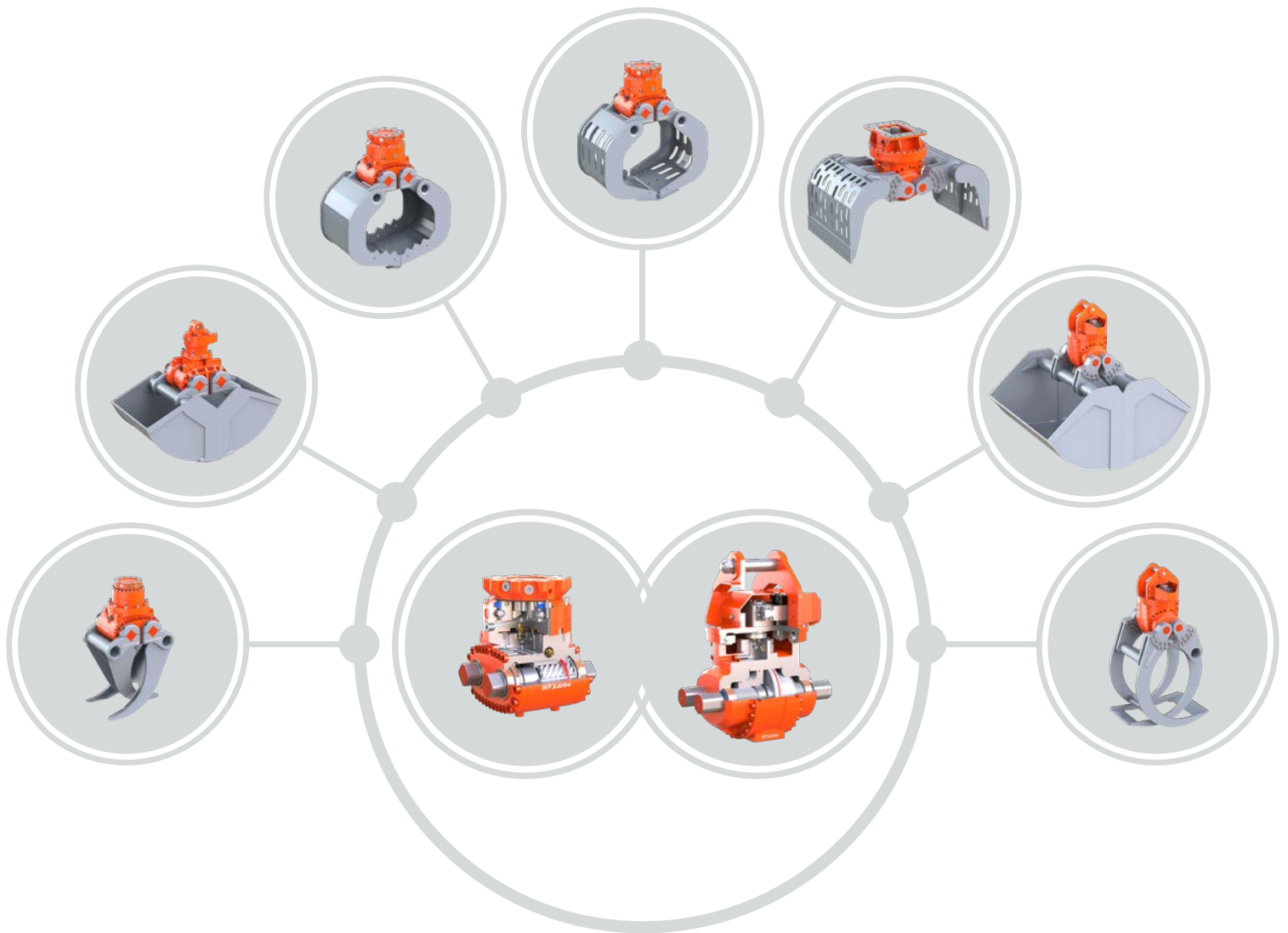




**KINSHOFER**  
crane and excavator attachments

# *HPXdrive* Technology Excavator

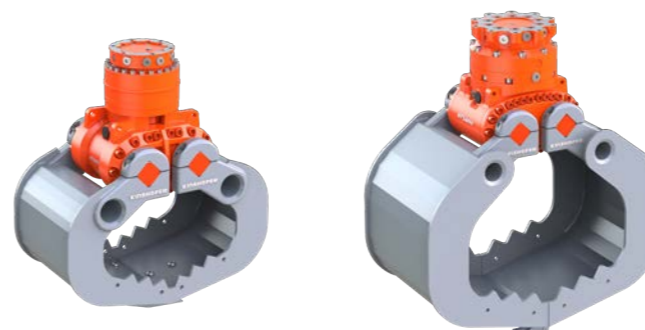
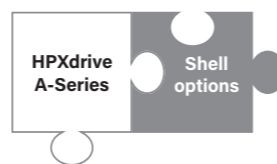


**A-SERIES**

The multi purpose grabs are true multi-functional tools: positioning natural rocks, picking up brushwood & branches, easy sorting tasks. The sophisticated ergonomics and the design of the shells enable loading, sorting, digging and demolition operations with maximum efficiency. Bolt-on side plates and a 4-point soft gripping device for the handling of e.g. manhole rings provide even more flexibility.

## POSSIBLE SHELL COMBINATIONS:

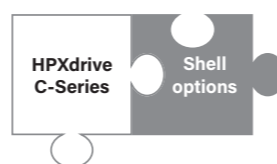
- ▷ A04HPX – D04HPX
- ▷ A06HPX – D06HPX – T06HPX-3Z
- ▷ A09HPX – D09HPX – T09HPX-3Z

**C-SERIES**

The clamshell buckets (C05HPX & C08HPX) prove their value especially during digging or backfilling tasks. The C40HPX re-handling clamshell bucket is suitable for loading bulk material. The closing forces are constant and high during the entire opening and closing process.

## POSSIBLE SHELL COMBINATIONS:

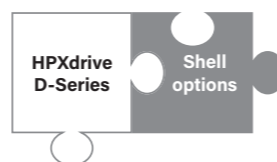
- ▷ C05HPX – R05HPX
- ▷ C08HPX – R08HPX
- ▷ C40HPX – T40HPX 4/3 (cardanic)

**D-SERIES**

The strong demolition and sorting grabs are well-suited for demolition and separation of all kinds of building materials and waste. The robust rotations with direct internal hydraulic connections guarantee a precise position, an optimum force transmission and prevent damages.

## POSSIBLE SHELL COMBINATIONS:

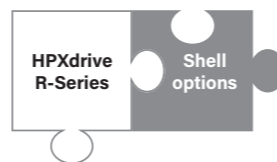
- ▷ D04HPX – A04HPX
- ▷ D06HPX – A06HPX – T06HPX-3Z
- ▷ D09HPX – A09HPX – T09HPX-3Z
- ▷ D37HPX – T40HPX 4/3 (rigid mount)

**R-SERIES**

The rock grabs are ideal for the gripping and positioning of natural stones and rocks. Thanks to the constant closing forces during the entire gripping process and the integrated non-return valve, a safe positioning of natural stones and rocks is no problem, even in the case of pressure drops.

## POSSIBLE SHELL COMBINATIONS:

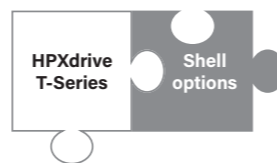
- ▷ R05HPX – C05HPX
- ▷ R08HPX – C08HPX

**T-SERIES**

The timber grabs combine the reliability of the revolutionary HPXdrive with robust timber tines. Clamping single or several trunks is no problem at all thanks to the high constant closing forces.

## POSSIBLE SHELL COMBINATIONS:

- ▷ T06HPX-3Z – A06HPX – D06HPX
- ▷ T09HPX-3Z – A09HPX – D09HPX
- ▷ T40HPX
- ▷ T40HPX 4/3 (rigid mount) – D37HPX
- ▷ T40HPX 4/3 (cardanic) – C40HPX

**Functional exchange,  
depending on demands!**

During times of growing costs and environmental awareness, efficient working is getting more and more important. The HPXdrive stands out thanks to its extended lifetime compared to a conventional cylinder-driven grab. Not only the maintenance downtimes are reduced but also the operational expenses. The integrated shell exchange system and the different available shell options provide for a higher flexibility on the one hand, and lower the asset cost for additional attachments on the other hand.

**CUSTOMER BENEFITS:****FLEXIBLE OPERATION**

Fast and uncomplicated response to requirements to be more competitive.

**LOW MAINTENANCE**

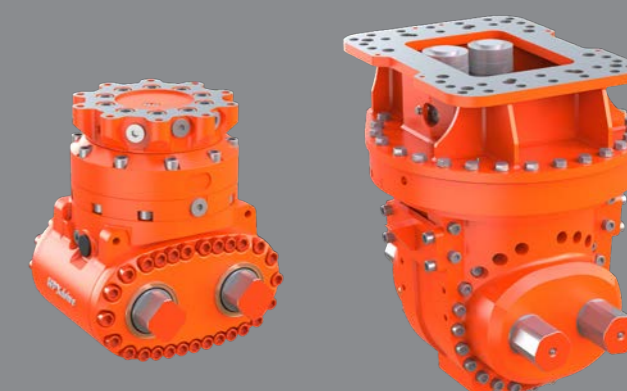
No greasing points at the HPXdrive that need to be lubricated on a daily basis, saving time and maintenance costs.

**LESS WEAR**

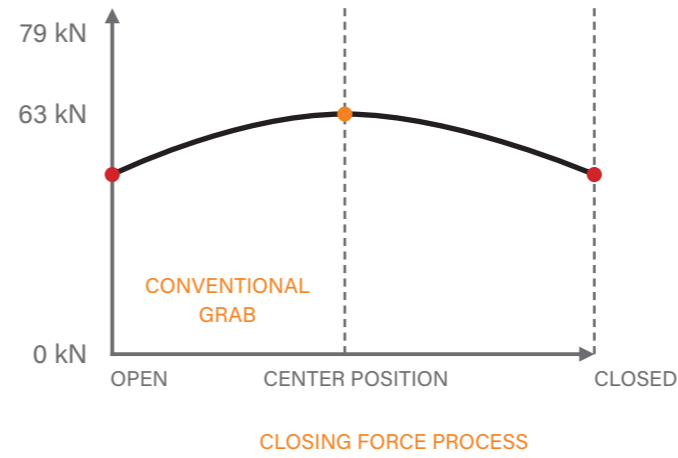
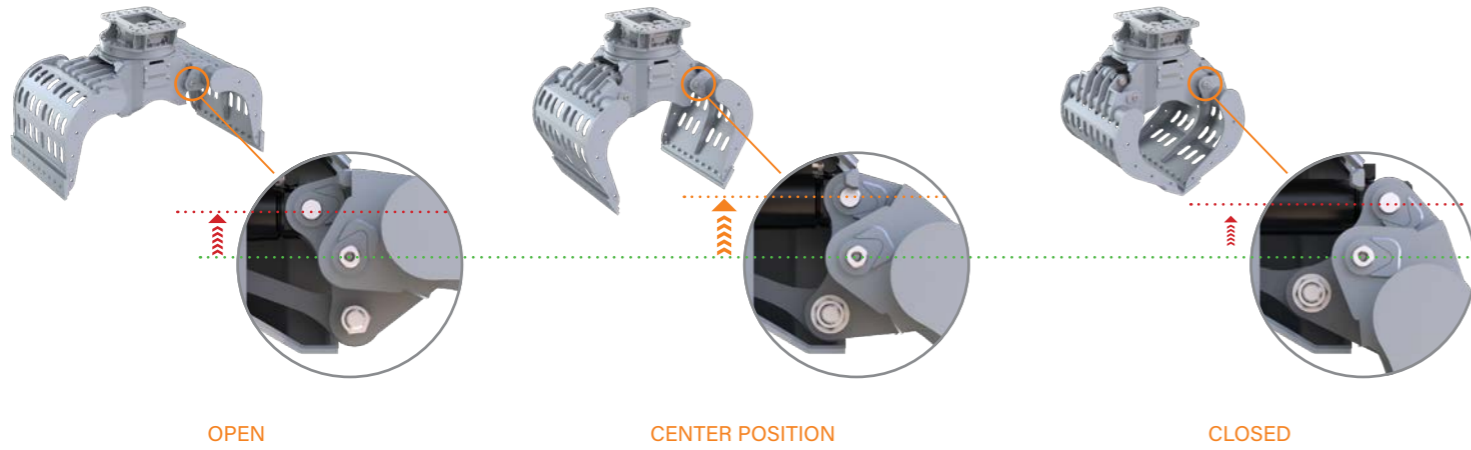
The compact and extremely robust design without hydraulic cylinders or short hoses lower the risk of damages.

**HIGHER EFFICIENCY**

More powerful working thanks to constant closing forces during the entire gripping performance. The tasks can thus be finished faster and the wear is kept to a minimum.

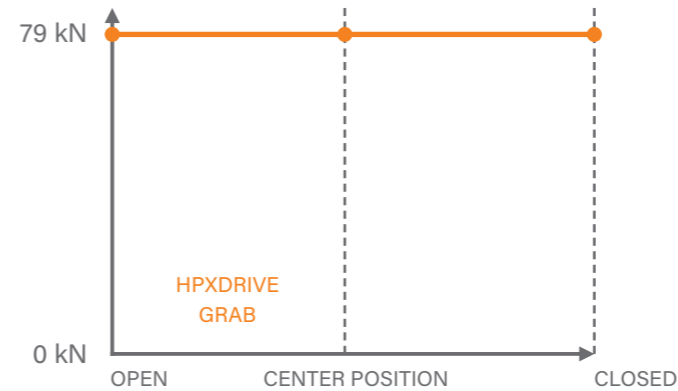
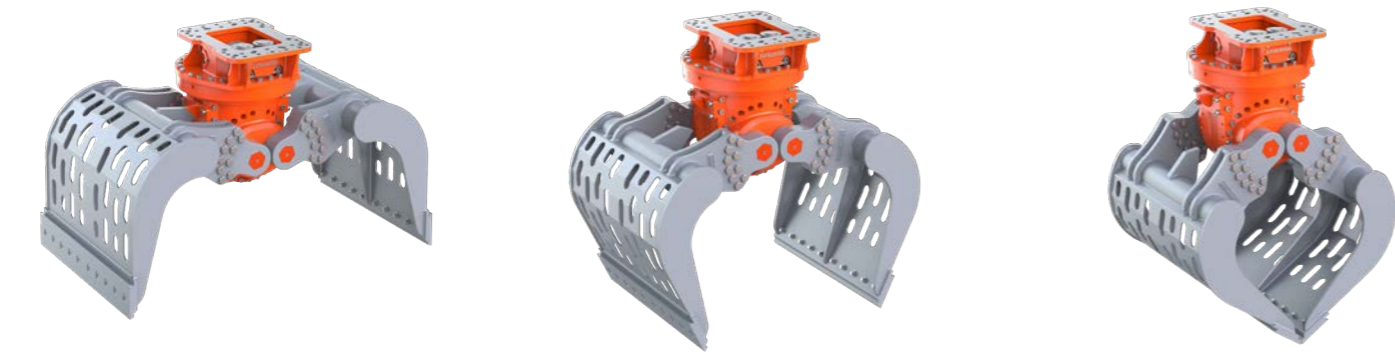
**Compact design**

The compact and very robust design of the HPXdrive unit has no greasing points and combined with a KINSHOFER directly mounted rotator, there are no short connecting hoses required anymore (internal hydraulic connections).



## Hydraulic drive unit HPXdrive

**CLOSING FORCE**  
Compared to conventional cylinder grabs, the closing force of the HPXdrive is high and constant during the entire operation. The movement of the arms is generated by two hollow shafts, which run oppod and have a helix thread, hydraulically driven by a single piston. The resulting closing force is always the same no matter the position of the shells.



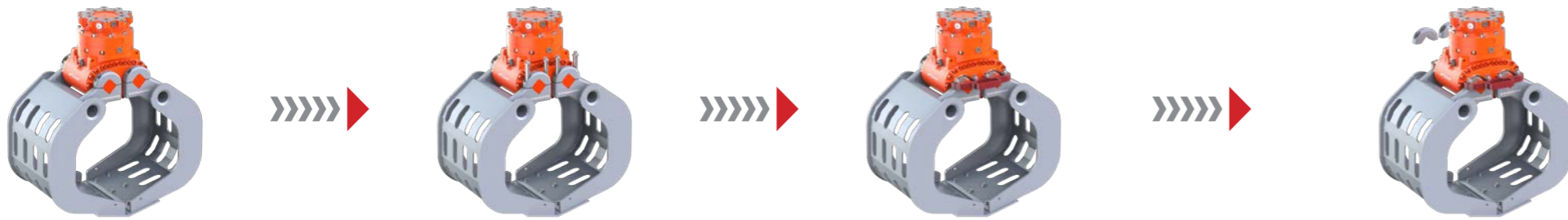
**HPXDRIVE 40t:** Here, the rotation of the arms is generated by two hollow shafts with four helix threads.

**STARTING POSITION:**  
Shells are orderly fixed

**STEP 1:**  
Loosen 4 retaining bolts on one side

**STEP 2:**  
Remove loose bolts and clamping parts and place exchange aid

**STEP 3:**  
Loosen bolts on other side, Remove bolts and clamping parts and place exchange aid

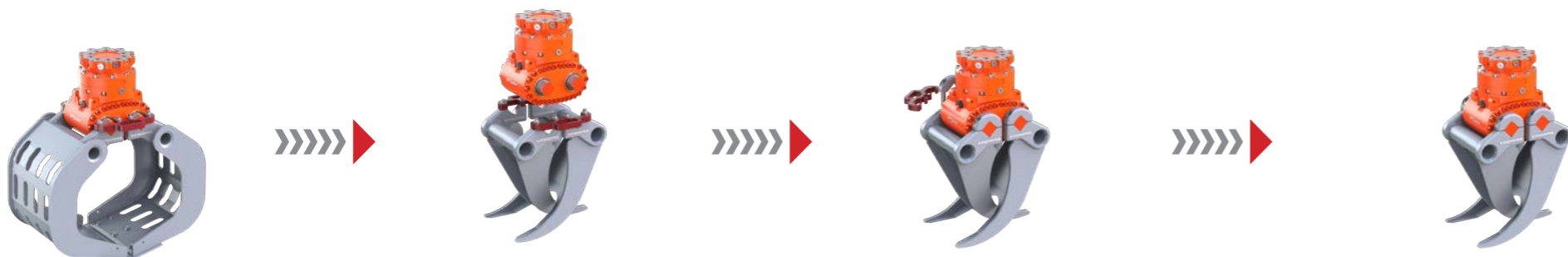


**CHANGE POSITION:**  
HPXdrive is loose

**STEP 4:**  
Lift HPXdrive and position above other shells

**STEP 5:**  
First remove exchange aids and bolt on clamping parts on one side, then repeat on the other side

**FINAL POSITION:**  
Shells are orderly fixed



## Exchange of shells with HPXdrive

Thanks to the shell exchange system you are able to clearly lower the investment costs for your fleet. Just change fast and easy to the suitable shell option depending on the task. The reliable shell exchange system features an easy loosening of the shells in case of exchange and a safe and steady holding of loads during every task. Setup times can be reduced to a minimum. The flexibility of your work processes as well as your competitive abilities can be increased.



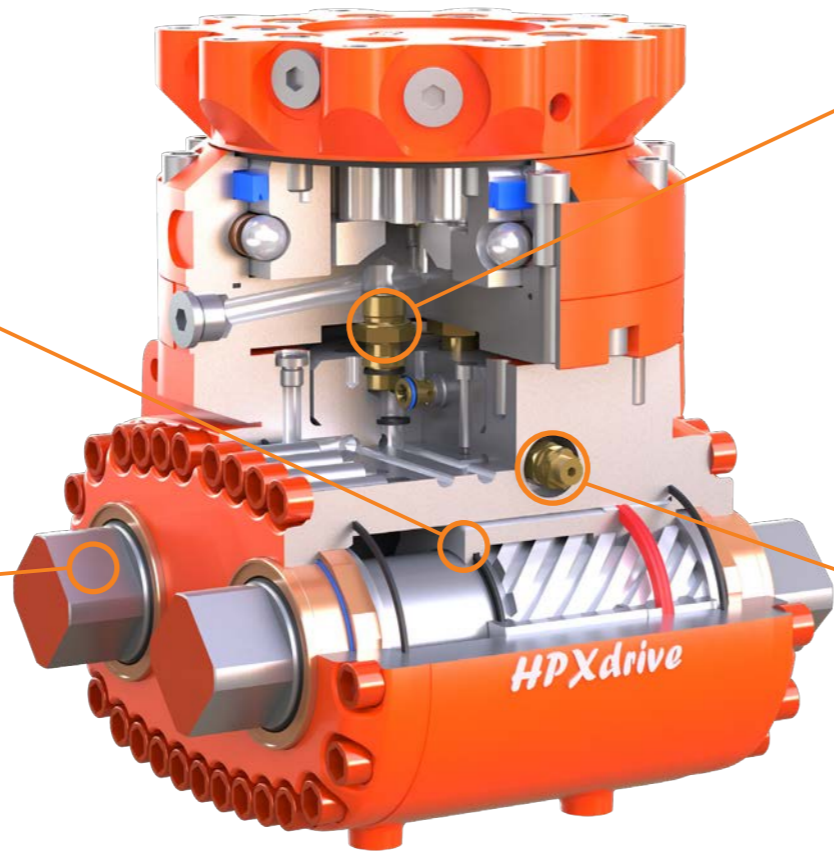
# Rigid mount up to 9t

## FUNCTION: SHAFT & PISTON

The linear shift of the piston is converted into a rotary motion of the two shafts by counter-rotating helix threads. The use of a compensation rod for shell synchronisation is not necessary and the generated closing forces are constant and high. They remain constant during the entire operation.

## SYSTEM: EXCHANGE OF SHELLS

The hydraulic drive is equipped with a simple shell exchange system, providing for a 5-step-exchange within 10 minutes. You can change to different shells e.g. demolition grab, clamshell bucket or timber grab, using only one drive unit. The nitrided shafts and piston feature a robust surface resulting in a minimized wear.



## STRUCTURE: UNIT

The Kinshofer rotator and the HPXdrive form a compact and robust unit. It withstands external forces with the hydraulic connections being direct and located inside, there are no short hoses necessary. Therefore, leaks due to damaged hose cannot happen and allow the use in water protection areas. As the drive unit runs in a permanent oil bath, there is no lubrication necessary.

## SAFETY: SAFETY VALVES



The HPXdrive is equipped with a pressure relief valve protecting the grab from overcharge. The integrated non-return valve guarantees a secure retention of loads. An installation of valves at the carrier machine is not necessary.

# Hydraulic drive unit for rigid mount up to 9t

Type	Tonnage	Opening	Closing force
A04HPX	2 - 4t	1043 mm	18 kN
D04HPX	2 - 4t	1045 mm	18 kN
A06HPX	4 - 6t	1344 mm	18 kN
D06HPX	4 - 6t	1350 mm	18 kN
T06HPX	4 - 6t	1210 mm	17 kN
A09HPX	6 - 9t	1545 mm	15,5 kN
D09HPX	6 - 9t	1545 mm	15,5 kN
T09HPX	6 - 9t	1210 mm	17,5 kN

The information about the closing force refers to the max. working pressure of 250 bar.

## Accessories A- and D-Series



**A-SERIES:**  
MULTI PURPOSE GRAB WITH HPXdrive



**D-SERIES:**  
DEMOLITION AND SORTING GRAB WITH HPXdrive



**T-SERIES:**  
TIMBER GRAB WITH HPXdrive



**4-POINT SOFT GRIPPING DEVICE FOR A- & D-SERIES:**  
For the safe handling of e.g. manhole rings without damaging them.



**BOLT-ON SIDE PLATES FOR A-SERIES**

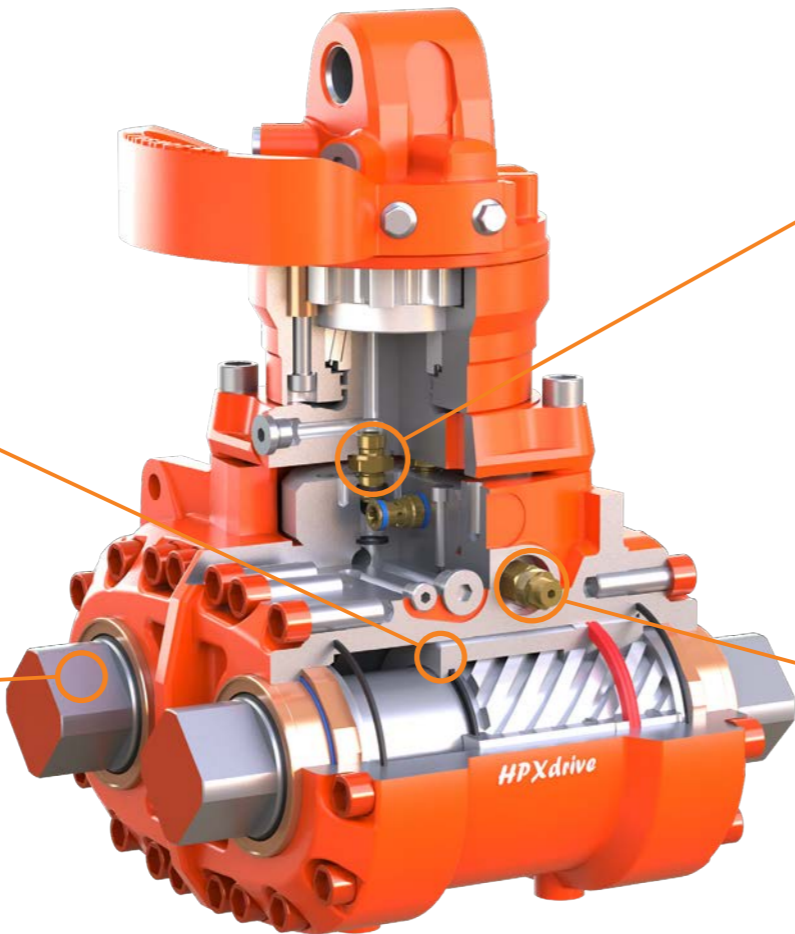
# Cardanic mount up to 9t

**FUNCTION:**  
SHAFT & PISTON

The linear shift of the piston is converted into a rotary motion of the two shafts by counter-rotating helix threads. The use of a compensation rod for shell synchronisation is not necessary and the generated closing forces are constant and high. They remain constant during the entire operation.

**SYSTEM:**  
EXCHANGE OF SHELLS

The hydraulic drive is equipped with a simple shell exchange system, providing for a 5-step-exchange within 10 minutes. You can change to different shells e.g. demolition grab, clamshell bucket or timber grab, using only one drive unit. The nitrided shafts and piston feature a robust surface resulting in a minimized wear.



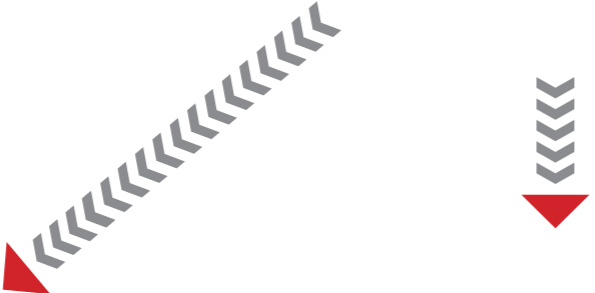
**STRUCTURE:**  
UNIT

The Kinshofer rotator and the HPXdrive form a compact and robust unit. It withstands external forces with the hydraulic connections being direct and located inside, there are no short hoses necessary. Therefore, leaks due to damaged hose cannot happen and allow the use in water protection areas. As the drive unit runs in a permanent oil bath, there is no lubrication necessary.

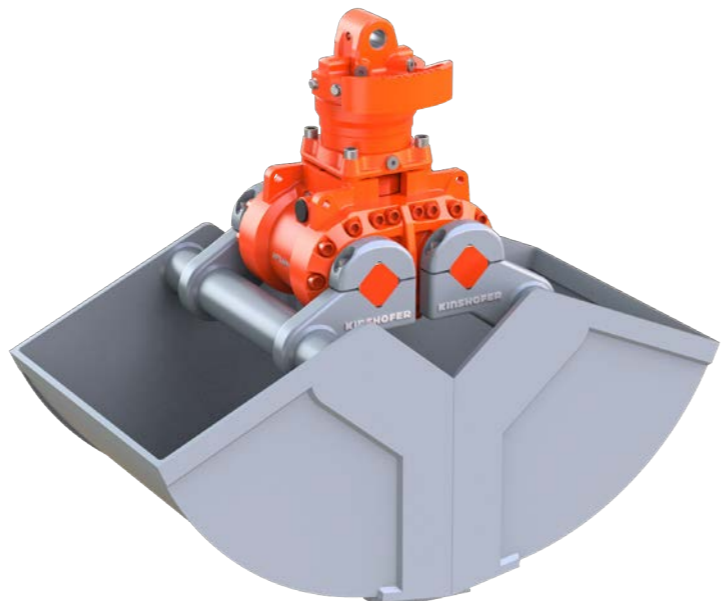
**SAFETY:**  
SAFETY VALVES



The HPXdrive is equipped with a pressure relief valve protecting the grab from overcharge. The integrated non-return valve guarantees a secure retention of loads. An installation of valves at the carrier machine is not necessary. A hose protection for the long hydraulic hoses going to the excavator is included.



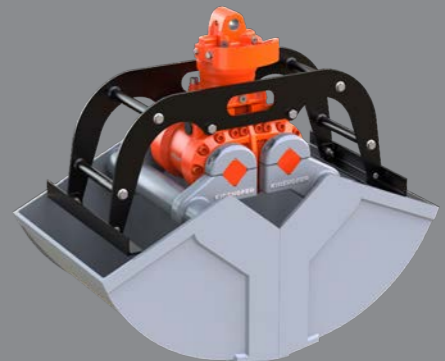
**R-SERIES:**  
ROCK GRAB WITH HPXdrive



**C-SERIES:**  
CLAMSHELL BUCKET WITH HPXdrive



**DIGGING EXTENSION FOR C-SERIES:**  
NO EXTERNAL HYDRAULIC LINES!



**SCRAPER C-SERIES**

# Hydraulic drive unit for cardanic mount up to 9t

Type	Tonnage	Opening	Closing force
C05HPX	3 - 6t	1110 mm	25 kN
C08HPX	6 - 9t	1250 mm	22 kN
R05HPX	3 - 6t	1210 mm	18 kN
R08HPX	6 - 9t	1210 mm	18 kN

The information about the closing force refers to the max. working pressure of 250 bar

# Accessories C-Series



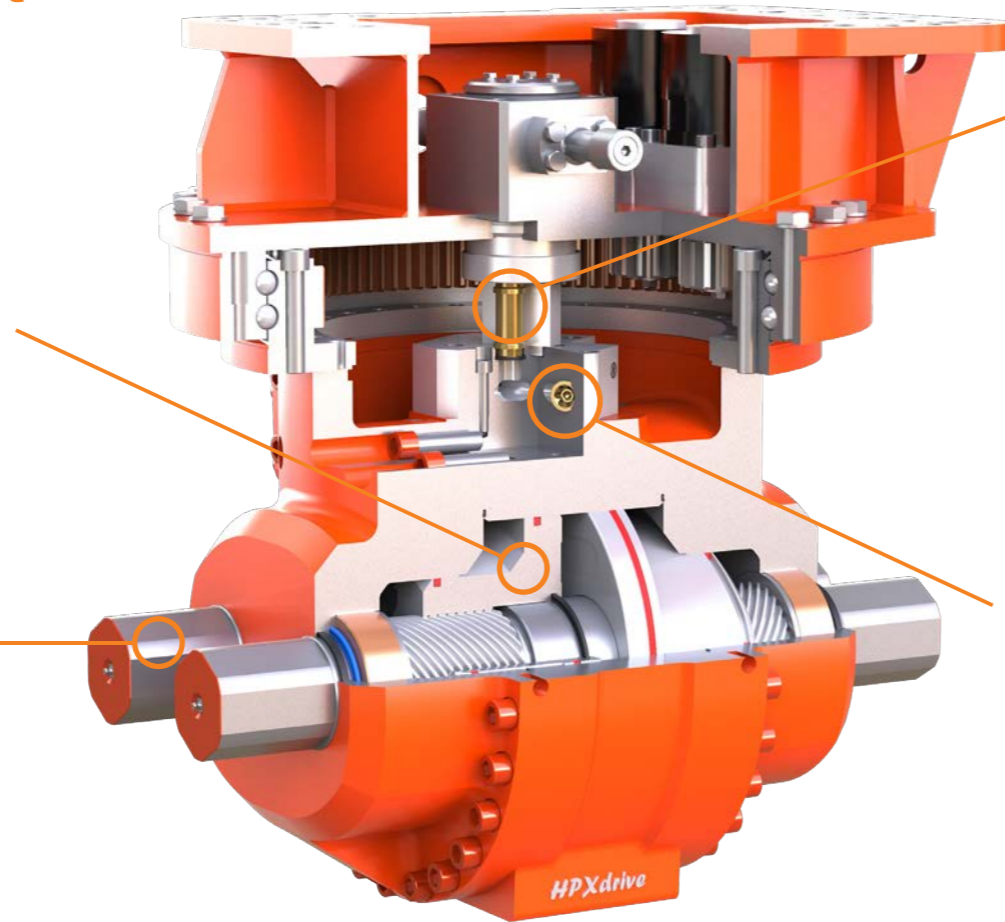
# Rigid mount up to 40t

**FUNCTION:**  
SHAFT & PISTON

The linear shift of two pistons is converted into a rotary motion of the two shafts by counter-rotating helix threads. The use of a compensation rod for shell synchronisation is not necessary and the generated closing forces are constant and high.

**SYSTEM:**  
SHELL MOUNTING

The precisely manufactured hexagonal shell connections transfer the very high torque in a safe and free of play way to the shells. The nitrided shafts and pistons feature a robust surface resulting in a minimized wear.



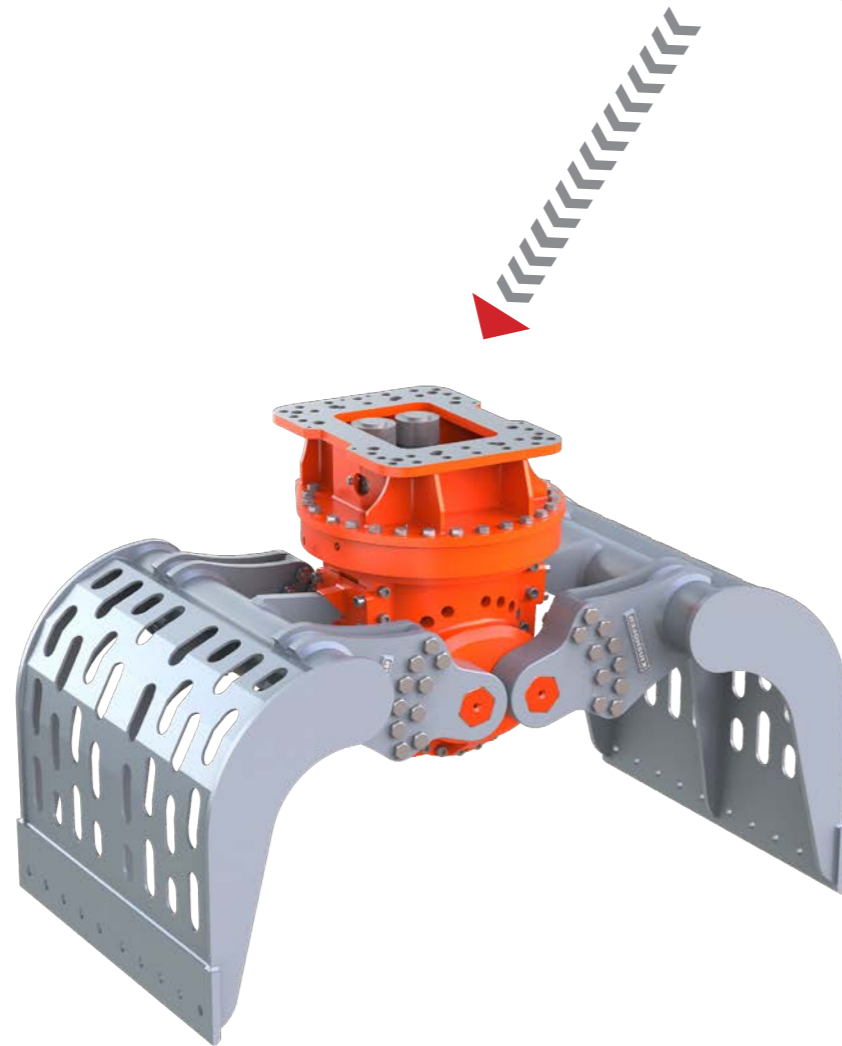
**STRUCTURE:**  
UNIT

The Kinshofer rotation and the HPXdrive form a compact and robust unit. It withstands external forces with the hydraulic connections being direct and located inside, there are no short hoses necessary. Therefore, leaks due to damaged hose cannot happen and allow the use in water protection areas. As the drive unit runs in a permanent oil bath, there is no lubrication necessary.

**SAFETY:**  
SAFETY VALVES



The HPXdrive has an integrated non-return valve preventing an unintentional opening of the grab in case of pressure drops. The safety of the component is guaranteed up to 350 bar and make an installation of valves on the carrier machine void.



**D-SERIES 40T:**  
DEMOLITION AND SORTING GRAB WITH HPXdrive



**T-SERIES 40T:**  
TIMBER AND UNIVERSAL GRAB WITH HPXdrive

## Hydraulic drive unit for rigid mount up to 40t

Type	Tonnage	Opening	Closing force
D27HPX	20 - 27t	2000 mm	79 kN
D32HPX	25 - 32t	2150 mm	72 kN
D37HPX	32 - 37t	2250 mm	69 kN

T40HPX 4/3	25 - 40t	2900 mm	43 kN
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The information about the closing force refers to the max. working pressure of 350 bar

## Accessories



**INTEGRATED QUICK COUPLING ADAPTER:**  
The overall height can be further reduced by an adapter integrated in the upper part. Additionally, an internal hydraulic connection is possible.

# Cardanic mount up to 40t

**FUNCTION:**  
SHAFT & PISTON

The linear shift of two pistons is converted into a rotary motion of the two shafts by counter-rotating helix threads. The use of a compensation rod for shell synchronisation is not necessary and the generated closing forces are constant and high.

**SYSTEM:**  
SHELL MOUNTING

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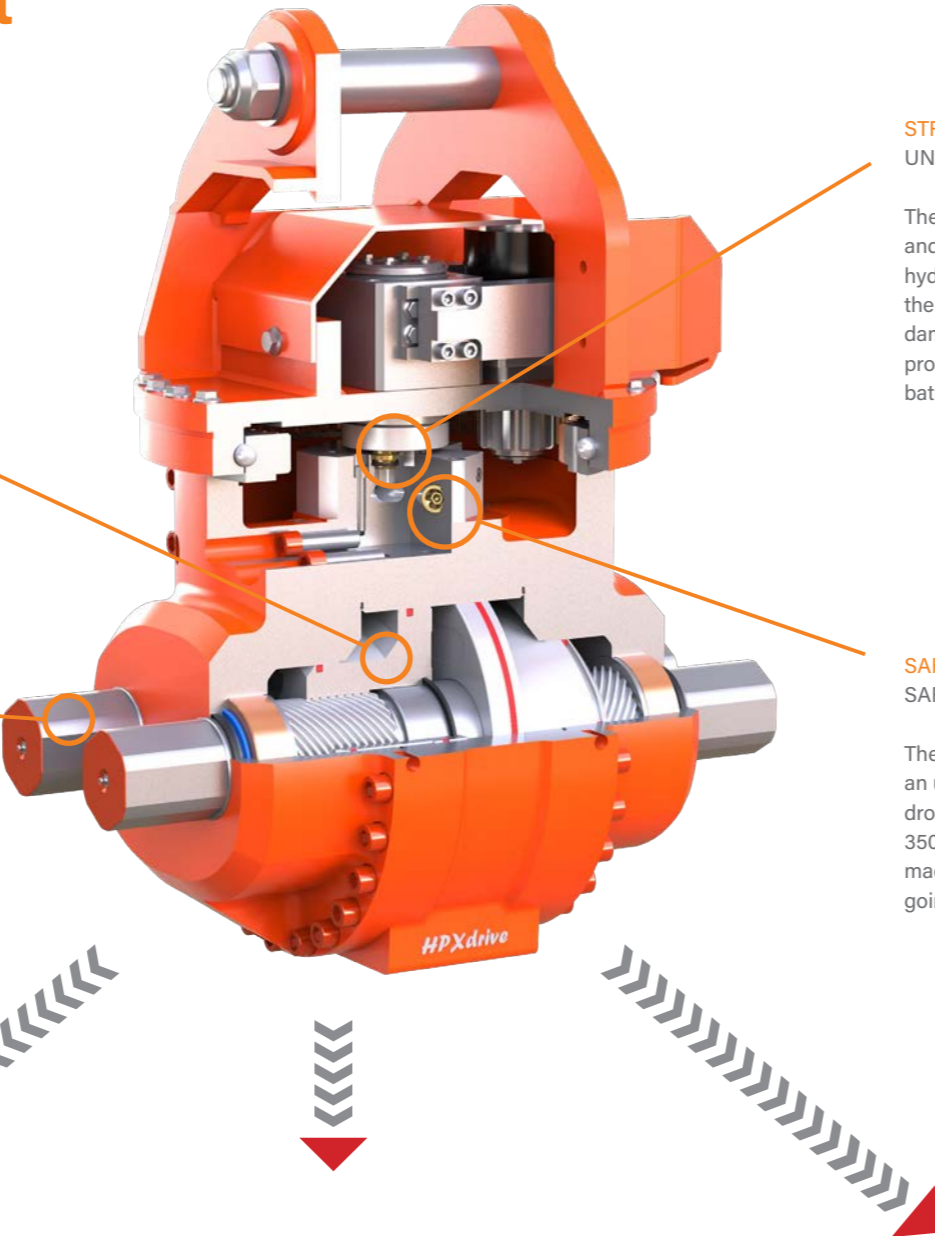
**STRUCTURE:**  
UNIT

The Kinshofer rotation and the HPXdrive form a compact and robust unit. It withstands external forces with the hydraulic connections being direct and located inside, there are no short hoses necessary. Therefore, leaks due to damaged hose cannot happen and allow the use in water protection areas. As the drive unit runs in a permanent oil bath, there is no lubrication necessary.

**SAFETY:**  
SAFETY VALVES



The HPXdrive has an integrated non-return valve preventing an unintentional opening of the grab in case of pressure drops. The safety of the component is guaranteed up to 350 bar and make an installation of valves on the carrier machine void. A hose protection for the long hydraulic hoses going to the excavator is included.



**C-SERIES 40T - OPEN SHELLS:**  
RE-HANDLING CLAMSHELL BUCKET WITH HPXdrive



**C-SERIES 40T - CLOSED SHELLS:**  
RE-HANDLING CLAMSHELL BUCKET WITH HPXdrive



**T-SERIES 40T:**  
TIMBER AND UNIVERSAL GRAB WITH HPXdrive

# Hydraulic drive unit for cardanic mount up to 40t

Types	Tonnage	Volume	Closing force
C40HPX	20 - 40t	1250 - 5000 l	55 - 69 kN
C40HPX-C	20 - 40t	2250 - 5000 l	55 - 63 kN

Types	Tonnage	Volume	Closing force
T40HPX	20 - 40t	1.0 - 2.5 m <sup>2</sup>	24 - 41 kN
T40HPX 4/3	25 - 40t	1.14 m <sup>2</sup>	43 kN

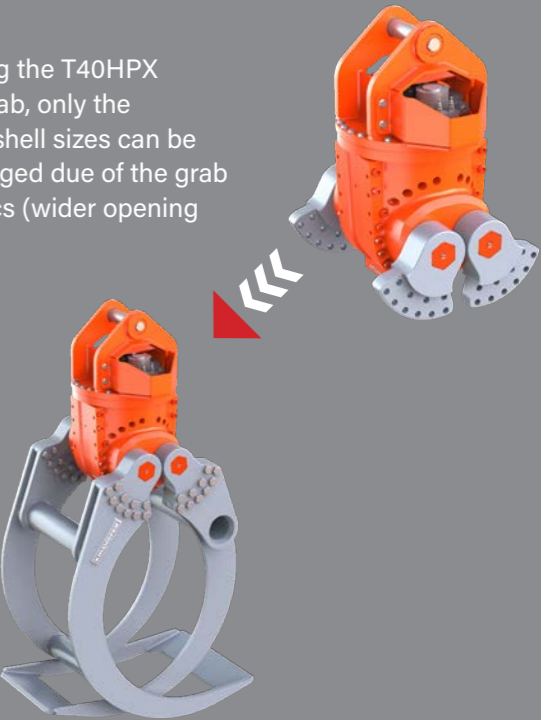
The information about the closing force refers to the max. working pressure of 350 bar

## T40HPX

Note:

Regarding the T40HPX timber grab, only the T40HPX shell sizes can be interchanged due of the grab kinematics (wider opening range).

T40HPX-MODULE



**T40HPX:**  
TIMBER GRAB with HPXdrive



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