

HPXdrive CRANE

KINSHOFER
crane and excavator attachments

HPXdrive
CRANE



HPXdrive

The hydraulic drive unit **HPXdrive Standard**, characterized by its constant closing force, is optimally suited for daily operations in general construction, civil engineering and landscaping. Thanks to its constant closing force of 34 kN, the **HPXdrive Heavy Duty** is ideal for difficult tasks.

In contrast to conventional hydraulic grabs, with the **HPXdrive** the torque is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. The force is delivered to two shafts, on which the shells are mounted. These advantages of the **HPXdrive** - technology provide an extended service life and higher efficiency.

The compact design of the **HPXdrive** without open greasing points allows for operations in water protection areas, as no lubricant can be washed out.



PRESSURE RELIEF VALVES NON-RETURN VALVE

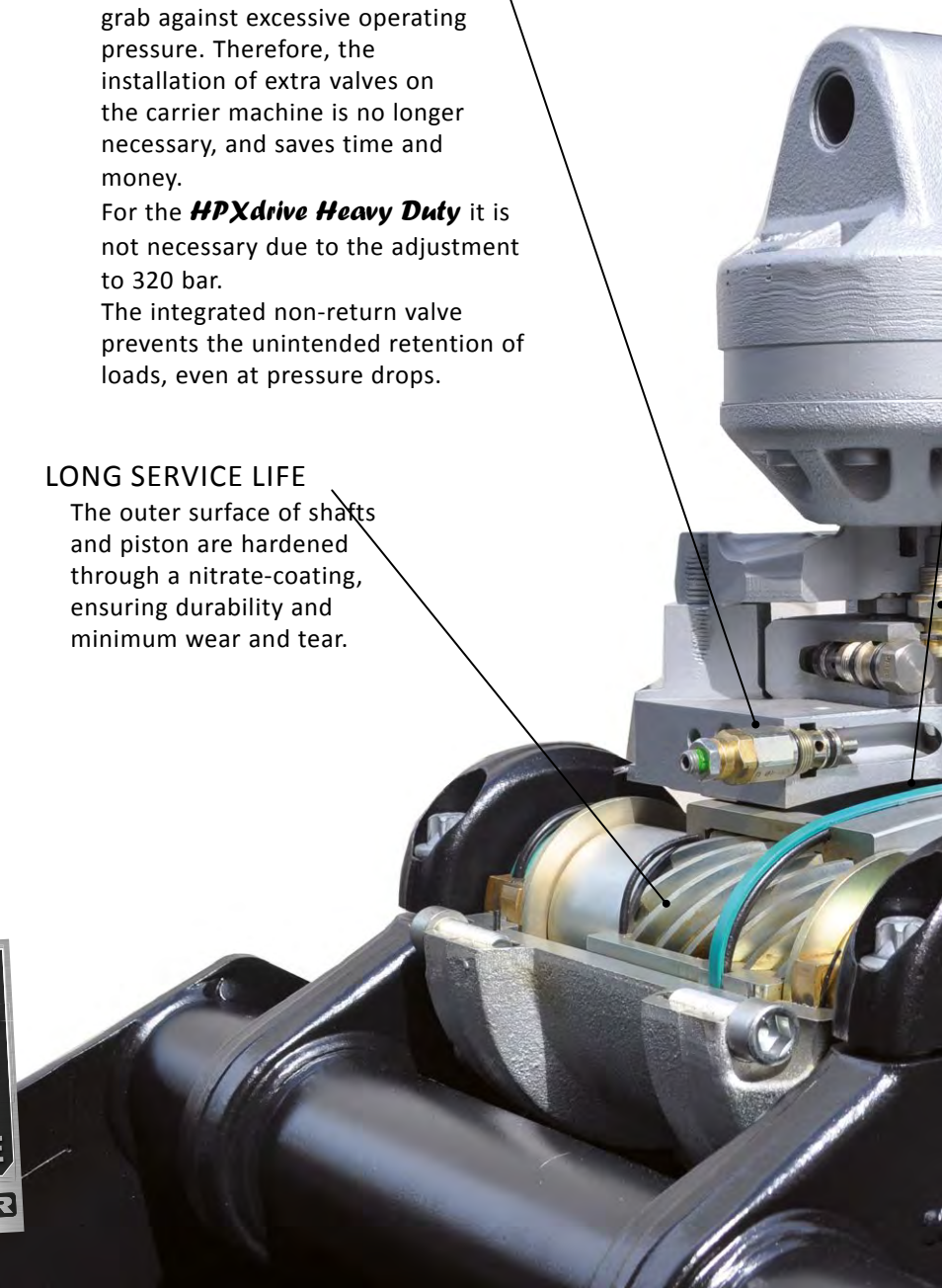
Two pressure relief valves protect the **HPXdrive Standard** grab against excessive operating pressure. Therefore, the installation of extra valves on the carrier machine is no longer necessary, and saves time and money.

For the **HPXdrive Heavy Duty** it is not necessary due to the adjustment to 320 bar.

The integrated non-return valve prevents the unintended retention of loads, even at pressure drops.

LONG SERVICE LIFE

The outer surface of shafts and piston are hardened through a nitrate-coating, ensuring durability and minimum wear and tear.





CONSTANT CLOSING FORCE

Full closing force is delivered from the beginning of the digging process, when the shells are in the opened position, ensuring powerful penetration even in grown soil. Full closing force is also provided at the end when the shells are closed. The hydrostatic bearings of the **HPXdrive Heavy Duty** for the axes increase the degree of efficiency and lead to a higher closing force than for the **HPXdrive Standard**.

Please note: Closing forces refer to an internal work pressure of 26 MPa (260bar) for **HPXdrive Standard** - the recommended oil flow of 50 l/min provides an opening and closing time of 1,9 sec. For **HPXdrive Heavy Duty** at 32 MPa (320 bar) - the recommended oil flow of 60 l/min provides an opening time of 1,3 sec. and closing time of 2,6 sec.

SHELL SYNCHRONISATION

As a result of having only one piston the shafts run synchronically and uniform. Compensation rods are unnecessary.

ROTATOR AND **HPXdrive**

The hydraulic rotator with continuous rotation and the **HPXdrive** are integrated in a single unit. Connecting hoses are not necessary, therefore no danger of leaks or breakage.

OPTIMAL WEIGHT

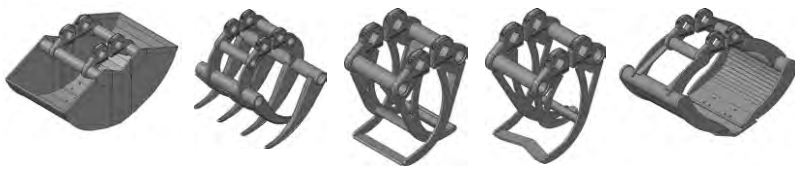
Optimally sized parts reduce overall weight.



MAINTENANCE FREE

The drive unit runs in a permanent oil bath – no lubrication necessary. This saves time and extends the service life.

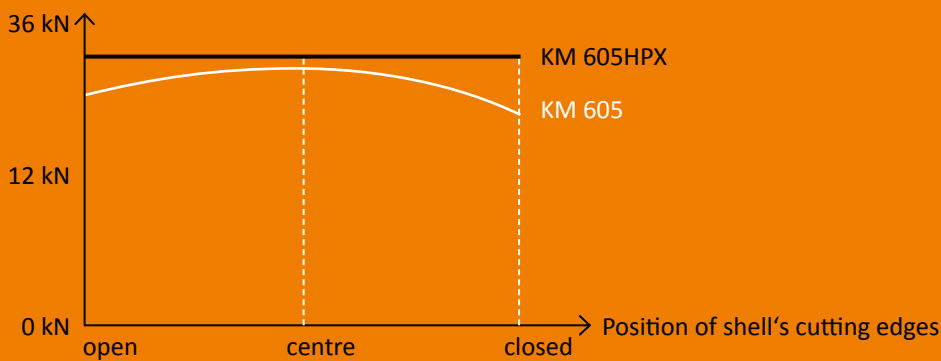




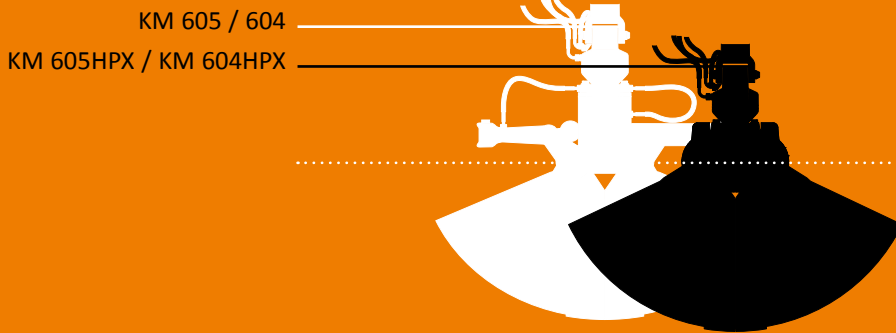
SHELL EXCHANGE SYSTEM

The bucket shells are bolted to the shafts and therefore easy to replace by another set. Different types of shells for diverse applications can be refitted onto the driving unit, e.g. clamshell bucket with or without open shells, multi purpose grab and rock and timber grab.

Comparison of Closing Forces in kN



Compact Design



Due to its compact design with the low overall height, the **HPXdrive** is resistant against dirt, blows and uprising material. There are no protruding parts and the shells are easily accessible from the top. No hoses are required in combination with a **KINSHOFER**-rotator with flange. Hydraulic hoses are not necessary due to the direct connection between rotator and drive unit (internal oil passage).

No leaks. No hose damages.



Shells mounted



Loosen 4 bolts on each side



Remove connecting pieces one after another



HPXdrive loosened



Lift **HPXdrive** for exchange of shells



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crane and excavator attachments