

The KM 604U HPX is a clamshell bucket using the *HPXdrive Standard* for handling and easy digging tasks. The open shells enable the handling of bulky materials. Non-return valve, pressure relief valve, welded hooks and reversible wear plates are delivered on each grapple. The revolutionary *HPXdrive*-technology guarantees a reliable and low maintenance attachment.

- ▷ **Reliability** of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!
- ▷ **Longer life cycle** up to 50%! **Self-lubrication:** The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.
- ▷ **Versatility** with different types of shells that can easily be refitted onto the driving unit.
- ▷ **Profitability** through low maintenance costs and longer life cycle.
- ▷ **Precise handling** with the gear-type KINSHOFER rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.
- ▷ **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured.
- ▷ **Constant closing force** (17 kN at 26 MPa operating pressure) over the entire opening and closing process.



### Packages clamshell bucket KM 604U HPX with **KINSHOFER** flange rotator

Type	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
KM 604U HPX-250 c	250	570	1100	1590	375	17	3000
KM 604U HPX-300 c	300	670	1100	1590	395	17	3000
KM 604U HPX-400 c	400	820	1100	1590	415	17	3000
KM 604U HPX-500 c	500	1020	1100	1590	445	17	3000
<b>Package consists of:</b>	clamshell bucket, rotator KM 04 F140-30V, upper suspension KM 501 (4500), wear plates KM 685 07 set, welded hooks KM 685 06 hook set 2, pressure relief valve, non-return valve						
<b>HPX-KM 505 add</b>	also available with a shaft rotator and quick change system KM 505						
<b>HPX-KM 505 HD add</b>	for heavy duty tasks we recommend the quick change system KM 505 HD in combination with the KINSHOFER rotator KM 04 S68-30US						

### Packages clamshell bucket KM 604U HPX/502 with **KINSHOFER** shaft rotator and reduction link

Type	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
KM 604U HPX-250/502 c	250	570	1155	1590	380	17	3000
KM 604U HPX-300/502 c	300	670	1155	1590	395	17	3000
KM 604U HPX-400/502 c	400	820	1155	1590	420	17	3000
KM 604U HPX-500/502 c	500	1020	1155	1590	450	17	3000
<b>Package consists of:</b>	clamshell bucket, rotator KM 04 S, reduction link KM 502 (4500), short connecting hoses KM 203 01, upper suspension KM 501 (4500), wear plates KM 685 07, welded hooks KM 685 06 hook set 2, pressure relief valve, non-return valve						

### Accessories

Type	Description
KM 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
KM 381 09 (720)	compression rails – length 720 mm (2 pieces)
KM 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
KM 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)
KM 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
KM 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

### Requirements of truck crane

#### Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min

### Technical drawings

