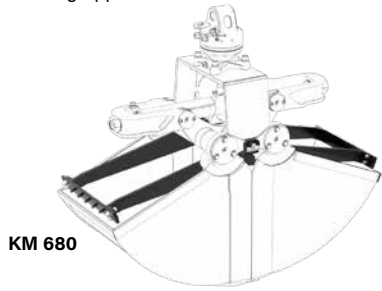


Accessories for Clamshell Buckets

KM 680 – Scraper

Scrapers for clamshell buckets with narrow widths clear the inside of the shells of sticky materials such as clay, during each opening. The design varies depending on the grapple.



KM 680

Type for Clamshell bucket

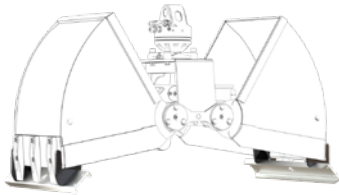
KM 680 01	KM 603/ 604/ 604HPX/ 605/ 605HPX/ 606/ 607
KM 680 02	KM 626HPX
KM 505 04	link-set for KM 604HPX/605HPX/626HPX in combination with KM 505 / KM 505 HD and scraper KM 680

link for the combination
KM 505 (HD) + HPXdrive + scraper



KM 685 05 – Adapters for Compression Rails

Adapters enable mounting of compression rails or support for concrete rings, for handling paving slabs, curbstones, concrete rings etc. The adapters can only be used with a **non-return valve**. They are not suitable for the use with a scraper.



KM 685 05

Type Description

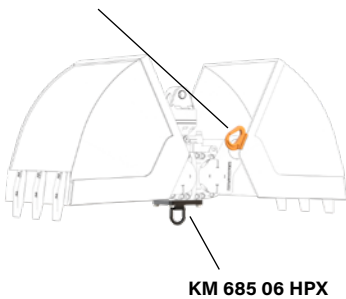
KM 685 05	adapters for compression rails
KM 381 09 720	compression rails – length 28 in long (2 pieces)
KM 381 09 1000	compression rails – length 39 in long (2 pieces)

The adapters for compression rails are available for the following clamshell buckets:
KM 603 / 604HPX / 605 / 605HPX / 605U HPX

KM 685 06 - Central Lifting Device for HPX, Welded Hook or Welded Eye

The central lifting device for HPXdrive, welded eyes or welded hooks suit lifting chains or slings. The max. capacity per eye or hook is 2200 lbs.

KM 685 06 hook



KM 685 06 HPX

KM 685 06 HPX SD	to suit lifting chain or sling, 1 piece
KM 685 06 HPX HD	to suit lifting chain or sling, 1 piece
KM 685 06 hook	to suit lifting chain or sling, 1 piece
KM 685 06 hook set 2	to suit lifting chain or sling, 2 pieces
KM 685 06 hook set 4	to suit lifting chain or sling, 4 pieces
KM 685 06 eye	to suit lifting chain or sling, 1 piece
KM 685 06 eye set 2	to suit lifting chain or sling, 2 pieces



central lifting device HPXdrive

KM 685 06 hook



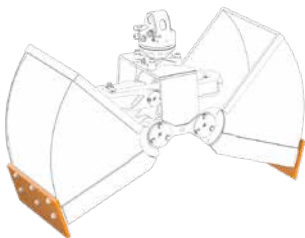
welded hook

KM 685 06 eye
(not with HPXdrive)



welded eye

KM 685 07 - Wear Plates (2 pieces)



Type Description

KM 685 07 set	wear plates, 2 pieces, reversible, to protect horizontal cutting edges
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KM 685 08 - Extension for Excavating with HPXdrive



Type Description

KM 685 08-450 mm	HPXdrive extension for excavating e.g. trenches (for canal and civil engineering) 17.7 in (66 lbs)
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KM 501 - Upper Suspension between Rotator and Crane



An upper suspension is a cardan link between rotator and crane. It is available for all current makes and models of cranes. Please specify dimensions when ordering.

Type	Load capacity (lbs)	Self weight (approx. lbs)
KM 501 3000	up to 6600	11
KM 501 4500	up to 9900	22
KM 501 6000	up to 13200	33
KM 501 10000	up to 22000	55

KM 511 - Upper Suspension with Pendulum Damper between Rotator and Crane



A pendulum damper reduces the horizontal swing of the attachment. It can also be retrofitted to an existing upper suspension.

Type	Load capacity (lbs)	Self weight (approx. lbs)
KM 511 4500	up to 9900	33
KM 511 6000	up to 13200	44
KM 511 10000	up to 22000	66

KM 206 - Hose Guard



The hose guard is a metal bow to be attached onto the rotator. It is designed to protect the hoses of the rotator from damage i.e. from protruding branches

Type	Self weight (approx. lbs)
KM 206 hose guard for the rotator	7

KM 502 - Reduction Link between Rotator and Grapple



A reduction link adapts a shaft type rotator to an attachment with a standard hole pattern for a flange.

Type	Load capacity (lbs)	Self weight (approx. lbs)
KM 502 3000	up to 6600	4
KM 502 4500	up to 9900	7
KM 502 6000	up to 13200	9

Accessories for Attaching Pallet Forks etc.



KM 460 03

Type	Description	Type of rotator	Weight (approx. lbs)
KM 460 03 KM 03 S	rigid suspension link with pin for all	KM 03	18
KM 460 03 KM 04 S	KINSHOFER shaft-type rotators	KM 04	22
KM 460 08 KM 03 S	rigid hook for all	KM 03	18
KM 460 08 KM 04 S	KINSHOFER shaft rotators	KM 04	20
KM 460 04 KM 04 S	non-rotating swinging hook for all	KM 04	26
KM 460 04 KM 06 S	KINSHOFER shaft rotators	KM 06	33
KM 460 10	non-rotating swinging hook for all KINSHOFER flange rotators	KM 10 F173 (KM 04 to KM 10)	55



KM 460 04

KM 505 - Quick Change System for Shaft-Type Rotators up to 4000 kg Load Capacity

The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect the quick couplings and disengage the locking device manually. The upper element of the quick change system is available for all KM 04 - shaft rotators. The KM 505 system allows the easy exchange between pallet fork and brick stack grapple for example - not suitable for heavy duty work.



Type	Description	Hole pattern of flange (in)	Self weight (lbs)
KM 505	complete, incl. hydraulic couplings (KM 204 01)	0.16 x Ø0.71 / □ 5.51	27
KM 505 01	upper element fitted to rotator incl. 2 mobile parts		11
KM 204 01	mobile part of hydraulic quick coupling (2 pieces) for KM 505 01		
KM 505 02	lower element mounted onto attachment	0.16 x Ø0.71 / □ 5.51	15
KM 505 03	rigid suspension link with non-rotating hook to connect to the KM 505 01		15



KM 505 01



KM 505 02



KM 505 03

KM 505 HD - Heavy Duty Quick Change System for Shaft-Type Rotators

The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect the quick couplings and disengage the locking device manually. The upper element of the heavy duty quick change system is available for the KINSHOFER shaft rotators KM 04 S68-30US or KM 06 S68-40. The KM 505 system allows the easy exchange between pallet fork and clamshell bucket for example - especially developed for the heavy duty task with clamshell buckets.



Type	Description	Hole pattern of flange (in)	Self weight (lbs)
KM 505 HD	complete, incl. hydraulic couplings (KM 204 01)	0.16 x Ø0.71 / □ 5.51	40
KM 505 01 HD	upper element HD fitted to rotator incl. 2 mobile parts		15
KM 204 01	mobile part of hydraulic quick coupling (2 pieces) for KM 505 01 HD		
KM 505 02 HD	lower element HD mounted onto attachment	0.16 x Ø0.71 / □ 5.51	24
KM 505 03 HD	rigid suspension link with non-rotating hook to connect to the KM 505 01 HD		31



KM 505 01 HD



KM 505 02 HD



KM 505 03 HD

KM 203 - Connecting Hoses & KM 204 - Hydraulic Quick Change Kit for Hoses



KM 203 01





Type	Description
KM 203 01	short connecting hoses between rotator and attachment with standard fittings M 18 x 1,5 (2 pieces)
KM 203 03	long connecting hoses between rotator and crane - please specify dimensions (4 pieces)



KM 204 03

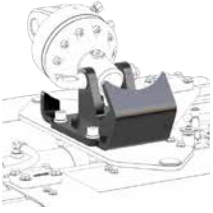


KM 204 01	mobile part of hydraulic quick coupling for hose (Ø 0.4 in, 2 pieces)
KM 204 02	fixed part of hydraulic quick coupling for rotator (Ø 0.4 in, 2 pieces)
KM 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pieces each) mounted with adapters to rotator

Compression Rails

Type	Description	Length (in)	Weight (lbs)
 KM 381 29	KM 381 29 720	28	37
	KM 381 29 1000	39	53
	KM 381 29 1250	49	62
 KM 381 39	KM 381 39 720	28	53
	KM 381 39 900	35	62
	KM 381 39 1000	39	73
	KM 381 39 1100	43	84
	KM 381 39 1200	47	88
	KM 381 39 1250	49	92
 KM 381 32	KM 381 32 1000	39	136
	KM 381 32 1250	49	167
 KM 391 09	KM 381 09 720	28	37
	KM 381 09 1000	39	51
	KM 381 09 1250	49	62
KM 381 38	adapter for clamping arms to take compression rails KM 381 09		88

Please note: additional lengths of compression rails are available on request

Others

Type	Description	Weight (lbs)
Non-Standard Opening Range: all grapples are available with opening ranges not listed. Call for details		
Non-Standard Plunge Depth: all grapples are available with plunge depth not listed. Call for details		
 KM 381 08	KM 381 08 tilting Device to reduce overall height of the equipment in transport	26
	for shaft rotators	40
 KM 381 18	KM 381 18 height Reduction Link to reduce the overall height of the equipment in transport - for	33
	flange rotators	
 KM 381 31	KM 381 05 height Stop for quick adjustment of plunge depth	18
	KM 381 06 spring Loaded Guide Rails for stabilizing the top layer of the stack	
	KM 381 07 spring Loaded Guide Plates for lateral stabilizing of the stack	
	KM 381 31 adapter for Concrete Pipes with diameters from 31.5 to 53.2 in	132

Accessories for Pallet Forks

KM 460 - Protection Trellis

For safer handling of bricks and other stacked goods or loose materials in higher elevation - max. capacity of 4400 lbs. The trellis can be mounted within minutes and is therefore a flexible system on the construction site.



Type	Dimensions (in)	Height (in)	Self weight (lbs)
KM 460 1100	43 x 43	59	150
KM 460 1300	51 x 51	59	175

Other dimensions available on request.

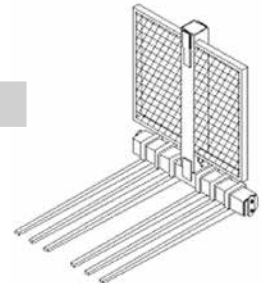
KM 460 01 - Protection Chain

For safer handling of loads as stone stacks (shrink wrapped) in higher elevation - max. capacity of 4400 lbs. Hooks on the crane fork are necessary for the use of protection chain.

Type	Length (in)	Self weight (lbs)
KM 460 01	20	9

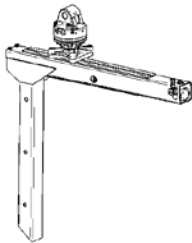
Backstop

Type	Description
KM 460 02	A backstop can be welded to the throat of a pallet fork as support for unbalanced loads



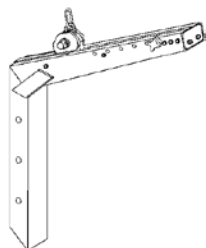
Different Methods for Center of Gravity Compensation

Hydraulic Shifting



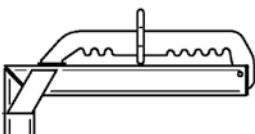
Hydraulic center of gravity compensation: the slide in the top arm is moved by a cylinder in an economic one-man-operation. In combination with a rotator, precise positioning is no problem.

Self Shifting



Spring loaded center of gravity compensation: self shifting slide in the top arm; travel can be preset depending on the center of gravity of load to be picked up. Compression springs return slide to initial position after load is removed.

Comb System



Mechanical center of gravity compensation: manual change of position of shifting collar by the operator. Suspension ring for crane hook or connection plate for use with flange rotator are available.