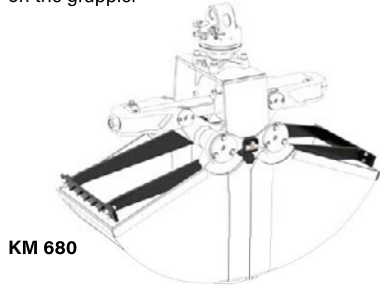


# Accessories for Clamshell Buckets

## 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

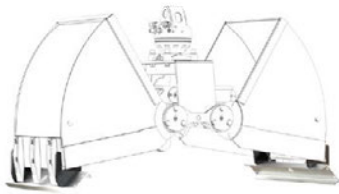
<b>KM 680 01</b>	KM 603/ 604/ 604HPX/ 605/ 605HPX/ 606/ 607
<b>KM 680 02</b>	KM 626HPX
<b>KM 505 04</b>	link-set for KM 604HPX/605HPX/626HPX in combination with KM 505 / KM 505 HD and scraper KM 680

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

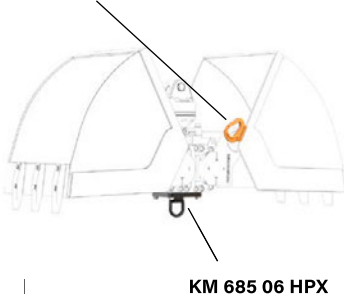
<b>KM 685 05</b>	adapters for compression rails
<b>KM 381 09 720</b>	compression rails – length 28 in long (2 pieces)
<b>KM 381 09 1000</b>	compression rails – length 39 in long (2 pieces)

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

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



central lifting device HPXdrive

### KM 685 06 hook



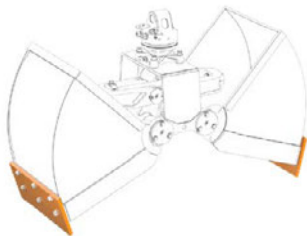
welded hook

### KM 685 06 eye (not with HPXdrive)



welded eye

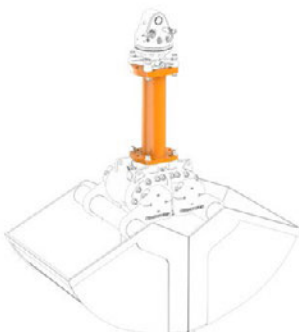
## KM 685 07 - Wear plates (2 pieces)



Type Description

<b>KM 685 07 set</b>	wear plates, 2 pieces, reversible, to protect horizontal cutting edges
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## KM 685 08 - Extension for excavating with HPXdrive



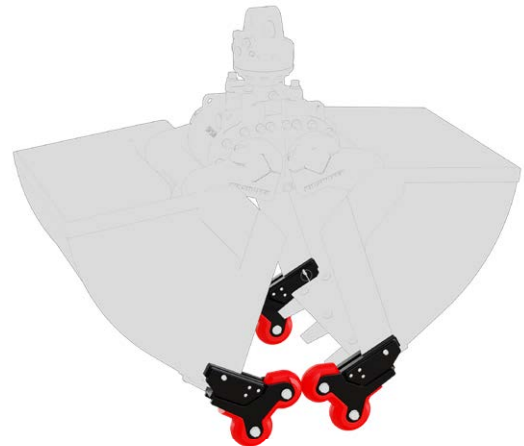
Type Description

<b>KM 685 08 HPX-450</b>	HPXdrive extension for excavating e.g. trenches (for canal and civil engineering) 17.7 in (66 lbs)
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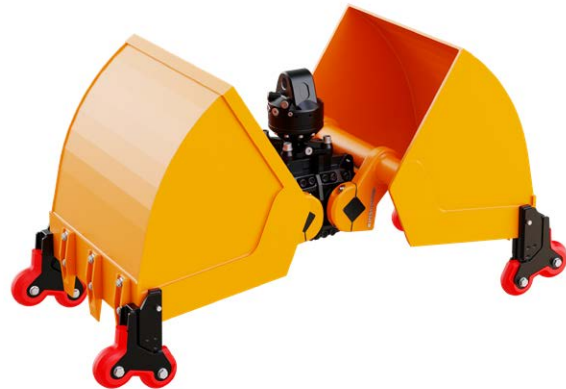
The device is simply attached to the bottom of the shells and you can grip concrete parts, curbs, etc. precisely, safely and without damage. The 4-Grip is simply plugged onto the grab shells and secured with a folding pin. The gripper teeth must not be removed, which significantly reduces assembly time.

Thanks to its special kinematics you can grab items not only when closing the shells but also when opening. Shaft rings can be loaded and unloaded fast and easy without damaging them!

- ▷ **Economic solution**, as it is only an accessory that increases the flexibility of your attachment.
- ▷ **Robuste design**.
- ▷ **Plastic compression rolls** avoid damage of the material to be gripped.
- ▷ **Fast and easy mounting and removal** on site.
- ▷ **Low additional weight**: only 62 lbs in total.
- ▷ **High load capacity of 1,980 lbs.**



**Precise gripping of very narrow objects**



**Careful gripping of plain, slippery surfaces**



**Safe inside gripping without retooling**



## 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 6,600	11
KM 501 4500	up to 9,900	22
KM 501 6000	up to 13,200	33
KM 501 10000	up to 22,000	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 9,900	33
KM 511 6000	up to 13,200	44
KM 511 10000	up to 22,000	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 6,600	4
KM 502 4500	up to 9,900	7
KM 502 6000	up to 13,200	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 8,800 lbs 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.



KM 505 01



KM 505 02



KM 505 03



### KM 505

Type	Description	Hole pattern of flange (in)	Self weight (lbs)
<b>KM 505</b>	complete, incl. hydraulic couplings (KM 204 03)	4 x Ø0.71 / □5.5	27
<b>KM 505 01</b>	upper element fitted to rotator incl. mobile and fixed parts		11
<b>KM 204 01</b>	mobile part of hydraulic quick coupling (2 pieces) for KM 505 01		
<b>KM 505 02</b>	lower element mounted to the attachment	4 x Ø0.71 / □5.5	15
<b>KM 505 03</b>	rigid suspension link with non-rotating hook to connect to the KM 505 01 (e.g. for pallet forks)		15
<b>KM 505 05</b>	distance ring between KM 505 and KM 461 universal fork		11

## 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.



KM 505 01 HD



KM 505 02 HD







KM 505 03 HD



### KM 505 HD




Type	Description	Hole pattern of flange (in)	Self weight (lbs)
<b>KM 505 HD</b>	complete, incl. hydraulic couplings (KM 204 03)	4 x Ø0.71 / □5.5	40
<b>KM 505 01 HD</b>	upper element HD fitted to rotator incl. mobile and fixed parts		15
<b>KM 204 01</b>	mobile part of hydraulic quick coupling (2 pieces) for KM 505 01 HD		
<b>KM 505 02 HD</b>	lower element HD mounted onto attachment	4 x Ø0.71 / □5.5	24
<b>KM 505 03 HD</b>	rigid suspension link with non-rotating hook to connect to the KM 505 01 HD (e.g. for pallet forks)		31
<b>KM 505 05</b>	distance ring between KM 505 HD and KM 461 universal fork		11

## 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 381 09	KM 381 09 720	28	37
	KM 381 09 1000	39	51
	KM 381 09 1250	49	62
KM 381 38	<b>adapter for clamping arms</b> to take compression rails KM 381 09		88

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

## Others

Type	Description	Weight (lbs)
<b>Non-Standard Opening Range:</b> all grapples are available with opening ranges not listed. Call for details		
<b>Non-Standard Plunge Depth:</b> all grapples are available with plunge depth not listed. Call for details		
 KM 381 08	<b>tilting Device</b> to reduce overall height of the equipment in transport	26
	for shaft rotators for flange rotators	40
 KM 381 18	<b>height Reduction Link</b> to reduce the overall height of the equipment in transport - for	33
	flange rotators	
 KM 381 31	<b>height Stop</b> for quick adjustment of plunge depth	18
	<b>spring Loaded Guide Rails</b> for stabilizing the top layer of the stack	
	<b>spring Loaded Guide Plates</b> for lateral stabilizing of the stack	
	<b>adapter for Concrete Pipes</b> 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 4,400 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)
<b>KM 460 1100</b>	43 x 43	59	150
<b>KM 460 1300</b>	51 x 51	59	175

Other dimensions available on request.

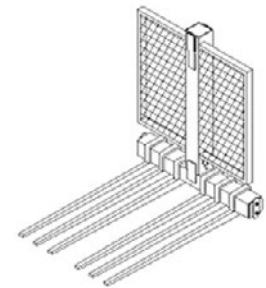
## KM 460 01 - Protection chain

For safer handling of loads as stone stacks (shrink wrapped) in higher elevation - max. capacity of 4,400 lbs. Hooks on the crane fork are necessary for the use of protection chain.

Type	Length (in)	Self weight (lbs)
<b>KM 460 01</b>	20	9

## Backstop

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



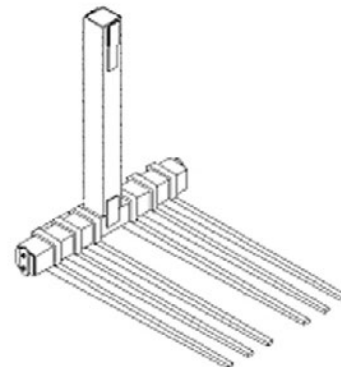
# Different Styles of Manually Adjustable Tines

Depending on the requirements of the pallet fork there are different styles of manually adjustable tines.

Type	Description	Number of tines	Dimensions width (in)	Height (in)
<b>A</b>	<b>Standard</b>	2	4	1.50
<b>B</b>	<b>Block</b> 6 tines instead of 2 tines	6	2	1.50
<b>C</b>	<b>Offset</b> bracket is welded to the tine back in an offset of 6 in to the lower end of the tine	2	4	1.50
<b>D</b>	<b>Roofers</b> thinner tines with lower load capacity	2	4	1.25







**Type C:**  
offset tines make it easier to slide out of the pallet especially on rough terrain



**Type B:**  
block tines for wrapped blocks without pallet

**Note: "Stub tines" with an active length of 39 in are available on request**

## 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 381 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)
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**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	for shaft rotators	26
		for flange rotators	40



KM 381 18

KM 381 18	height Reduction Link to reduce the overall height of the equipment in transport - for flange rotators	33
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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