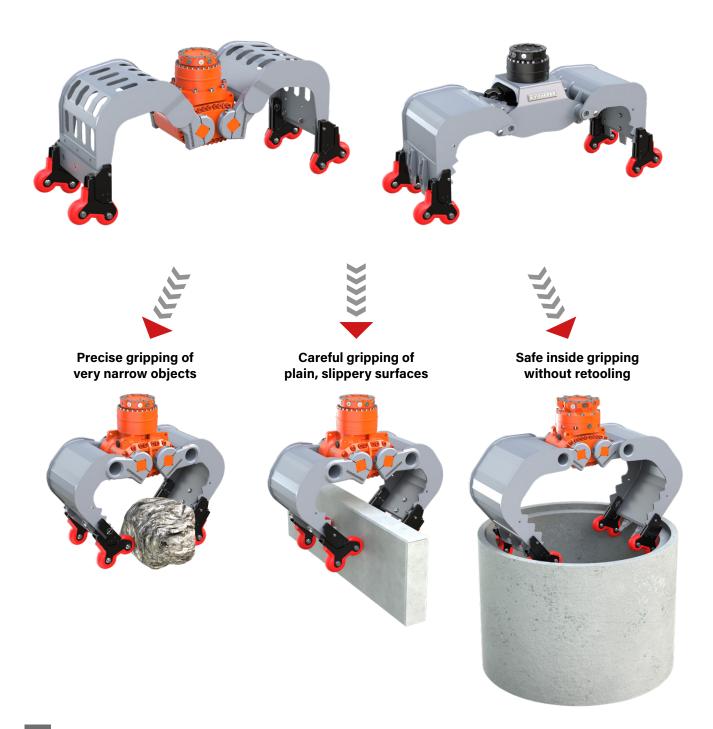
4-Grip for D- and A-Grab Series up to 9t / 19800lbs

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.
- Robust design.
- ▷ Plastic compression rolls avoid damage of the material to be gripped.
- > Fast and easy mounting and removal on site.
- ▷ Low additional weight: only 28kg/61.6lbs in total.
- ▶ High load capacity of 750kg/1650lbs.





KM 685 05-D-A

Additional and Small Parts

4-grip for D04/A04 grabs (load capacity max. 750kg/1650lbs).
Specify grab type when ordering
4-grip for D06/D09 and A06/A09 grabs (load capacity max. 750kg / 1650lbs).
Specify grab type when ordering

Accessories



Туре

KM 685 05-D04-A04

KM 685 05-D06/09-A06/09

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KM 685 05E*	adapter for compression rais for C-grabs (load capacity max. 250kg/550lbs). Specify grab type when ordering
KM 381 09 (720)	compression rails, 720mm / 28.3in length
KM 381 09 (1000)	compression rails, 1000mm / 39.3in length

Description



KM 680 1t-4t*	scraper
KM 680 5t-8t*	scraper
KM 680 9t-12t*	scraper
KM 680 C12/18VE*	scraper



KM 685 06E hook	welded hook
KM 685 06E hook set 2	welded hooks, set with 2 pieces

wear plate set to protect cutting edges



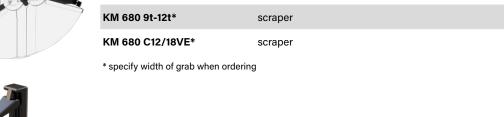
KM 685 08 HPX-450E	digging extension for general construction length: 450mm / 17.7in; weight: 60kg / 132lbs
	solenoil valve for additional oil circuit, up to 26MPa (260bar) / 3770psi,
KM 980-2 2t-8t c	incl. parts and mounting



KM 685 09E-A02-A09

KM 685 07E set

bolt-on side plates for A04 to A09-grabs (Specify grab type when ordering)



Additional and Small Parts

Accessories

KM 680 C12/18VE*	scraper
KM 680 C25VE*	scraper
KM 680 C30V*	scraper
KM 680 C40VHD*	scraper
KM 680 C60VHD*	scraper

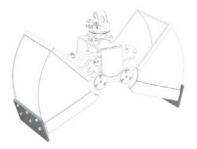
* specify width of grab when ordering

Туре



KM 685 06E hook	welded hook
KM 685 06E hook set 2	welded hooks, set with 2 pieces

Description



KM 685 07E set wea	r plate set to protect cutting edges
KM 685 07>19t set wea	r plate set to protect cutting edges

 KM 685 09E
 bolt-on side plates (specify grab type when ordering)

 KM 685 10
 backwall to load fine grained goods

KM 980-2 2t-8t csolenoil valve for additional oil circuit,
up to 26MPa (260 bar/ 3770psi), incl. parts and mounting

unlockable flip switch (hold to run)





KHS Control

Installations sets for hydraulic quick couplers and tilt couplers

Туре	Description
KHS01L installation set safety	incl. KHS Control unit
KHS01L installation set basic	incl. unlockable flip switch (hold to run)
KHS03L installation set safety	incl. KHS Control unit
KHS03L installation set basic	incl. unlockable flip switch (hold to run)
KHS08L installation set safety	incl. KHS Control unit
KHS08L installation set basic	incl. unlockable flip switch (hold to run)

Non-return valve sets for hydraulic tilt couplers TC

Туре	Description
TC02-180 NRV	non-return valve set for TC02
TC03-180 NRV	non-return valve set for TC03
TC05-180 NRV	non-return valve set for TC05
TC07-180 NRV	non-return valve set for TC07
TC10-180 NRV	non-return valve set for TC10
TC14-180 NRV	non-return valve set for TC14



Load hook for quick couplers and tilt couplers

Туре	Description
KM 685 06 KSW01 hook	load hook for system L-Lock (1t / 2200lbs load capacity)
KM 685 06 KSW03 hook	load hook for system L-Lock (3t / 6600lbs load capacity)
KM 685 06 KSW08 hook	load hook for system L-Lock (5t / 11000lbs load capacity)



Sockets for mechanic quick couplers and tilt couplers

1	Туре	Description
	KMS01L socket	socket for mechanical System L-Lock (KMS01)
	KMS03L socket	socket for mechanical System L-Lock (KMS03)
	KMS08L socket	socket for mechanical System L-Lock (KMS08) and S-Lock

KMS08L socket

Quick coupling adapters for System L-Lock

Туре	Description
KSW01 rigid	bolt-on adapter
KSW01 cardanic	adapter for cardanic suspension incl. suspension, w/o pendulum damper
KSW03 rigid	bolt-on adapter
KSW03 cardanic	adapter for cardanic suspension incl. suspension, w/o pendulum damper
KSW08 rigid	bolt-on adapter
KSW08 cardanic	adapter for cardanic suspension incl. suspension, w/o pendulum damper

unlockable flip switch (hold to run)





KHS Control

Installations sets for hydraulic quick couplers and tilt couplers

Туре	Description
KHS08L installation set safety KHS08L installation set basic	incl. KHS Control unit incl. unlockable flip switch (hold to run)
KHS10L installation set safety	incl. KHS Control unit
KHS10L installation set basic	incl. unlockable flip switch (hold to run)
KHS21L installation set safety	incl. KHS Control unit
KHS21L installation set basic	incl. unlockable flip switch (hold to run)
KHS25L installation set safety	incl. KHS Control unit
KHS25L installation set basic	incl. unlockable flip switch (hold to run)



Locking sensor for hydraulic quick couplers and tilt couplers with System L-Lock

Туре	Description
KHS-L-Sensor	2 sensors support the secure locking, only in combination with KHS10-25L installation set sensor
KHS10-25L installation set sensor	KHS-L installation set safety including cable loom for quick coupler sensors

non-return valve set for TC14-140

non-return valve set for TC19-140 non-return valve set for TC23-140

Non-return valve sets for hydraulic tilt couplers TC

Description

F	Туре			
	TC14-140 NRV			
	TC19-140 NRV			
	TC23-140 NRV			
ar an				



Load hook for quick couplers and tilt couplers

Туре	Description
KM 685 06 KSW10 hook	load hook (8t/17600lbs load capacity)
KM 685 06 KSW21 hook	load hook (10t/22000lbs load capacity)
KM 685 06 KSW25 hook	load hook (18t/39600lbs load capacity)

Sockets for mechanic quick couplers and tilt couplers

Туре	Description
KMS10L socket	socket for mechanical System L-Lock (KMS10L)
KMS21/25L socket	socket for mechanical System L-Lock (KMS21L/KMS25L)
KMS08L socket	socket for mechanical System L-Lock (KMS08) and S-Lock

Quick coupling adapters for System L-Lock

Туре	Description
KSW10 rigid	bolt-on adapter
KSW10 cardanic	adapter for cardanic suspension incl. suspension, w/o pendulum damper
KSW21/25 rigid	bolt-on adapter
KSW21/25 cardanic	adapter for cardanic suspension incl. suspension, w/o pendulum damper

Torque Meter / Alignment Monitor



Torque Meter

Applying the correct torque during the installation of screw piles is paramount to ensure the structure is safely secured. Receiving data of real-time applied torque which is accurate up to 99.7% for this critical procedure is made easy with this new auger torque device. The torque meter is simply attached between the mounting bracket and the earth drill hood pin. The device is able to measure torque values up to 25000Nm / 18437.5 ft.lbs and the software can be installed to run from the customer's own laptop if preferred.

Туре	Torque range	Height	Diameter	Weight	Pin	For
	(Nm/ ft.lbs)	(mm/in)	(mm/in)	(kg/lbs)	(Ø mm/in)	earth drills / torque heads
TM25	5000-25000 / 3687.5-18437.5	430 / 16.9	270 / 10.6	59 / 129.8	45 / 1.8	15000MAX - 25000MAX

Standard Software

Microsoft Office Mobile; Word Mobile; Excel Mobile; PowerPoint Mobile; Pocket OneNote; Outlook Mobile; Windows Media Player; Microsoft Pictures and Videos; Internet Explorer Mobile; Adobe Reader LE; Contacts / Calendar; Calculator Notes / Tasks; Online help

Alignment Monitor

At foundation drilling and screw piling a correct alignment is essential. From the drivers' cabin and at deeper drills it is not possible to see if the earth drill is still in a correct vertical position. The alignment monitor has been developed especially to solve this known problem. Thanks to the sensor which is mounted to the earth drill and the display in the drivers' cabin, the operater can supervise the drilling procedur exactly and correct each deviation immediately.

The tool is compatible to all earth drill types and can be switched on and off. The compact as well bright LED-display can be installed easily to the drivers' cabine. The sensibility of the equipment can be fitted to the current application.

Due to its water-resistance, the sensor is suitable for all weather conditions. 12V up to 24V operating range.

