

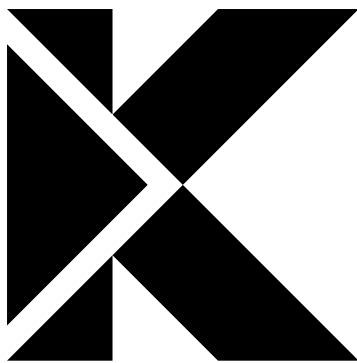


Class 12 - 37t *26,400 - 81,400lbs* **Attachments for Excavators**

General Construction
Demolition
Forestry
Utilities, Oil and Gas
Recycling & Waste Management



2024-V1



KINSHOFER
GROUP COMPANY



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Contents

	page
Quick Couplers up to 34t / 74,800lbs	
Mechanic and hydraulic Quick Couplers System L-Lock	5
Mechanic and hydraulic Quick Couplers System S-Lock	6
Tilt Couplers up to 23t / 50,600lbs	
Mechanic and hydraulic Tilt Couplers System System L-Lock	7 et seq
Mechanic and hydraulic Tilt Couplers System System S-Lock	9
Rotary Couplers up to 33t / 72,600lbs	
Rotary Couplers System System L-Lock	10
Rotary Couplers System System S-Lock	11
Additional accessories for Quick Couplers & Tilt Couplers	12
noX Tiltrotators up to 25t / 55,000lbs	
13 et seq	
Attachments for noX Tiltrotators	
Multi Purpose Grabs with hydraulic cylinder: A-Series	16
Demolition and Sorting Grabs with hydraulic cylinder: D-Series	17
C-VE Shell Exchange System	18
Clamshell Buckets with shell exchange system and hydraulic cylinder: C-Series	19
Fork Tines: GAF, GAH	20
Levelling Bar: AVB	21
Compactor Wheel: KRC	22
Grading Bucket: SKP	23
Cable Bucket: SKK	24
Buckets up to 35t / 77,000lbs	
General Bucket: GB-L	25
Ditch Cleaning Bucket: DC-L	26
Tilt Bucket with hydraulic cylinder: TB-L	26
Screening Bucket: VMS	27
Multi Purpose Grabs up to 27t / 59,400lbs: A15H / A20H / A27H	
28	
Barrier Lifter up to 27t / 59,400lbs: KM 932MB	
29	
Demolition and Sorting Grabs up to 50t / 110,000lbs	
up to 37t/81,400lbs operating weight with cylinder and perforated shells: D15H-P, D20H-P, D24H-P, D27H-P, D37H-P	30
up to 37t/81,400lbs operating weight with integrated quick change adapter: D20H-P-OQ to D37H-P-OQ	31
up to 50t/110,000lbs operating weight Heavy Duty with perforated shells: D15H-P HD to D40H-P HD	32
Mounting Options for Hydraulic Attachments - rigid mount	33 et seq
Clamshell Buckets up to 25t / 55,000lbs	
C-VE Shell Exchange System	35
up to 25t/55,000lbs operating weight with hydraulic cylinder and exchangeable shells: C18VE, C25VE	36 et seq
Re-handling Clamshell Buckets up to 40t / 88,000lbs	
up to 30t/66,000lbs operating weight with hydraulic cylinder: C30V	39
up to 40t/88,000lbs operating weight with hydraulic cylinder: C40VHD	40
Mounting Options for Hydraulic Attachments - cardanic mount	41
Additional and Small Parts	42
Timber Grabs up to 40t / 88,000lbs	
up to 27t/59,400lbs operating weight with hydraulic cylinder: D15H-T, D20H-T, D27H-T	43
up to 30t/66,000lbs operating weight with hydraulic cylinder: T20V, T30V	44 et seq
up to 40t/88,000lbs operating weight with hydraulic cylinder: T40VHD	46
Mulchers up to 20t / 44,000lbs	
Universal Mulcher up to 15t/33,000lbs operating weight: KUM4	47
Forestry Mulcher up to 20t/44,000lbs operating weight: KFM-Series	48
Rock Grabs up to 40t / 88,000lbs: R20H / R27H / R40H	
49	

Catalog valid from January 01, 2024

Contents

	page
Orange Peel Grabs up to 40t / 88,000lbs	
up to 22t/48,400lbs operating weight with hydraulic cylinder: P22V	50
up to 25t/55,000lbs operating weight with hydraulic cylinder (rigid mount): P25VR HD	51
up to 40t/88,000lbs operating weight with hydraulic cylinder: P30VHD, P40VHD	52 et seq
Mounting Options for Hydraulic Attachments - cardanic mount	55
Demolition and Scrap Shears up to 70t / 154,000lbs	
Multi-Quick Processors with exchangeable jaws up to 50t/110,000lbs operating weight: MQP	56 et seq
Rotating Shears up to 50t/110,000lbs operating weight: DLC, DLD, DLP / DRC, DRD, DRP	58 et seq
Mobile Scrap Shears up to 70t/154,000lbs operating weight: DXS	61
Concrete Shears up to 45t/99,000lbs operating weight: DCC	62
Pulverisers up to 50t/110,000lbs operating weight: DSP, DSP-R	63 et seq
Earth Drills and Torque Heads up to 50t / 110,000lbs	
Earth Drills up to 22t/48,400lbs operating weight: 15000MAX, 20000MAX, 25000MAX and S6 Augers	65 et seq
Earth Drills up to 45t/99,000lbs operating weight: 35000MAX, 42000MAX, 65000MAX and PA Augers	67 et seq
Torque Heads up to 50t/110,000lbs operating weight: 100000MAX, 150000MAX	69
Accessories and mounting options for Earth Drills and Torque Heads	70 et seq
Cable Ploughs up to 20t / 44,000lbs: KPF, KPH	72
Hydraulic Breakers and Accessories up to 40t / 88,000lbs: KFX	73 et seq
Mounting Options for Hydraulic Attachments - rigid mount	75 et seq
Rotators	77
Contact	78

Catalog valid from January 01, 2024

Quick Couplers System L-Lock 10-34t / 22,000-74,800lbs

KMS-L / KHS-L

The L-Lock System was designed to be fully compatible with the known and in nationally adopted Lehnhoff adapters. For maximum reliability, all contact surfaces of the L-Lock quick couplers are machined and therefore lock safely and without unwanted play or movement. The hydraulic versions are equipped with drop stop claws for additional safety.

here with load hook and drop stop claws

- KMS-L with mechanic locking system.
- KHS-L with hydraulic locking system.
- Safe mechanic or hydraulic locking available.
- Use of robust and durable cast housings.
- Fully compatible with the original quick coupler systems or standards.
- All hydraulic quick couplers system L-Lock are equipped with drop stop claws as standard! The Kinshofer quick coupler systems thus fully comply with all applicable national and international standards and regulations, including Machinery Directive 2006/42/EG, DIN EN 474-1, ISO13031 and SUVA.



The hydraulic KHS+ quick couplers are characterized by a very high safety standard. The drop stop (extended quick coupler claw) prevents the attachment from falling down if the quick coupler lock is accidentally not locked properly. To further increase safety, the KHS+ quick coupler has also been equipped with two sensors that reliably indicate proper locking. The KHS+ couplers fully comply with all applicable national and international standards and regulations, including Machinery Directive 2006/42/EG, DIN EN 474-1, ISO13031 and SUVA.

Mechanic Quick Couplers KMS-L			
Type	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
KMS10L	mechanic	170 / 374	10 - 19 / 22,000 - 41,800
KMS21L	mechanic	270 / 594	19 - 28 / 41,800 - 61,600
KMS25L	mechanic	360 / 792	26 - 34 / 57,200 - 74,800

Package consists of: mechanic quick coupler, socket

Hydraulic Quick Couplers KHS-L (including drop stop)			
Type	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
KHS10L	hydraulic	170 / 374	10 - 19 / 22,000 - 41,800
KHS21L	hydraulic	270 / 594	19 - 28 / 41,800 - 61,600
KHS25L	hydraulic	360 / 792	26 - 34 / 57,200 - 74,800

Package consists of: hydraulic quick coupler with drop stop claws

Hydraulic Quick Couplers KHS-L+ (including drop stop & sensors)				
Type	Locking	Weight (kg/lbs)	Suitable adapter	Operating weight (t/lbs)
KHS10L+	hydraulic	174 / 385	KSW10	10 - 19 / 22,000 - 41,800
KHS21L+	hydraulic	279 / 614	KSW21	19 - 28 / 41,800 - 61,600
KHS25L+	hydraulic	369 / 812	KSW25	26 - 34 / 57,200 - 74,800

Package consists of: hydraulic quick coupler with drop stop claws, KHS10-25L installation set sensor, KHS-L-Sensor



KHS21L+ here with hook



Requirements of carrier machine for KHS-L	
Operating pressure (to be set at excavator):	210 - 300bar / 3,040 - 4,350psi
Hydraulic system:	one double-acting hydraulic circuit
Note:	excavator needs to be equipped with quick coupler control.

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Quick Couplers System S-Lock 10-30t / 22,000-66,000lbs

KMS-S / KHS-S

The S-Lock System was designed to be fully compatible with the internationally adopted S-Standard adapters. In addition to a specially engineered, centrally located locking mechanism, the S-Lock coupler features a second locking mechanism at the front pin, providing a twin lock system for maximum safety.

- KMS-S with mechanic locking system.
- KHS-S with hydraulic locking system.
- Safe mechanic or hydraulic locking available.
- Use of robust and durable cast housings.
- Fully compatible with the original quick coupler systems or standards.



Mechanic Quick Couplers KMS-S

Type	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
KMS60S	mechanic	181 / 398	10 - 18 / 22,000 - 39,600
KMS70S	mechanic	298 / 656	18 - 30 / 39,600 - 66,000

Package consists of: mechanic quick coupler, socket

Hydraulic Quick Couplers KHS-S

Type	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
KHS60S	hydraulic	183 / 403	10 - 18 / 22,000 - 39,600
KHS70S	hydraulic	300 / 660	18 - 30 / 39,600 - 66,000

Package consists of: hydraulic quick coupler

Installation sets for hydraulic Quick Couplers KHS-S

Type	Description
KHS03L HD-KHS08L installation set safety	incl. KHS Control unit
KHS03L HD-KHS08L installation set basic	incl. unlockable flip switch

Accessories

Type	Description
KM 685 06 KSW10 hook	load hook (8t / 17,600lbs load capacity) for KMS/KHS60S
KM 685 06 KSW21 hook	load hook (10t / 22,000lbs load capacity) for KMS/KHS70S

Requirements of carrier machine for KHS-S

Operating pressure:	160 - 300 bar / 2,320 - 4,350 psi (to be set at excavator)
Hydraulic system:	one double-acting hydraulic circuit with safety switch (permanent pressure close)
Note:	excavator needs to be equipped with quick coupler control.

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Tilt Couplers System L-Lock 8.6-23t / 18,920-50,600lbs

TC L-Lock

The Kinshofer TC Tilt Couplers provide a tilting angle of up to 140°, increasing the flexibility and efficiency of all attachments to a maximum. Compatible with quick coupling system L-Lock. The hydraulic versions are equipped with drop stop claws for additional safety.

- All hydraulic quick couplers system L-Lock are equipped with drop stop claws as standard! The Kinshofer quick coupler systems thus fully comply with all applicable national and international standards and regulations, including Machinery Directive 2006/42/EG, DIN EN 474-1, ISO13031 and SUVA.
- **Counter-balance valve** mounted to the motor **retains a secure position** for the tilt coupler across the angle.
- Compact design, **no cylinder**.
- **More flexibility.**
- **Low height** – thus **high breakaway force**.
- **Low maintenance.**
- **Non-return valve set** is **optionally** available.



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Mechanic Tilt Couplers TC KMS-L

Type	Rotary drive	Tilt angle	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
TC14-140 KMS10L	RA14	2 x 70°	mechanic	315 / 693	8.6 - 14 / 18,920 - 30,800
TC19-140 KMS10L	RA19	2 x 70°	mechanic	470 / 1,034	12.1 - 19 / 26,620 - 41,800
TC23-140 KMS21L	RA23	2 x 70°	mechanic	630 / 1,386	16.7 - 23 / 36,740 - 50,600

Package consists of: upper bracket, rotary drive, mechanic quick coupler, socket

Hydraulic Tilt Couplers TC KHS-L (incl. drop stop)

Type	Rotary drive	Tilt angle	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
TC14-140 KHS10L	RA14	2 x 70°	hydraulic	315 / 693	8.6 - 14 / 18,920 - 30,800
TC19-140 KHS10L	RA19	2 x 70°	hydraulic	470 / 1,034	12.1 - 19 / 26,620 - 41,800
TC23-140 KHS21L	RA23	2 x 70°	hydraulic	630 / 1,386	16.7 - 23 / 36,740 - 50,600

Package consists of: upper bracket, rotary drive, hydraulic quick coupler with drop stop claws

Installation sets for hydraulic Tilt Couplers TC KHS-L

Type	Description
KHS10L installation set safety	incl. KHS Control unit
KHS10L installation set basic	incl. unlockable flip switch
KHS21L installation set safety	incl. KHS Control unit
KHS21L installation set basic	incl. unlockable flip switch
TC14-140 NRV	non-return valve kit for TC14-140
TC19-140 NRV	non-return valve kit for TC19-140
TC23-140 NRV	non-return valve kit for TC23-140

Quick change adapters for KMS-L / KHS-L

Type	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

Accessories

Type	Description
KM 685 06 KSW10 hook	load hook (8t/17,600lbs load capacity)
KMS10L socket	socket
KM 685 06 KSW21 hook	load hook (10t/22,000lbs load capacity)
KMS21/25L socket	socket

Requirements of carrier machine for TC KHS-L

	Quick Coupler	Rotary Drive
Hydraulic system:	one double acting hydraulic circuit	one double acting hydraulic circuit
Operating pressure:	210 - 300 bar / 3,040 - 4,350 psi (to be set at excavator)	250 bar / 3,620 psi (to be set at excavator)
Pump capacity:	TC14: 10 - 28 l/min / 2.5 - 7.4 GPM TC19/TC23: 20 - 40 l/min / 5.0 - 10.5 GPM	TC14: 10 - 28 l/min / 2.5 - 7.4 GPM TC19/TC23: 20 - 40 l/min / 5.0 - 10.5 GPM
Note:	excavator needs to be equipped with quick coupler control.	

The TC L-Lock+ tilt couplers are characterized by a very high safety standard. The drop stop (extended quick coupler claw) prevents the attachment from falling down if the quick coupler lock is accidentally not closed properly, despite visual indication or warning signal. The newly developed indicator pin shows on the one hand the locking status when the bolts are in/out and on the other hand also when the locking bolts are above the approved range.

- **Drop Stop:** The quick coupler claw curls around the front pin of the quick change adaptor and prevents the attachment from unintentional disengagement.
- **Enormous safety:** Indicator pin shows only one correct condition of the coupling process and is independent of sensors or electronics.
- **Fully comply with all applicable national and international standards and regulations, including Machinery Directive 2006/42/EG, DIN EN 474-1, ISO13031 and SUVA**
- **Optionally available:** a double unlockable non-return valve mounted to the motor provides a safe position of the TC tilt coupler across all angles.



here with load hook

Hydraulic Tilt Couplers TC KHS-L+ (including drop stop & sensors)

Type	Rotary drive	Tilt angle	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
TC14-140 KHS10L+	RA14	2 x 70°	hydraulic	319 / 702	8.6 - 14 / 18,920 - 30,800
TC19-140 KHS10L+	RA19	2 x 70°	hydraulic	479 / 1,054	12.1 - 19 / 26,620 - 41,800
TC23-140 KHS21L+	RA23	2 x 70°	hydraulic	639 / 1,406	16.7 - 23 / 36,740 - 50,600

Package consists of: upper bracket, rotary drive, hydraulic quick coupler, drop stop claws, KHS10-25L installation set sensor, KHS-L-Sensor

Requirements of carrier machine for TC KHS-L+

	Quick Coupler	Rotary Drive
Hydraulic system:	one double acting hydraulic circuit	one double acting hydraulic circuit
Operating pressure:	210 - 300 bar / 3,040 - 4,350 psi (to be set at excavator)	250 bar / 3,620 psi (to be set at excavator)
Pump capacity:	TC14: 10 - 28 l/min / 2.5 - 7.4 GPM TC19/TC23: 20 - 40 l/min / 5.0 - 10.5 GPM	TC14: 10 - 28 l/min / 2.5 - 7.4 GPM TC19/TC23: 20 - 40 l/min / 5.0 - 10.5 GPM
Note:	excavator needs to be equipped with quick coupler control.	

Drop Stop
locked



Drop Stop
unlocked

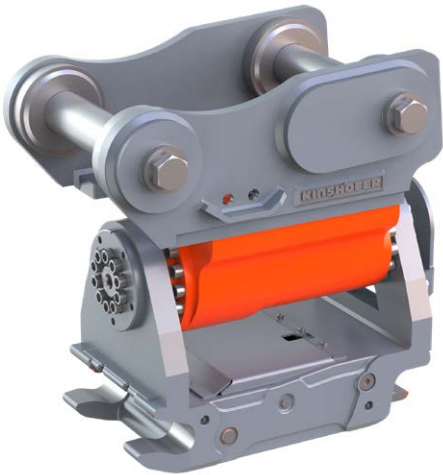


Tilt Couplers System S-Lock 8.6-23t / 18,920-50,600lbs

TC S-Lock

The Kinshofer TC Tilt Couplers provide a tilting angle of up to 140°, increasing the flexibility and efficiency of all attachments to a maximum. Compatible with quick coupling system S-Lock.

- Counter-balance valve mounted to the motor retains a secure position for the tilt coupler across the angle.
- Compact design, no cylinder.
- More flexibility.
- Low height – thus high breakaway force.
- Low maintenance.
- Non-return valve set is optionally available.



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Mechanic Tilt Couplers TC KMS-S

Type	Rotary drive	Tilt angle	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
TC14-140 KMS60S	RA14	2 x 70°	mechanic	223 / 491	8.6 - 14.0 / 18,920 - 30,800
TC19-140 KMS60S	RA19	2 x 70°	mechanic	415 / 913	12.1 - 19.0 / 26,620 - 41,800
TC23-140 KMS70S	RA23	2 x 70°	mechanic	575 / 1,265	16.7 - 23.0 / 36,740 - 50,600

Package consists of: upper bracket, rotary drive, mechanic quick coupler, socket

Hydraulic Tilt Couplers TC KHS-S

Type	Rotary drive	Tilt angle	Locking	Weight (kg/lbs)	Operating weight (t/lbs)
TC14-140 KHS60S	RA14	2 x 70°	hydraulic	223 / 491	8.6 - 14.0 / 18,920 - 30,800
TC19-140 KHS60S	RA19	2 x 70°	hydraulic	415 / 913	12.1 - 19.0 / 26,620 - 41,800
TC23-140 KHS70S	RA23	2 x 70°	hydraulic	575 / 1,265	16.7 - 23.0 / 36,740 - 50,600

Package consists of: upper bracket, rotary drive, hydraulic quick coupler

Installation sets for hydraulic Tilt Couplers TC KHS-S

Type	Description
KHS03L HD-KHS08L installation set safety	incl. KHS Control unit
KHS03L HD-KHS08L installation set basic	incl. unlockable flip switch

Accessories

Type	Description
KM 685 06 KSW10 hook	load hook (8t/17,600lbs load capacity) for TC KMS/KHS60S
KM 685 06 KSW21 hook	load hook (10t/22,000lbs load capacity) for TC KMS/KHS70S
TC14-140 NRV	non-return valve kit for TC14-140
TC19-140 NRV	non-return valve kit for TC19-140
TC23-140 NRV	non-return valve kit for TC23-140

Requirements of carrier machine for TC KHS-S

	Quick Coupler	Rotary Drive
Hydraulic system:	one double-acting hydraulic circuit with safety switch (permanent pressure close)	one double acting hydraulic circuit
Operating pressure:	160 - 300 bar / 2,320 - 4,350 psi	210 - 310 bar / 3,040 - 4,500 psi
Pump capacity:	-	TC14: 16 - 28 l/min / 4.2 - 7.4 GPM TC23: 35 - 35 l/min / 9.3 - 9.3 GPM
Note:	excavator needs to be equipped with quick coupler control.	

Rotary Couplers System L-Lock 10-33t / 22,000-72,600lbs

RC L-Lock

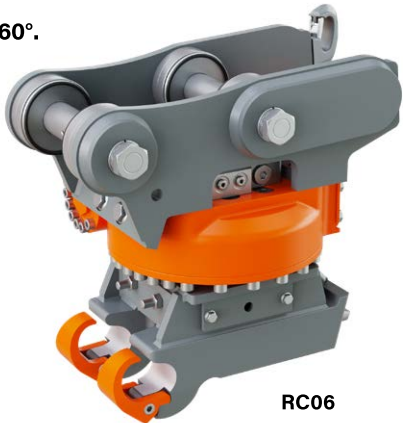
With the compact RC rotary coupler you increase the freedom of movement in the entire working area of the excavator. Thanks to the robust and low construction (it is firmly bolted to the boom), the maximum breakaway and ripping forces are achieved.

In addition to the usual movement, each attachment can be endlessly rotated by 360°. This enables more flexible and faster work without moving the excavator.

The newly gained freedom of movement allows work to be carried out more precisely, which saves additional manual work steps.

Here in combination with the proven L-Lock quick coupling system.

- All hydraulic quick couplers system L-Lock are equipped with drop stop claws as standard! The Kinshofer quick coupler systems thus fully comply with all applicable national and international standards and regulations, including Machinery Directive 2006/42/EG, DIN EN 474-1, ISO13031 and SUVA.
- Compact and low design.
- More flexibility due to 360° rotation.
- Low height – thus high breakaway force.
- Low maintenance.
- Lower quick coupler with mechanic or hydraulic locking available.



RC06

Mechanic Rotary Couplers RC KMS-L

Type	Width A (mm/in)	Width B (mm/in)	Height C* (mm/in)	Weight* (from kg/lbs)	Rotations/min (@l/min / @GPM)	Torque** (kNm/ft.lb)	Operating weight (t/lbs)
RC19 KMS10L	243 / 9.5	233 / 9.1	186 / 7.3	299 / 658	8.5@50 / @13.2	12 / 8,850	14 - 19 / 30,800 - 41,800
RC25 KMS21L	265 / 10.4	265 / 10.4	220 / 8.7	405 / 891	8.5@60 / @15.9	15 / 11,063	19 - 25 / 41,800 - 55,000
RC33 KMS25L	-	-	-	-	-	-	25 - 33 / 55,000 - 72,600

*w/o quick coupler and upper bracket; **@360° constant

Package consists of: upper bracket, rotation drive, mechanic quick coupler, socket

Hydraulic Rotary Couplers RC KHS-L (with drop stop claws)

Type	Width A (mm/in)	Width B (mm/in)	Height C* (mm/in)	Weight* (from kg/lbs)	Rotations/min (@l/min / @GPM)	Torque** (kNm/ft.lb)	Operating weight (t/lbs)
RC19 KHS10L	243 / 9.5	233 / 9.1	186 / 7.3	299 / 658	8.5@50 / @13.2	12 / 8,850	14 - 19 / 30,800 - 41,800
RC25 KHS21L	265 / 10.4	265 / 10.4	220 / 8.7	405 / 891	8.5@60 / @15.9	15 / 11,063	19 - 25 / 41,800 - 55,000
RC33 KHS25L	-	-	-	-	-	-	25 - 33 / 55,000 - 72,600

*w/o quick coupler and upper bracket; **@360° constant

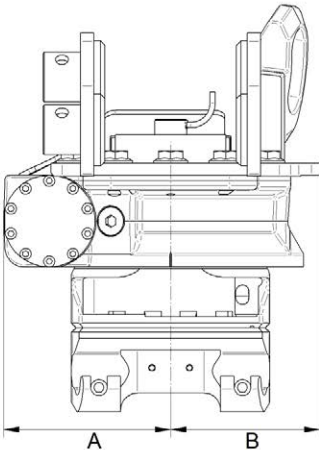
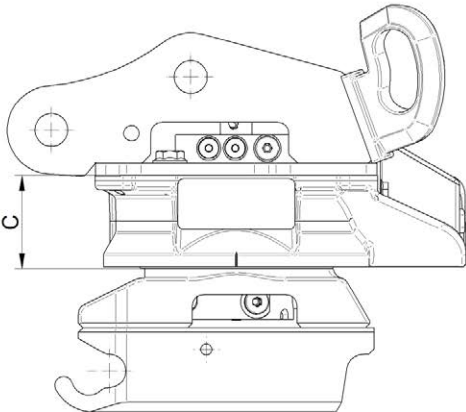
Package consists of: upper bracket, rotation drive, hydraulic quick coupler with drop stop claws

Technical data and hydraulics RC

Type	Breakout force max. (ISO) (kN/kNm / lbf/ft.lb)	Bucket width max. (mm/in)	Recommended oil flow rotate (l/min / GPM)	Hydraulic pressure rotate max. (bar/psi)
RC19	150/200 / 33,000/147,500	1,800 / 70.8	40 - 50 / 10.6 - 13.2	250 / 3,600
RC25	170/250 / 37,400/184,375	2,000 / 78.7	50 - 60 / 13.2 - 15.9	250 / 3,600
RC33	205/330 / 45,100/243,375	2,200 / 86.6	60 - 80 / 15.9 - 21.1	250 / 3,600

Requirements of carrier machine for RC KHS-L

	Quick coupler	Rotation drive
Hydraulic system:	one double acting hydraulic circuit	one double acting hydraulic circuit
Note:	excavator needs to be equipped with quick coupler control	



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With the compact RC rotary coupler you increase the freedom of movement in the entire working area of the excavator. Thanks to the robust and low construction (it is firmly bolted to the boom), the maximum breakaway and ripping forces are achieved.

In addition to the usual movement, each attachment can be endlessly rotated by 360°. This enables more flexible and faster work without moving the excavator. The newly gained freedom of movement allows work to be carried out more precisely, which saves additional manual work steps.

Here in combination with the proven S-Lock quick coupling system.

- ▷ Compact and low design.
- ▷ More flexibility due to 360° rotation.
- ▷ Low height – thus high breakaway force.
- ▷ Low maintenance.
- ▷ Lower quick coupler with mechanic or hydraulic locking available.



RC06

Mechanic Rotary Couplers RC KMS-S

Type	Width A (mm/in)	Width B (mm/in)	Height C (mm/in)	Weight* (from kg/lbs)	Rotations/min (@l/min / @GPM)	Torque** (kNm/ft.lb)	Operating weight (t/lbs)
RC19 KMS60S	243 / 9.5	233 / 9.1	186 / 7.3	299 / 658	8.5@50 / @13.2	12 / 8,850	14 - 19 / 30,800 - 41,800
RC25 KMS70S	265 / 10.4	265 / 10.4	220 / 8.7	405 / 891	8.5@60 / @15.9	15 / 11,063	19 - 25 / 41,800 - 55,000
RC33 KMS70S	-	-	-	-	-	-	25 - 33 / 55,000 - 72,600

*w/o quick coupler and upper bracket; **@360° constant

Package consists of: upper bracket, rotation drive, mechanic quick coupler, socket

Hydraulic Rotary Couplers RC KHS-S

Type	Width A (mm/in)	Width B (mm/in)	Height C (mm/in)	Weight* (from kg/lbs)	Rotations/min (@l/min / @GPM)	Torque** (kNm/ft.lb)	Operating weight (t/lbs)
RC19 KHS60S	243 / 9.5	233 / 9.1	186 / 7.3	299 / 658	8.5@50 / @13.2	12 / 8,850	14 - 19 / 30,800 - 41,800
RC25 KHS70S	265 / 10.4	265 / 10.4	220 / 8.7	405 / 891	8.5@60 / @15.9	15 / 11,063	19 - 25 / 41,800 - 55,000
RC33 KHS70S	-	-	-	-	-	-	25 - 33 / 55,000 - 72,600

*w/o quick coupler and upper bracket; **@360° constant

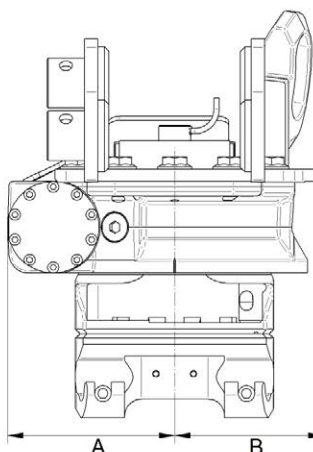
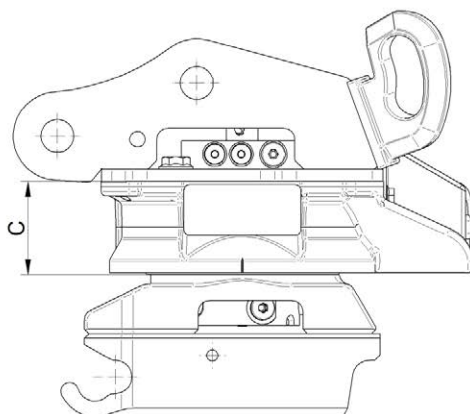
Package consists of: upper bracket, rotation drive, hydraulic quick coupler

Technical data and hydraulics RC

Type	Breakout force max. (ISO) (kN/kNm / lbf/ft.lb)	Bucket width max. (mm/in)	Recommended oil flow rotate (l/min / GPM)	Hydraulic pressure rotate max. (bar/psi)
RC19	150/200 / 33,000/147,500	1,800 / 70.8	40 - 50 / 10.6 - 13.2	250 / 3,600
RC25	170/250 / 37,400/184,375	2,000 / 78.7	50 - 60 / 13.2 - 15.9	250 / 3,600
RC33	205/330 / 45,100/243,375	2,200 / 86.6	60 - 80 / 15.9 - 21.1	250 / 3,600

Requirements of carrier machine for RC KHS-S

	Quick coupler	Rotation drive
Hydraulic system:	one double acting hydraulic circuit	one double acting hydraulic circuit
Note:	excavator needs to be equipped with quick coupler control	



unlockable flip switch (hold to run)



KHS Control

Installations sets for hydraulic quick couplers and tilt couplers

Type	Description
KHS03L HD-KHS08L installation set safety	incl. KHS Control unit
KHS03L HD-KHS08L installation set basic	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)



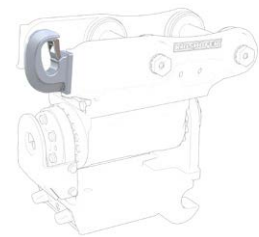
Locking sensor for hydraulic quick couplers and tilt couplers with System L-Lock

Type	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 sets for hydraulic tilt couplers TC

Type	Description
TC14-140 NRV	non-return valve set for TC14-140
TC19-140 NRV	non-return valve set for TC19-140
TC23-140 NRV	non-return valve set for TC23-140



Load hook for quick couplers and tilt couplers

Type	Description
KM 685 06 KSW10 hook	load hook (8t/17,600lbs load capacity)
KM 685 06 KSW21 hook	load hook (10t/22,000lbs load capacity)
KM 685 06 KSW25 hook	load hook (18t/39,600lbs load capacity)



Sockets for mechanic quick couplers and tilt couplers

Type	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 S-Lock

Quick coupling adapters for System L-Lock

Type	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



NOX TILTROTATORS

With our Tiltrotator, your attachments can be rotated by 360° continuously and tilted by up to 50° to both sides. Therefore, the efficiency of your machine will be increased dramatically as time and resources will be saved.

FOUR FACTS ABOUT THE USE OF TILTROTATORS:

PRODUCTIVITY AND PROFITABILITY

MANAGE THE SAME AMOUNT OF WORK IN LESS TIME.

SAFETY

THE NOX TILTROTATOR COMPLIES WITH ALL CURRENT SAFETY REGULATIONS AND HELPS THE OPERATOR AND SURROUNDING WORKFORCE TO ACHIEVE AN ACCIDENT-FREE ENVIRONMENT.

VERSATILITY AND FLEXIBILITY

INCREASE THE USE OF YOUR MACHINE DRAMATICALLY AND ACCEPT MORE JOBS. ESPECIALLY IN COMBINATION WITH THE NOX.

READY FOR THE FUTURE

THE NOX TILTROTATOR COMES GPS-READY WITH ITS VERY MODERN NOXProp+ CONTROL SYSTEM. THE MOST COMMON 3D MACHINE CONTROL SYSTEMS CAN BE IMPLEMENTED. EVEN RETROACTIVELY.



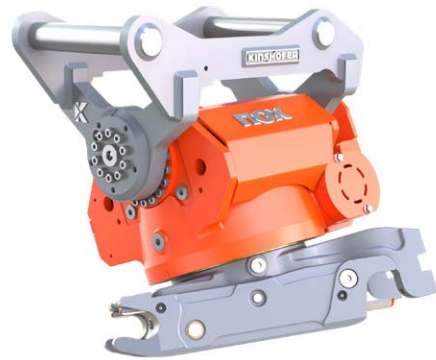
Catalog: NOX Tiltrotators

Request? nox@kinshofer.com

Experience and innovation have led to one of the most advanced tools for excavators – the NOX Tiltrotator: 360° endless rotation and a tilt angle of up to 2 x 50° make it a universal joint, that allows for many new application possibilities. In combination with a quick coupler and different attachments this means highest efficiency on each site.

Advantages:

- ▷ **Precision and safety** due to „smooth“ proportional control.
- ▷ **High stability and long service life** thanks to special cast housing.
- ▷ **Low overall height** thanks to elliptic rotary actuator.
- ▷ **High and constant tilting force** due to cylinderless rotary actuator.
- ▷ **No protruding parts:** excavation with narrow bucket possible in small, deep canals, even under or in between existing tubes.
- ▷ **Low maintenance:** worm drive lubricated permanently (oil bath).



	TR14NOX	TR19NOX	TR25NOX
Operating weight (t/lbs)	10 - 14 / 22,000 - 30,800	14 - 19 / 30,800 - 41,800	19 - 25 / 41,800 - 55,000
Weight* (from) (kg/lbs)	485 / 1,067	580 / 1,276	860 / 1,892
Width A* (from) (mm/in)	240 / 9.5	230 / 9.1	260 / 10.2
Length B* (from) (mm/in)	610 / 24.0	645 / 25.4	845 / 33.3
Height C* (from) (mm/in)	565 / 22.2	580 / 22.8	650 / 22.6
Recommended bucket width max. (mm/in)	1,600 / 63.0	1,700 / 67.0	2,000 / 78.7
Breakout force max. (ISO) (kN/lbf)	110 / 24,200	150 / 33,000	170 / 37,400
Breakout torque max. (kNm/ft.lb)	145 / 106,937	200 / 147,500	250 / 184,375
Tilt angle	2 x 50°	2 x 50°	2 x 50°
Tilt torque (constant) (kNm/ft.lb)	31 / 22,860	40.5 / 29,870	51.7 / 38,130
Rotation speed (1/min)	8.5	8.5	8.5
Rotation torque (Nm/ft.lb)	11,000 / 8,115	12,000 / 8,850	15,000 / 11,065
Hydraulic pressure max. (MPa/psi)	30 / 4,320	30 / 4,320	30 / 4,320
Recommended pump capacity CSP (l/min / GPM)	80 - 160 / 21.1 - 42.3	100 - 180 / 26.4 - 47.6	120 - 200 / 31.7 - 52.8
Recommended pump capacity DF04/06/10 (l/min / GPM)	40/45 / 10.6/11.9	60/50 / 15.9/13.2	70/70 / 18.5/18.5
Electric swivel	optional	optional	optional

* Specifications depend on the machine configuration (upper bracket and lower quick coupler)

Note: Highflow swivel (DF10 HF / CSP HF) and Powerline (CSP PL) available

Standard package: tiltrotator, electrical control system, upper bracket, lower quick coupler

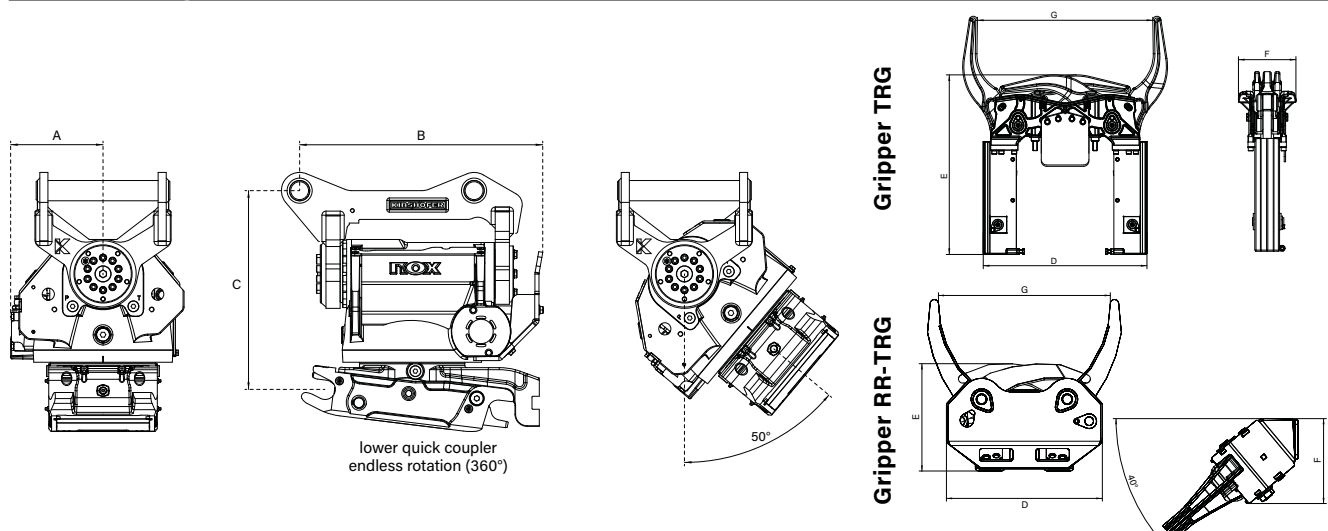
Accessories

Hydraulic gripper	Weight (approx. kg/lbs)	Dimensions D x E x F** (mm/in)	Opening max. G (mm/in)	Closing time*** (sec)	Closing force (kN/lbf)	Load capacity (kg/lbs)
TRG11	80 / 176	600 x 660 x 210 / 23.6 x 26 x 8.3	644 / 25.3	1.5***	10 / 2,200	500 / 1,100
TRG19	113 / 249	700 x 715 x 265 / 27.6 x 28.2 x 10.4	734 / 28.9	3.0***	18.5 / 4,070	900 / 1,980
TRG25	195 / 429	895 x 760 x 295 / 35.2 x 29.9 x 11.6	1,100 / 15.6	2.0***	19.5 / 4,290	1,400 / 3,080
RR-TRG	170 / 154	745 x 480 x 395 / 29.3 x 18.9 x 15.6	822 / 32.4	3.9****	30.1 / 6,622	5,000 / 11,000

The RR-TRG gripper is only available for TR19NOX and TR25NOX.

** see technical drawing *** at 25 l/min / 6.5 GPM **** at 30 l/min / 8 GPM

Technical drawings



The NOXProp+ control system provides more safety and precision. NOX Tiltrotator, quick coupler and attached tools are controlled effectively and conveniently with ergonomic joysticks by the smart NOXProp+. Easily retrofittable for each excavator. Features are the individual function setting and the easy menu navigation thanks to the corresponding touchscreen. Integrated GPS, LTE, Bluetooth and WiFi link your machine with the digital workplace. In combination with our SmartTag, the connection with the fleet management is realized for maximum integration and effectivity.

Key features NOXProp+:

- Optimal NOX performance thanks to perfectly adjusted control
- Autocalibration and Position indicator at the display.
- 4 different user profiles with up to 10 tool profiles (more flexibility)
- Integration with 2D/3D excavation system - NOXGeo
- Easy installation, Connectivity (WiFi, LTE, GPS, Bluetooth) and remote maintenance.
- SmartTag- interface to fleet management



NOXProp+

Summary of machine requirements

CSP - NOXProp+ & NOXProp	DF04 - lines	DF06 - lines	DF10 - lines
Hammer/shear circuit	2 x proportional double-acting circuits	2 x proportional double-acting circuits (tilt and rotation)	2 x proportional double-acting circuits (tilt and rotation)
Additional high pressure circuit (Powerline) for Tiltrotator with CSP PL (NOXProp+)		1 x hydraulic quick coupler circuit	1 x hydraulic quick coupler circuit
			1 x double-acting high pressure circuit (compactor)
			1 x double-acting low pressure circuit (gripper)

Overview of the different functions of the control systems

	NOXProp+	DF04	DF06	DF10
NOXGeo (GPS-ready)	✓	●	●	●
Autocalibration	✓	—	—	—
Angle position indication	✓	—	—	—
Individual operator settings	✓	—	—	—
Individual speed setting	✓	—	—	—
Touchscreen in cabin	✓	—	—	—
Trouble shooting on display	✓	—	—	—
Remote maintenance	✓	—	—	—
Connectivity tools (Bluetooth, LTE, WiFi)	✓	—	—	—
Fully proportional control	✓	depending on machine	depending on machine	depending on machine
Changing roller position	✓	—	—	—
Individual tool settings	✓	—	—	—
Tilt, rotation & extra in same movement	✓	—	—	depending on machine
High flow attachment (HF)	●	—	—	●
Quick coupler safety sensors	●	—	—	—
Quick coupler control	✓	—	—	—
Driving/steering function	●	—	—	—
Fleet management	●	●	●	●
Machine assistance systems	●	—	—	—

✓ Standard ● Optional

Request? nox@kinshofer.com

Multi Purpose Grabs for **NOX** Tiltrotators up to 25t / 55,000lbs

A-Series

Especially adapted to the **NOX** Tiltrotators there are different attachments available. The Multi Purpose Grab with hydraulic cylinder is ideally adjusted to the **NOX** Tiltrotators for excavators with 11t / 24,200lbs up to 25t / 55,000lbs operating weight.

- **The sophisticated ergonomics** enable loading, sorting, digging and demolition operations with maximum efficiency.
- Also for **demolition works**.
- **Different adapters available**.
- **Durability** due to the use of cutting edge material 500HB.



Multi Purpose Grab

Type	for NOX	Width (mm/in)	Opening (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force* (kN/lbf)	Operating weight (t/lbs)
A14TR-60	TR14NOX	600 / 23.6	1,890 / 74.4	260 / 0.3	510 / 1,122	3,000 / 6,600	30 / 6,600	11 - 14 / 24,200 - 30,800
A19TR-60	TR19NOX	600 / 23.6	1,900 / 74.8	300 / 0.4	570 / 1,254	4,000 / 8,800	27 / 5,940	14 - 19 / 30,800 - 41,800
A25TR-70	TR25NOX	700 / 27.5	2,038 / 80.2	400 / 0.5	815 / 1,793	5,000 / 11,000	38 / 8,360	18 - 25 / 39,600 - 55,000

* at 32 MPa (320 bar) / 4,640psi

Package consists of: multi purpose grab

Note: adapters of different manufacturers see "Mounting options..."

Requirements of carrier machine

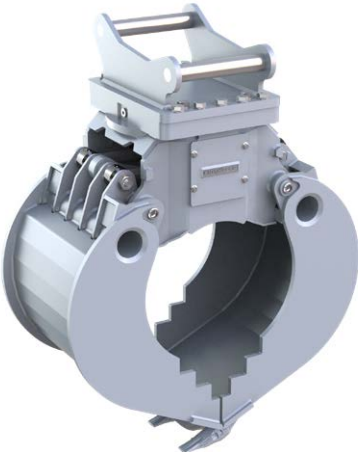
Operating pressure: max. 32 MPa (320 bar) / 4,640psi
Pump capacity: 50 - 100 l/min / 13 - 26.5 GPM

Pictures

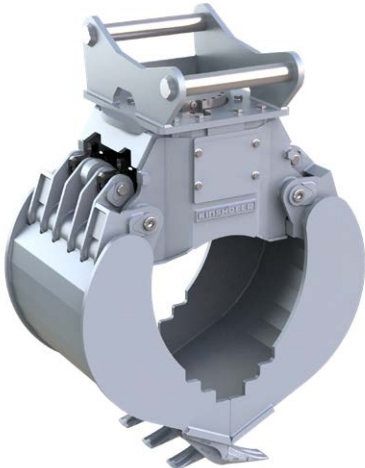
A14TR-60



A19TR-60

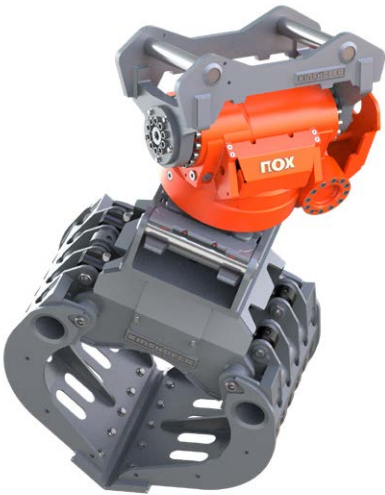


A25TR-84



Especially adapted to the **NOX** Tiltrotators there are different attachments available. The Demolition and Sorting Grabs with hydraulic cylinder are ideally adjusted to the **NOX** Tiltrotators for excavators with up to 25t / 55,000lbs operating weight.

- ▷ Different adapters available.
- ▷ **High closing force** thanks to two horizontal hydraulic cylinders, completely protected by the carrier.
- ▷ The **end positions** (grab open) are **hydraulically cushioned**, to protect the cylinder when gripping the material.
- ▷ Shells with perforated shells and **exchangeable cutting edges**.
Durable, exchangeable and turnable cutting edges (500HB).



Demolition and Sorting Grabs								
Type	for NOX	Width (mm/in)	Opening (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Operating weight (t/lbs)
D14TR-60	TR14NOX	600 / 23.6	1,555 / 61.2	260 / 0.34	400 / 880	3,000 / 6,600	30 / 6,600*	11 - 14 / 24,200 - 30,800
D19TR-80	TR19NOX	800 / 31.5	1,550 / 61	300 / 0.39	500 / 1,100	4,000 / 8,800	27 / 5,940*	14 - 19 / 30,800 - 41,800
D19TR-100	TR19NOX	1,000 / 39.3	1,870 / 73.6	500 / 0.65	595 / 1,309	4,000 / 8,800	25 / 5,500*	14 - 19 / 30,800 - 41,800
D25TR-84	TR25NOX	840 / 33.1	1,890 / 74.4	380 / 0.49	725 / 1,595	5,000 / 11,000	42 / 9,240*	18 - 25 / 39,600 - 55,000
D25TR-100	TR25NOX	1,000 / 39.3	1,890 / 74.4	450 / 0.58	770 / 1,694	5,000 / 11,000	42 / 9,240*	18 - 25 / 39,600 - 55,000
D30TR-115	-	1,150 / 45.3	2,147 / 84.5	800 / 1.05	1,280 / 2,816	6,000 / 13,200	63 / 13,860**	25 - 30 / 55,000 - 66,000

* at 32 MPa (320 bar) / 4,640 psi ** at 35 MPa (350 bar) / 5040 psi

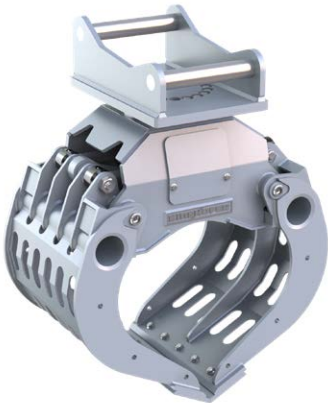
Package consists of: demolition and sorting grab

Note: adapters of different manufacturers see "Mounting options..."

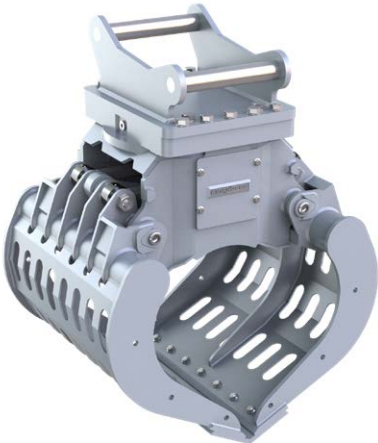
Requirements of carrier machine		
Operating pressure:	D14TR - D25TR max. 32 MPa (320 bar) / 4,640 psi	D30TR max. 35 MPa (350 bar) / 5,040 psi
Pump capacity:	50 - 100 l/min / 13 - 26.5 GPM	75 - 150 l/min / 19.8 - 39.6 GPM

Pictures

D14TR-60



D19TR-80



D25TR-84



Request? nox@kinshofer.com

Robust grabs for excavators with revolutionary exchange system in a single device. As a new demand on site arises, the attachment can be exchanged and the new application can commence. Easy remounting of shells for excavating, landscaping, laying pipes, logging, rail track handling etc.

- **Efficiency:** only the shells are replaced; exchange is possible with only one person
- **Fastness:** easy exchange of the lynch pin from the change-over system within 4 minutes, no hydraulic work necessary
- **Robust technics:** compact design through the integrated rotator. Robust shell bearing with coexisting change mechanism



Clamshell buckets with exchangeable shells are available for

- excavators up to 8t/17600lbs: C08VE / T08VE / R08VE and more
- excavators up to 12t/26400lbs: C12VE / T12VE / R12VE and more

Rock tines



Clamshell bucket



Foundation shells



Well shaft shells

Module



Pipe grab



Timber tines



Rail tines



Hay and forestry tines



Start

Close bucket and set it down. Mount the exchange support.



0.58 min.

Remove the lynch pin from the change-over system.



1.67 min.

Remove the change-over pin with extraction tool.



2.50 min.

Position the bucket carrier over the new attachment and close the locking unit hydraulically.



3.75 min.

Insert the change-over pin and fasten the lynch pin.



4 min. ready!

Remove the exchange support. Ready for use!

Clamshell Buckets for **NOX** Tiltrotators up to 19t / 41,800lbs

C-Series

Especially adapted to the **NOX** Tiltrotators there are different attachments available. The Clamshell Bucket with hydraulic cylinder is ideally adjusted to the **NOX** Tiltrotators for excavators with 11t / 24,200lbs up to 19t / 41,800lbs operating weight.

Thanks tp the integrated C-VE shell exchange system, the grab is extremely flexible and versatile.

- **Economic solution** as only the shells have to be exchanged for another application – bucket carrier, hydraulic cylinder and bearings are integrated into the unit.
- **Long life** is ensured due to the use of 500 HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Excellent digging characteristics** are the result of high closing forces.



Clamshell Buckets

Type	for NOX	Width (mm/in)	Opening (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Operating weight (t/lbs)
C14TR-60	TR14NOX	600 / 23.6	1645 / 64.8	245 / 0.32	510 / 1,122	4,500 / 9,900	39 / 8,580	11 - 14 / 24,200 - 30,800
C19TR-60	TR19NOX	600 / 23.6	1655 / 65.2	245 / 0.32	575 / 1,265	4,500 / 9,900	42 / 9,240	14 - 19 / 30,800 - 41,800

Package consists of: clamshell bucket

Note: adapters of different manufacturers see "Mounting options..."

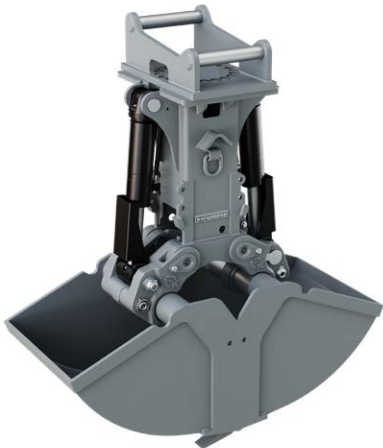
Requirements of carrier machine

Operating pressure: max. 35 MPa (350 bar) / 5,040 psi

Pump capacity: 40 - 120 l/min / 10.6 - 31.7 GPM

Pictures

C14TR-60



C19TR-80



Request? scs@kinshofer.com

Fork Tines for **NOX**-Tiltrotators 13-24t / 28,600-52,800lbs

GAF / GAH

Lifting, moving and positioning of palletized or unpalletized materials is easy with the GAF or GAH Fork Set. Turn your excavator into a fork lift truck - ideal in combination with a Tiltrotator. Now also available with hydraulically adjustable tines for an even easier and more effective and secure working.

- ▷ High load capacity.
- ▷ Low self-weight.
- ▷ Very economic: low cost.
- ▷ Ideal for use with Tiltrotator: highest flexibility.
- ▷ Two versions available: with mechanically or hydraulically adjustable tines.
- ▷ Easy mounting thanks to a quick change adapter.
- ▷ Different adapters available.
- ▷ Mechanical fork tines with adapter system L-Lock, Oilquick or Verachtert without surcharge.



Mechanic Fork Tines GAF

Type	for NOX	Standard adapter	Load capacity max. (kg/lbs)	Width (mm/in)	Weight (kg/lbs)	Tine length (mm/in)	Operating weight (t/lbs)
GAF18	TR14NOX TR19NOX	S45 S60	4,000 / 8,800	1,200 / 47.2	340 / 748	1,200 / 47.2	13 - 18 / 28,600 - 39,600
GAF20	TR19NOX TR25NOX	S70	4,000 / 8,800	1,200 / 47.2	420 / 924	1,200 / 47.2	19 - 20 / 41,800 - 44,000
GAF24	TR25NOX	S70	5,000 / 11,000	1,200 / 47.2	440 / 968	1,200 / 47.2	21 - 24 / 46,200 - 52,800

Package consists of: fork tines, frame with standard suspension for S-couplers*

Hydraulic Fork Tines GAF

Type	for NOX	Standard adapter	Load capacity max. (kg/lbs)	Width (mm/in)	Weight (kg/lbs)	Tine length (mm/in)	Operating weight (t/lbs)
GAH18	TR14NOX TR19NOX	S45 S60	4,000 / 8,800	1,200 / 47.2	340 / 748	1,200 / 47.2	13 - 18 / 28,600 - 39,600
GAH20	TR19NOX TR25NOX	S70	4,000 / 8,800	1,200 / 47.2	420 / 924	1,200 / 47.2	19 - 20 / 41,800 - 44,000
GAH24	TR25NOX	S70	5,000 / 11,000	1,200 / 47.2	440 / 968	1,200 / 47.2	21 - 24 / 46,200 - 52,800

Package consists of: hydraulic fork tines, frame with standard suspension for S-couplers*

*other adapters available on request

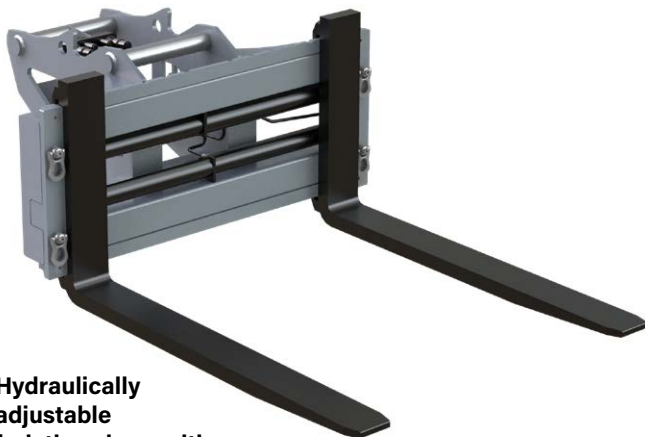
Note: put loads always the nearest to the back and to the centre of gravity

Requirements for carrier machine



The excavator must conform to lifting regulations

Pictures



Hydraulically adjustable fork tines here with fully hydraulic OQ-quick change adapter



Hydraulically adjustable fork tines here with cylinderless **NOX** Tiltrotator

Request? exc@kinshofer.com

The AVB Levelling Bar with roller for NOX Tiltrotators is the ideal tool to level material for a smooth surface for excavators with up to 24t/52,800lbs operating weight.

- **Robust design:** no protruding parts, stable construction.
- **Effective distribution and levelling** of gravel etc.
- **Different adapters** available.
- **Different widths** available.



here with adapter

Levelling Bar with roller AVB

Type	for NOX	Width (mm/in)	Weight (kg/lbs)	Operating weight (t/lbs)
AVB 24-2500	TR14NOX / TR19NOX / TR25NOX	2,500 / 98.4	420 / 924	< 24 / 52,800
AVB 24-2700	TR14NOX / TR19NOX / TR25NOX	2,700 / 106.3	470 / 748	< 24 / 52,800

Package consists of: levelling bar with roller

Note: adapters of other manufacturers on request

Accessories

Type	Description
KSW10-AVB	adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs
KSW21/25-AVB	adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
OQ60-AVB	adapter for system Oilquick OQ60 – up to 15t/33,000lbs
OQ60-5-AVB	adapter for system Oilquick OQ60-5 – up to 15t/33,000lbs
OQ65-AVB	adapter for system Oilquick OQ65 – up to 22t/48,400lbs
OQ70-AVB	adapter for system Oilquick OQ70 – up to 28t/61,600lbs
OQ70/55-AVB	adapter for system Oilquick OQ70/55 – up to 32t/70,400lbs
S60-AVB	adapter for system S-Lock KMS60S/KHS60S – up to 18t/39,600lbs
S70-AVB	adapter for system S-Lock KMS70S/KHS70S – up to 30t/66,000lbs

Picture

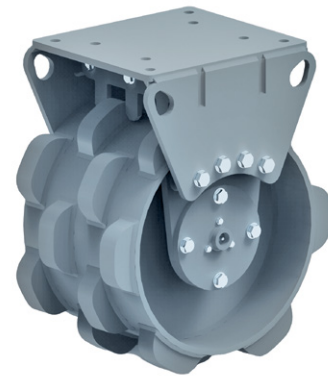


Request? exc@kinshofer.com

Compactor Wheel 14t - 20t / 30,800 - 44,000 lbs

KRC

Designed for compacting the ground and fillings of trenches, this attachment provides a solid, uniform surface that lasts over time. Fitted with tapered roller bearings, wheel compactors are designed to ensure uniform operation, favouring a high degree of compacting. Available in 2 variants from a minimum of 14 t / 30,800 lbs up to a maximum of 20 t / 44,000 lbs.



- ▷ Smooth operation and high degree of compression thanks to the tapered roller bearings installed in the compactor wheel.
- ▷ High-strength steel and robust bearings ensure trouble-free operation.
- ▷ Long lifetime

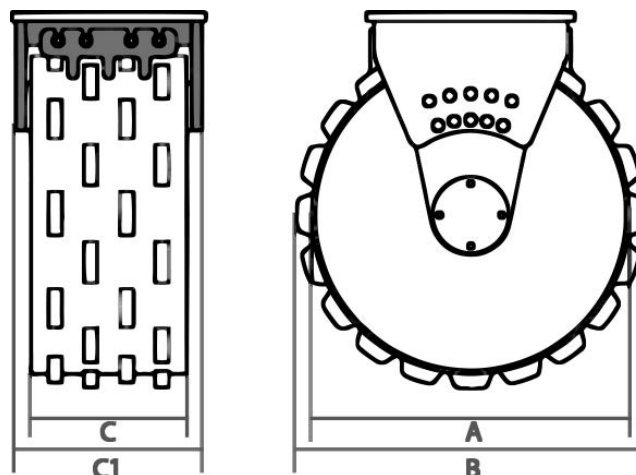
Compactor Wheel

Type	Operating weight (t/lbs)	Width A* (mm/in)	Width B* (mm/in)	Width C* (mm/in)	Width C1* (mm/in)	Weight (kg/lbs)
KRC3-300	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	300 / 11.81	390 / 15.35	310 / 682
KRC3-400	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	400 / 15.75	490 / 19.29	320 / 704
KRC3-500	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	500 / 19.69	590 / 23.23	330 / 726
KRC3-600	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	600 / 23.62	690 / 27.17	340 / 748
KRC3-800	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	800 / 31.50	890 / 35.04	360 / 792
KRC3-1000	8 - 14 / 17,600 - 30,800	600 / 23.62	700 / 27.56	1,000 / 39.37	1,090 / 42.91	700 / 1,540
KRC4-300	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	300 / 11.81	390 / 15.35	650 / 1,430
KRC4-400	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	400 / 15.75	490 / 19.29	700 / 1,540
KRC4-500	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	500 / 19.69	590 / 23.23	750 / 1,650
KRC4-600	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	600 / 23.62	690 / 27.17	800 / 1,760
KRC4-800	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	800 / 31.50	890 / 35.04	900 / 1,980
KRC4-1000	14 - 20 / 30,800 - 44,000	900 / 35.43	1,000 / 39.37	1,000 / 39.37	1,090 / 42.91	1,000 / 2,200

Package consists of: compactor wheel

*see technical drawing

technical drawing



Request? exc@kinshofer.com

Grading Buckets System S-Lock 12-38t / 26,400-83,600lbs

SKP

The SKP grading buckets are ideal for all types of grading and leveling work and are very robust with a low weight thanks to the use of HB 400 steel.

These properties make the bucket an efficient and profitable tool.

Depending on the type, the bucket is suitable for excavators with an operating weight of up to 38t / 83,600lbs.

- ▷ **Robust:** low wear.
- ▷ **Easy mounting** to the carrier.
- ▷ **Different adapters** available.
- ▷ **No protruding parts.**



Grading Buckets SKP

Type	Volume (liter/c.y.)	Width (mm/in)	Weight (approx. kg/lbs)	Operating weight (t/lbs)
SKP 14 - 600	600 / 0.78	1,600 / 63.0	390 / 858	12 - 14 / 26,400 - 30,800
SKP 16 - 650	650 / 0.85	1,600 / 63.0	500 / 1,100	14 - 16 / 30,800 - 35,200
SKP 18 - 750	750 / 0.98	1,700 / 66.9	520 / 1,144	16 - 18 / 35,200 - 39,600
SKP 20 - 650	650 / 0.85	1,600 / 63.0	525 / 1,155	18 - 20 / 39,600 - 44,000
SKP 20 - 750	750 / 0.98	1,600 / 63.0	530 / 1,166	18 - 20 / 39,600 - 44,000
SKP 20 - 850	850 / 1.11	1,600 / 63.0	540 / 1,188	18 - 20 / 39,600 - 44,000
SKP 20 - 950	950 / 1.24	1,600 / 63.0	550 / 1,210	18 - 20 / 39,600 - 44,000
SKP 22 - 1100	1,100 / 1.44	1,800 / 70.7	670 / 1,474	20 - 22 / 44,000 - 48,400
SKP 24 - 1200	1,200 / 1.57	1,800 / 70.7	780 / 1,716	22 - 24 / 48,400 - 52,800
SKP 30 - 1800	1,800 / 2.35	2,000 / 78.7	1,200 / 2,640	24 - 30 / 52,800 - 66,000
SKP 33 - 1800	1,800 / 2.35	2,000 / 78.7	1,200 / 2,640	30 - 33 / 66,000 - 72,600
SKP 38 - 2000	2,000 / 2.61	2,000 / 78.7	1,400 / 3,080	33 - 38 / 72,600 - 83,600

Package consists of: bucket, standard adapter for S-coupler (other adapters on request)



Request? buc@kinshofer.com

Cable Buckets System S-Lock 12-35t / 26,400-77,000lbs

SKK

The SKK cable buckets are used for digging out cable ducts and are very robust with a low weight thanks to the use of HB 400 steel. These properties make the bucket an efficient and profitable tool.

Depending on the type, the bucket is suitable for excavators with an operating weight of up to 35t / 77,000 lbs.

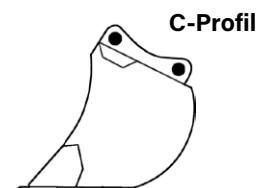
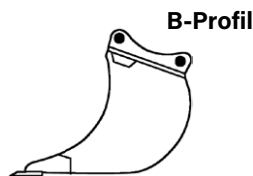
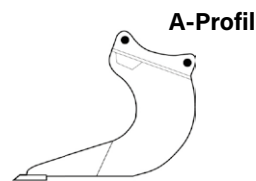
- ▷ Different forms available: **conical or straight shape**.
- ▷ **Robust**: also suitable for hard grounds.
- ▷ **Easy mounting** to the carrier.
- ▷ **Different profiles** available.
- ▷ **Different adapters** available.
- ▷ **No protruding parts**.



Cable Buckets SKK

Type	Volume (liter/c.y.)	Width (mm/in)	Weight (approx. kg/lbs)	Profile	Operating weight (t/lbs)
SKK 14 - 250	250 / 0.33	300 / 11.8	110 / 242	B	12 - 14 / 26,400 - 30,800
SKK 14 - 275	275 / 0.36	400 / 15.7	120 / 264	B	12 - 14 / 26,400 - 30,800
SKK 14 - 300	300 / 0.39	500 / 19.7	140 / 308	B	12 - 14 / 26,400 - 30,800
SKK 14 - 330	330 / 0.43	600 / 23.6	150 / 330	B	12 - 14 / 26,400 - 30,800
SKK 22 - 300	300 / 0.39	300 / 11.8	260 / 572	A	14 - 22 / 30,800 - 48,400
SKK 22 - 340	340 / 0.44	400 / 15.7	270 / 594	A	14 - 22 / 30,800 - 48,400
SKK 22 - 380	380 / 0.50	500 / 19.7	280 / 616	A	14 - 22 / 30,800 - 48,400
SKK 22 - 400	400 / 0.52	600 / 23.6	285 / 627	A	14 - 22 / 30,800 - 48,400
SKK 22 - 450	450 / 0.59	700 / 27.6	290 / 638	A	14 - 22 / 30,800 - 48,400
SKK 24 - 400	400 / 0.52	600 / 23.6	400 / 880	A	22 - 24 / 48,400 - 52,800
SKK 30 - 500	500 / 0.65	600 / 23.6	500 / 1,100	B	24 - 30 / 52,800 - 66,000
SKK 33 - 850	850 / 1.11	700 / 27.6	750 / 1,650	B	30 - 33 / 66,000 - 72,600
SKK 35 - 900	900 / 1.18	800 / 31.5	800 / 1,760	B	33 - 35 / 72,600 - 77,000

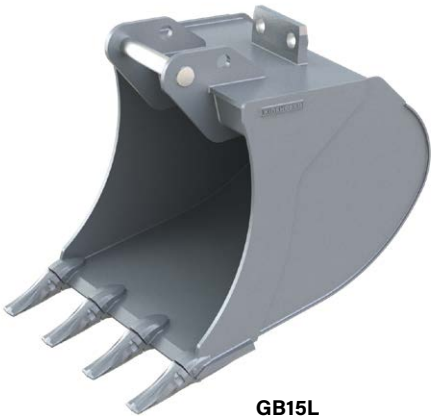
Package consists of: bucket, standard adapter for S-coupler (other adapters on request)



Request? buc@kinshofer.com

General Bucket for all kinds of excavation works in light and medium-heavy soils as well as for loading or backfilling of sand, gravel and earth. The integrated quick change adapter is adjusted to the system L-Lock. Other adapters on request.

- **Conical design** with narrowing by 2° on both sides.
- **Easy penetration and high excavating capacity.**
- **Durable** thanks to robust design and use of highly resistant wearout steel for the bucket base and side edges (400HB).
- Protruding bucket base for **better grading behavior** and **protection from wearout.**
- **Optimized kives and excavator teeth.**



GB15L

General Buckets						
Type	Number of teeth	Volume ISO 7451 (m³/yd³)	Width (mm/in)	Weight (kg/lbs)	Adapter	Operating weight (t/lbs)
GB15L-040	2	0.19 / 0.25	400 / 15.8	262 / 576	KSW10	10 - 15 / 22,000 - 33,000
GB15L-050	3	0.26 / 0.34	500 / 19.7	284 / 625	KSW10	10 - 15 / 22,000 - 33,000
GB15L-060	3	0.34 / 0.44	600 / 23.6	305 / 671	KSW10	10 - 15 / 22,000 - 33,000
GB15L-080	4	0.49 / 0.64	800 / 31.5	367 / 807	KSW10	10 - 15 / 22,000 - 33,000
GB15L-100	4	0.65 / 0.85	1,000 / 39.4	417 / 917	KSW10	10 - 15 / 22,000 - 33,000
GB15L-120	5	0.81 / 1.06	1,200 / 47.2	479 / 1,054	KSW10	10 - 15 / 22,000 - 33,000
GB19L-040	2	0.23 / 0.3	400 / 15.8	320 / 704	KSW10	15 - 19 / 33,000 - 41,800
GB19L-050	3	0.31 / 0.41	500 / 19.7	349 / 768	KSW10	15 - 19 / 33,000 - 41,800
GB19L-060	3	0.39 / 0.51	600 / 23.6	374 / 823	KSW10	15 - 19 / 33,000 - 41,800
GB19L-080	4	0.57 / 0.75	800 / 31.5	447 / 983	KSW10	15 - 19 / 33,000 - 41,800
GB19L-100	4	0.76 / 0.99	1,000 / 39.4	509 / 1,120	KSW10	15 - 19 / 33,000 - 41,800
GB19L-120	5	0.95 / 1.24	1,200 / 47.2	584 / 1,285	KSW10	15 - 19 / 33,000 - 41,800
GB23L-060	3	0.44 / 0.58	600 / 23.6	474 / 1,043	KSW21/25	19 - 23 / 41,800 - 50,600
GB23L-080	4	0.64 / 0.84	800 / 31.5	541 / 1,190	KSW21/25	19 - 23 / 41,800 - 50,600
GB23L-100	4	0.85 / 1.11	1,000 / 39.4	614 / 1,351	KSW21/25	19 - 23 / 41,800 - 50,600
GB23L-120	5	1.06 / 1.39	1,200 / 47.2	701 / 1,542	KSW21/25	19 - 23 / 41,800 - 50,600
GB23L-140	5	1.27 / 1.66	1,400 / 55.1	774 / 1,703	KSW21/25	19 - 23 / 41,800 - 50,600
GB28L-060	3	0.49 / 0.64	600 / 23.6	592 / 1,302	KSW21/25	23 - 28 / 50,600 - 61,600
GB28L-080	4	0.71 / 0.93	800 / 31.5	697 / 1,533	KSW21/25	23 - 28 / 50,600 - 61,600
GB28L-120	5	1.18 / 1.54	1,200 / 47.2	878 / 1,932	KSW21/25	23 - 28 / 50,600 - 61,600
GB28L-140	5	1.42 / 1.86	1,400 / 55.1	972 / 2,138	KSW21/25	23 - 28 / 50,600 - 61,600
GB35L-080	3	0.86 / 1.12	800 / 31.5	949 / 2,088	KSW21/25	26 - 35 / 57,200 - 77,000
GB35L-140	4	1.73 / 2.26	1,400 / 55.1	1,338 / 3,054	KSW21/25	26 - 35 / 57,200 - 77,000
GB35L-160	5	1.73 / 2.26	1,600 / 63.0	1,494 / 3,287	KSW21/25	26 - 35 / 57,200 - 77,000

Package consists of: general bucket incl. teeth, KSW-adapter for L-Lock

Ditch Cleaning Buckets System L-Lock 10-23t / 22,000-50,600lbs

DC-L

The Ditch Cleaning Bucket is the perfect tool to excavate, load and backfill sand, gravel and soil. Ditch cleaning, grading and levelling of embankments and lawns as well as digging trenches, skips and slopes are other applications for the DC-L series. The integrated quick change adapter is adjusted to the system L-Lock. Other adapters on request.

- **Conical design** with narrowing by 2° on both sides.
- **Easy penetration and high excavating capacity.**
- For **more flexibility** best in combination **with a tiltable quick coupler.**
- **Durable** thanks to robust design and use of highly resistant wearout steel for the bucket base (400HB).



DC15L

Ditch Cleaning Buckets

Type	Volume ISO 7451 (m³/yd³)	Cutting width (mm/in)	Weight (kg/lbs)	Adapter	Operating weight (t/lbs)
DC15L-180	0.44 / 0.58	1,800 / 70.9	437 / 961	KSW10	10-15 / 22,000-33,000
DC15L-200	0.495 / 0.65	2,000 / 78.7	476 / 1,047	KSW10	10-15 / 22,000-33,000
DC19L-180	0.60 / 0.78	1,800 / 70.9	465 / 1,023	KSW10	15-19 / 33,000-41,800
DC19L-200	0.65 / 0.85	2,000 / 78.7	506 / 1,113	KSW10	15-19 / 33,000-41,800
DC23L-200	0.90 / 1.18	2,000 / 78.7	661 / 1,454	KSW21	19-23 / 41,800-50,600

Package consists of: ditch cleaning bucket, KSW-adapter for L-Lock

Tilt Buckets System L-Lock 10-35t / 22,000-77,000lbs

TB-L

The hydraulically driven tilt bucket with horizontal cylinder is ideal for all daily works in general construction. With a tilt angle of 90° (2 x 45°) it is perfect for levelling and grading as well as for the construction of trenches, skips and slopes. The weld-on quick change adapter is compatible to the system L-Lock. Other adapters on request.

- **Drainage holes** on both sides.
- **Conical design** with narrowing by 2° on both sides.
- **Easy penetration and high excavating capacity.**
- **Durable** thanks to robust design and use of highly resistant wearout steel for the bucket base (400HB).



TB19L

Tilt Bucket

Type	Tilt angle	Volume ISO 7451 (m³/yd³)	Cutting width (mm/in)	Weight (kg/lbs)	Adapter	Operating weight (t/lbs)
TB15L-180	2 x 45°	0.44 / 0.58	1,800 / 70.9	599 / 1,318	KSW10	10-15 / 22,000-33,000
TB15L-200	2 x 45°	0.495 / 0.65	2,000 / 78.7	626 / 1,377	KSW10	10-15 / 22,000-33,000
TB19L-180	2 x 45°	0.60 / 0.78	1,800 / 70.9	627 / 1,379	KSW10	15-19 / 33,000-41,800
TB19L-200	2 x 45°	0.65 / 0.85	2,000 / 78.7	656 / 1,443	KSW10	15-19 / 33,000-41,800
TB19L-220	2 x 45°	0.70 / 0.92	2,200 / 86.6	694 / 1,527	KSW10	15-19 / 33,000-41,800
TB23L-200	2 x 45°	0.90 / 1.18	2,000 / 78.7	871 / 1,916	KSW21	19-23 / 41,800-50,600
TB23L-220	2 x 45°	1.00 / 1.31	2,200 / 86.6	915 / 2,013	KSW21	19-23 / 41,800-50,600
TB28L-200	2 x 45°	1.22 / 1.60	2,000 / 78.7	1,161 / 2,554	KSW21	23-28 / 50,600-61,600
TB35L-220	2 x 45°	1.43 / 1.87	2,200 / 86.6	1,550 / 3,410	KSW21	26-35 / 57,200-77,000

Package consists of: tilt bucket, KSW-adapter for L-Lock

Screening Bucket 10-35t / 22,000-77,000lbs

VMS

The innovative screening bucket “Multiscreening” has two screening drums, one inside the other. The setting of the grain size is variable and takes place hydraulically from the cab – no time-consuming replacement of mechanical elements.

The screening bucket is available for excavators with an operating weight of up to 35t / 77,000 lbs.

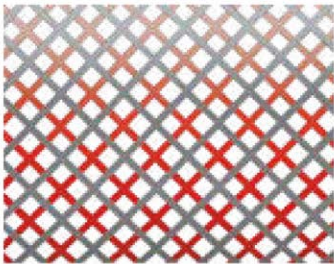
- Individual setting of the screening size during the screening process hydraulically from the driver's cab.
- Screening range adjustable from 25 mm / 0.98 in up to 65 mm / 2.56 in (VMS14 up to 60 mm / 2.36 in).
- Robust design due to the use of HB400 steel for both screening drums.
- High screening performance for different materials.
- Option: teeth.



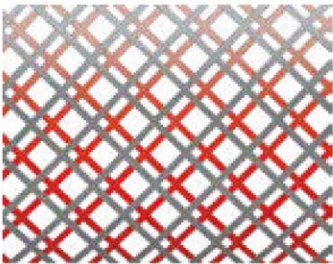
Screening Bucket VMS							
Type	Width (mm/in)	Length (mm/in)	Height w/o adapter (mm/in)	Drum diameter (mm/in)	Weight w/o adapter (kg/lbs)	Volume (liter/c.y.)	Operating weight (t/lbs)
VMS14	1,000 / 39.4	1,550 / 61.0	1,120 / 44.1	870 / 34.3	640 / 1,408	420 / 0.55	10 - 14 / 22,000 - 30,800
VMS20	1,250 / 49.2	1,800 / 70.9	1,500 / 59.1	1,124 / 44.3	1,092 / 2,402	980 / 1.28	14 - 25 / 30,800 - 55,000
VMS30	1,800 / 70.9	2,300 / 90.6	1,950 / 76.8	1,550 / 61.0	2,300 / 5,060	2,390 / 3.13	25 - 35 / 55,000 - 77,000
Package consists of: screening bucket							

Requirements of carrier machine	
Operating pressure:	max. 35 MPa (350 bar) / 5,040 psi
Recommended pump capacity:	min. 30 - max. 150 l/min / min. 7.9 - max. 39.6 GPM

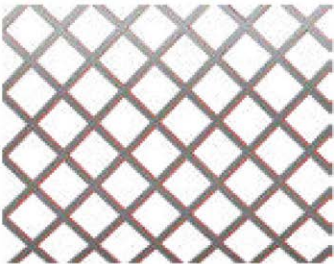
Technical drawing



25 mm / 0.98 in



intermediate position



65 mm / 2.56 in

Request? exc@kinshofer.com

Multi Purpose Grabs 11-27t / 24,200-59,400lbs

A15H / A20H / A27H

Robust multi purpose grab for excavators up to 15t / 33,000lbs, 20t / 44,000lbs or 27t / 59,400lbs operating weight - ideal for landscaping architecture.

- Efficient tool for the **exact positioning of natural rocks and for the handling of filling material** – without additional set-up times.
- The sophisticated ergonomics and the design of the shells enables loading, sorting, digging and demolition operations with **maximum efficiency**.
- Rigid mounting at the tilting joint of the bucket cylinder of the excavator guarantees **precise positioning**.
- The grab requires three hydraulic functions including the bucket cylinder.
- **Long life** is ensured due to the use of 500HB steel in the manufacture of cutting edges.
- **Robust, fully integrated rotation** with sturdy slewing ring to withstand external forces, with connecting hoses located inside the hub. Hydraulic quick exchange systems are mountable directly. **Integrated pressure relief valve** against overcharge.



Multi Purpose Grab A15H / A20H / A27H

Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Grip. range D min. (mm/in)	Volume (liter/c.y.)	Number of teeth	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Torque (Nm/ft.lbs)	Operating weight (t/lbs)
A15H-60	600 / 23.6	1,900 / 74.8	1,455 / 57.3	610 / 24.0	300 / 0.39	5	690 / 1,518	4,000 / 8,800	27 / 5,940	3,000 / 2,212.5	11 - 15 / 24,200 - 33,000
A20H-70	700 / 27.6	2,040 / 80.3	1,620 / 63.8	550 / 21.7	400 / 0.52	7	1,035 / 2,277	5,000 / 11,000	40 / 8,800	4,000 / 4,203.8	14 - 20 / 30,800 - 44,000
A27H-80	800 / 31.5	2,100 / 82.7	1,720 / 67.7	513 / 20.2	500 / 0.65	5	1,500 / 3,300	6,000 / 13,200	63 / 13,860	5,000 / 3,687.5	18 - 27 / 39,600 - 59,400

Package consists of: multi purpose grab, bolt-on teeth, integrated rotation with sturdy slewing ring, non-return valve

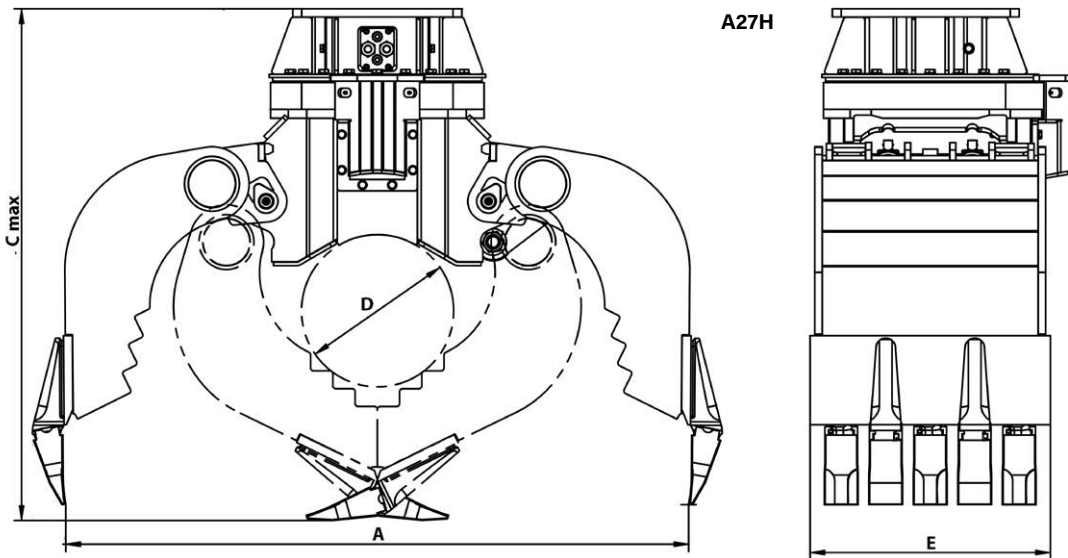
Accessories

Type	Description
KM 691 15t	adapter for specific solutions – up to 15t/33,000lbs
KM 691 20t	adapter for specific solutions – up to 20t/44,000lbs
KM 691 27t	adapter for specific solutions – up to 27t/59,400lbs
KM 690 15t	adapter for rigid mounting – up to 15t/33,000lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
OQ	bolt-on-adapter for Oilquick OQ – 5t to 70t/11,000lbs to 15,4000lbs
KSW10 rigid	bolt-on-adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs
KSW21/25 rigid	bolt-on-adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes available on request

Requirements of carrier machine

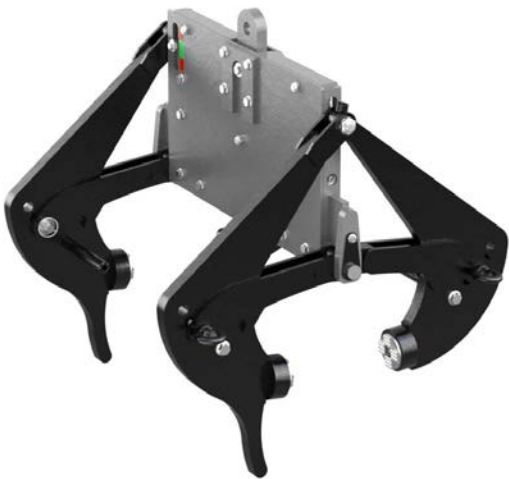
	A15H / A20H	A27H
Operating pressure (open/close):	max. 32 MPa (320 bar) / 4,640psi	max. 35 MPa (350 bar) / 5,070psi
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40GPM	75 - max. 150 l/min / 20 - max. 40GPM
Hydraulic connections (open/close):	G 3/4" / G 1/2"	G 1" / G 1/2"
Operating pressure (rotate):	max. 17 MPa (170 bar) / 2,460psi	max. 17 MPa (170 bar) / 2,460psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13GPM	20 - max. 50 l/min / 5 - max. 13GPM

Technical drawings



The KM 932MB barrier lifter is a mechanical grab for fast and convenient handling of concrete barriers and blocks.

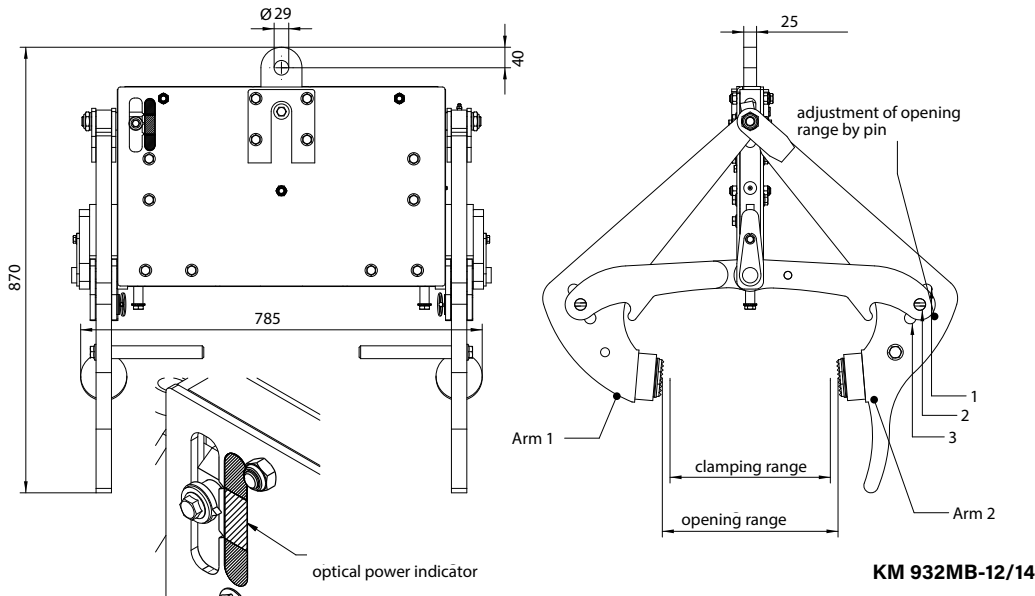
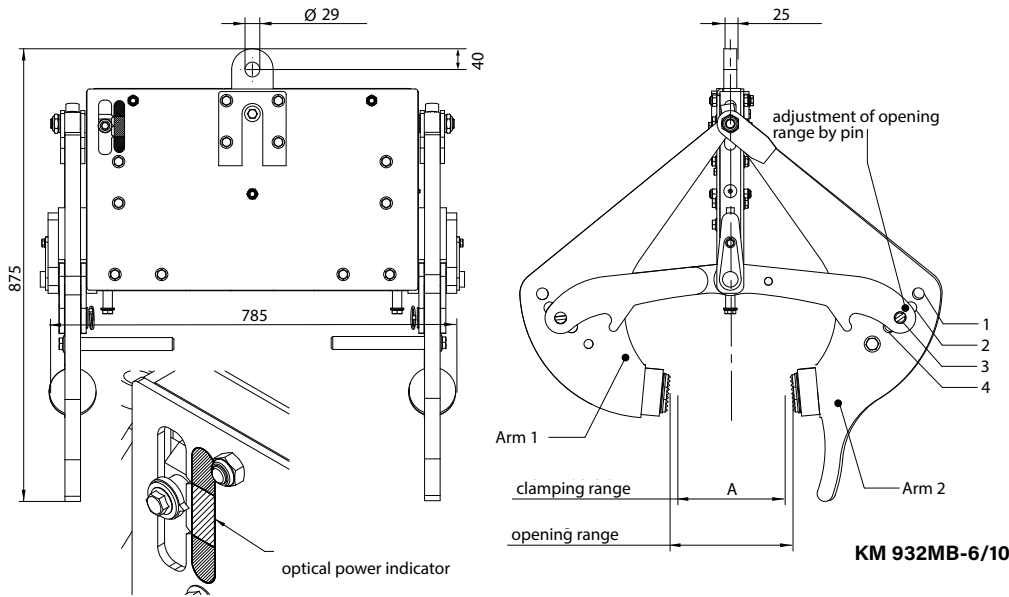
- **Safe:** Carbide gripping pads ensure safe operation, even on wet or coated surfaces.
- **Efficient:** The fully integrated, mechanically operated “latch & release” system allows the unit to function independently, without assistance from an additional operative.
- **Versatile:** Multi-position arms are a standard feature. This means one unit can achieve different gripping ranges by simply changing the position of four pins.
- **Cost-effective:** The elimination of slings and chains means more cycles can be achieved per hour.
- **Fast:** The “latch & release” system.



Barrier Lifter KM 932MB

Type	Gripping range A (mm/in)	Width E (mm/in)	Weight (kg/lbs)	Load capacity (kg/lbs)	Operating weight (t/lbs)
KM 932MB-6/10	115-305 / 4.5-12	760 / 29.9	162 / 356.4	6,580 / 14,476	18-27 / 39,600-59,400
KM 932MB-12/14	295-395 / 11.6-15.6	760 / 29.9	150 / 330	6,580 / 14,476	18-27 / 39,600-59,400

Technical drawings



Demolition and Sorting Grabs 10-37t / 22,000-81,400lbs

D15H-P to D37H-P

Request? exc@kinshofer.com

Robust Demolition and Sorting Grabs for excavators from 10t / 22,000lbs to 37t / 81,400lbs operating weight. Well-suited for demolition and separation of all kinds of building materials and waste.

- **Robust, fully integrated rotation** with sturdy slewing ring to withstand external forces, with connecting hoses located inside the hub. Hydraulic quick change adapters are directly mountable to the head plate. Different bolt patterns are available. **Integrated pressure relief valve** to avoid peak-pressures in rotation motor(s).
- **Exceptional closing forces** provided by two horizontal hydraulic cylinders which are well protected by the carrier.
- The **end position (grab open)** is **hydraulically cushioned** to avoid damage to the cylinder when the grab is pushed into the material.
- The grabs feature **perforated shells** to let fine dust and debris through without larger pieces getting caught. The **durable, replaceable and indexable wear blades** (500HB) enable the grabs to pinch with their edges without excessive



Demolition and Sorting Grabs D15H-P / D20H-P / D24H-P / D27H-P / D37H-P

Type	Width E (mm/in)	Opening A (mm/in)	Height C max. - min. (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Operating weight (t/lbs)
D15H-P-80	800 / 31.5	1,550 / 61.0	1,215 - 1,070 / 47.8 - 42.1	300 / 0.39	630 / 1,386	4,000 / 8,800	27 / 5,940	10 - 15 / 22,000 - 33,000
D20H-P-100	1,000 / 39.4	1,890 / 74.4	1,400 - 1,205 / 55.1 - 47.4	450 / 0.59	1,120 / 2,464	5,000 / 11,000	43 / 9,460	14 - 20 / 30,800 - 44000
D24H-P-100	1,000 / 39.4	2,005 / 78.9	1,470 - 1,235 / 57.9 - 48.6	650 / 0.85	1,175 / 2,585	5,000 / 11,000	42 / 9,240	18 - 24 / 39,600 - 52,800
D27H-P-115	1,150 / 45.3	2,145 / 84.4	1,575 - 1,375 / 62.0 - 54.1	800 / 1.05	1,600 / 3,520	6,000 / 13,200	63 / 13,860	20 - 27 / 44,000 - 59400
D32H-P-120	1,200 / 47.2	2,200 / 86.6	1,590 - 1,460 / 62.6 - 57.5	900 / 1.18	2,050 / 4,510	8,000 / 17,600	89 / 19,580	27 - 32 / 59,400 - 70,400
D37H-P-125	1,250 / 49.2	2,260 / 89.0	1,620 - 1,480 / 63.8 - 58.3	950 / 1.24	2,100 / 4,620	8,000 / 17,600	86 / 18,920	32 - 37 / 70,400 - 81,400

Package consists of: demolition and sorting grab, integrated rotation with sturdy slewing ring, wear blades and non-return valve

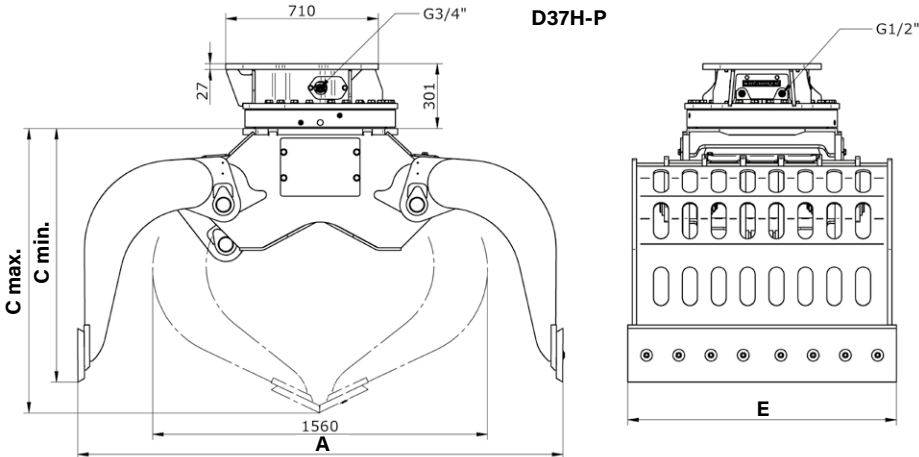
Accessories

Type	Description
KM 690 15t	adapter for rigid mounting – up to 15t/33,000lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
KM 690 32t	adapter for rigid mounting – up to 32t/70,400lbs
OQ	bolt-on-adapter for Oilquick – up to 70t/154,000lbs available
KSW10 rigid	bolt-on-adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs.
KSW21/25 rigid	bolt-on-adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes available on request

Requirements of carrier machine

Operating pressure (open/close):	D15 - D20: max. 32 MPa (320 bar) / 4,640 psi; D24 - D37: max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	D15 - D37: 75 - max. 150 l/min / 20 - max. 40 GPM
Hydraulic connections (rotate):	D15 - D20: G 3/4" / G 1/2"; D24 - D37: G 1" / G 1/2"
Operating pressure (rotate):	D15 - D37: max. 14 MPa (140 bar) / 2,030 psi
Pump capacity (rotate):	D15 - D37: max. 50 l/min / 13 GPM

Technical drawings



Demolition & Sorting Grabs incl. Integrated Adapter

D20H-P-OQ to
D37H-P-OQ

Robust multi purpose grabs with integrated quick change adapter system Oilquick for excavators from 14t / 30,800lbs to 37t / 81,400lbs operating weight. Well-suited for the demolition and seperation of all kinds of building materials and waste.

- **Robust, fully integrated rotation** with sturdy slewing ring to withstand external forces, with connecting hoses located inside the hub. **Integrated pressure relief valve** to avoid peak-pressures.
- **Oilquick quick change adapter integrated, providing a low height.**
- **Exceptional closing forces** provided by two horizontal hydraulic cylinders which are well protected by the carrier.
- The **end position (grab open)** is **hydraulically cushioned** to avoid damage to the cylinder when the grab is pushed into the material.
- The grabs feature **perforated shells** to let fine dust and debris through without larger pieces getting caught. The **durable, replaceable and indexable wear blades** (500HB) enable the grabs to pinch with their edges without excessive wear.



D20H-P-OQ65

Grab with integrated Quick Change Adapter D20H-P-OQ to D37H-P-OQ

Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Height C min. (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Operating weight (t/lbs)
D20H-P-OQ65	1,000/39.4	1,890/ 74.4	-	1,320/ 52.0	450/ 0.59	1,060/ 2,332	5,000/ 11,000	43/ 9,460	14-20/ 30,800-44,000
D24H-P-OQ65	1,000/39.4	2,005/ 79.9	-	1,350/ 52.0	650/ 0.85	1,120/ 2,464	5,000/ 11,000	42/ 9,240	18-24/ 39,600-52,800
D27H-P-OQ70/55	1,150/45.3	2,140/ 84.3	1,700/ 66.9	1,500/ 59.1	800/ 1.05	1,500/ 3,300	6,000/ 13,200	63/ 13,860	20-27/ 44,000-59,400
D32H-P-OQ70/55	1,200/47.2	2,200/ 86.6	1,710/ 67.3	1,580/ 62.2	900/ 1.18	1,960/ 4,312	8,000/ 17,600	89/ 19,580	27-32/ 59,400-70,400
D32H-P-OQ80	1,200/47.2	2,200/ 86.6	1,750/ 68.9	1,620/ 63.8	900/ 1.18	2,000/ 4,400	8,000/ 17,600	89/ 19,580	27-32/ 59,400-70,400
D37H-P-OQ80	1,250/49.2	2,260/ 86.6	1,750/ 68.9	1,610/ 63.4	950/ 1.24	2,100/ 4,620	8,000/ 17,600	86/ 18,920	32-37/ 70,400-81,400

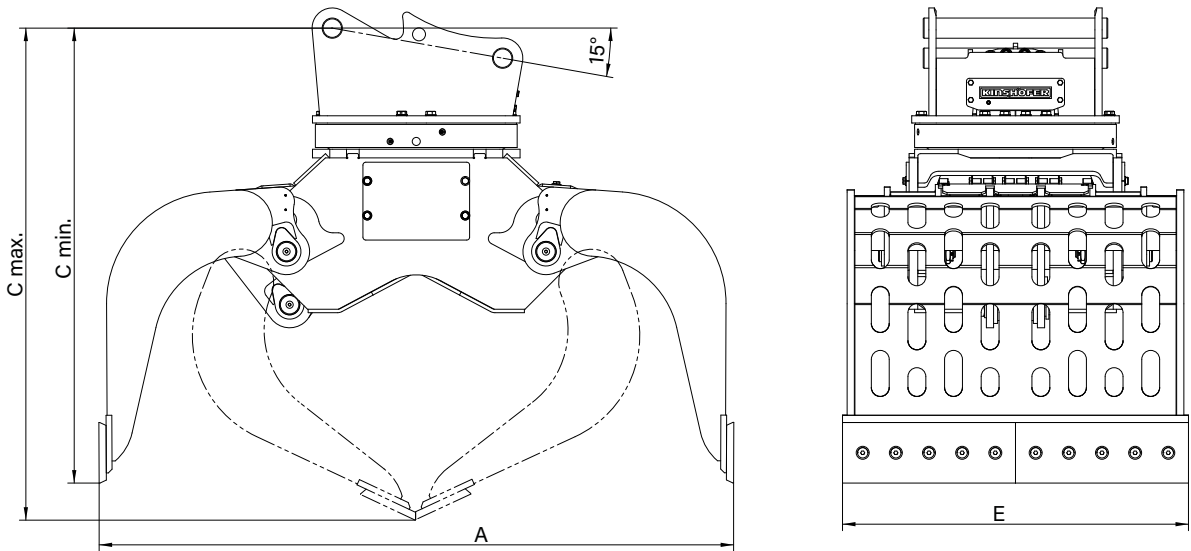
Package consists of: demolition and sorting grab, integrated rotation with adapter for Oilquick, wear blades and non-return valve

Other sizes on request

Requirements of carrier machine

Operating pressure (open/close):	D20/D24/D27: max. 32 MPa (320 bar/4,640psi); D32/D37: max. 35 MPa (350 bar/ 5,070psi)
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40GPM
Operating pressure (rotate):	max. 14 MPa (140 bar/2,030psi)
Pump capacity (rotate):	max. 50 l/min / 13GMP

Technical drawings



Demolition and Sorting Grabs HD

D15H-P HD to D40H-P HD

Robust multi-purpose grab with perforated shells, for excavators up to 50t / 110,000lbs operating weight, the HD D-Series grabs are ideal for demolition and sorting of all kinds of building materials.

- ▷ **Robust Delta-box frame with dust-proof axle bearing points.** Perforated shells let fine dust and gravel through without large pieces getting caught
- ▷ **Durable and reversible cutting edges** can be used to pick up different materials, with their tips. Cutting edges on D19 series and higher can be turned three ways, reducing replacement costs.
- ▷ **Robust, fully integrated rotator** with sturdy slewing ring to withstand external forces, with pressure relief valve to ensure overload protection, and connecting **hoses protected inside the hub.**
- ▷ **Exceptional closing forces** achieved with a horizontally positioned hydraulic cylinder that is protected by the bucket carrier.
- ▷ **Cylinder is hydraulically cushioned.**



D24H-P-100HD

Heavy Duty Demolition and Sorting Grab D15H-P-75HD to D40H-P125HD

Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Torque (Nm/ft.lbs)	Operating weight (t/lbs)
D15H-P-75HD	750 / 29.5	1,730 / 68.1	1,220*** / 48.0	340 / 0.44	855*** / 1,881	5,000 / 11,000	43 / 9,460	3,000 / 2,212.5	10 - 18 / 22,000 - 39,600
D16H-P-90HD	900 / 35.4	1,730 / 68.1	1,220*** / 48.0	415 / 0.54	895*** / 1,969	5,500 / 12,100	43 / 9,460	3,000 / 2,212.5	12 - 20 / 26,400 - 44,000
D19H-P-85HD	850 / 33.5	1,725 / 67.9	1,225 / 48.2	365 / 0.48	1,025 / 2,255	6,500 / 14,300	60 / 13,200	3,000/5,700* / 2,212.5/4,203.8	12 - 24 / 26,400 - 52,800
D20H-P-100HD	1,000 / 39.4	1,865 / 73.4	1,255 / 49.4	480 / 0.63	1,115 / 2,453	7,000 / 15,400	60 / 13,200	3,000/5,700* / 2,212.5/4,203.8	13 - 25 / 28,600 - 55,000
D24H-P-100HD	1,000 / 39.4	1,965 / 77.4	1,340 / 52.8	570 / 0.75	1,315 / 2,893	8,000 / 17,600	62 / 13,640	3,000/5,700* / 2,212.5/4,203.8	15 - 30 / 33,000 - 66,000
D25H-P-100HD	1,000 / 39.4	2,050 / 80.7	1,440*** / 56.7	650 / 0.85	1,450*** / 3,190	7,000 / 15,400	62 / 13,640	5,700** / 4,203.8	18 - 28 / 39,600 - 61,600
D27H-P-120HD	1,200 / 47.2	2,050 / 80.7	1,440*** / 56.7	760 / 0.99	1,495*** / 3,289	8,000 / 17,600	62 / 13,640	5,700** / 4,203.8	20 - 30 / 44,000 - 66,000
D32H-P-110HD	1,100 / 43.3	2,195 / 86.4	1,395 / 54.9	825 / 1.08	1,790 / 3,938	10,500 / 23,100	80 / 17,600	7,000** / 5,162.5	20 - 40 / 44,000 - 88,000
D40H-P-125HD	1,250 / 49.2	2,325 / 91.5	1,480 / 58.3	960 / 1.26	2,010 / 4,422	13,500 / 29,700	92 / 20,240	7,000** / 5,162.5	30 - 50 / 66,000 - 110,000

Package consists of: demolition and sorting grab, integrated rotation with sturdy slewing ring, cutting edges and non-return valve

Optional second heavy duty motor for D19H-P HD, D20H-P HD, D24H-P HD

Note: *optional with 2 motors for rotation **second heavy duty hydraulic motor comes standard ***incl. CW4 (integrated)

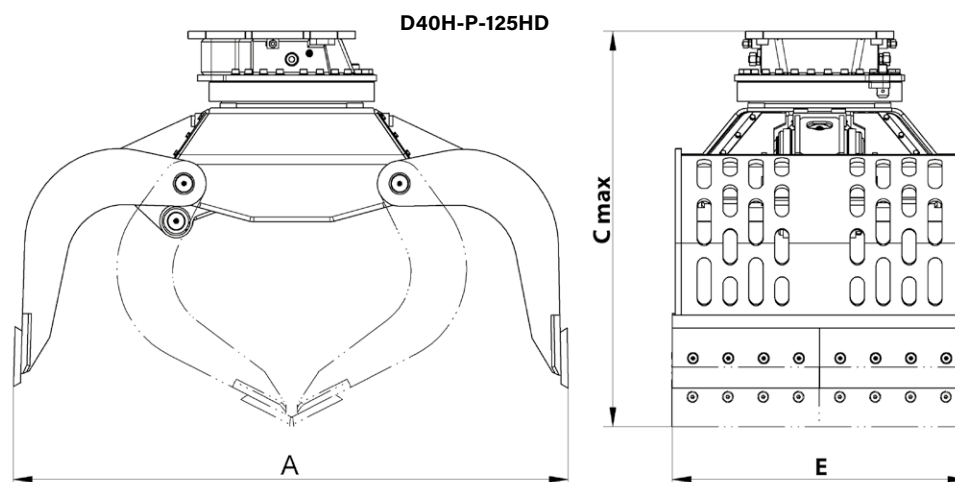
Accessories

Type	Description
KM 690	adapter for rigid mounting – up to 70t/15,4000lbs
OQ	bolt-on-adapter for Oilquick – up to 70t/15,4000lbs available
KSW rigid	bolt-on-adapter for system L-Lock KMS-L/KHS-L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes available on request

Requirements of carrier machine

Operating pressure (open/close):	D15-D40: max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	D15/16: max. 80 l/min / 21 GPM; D19-27: max. 100 l/min / 26.5 GPM; D32-40: max. 120 l/min / 32 GPM
Operating pressure (rotate):	D15-D40: max. 14 Mpa (140 bar) / 2,030 psi
Pump capacity (rotate):	D15-D24: max. 40 l/min / 10.5 GPM; D25-D40: 40 - max. 60 l/min / 10.5 - max. 16 GPM

Technical drawings



Mounting Options for Hydraulic Attachments - rigid mount

KM 690 – adapter for rigid mount



Type	Operating weight (t/lbs)
KM 690 15t	up to 15 / 33,000
KM 690 20t	up to 20 / 44,000
KM 690 27t	up to 27 / 59,400
KM 690 32t	up to 32 / 70,400
KM 690 40t	up to 40 / 88,000

KM 691 – adapter for specific solutions



Type	Operating weight (t/lbs)
KM 691 15t	up to 15 / 33,000
KM 691 20t	up to 20 / 44,000
KM 691 27t	up to 27 / 59,400

KSW rigid – bolt-on adapter for quick coupler system L-Lock



Type	for quick coupler System L-Lock	Operating weight (t/lbs)
KSW10 rigid	KMS10L / KHS10L	up to 19 / 41,800
KSW21/25 rigid	KMS21/25L / KHS21/25L	up to 40 / 88,000

S rigid – bolt-on adapter for quick coupler system S-Lock



Type	for quick coupler System S-Lock	Operating weight (t/lbs)
S60 rigid	KMS60S / KHS60S	up to 18 / 39,600
S70 rigid	KMS70S / KHS70S	up to 30 / 66,000

Note: adapters for quick change systems for other manufacturers or other sizes on request

Mounting Options for Hydraulic Attachments - rigid mount

OQ - bolt-on adapter for system „Oilquick“ incl. hoses



Type	For attachments	Operating weight (t/lbs)
OQ60/2 rigid	breakers	8 - 15 / 17,600 - 33,000
OQ60/4 rigid	grabs, shears	8 - 15 / 17,600 - 33,000
OQ60-5/2 rigid	breakers	8 - 15 / 17,600 - 33,000
OQ60-5/3 rigid	compactors, planers	8 - 15 / 17,600 - 33,000
OQ60-5/4 rigid	grabs, shears	8 - 15 / 17,600 - 33,000
OQ65/2 rigid	breakers	14 - 22 / 30,800 - 48,400
OQ65/3 rigid	compactors, planers	14 - 22 / 30,800 - 48,400
OQ65/4 rigid	grabs, shears	14 - 22 / 30,800 - 48,400
OQ70/2 rigid	breakers	15 - 28 / 33,000 - 61,600
OQ70/3 rigid	compactors, planers	15 - 28 / 33,000 - 61,600
OQ70/4 rigid	grabs, shears	15 - 28 / 33,000 - 61,600
OQ70/55/2 rigid	breakers	18 - 32 / 39,600 - 70,400
OQ70/55/3 rigid	compactors, planers	18 - 32 / 39,600 - 70,400
OQ70/55/4 rigid	grabs, shears	18 - 32 / 39,600 - 70,400
OQ80/2 rigid	breakers	25 - 43 / 55,000 - 94,600
OQ80/3 rigid	compactors, planers	25 - 43 / 55,000 - 94,600
OQ80/4 rigid	grabs, shears	25 - 43 / 55,000 - 94,600

SW - bolt-on adapter for system „Liebherr“



Type	Operating weight (t/lbs)
SW48 rigid	14 - 30 / 30,800 - 66,000
SW48 Likufix rigid*	14 - 30 / 30,800 - 66,000
SW66 rigid	28 - 45 / 61,600 - 99,000
SW66 Likufix rigid*	28 - 45 / 61,600 - 99,000

*incl. hoses

CW - bolt-on adapter for system „Verachttert“



Type	Operating weight (t/lbs)
CW30 rigid	15 - 25 / 33,000 - 55,000
CW40 rigid	20 - 30 / 44,000 - 66,000
CW45 rigid	25 - 40 / 55,000 - 88,000
CW30S rigid**	15 - 25 / 33,000 - 55,000
CW40S rigid**	20 - 30 / 44,000 - 66,000
CW45S rigid**	25 - 40 / 55,000 - 88,000

**smaller S-version

Note: adapters for quick change systems for other manufacturers or other sizes on request

Robust grabs for excavators with revolutionary exchange system in a single device. As a new demand on site arises, the attachment can be exchanged and the new application can commence. Easy remounting of shells for excavating, landscaping, laying pipes, logging, rail track handling etc.

- **Efficiency:** only the shells are replaced; exchange is possible with only one person
- **Fastness:** easy exchange of the lynch pin from the change-over system within 4 minutes, no hydraulic work necessary
- **Robust technics:** compact design through the integrated rotator. Robust shell bearing with coexisting change mechanism



Clamshell buckets with exchangeable shells are available for

- excavators up to 8t/17600lbs: C08VE / T08VE / R08VE and more
- excavators up to 12t/26400lbs: C12VE / T12VE / R12VE and more

Rock tines



Clamshell bucket



Foundation shells



Well shaft shells

Module



Pipe grab



Timber tines



Rail tines



Hay and forestry tines



Start

Close bucket and set it down. Mount the exchange support.



0.58 min.

Remove the lynch pin from the change-over system.



1.67 min.

Remove the change-over pin with extraction tool.



2.50 min.

Position the bucket carrier over the new attachment and close the locking unit hydraulically.



3.75 min.

Insert the change-over pin and fasten the lynch pin.



4 min. ready!

Remove the exchange support. Ready for use!

Clamshell Bucket w/exchangeable shells 13-18t / 28,600-39,600lbs

C18VE

Clamshell Bucket with exchangeable shells and vertical cylinders for excavators from 13t/28600lbs to 18t/39600lbs operating weight – through quick and easy exchange of shells, the C18VE is ideal for different applications, for excavation operations, landscaping, trench digging, handling of logs and more. The shells can be changed in less than four minutes.

- **Economic solution** as only the shells have to be exchanged for another application. Bucket carrier, hydraulic cylinder and bearings are integrated into the unit.
- **Long life** is ensured due to the use of 500HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Excellent digging characteristics** are the result of high closing forces (42 kN / 9,240 lbf at 35 MPa / 5,070 psi operating pressure, varies depending on width).



Clamshell Bucket C18VE								
Type	Width	Opening	Height	Length	Volume	Number of teeth	Weight	Load capacity
	E (mm/in)	A (mm/in)	C max. (mm/in)	F (mm/in)	(liter/c.y.)		(kg/lbs)	(kg/lbs)
C18VE-33	335 / 13.2	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	125 / 0.16	3	590 / 1,298	4,500 / 9,900
C18VE-40	400 / 15.8	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	160 / 0.21	3	605 / 1,331	4,500 / 9,900
C18VE-50	500 / 19.7	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	200 / 0.26	5	630 / 1,386	4,500 / 9,900
C18VE-60	600 / 23.6	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	245 / 0.32	5	655 / 1,441	4,500 / 9,900
C18VE-80	800 / 31.5	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	330 / 0.43	9	705 / 1,551	4,500 / 9,900
C18VE-100	1,000 / 39.4	1,655 / 65.2	1,595 / 62.8	1,360 / 53.5	415 / 0.54	9	755 / 1,661	4,500 / 9,900

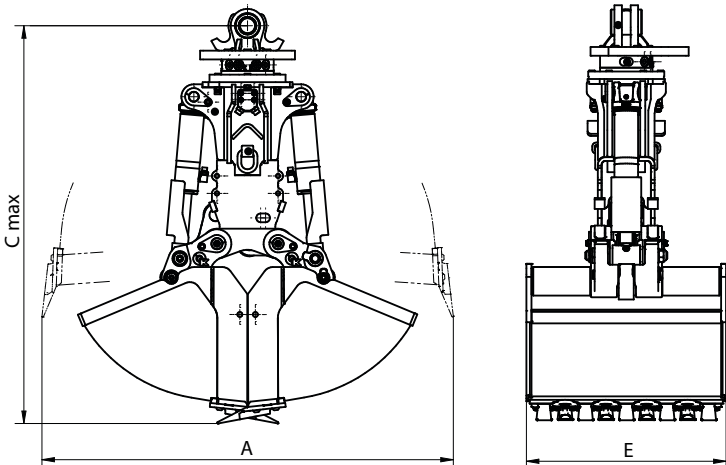
Package consists of: clamshell bucket, bolt-on teeth, **KINSHOFER** rotator with hose guard, 2 weld-on eyes, shell exchange aid kit and non-return valve

KINSHOFER Rotator			
Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.			
Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 10 F275-60	125 x 60 / 4.9 x 2.4	1,500 / 1,106.3	14,000 / 10,325

Accessories	
Type	Description
KM 501 13t-25t	upper suspension without pendulum damper
KM 511 13t-25t	upper suspension with pendulum damper
KM 510 13t-25t	single pendulum damper
KSW10 cardanic	adapter for system L-Lock KMS10L/KHS10L incl. cardan link excl. pendulum damper – up to 19t/41,800lbs
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper – up to 40t/88,000lbs
adapters for quick change systems from other manufacturers or different sizes on request	
KM 680 C18VE	scraper

Requirements of carrier machine	
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Recommended pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40 GPM
Operating pressure (rotate):	max. 32 MPa (320 bar) / 4,640 psi
Recommended pump capacity (rotate):	20 - max. 50 l/min/ 5 - max. 13 GPM

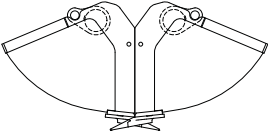
Technical drawing

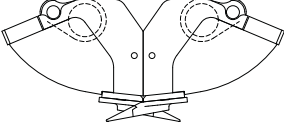


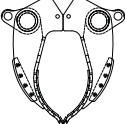
Exchangeable Shells for C18VE


Exchangeable Shells for C18VE

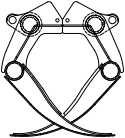
Shells are interchangeable and available in all widths. Rapid exchange with shell stand and pin exchange tool.

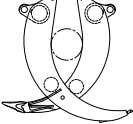
Type	Width (mm/in)	Opening (mm/in)	Height complete (mm/in)	Volume (liter/c.y.)	Number of teeth	Weight shells (kg/lbs)	Loading capacity (kg/lbs)	Closing force (kN/lbf)
Clamshell Bucket								
								
C18VE-33S	335 / 13.2	1,655 / 65.2	1,595 / 62.8	125 / 0.16	3	160 / 352	4,500 / 9,900	42 / 9,240
C18VE-40S	400 / 15.8	1,655 / 65.2	1,595 / 62.8	160 / 0.21	3	180 / 396	4,500 / 9,900	42 / 9,240
C18VE-50S	500 / 19.7	1,655 / 65.2	1,595 / 62.8	200 / 0.26	5	195 / 429	4,500 / 9,900	42 / 9,240
C18VE-60S	600 / 23.6	1,655 / 65.2	1,595 / 62.8	245 / 0.32	5	225 / 495	4,500 / 9,900	42 / 9,240
C18VE-80S	800 / 31.5	1,655 / 65.2	1,595 / 62.8	330 / 0.43	9	275 / 605	4,500 / 9,900	42 / 9,240
C18VE-100S	1,000 / 39.4	1,655 / 65.2	1,595 / 62.8	415 / 0.54	9	325 / 715	4,500 / 9,900	42 / 9,240

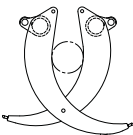
Excavating Grab								
								
C18VE-33S EG	335 / 13.2	1,205 / 47.4	1,430 / 56.3	90 / 0.12	3	125 / 275	4,500 / 9,900	57 / 12,540
C18VE-40S EG	400 / 15.8	1,120 / 44.1	1,385 / 54.5	55 / 0.07	3	130 / 286	4,500 / 9,900	60 / 13,200
C18VE-80S EG	800 / 31.5	820 / 32.3	1,380 / 54.3	100 / 0.13	9	185 / 407	4,500 / 9,900	69 / 15,180

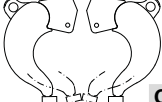
Pipe Grab								
								
C18VE-83S PG	830 / 32.7	Ø100 - Ø 600/ Ø3.9 - Ø23.6	1,625 / 64	Ø 600 mm/ Ø23.6		295* / 649	4,500 / 9,900	41 / 9,020
*incl. support								

Well Shaft Grab								
								
C18VE-97S WSG	Ø 970 / Ø38.2	970 / 38.2	1,410 / 55.5	110 / 0.14	5	170 / 374	4,500 / 9,900	65 / 14,300
note: larger shells available on request								

Hay and Forestry Grab								
								
A18VE-95S	955 / 37.6	1,830 / 72	1,685 / 66.3	400 / 0.52		225 / 495	4,500 / 9,900	41 / 9,020
A18VE-122S	1,220 / 48	1,835 / 72.2	1,725 / 67.9	600 / 0.78		275 / 605	4,500 / 9,900	32 / 7,040

Rock Grab								
								
R18VE-49S	490 / 19.3	1,850 / 72.8	1,820 / 71.7	m ² / cord 0.50 / 0.34		195 / 429	4,500 / 9,900	33 / 7,260

Timber Grab								
								
T18VE-49S-0,5	490 / 19.3	1,830 / 72	1,825 / 71.9	m ² / cord 0.50 / 0.34		200 / 440	4,500 / 9,900	30 / 6,600
T18VE-49S-0,6	490 / 19.3	1,975 / 77.8	1,905 / 75	0.60 / 0.40		220 / 484	4,500 / 9,900	33 / 7,260

Rail Tines								
								
C18VE-50S RG	500 / 19.7	1,250 / 49.2	1,400 / 55.1	-		130 / 286	4,500 / 9,900	44 / 9,680

Package consists of: shells, teeth (for clamshell bucket, excavating and well shaft grab), shell exchange aid kit and pin extraction tool

Note: special shells on request

Clamshell Bucket w/exchangeable shells 19-25t / 41,800-55,000lbs

C25VE

Clamshell Bucket with exchangeable shells and vertical cylinders for excavators from 19t / 41,800lbs to 25t / 55,000lbs operating weight – through quick and easy exchange of shells, the C25VE is ideal for different applications, for excavation operations, landscaping, trench digging, handling of logs and more. The shells can be changed in less than four minutes.

- **Economic solution** as only the shells have to be exchanged for another application. Bucket carrier, hydraulic cylinder and bearings are integrated into the unit.
- **Long life** is ensured due to the use of 500HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Excellent digging characteristics** are the result of high closing forces (60kN / 13,200lbf at 35 MPa / 5,070psi operating pressure, varies depending on width).



Clamshell Bucket C25VE								
Type	Width E (mm/in)	Opening A (mm/in)	Height C max.(mm/in)	Length F (mm/in)	Volume (liter/c.y.)	Number of teeth	Weight (kg/lbs)	Load capacity (kg/lbs)
C25VE-42	420 / 16.5	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	210 / 0.27	3	950 / 2,090	6,000 / 13,200
C25VE-50	500 / 19.7	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	250 / 0.33	4	980 / 2,156	6,000 / 13,200
C25VE-60	600 / 23.6	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	305 / 0.40	5	1,010 / 2,222	6,000 / 13,200
C25VE-80	800 / 31.5	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	410 / 0.54	7	1,080 / 2,376	6,000 / 13,200
C25VE-100	1,000 / 39.4	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	520 / 0.68	7	1,180 / 2,596	6,000 / 13,200
C25VE-120	1,200 / 47.2	1,940 / 76.4	1,940 / 76.4	1,700 / 66.9	625 / 0.82	9	1,250 / 2,750	6,000 / 13,200

Package consists of: clamshell bucket, bolt-on teeth, rotator with hose guard, 2 weld-on eyes, shell exchange aid kit and non-return valve

Exchangeable Shells C25VE-S					
Type	Width E (mm/in)	Volume (liter/c.y.)	Number of teeth	Weight (kg/lbs)	Load capacity (kg/lbs)
C25VE-42S	420 / 16.5	210 / 0.27	3	350 / 770	6,000 / 13,200
C25VE-50S	500 / 19.7	250 / 0.33	4	390 / 858	6,000 / 13,200
C25VE-60S	600 / 23.6	305 / 0.40	5	420 / 924	6,000 / 13,200
C25VE-80S	800 / 31.5	410 / 0.54	7	490 / 1,078	6,000 / 13,200
C25VE-100S	1,000 / 39.4	520 / 0.68	7	580 / 1,276	6,000 / 13,200
C25VE-120S	1,200 / 47.2	625 / 0.82	9	650 / 1,430	6,000 / 13,200

Package consists of: exchangeable shells, exchange aid kit and extraction tool for pin

Note: special shells available on request

KINSHOFER Rotator

Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.

Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 15 F340-70	180 x 70 / 7.1 x 2.8	3,000 / 2,212.5	25,000 / 18,437.5

Accessories	
Type	Description
KM 501 19t-60t	upper suspension without pendulum damper
KM 511 19t-60t	upper suspension with pendulum damper
KM 510 19t-60t	single pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper – up to 40t/88,000lbs adapters for quick change systems from other manufacturers or different sizes on request
KM 680 C25VE	scraper

Requirements of carrier machine		Technical drawing
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi	
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40 GPM	
Operating pressure (rotate):	max. 32 MPa (320 bar) / 4,640 psi	
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM	

Re-handling Clamshell Bucket 18-30t / 39,600-66,000lbs

C30V

Durable Re-handling Clamshell Bucket, especially for loading bulk materials for excavators from 18t/39,600lbs to 25t/55,000lbs, as well as re-handling excavator from 20t/44,000lbs to 30t/66,000lbs.

- Optimal loading due to high volume of the torsion-resistant shells and precise positioning thanks to flat, robust 15t-rotator.
- Long life is ensured thanks to wear-resistant shells and hardened pins and bushings. All breaing points are sealed.
- Excellent digging characteristics are the result of high closing forces due to two vertical cylinders.
- Non-return valve is optionally available.



Re-handling Clamshell Bucket C30V								
Type	Opening A (mm/in)	Width E (mm/in)	Length F (mm/in)	Height C min. (mm/in)	Height C max. (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)
C30V-100-21	2,100 / 82.7	1,000 / 39.4	1,740 / 68.6	1,460 / 57.5	2,130 / 83.9	830 / 1.09	1,050 / 2,310	6,000 / 13,200
C30V-120-21	2,100 / 82.7	1,200 / 47.2	1,740 / 68.6	1,460 / 57.5	2,130 / 83.9	1,000 / 1.31	1,150 / 2,530	6,000 / 13,200
C30V-150-21	2,100 / 82.7	1,500 / 59.1	1,740 / 68.6	1,460 / 57.5	2,130 / 83.9	1,250 / 1.64	1,220 / 2,684	6,000 / 13,200
C30V-180-21	2,100 / 82.7	1,800 / 70.87	1,740 / 68.6	1,460 / 57.5	2,130 / 83.9	1,500 / 1.96	1,290 / 2,838	6,000 / 13,200
C30V-180-23	2,300 / 90.6	1,800 / 70.87	1,885 / 74.2	1,465 / 57.7	2,230 / 87.8	1,800 / 2.35	1,300 / 2,860	6,000 / 13,200
C30V-200-23	2,300 / 90.6	2,000 / 78.7	1,885 / 74.2	1,465 / 57.7	2,230 / 87.8	2,000 / 2.62	1,350 / 2,970	6,000 / 13,200

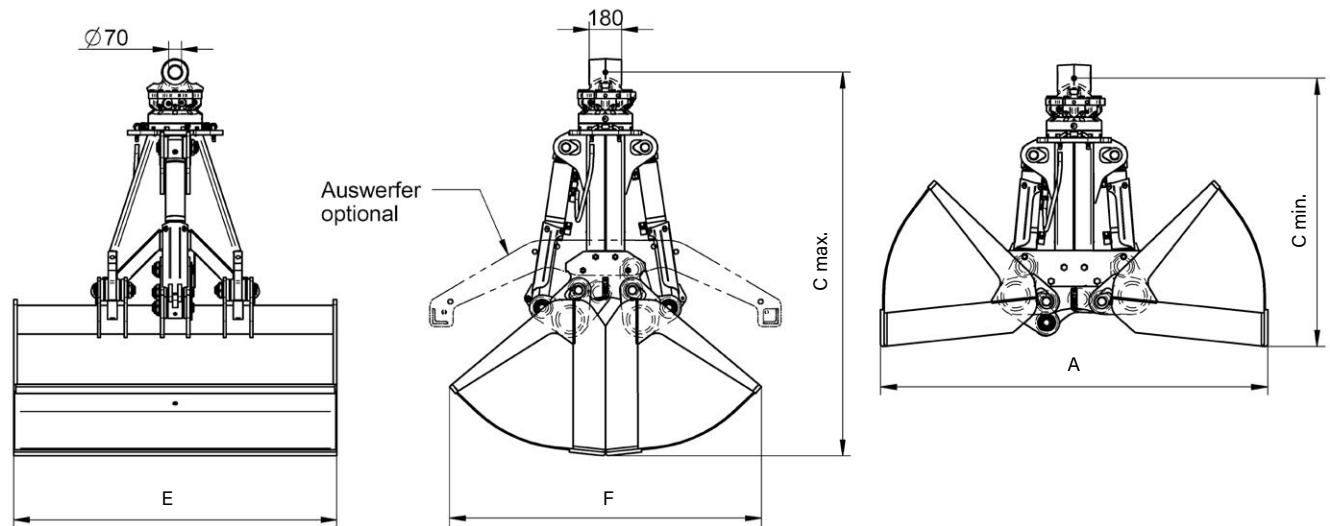
Package consists of: re-handling clamshell bucket, **KINSHOFER** rotator

KINSHOFER Rotator			
Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.			
Type	Upper connection (width x Ø-pin) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 15 F273/273	180 x Ø 70 / 71 / Ø2.76	2,000 / 1,475	50,000 / 36,875

Type	Description
KM 501 19t-60t	upper suspension without pendulum damper
KM 511 19t-60t	upper suspension with pendulum damper
KM 510 19t-60t	single pendulum damper
KM 680 C30V	scraper for C30V - specify width and opening when ordering alone

Requirements of carrier machine	
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - max. 53 GPM
Operating pressure (rotate):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (rotate):	20 - 50 l/min / 5.3 - 13.2 GPM

Technical drawing



Re-handling Clamshell Bucket 18-40t/ 39,600-88,000lbs

C40VHD

Durable Re-handling Clamshell Bucket, especially for loading bulk materials for excavators from 18t / 39,600lbs to 25t / 55,000lbs, as well as re-handling excavators from 20t / 44,000lbs to 40t / 88,000lbs.

- **Optimal loading** due to high volume of the torsion-resistant shells and precise positioning thanks to **integrated rotation**.
- **Long life** is ensured due to the use of 500HB steel in the manufacture of cutting edges. Shell back walls (8 mm/0.3in, 400HB) also resist highly abrasive materials. Bearing points with **specially coated bushings and hardened pins**.
- **Wear resistant shells**. C40VHD-C: due to closed shells ideal for very fine-grained loads (e.g. fertilizer).
- With **integrated rotation**: Swivel and bevel sealed. Rotary feedthrough and motor accessible directly.
- **Excellent digging characteristics** are the result of high closing forces due to two vertical cylinders.
- **Non-return valve** is optionally available.



C40VHD-24

Re-handling Clamshell Buckets with open shells C40VHD

Type	Opening (mm/in)	Width E (mm/in)	Height C (mm/in)	Volume (liter/c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)
C40VHD-125-24	2,400 / 94.5	1,250 / 49.2	2,530 / 99.6	1,250 / 1.64	1,670 / 3,674	7,000 / 15,400
C40VHD-150-24	2,400 / 94.5	1,500 / 59.1	2,530 / 99.6	1,500 / 1.96	1,700 / 3,740	7,000 / 15,400
C40VHD-175-24	2,400 / 94.5	1,750 / 68.9	2,530 / 99.6	1,750 / 2.29	1,770 / 3,894	7,000 / 15,400
C40VHD-200-24	2,400 / 94.5	2,000 / 78.7	2,530 / 99.6	2,000 / 2.62	1,920 / 4,224	7,000 / 15,400
C40VHD-125-26	2,600 / 102.4	1,250 / 49.2	2,640 / 59.1	1,560 / 2.04	1,680 / 3,696	7,000 / 15,400
C40VHD-150-26	2,600 / 102.4	1,500 / 59.1	2,640 / 59.1	1,875 / 2.45	1,760 / 3,872	7,000 / 15,400
C40VHD-175-26	2,600 / 102.4	1,750 / 68.9	2,640 / 59.1	2,190 / 2.86	1,830 / 4,026	7,000 / 15,400
C40VHD-180-26	2,600 / 102.4	1,800 / 70.9	2,640 / 59.1	2,300 / 3.01	1,850 / 4,070	7,000 / 15,400
C40VHD-200-26	2,600 / 102.4	2,000 / 78.7	2,640 / 59.1	2,500 / 3.27	1,990 / 4,378	7,000 / 15,400
C40VHD-150-28	2,800 / 110.2	1,500 / 59.1	2,740 / 107.9	2,250 / 2.94	1,870 / 4,114	7,000 / 15,400
C40VHD-175-28	2,800 / 110.2	1,750 / 68.9	2,740 / 107.9	2,600 / 3.40	1,960 / 4,312	7,000 / 15,400
C40VHD-200-28	2,800 / 110.2	2,000 / 78.7	2,740 / 107.9	3,000 / 3.92	2,050 / 4,510	7,000 / 15,400
C40VHD-230-28	2,800 / 110.2	2,300 / 90.6	2,740 / 107.9	3,500 / 4.58	2,150 / 4,730	7,000 / 15,400
C40VHD-150-30	3,000 / 118.1	1,500 / 59.1	2,820 / 111	2,600 / 3.40	1,920 / 4,224	7,000 / 15,400
C40VHD-175-30	3,000 / 118.1	1,750 / 68.9	2,820 / 111	3,000 / 3.92	2,010 / 4,422	7,000 / 15,400
C40VHD-200-30	3,000 / 118.1	2,000 / 78.7	2,820 / 111	3,500 / 4.58	2,100 / 4,620	7,000 / 15,400
C40VHD-230-30	3,000 / 118.1	2,300 / 90.6	2,820 / 111	4,000 / 5.23	2,250 / 4,950	7,000 / 15,400

Re-handling Clamshell Buckets with closed shells C40VHD-C (other opening widths on request)

Type	Opening (mm/in)	Width E (mm/in)	Height C (mm/in)	Volume (liter/ c.y.)	Weight (kg/lbs)	Load capacity (kg/lbs)
C40VHD-125-26-C	2,600 / 102.4	1,250 / 49.2	2,640 / 59.1	1,875 / 2.45	1,870 / 4114	7,000 / 15,400
C40VHD-150-26-C	2,600 / 102.4	1,500 / 59.1	2,640 / 59.1	2,250 / 2.94	1,970 / 4334	7,000 / 15,400
C40VHD-175-26-C	2,600 / 102.4	1,750 / 68.9	2,640 / 59.1	2,625 / 3.43	2,070 / 4554	7,000 / 15,400
C40VHD-200-26-C	2,600 / 102.4	2,000 / 78.7	2,640 / 59.1	3,000 / 3.92	2,180 / 4796	7,000 / 15,400

All package consists of: re-handling clamshell bucket, **KINSHOFER** rotation (pin-Ø 70mm/2.8in / lug distance 227mm/8.9in)

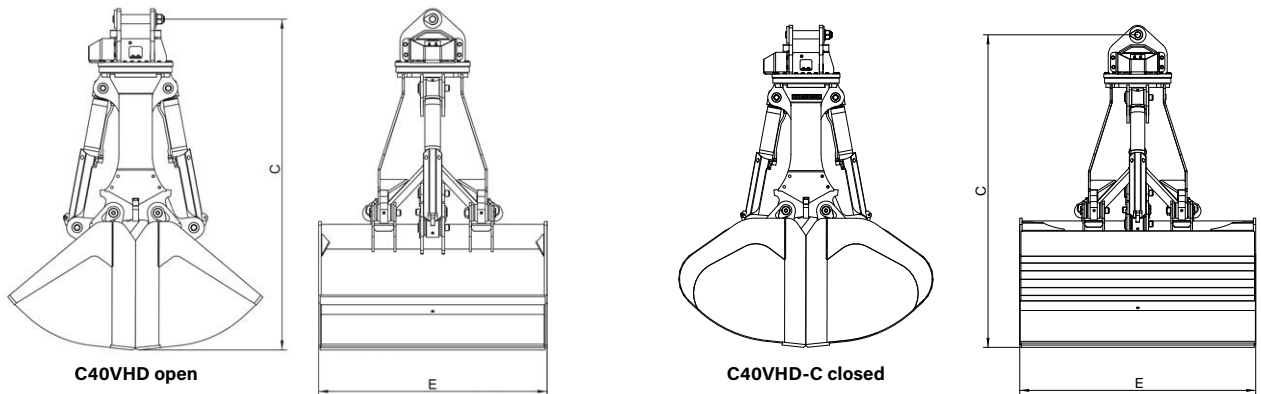
Accessories

Type	Description
KM 501 RD50	upper suspension without pendulum damper
KM 680 C40VHD	scraper, weight approx. 250kg/550lbs - specify width and opening when ordering alone

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - max. 53GPM
Operating pressure (rotate):	max. 14 MPa (140 bar) / 2,030psi
Pump capacity (rotate):	20 - 30 l/min / 5 - 8GPM

Technical drawings



Request? scs@kinshofer.com

Mounting Options for Hydraulic Attachments - cardanic mount

KM 501 - upper suspension without pendulum damper - specify excavator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 501 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 501 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KM 511 - upper suspension with pendulum damper - specify excavator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 511 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 511 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KM 510 - single pendulum damper without upper suspension - specify rotator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 510 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 510 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KSW cardanic - adapter for quick coupler system L-Lock incl. cardan link excl. pendulum damper



Type	for quick coupler System L-Lock	Operating weight (t/lbs)
KSW10 cardanic	KMS10L / KHS10L	up to 19 / 41,800
KSW21/25 cardanic	KMS21/25L / KHS21/25L	up to 40 / 88,000

S cardanic - adapter for quick coupler system S-Lock incl. cardan link excl. pendulum damper



Type	for quick coupler System S-Lock	Operating weight (t/lbs)
S60 cardanic	KMS60S / KHS60S	up to 18 / 39,600
S70 cardanic	KMS70S / KHS70S	up to 30 / 66,000

OQ cardanic - upper suspension with pendulum damper incl. adapter „Oilquick“ and hoses



Type	Operating weight (t/lbs)
OQ60 cardanic	8 - 15 / 17,600 - 33,000
OQ60-5 cardanic	8 - 15 / 17,600 - 33,000
OQ65 cardanic	14 - 22 / 30,800 - 48,400
OQ70 cardanic	15 - 28 / 33,000 - 61,600
OQ70/55 cardanic	18 - 32 / 39,600 - 70,400
OQ80 cardanic	25 - 43 / 55,000 - 94,600

SW cardanic - upper suspension with pendulum damper incl. adapter „Liebherr“



Type	Operating weight (t/lbs)
SW48 cardanic	14 - 30 / 30,800 - 66,000
SW48 Likufix cardanic*	14 - 30 / 30,800 - 66,000
SW66 cardanic	28 - 45 / 61,600 - 99,000
SW66 Likufix cardanic*	28 - 45 / 61,600 - 99,000

*incl. hoses

CW cardanic - upper suspension with pendulum damper incl. adapter „Verachtert“



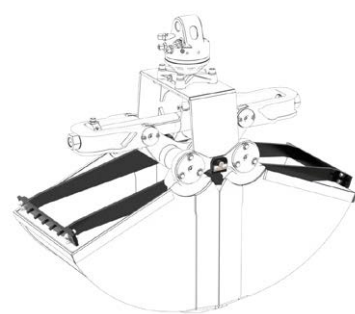
Type	Operating weight (t/lbs)
CW30 cardanic	15 - 25 / 33,000 - 55,000
CW40 cardanic	20 - 30 / 44,000 - 66,000
CW45 cardanic	25 - 40 / 55,000 - 88,000
CW30S cardanic**	15 - 25 / 33,000 - 55,000
CW40S cardanic**	20 - 30 / 44,000 - 66,000
CW45S cardanic**	25 - 40 / 55,000 - 88,000

**smaller S-version

Note: adapters for quick change systems for other manufacturers or other sizes on request

Additional and Small Parts

Accessories



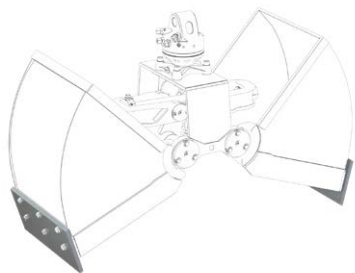
TypeDescription

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

* specify width of grab when ordering



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



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

KM 685 09E	bolt-on side plates (specify grab type when ordering)
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KM 980-2 2t-8t c	solenoid valve for additional oil circuit, up to 26MPa (260 bar/ 3,770psi), incl. parts and mounting
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5-Finger Timber Grab 11-27t / 24,200-59,400lbs

D15H-T / D20H-T / D27H-T

The robust 5-finger timber grab combines the strength of the demolition and sorting grabs of the D-series with highly wear resistant timber grab tines. For excavators of up to 15t / 33,000lbs, 20t / 44,000lbs or 27t / 59,400lbs operating weight - ideal for forestry works, rolled lumber, special demolition tasks and pile foundations.

- Kinematics of tines avoids clamping of material - made of highly wear resistant material (500HB).
- **Branches with only 100mm / 3.9in diameter** can be gripped firmly.
- **Robust, fully integrated rotation** with two motors and sturdy slewing ring to withstand external forces. Hydraulic quick exchange systems are mountable directly. **Integrated pressure relief valve** against overcharge.
- **Exceptional closing forces** through two horizontally positioned hydraulic cylinders that are protected by the bucket carrier.
- **Cylinders are hydraulically cushioned.**



D20H-T

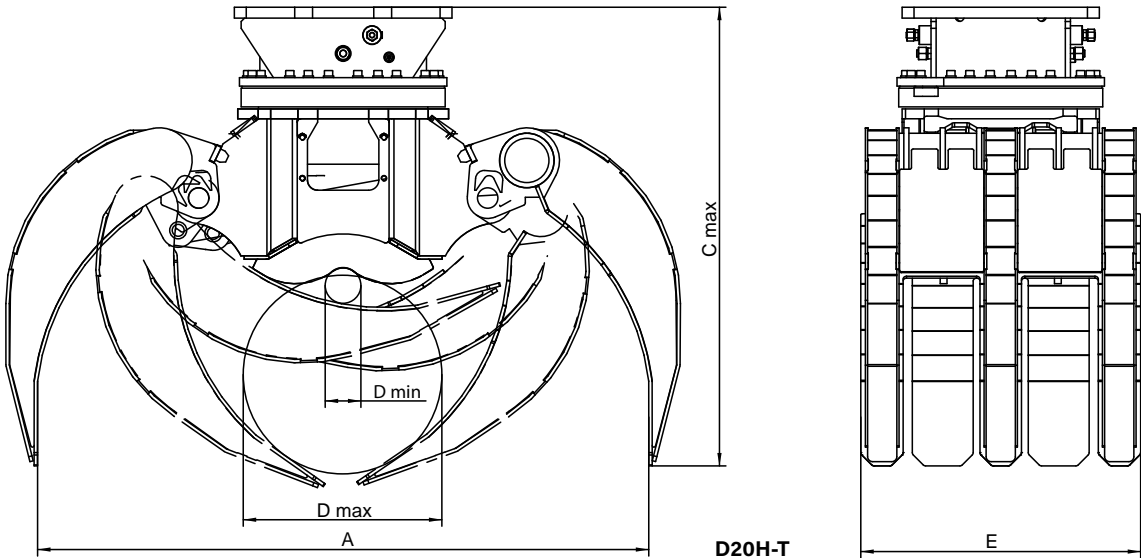
Timber Grab D15H-T / D20H-T / D27H-T										
Type	Width E (mm/in)	Opening A (mm/in)	Log-Ø D min. (mm/in)	Log-Ø D max. (mm/in)	Height C max. (mm/in)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)	Torque (Nm/ft.lbs)	Operating weight (t/lbs)
D15H-T	740 / 29.1	740 / 29.1	100 / 3.9	500 / 19.7	1,040 / 40.9	690 / 1518	3,000 / 6,600	37 / 8,140	5,700 / 5,204	11 - 15 / 24,200 - 33,000
D20H-T	825 / 32.5	825 / 32.5	100 / 3.9	580 / 22.8	1,350 / 53.1	1,045 / 2,299	4,000 / 8,800	42 / 9,240	5,700 / 5,204	14 - 20 / 30,800 - 44,000
D27H-T	1,000 / 39.4	1,000 / 39.4	125 / 4.9	700 / 27.6	1,655 / 65.2	1,665 / 3,663	6,000 / 13,200	59 / 12,980	5,700 / 5,204	18 - 27 / 39,600 - 59,400

Package consists of: timber grab, integrated rotation with sturdy slewing ring and non-return valve

Accessories	
Type	Description
KM 690 15t	adapter for rigid mounting – up to 15t/33,000lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
OQ	bolt-on-adapter for Oilquick OQ – 5t to 70t/11000lbs to 15,4000lbs
KSW10 rigid	bolt-on-adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs
KSW21/25 rigid	bolt-on-adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes available on request

Requirements of carrier machine			
	D15H-T	D20H-T	D27H-T
Operating pressure (open/close):	32 MPa (320 bar) / 4,640 psi	32 MPa (320 bar) / 4,640 psi	35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	75 - max. 150 l/min/ 20 - max. 40 GPM	75 - max. 150 l/min/ 20 - max. 40 GPM	75 - max. 150 l/min/ 20 - max. 40 GPM
Hydraulic connection (open/close):	G 3/4" / G 1/2"	G 3/4" / G 1/2"	G 1" / G 1/2"
Operating pressure (rotate):	17 Mpa (170 bar) / 2,460 psi	17 Mpa (170 bar) / 2,460 psi	17 Mpa (170 bar) / 2,460 psi
Pump capacity (rotate):	25 - max. 60 l/min/ 6.5 - max. 16 GPM	25 - max. 60 l/min/ 6.5 - max. 16 GPM	25 - max. 60 l/min/ 6.5 - max. 16 GPM

Technical drawing



Timber Grab 13-20t / 28,600-44,000lbs

T20V

Timber grabs for mobile excavators and static excavators from 13t / 28,600lbs to 20t / 44,000lbs operating weight.

- **Long life** is ensured due to the use of 500HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Rotator integrated** in the gripping arm carrier
- **Excellent closing characteristics.**
- **360° endless rotation** mounted directly without short hoses.
- **Hydraulically cushioned cylinders.**



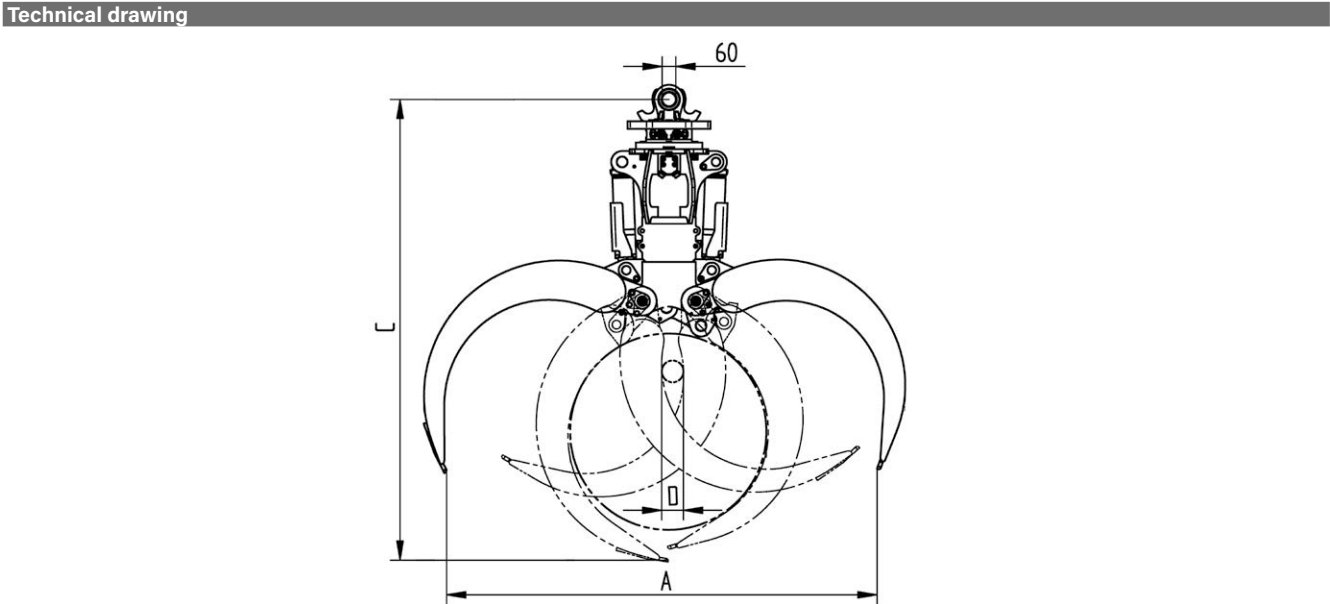
Timber Grab T20V								
Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Log-Ø D min. (mm in)	Volume (m ²/ ft²)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)
T20V-0,60	490 / 19.3	1,970 / 77.6	2,110 / 83.1	100 / 3.9	0.60 / 6.5	610 / 1,342	4,500 / 9,900	25 / 5,500
T20V-0,80	490 / 19.3	2,180 / 85.8	2,255 / 88.8	120 / 4.7	0.80 / 8.6	635 / 1,397	4,500 / 9,900	22 / 4,840
T20V-1,00	490 / 19.3	2,350 / 92.5	2,370 / 93.3	140 / 5.5	1.00 / 10.8	660 / 1,452	4,500 / 9,900	20 / 4,400
T20V-1,25	490 / 19.3	2,500 / 98.4	2,500 / 98.4	160 / 6.3	1.25 / 14.5	685 / 1,507	4,500 / 9,900	19 / 4,180

Package consists of: timber grab, **KINSHOFER** rotator, non-return valve and hose guard

KINSHOFER Rotator			
Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.			
Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 10 F275-60	125 x 60 / 4.9 x 2.36	2,000 / 10,325	14,000 / 10,325

Accessories	
Type	Description
KM 501 13t-25t	upper suspension without pendulum damper
KM 511 13t-25t	upper suspension with pendulum damper
KM 510 13t-25t	single pendulum damper
KSW10 cardanic	adapter for system L-Lock KMS10L/KHS10L incl. cardan link excl. pendulum damper – up to 19t/41,8000lbs
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine	
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40 GPM
Operating pressure (rotate):	max. 32 MPa (320 bar) / 4,640 psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM



Timber grabs for mobile excavators and static excavators from 20t / 44,000lbs to 30t / 66,000lbs operating weight.

- **Long life** is ensured due to the use of 400HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Rotator integrated** in the gripping arm carrier
- **Excellent closing characteristics.**
- **360° endless rotation** mounted directly without short hoses.
- **Hydraulically cushioned cylinders.**



Request? scs@kinshofer.com

Timber Grab T30V

Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Log-Ø F min. (mm/in)	Log-Ø D max. (mm/in)	Volume (m²/ft²)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)
T30V-0,50	720 / 28.3	2,185 / 86.0	2,215 / 87.2	100 / 3.9	800 / 31.5	0.50 / 5.4	900 / 1,980	6,000 / 13,200	38 / 8,360
T30V-0,60	720 / 28.3	2,335 / 91.9	2,290 / 90.2	110 / 4.3	870 / 34.3	0.60 / 6.5	920 / 2,024	6,000 / 13,200	36 / 7,920
T30V-0,80	720 / 28.3	2,605 / 102.6	2,425 / 95.5	120 / 4.7	1,000 / 39.4	0.80 / 8.6	960 / 2,212	6,000 / 13,200	34 / 7,480
T30V-1,00	720 / 28.3	2,850 / 112.2	2,550 / 100.4	140 / 5.5	1,125 / 44.3	1.00 / 10.8	980 / 2,156	6,000 / 13,200	32 / 7,040
T30V-1,25	720 / 28.3	3,135 / 123.4	2,695 / 106.1	150 / 5.9	1,260 / 49.6	1.25 / 13.5	1,020 / 2,244	6,000 / 13,200	30 / 6,600

Package consists of: timber grab, **KINSHOFER** rotator with hose guard, non-return valve

KINSHOFER Rotator

Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.

Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 15 F273-70	180 x 70 / 71 x 2.76	2,000 / 1,475	50,000 / 36,875

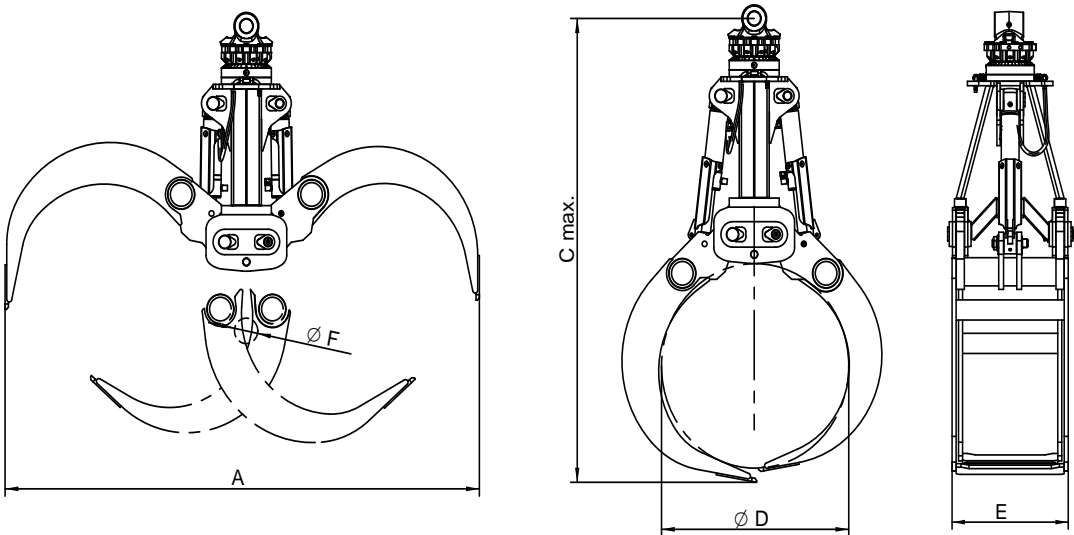
Accessories

Type	Description
KM 501 19t-60t	upper suspension without pendulum damper
KM 511 19t-60t	upper suspension with pendulum damper
KM 510 19t-60t	single pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40 GPM
Operating pressure (rotate):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM

Technical drawing



Timber grab for mobile excavators and static excavators from 25t / 55,000lbs to 40t / 88,000lbs operating weight.

- **Long life** is ensured due to the use of 400HB steel in the manufacture of cutting edges.
- **Reduced wear** resulting from generously dimensioned bearing system.
- **Robust rotation** integrated in the center part, with hose guard.
- Optimal plunge into the log pile thanks to the **large opening**.
- Cylinder with **counter-balance valve** and end position damping.
- **High closing forces** of up to 45kN / 9,900lbs at an operating pressure of 35MPa / 5,075psi, varies depending on width.



Timber Grab T40VHD

Type	Opening A (mm/in)	Height C max. (mm/in)	Log-Ø F min. (mm/in)	Log-Ø D max. (mm/in)	Width E (mm/in)	Volume (m²/ft²)	Weight (kg/lbs)	Load capacity (kg/lbs)	Closing force (kN/lbf)
T40VHD-1,00	2,600 / 102.4	2,700 / 106.3	90 / 3.5	1,100 / 43.3	810 / 31.9	1.00 / 10.8	1,605 / 3,531	6,000 / 13,200	45 / 9,900
T40VHD-1,25	2,800 / 110.2	2,810 / 110.6	90 / 3.5	1,200 / 47.2	810 / 31.9	1.25 / 13.5	1,625 / 3,575	6,000 / 13,200	42 / 9,240
T40VHD-1,50	3,140 / 123.6	2,990 / 117.7	90 / 3.5	1,400 / 55.1	810 / 31.9	1.50 / 16.2	1,665 / 3,663	6,000 / 13,200	37 / 8,140
T40VHD-1,75	3,395 / 133.6	3,135 / 123.4	100 / 3.9	1,500 / 59.1	810 / 31.9	1.75 / 18.8	1,740 / 3,828	6,000 / 13,200	34 / 7,480
T40VHD-2,00	3,670 / 144.5	3,280 / 129.1	100 / 3.9	1,575 / 62.0	810 / 31.9	2.00 / 21.5	1,765 / 3,883	6,000 / 13,200	31 / 6,820

Package consists of: timber grab, **KINSHOFER** rotation with sturdy slewing ring and hose guard, non-return valve

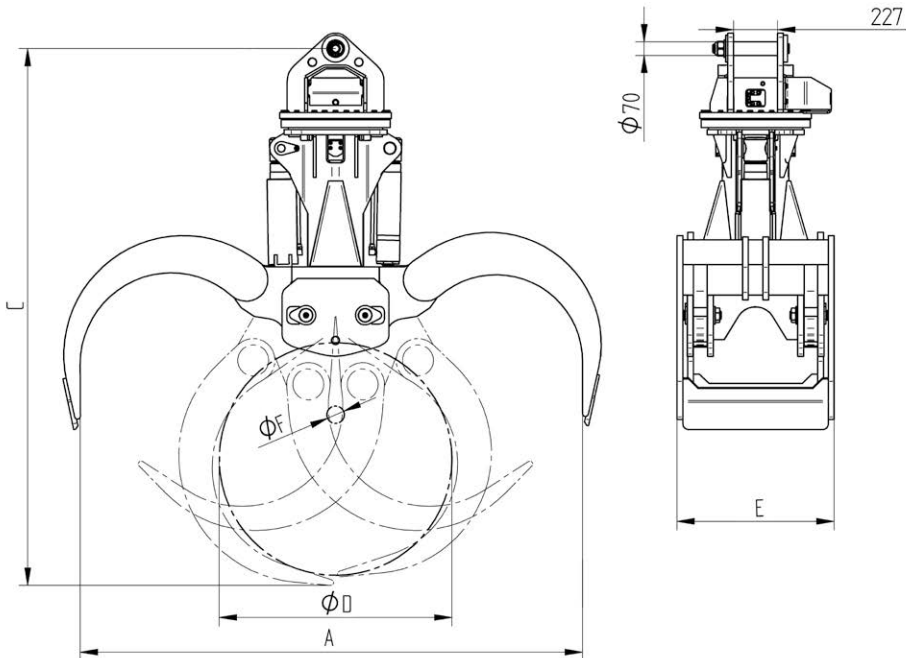
Accessories

Type	Description
KM 501 RD50	upper suspension without pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - 200 l/min / 32 - 53 GPM
Operating pressure (rotate):	max. 14 MPa (140 bar) / 2,030 psi
Pump capacity (rotate):	25 - 60 l/min / 6.5 - 16 GPM

Technical drawing



Universal Mulcher 10-15t / 22,000-33,000lbs

KUM4

The universal mulcher KUM is an excavator mulcher ideal for the maintenance of green spaces and the management of public greenery: cleaning undergrowth and roadsides.

The universal mulcher is available for excavators with an operating weight of up to 15t / 33,000 lbs.

- ▷ Reinforced body and double bottom for **extremely high shock and torsion resistance.**
- ▷ Valve group integrated as standard **optimizes the performance of the engine, protects against pressure peaks and extends its service life.**
- ▷ **Height-adjustable support roller and sliding coupling** for high functionality and work adapted to the situation.
- ▷ Shaft equipped with blades is suitable for mowing grass and low vegetation; the configuration with flails is ideal for demanding jobs such as **cutting scrub and brush with branches up to 100mm / 3.94in in diameter.**
- ▷ Gear motor with reinforced seal.



Universal Mulcher KUM4

Type	Mulch width (mm/in)	Total width (mm/in)	Height w/o adapter (mm/in)	Depth (mm/in)	Weight w/o adapter (kg/lbs)	Ø-Clippings max. (mm/in)	Operating weight (t/lbs)
KUM4-110	1,100 / 43.3	1,300 / 51.2	620 / 24.4	855 / 33.7	455 / 1,001	80 - 100 / 3.15 - 3.94	10 - 15 / 22,000 - 33,000
KUM4-130	1,300 / 51.2	1,600 / 63.0	620 / 24.4	855 / 33.7	505 / 1,111	80 - 100 / 3.15 - 3.94	10 - 15 / 22,000 - 33,000
KUM4-150	1,500 / 59.1	1,800 / 70.9	620 / 24.4	855 / 33.7	540 / 1,188	80 - 100 / 3.15 - 3.94	10 - 15 / 22,000 - 33,000

Package consists of: universal mulcher

Requirements of carrier machine

Operating pressure max.:	28 MPa (280 bar) / 4,032 psi
Recommended pump capacity min. - max.:	65 - 150 l/min / 17.2 - 39.6 GPM

ATTENTION: Piston motor necessary for carriers with very high oil pressure!

Request? exc@kinshofer.com

Forestry Mulcher 10-20t / 22,000-44,000lbs

KFM

High performance and maximum robustness for a device that has to withstand high loads. This forestry mulcher is designed for the toughest jobs in forestry, deep cleaning of forests of all sizes.

The KFM5 is suitable for excavators with an operating weight of 10t up to 20t / 22,000 - 44,000lbs.

- Can be equipped with **two different mulching drums** as required:
 - R2**: for heavy work and especially for crushing plants
 - R3**: for cutting brushwood to chopping trees
- Optimum use of rotor performance**, e.g. to efficiently clear large trunks, through mechanically opening front and rear flaps (optionally hydraulic).
- The hydraulics and hydraulic motor are cooled with forced ventilation** driven directly by the rotor, which keeps the oil temperature constant.
- The **reinforced housing with double bottom** protects the mulcher from impact and warping. **Skids in HB400.**
- Piston engine with variable displacement** for carriers with very high oil pressure.



Forestry Mulcher KFM

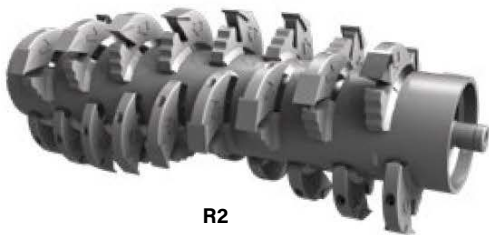
Type	Mulch width (mm/in)	Total width (mm/in)	Height w/o adapter (mm/in)	Depth (mm/in)	Weight w/o adapter (kg/lbs)	Ø-Clippings max. (mm/in)	Displacement engine (cc)
KFM5-100-R2	1,015 / 40.0	1,300 / 51.2	740 / 29.1	720 / 28.3	535 / 1,177	220 / 8.66	23 - 46
KFM5-100-R3	1,015 / 40.0	1,300 / 51.2	740 / 29.1	720 / 28.3	550 / 1,210	220 / 8.66	23 - 46
KFM5-120-R2	1,280 / 50.4	1,540 / 60.6	740 / 29.1	720 / 28.3	600 / 1,320	220 / 8.66	23 - 46
KFM5-120-R3	1,280 / 50.4	1,540 / 60.6	740 / 29.1	720 / 28.3	610 / 1,342	220 / 8.66	23 - 46
KFM6-110-R2	1,150 / 45.3	1,520 / 59.8	910 / 35.8	760 / 29.9	980 / 2,156	280 / 11.0	32 - 64
KFM6-110-R3	1,150 / 45.3	1,520 / 59.8	910 / 35.8	760 / 29.9	1,010 / 2,222	280 / 11.0	32 - 64
KFM6-130-R2	1,350 / 53.1	1,740 / 68.5	910 / 35.8	760 / 29.9	1,060 / 2,332	280 / 11.0	32 - 64
KFM6-130-R3	1,350 / 53.1	1,740 / 68.5	910 / 35.8	760 / 29.9	1,100 / 2,420	280 / 11.0	32 - 64
KFM6-150-R2	1,550 / 61.0	1,950 / 76.8	910 / 35.8	760 / 29.9	1,130 / 2,486	280 / 11.0	32 - 64
KFM6-150-R3	1,550 / 61.0	1,950 / 76.8	910 / 35.8	760 / 29.9	1,180 / 2,596	280 / 11.0	32 - 64

Package consists of: forestry mulcher

Requirements of carrier machine

Operating pressure max.: 40 MPa (400 bar) / 5,760 psi
Recommended pump capacity min. - max.: 90 - 300 l/min / 23.8 - 79.3 GPM

Drum options



R2



R3

Request? exc@kinshofer.com

Rock grab for excavators from 14t / 30,800lbs up to 40t / 88,000lbs operating weight, depending on the size, for the positioning and handling of natural rocks.

- For **rigid or cardanic mounting**.
- **Robust, fully integrated rotation** with sturdy slewing ring to withstand external forces, with connecting hoses located inside the hub.
Hydraulic quick exchange systems are mountable directly.
Integrated pressure relief valve against overcharge.
- **Exceptional closing forces** through two horizontally positioned hydraulic cylinders that are protected by the bucket carrier.
- **Large gripping volume** due to widely spaced pivots.
- **Integrated non-return valve** guarantees secure handling of loads.
- **Cylinders are hydraulically cushioned**.



R27H

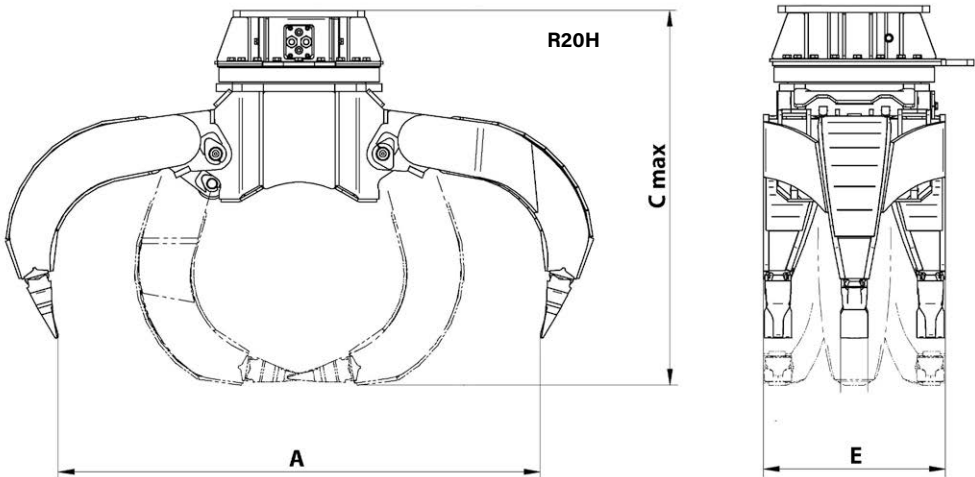
Rock Grabs R20H / R27H / R40H							
Type	Width E (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Volume (m²/cords)	Weight (kg/lbs)	Load capacity (kg/lbs)	Operating weight (t/lbs)
R20H-0,40	720 / 28.3	1,800 / 70.9	1,340 / 52.8	0.40 / 0.27	1,050 / 2,310	5,000 / 11,000	14 - 20 / 30,800 - 44,000
R27H-0,55	840 / 33.1	2,040 / 80.3	1,500 / 59.1	0.55 / 0.37	1,500 / 3,300	6,000 / 13,200	18 - 27 / 39,600 - 59,400
R40H-0,60	1,020 / 40.2	2,684 / 105.7	1,651 / 65.0	0.60 / 0.40	2,050 / 4,510	7,000 / 15,400	27 - 40 / 59,400 - 88,000

Package consists of: rock grab, integrated rotation with sturdy slewing ring and non-return valve

Accessories	
Type	Description
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
OQ	bolt-on adapter for Oilquick OQ – 5t to 70t/11,000lbs to 15,4000lbs
KSW10 rigid	bolt-on adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs
KSW21/25 rigid	bolt-on adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes on request
KM 501 19t-60t	upper suspension without pendulum damper
KM 511 19t-60t	upper suspension with pendulum damper
KM 510 19t-60t	single pendulum damper
KM 693 01	adapter for cardanic mount for R20H
KM 693 02	adapter for cardanic mount for R27H

Requirements of carrier machine			
	R20H	R27H	R40H
Operating pressure (open/close):	max. 32 MPa (320 bar) / 4,640 psi	max. 35 MPa (350 bar) / 5,070 psi	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	75 - max. 150 l/min / 20 - max. 40 GPM	75 - max. 150 l/min / 20 - max. 40 GPM	75 - max. 150 l/min / 20 - max. 40 GPM
Hydraulic connection (open/close / rotate):	G 3/4" / G 1/2"	G 3/4" / G 1/2"	25 S / 16 S
Operating pressure (rotate):	max. 14 MPa (140 bar) / 2,030 psi	max. 14 MPa (140 bar) / 2,030psi	max. 14 MPa (140 bar) / 2,030 psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM	20 - max. 50 l/min / 5 - max. 13 GPM	20 - max. 50 l/min / 5 - max. 13 GPM

Technical drawing



Orange peel grab with 4 tines or 5 tines for the handling of bulky scrap with excavators from 16t / 35,200lbs to 22t / 48,400lbs operating weight.

- 4 tines version available with pointed tines.
- With 5 tines available in 4 different tine profiles:
 - F: fully closing tines
 - H: half closing tines
 - W: wide style of pointed tines
 - T: pointed tines
- Hydraulic cylinders are fitted with replaceable piston rod protection.
- Oil distribution and hydraulic hoses are protected in the centre section.
- Shell bearings with high resistant steel bushings and hardened, ground pins.
- Shell tips made of 500HB cutting edge material, exchangeable individually as wear parts.
- Closing force 17kN/3,740lbf at an operating pressure of 35 MPa/5,070psi, varies depending on width.
- Non-return valve is optionally available.



Orange Peel Grab P22V

Type	Width E (closed) (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Height C min. (mm/in)	Volume (liter/c.y.)	Number of tines (pcs.)	Weight (kg/lbs)	Load capacity (kg/lbs)
P22V-450-4T	1,370 / 53.9	1,910 / 75.2	1,545 / 60.8	1,240 / 48.8	450 / 0.6	4	810 / 1,782	7,000 / 15,400
P22V-450-5F	1,370 / 53.9	1,910 / 75.2	1,545 / 60.8	1,240 / 48.8	450 / 0.6	5	1,145 / 2,519	7,000 / 15,400
P22V-450-5H	1,370 / 53.9	1,910 / 75.2	1,545 / 60.8	1,240 / 48.8	450 / 0.6	5	1,035 / 2,277	7,000 / 15,400
P22V-450-5W	1,370 / 53.9	1,910 / 75.2	1,545 / 60.8	1,240 / 48.8	450 / 0.6	5	970 / 2,134	7,000 / 15,400
P22V-450-5T	1,370 / 53.9	1,910 / 75.2	1,545 / 60.8	1,240 / 48.8	450 / 0.6	5	950 / 2,090	7,000 / 15,400

Package consists of: orange peel grab, KINSHOFER rotator, head plate

KINSHOFER Rotator

Continuous rotation and two oil passages. Overload protection is ensured by pressure relief valves.

Type	Upper connection (width x pin-Ø) (mm/in)	Torque (Nm/ft.lbs)	Bending moment max. (Nm/ft.lbs)
KM 10 F275-60	125 x 60 / 4.9 x 2.36	2,000 / 1,475	14,000 / 10,325

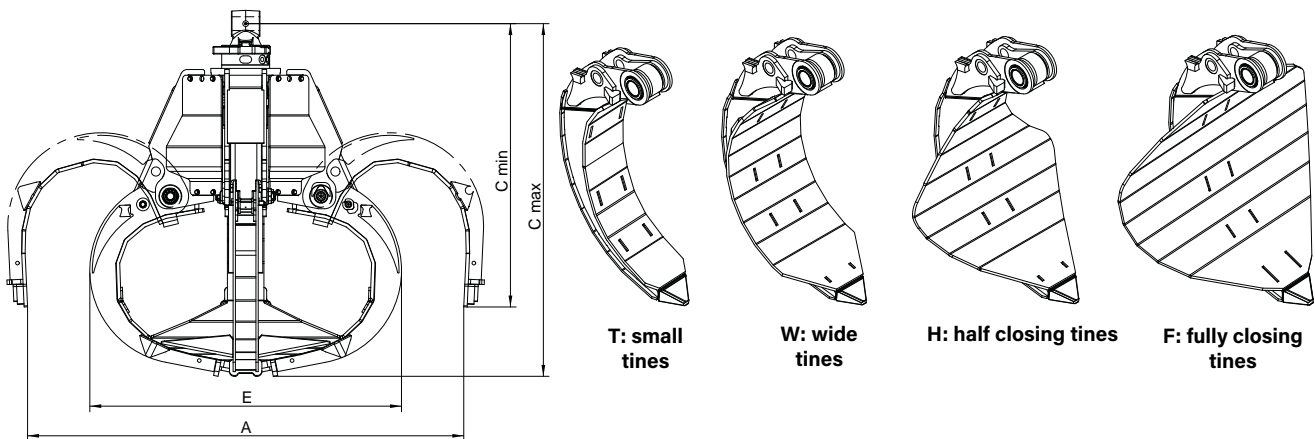
Accessories

Type	Description
KM 501 13t-25t	upper suspension without pendulum damper
KM 511 13t-25t	upper suspension with pendulum damper
KSW10 cardanic	adapter for system L-Lock KMS10L/KHS10L incl. cardan link excl. pendulum damper - up to 19t/ 41,800lbs.
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	50 - max. 150 l/min / 13 - max. 40 GPM
Operating pressure (rotate):	max. 32 MPa (320 bar) / 4,640 psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM

Technical drawing



Orange peel grab rigid mount with 3 tines and 600l / 0.78c.y. or 3 or 4 tines and 800l / 1.05c.y. volume for the handling of bulky scrap with excavators from 18t / 39,600lbs to 25t / 55,000lbs operating weight. Especially developed for heavy duty tasks.

- Hydraulic cylinders are fitted with **replaceable piston rod protection** and are **hydraulically cushioned**.
- Greasing points are **easily accessible**.
- Reinforced tines made of wear-resistant steel 400HB.
- Weld-on tips made of high resistant forged and tempered steel 500HB.
- Accurate fittings eliminate tine distortion, **solid end stops** (open & close).
- Reinforced bolts, large bearing surface for bolts, specially **coated solid steel bushings**.
- Robust, fully integrated rotation with sturdy slewing ring with internal hoses guarantees optimum force transmission and prevents hose break. The **integrated pressure relief valve** protects against overcharge.
- Swivel and bevel sealed. Rotary feedthrough and motor accessible directly.
- Non-return valve is optionally available.
- High closing force 38kN / 8360lbf. at an operating pressure of 35MPa / 5,070psi, varies depending on width.



Orange Peel Grab P25VR HD

Type	Width E (closed) (mm/in)	Opening A (mm/in)	Height C max. (mm/in)	Volume (liter/c.y.)	Number of tines (pcs.)	Weight (kg/lbs)	Load capacity (kg/lbs)
P25VR HD-600-3W*	1,420 / 55.9	2,200 / 86.6	1,775 / 69.9	600 / 0.78	3	1,650 / 3,630	3,000 / 6,600
P25VR HD-800-3W*	1,560 / 61.4	2,200 / 86.6	1,775 / 69.9	800 / 1.05	3	1,700 / 3,740	3,000 / 6,600
P25VR HD-800-4W*	1,550 / 61.0	2,250 / 88.6	1,780 / 70.1	800 / 1.05	4	1,980 / 4,356	3,000 / 6,600

* prices w/o adapter

Package consists of: orange peel grab, integrated rotation with sturdy slewing ring, head plate, hose guard, bolt-on bottom plate with welded lifting eye

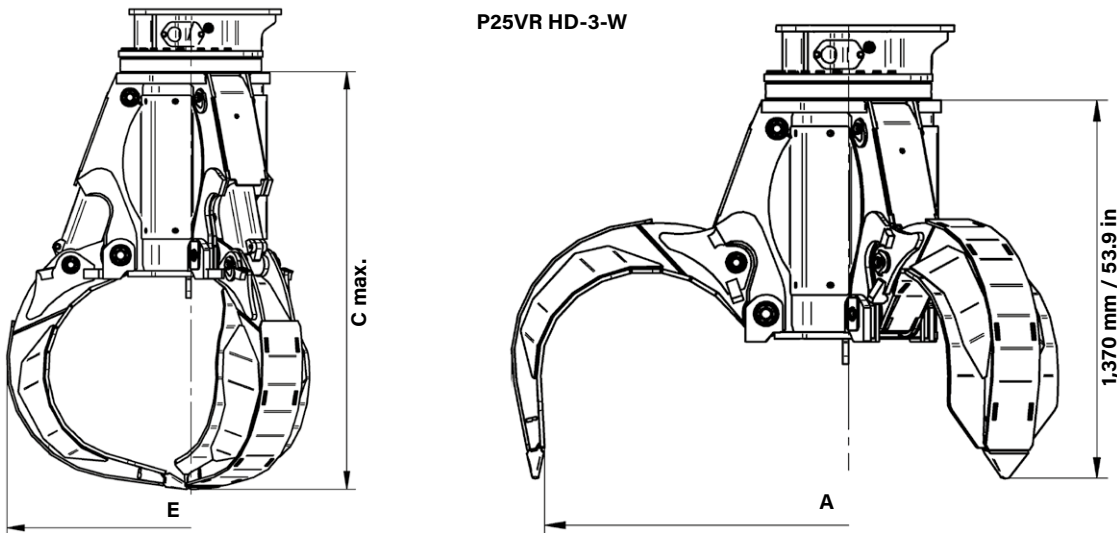
Accessories

Type	Description
KM 691 27t	adapter for specific solutions – up to 27t/59,400lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
OQ	bolt-on adapter for Oilquick OQ – 5t to 70t/11,000lbs to 15,4000lbs
KSW10 rigid	bolt-on adapter for system L-Lock KMS10L/KHS10L – up to 19t/41,800lbs
KSW21/25 rigid	bolt-on adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

	P25VR HD-3-W	P25VR HD-4-W
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - max. 53 GPM	120 - max. 200 l/min / 32 - max. 53 GPM
Hydraulic connection (open/close):	G 3/4"	G 3/4"
Operating pressure (rotate):	14 MPa (140 bar) / 2,030 psi	14 MPa (140 bar) / 2,030 psi
Pump capacity (rotate):	max. 50 l/min / 13 GPM	max. 50 l/min / 13 GPM
Hydraulic connection (rotate):	G 1/2"	G 1/2"

Technical drawing



Orange peel grab with 4 or 5 tines and 600l / 0.78c.y. or 800l / 1.05c.y. volume for the handling of bulky scrap with excavators from 20t / 44,000lbs to 30t / 66,000lbs operating weight - for heavy duty tasks.

- Available in **two different volumes and diverse tine profiles**.
- Hydraulic cylinders are fitted with **replaceable piston rod protection** and are **hydraulically cushioned**.
- **Oil distribution and hydraulic hoses are protected** in the carrier.
- **Reinforced tines** made of wear-resistant steel 400HB.
- **Weld-on tips** made of high resistant forged and tempered steel 500HB.
- **Accurate fittings** eliminate tine distorsion, **solid end stops** (open & close).
- **Robust, fully integrated rotation** with sturdy slewing ring with internal hoses guarantees optimum force transmission and prevents hose break. The **integrated pressure relief valve** protects against overcharge.
- **Swivel and bevel sealed**. Rotary feedthrough and motor accessible directly.
- **Non-return valve** is optionally available.
- **High closing force** 27kN / 5,940lbf at an operating pressure of 35MPa / 5,070psi, varies depending on width.



Orange Peel Grab P30VHD

Type	Width E (closed) (mm/in)	Opening A (mm/in)	Height C max. (closed) (mm/in)	Volume (liter/c.y.)	Number of tines (pcs.)	Weight (kg/lbs)	Load capacity (kg/lbs)
P30VHD-600-4F	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	4	1,600 / 3,520	7,000 / 15,400
P30VHD-600-4H	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	4	1,490 / 3,278	7,000 / 15,400
P30VHD-600-4W	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	4	1,420 / 3,124	7,000 / 15,400
P30VHD-600-4T	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	4	1,310 / 2,882	7,000 / 15,400
P30VHD-600-5F	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	5	1,780 / 3,916	7,000 / 15,400
P30VHD-600-5H	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	5	1,660 / 3,652	7,000 / 15,400
P30VHD-600-5W	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	5	1,630 / 3,586	7,000 / 15,400
P30VHD-600-5T	1,520 / 59.8	2,130 / 83.9	1,980 / 78.0	600 / 0.78	5	1,490 / 6,278	7,000 / 15,400
P30VHD-800-5F	1,525 / 60.0	2,290 / 90.2	2,065 / 81.3	800 / 1.05	5	1,830 / 4,026	7,000 / 15,400
P30VHD-800-5H	1,525 / 60.0	2,290 / 90.2	2,065 / 81.3	800 / 1.05	5	1,730 / 3,806	7,000 / 15,400
P30VHD-800-5W	1,525 / 60.0	2,290 / 90.2	2,065 / 81.3	800 / 1.05	5	1,670 / 3,674	7,000 / 15,400
P30VHD-800-5T	1,525 / 60.0	2,290 / 90.2	2,065 / 81.3	800 / 1.05	5	1,520 / 3,344	7,000 / 15,400

Package consists of: orange peel grab, integrated rotation with sturdy slewing ring, head plate, hose guard, bolt-on bottom plate with welded lifting eye

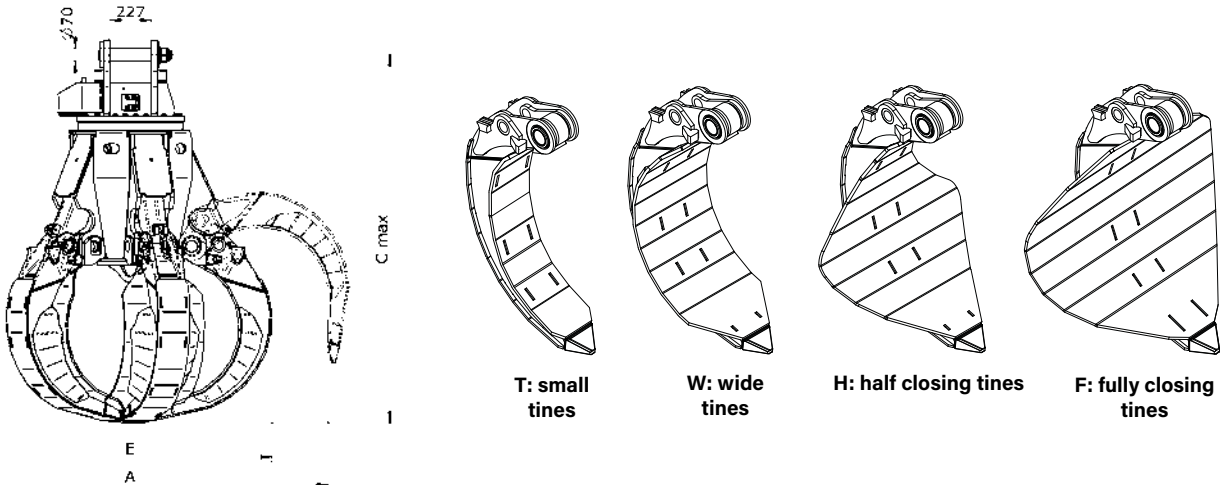
Accessories

Type	Description
KM 501 RD50	upper suspension without pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - max. 53 GPM
Hydraulic connection (open/close / rotate):	1" / 1/2"
Operating pressure (rotate):	17 MPa (170 bar) / 2,460 psi
Pump capacity (rotate):	20 - max. 30 l/min / 5 - max. 8 GPM

Technical drawing



Orange peel grab with 3 tines for the handling of bulky scrap with excavators from 26t / 57,200lbs to 40t / 88,000lbs operating weight - for heavy duty tasks.

- ▷ Hydraulic cylinders are fitted with **replaceable piston rod protection** and are **hydraulically cushioned**.
- ▷ **Easy accessible greasing points**.
- ▷ **Reinforced tines** made of wear-resistant steel 400HB.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel 500HB.
- ▷ **Accurate fittings** eliminate tine distorsion, **solid end stops** (open & close).
- ▷ **Reinforced bolts**, large bearing surface for bolts, specially coated **solid steel bushings**.
- ▷ **Robust, fully integrated rotation** with sturdy slewing ring with internal hoses guarantees optimum force transmission and prevents hose break. The **integrated pressure relief valve** protects against overcharge.
- ▷ **Swivel and bevel sealed**. Rotary feedthrough and motor accessible directly.
- ▷ **Non-return valve** is optionally available.
- ▷ **High closing force** 38 kN / 8,360lbf. at an operating pressure of 35MPa / 5,070lbs., varies depending on width.



Orange Peel Grab P40VHD							
Type	Width E (closed) (mm/in)	Opening A (mm/in)	Height C max. (closed) (mm/in)	Volume (liter/c.y.)	Number of tines (pcs.)	Weight (kg/lbs)	Load capacity (kg lbs)
P40VHD-600-3W*	1,420 / 55.9	2,200 / 86.6	2,170 / 85.4	600 / 0.78	3	1,390 / 3,058	6,000 / 13,200
P40VHD-800-3W*	1,585 / 62.4	2,200 / 86.6	2,170 / 85.4	800 / 1.05	3	1,430 / 3,146	6,000 / 13,200
P40VHD-1000-3W	1,630 / 64.2	2,440 / 96.1	2,300 / 90.6	1,000 / 1.31	3	1,585 / 3,487	6,000 / 13,200
P40VHD-1250-3W	1,830 / 72.0	2,660 / 104.7	2,415 / 95.1	1,250 / 1.64	3	1,660 / 3,652	6,000 / 13,200
P40VHD-1500-3W	1,860 / 73.2	2,835 / 111.6	2,510 / 98.8	1,500 / 1.96	3	2,045 / 4,499	6,000 / 13,200

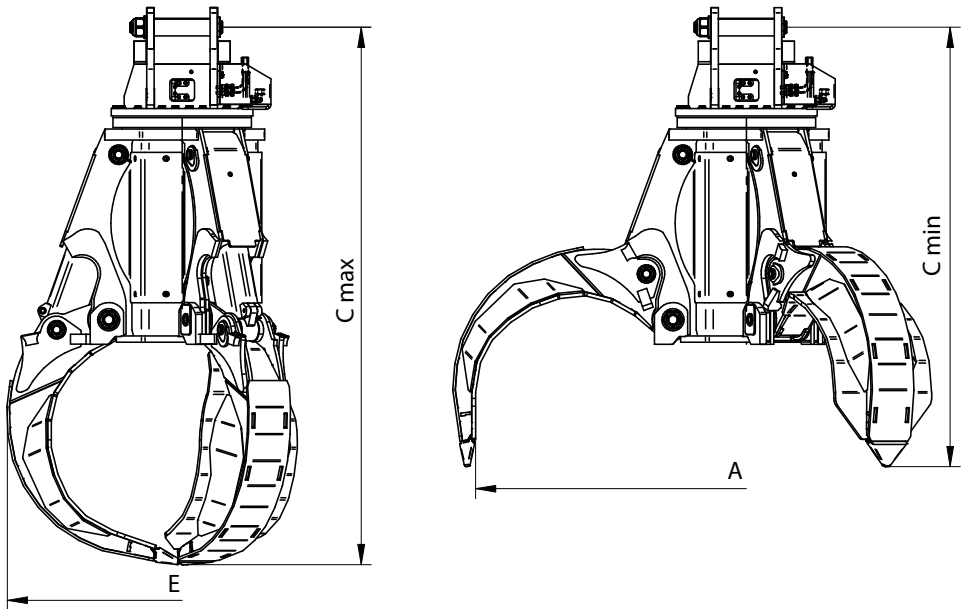
* prices w/o adapter

Package consists of: orange peel grab, integrated rotation with sturdy slewing ring, head plate, hose guard, bolt-on bottom plate with welded lifting eye

Accessories	
Type	Description
KM 501 RD50	upper suspension without pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

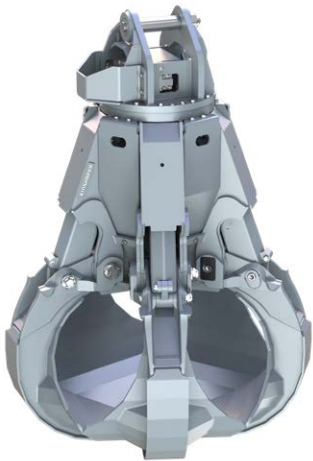
Requirements of carrier machine	
Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - 53 GPM
Hydraulic connection (open/close / rotate):	1" / 1/2"
Operating pressure (rotate):	max. 17 MPa (170 bar) / 2,460 psi
Pump capacity (rotate):	20 - max. 30 l/min / 5 - max. 8 GPM

Technical drawing



Orange peel grab with 4 or 5 tines and 600l / 0.78c.y. or 800l / 1.05c.y. volume for the handling of bulky scrap with excavators with up to 40t/88,000lbs operating weight - for heavy duty tasks.

- ▷ Available in **two different volumes and diverse tine profiles**.
- ▷ Hydraulic cylinders are fitted with **replaceable piston rod protection** and are **hydraulically cushioned**.
- ▷ **Oil distribution and hydraulic hoses are protected** in the carrier.
- ▷ **Reinforced tines** made of wear-resistant steel 400HB.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel 500HB.
- ▷ **Accurate fittings** eliminate tine distorsion, **solid end stops** (open & close).
- ▷ **Reinforced bolts**, large bearing surface for bolts, specially coated **solid steel bushings**.
- ▷ **Robust, fully integrated rotation** with sturdy slewing ring with internal hoses guarantees optimum force transmission and prevents hose break. The **integrated pressure relief valve** protects against overcharge.
- ▷ **Swivel and bevel sealed**. Rotary feedthrough and motor accessible directly.
- ▷ **Non-return valve** is optionally available.
- ▷ **High closing force** 38 kN / 8,360lbf at an operating pressure of 35MPa / 5,070psi, varies depending on width.



Orange Peel Grab P40VHD

Type	Width E (closed) (mm/in)	Opening A (mm/in)	Height C max. (closed) (mm/in)	Volume (liter/c.y.)	Number of tines (pcs.)	Weight (kg/lbs)	Load capacity (kg/lbs)
P40VHD-600-5H	1,430 / 56.3	2,200 / 86.6	2,170 / 85.4	600 / 0.78	5	1,870 / 4,114	10,000 / 22,000
P40VHD-600-5W	1,430 / 56.3	2,200 / 86.6	2,170 / 85.4	600 / 0.78	5	1,900 / 4,180	10,000 / 22,000
P40VHD-600-5T	1,430 / 56.3	2,200 / 86.6	2,170 / 85.4	600 / 0.78	5	1,730 / 3,806	10,000 / 22,000
P40VHD-800-4W	1,545 / 60.8	2,165 / 85.2	2,170 / 85.4	800 / 1.05	4	1,680 / 3,696	10,000 / 22,000
P40VHD-800-4T	1,545 / 60.8	2,165 / 85.2	2,170 / 85.4	800 / 1.05	4	1,530 / 3,366	10,000 / 22,000
P40VHD-800-5F	1,560 / 61.2	2,190 / 86.2	2,170 / 85.4	800 / 1.05	5	2,140 / 4,708	10,000 / 22,000
P40VHD-800-5H	1,560 / 61.2	2,190 / 86.2	2,170 / 85.4	800 / 1.05	5	1,965 / 4,323	10,000 / 22,000
P40VHD-800-5W	1,560 / 61.2	2,190 / 86.2	2,170 / 85.4	800 / 1.05	5	1,965 / 4,323	10,000 / 22,000
P40VHD-800-5T	1,560 / 61.2	2,190 / 86.2	2,170 / 85.4	800 / 1.05	5	1,775 / 3,905	10,000 / 22,000

Package consists of: orange peel grab, integrated rotation with sturdy slewing ring, head plate, hose guard, bolt-on bottom plate with welded lifting eye

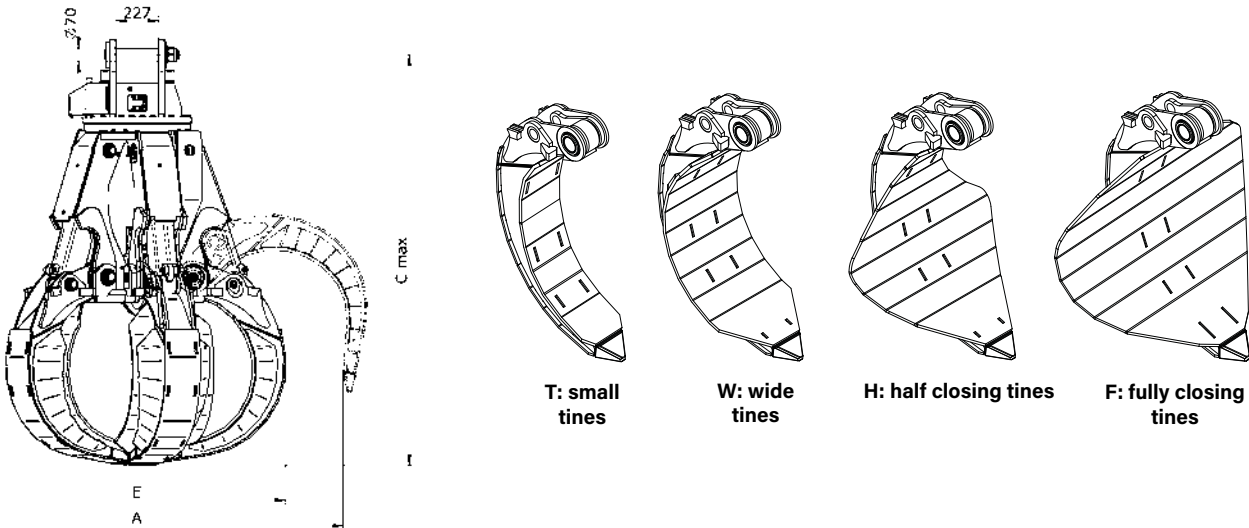
Accessories

Type	Description
KM 501 RD50	upper suspension without pendulum damper
KSW21/25 cardanic	adapter for system L-Lock KMS21/25L / KHS21/25L incl. cardan link excl. pendulum damper
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar) / 5,070 psi
Pump capacity (open/close):	120 - max. 200 l/min / 32 - max. 53 GPM
Hydraulic connection (open/close / rotate):	1" / 1/2"
Operating pressure (rotate):	14 MPa (140 bar) / 2030 psi - max. 25 MPa (250 bar) / 3,620 psi
Pump capacity (rotate):	20 - max. 50 l/min / 5 - max. 13 GPM

Technical drawing



Mounting Options for Hydraulic Attachments - cardanic mount

KM 501 - upper suspension without pendulum damper - specify excavator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 501 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 501 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KM 511 - upper suspension with pendulum damper - specify excavator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 511 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 511 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KM 510 - single pendulum damper without upper suspension - specify rotator type when ordering



Type	for rotators	Upper connection rotator (width x pin-Ø) (mm/in)
KM 510 13t-25t	KM 10 F275-60	125 x 60 / 4.9 x 2.36
KM 510 19t-60t	KM 15 F340-70 / KM 15 F273-70	180 x 70 / 7.1 x 2.76

KSW cardanic - adapter for quick coupler system L-Lock incl. cardan link excl. pendulum damper



Type	for quick coupler System L-Lock	Operating weight (t/lbs)
KSW10 cardanic	KMS10L / KHS10L	up to 19 / 41,800
KSW21/25 cardanic	KMS21/25L / KHS21/25L	up to 40 / 88,000

S cardanic - adapter for quick coupler system S-Lock incl. cardan link excl. pendulum damper



Type	for quick coupler System S-Lock	Operating weight (t/lbs)
S60 cardanic	KMS60S / KHS60S	up to 18 / 39,600
S70 cardanic	KMS70S / KHS70S	up to 30 / 66,000

OQ cardanic - upper suspension with pendulum damper incl. adapter „Oilquick“ and hoses



Type	Operating weight (t/lbs)
OQ60 cardanic	8 - 15 / 17,600 - 33,000
OQ60-5 cardanic	8 - 15 / 17,600 - 33,000
OQ65 cardanic	14 - 22 / 30,800 - 48,400
OQ70 cardanic	15 - 28 / 33,000 - 61,600
OQ70/55 cardanic	18 - 32 / 39,600 - 70,400
OQ80 cardanic	25 - 43 / 55,000 - 94,600

SW cardanic - upper suspension with pendulum damper incl. adapter „Liebherr“



Type	Operating weight (t/lbs)
SW48 cardanic	14 - 30 / 30,800 - 66,000
SW48 Likufix cardanic*	14 - 30 / 30,800 - 66,000
SW66 cardanic	28 - 45 / 61,600 - 99,000
SW66 Likufix cardanic*	28 - 45 / 61,600 - 99,000

*incl. hoses

CW cardanic - upper suspension with pendulum damper incl. adapter „Verachtert“



Type	Operating weight (t/lbs)
CW30 cardanic	15 - 25 / 33,000 - 55,000
CW40 cardanic	20 - 30 / 44,000 - 66,000
CW45 cardanic	25 - 40 / 55,000 - 88,000
CW30S cardanic**	15 - 25 / 33,000 - 55,000
CW40S cardanic**	20 - 30 / 44,000 - 66,000
CW45S cardanic**	25 - 40 / 55,000 - 88,000

**smaller S-version

Note: adapters for quick change systems for other manufacturers or other sizes on request

Multi-Quick Processor up to 50t / 110,000lbs

MQP

Used for cutting and crushing concrete with steel reinforcement and cutting steel structures, the **KINSHOFER** Multi-Quick Processor with DemaPower and DemaLink was developed for primary and secondary demolition. It has seven convenient jaw options: combi, demolition, pulveriser, steel, tank, universal and wood jaws.

- The patented DemaPower cylinder provides **up to 20% more power** and reduces **cycle times to under 5 seconds**.
- **Rotation circuit filters**.
- Twin rotation motors for **extra rotation power**.
- Guide plate at pivot point for more **precise alignment** and **greater jaw stability**.
- **All teeth and cutting blades are exchangeable**.
- Bearing points engineered for **optimum load handling** and **reduced wear**.
- With the integrated DemaLink the **jaw set can be exchanged** on site in **less than 10 minutes**.



MQP with Combi-jaws

Multi-Quick Processor MQP without jaws

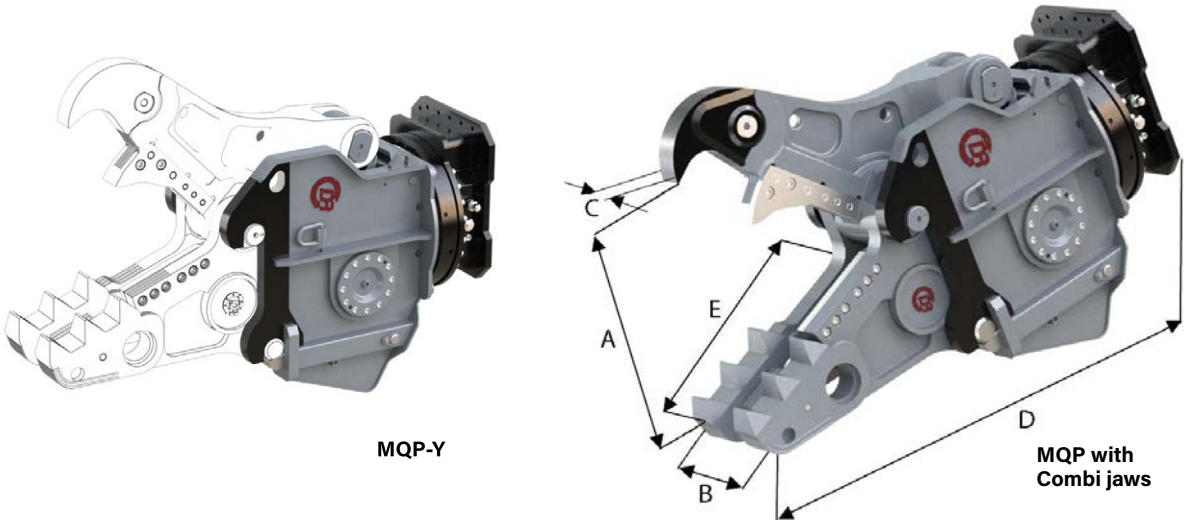
Type	Operating weight (t/lbs)	Weight (kg/lbs)	Height (mm/in)	Width (mm/in)	Depth (mm/in)	Cycle times (open / close) (sec)
MQP-25-Y	18 - 25 / 39,600 - 55,000	1,215 / 2,673	1,095 / 43.1	640 / 25.2	1,130 / 44.5	1.5 / 2.3
MQP-30-Y	22 - 35 / 48,400 - 77,000	1,490 / 3,278	1,205 / 47.4	720 / 28.3	1,190 / 46.9	2.0 / 2.3
MQP-45-Y	32 - 50 / 70,400 - 110,000	1,825 / 4,015	1,330 / 52.4	720 / 28.3	1,290 / 50.8	2.0 / 2.9

Package consists of: Multi-Quick Processor, integrated rotation with 2 motors

Requirements of carrier machine

	MQP-25	MQP-30	MQP-45
Operating pressure (open/close):	max. 38 MPa (380 bar) / 5,510 psi	max. 38 MPa (380 bar) / 5,510 psi	max. 38 MPa (380 bar) / 5,510 psi
Pump capacity (open/close):	120 - max. 200 l/min/ 32 - max. 53GPM	150 - max. 250 l/min/ 40 - max. 66 GPM	200 - max. 300 l/min/ 53 - max. 79.5 GPM
Operating pressure (rotate):	max. 14 MPa (140 bar) / 2,030 psi	max. 14 MPa (140 bar) / 2,030 psi	max. 14 MPa (140 bar) / 2,030 psi
Pump capacity (rotate):	40 - max. 60 l/min/ 10.5 - max. 16 GPM	40 - max. 60 l/min/ 10.5 - max. 16 GPM	40 - max. 60 l/min/ 10.5 - max. 16 GPM

Technical drawing



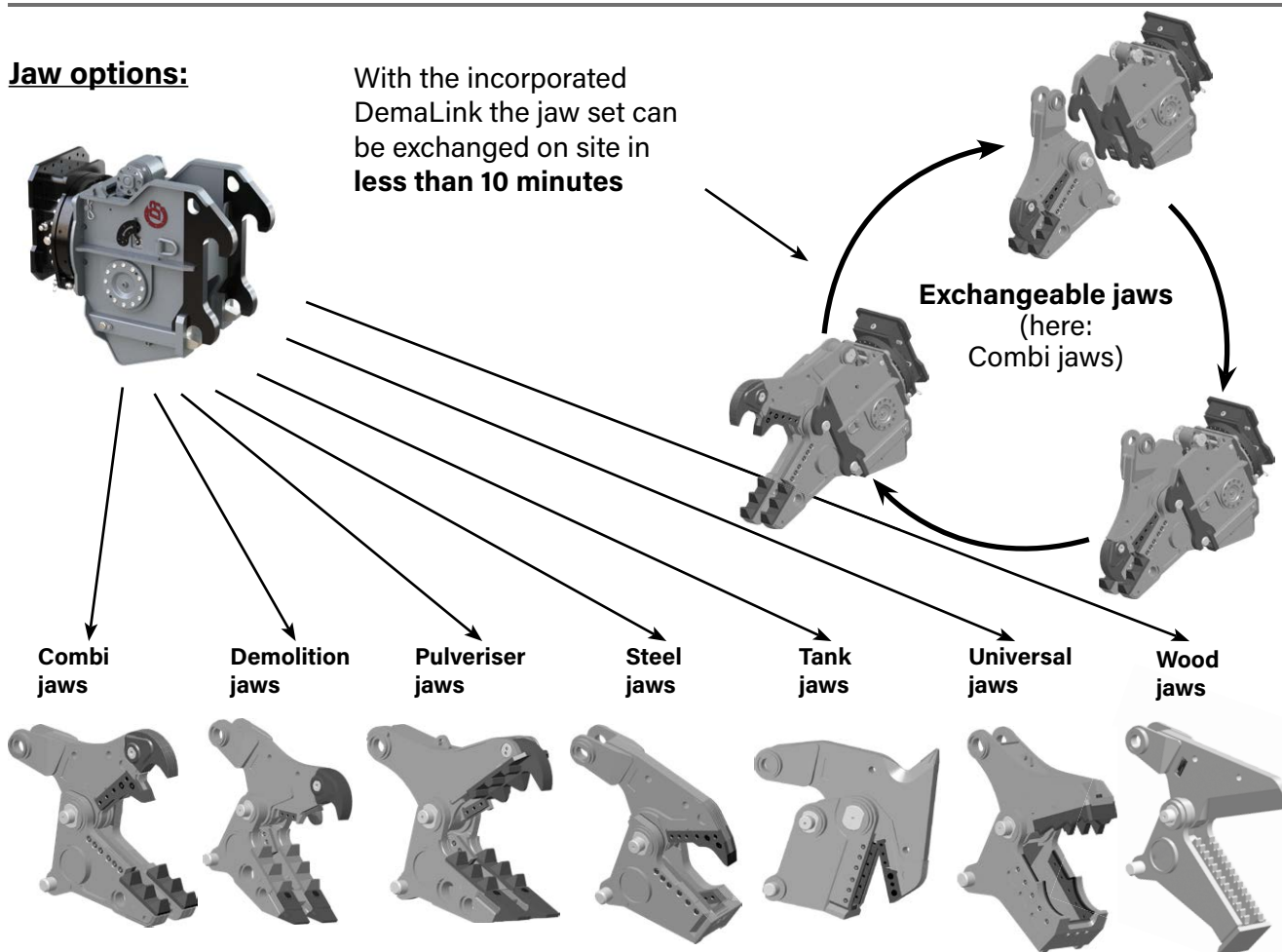
Request? exc@kinshofer.com

Multi-Quick Processor Jaws up to 50t / 110,000lbs

MQP

Jaw options:

With the incorporated DemaLink the jaw set can be exchanged on site in less than 10 minutes

Request? exc@kinshofer.com

Multi-Quick Processor Jaws

Type	Weight (complete with yoke) (kg/lbs)	Weight jaw set (kg/lbs)	Closing force* (t/lbs)	Jaw opening A (mm/in)	Jaw depth E (mm/in)	Lower jaw width B (mm/in)	Upper jaw width C (mm/in)	Height D (mm/in)
Combi jaws:								
MQP-25-C	2,060 / 4,532	845 / 1,859	85 / 187,000	785 / 30.9	810 / 31.9	375 / 14.8	90 / 3.5	1,940 / 76.4
MQP-30-C	2,680 / 5,896	1,190 / 2,618	100 / 220,000	870 / 34.3	920 / 36.2	440 / 17.3	100 / 3.9	2,155 / 84.8
MQP-45-C	3,365 / 7,403	1,540 / 3,388	130 / 286,000	980 / 38.6	990 / 39.0	450 / 17.7	100 / 3.9	2,360 / 92.9
Demolition jaws:								
MQP-25-D	2,085 / 4,587	870 / 1,914	90 / 198,000	815 / 32.1	810 / 31.9	460 / 18.1	90 / 3.5	1,980 / 78
MQP-30-D	2,690 / 5,918	1,200 / 2,640	105 / 231,000	870 / 34.3	900 / 35.4	470 / 18.5	100 / 3.9	2,160 / 85
MQP-45-D	3,405 / 7,491	1,580 / 3,476	130 / 286,000	990 / 39.0	960 / 37.8	515 / 20.3	100 / 3.9	2,355 / 92.7
Pulveriser jaws:								
MQP-25-P	2,100 / 4,620	885 / 1,947	85 / 187,000	790 / 31.1	810 / 31.9	400 / 15.7	325 / 12.8	1,980 / 78.0
MQP-30-P	2,665 / 5,863	1,175 / 2,585	100 / 220,000	880 / 34.6	830 / 32.7	470 / 18.5	350 / 13.8	2,165 / 85.2
MQP-45-P	3,450 / 7,590	1,625 / 3,575	130 / 286,000	980 / 38.6	945 / 37.2	515 / 20.3	400 / 15.7	2,355 / 92.7
Steel jaws:								
MQP-25-S	1,985 / 4,367	770 / 1,694	300 / 660,000	370 / 14.6	560 / 22.0	320 / 12.6	100 / 3.9	1,965 / 77.4
MQP-30-S	2,460 / 5,412	970 / 2,134	340 / 748,000	410 / 16.1	600 / 23.6	355 / 14.0	120 / 4.7	1,910 / 75.2
MQP-45-S	3,130 / 6,886	1,305 / 2,871	415 / 913,000	465 / 18.3	700 / 27.6	375 / 14.8	120 / 4.7	2,105 / 82.9
Tank jaws:								
MQP-25-T	2,130 / 4,686	915 / 2,013	295 / 649,000	333 / 13.1	570 / 22.4	265 / 10.4	100 / 3.9	1,910 / 75.2
MQP-30-T	2,710 / 5,962	1,220 / 2,684	360 / 792,000	335 / 13.2	575 / 22.6	305 / 12.0	120 / 4.7	2,070 / 81.5
MQP-45-T	3,320 / 7,304	1,495 / 3,289	460 / 101,200	390 / 15.4	630 / 24.8	305 / 12.0	120 / 4.7	2,275 / 89.6
Universal jaws:								
MQP-30-U	2,640 / 5,808	1,150 / 2,530	110 / 242,000	590 / 23.2	790 / 31.1	500 / 19.7	280 / 11.0	2,040 / 80.3
MQP-45-U	3,195 / 7,029	1,370 / 3,015	145 / 319,000	670 / 26.4	830 / 32.7	525 / 20.7	310 / 12.2	2,225 / 87.6
Wood jaws:								
MQP-30-W	2,565 / 5,643	1,075 / 2,365	85 / 187,000	1,005 / 39.6	880 / 34.6	360 / 14.2	90 / 3.5	2,175 / 85.6

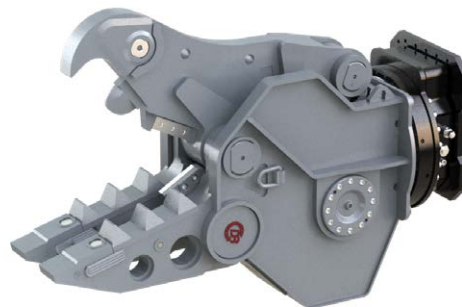
* closing force for C-, D-, P-, U- and W-jaw measured at front tooth, for S- and T-jaw measured at mid point of inner blade

Rotating Shears up to 50t / 110,000lbs

DLC / DLD / DLP

The rotating demolition tools of the Dedicated Demolition Line have been developed for primary and secondary demolition. Their jaws are designed for each application area within a demolition job site:
Combi Shear DLC, Demolition Shear DLD or Pulveriser DLP.

- ▷ **Powerful cylinder** with robust pin suspension.
- ▷ **Cylinder** in two chamber technique with **speed valve**.
- ▷ **Rotation** with additional oil passage.
- ▷ Twin rotation motors for **extra rotation power**.
- ▷ **Swing bearing** double pivoted.
- ▷ **Rotation circuit filters**.
- ▷ **Teeth, shrouds and cutting blades** exchangeable.
- ▷ **Excellent speed/ power to weight ratio**.
- ▷ **DLP: exchangeable ground tooth-plate**.



DLD-25

Rotating Combi Shears DLC

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/lbs)	(kg/lbs)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(t/lbs)
DLC-25	18 - 25 / 39,600 - 55,000	1,880 / 4,136	785 / 30.9	800 / 31.5	390 / 15.4	90 / 3.5	1,995 / 78.5	400 / 15.7	70/100 / 154,000/220,000
DLC-30	22 - 35 / 48,400 - 77,000	2,455 / 5,401	875 / 34.4	900 / 35.4	455 / 17.9	100 / 3.9	2,150 / 84.6	400 / 15.7	80/125 / 176,000/275,000
DLC-45	32 - 50 / 70,400 - 110,000	3,085 / 6,787	980 / 38.6	990 / 39.0	470 / 18.5	100 / 3.9	2,365 / 93.1	500 / 19.7	110/150 / 242,000/330,000

Rotating Demolition Shears DLD

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/lbs)	(kg/ lbs)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(t/lbs)
DLD-25	18 - 25 / 39,600 - 55,000	1,905 / 4,191	825 / 32.5	800 / 31.5	390 / 15.4	90 / 3.5	2,035 / 80.1	200 / 7.9	75/125 / 165,000/275,000
DLD-30	22 - 35 / 48,400 - 77,000	2,450 / 5,390	870 / 34.3	885 / 34.8	450 / 17.7	100 / 3.9	2,155 / 84.8	200 / 7.9	85/135 / 187,000/297,000
DLD-45	32 - 50 / 70,400 - 110,000	3,110 / 6,842	990 / 39.0	945 / 37.2	470 / 18.5	100 / 3.9	2,360 / 92.9	200 / 7.9	110/160 / 242,000/252,000

Rotating Pulveriser DLP

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/lbs)	(kg/lbs)	(mm/ in)	(mm/ in)	(mm/ in)	(mm/ in)	(mm/ in)	(mm/ in)	(t/lbs)
DLP-25	18 - 25 / 39,600 - 55,000	1,920 / 4,224	790 / 31.1	800 / 31.5	390 / 15.4	325 / 12.8	2,035 / 80.1	200 / 7.9	70/100 / 154,000/220,000
DLP-30	22 - 35 / 48,400 - 77,000	2,425 / 5,335	860 / 33.9	885 / 34.8	450 / 17.7	350 / 13.8	2,155 / 84.8	200 / 7.9	80/125 / 176,000/275,000
DLP-45	32 - 50 / 70,400 - 110,000	3,150 / 6,930	985 / 38.8	945 / 37.2	470 / 18.5	400 / 15.7	2,360 / 92.9	200 / 7.9	110/150 / 242,000/330,000

* closing force measured at front tooth / splitting tooth

Rotating Shears with *DemaPower* up to 50t / 110,000lbs DRC / DRD / DRP

The rotating demolition tools of the Dedicated Demolition Line have been developed for primary and secondary demolition. Their jaws are designed to each application area within a demolition job site: Combi Shear DRC, Demolition Shear DRD or Pulveriser DRP. The patented *DemaPower* cylinder concept provides up to 20% more power and obviously quicker cycle times.

- ▷ Maximized working speed with the *DemaPower* cylinder and robust pin suspension, four chamber technique and speed valve.
- ▷ Rotation with additional oil passage.
- ▷ Twin rotation motors for extra rotation power.
- ▷ Swing bearing double pivoted.
- ▷ Rotation circuit filters.
- ▷ Teeth, shrouds and cutting blades exchangeable.
- ▷ Excellent speed/ power to weight ratio.
- ▷ DRP: exchangeable ground tooth-plate.



DRD-25

Rotating Combi Shears DRC

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/lbs)	(kg/lbs)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(t/lbs)
DRC-25	18 - 25 / 39,600 - 55,000	1,880 / 4,136	785 / 30.9	800 / 31.5	390 / 15.4	90 / 3.5	1,995 / 78.5	400 / 15.7	85/120 / 187,000/264,000
DRC-30	22 - 35 / 48,400 - 77,000	2,440 / 5,368	875 / 34.4	900 / 35.4	455 / 17.9	100 / 3.9	2,150 / 84.6	400 / 15.7	100/150 / 220,000/330,000
DRC-45	32 - 50 / 70,400 - 110,000	3,060 / 6,732	990 / 39.0	975 / 38.4	470 / 18.5	100 / 3.9	2,365 / 93.1	500 / 19.7	130/185 / 286,000/407,000

Rotating Demolition Shears DRD

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/lbs)	(kg/lbs)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(t/lbs)
DRD-25	18 - 25 / 39,600 - 55,000	1,905 / 4,191	825 / 32.5	800 / 31.5	390 / 15.4	90 / 3.5	2,035 / 80.1	200 / 7.9	90/145 / 198,000/319,000
DRD-30	22 - 35 / 48,400 - 77,000	2,435 / 5,357	870 / 34.3	885 / 34.8	450 / 17.7	100 / 3.9	2,155 / 84.8	200 / 7.9	105/160 / 231,000/352,000
DRD-45	32 - 50 / 70,400 - 110,000	3,085 / 6,787	990 / 39.0	945 / 37.2	470 / 18.5	100 / 3.9	2,360 / 92.9	200 / 7.9	130/195 / 286,000/429,000

Rotating Pulveriser DRP

Type	Operating weight	Weight	Jaw width A	Jaw depth E	Lower jaw width B	Upper jaw width C	Height D	Length blades	Closing force*
	(t/ lbs.)	(kg/lbs)	(mm/in)	(mm/ in)	(mm/ in)	(mm/ in)	(mm/ in)	(mm/ in)	(t/lbs)
DRP-25	18 - 25 / 39,600 - 55,000	1,910 / 4,202	790 / 31.1	800 / 31.5	390 / 15.4	325 / 12.8	1,980 / 78.0	200 / 7.9	85/130 / 209,000/286,000
DRP-30	22 - 35 / 48,400 - 77,000	2,410 / 5,302	860 / 33.9	885 / 34.8	450 / 17.7	350 / 13.8	2,155 / 84.8	200 / 7.9	100/150 / 220,000/330,000
DRP-45	32 - 50 / 70,400 - 110,000	3,125 / 6,875	980 / 38.6	945 / 37.2	470 / 18.5	400 / 15.7	2,360 / 92.9	200 / 7.9	130/185 / 286,000/407,000

* closing force measured at front tooth / splitting tooth

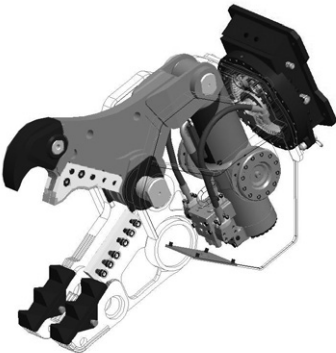
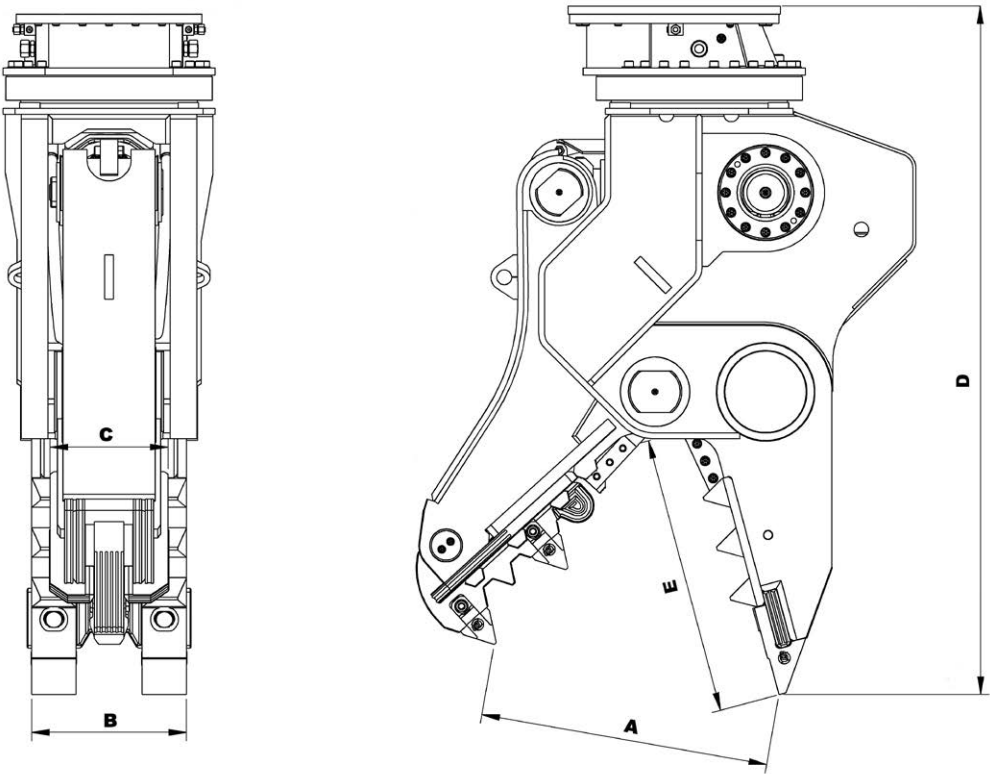
Rotating Shears - Technical Data

DLC / DLD / DLP
DRC / DRD / DRP

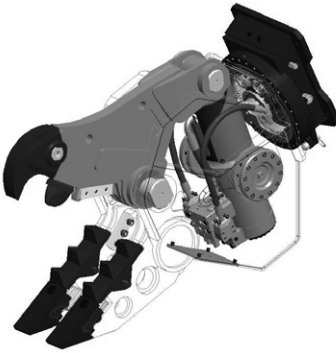
Hydraulics					
Type	Open / close		Rotation		Cycle times (open / close) (sec)
	Pressure max. (bar/psi)	Flow (l/min/GPM)	Pressure max. (bar/psi)	Flow (l/min/GPM)	
DLC-25 / DLD-25 / DLP-25	380 / 5,510	120 - max. 200 / 31.7 - max. 52.8	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.5 / 2.5
DLC-30 / DLD-30 / DLP-30	380 / 5,510	150 - max. 250 / 39.6 - max. 66.1	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.5 / 2.5
DLC-45 / DLD-45 / DLP-45	380 / 5,510	200 - max. 300 / 52.8 - max. 79.3	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.6 / 2.9

Hydraulics					
Type	Open / close		Rotation		Cycle times (open / close) (sec)
	Pressure max. (bar/psi)	Flow (l/min)	Pressure max. (bar/psi)	Flow (l/min)	
DRC-25 / DRD-25 / DRP-25	380 / 5,510	120 - max. 200 / 31.7 - max. 52.8	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.0 / 2.3
DRC-30 / DRD-30 / DRP-30	380 / 5,510	150 - max. 250 / 39.6 - max. 66.1	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.0 / 2.5
DRC-45 / DRD-45 / DRP-45	380 / 5,510	200 - max. 300 / 52.8 - max. 79.3	140 / 2,030	40 - max. 60 / 10.6 - max. 15.9	2.0 / 2.9

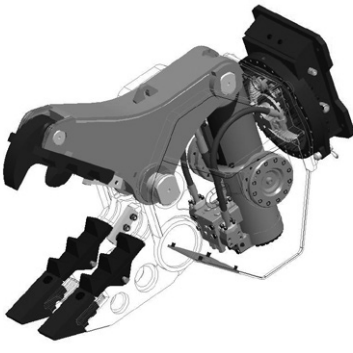
Technical drawing



Combi Shear



Demolition Shear



Pulveriser

Request? exc@kinshofer.com

Mobile Scrap Shears with rotation

DXS

The DXS Mobile Shear with its 360° rotation has been engineered to achieve an optimal power to weight ratio. This robust tool can be used for a wide variety of jobs including steel structural demolition, scrap yards, conditioning of industrial mixed scrap and even processing steel-reinforced concrete.

- ▷ **25% more power and fast cycle times** thanks to DemaPower 2.0.
- ▷ **Protected cylinder, robust shear arm.**
- ▷ **Heavy duty bearings** for reduced bushing wear – without allowance.
- ▷ Very high cutting force: **optimal power to weight ratio.** Robust mouth.
- ▷ Optimal mouth design with **large opening for scrap.**
- ▷ **More cutting force** by displaced angles of the two cutting blades.
- ▷ **All wear cutting blades can be turned three times.**
- ▷ **Exchangeable, weldable piercing tip.**
- ▷ With **integrated OQ80/4 adapter (version FQC)** available.
- ▷ Shear without rotation (version C) on request.



Mobile Schrottschere DXS mit 360°-Rotation

Type	Weight*	Length A	Opening B	Jaw depth C	Primary cutter length	Cutting force**	Operating weight (boom)	Operating weight (dipper)
	(kg/lbs)	(mm/in)	(mm/in)	(mm/in)	(mm/in)	(kN/lbf)	(t/lbs)	(t/lbs)
DXS-40-A	3,200 / 7,040	2,995 / 117.9	630 / 24.8	665 / 26.2	225/330 / 8.8/12.9	8,200 / 1,804,000	18 - 25 / 39,600 - 55,000	25 - 40 / 55,000 - 88,000
DXS-40-FQC	3,425 / 7,535	3,365 / 132.5	630 / 24.8	665 / 26.2	225/330 / 8.8/12.9	8,200 / 1,804,000	18 - 25 / 39,600 - 55,000	-
DXS-50-A	4,500 / 9,900	3,280 / 129.1	730 / 28.7	780 / 30.7	250/380 / 9.8/14.9	10,000 / 2,200,000	25 - 35 / 55,000 - 77,000	35 - 50 / 77,000 - 110,000
DXS-50-FQC	4,630 / 10,186	3,650 / 143.7	730 / 28.7	780 / 30.7	250/380 / 9.8/14.9	10,000 / 2,200,000	25 - 35 / 55,000 - 77,000	-
DXS-60-A	5,800 / 12,760	3,520 / 138.6	820 / 32.3	835 / 32.9	275/380 / 10.8/14.9	11,500 / 2,530,000	32 - 50 / 66,000 - 110,000	50 - 70 / 110,000 - 154,000
DXS-60-FQC	5,900 / 12,980	3,840 / 151.2	820 / 32.3	835 / 32.9	275/380 / 10.8/14.9	11,500 / 2,530,000	32 - 50 / 66,000 - 110,000	-

* excl. adapter

** cutting force calculated at throat

Hydraulics

Type	Open / close	Rotation	Back pressure	Cycle times		
Pressure max.	Flow		(back pressure)	open/close		
(bar/psi)	(l/min/GPM)	(bar)	(bar)	(sec)		
DXS-40	380 / 5,510	200 - max. 300 / 53 - max. 79.5	140 / 2,030	40 - 60 / 10.5 - 16	-	3.2 / 3.3
DXS-50	380 / 5,510	300 - max. 400 / 79.5 - max. 105	140 / 2,030	40 - 60 / 10.5 - 16	-	2.7 / 3.7
DXS-60	380 / 5,510	400 - max. 500 / 105 - max. 132	200 / 2,880	60 / 16	10 (drain line required)	3.0 / 3.8

Steel profiles / allowed maximum sizes

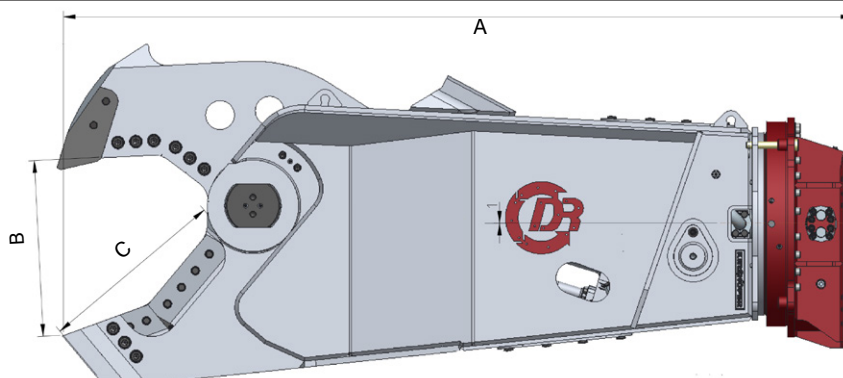
Type	DXS-40	DXS-50	DXS-60
H-beam narrow/medium/wide	HEA 400 / HEB 300 / HEM 140	HEA 500 / HEB 360 / HEM 160	HEA 600 / HEB 400 / HEM 180
I-beam narrow/medium	IPE 550 / INP 450	IPE 600 / INP 500	IPE 700 / INP 550
L-angles (mm/in)	250 x 250 x 25 / 9.8 x 9.8 x 0.98	300 x 300 x 25 / 11.8 x 11.8 x 0.98	300 x 300 x 30 / 11.8 x 11.8 x 1.18
Solid round (mm/in)	90 / 3.5	95 / 3.7	100 / 3.9
Solid square (mm/in)	80 / 3.1	85 / 3.3	90 / 3.5
Piercing plate (mm/in)	25 / 0.9	25 / 0.9	30 / 1.2
Pipe x wall (mm/in)	406 x 9.5 / 15.9 x 0.37	457 x 9.5 / 17.9 x 0.37	559 x 9.5 / 22 x 0.37

Dimensions: standardized wide flange beams (HEA, HEB, HEM) and section steel (IPE, INP) according to DIN EN 10 034 or cross section / sheet thickness in mm/in

Note: The capability to cut the above profiles assumes the tensile strength of the steel 370 N/mm² as well as the shear operating pressure of 350bar/5040psi. In borderline cases, we recommend an actual test cut is made to determine whether the profile in question can be cut. Larger beams can be often cut in two steps.



Technical drawing



Concrete Crusher 14-45t / 30,800-99,000lbs

DCC

The DCC 2-cylinder concrete crushers have been especially developed for demolishing the thickest reinforced concrete, such as viaducts, quaysides and heavy foundations. The DCC concrete crusher works perfectly in combination with the latest model excavators as well as specialized „High Reach Demolition Machines“.

- **25% more power and extremely fast cycle times** because of Dema Power 2.0 System.
- Double rotator motors or single piston motor ensure a **high rotation force**.
- **Filters in rotator** protect rotation circuit. High penetrating force for cutting.
- **Robust slewing ring** ensures it will survive even the heaviest demolition work.
- **Highly durable jaws. Optimum cylinder protection.**
- **Hydraulic system completely protected** by the yoke.
- Patented safety system to prevent overpressurisation of hydraulic cylinder rod side.
- **3 versions: A, C and D** (see drawing below).



Concrete Crushers DCC

Type	Operating weight* (t/lbs)	Weight** (approx.) (kg/lbs)	Jaw opening (mm/in)	Length (mm/in)	Closing force at point 1 (approx.) (t/lbs)
DCC-20-A	14 - 20 / 30,800 - 44,000	1,500 / 3,300	-	-	85 / 187,000
DCC-20-C	14 - 20 / 30,800 - 44,000	1,500 / 3,300	-	-	85 / 187,000
DCC-20-D	14 - 20 / 30,800 - 44,000	1,500 / 3,300	-	-	85 / 187,000
DCC-25-A	18 - 25 / 39,600 - 55,000	2,000 / 4,400	1,000 / 39.4	2,195 / 86.4	105 / 231,000
DCC-25-C	18 - 25 / 39,600 - 55,000	2,100 / 4,620	1,000 / 39.4	2,195 / 86.4	105 / 231,000
DCC-25-D	18 - 25 / 39,600 - 55,000	2,000 / 4,400	980 / 38.6	2,195 / 86.4	105 / 231,000
DCC-30-A	20 - 35 / 44,000 - 77,000	2,425 / 5,335	1,150 / 45.3	2,390 / 94.1	120 / 264,000
DCC-30-C	20 - 35 / 44,000 - 77,000	2,465 / 5,423	1,150 / 45.3	2,390 / 94.1	120 / 264,000
DCC-30-D	20 - 35 / 44,000 - 77,000	2,425 / 5,335	1,125 / 44.3	2,390 / 94.1	120 / 264,000
DCC-40-A	25 - 45 / 55,000 - 99,000	3,250 / 7,150	1,360 / 53.5	2,545 / 100.2	135 / 297,000
DCC-40-C	25 - 45 / 55,000 - 99,000	3,300 / 7,260	1,360 / 53.5	2,545 / 100.2	135 / 297,000
DCC-40-D	25 - 45 / 55,000 - 99,000	3,250 / 7,150	1,355 / 53.3	2,545 / 100.2	135 / 297,000

*calculated

**without adapter

Hydraulics

Typ	Open / close		Rotation		Back pressure max. (bar/psi)	Cycle times (sec)
	Pmax (bar/psi)	Flow (l/min/GPM)	Pmax (bar/psi)	Flow (l/min/GPM)		
DCC-20	-	-	-	-	-	-
DCC-25	380 / 5,510	150 - 250 / 40 - 66	140 / 2,030	40 - 60 / 10.5 - 16	-	2.3 / 3.0
DCC-30	380 / 5,510	200 - 300 / 53 - 79.5	140 / 2,030	40 - 60 / 10.5 - 16	-	2.5 / 3.4
DCC-40	380 / 5,510	250 - 350 / 66 - 92.5	140 / 2,030	40 - 60 / 10.5 - 16	-	3.3 / 3.6

Technical drawing



DCC-A
Standard



DCC-C
with exchangeable tips, shrouds
and long cutting blades



DCC-D
with exchangeable wear parts
and standard cutting blades

Request? exc@kinshofer.com

Static Pulverisers 20-50t / 44,000-110,000lbs

DSP

Designed for secondary demolition, our Static Pulverisers (standard or Extreme version) can both break up reinforced concrete structures and separate the steel. Up to 20% additional power and fast cycle times are achieved using the patented DemaPower cylinder concept for the Extreme version.

- ▷ **DemaPower** achieves optimal speed and power (Extreme version).
- ▷ All **teeth and scrapers** are exchangeable.
- ▷ **Exchangeable ground tooth plate and shrouds**.
- ▷ Bearing points are engineered for **optimum load handling and reduced wear**.
- ▷ Integrated **dual action speed valve**.
- ▷ Optional: **exchangeable cutting blades**.
- ▷ **Wear parts** are exchangeable on site.



Pulverisers DSP / DSP-Extreme

Type	Operating weight (t/lbs)	Weight (kg/lbs)	Closing force* (t/lbs)
DSP-30	20 - 35 / 44,000 - 77,000	2,135 / 4,697	80 / 176,000
DSP-30-Extreme	20 - 35 / 44,000 - 77,000	2,115 / 4,653	100 / 220,000
DSP-45	30 - 50 / 66,000 - 110,000	2,670 / 5,874	110 / 242,000
DSP-45-Extreme	30 - 50 / 66,000 - 110,000	2,645 / 5,819	130 / 286,000

*closing force calculated at front tooth

Dimensions

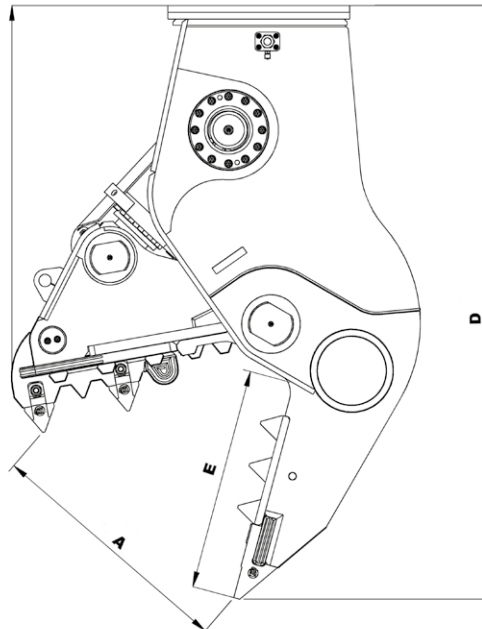
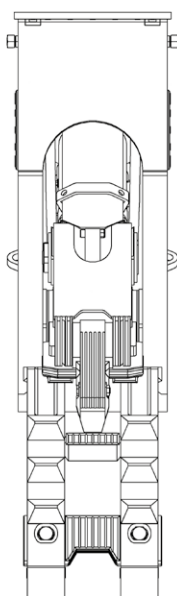
Type	Jaw opening A (mm/in)	Lower jaw width (mm/in)	Upper jaw width (mm/in)	Height D (mm/in)	Jaw depth E (mm/in)	Cutting blades length** (mm/in)
DSP-30	885 / 34.8	490 / 19.3	350 / 13.8	2,145 / 84.4	840 / 33.1	200 / 7.9
DSP-30-Extreme	885 / 34.8	490 / 19.3	350 / 13.8	2,145 / 84.4	840 / 33.1	200 / 7.9
DSP-45	1,015 / 40	525 / 20.7	400 / 15.7	2,360 / 92.9	900 / 35.4	200 / 7.9
DSP-45-Extreme	1,015 / 40	525 / 20.7	400 / 15.7	2,360 / 92.9	900 / 35.4	200 / 7.9

** cutting blades optional, not in standard package

Hydraulics

Type	Pressure max. (bar/psi)	Open / close Flow (l/min/GPM)	Cycle times (open/close) (sec)
DSP-30	380 / 5,510	150 - max. 250 / 40 - max. 66	2.5 / 2.5
DSP-30-Extreme	380 / 5,510	150 - max. 250 / 40 - max. 66	2.0 / 2.3
DSP-45	380 / 5,510	200 - max. 300 / 53 - max. 79.5	2.6 / 2.9
DSP-45-Extreme	380 / 5,510	200 - max. 300 / 53 - max. 79.5	2.0 / 2.9

Technical drawing



DSP-30-Extreme

Rotating Pulverisers 20-50t / 44,000-110,000lbs

DSP-R

Designed for secondary demolition, our Rotating Pulverisers (standard or Extreme version) can both break up reinforced concrete structures and separate the steel. Up to 20% additional power and fast cycle times are achieved using the patented DemaPower cylinder concept for the Extreme version. Including a 360° rotation.

- ▷ DemaPower achieves optimal speed and power (Extreme version).
- ▷ All teeth and scrapers are exchangeable.
- ▷ Exchangeable ground tooth plate and shrouds.
- ▷ Bearing points are engineered for optimum load handling and reduced wear.
- ▷ Integrated dual action speed valve.
- ▷ Optional: exchangeable cutting blades.
- ▷ Wear parts are exchangeable on site.
- ▷ 360° rotation included.



Pulverisers DSP-R / DSP-R-Extreme

Type	Operating weight (t/lbs)	Weight (kg/lbs)	Closing force* (t/lbs)
DSP-30-R	20 - 35 / 44,000 - 77,000	2,510 / 5,522	80 / 176,000
DSP-30-R-Extreme	20 - 35 / 44,000 - 77,000	2,490 / 5,478	100 / 220,000
DSP-45-R	30 - 50 / 66,000 - 110,000	3,045 / 6,699	110 / 242,000
DSP-45-R-Extreme	30 - 50 / 66,000 - 110,000	3,020 / 6,644	130 / 286,000

*closing force calculated at front tooth

Dimensions

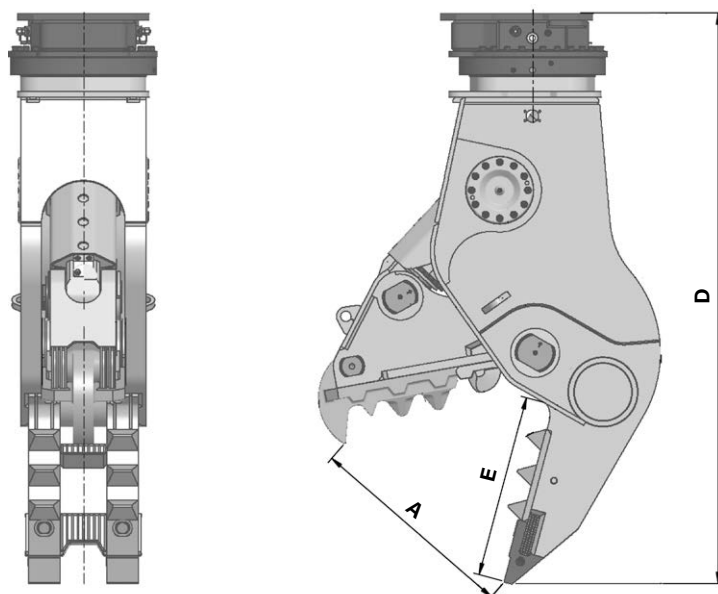
Type	Jaw opening A (mm/in)	Lower jaw width (mm/in)	Upper jaw width (mm/in)	Height D (mm/in)	Jaw depth E (mm/in)	Cutting blades length** (mm/in)
DSP-30-R	885 / 34.8	490 / 19.3	350 / 13.8	2,515 / 99.0	840 / 33.1	200 / 7.9
DSP-30-R-Extreme	885 / 34.8	490 / 19.3	350 / 13.8	2,515 / 99.0	840 / 33.1	200 / 7.9
DSP-45-R	1,015 / 40.0	525 / 20.7	400 / 15.7	2,730 / 107.5	900 / 35.4	200 / 7.9
DSP-45-R-Extreme	1,015 / 40.0	525 / 20.7	400 / 15.7	2,730 / 107.5	900 / 35.4	200 / 7.9

** cutting blades optional, not in standard package

Hydraulics

Type	Pressure max. (bar/psi)	Open / close Flow (l/min/GPM)	Rotate Pressure max. (bar/psi)	Flow (l/min/GPM)	Cycle times (open/close) (sec)
DSP-30-R	380 / 5,510	150 - max. 250 / 40 - max. 66	140 / 2,030	60 / 16	2.5 / 2.5
DSP-30-R-Extreme	380 / 5,510	150 - max. 250 / 40 - max. 66	140 / 2,030	60 / 16	2.0 / 2.3
DSP-45-R	380 / 5,510	200 - max. 300 / 53 - max. 79.5	140 / 2,030	60 / 16	2.6 / 2.9
DSP-45-R-Extreme	380 / 5,510	200 - max. 300 / 53 - max. 79.5	140 / 2,030	60 / 16	2.0 / 2.9

Technical drawing



DSP-45-R

Earth Drills 10-22t / 22,000-48,400lbs 15000MAX / 20000MAX / 25000MAX

The robust earth drills for excavators from 10t / 22,000lbs to 22t / 48,400lbs operating weight is an economical and customized solution for drilling holes for e.g. fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- **Non Dislodgement Shaft (NDS)** for more safety and lower down times, as this unique construction prevents the output shaft from dislodgement.
- **Pre-filled with a colored gear oil.** Not only is the use of a colored oil a good indicator of correct service, but it also aids identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature **forged steel ears**; these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- **Easy access oil service points.**
- Optional for screw pile installation: **torque meter** for real time applied torque measuring.



Earth Drills 15000MAX / 20000MAX / 25000MAX

Type	Operating weight (t/lbs)	Shaft (mm/in)	Rotations (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Matching augers
15000MAX	10 - 15 / 22,000 - 33,000	75 / 2.9 square	20 - 43	930 / 36.6	290 / 11.4	173 / 381	S6 150 - 1200
20000MAX	13 - 20 / 28,600 - 44,000	75 / 2.9 square	16 - 33	1,130 / 44.5	345 / 13.6	268 / 590	S6 150 - 1200
25000MAX	15 - 22 / 33,000 - 48,400	75 / 2.9 square	12 - 26	1,130 / 44.5	345 / 13.6	269 / 592	S6 150 - 1500

Package consists of: earth drill

Accessories

Type	Description
S6 Ext-E 1500	extension for earth drills 15000MAX to 25000MAX and S6 augers – 1,500mm / 59.1in length
S6 Ext-E 2000	extension for earth drills 15000MAX to 25000MAX and S6 augers – 2,000mm / 78.7in length
S6 Ext-E 2500	extension for earth drills 15000MAX to 25000MAX and S6 augers – 2,500mm / 98.4in length
S6 Ext-E 3000	extension for earth drills 15000MAX to 25000MAX and S6 augers – 3,000mm / 118.1in length
single pin hitch	for earth drills 15000MAX to 25000MAX
double pin hitch	for earth drills 15000MAX to 25000MAX
cradle hitch	for earth drills 15000MAX to 25000MAX
PRV-15000MAX-25000MAX	pressure relief valve for earth drills 15000MAX to 25000MAX

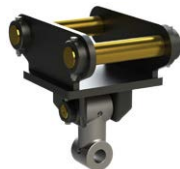
Technical data

	15000MAX	20000MAX	25000MAX
Hydraulic pressure:	80 - 240 bar / 1,160 - 3,480 psi	160 - 240 bar / 2,320 - 3,480 psi	160 - 240 bar / 2,320 - 3,480 psi
Oil flow:	80 - 170 l/min / 21 - 45 GPM	80 - 170 l/min / 21 - 45 GPM	80 - 170 l/min / 21 - 45 GPM
Torque range:	5,024 - 15,071 Nm / 3,705.2 - 11,114.9 ft.lbs.	13,043 - 19,564 Nm / 9,619.2 - 14,428.5 ft.lbs.	16,503 - 24,755 Nm / 12,171 - 18,256.8 ft.lbs.

Pictures



single pin hitch



double pin hitch



bi-directional valve



cradle hitch



pressure relief valve



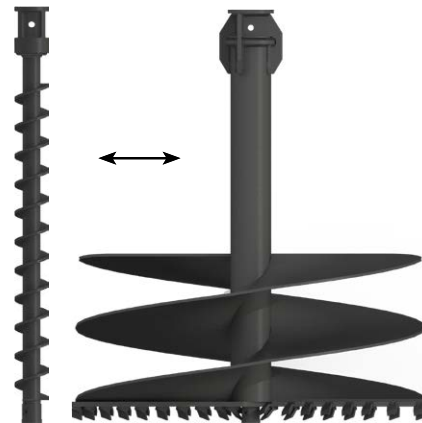
extension
telescopic extension

Augers

S6

The S6 auger is perfectly matched to the corresponding earth drills and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity.

- **Higher productivity** by constant spiral configuration and the perfectly angled tooth holder.
- **Interchangeable pilots and teeth** allow for differing ground conditions.
- **Easy fitting of teeth and pilots.**
- **Patented Shock Lock-System:** incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin to prevent tooth loss.
- **High flexibility** thanks to different auger extensions and telescopic extensions.



S6 Augers (specify choice of pilot and teeth when ordering)

Type	Diameter (mm/in)	Spiral length (mm/in)	Total length (mm/in)	Connection (mm/in)	Weight (kg/lbs)	Number of teeth	Tooth type
S6-150-E Earth	150 / 5.9	1,320 / 52.0	1,880 / 74	75 / 2.9 square	58 / 128	0	Earth
S6-150-E Tungsten					58 / 128	0	Tungsten
S6-150-E Rock					58 / 128	2	Rock
S6-200-E Earth	200 / 7.9	1,200 / 47.2	1,880 / 74	75 / 2.9 square	55 / 121	2	Earth
S6-200-E Tungsten					59 / 130	2	Tungsten
S6-200-E Rock					59 / 130	3	Rock
S6-225-E Earth	225 / 8.9	1,203 / 47.4	1,880 / 74	75 / 2.9 square	62 / 136	2	Earth
S6-225-E Tungsten					62 / 136	2	Tungsten
S6-225-E Rock					62 / 136	4	Rock
S6-250-E Earth	250 / 9.8	1,225 / 48.2	1,880 / 74	75 / 2.9 square	67 / 147	2	Earth
S6-250-E Tungsten					67 / 147	2	Tungsten
S6-250-E Rock					66 / 145	4	Rock
S6-300-E Earth	300 / 11.8	1,200 / 47.2	1,880 / 74	75 / 2.9 square	82 / 180	4	Earth
S6-300-E Tungsten					82 / 180	4	Tungsten
S6-300-E Rock					81 / 178	5	Rock
S6-350-E Earth	350 / 13.8	1,125 / 44.3	1,880 / 74	75 / 2.9 square	90 / 198	4	Earth
S6-350-E Tungsten					90 / 198	4	Tungsten
S6-350-E Rock					89 / 196	6	Rock
S6-400-E Earth	400 / 15.7	1,000 / 39.4	1,880 / 74	75 / 2.9 square	98 / 216	5	Earth
S6-400-E Tungsten					98 / 216	5	Tungsten
S6-400-E Rock					97 / 213	7	Rock
S6-450-E Earth	450 / 17.7	1,000 / 39.4	1,880 / 74	75 / 2.9 square	111 / 244	6	Earth
S6-450-E Tungsten					111 / 244	6	Tungsten
S6-450-E Rock					109 / 240	8	Rock
S6-500-E Earth	500 / 19.7	1,000 / 39.4	1,880 / 74	75 / 2.9 square	125 / 275	6	Earth
S6-500-E Tungsten					125 / 275	6	Tungsten
S6-500-E Rock					123 / 271	9	Rock
S6-600-E Earth	600 / 23.6	900 / 35.4	1,880 / 74	75 / 2.9 square	137 / 301	8	Earth
S6-600-E Tungsten					138 / 304	8	Tungsten
S6-600-E Rock					136 / 299	11	Rock
S6-750-E Earth	750 / 29.5	875 / 34.4	1,880 / 74	75 / 2.9 square	168 / 370	9	Earth
S6-750-E Tungsten					168 / 370	9	Tungsten
S6-750-E Rock					170 / 374	14	Rock
S6-800-E Earth	800 / 31.5	875 / 34.4	1,880 / 74	75 / 2.9 square	189 / 416	9	Earth
S6-800-E Tungsten					189 / 416	9	Tungsten
S6-800-E Rock					187 / 411	15	Rock
S6-900-E Earth	900 / 35.4	875 / 34.4	1,880 / 74	75 / 2.9 square	224 / 493	10	Earth
S6-900-E Tungsten					224 / 493	10	Tungsten
S6-900-E Rock					221 / 486	17	Rock
S6-1000-E Earth	1,000 / 39.4	700 / 27.6	1,880 / 74	75 / 2.9 square	229 / 504	11	Earth
S6-1000-E Tungsten					229 / 504	11	Tungsten
S6-1000-E Rock					226 / 497	19	Rock
S6-1200-E Earth	1,200 / 47.2	600 / 23.6	1,880 / 74	75 / 2.9 square	316 / 695	15	Earth
S6-1200-E Tungsten					316 / 695	15	Tungsten
S6-1200-E Rock					316 / 695	23	Rock
S6-1500-E Earth	1,500 / 59.1	600 / 23.6	1,880 / 74	75 / 2.9 square	-	-	Earth
S6-1500-E Tungsten					-	-	Tungsten
S6-1500-E Rock					-	-	Rock

Request? exc@kinshofer.com

Earth Drills 20-45t / 44,000-99,000lbs 35000MAX / 42000MAX / 65000MAX

The robust earth drills for excavators from 20t / 44,000lbs to 45t / 99,000lbs operating weight is an economical and customized solution for drilling holes for e.g. fencing, road signage, landscaping and tree planting. Well borings, screw pile installations and sound barrier installations are also no problem for the earth drills.

- **Non Dislodgement Shaft (NDS)** for more safety and lower down times, as this unique construction prevents the output shaft from dislodgement.
- **Pre-filled with a colored gear oil.** Not only is the use of a colored oil a good indicator of correct service, but it also aids identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature **forged steel ears**; these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- **Easy access oil service points.**
- Optional for screw pile installation: **Alignment monitor** for vertical adjustment.



Request? exc@kinshofer.com

Earth Drills 35000MAX / 42000MAX / 65000MAX

Type	Operating weight (t/lbs)	Shaft (mm/in)	Rotations (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)	Matching augers
35000MAX	20 - 45 / 44,000 - 99000	110 / 4.3 square	11 - 31	1,411 / 55.6	406 / 16	442 / 972	PA 300 - 1500
42000MAX	20 - 45 / 44,000 - 99000	110 / 4.3 square	9 - 26	1,411 / 55.6	406 / 16	442 / 972	PA 300 - 1800
65000MAX	21 - 45 / 46200 - 99,000	110 / 4.3 square	8 - 21	1,556 / 61.3	406 / 16	480 / 1,056	PA 300 - 2400

Package consists of: earth drill

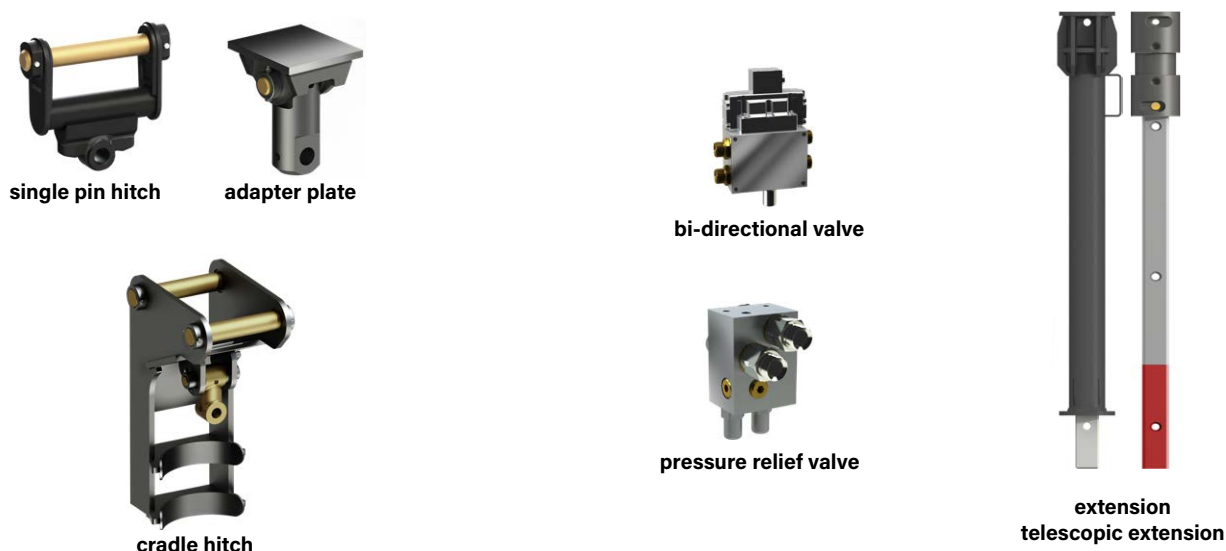
Accessories

Type	Description
PA Ext 2000	extension for earth drills 35000MAX to 65000MAX and PA augers – 2,000mm / 78.7in length
PA Ext 3000	extension for earth drills 35000MAX to 65000MAX and PA augers – 3,000mm / 118.1in length
PA TeleExt 2000	telescopic extension for PA augers – 2,000mm / 78.7in length
PA TeleExt 3000	telescopic extension for PA augers – 3,000mm / 118.1in length
single pin hitch	for earth drills 35000MAX to 65000MAX
adapter plate	for earth drills 35000MAX to 65000MAX
cradle hitch	for earth drills 35000MAX to 65000MAX

Technical data

	35000MAX	42000MAX	65000MAX
Hydraulic pressure:	180 - 310bar / 2,610 - 4,500 psi	180 - 310bar / 2,610 - 4,500 psi	160 - 320bar / 2,320 - 4,640 psi
Oil flow:	80 - 225 l/min / 21 - 59.5 GPM	80 - 225 l/min / 21 - 59.5 GPM	100 - 280 l/min / 26.5 - 74 GPM
Torque range:	20,510 - 35,323 Nm / 15,126.1 - 26,050.7 ft.lbs.	24,612 - 42,387 Nm / 18,151.4 - 31,260.4 ft.lbs.	33,295 - 66,589 Nm / 24,555.1 - 49,109.4 ft.lbs

Pictures

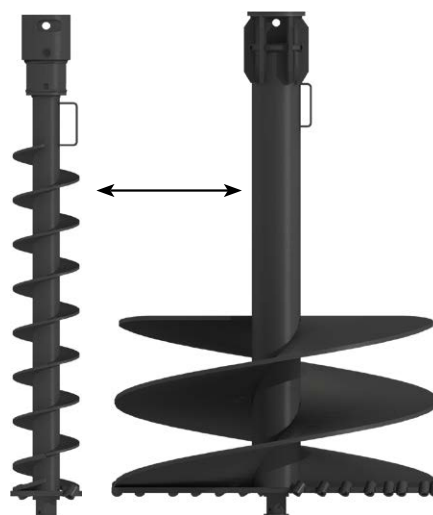


Heavy Duty Augers

PA

The PA auger is perfectly matched to the corresponding earth drills and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity.

- **Higher productivity** by constant spiral configuration and the perfectly angled tooth holder.
- **Interchangeable pilots and teeth** allow for differing ground conditions.
- **Easy fitting of teeth and pilots.**
- **Patented Shock Lock-System:** incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin to prevent tooth loss.
- **High flexibility** thanks to different auger extensions and telescopic extensions.
- Available in two lengths: 2,380mm / 93.7in or 3,380mm / 133.1in.



PA Augers 2380 mm (specify choice of pilot and teeth when ordering)

Type	Diameter (mm/in)	Spiral length (mm/in)	Total length (mm/in)	Connection (mm/in)	Weight (kg/lbs)	Number of teeth	Tooth type
PA-300-2380 Earth	300 / 11.8	1,558 / 61.3	2,380 / 93.7	110 / 4.3 square	165 / 363	3	Earth
PA-300-2380 Rock					165 / 363	3	Rock
PA-350-2380 Earth	350 / 13.8	1,527 / 60.1	2,380 / 93.7	110 / 4.3 square	177 / 389	3	Earth
PA-350-2380 Rock					177 / 389	3	Rock
PA-400-2380 Earth	400 / 15.7	1,446 / 56.9	2,380 / 93.7	110 / 4.3 square	190 / 418	4	Earth
PA-400-2380 Rock					190 / 418	4	Rock
PA-450-2380 Earth	450 / 17.7	1,446 / 56.9	2,380 / 93.7	110 / 4.3 square	211 / 464	4	Earth
PA-450-2380 Rock					211 / 464	4	Rock
PA-500-2380 Earth	500 / 19.7	1,446 / 56.9	2,380 / 93.7	110 / 4.3 square	235 / 517	5	Earth
PA-500-2380 Rock					235 / 517	5	Rock
PA-600-2380 Earth	600 / 23.6	1,433 / 56.4	2,380 / 93.7	110 / 4.3 square	167 / 367	6	Earth
PA-600-2380 Rock					167 / 367	6	Rock
PA-750-2380 Earth	750 / 29.5	1,321 / 52.0	2,380 / 93.7	110 / 4.3 square	318 / 399	7	Earth
PA-750-2380 Rock					318 / 399	7	Rock
PA-800-2380 Earth	800 / 31.5	1,321 / 52.0	2,380 / 93.7	110 / 4.3 square	344 / 756	8	Earth
PA-800-2380 Rock					344 / 756	8	Rock
PA-900-2380 Earth	900 / 35.4	1,321 / 52.0	2,380 / 93.7	110 / 4.3 square	412 / 906	10	Earth
PA-900-2380 Rock					412 / 906	10	Rock
PA-1000-2380 Earth	1,000 / 39.4	971 / 38.2	2,380 / 93.7	110 / 4.3 square	140 / 308	10	Earth
PA-1000-2380 Rock					140 / 308	10	Rock
PA-1200-2380 Earth	1,200 / 47.2	908 / 35.7	2,380 / 93.7	110 / 4.3 square	522 / 1,148	12	Earth
PA-1200-2380 Rock					522 / 1,148	12	Rock
PA-1500-2380-Earth	1,500 / 59.1	750 / 29.5	2,380 / 93.7	110 / 4.3 square	735 / 1,617	15	Erde
PA-1500-2380-Rock					735 / 1,617	15	Fels

PA Augers 3380 mm (specify choice of pilot and teeth when ordering)

Type	Diameter (mm/ in)	Spiral length (mm/ in)	Total length (mm/ in)	Connection (mm/in)	Tooth type
PA-300-3380 Earth	300 / 11.8	1,558 / 61.3	3,380 / 133.1	110 / 4.3 square	Earth
PA-300-3380 Rock					Rock
PA-350-3380 Earth	350 / 13.8	1,527 / 60.1	3,380 / 133.1	110 / 4.3 square	Earth
PA-350-3380 Rock					Rock
PA-400-3380 Earth	400 / 15.7	1,446 / 56.9	3,380 / 133.1	110 / 4.3 square	Earth
PA-400-3380 Rock					Rock
PA-450-3380 Earth	450 / 17.7	1,446 / 56.9	3,380 / 133.1	110 / 4.3 square	Earth
PA-450-3380 Rock					Rock
PA-500-3380 Earth	500 / 19.7	1,446 / 56.9	3,380 / 133.1	110 / 4.3 square	Earth
PA-500-3380 Rock					Rock
PA-600-3380 Earth	600 / 23.6	1,433 / 56.4	3,380 / 133.1	110 / 4.3 square	Earth
PA-600-3380 Rock					Rock
PA-750-3380 Earth	750 / 29.5	1,321 / 52	3,380 / 133.1	110 / 4.3 square	Earth
PA-750-3380 Rock					Rock
PA-800-3380 Earth	800 / 31.5	1,321 / 52	3,380 / 133.1	110 / 4.3 square	Earth
PA-800-3380 Rock					Rock
PA-900-3380 Earth	900 / 35.4	1,321 / 52	3,380 / 133.1	110 / 4.3 square	Earth
PA-900-3380 Rock					Rock
PA-1000-3380 Earth	1,000 / 39.4	971 / 38.2	3,380 / 133.1	110 / 4.3 square	Earth
PA-1000-3380 Rock					Rock
PA-1200-3380 Earth	1,200 / 47.2	908 / 35.7	3,380 / 133.1	110 / 4.3 square	Earth
PA-1200-3380 Rock					Rock

Request? exc@kinshofer.com

Torque Heads 21-50t / 46,200-110,000lbs

100000MAX / 150000MAX

The Heavy Duty drives are specifically designed for foundation screw pile installations and available for excavators with 21t/46,200lbs up to 50t/110,000lbs operating weight. The screw pile drives are manufactured according to the highest quality standards in terms of technology and materials, providing the end user with the highest level of reliability.

- **Non Dislodgement Shaft (NDS)** for more safety and lower down times, as this unique construction prevents the output shaft from dislodgement.
- **Pre-filled with a colored gear oil.** Not only is the use of a colored oil a good indicator of correct service, but it also aids identifying possible hydraulic oil leaks.
- The heavy duty fabricated hoods feature **forged steel ears**; these high strength ears easily transmit the high torsional loads, experienced whilst drilling, without becoming fatigued.
- **Easy access oil service points.**
- Optional for screw pile installation: **Alignment monitor** for vertical adjustment.



150000MAX

Torque Heads 100000MAX / 150000MAX

Type	Operating weight (t/lbs)	Shaft	Rotations (RPM)	Height (mm/in)	Diameter (mm/in)	Weight (kg/lbs)
100000MAX	21 - 50 / 46,200 - 110,000	150 mm hex/ 5.9 in	5 - 15	1,625 / 63.9	635 / 25	1,060 / 2,335
150000MAX	21 - 50 / 46,200 - 110,000	150 mm hex/ 5.9 in	4 - 12	1,865 / 73.4	765 / 30	1,490 / 3,278

Package consists of: torque heads

Accessories

Type	Description
double pin hitch	for torque heads
cradle hitch	for torque heads

Technical data

	100000MAX	150000MAX
Hydraulic pressure:	160 - 350 bar / 2,321 - 5,076 psi	160 - 340 bar / 2,321 - 4,931 psi
Oil flow:	100 - 280 l/min / 26.4 - 74 GPM	100 - 340 l/min / 26.4 - 89.8 GPM
Torque range:	45,746 - 100,069 Nm / 33,741 - 73,807 ft.lbs.	71,680 - 152,319 Nm / 52,868 - 112,344 ft.lbs.

Pictures



cradle hitch



In-Site Monitor

In-Site Monitor

The In-Site range of products are the must have tool to enable you to perform with the required accuracy, precision and efficiency across all your torque applications. With three variants, In-Site is perfect for operators in all environments to get the best possible performance from their drive units.

Data can be viewed in real-time, allowing immediate adjustments as required to help keep jobsites as problem free as possible. Data can also be viewed offline in an easy to use dashboard format to give that enhanced level of understanding.



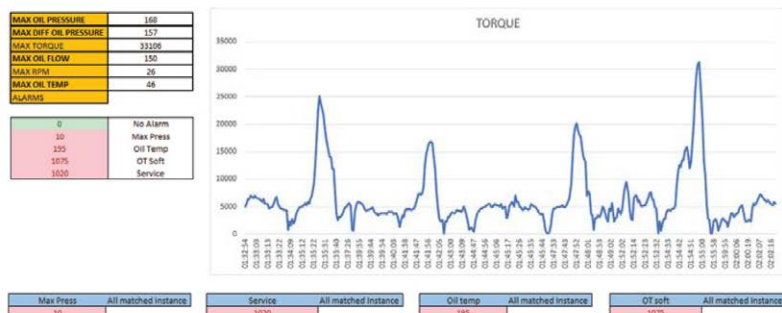
- ▷ Plug-and-Play
- ▷ Real time data analysis
- ▷ Wireless touch screen display
- ▷ Alignment monitor
- ▷ Pressure readouts
- ▷ Calculated torque value
- ▷ Internal oil temperature records
- ▷ Time and date stamp of data
- ▷ Unit switch from metric to imperial
- ▷ Servicing alarm
- ▷ Temperature alarm
- ▷ Total run time



In-Site Monitor

Type	Alignment sensor	Pressure sensor	Flow sensor (mm)	Temperature sensor (mm)	Earth drill compatibility	Operating weight (t/lbs)
In-Site Align	✓	-	-	-	from X1500	> 1 / 2,200
In-Site Data	✓	✓	-	-	from X1500	> 1 / 2,200
In-Site Data Plus	✓	✓	500 x 325 / 19.7 x 12.8	320 x 310 / 12.6 x 12.2	from 20000MAX	> 13 / 28,600

Example



Mounting options for Earth Drills

Single pin hitches



Type	for earth drills	with pin Ø (mm/in)	Operating weight (t/lbs)
KM 501-15000MAX-25000MAX-44,5	15000MAX - 25000MAX	44.5 / 1.75	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-45	15000MAX - 25000MAX	45 / 1.77	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-50	15000MAX - 25000MAX	50 / 1.97	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-55	15000MAX - 25000MAX	55 / 2.17	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-60	15000MAX - 25000MAX	60 / 2.36	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-65	15000MAX - 25000MAX	65 / 2.56	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-70	15000MAX - 25000MAX	70 / 2.76	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-75	15000MAX - 25000MAX	75 / 2.95	8 - 22 / 17,600 - 48,400
KM 501-15000MAX-25000MAX-80	15000MAX - 25000MAX	80 / 3.15	8 - 22 / 17,600 - 48,400
KM 501-35000MAX-65000MAX-60	35000MAX - 65000MAX	60 / 2.36	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-65	35000MAX - 65000MAX	65 / 2.56	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-70	35000MAX - 65000MAX	70 / 2.76	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-75	35000MAX - 65000MAX	75 / 2.95	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-80	35000MAX - 65000MAX	80 / 3.15	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-90	35000MAX - 65000MAX	90 / 3.54	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-100	35000MAX - 65000MAX	100 / 3.94	20 - 45 / 44,000 - 96,800
KM 501-35000MAX-65000MAX-110	35000MAX - 65000MAX	110 / 4.33	20 - 45 / 44,000 - 96,800

Cardan link with system L-Lock



Type	for earth drills	with adapter	Operating weight (t/lbs)
KSW10-15000MAX	15000MAX	KSW10	10 - 15 / 22,000 - 33,000
KSW10-20000MAX	20000MAX	KSW10	13 - 20 / 28,600 - 44,000
KSW21-25000MAX	25000MAX	KSW21/25	15 - 22 / 33,000 - 48,400
KSW21-35000MAX	35000MAX	KSW21/25	20 - 45 / 44,000 - 96,800
KSW21-42000MAX	42000MAX	KSW21/25	20 - 45 / 44,000 - 96,800
KSW21-65000MAX	65000MAX	KSW21/25	21 - 45 / 46,200 - 96,800

Cradle hitch with system L-Lock



Type	for earth drills	with adapter	Operating weight (t/lbs)
KSW10-15000MAX Cradle	15000MAX	KSW10	10 - 15 / 22,000 - 33,000
KSW10-20000MAX Cradle	20000MAX	KSW10	13 - 20 / 28,600 - 44,000
KSW21-25000MAX Cradle	25000MAX	KSW21/25	15 - 22 / 33,000 - 48,400

Lower part of hitch for specific solution



Type	for earth drills	Operating weight (t/lbs)
KM 691-15000MAX-25000MAX	15000MAX - 25000MAX	10 - 22 / 22,000 - 48,400
KM 691-35000MAX-65000MAX	35000MAX - 65000MAX	20 - 45 / 44,000 - 99,000

Lower part of cradle hitch for specific solution



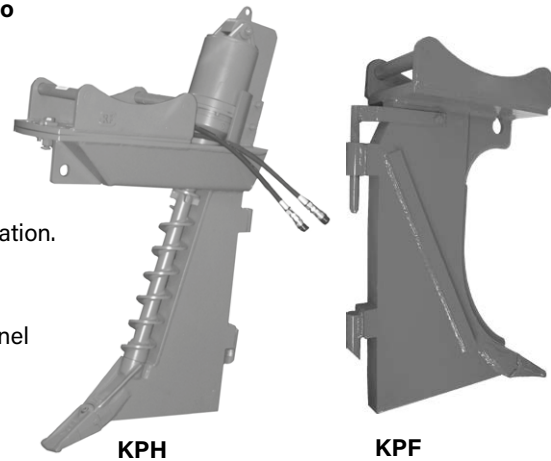
Type	for earth drills	Operating weight (t/lbs)
KM 691-15000MAX Cradle	15000MAX	10 - 15 / 22,000 - 33,000
KM 691-20000MAX-25000MAX Cradle	20000MAX - 25000MAX	13 - 22 / 28,600 - 48,400

Cable Ploughs and Tube Layer 12-20t / 26,400-44,000lbs

KPF / KPH / KPL

The Cable Ploughs are efficient tools to drill channels for cables or hoses. Depending on the type, the plough is suitable for excavators with up to 20t / 44,000lbs operating weight. The ploughs are available as mechanical (KPF) and hydraulic (KPH) version.

- ▷ **Solid Design:** very robust without protruding parts.
- ▷ **Robust:** also drills hard soil.
- ▷ **Plough kinematics:** easy plowing, even through roots and other vegetation.
- ▷ **Easy installation** onto the carrier machine.
- ▷ **Different widths** available.
- ▷ **One work step:** opening for positioning of cables or hoses in the channel saves time.
- ▷ **Safety:** better balance between plough and carrier.
- ▷ **KPH:** incl. hydraulic auger.
- ▷ **Optional:** KPL tube layer incl. cable drum mountable.



Cable Ploughs KPF / KPH and Tube Layers KPL

Type	Lower plough width (mm/in)	Height (mm/in)	Weight (kg/lbs)	Operating weight (t/lbs)
KPF 14	70 / 2.8	1,000 / 39.4	300 / 660	12-14/ 26,400-30,800
KPF 18	70 / 2.8	1,000 / 39.4	330 / 726	14-18/30,800-39,600
KPF 20	70 / 2.8	1,000 / 39.4	370 / 814	18-20/ 39,600-44,000
KPH 18	70 / 2.8	1,000 / 39.4	300 / 660	12-18/ 26,400-39,600
KPL 02	30 / 1.2	1,000 / 39.4	60 / 132	-
KPL 03	40 / 1.6	1,000 / 39.4	65 / 143	-
KPL 04	50 / 2	1,000 / 39.4	70 / 154	-
KPL 05	60 / 2.4	1,000 / 39.4	75 / 165	-
KPL 06	70 / 2.8	1,000 / 39.4	95 / 209	-
KPL 07	95 / 3.7	1,000 / 39.4	115 / 253	-
KPL 08	120 / 4.7	1,000 / 39.4	140 / 308	-

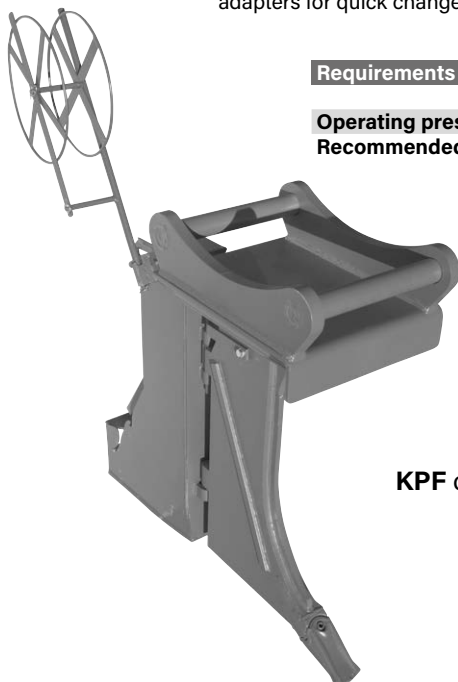
Package consists of: cable plough or tube layer respectively (KPL incl. support for marker tape)

Accessories

Type	Description
KST 09	support for marker tape at tube layer
KST 12	wire rope between cable plough and carrier machine – length 4,500mm/177.2in
KM 690 15t	adapter for rigid mounting – up to 15t/33,000lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KSW10 rigid	bolt-on adapter for system L-Lock KMS10L/KHS10L for rigid mounting – up to 19t/41,800lbs
OQ60/2	bolt-on adapter for OilQuick OQ60 – up to 18t/39,600lbs
OQ65/2	bolt-on adapter for OilQuick OQ65 – up to 22t/48,400lbs
	adapters for quick change systems from other manufacturers or different sizes on request

Requirements of carrier machine

Operating pressure max.:	240 bar / 3,480psi
Recommended flow:	27 - 75 l/min / 7 - 20GMP



KPF cable plough with KPL tube layer

Hydraulic Breakers 10-40t / 22,000-88,000lbs

KFX

The KFX breaker-series has two adjusting valves as standard. Firstly, a control valve on the cylinder of the hammer allows the operator to adjust the number of blows generated. A second valve allows the adjustment of the working pressure from 160bar / 2,320psi to 200bar / 2,900psi. Working in tunnels, and even underwater, is also possible by adding air tubes.



- ▷ **Regulation of the operating pressure:** KFX-breakers, regulating the working pressure from 160bar/2,320psi to 200bar/2,900psi can be managed manually by valve adjustment.
- ▷ **Blows adjustment:** For KFX-breakers, regulating the blow rate can be managed manually by adjusting a valve located on the side of the breaker.
- ▷ **Hydraulic system for blank firing:** a regenerative oil circuit that avoids blank firing when the tool is not in contact with the rock.

Technical data KFX

Type	Weight (kg/lbs)	Diameter tool (mm/in)	Energy (J)	Hits per minute (/min)	Height with standard tools (mm/in)	Operating weight (t/lbs)
KFX 16	950 / 2,090	115 / 4.5	2,600	600 - 900	1,940 / 76.4	10 - 17 / 22,000 - 37,400
KFX 20	1,200 / 2,640	120 / 4.7	3,200	400 - 900	2,030 / 79.9	13 - 19 / 28,600 - 41,800
KFX 26	1,650 / 3,630	135 / 5.3	4,200	400 - 800	2,290 / 90.2	18 - 24 / 39,600 - 52,800
KFX 29	1,850 / 4,070	140 / 5.5	4,700	400 - 800	2,515 / 99.0	22 - 27 / 48,400 - 59,400
KFX 32	2,200 / 4,840	150 / 5.9	5,400	400 - 800	2,560 / 100.8	23 - 31 / 50,600 - 68,200
KFX 36	2,900 / 6,380	160 / 6.3	8,500	350 - 700	2,740 / 107.9	28 - 38 / 61,600 - 83,600
KFX 40	3,200 / 7,040	160 / 6.3	9,000	300 - 650	2,740 / 107.9	30 - 40 / 66,000 - 88,000

Package consists of: breaker, two standard tools at option (moil, blunt, pyramid, chisel) and nitrogen adapter

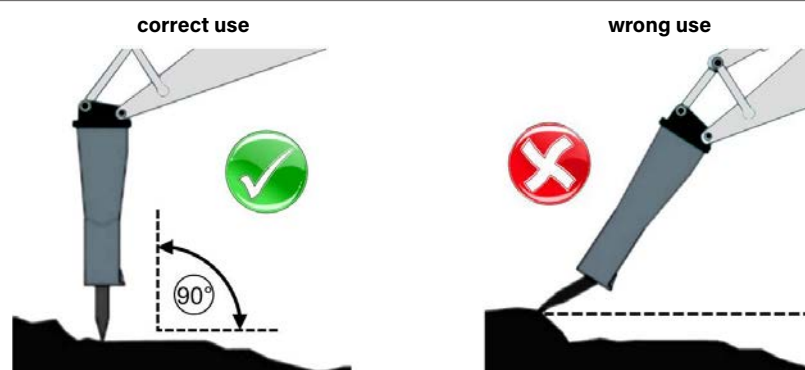
Hydraulics KFX

Type	Pump capacity (l/min/GPM)	Operating pressure (bar/psi)	Back pressure max. (bar/psi)	Inner diameter pressure line	Inner diameter tank line
KFX 16	90 - 120 / 23.8 - 31.7	165 / 2,390	25 / 362	1"	1"
KFX 20	110 - 140 / 29.1 - 37.0	170 / 2,460	25 / 362	1"	1"
KFX 26	130 - 160 / 34.4 - 42.3	180 / 2,610	25 / 362	1"	1"
KFX 29	140 - 180 / 37.0 - 47.6	180 / 2,610	25 / 362	1"	1"
KFX 32	165 - 190 / 43.6 - 50.2	180 / 2,610	25 / 362	1"1/4	1"1/4
KFX 36	180 - 240 / 57.6 - 63.4	180 / 2,610	25 / 362	1"1/4	1"1/4
KFX 40	200 - 260 / 52.8 - 68.7	180 / 2,610	25 / 362	1"1/4	1"1/4

Accessories

Type	Description
KFX-Auto-Lube	automatic greasing system
KFX-Tunnel-Set	specific system for tunnel works
KFX-Water-Set	stops water ingress
KM 690 15t	adapter for rigid mounting – up to 15t/33,000lbs
KM 690 20t	adapter for rigid mounting – up to 20t/44,000lbs
KM 690 27t	adapter for rigid mounting – up to 27t/59,400lbs
KM 690 32t	adapter for rigid mounting – up to 32t/70,400lbs
KM 690 40t	adapter for rigid mounting – up to 40t/88,000lbs
KSW10 rigid	bolt-on adapter for system L-Lock KMS10L/KHS10L for rigid mounting – up to 19t/41,800lbs
KSW21/25 rigid	bolt-on adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t/88,000lbs
OQ	bolt-on adapter for OilQuick – up to 70t/15,4000lbs
	adapters for quick change systems from other manufacturers or different sizes on request

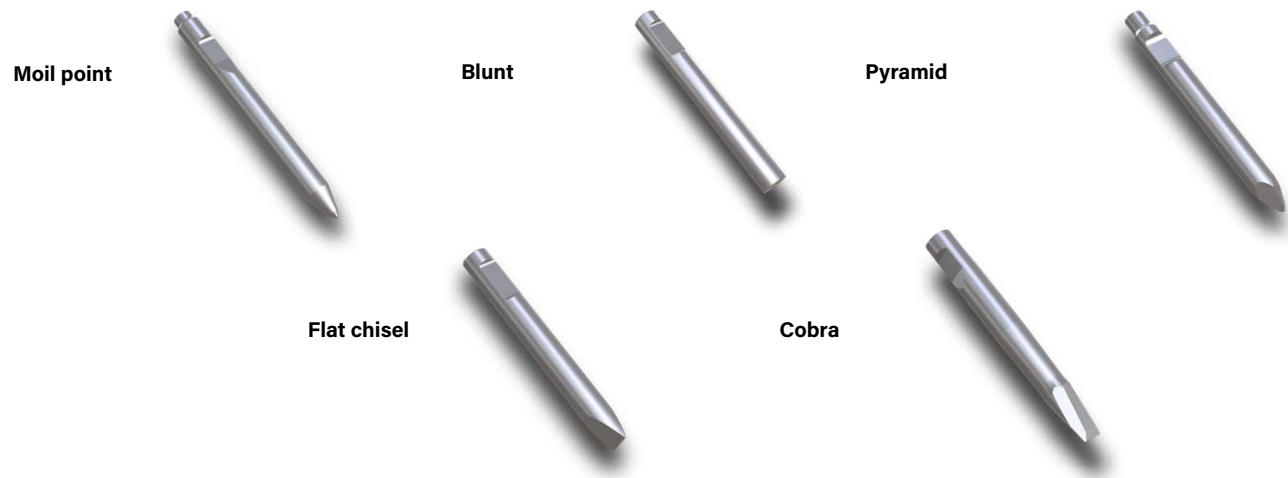
Use



Chisels for Breakers

KFX

Benefit from the large variety of chisels for different tasks.



Tools for KFX			
Type	Suitable for	Diameter (mm/in)	Description
KFX 16 Moil	KFX 16	115 / 4.5	moil chisel for concrete, mediumhard and non-layered rock
KFX 16 Blunt	KFX 16	115 / 4.5	blunt chisel for reinforced concrete and highly compact rock
KFX 16 Pyramid	KFX 16	115 / 4.5	pyramid chisel for reinforced concrete and highly compact rock
KFX 16 Flat chisel	KFX 16	115 / 4.5	flat chisel for medium-hard and layered rock
KFX 16 Cobra	KFX 16	115 / 4.5	cobra chisel for quarry works such as primary demolition and block reduction
KFX 20 Moil	KFX 20	120 / 4.7	moil chisel for concrete, mediumhard and non-layered rock
KFX 20 Blunt	KFX 20	120 / 4.7	blunt chisel for reinforced concrete and highly compact rock
KFX 20 Pyramid	KFX 20	120 / 4.7	pyramid chisel for reinforced concrete and highly compact rock
KFX 20 Flat chisel	KFX 20	120 / 4.7	flat chisel for medium-hard and layered rock
KFX 20 Cobra	KFX 20	120 / 4.7	cobra chisel for quarry works such as primary demolition and block reduction
KFX 26 Moil	KFX 26	135 / 5.3	moil chisel for concrete, mediumhard and non-layered rock
KFX 26 Blunt	KFX 26	135 / 5.3	blunt chisel for reinforced concrete and highly compact rock
KFX 26 Pyramid	KFX 26	135 / 5.3	pyramid chisel for reinforced concrete and highly compact rock
KFX 26 Flat chisel	KFX 26	135 / 5.3	flat chisel for medium-hard and layered rock
KFX 26 Cobra	KFX 26	135 / 5.3	cobra chisel for quarry works such as primary demolition and block reduction
KFX 29 Moil	KFX 29	140 / 5.5	moil chisel for concrete, mediumhard and non-layered rock
KFX 29 Blunt	KFX 29	140 / 5.5	blunt chisel for reinforced concrete and highly compact rock
KFX 29 Pyramid	KFX 29	140 / 5.5	pyramid chisel for reinforced concrete and highly compact rock
KFX 29 Flat chisel	KFX 29	140 / 5.5	flat chisel for medium-hard and layered rock
KFX 29 Cobra	KFX 29	140 / 5.5	cobra chisel for quarry works such as primary demolition and block reduction
KFX 32 Moil	KFX 32	150 / 5.9	moil chisel for concrete, mediumhard and non-layered rock
KFX 32 Blunt	KFX 32	150 / 5.9	blunt chisel for reinforced concrete and highly compact rock
KFX 32 Pyramid	KFX 32	150 / 5.9	pyramid chisel for reinforced concrete and highly compact rock
KFX 32 Flat chisel	KFX 32	150 / 5.9	flat chisel for medium-hard and layered rock
KFX 32 Cobra	KFX 32	150 / 5.9	cobra chisel for quarry works such as primary demolition and block reduction
KFX 36 Moil	KFX 36	160 / 6.3	moil chisel for concrete, mediumhard and non-layered rock
KFX 36 Blunt	KFX 36	160 / 6.3	blunt chisel for reinforced concrete and highly compact rock
KFX 36 Pyramid	KFX 36	160 / 6.3	pyramid chisel for reinforced concrete and highly compact rock
KFX 36 Flat chisel	KFX 36	160 / 6.3	flat chisel for medium-hard and layered rock
KFX 36 Cobra	KFX 36	160 / 6.3	cobra chisel for quarry works such as primary demolition and block reduction
KFX 40 Moil	KFX 40	160 / 6.3	moil chisel for concrete, mediumhard and non-layered rock
KFX 40 Blunt	KFX 40	160 / 6.3	blunt chisel for reinforced concrete and highly compact rock
KFX 40 Pyramid	KFX 40	160 / 6.3	pyramid chisel for reinforced concrete and highly compact rock
KFX 40 Flat chisel	KFX 40	160 / 6.3	flat chisel for medium-hard and layered rock
KFX 40 Cobra	KFX 40	160 / 6.3	cobra chisel for quarry works such as primary demolition and block reduction

Request? exc@kinshofer.com

Mounting Options for Hydraulic Attachments - rigid mount

KM 690 – adapter for rigid mount



Type	Operating weight (t/lbs)
KM 690 15t	up to 15 / 33,000
KM 690 20t	up to 20 / 44,000
KM 690 27t	up to 27 / 59,400
KM 690 32t	up to 32 / 70,400
KM 690 40t	up to 40 / 88,000

KM 691 – adapter for specific solutions



Type	Operating weight (t/lbs)
KM 691 15t	up to 15 / 33,000
KM 691 20t	up to 20 / 44,000
KM 691 27t	up to 27 / 59,400

KSW rigid – bolt-on adapter for quick coupler system L-Lock



Type	for quick coupler System L-Lock	Operating weight (t/lbs)
KSW10 rigid	KMS10L / KHS10L	up to 19 / 41,800
KSW21/25 rigid	KMS21/25L / KHS21/25L	up to 40 / 88,000

S rigid – bolt-on adapter for quick coupler system S-Lock



Type	for quick coupler System S-Lock	Operating weight (t/lbs)
S60 rigid	KMS60S / KHS60S	up to 18 / 39,600
S70 rigid	KMS70S / KHS70S	up to 30 / 66,000

Note: adapters for quick change systems for other manufacturers or other sizes on request

Mounting Options for Hydraulic Attachments - rigid mount

OQ - bolt-on adapter for system „Oilquick“ incl. hoses



Type	For attachments	Operating weight (t/lbs)
OQ60/2 rigid	breakers	8 - 15 / 17,600 - 33,000
OQ60/4 rigid	grabs, shears	8 - 15 / 17,600 - 33,000
OQ60-5/2 rigid	breakers	8 - 15 / 17,600 - 33,000
OQ60-5/3 rigid	compactors, planers	8 - 15 / 17,600 - 33,000
OQ60-5/4 rigid	grabs, shears	8 - 15 / 17,600 - 33,000
OQ65/2 rigid	breakers	14 - 22 / 30,800 - 48,400
OQ65/3 rigid	compactors, planers	14 - 22 / 30,800 - 48,400
OQ65/4 rigid	grabs, shears	14 - 22 / 30,800 - 48,400
OQ70/2 rigid	breakers	15 - 28 / 33,000 - 61,600
OQ70/3 rigid	compactors, planers	15 - 28 / 33,000 - 61,600
OQ70/4 rigid	grabs, shears	15 - 28 / 33,000 - 61,600
OQ70/55/2 rigid	breakers	18 - 32 / 39,600 - 70,400
OQ70/55/3 rigid	compactors, planers	18 - 32 / 39,600 - 70,400
OQ70/55/4 rigid	grabs, shears	18 - 32 / 39,600 - 70,400
OQ80/2 rigid	breakers	25 - 43 / 55,000 - 94,600
OQ80/3 rigid	compactors, planers	25 - 43 / 55,000 - 94,600
OQ80/4 rigid	grabs, shears	25 - 43 / 55,000 - 94,600

SW - bolt-on adapter for system „Liebherr“



Type	Operating weight (t/lbs)
SW48 rigid	14 - 30 / 30,800 - 66,000
SW48 Likufix rigid*	14 - 30 / 30,800 - 66,000
SW66 rigid	28 - 45 / 61,600 - 99,000
SW66 Likufix rigid*	28 - 45 / 61,600 - 99,000

*incl. hoses

CW - bolt-on adapter for system „Verachttert“



Type	Operating weight (t/lbs)
CW30 rigid	15 - 25 / 33,000 - 55,000
CW40 rigid	20 - 30 / 44,000 - 66,000
CW45 rigid	25 - 40 / 55,000 - 88,000
CW30S rigid**	15 - 25 / 33,000 - 55,000
CW40S rigid**	20 - 30 / 44,000 - 66,000
CW45S rigid**	25 - 40 / 55,000 - 88,000

**smaller S-version

Note: adapters for quick change systems for other manufacturers or other sizes on request

KINSHOFER Rotators

KINSHOFER is a manufacturer of rotators for excavators, truck loaders and logging operations. Many years of experience in designing rotators and hydraulic load handling equipment allow the production of very efficient and long lasting rotators, specially tailored to each operational requirement.

- **Wide range:** depending on the usage and carrier unit the load capacity – up to 15t – and the design – a rotator with flange or with shaft is possible to use.
- **"Gear-type"-design:** ensures very compact and powerful rotators. Precise control of approach and stop – even at a high oil temperature.
- **Endless rotation with integrated oil ducts** for one hydraulic circuit as standard; rotators with four oil passages are also available.
- **The pressure relief valve** allows the rotator independence from the hydraulic system of the excavator and prevents oversteering.
- **Safe admission of pressure, move and bending load** through big dimensioned roller bearings.
- **Minimization of abrasion:** by using high quality tempered steel, the outer surface is hardened through a nitrate-coating.



Product Range Rotators

Type	Load capacity	Upper connection	Torque	Bending moment max.	Hydraulic connections		Weight
	(kg/lbs)	(width x pin-Ø) (mm/in)			rotator	grab	
KM 04 F	4,500 / 9,900	84 x 30 / 3.3 x 1.1	850 / 626.9	3,000 / 2,212.5	M18x1,5	M18x1,5	26 / 57.2
KM 04 F140-30USE	4,500 / 9,900	84 x 30 / 3.3 x 1.1	1,000 / 737.5	8,500 / 6,268.8	M18x1,5	M18x1,5	31 / 68.2
KM 04 F140-30VE	4,500 / 9,900	84 x 30 / 3.3 x 1.1	850 / 626.9	3,000 / 2,212.5	M18x1,5	M18x1,5	26 / 57.2
KM 06 F140-40	6,000 / 13,200	84 x 40 / 3.3 x 1.1	1,000 / 737.5	8,500 / 6,268.8	G 1/2"	G 1/2"	34 / 74.8
KM 07 F180-40	7,000 / 15,400	84 x 40 / 3.3 x 1.1	2,000 / 1,475	15,000 / 11,062.5	G 1/2"	M 27x2	76 / 167.8
KM 10 F173-45E	10,000 / 22,000	100 x 45 / 3.9 x 1.8	2,000 / 1,475	12,000 / 8,850.0	G 1/2"	G 1/2"	65 / 143
KM 10 F180-50	10,000 / 22,000	110 x 50 / 4.3 x 2.0	2,000 / 1,475	15,000 / 11,062.5	G 1/2"	M 27x2	78 / 171.6

Product Range Rotators Without Head Plates

Type	Load capacity	Torque	Bending moment max.	Hydraulic connections		Weight
	(kg/lbs)	(Nm/ft.lbs)	(Nm/ft.lbs.)	rotator	grab	(kg/lbs)
KM 04 F140/150	4,500 / 9,900	850 / 626.9	3,000 / 2,212.5	M18x1,5	M18x1,5	34 / 74.8
KM 06 F 140/180	6,000 / 13,200	1,000 / 737.5	8,500 / 6,268.8	G 1/2"	G 1/2"	38 / 83.6
KM 06 F173/180	6,000 / 13,200	1,000 / 737.5	8,500 / 6,268.8	G 1/2"	G 1/2"	34 / 74.8
KM 07 F275/180	7,000 / 15,400	2,000 / 1,475	14,000 / 10,325	G 1/2"	G 3/4"	73 / 160.6
KM 10 F173/180	10,000 / 22,000	2,000 / 1,475	12,000 / 8,850	G 1/2"	M27x2	60 / 132.0
KM 10 F214/180	10,000 / 22,000	1,000 / 737.5	12,000 / 8,850	G 1/2"	G 1/2"	44 / 96.8
KM 10 F275/180V	10,000 / 22,000	2,000 / 1,475	14,000 / 10,325	G 1/2"	G 3/4"	73 / 160.6
KM 15 F340/220	15,000 / 33,000	3,000 / 2,212.5	25,000 / 18,437.5	G 1/2"	G 3/4"	160 / 352.0
KM 15 F273/273	15,000 / 33,000	2,000 / 1,475	50,000 / 36,875	G 1/2"	G 3/4"	71 / 156.2

Head Plates for Rotators

Type	for rotators	Load capacity	Eye width	Pin diameter
		(kg/lbs)	(mm/in)	(mm/in)
KM 692 4t-6t 30	KM 04 F140/150	4,500 / 9,900	84 / 3.3	30 / 1.2
KM 692 4t-6t 40	KM 06 F173/180	6,000 / 13,200	84 / 3.3	40 / 1.6
KM 692 7t-10t 40	KM 07 F275/180	7,000 / 15,400	84 / 3.3	40 / 1.6
KM 692 7t-10t 50	KM 10 F173/180 - KM 10 F275/180V	10,000 / 22,000	110 / 4.3	50 / 2.0
KM 692 7t-10t 60	KM 10 F173/180 - KM 10 F275/180V	10,000 / 22,000	125 / 4.9	60 / 2.4
KM 692 15t 70 273	KM 15 F273/273	15,000 / 33,000	180 / 7.1	70 / 2.8
KM 692 15t 70 340	KM 15 F340/220	15,000 / 33,000	180 / 7.1	70 / 2.8



KM 04 F

KM 04 F USE

KM 06 F140-40

KM 10 F214/180

KM 10 F275-50

KM 15 F273/273

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