



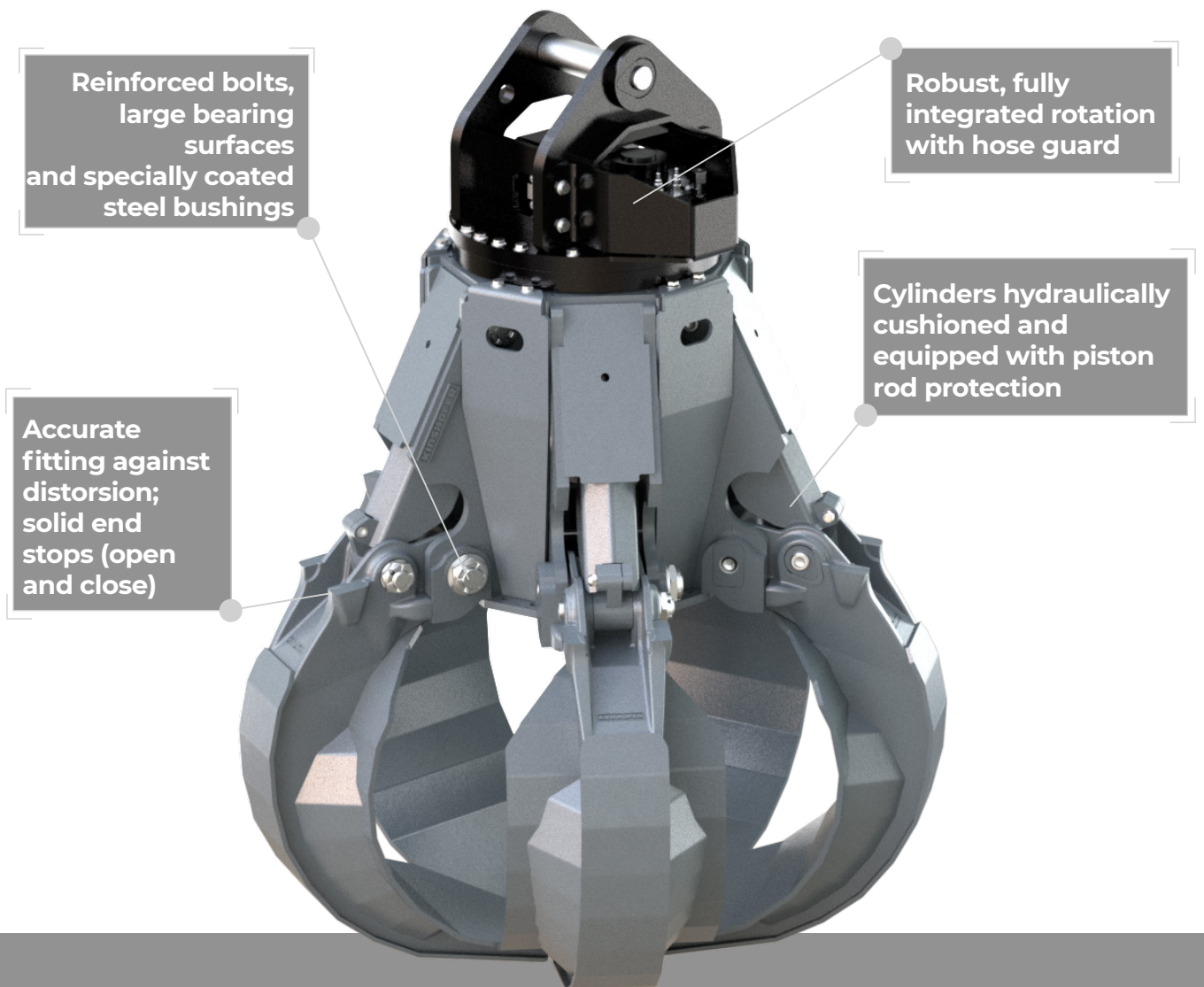
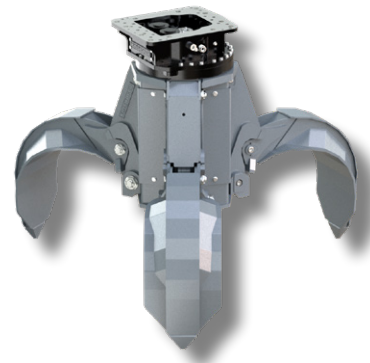
KINSHOFER
crane and excavator attachments

ORANGE PEEL GRABS P-SERIES



PRODUCT SAFETY • LONGEVITY • EFFICIENCY

- ▶ Reinforced tines in different designs with welded tine tips
- ▶ Also available with rigid mount
- ▶ Oil distributor with integrated non-return valve and hydraulic hoses protected in shell carrier
- ▶ Swivel and bevel sealed
- ▶ Feedthrough and motor accessible directly



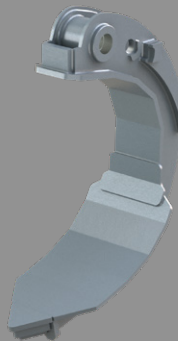
Meets the most important demands of the clients. The KINSHOFER P-Grapple with its two different types of 360° rotation was engineered to deliver an orange peel grapple for the handling of bulky materials with a maximum closing force and optimal weight to performance ratio in daily use. This robust tool can be used for a wide variety of jobs, e.g. scrap handling. Orange peel grapple with 4 or 5 tines and 450 litres volume for the handling of bulky scrap with excavators from 16t up to 22t operating weight, or as heavy duty version (VHD-Series) for excavators from 26t up to 120t operating weight and with up to 3000 litres volume.



Fully closing (F)



Half closing (H)



Wide tines (W)



Narrow tines (T)



Orange peel grab with 4 tines or 5 tines for the handling of bulky scrap with excavators from 16t to 22t 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 500 HB cutting edge material, exchangeable individually** as wear parts.
- ▷ Closing force 17 kN at an operating pressure of 35 MPa.



Orange Peel Grab P22V

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (mm)	Height C min. (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P22V-450-4-T	1370	1910	1545	1240	450	4	810	7000
P22V-450-5-F	1370	1910	1545	1240	450	5	1145	7000
P22V-450-5-H	1370	1910	1545	1240	450	5	1035	7000
P22V-450-5-W	1370	1910	1545	1240	450	5	970	7000
P22V-450-5-T	1370	1910	1545	1240	450	5	950	7000

Package consists of: orange peel grab, **KINSHOFER** rotator, head plate 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)	Torque (Nm)	Bending moment max. (Nm)
KM 10 F275-60	125 x 60	2000	14000

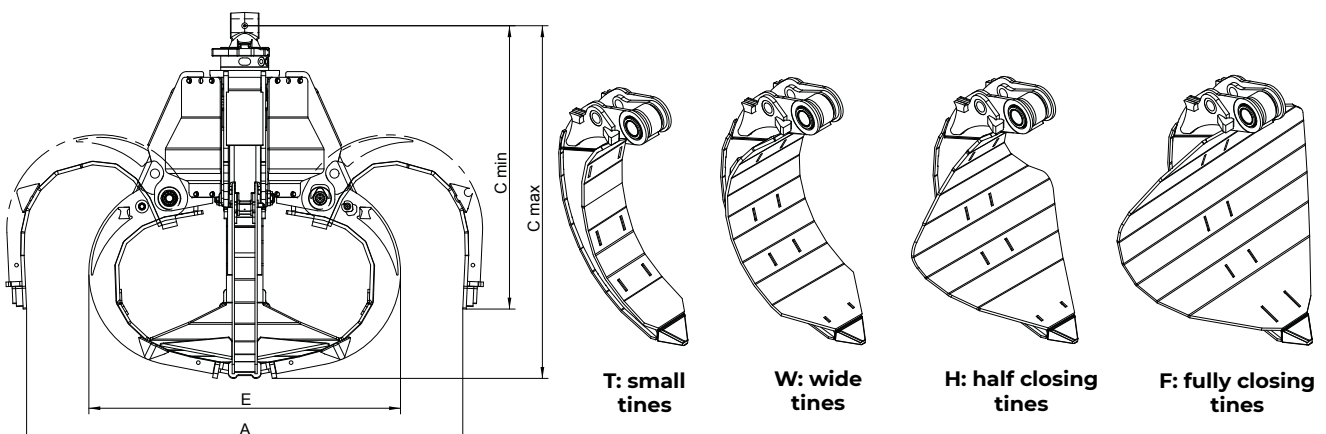
Accessories

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
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

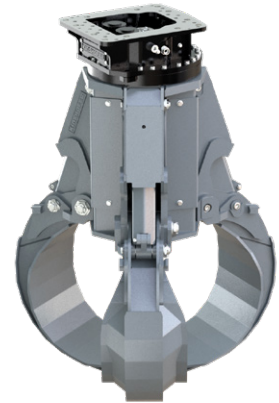
Operating pressure (open/close):	max. 35 MPa (350 bar)
Pump capacity (open/close):	50 - max. 150 l/min
Operating pressure (rotate):	max. 32 MPa (320 bar)
Pump capacity (rotate):	20 - max. 50 l/min

Technical drawing



Orange peel grab with 3 tines and 600 l or 3 or 4 tines and 800 l volume for the handling of bulky scrap with excavators from 18t to 25t 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 HB 400.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▷ **High closing force** 38 kN at an operating pressure of 35 MPa.
- ▷ **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.



Orange Peel Grab P25VR HD

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P25VR HD-600-3-W*	1420	2198	2116	600	3	1600	3000
P25VR HD-800-3-W*	1560	2198	2116	800	3	1490	3000
P25VR HD-800-4-W*	1550	2250	2120	800	4	1980	3000

* prices w/o adapter

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

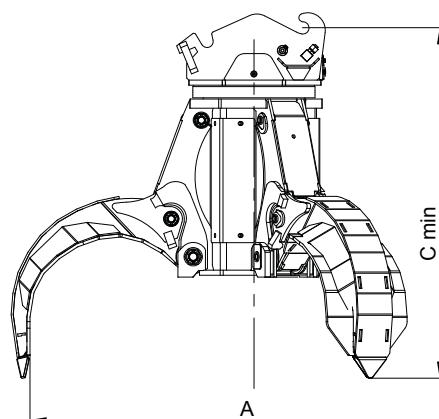
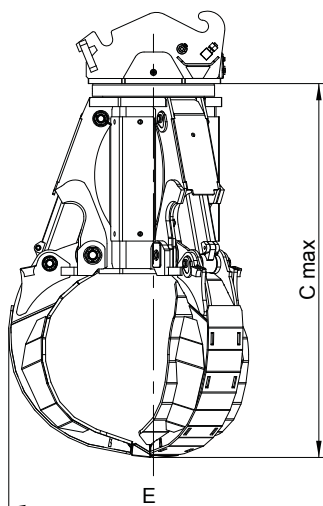
Accessories

Type	Description
KM 691 27t	adapter for specific solutions – up to 27t
KM 690 20t	adapter for rigid mounting – up to 20t
KM 690 27t	adapter for rigid mounting – up to 27t
OQ	bolt-on adapter for Oilquick OQ – 5t to 70t
KSW10 rigid	bolt-on adapter for system L-Lock KMS10L/KHS10L – up to 19t
KSW21/25 rigid	bolt-on adapter for system L-Lock KMS21/25L / KHS21/25L – up to 40t
	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)	max. 35 MPa (350 bar)
Pump capacity (open/close):	50 - max. 200 l/min	50 - max. 200 l/min
Hydraulic connection (open/close):	1"	1"
Operating pressure (rotate):	17 MPa (170 bar)	17 MPa (170 bar)
Pump capacity (rotate):	20 - max. 30 l/min	20 - max. 30 l/min
Hydraulic connection (rotate):	1/2"	1/2"

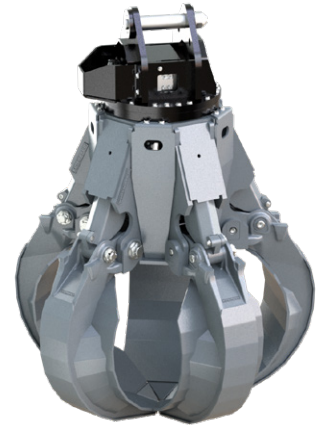
Technical drawing



P25VR HD-600-3-W

Orange peel grab with 4 or 5 tines and 600 l or 800 l volume for the handling of bulky scrap with excavators from 20t to 30t 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 HB 400.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▷ **High closing force** 27 kN at an operating pressure of 35 MPa.
- ▷ **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.



Orange Peel Grab P30VHD

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (closed) (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P30VHD-600-4-F	1520	2130	1980	600	4	1600	7000
P30VHD-600-4-H	1520	2130	1980	600	4	1520	7000
P30VHD-600-4-W	1520	2130	1980	600	4	1385	7000
P30VHD-600-4-T	1520	2130	1980	600	4	1360	7000
P30VHD-600-5-F	1520	2130	1980	600	5	1770	7000
P30VHD-600-5-H	1520	2130	1980	600	5	1670	7000
P30VHD-600-5-W	1520	2130	1980	600	5	1595	7000
P30VHD-600-5-T	1520	2130	1980	600	5	1570	7000
P30VHD-800-5-F	1525	2290	2065	800	5	1750	7000
P30VHD-800-5-H	1525	2290	2065	800	5	1690	7000
P30VHD-800-5-W	1525	2290	2065	800	5	1560	7000
P30VHD-800-5-T	1525	2290	2065	800	5	1540	7000

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

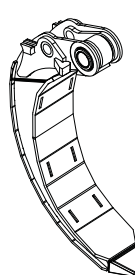
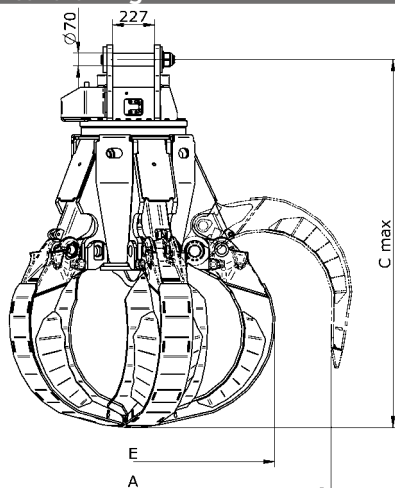
Accessories

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

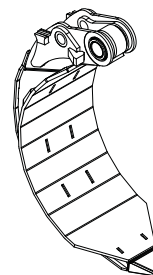
Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar)
Pump capacity (open/close):	120 - max. 200 l/min
Hydraulic connection (open/close):	1"
Operating pressure (rotate):	17 MPa (170 bar)
Pump capacity (rotate):	20 - max. 30 l/min
Hydraulic connection (rotate):	1/2"

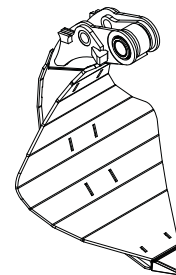
Technical drawing



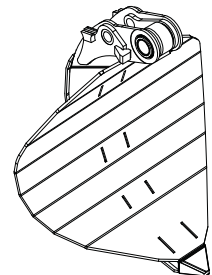
T: small tines



W: wide tines



H: half closing tines



F: fully closing tines

Orange peel grab with 3 tines for the handling of bulky scrap with excavators from 26t to 40t 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 HB 400.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▷ **High closing force** 38 kN at an operating pressure of 35 MPa.
- ▷ **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.



Orange Peel Grab P40VHD

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (closed) (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P40VHD-600-3-W*	1420	2200	2170	600	3	1390	6000
P40VHD-800-3-W*	1585	2200	2170	800	3	1430	6000
P40VHD-1000-3-W	1630	2440	2300	1000	3	1585	6000
P40VHD-1250-3-W	1830	2660	2415	1250	3	1660	6000
P40VHD-1500-3-W	1860	2835	2510	1500	3	2045	6000

* prices w/o adapter

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

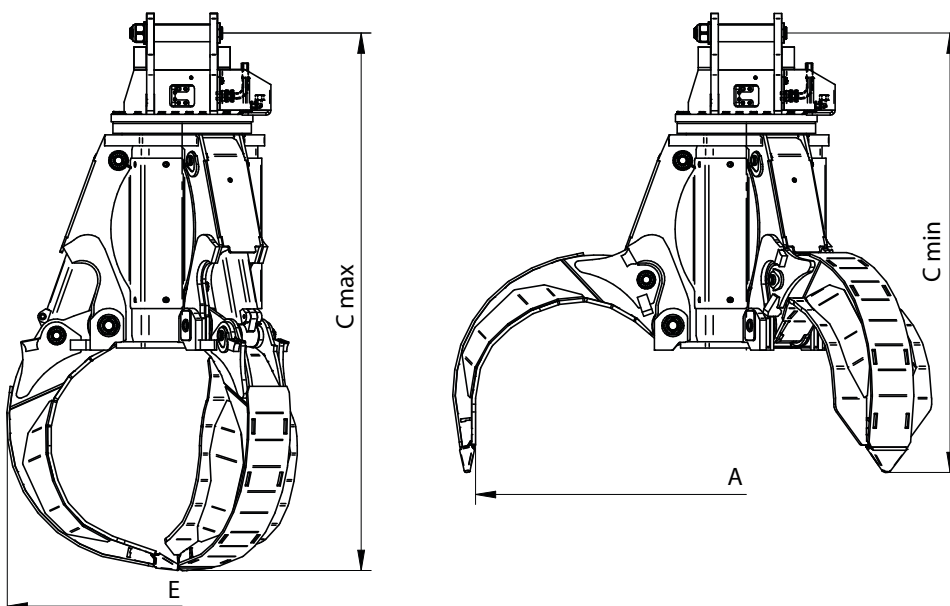
Accessories

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

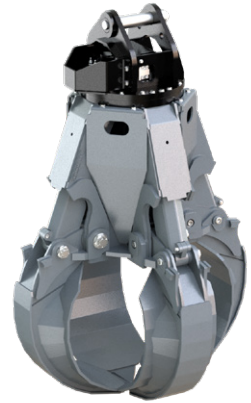
Operating pressure (open/close):	max. 35 MPa (350 bar)
Pump capacity (open/close):	120 - max. 200 l/min
Hydraulic connection (open/close):	1"
Operating pressure (rotate):	max. 17 MPa (170 bar)
Pump capacity (rotate):	20 - max. 30 l/min
Hydraulic connection (rotate):	1/2"

Technical drawing



Orange peel grab with 4 or 5 tines and 600 l or 800 l volume for the handling of bulky scrap with excavators with up to 40t 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 HB 400.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▷ **High closing force** 38 kN at an operating pressure of 35 MPa.
- ▷ **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.



Orange Peel Grab P40VHD

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (closed) (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P40VHD-600-5-H	1430	2200	2170	600	5	1830	10000
P40VHD-600-5-W	1430	2200	2170	600	5	1780	10000
P40VHD-600-5-T	1430	2200	2170	600	5	1620	10000
P40VHD-800-4-W	1570	2200	2170	800	4	1670	10000
P40VHD-800-4-T	1570	2200	2170	800	4	1530	10000
P40VHD-800-5-F	1570	2200	2170	800	5	2035	10000
P40VHD-800-5-H	1570	2200	2170	800	5	1950	10000
P40VHD-800-5-W	1570	2200	2170	800	5	1940	10000
P40VHD-800-5-T	1570	2200	2170	800	5	1760	10000

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

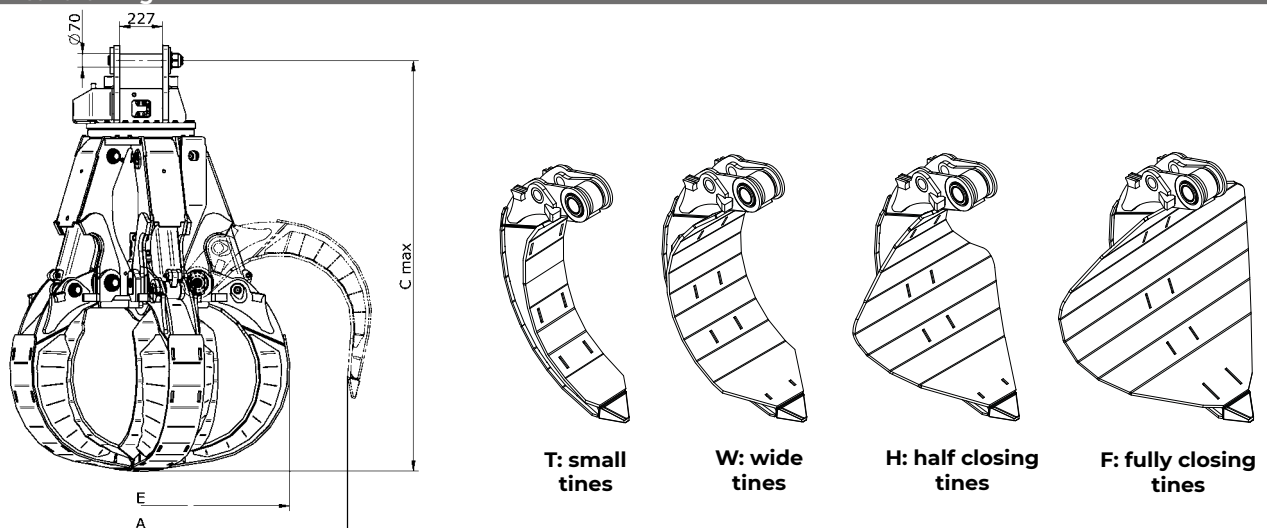
Accessories

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)
Pump capacity (open/close):	120 - max. 200 l/min
Hydraulic connection (open/close):	1"
Operating pressure (rotate):	max. 17 MPa (170 bar)
Pump capacity (rotate):	20 - max. 30 l/min
Hydraulic connection (rotate):	1/2"

Technical drawing

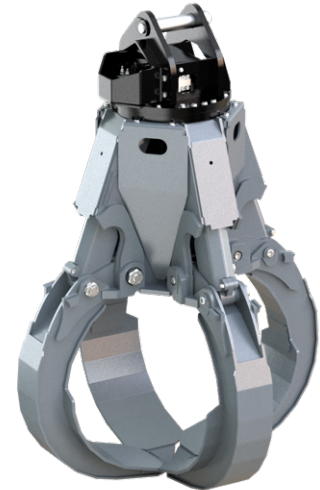


Orange Peel Grabs Heavy Duty up to 50t

P51VHD

Orange peel grab with 4 or 5 tines and 1000 l, 1250 l or 1500 l volume for the handling of bulky scrap with excavators from 36t to 50t operating weight - for heavy duty tasks.

- ▷ With 4 or 5 tines in different forms F, H, W, T.
- ▷ 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 HB 400.
- ▷ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▷ **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.



Orange Peel Grab P51VHD

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (closed) (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P51VHD-1000-4-W	1630	2440	2200	1000	4	1755	10000
P51VHD-1000-4-T	1630	2440	2200	1000	4	1715	10000
P51VHD-1000-5-F	1630	2440	2200	1000	5	2165	10000
P51VHD-1000-5-H	1630	2440	2200	1000	5	2110	10000
P51VHD-1000-5-W	1630	2440	2200	1000	5	2050	10000
P51VHD-1000-5-T	1630	2440	2200	1000	5	1830	10000
P51VHD-1250-5-H	1835	2665	2415	1250	5	2195	10000
P51VHD-1250-5-W	1835	2665	2415	1250	5	2185	10000
P51VHD-1500-4-H	1870	2840	2500	1500	4	2000	10000
P51VHD-1500-4-W	1870	2840	2500	1500	4	1830	10000
P51VHD-1500-5-F	1870	2840	2500	1500	5	2360	10000
P51VHD-1500-5-H	1870	2840	2500	1500	5	2305	10000
P51VHD-1500-5-W	1870	2840	2500	1500	5	2245	10000
P51VHD-1500-5-T	1870	2840	2500	1500	5	1995	10000

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

Accessories

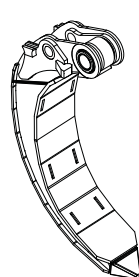
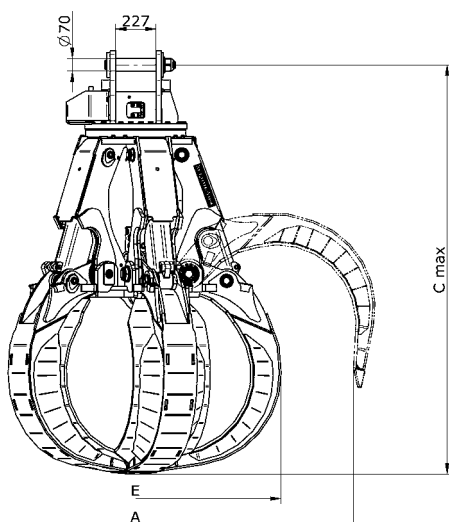
Type Description

KM 501 RD50 upper suspension without pendulum damper
adapters for quick change systems from other manufacturers or different sizes on request

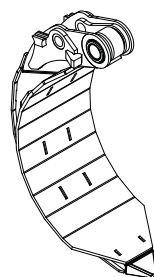
Requirements of carrier machine

Operating pressure (open/close): max. 35 MPa (350 bar)
Pump capacity (open/close): 120 - max. 200 l/min
Operating pressure (rotate): max. 17 MPa (170 bar)
Pump capacity (rotate): 20 - max. 30 l/min

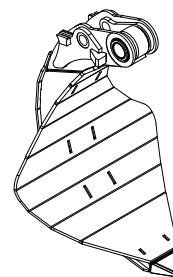
Technical drawing



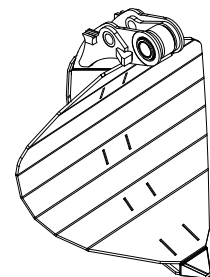
**T: small
tines**



**W: wide
tines**



**H: half closing
tines**



**F: fully closing
tines**

Orange peel grab with 4 or 5 tines and 1500 l, 2000 l or 3000 l volume for the handling of bulky scrap with excavators from 50t to 80t operating weight - for heavy duty tasks.

- ▶ With **3 different volumes and shell forms H, W and T.**
- ▶ 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 HB 400.
- ▶ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▶ **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.



Orange Peel Grab P80VHD Heavy Duty

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (closed) (mm)	Volume (liter)	Number of tines (pcs.)	Weight (kg)	Load capacity (kg)
P80VHD-1500-4-T	2010	2770	2770	1500	4	2500	10000
P80VHD-2000-5-H	2070	3180	2970	2000	5	3200	10000
P80VHD-2000-5-W	2070	3180	2970	2000	5	3000	10000
P80VHD-2000-5-T	2070	3180	2970	2000	5	2780	10000
P80VHD-2500-5-H	2200	3360	3065	2500	5	3310	10000
P80VHD-2500-5-W	2200	3360	3065	2500	5	3110	10000
P80VHD-2500-5-T	2200	3360	3065	2500	5	2890	10000
P80VHD-3000-5-H	2325	3540	3155	3000	5	3420	10000
P80VHD-3000-5-W	2325	3540	3155	3000	5	3220	10000

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

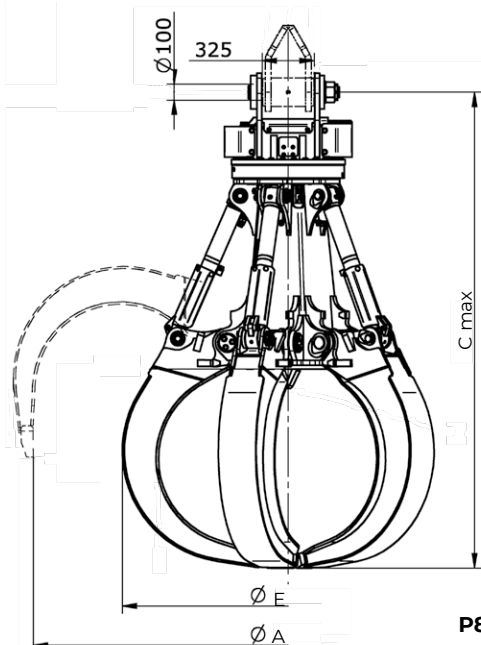
Accessories

Type	Description
KM 501 RD120	upper suspension without pendulum damper adapters for quick change systems from other manufacturers or different sizes on request

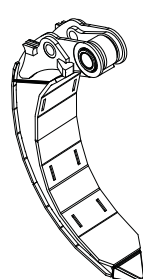
Requirements of carrier machine

Operating pressure (open/close):	max. 35 MPa (350 bar)
Pump capacity (open/close):	max. 350 l/min
Operating pressure (rotate):	max. 20 MPa (200 bar)
Pump capacity (rotate):	20 - max. 60 l/min

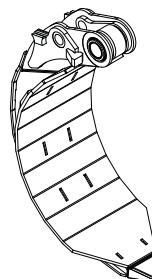
Technical drawing



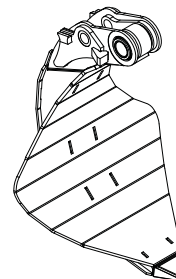
P80VHD-2000-5-T



T: small
tines



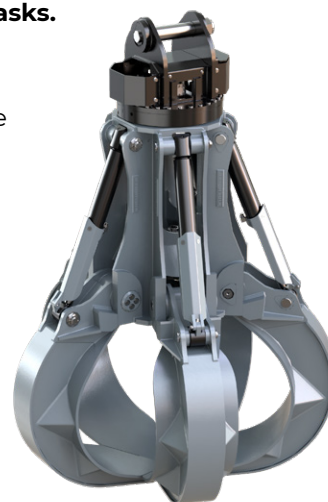
W: wide
tines



H: half closing
tines

Orange peel grab with 5 tines and 2000 l or 3000 l volume for the handling of bulky scrap with excavators from 80t to 120t operating weight - for heavy duty tasks.

- ▶ With **2 different volumes and 3 shell forms H, W and T**.
- ▶ 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 HB 400.
- ▶ **Weld-on tips** made of high resistant forged and tempered steel HB 500.
- ▶ **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.



Orange Peel Grab P120VHD Heavy Duty

Type	Width E (closed) (mm)	Opening A (mm)	Height C max. (mm)	Volume (liter)	Number of tines	Weight (kg)	Load capacity (kg)
P120VHD-2000-5-H	2280	3200	3180	2000	5	4570	10000
P120VHD-2000-5-W	2280	3200	3180	2000	5	4370	10000
P120VHD-2000-5-T	2280	3200	3180	2000	5	4220	10000
P120VHD-3000-5-H	2390	3910	3350	3000	5	4700	10000
P120VHD-3000-5-W	2390	3910	3350	3000	5	4500	10000
P120VHD-3000-5-T	2390	3910	3350	3000	5	4350	10000

Package consists of: orange peel grab, integrated rotation with sturdy slewing ring, head plate, hose guard and non-return valve

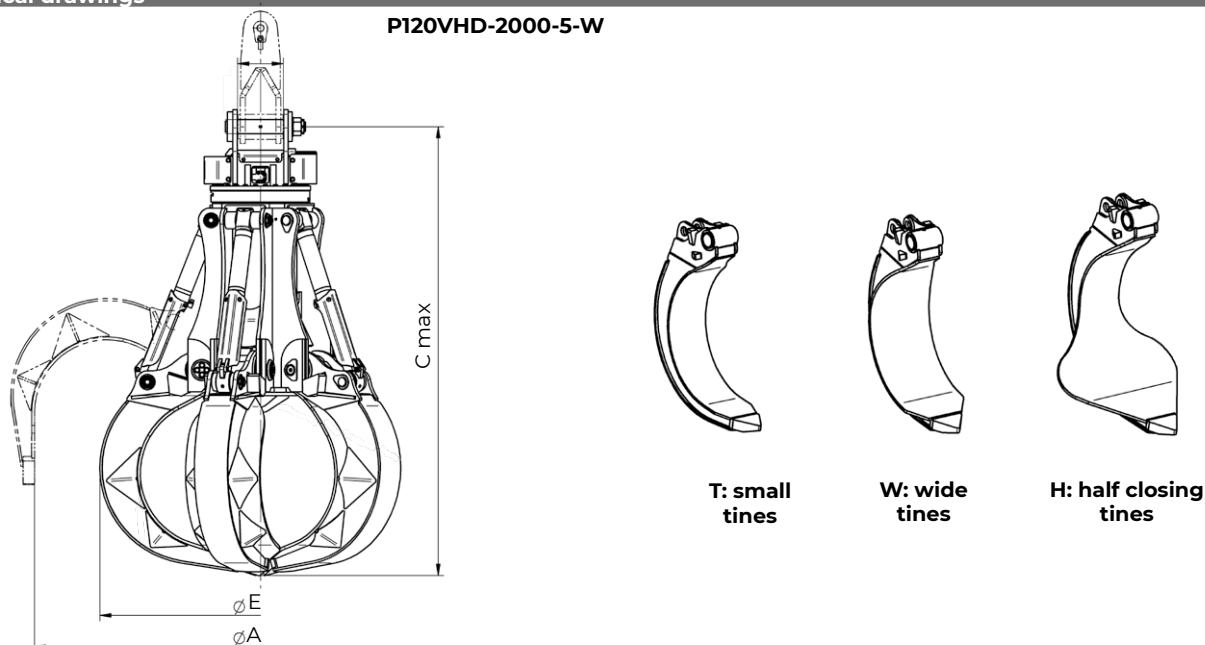
Accessories

Type	Description
KM 501 RD120	upper suspension without 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)
Pump capacity (open/close):	200 - 350 l/min
Operating pressure (rotate):	14 - 25 MPa (140 - 250 bar)
Pump capacity (rotate):	20 - 50 l/min

Technical drawings



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