

CRANE ATTACHMENTS

HYVA ATTACHMENTS FOR LOADER CRANE

hyva.com

Hay .



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Universal Fork

H 461-1500 c Universal Fork

Complete package * with rotator, short hoses and upper suspension







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Clamshell Buckets with HPXdrive Heavy Duty

H 605HPX-250 c Clamshell buckets with HPXdrive HD Complete package with teeth, rotator and upper suspension, 250 I volume

H 605HPX-350 c Clamshell buckets with HPXdrive HD Complete package with teeth, rotator and upper suspension, 350 I volume

H 605HPX-450 c Clamshell buckets with HPXdrive HD Complete package with teeth, rotator and upper suspension, 450 l volume





Clamshell Buckets with Cylinder

H 604-250 c Clamshell bucket for daily routine

Complete package * with teeth, rotator, short hoses and upper suspension, 62 250 l volume

H 604-350 c Clamshell bucket for daily routine

Complete package * with teeth, rotator, short hoses and upper suspension, 62 350 l volume

H 604-450 c Clamshell bucket for daily routine

Complete package * with teeth, rotator, short hoses and upper suspension, 62 450 l volume

Clamshell Buckets with Cylinder

H 605-250 c Clamshell bucket for heavy tasks

Complete package * with teeth, rotator, short hoses and upper suspension, 64 250 l volume

H 605-350 c Clamshell bucket for heavy tasks

Complete package * with teeth, rotator, short hoses and upper suspension, 64 350 l volume





Universal Clamshell Bucket

H 605U-400 c Universal clamshell bucket Complete package * with wear plates, rotator, short hoses, upper suspension and welded hooks, 400 l volume

66

High Volume Clamshell Buckets

H 602-500 c High volume clamshell bucket

Complete package * with rotator, short hoses and upper suspension, 500 l 68 volume

H 602-650 c High volume clamshell bucket

Complete package * with rotator, short hoses and upper suspension, 650 l 68 volume





High Volume Clamshell Buckets

H 622-300 c High volume clamshell bucket

Complete package * with rotator, short hoses and upper suspension, 300 l 69 volume

H 622-400 c High volume clamshell bucket

Complete package ^{*} with rotator, short hoses and upper suspension, 400 l olume

H 622-500 c High volume clamshell bucket

Complete package * with rotator, short hoses and upper suspension, 500 l 66 volume



Clamshell Buckets with Cylinders

H 607-215 c Clamshell bucket

Complete package * with teeth, rotator, short hoses and upper suspension, 72215 I volume

H 607-255 c Clamshell bucket

Complete package * with teeth, rotator, short hoses and upper suspension, 72 255 l volume



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The secure service of the container discharge units H 921 and H 920-12 can only be guaranteed by HYVA GmbH in case the ORI-GINAL HYVA FIXED AND HOIST DISCS are used on the container in the specified distance dimensions!

Barrier Lifter

HYVA

H 932MB-6/10 Barrier lifter

for concrete barriers and big blocks

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for augers type S5 with diameters of 150 - 1000 mm

HYVA-ROTATOR LINE



HYVA rotators and hydraulic load handling equipment guarantee high efficiency, long lasting rotators, specially tailored to meet your requirements. The gear-type design ensures a very compact and powerful rotator. The precision control and braking ability is especially appreciated by operators. A grapple does not rotate unexpectedly when digging, even under maximum load, and there is no need for stability compensation when handling longer lengths of timber... These are only some of the many working situations where operators appreciate the advantages of using HYVA-rotators.

HYVA-Rotators are the solution.

FEATURES OF THE HYVA-ROTATORS

The rotator head is made of spherically cast iron or forged tempered steel, depending on operational requirements

The pressure relief valve, integrated in the rotator head, allows the rotator independence from the hydraulic system of the crane or excavator – where an extra pressure relief valve does not need to be installed

A very high degree of sealing between the distributor and rotor unit results in minimal internal leakage. Powerful drive and braking moments are therefore possible, even at high oil temperature

Oil passages for a single hydraulic circuit are standard and generously dimensioned for high capacity flow. Connection with standard fittings is possible because flange and rotator shaft are a single unit, which also means there are no seams between flange and rotator shaft. Rotators with four oil passages are also available

Horizontal and vertical hydraulic connection of the attaching equipment is possible Upper and lower connections are available in a variety of dimensions and are standard. HYVA carries upper suspensions for all current makes and models of cranes. Rotator heads with pin connections are equipped with steel bushings

> All seals are specially designed for the application. All biodegradable synthetic oils are perfectly suitable

The rotor unit is made of high quality tempered steel and the outer surface is hardened through a nitrate-coating

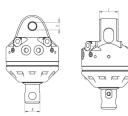
Generously dimensioned roller bearings guarantee absorption of rated pressure and tension loads and tilting moments

•,The forged, one-piece flange shaft is made of durable tempered steel



PRODUCT RANGE

Rotator with shaft up to 3000 kg load capacity (incl. fittings)





		Load capacity	Shaft Ø D	Upper connection (Width C x Pin-Ø A)	Torque	Moment of deflection max.	Self weight
Part Number	Туре	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
03141000	H 03 S*	3000	49.5	60 x 25	450	1750	24
	* only for pallet forks						
	Operating pressure:	max. 37	MPa (37	0 bar)			
	Oil flow rotate:	max. 40 l/min					
	Oil flow feedthrough:	max. 75	l/min				
	Hydraulic coupling in:	G 3/8"					
	Hydraulic coupling out:	G 1/4"					

Rotators wit	h shaft up to 4	4500 kg load ca	pacity (incl. fittings)						
				Load capacity	Shaft Ø B	Upper connection (Width C x Pin-Ø A)	Torque	Moment of deflection max.	Self weight
B		Part Number	Туре	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
		03141001	H 04 S59-30	4500	59	84 x 30	850	3000	26
		03141002	H 04 S	4500	62	84 x 30	850	3000	26
	\mathbf{D}	03141003	H 04 S63-30	4500	63	84 x 30	850	3000	26
		03141004	H 04 S68-30	4500	68	84 x 30	850	3000	26
		03141005	H 04 S68-30US*	4500	68	84 x 30	1000	4500	28
	X ALLAND	03141006	H 04 S69-30	4500	69	84 x 30	850	3000	26
A Star I Start	W (3)		* steel motor-head						
			Operating pressure:	max. 37	MPa (37) bar)			
			Oil flow rotate:	max. 40) I/min				
			Oil flow feedthrough:	max. 75	l/min				
			Hydraulic coupling:	G 1/2"					

Rotators with flange up to 4500 kg load capacity (incl. fittings) Upper connection (Width C x Pin-Ø A) Moment of deflection max. Load capacity 0 Self weight ۵۵ ш 0 Torque Shaft Ø U P A <u>____</u> Part Number Туре (kg) (mm) (mm) (Nm) (Nm) (kg) 03141008 H 04 F 4500 140 84 x 30 850 3000 26 03141009 H 04 F140-30US* 4500 1000 8500 140 84 x 30 31 03141010 H 04 F140-30V** 4500 140 84 x 30 850 3000 26 H 04 F140-30LM*** 4500 140 84 x 30 850 3000 26 * steel motor-head ** additional vertical connection *** low maintenance with plastic bushings and additional vertical connection Operating pressure: max. 37 MPa (370 bar) (LM-version max. 32 MPa (320 bar)) Oil flow rotate: max. 40 l/min Oil flow feedthrough: max. 75 l/min Hydraulic coupling: M18 x 1,5

Rotators with shaft up to 6000 kg load capacity (incl. fittings)					
	Shaft Ø B	Upper connection (WidthC x Pin-Ø A)	Torque	Moment of deflection max.	Self weight
Part Number Type (kg) (m	mm)	(mm)	(Nm)	(Nm)	(kg)
03141011 H 06 S68-40 6000 6	68	84 x 40	1000	4500	32
03141050 H 06 S69-40 6000 6	69	84 x 40	1000	4500	32
Operating pressure: max. 37 MP	Pa (370) bar)			
Oil flow rotate: max. 40 l/m	min				
Oil flow feedthrough: max. 75 l/m	nin				
Hydraulic coupling in: G 1/2"					
Hydraulic coupling out: M18 x 1,5					

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Rotator with flange up to 6000 kg load capacity (incl. fittings)

			Load capa- city	Shaft Ø B	Upper con- nection (Width C x Pin-Ø A)	Torque	Moment of deflection max.	Self weight
	Part Number	Туре	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
B B	03141012	H 06 F140-40	6000	140	84 x 40	1000	8500	34
		Operating pressure:	max. 37 MPa (370 bar)					
		Oil flow rotate:	max. 40 l/min					
		Oil flow feedthrough:	max. 75 l/min					
		Hydraulic coupling in:	G 1/2"					
		Hydraulic coupling out:	M18 x 1,5	5				

Rotators with flange and 4 oil ducts to operate 2 different functions (incl. fittings)



			Load capa- city	Shaft Ø B	Upper con- nection (Width C x Pin-Ø A)	Torque	Hydraulic couplings	Moment of deflection max.	Self weight
	Part Number	Туре	(kg)	(mm)	(mm)	(Nm)		(Nm)	(kg)
	03141013	H 04 F140-30-4	4500	140	84 x 30	1000	M 18 x 1,5	3000	40
	03141014	H 06 F173-35-4	6000	173	81 x 35	1000	G 1/2"	8500	45
C	03141015	H 10 F173-35-2/4	10000	173	81 x 35	2000	G 1/2" & G 3/4"	12000	72

	H 04 F / H 06 F	H 10 F
Operating pressure:	max. 37 MPa (370 bar)	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min	max. 50 l/min
Oil flow feedthrough:	max. 75 l/min	max. 75 l/min

Rotators with flange for logging (incl. hose guard and fittings)

		Load capa- city	Hole pat- tern of flange B	Upper con- nection (Width C x Pin-Ø A)	Torque	Moment of deflection max.	Self weight
Part Number	Туре	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
03141016	H 06 F173-35	6000	173	81 x 35	1000	8500	45
03141017	H 10 F173-35/1	10000	173	81 x 35	2000	12000	62
03141018	H 10 F173-35/2	10000	173	81 x 35	2000	12000	65
03141019	H 10 F173-45	10000	173	100 x 45	2000	12000	68
03141020	H 10 F173-52	10000	173	136 x 52,2	2000	12000	70

THE AND

	H 06 F	H 10 F
Operating pressure:	max. 37 MPa (370 bar)	max. 37 MPa (370 bar)
Oil flow rotate:	max. 40 l/min	max. 50 l/min
Oil flow feedthrough:	max. 75 l/min	max. 75 l/min
Hydraulic coupling:	G 1/2"	G 1/2"

ACCESSORIES FOR ROTATORS

H 501 – Upper suspension between rotator and crane FOR CLASSIC LINE AND EDGE LINE 9-11Tm + 13Tm K-BOOM

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



	Part N
	03142
	03142
No. of Contraction	03142
	03142

Part Number	Туре	Load capacity	Self weight
		(kg)	(approx. kg)
03142510	H 501 (3000)	up to 3000	5
03142511	H 501 (4500)	up to 4500	10
03142512	H 501 (6000)	up to 6000	15
03142513	H 501 (10,000)	up to 10000	25

H 511 – Upper suspension with pendulum damper between rotator and crane FOR CLASSIC LINE AND EDGE LINE 9-11Tm + 13Tm K-BOOM

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



Part Number	Туре	Load capacity	Self weight
		(kg)	(approx. kg)
03142540	H 511 (4500)	up to 4500	15
03142541	H 511 (6000)	up to 6000	20
03142542	H 511 (10,000)	up to 10000	30

H 501 - Upper suspension between rotator and crane EDGE LINE from 13Tm and above

An upper suspension is a cardan link between rotator and crane. It is available for all current makes and models of cranes. For EDGE Line, we have created a dedicated tool attachment that can be fitted on all models of the range. Item below can be ordered without specifying dimensions because already defined by EDGE Line tool attachment.

*IMPORTANT: Order this item only if is linked to EDGE tool attachments. If not ordered the tool attachments, please specify dimensions when ordering as standard procedure.



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	03
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Part Number	Туре	Load capacity	Self weight	
		(kg)	(approx. kg)	
03142543	H 501 (3000) EDGE	up to 3000	5	
03142544	H 501 (4500) EDGE	up to 4500	10	
03142545	H 501 (6000) EDGE	up to 6000	15	
03142546	H 501 (10,000) EDGE	up to 10000	25	

H 511 – Upper suspension with pendulum damper between rotator and crane EDGE LINE from 13Tm and above

Е

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

	Part Number T		Туре	Load capacity (kg)	Self weight (approx. kg)
	03142547		H 511 (4500) EDGE	up to 4500	15
	03142548		H 511 (6000) EDGE	up to 6000	20
	03142549		H 511 (10,000) EDGE	up to 10000	30
yva EDGE Line tool attachment diame					
	А	62 mm			
	С	40 mm			
	D	30 mm			
	F	60 mm			

60 mm



H 206 – Hose guard



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

Part Number	Туре	Load capacity	Self weight
		(kg)	(approx. kg)
3140005	H 206	hose guard for the rotato	r 3

H 502 – Reduction link between rotator and grapple

A reduction link adapts a shaft type rotator to an attachment with a standard hole pattern for a flange (H 502).

			Part Number	Туре	Load capacity	Self weight
1.2/2	-2				(kg)	(approx. kg)
	0		03142520	H 502 (3000)	up to 3000	2
0	0		03142522	H 502 (4500)	up to 4500	3
H 502	H 502-AD	H 502-FL	03145525	H 502 (6000)	up to 6000	4

H 460 – Accessories for Attaching Pallet Forks with shaft rotator								
H 460-03	Part Number	Туре	Description	Type of rotator	Weight			
					(approx. kg)			
	03142500	H 460 03 (H 03 S)	rigid suspension link with pin for all	H 03	8			
	03142501	H 460 03 (H 04 S)	HYVA shaft-type rotators	H 04	10			
	03142504	H 460 08 (H 03 S)	rigid hook for all	H 03	8			
	03142506	H 460 08 (H 04 S)	HYVA shaft rotators	H 04	9			
H 460-04	03142502	H 460 04 (H 04 S)	non-rotating swinging hook for all	H 04	12			
20	03142503	H 460 04 (H 06 S)	HYVA shaft rotators	H 06	15			
		H 460 10	non-rotating swinging hook for all HYVA flange rotators	H 10 F173	25			

H 203 – Connecting hoses / H 204 – Hydraulic quick change k	kit for hoses
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	Part Number	Туре	Description
	03140000	H 203 01	short connecting hoses between rotator and attachment with standard fittings M 18 x 1,5 (2 pieces)
	03140001	H 203 03	long connecting hoses between rotator and crane. Please specify dimensions (4 pieces)
	03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
H 203-01	03140003	H 204 02	fixed part of hydraulic quick coupling fo rotator (Ø 10 mm, 2 pieces)
H 204-02 H 204-01	03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pieces each) mounted with adapters to rotator

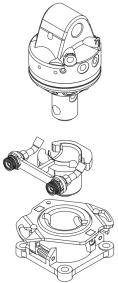
H 505 – Quick change system for shaft-type rotators up to 4000 kg load capacity

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

	Part Number	Туре	Description	Hole pattern of flange (mm)	Self weight (kg)
	03142530	H 505	complete, incl. hydraulic couplings (H 204 03)	4x Ø18 / 140	12
	03142531	H 505 01	upper element fitted to rotator incl. mobile and fixed parts		5
	03140002	H 204 01	mobile part of hydraulic quick coupling (2 pieces) for H 505 01		
	03142532	H 505 02	lower element mounted to the attachment	4x Ø18 / 140	7
	03142533	H 505 03	rigid suspension link with non-rotating hook to connect to the H 505 01		7
	03149235	H 505 05	distance ring between H 505 and H 461 universal fork		5
		H 505-01	H 505-02		

H 505 HD – Heavy duty quick change system for shaft-type rotators

H 505-01



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

H 505-02

	Part Number	Туре	Description	Hole pattern of flange (mm)	Self weight (kg)
	03142515	H 505 HD	complete, incl. hydraulic couplings (H 204 03)	4x Ø18 / 140	18
	03142516	H 505 01 HD	upper element HD fitted to rotator incl. mobile and fixed parts		7
	03140002	H 204 01	mobile part of hydraulic quick coupling (2 pieces) for H 505 01 HD		
¢	03142517	H 505 02 HD	lower element HD mounted onto attachment	4x Ø18 / 140	11
)	03142518	H 505 03 HD	rigid suspension link with non-rotating hook to connect to the H 505 01 HD		14
	03149235	H 505 05	distance ring between H 505 HD and H 461 universal fork		5





H 505-03 HD



H 506 HD SMARTFLOW

FULLY HYDRAULIC QUICK CHANGE DEVICE

No time-consuming connecting and disconnection of short hoses anymore.

No risky climbing up and down the truck load bed anymore.

No loss of time anymore due to manual works when changing attachments.

Short hose connection only between quick change lower part and attachment.

Fully hydraulic change of attachment within only a few seconds.

Different lower parts for mechanically or hydraulically operated attachments available!



The new fully hydraulic quick change device for loader crane attachments allows for a fast exchange of hydraulic or mechanical tools at the truck crane without any manual works at attachment or rotator.

Fast and easy! No manual reconnection of the hoses necessary anymore when changing the attachment!

Lower part with or without hydraulics available, depending on the use of a hydraulically or mechanically operated attachment.

Available for HYVA rotators H 04 S68-30US, H 06 S68-35 and H 06 S68-40.

Robust and compact construction – short hose connection to the hydraulic attachment are connected directly to the lower part of the quick change device.

Weather protection cap available to protect the quick change device lower part when not connected to the upper part.

Non-rotating load hook also available.

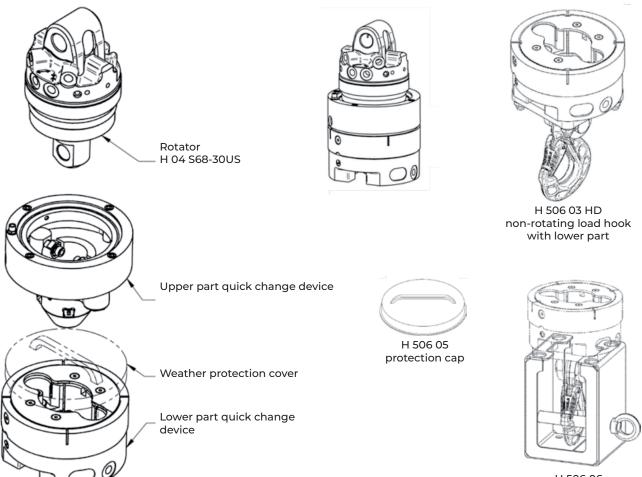
Matching all crane attachments with flange hole pattern 140mm.



Quick change device H 506 HD							
Part Number	Туре	Description	Hole pattern	Weight			
			(mm)	(kg)			
03149242	H 506 HD	complete incl. upper and lower part with hydraulic couplings	4x Ø17 / 140	45			
03149236	H 506 01 HD	upper part		19			
03149237	H 506 02 HD	lower part with couplings for hydraulic attachment	4x Ø17 / 140	26			
03149239	H 506 04 HD	lower part without couplings for mechanical attachment	4x Ø17 / 140	23			
03149238	H 506 03 HD	non-rotating load hook incl. mechanical lower part		32			
03149240	H 506 05	weather protection cap					
03149241	H 506 06	supporting rack for H 506 03 HD		6			

Technical data	
Operating pressure open-close (attachment):	37 MPa (370 bar)
Pump capacity open-close (attachment):	50 l/min
Operating pressure connect-disconnect:	15 MPa (150 bar)
Pump capacity connect-disconnect:	5 l/min

Technical drawings



H 506 06 supporting rack



BRICK STACK GRAPPLE – PARALLEL SQUEEZE

The technically unique H 332 brick stack grapple is a versatile tool for palletized and non-palletized materials.

Rigid or adjustable plunge depth of parallel opening and closing clamping arms - hydraulically operated.

Versatile tool with opening range of 400 mm to 1400 mm i.e. for handling of single concrete products like curbstones, or handling of brick packs.

Handling of heavy loads with reinforced version H 333.

Adjustable plunge depth of **H 332V** and **H 333V** can match the size of the stack-easy adaption with a mechanical latch.

Precise synchronisation of the arms as a result of two in series double acting hydraulic cylinders. **Safety** through internal pressure relief valve (independent from crane pressure) and non-return valve (safe clamping force at pressure drop).

Long life due to generously dimensioned bearings, integrated grease reservoir, automatic wear compensation of main bearing, spherical central bearing for the cylinders.

Easy to use with durable and replaceable rubber inserts – simple to operate between the stacks.

H 332V

Packages brick stack grapple H 332 c

Part Number	Туре	Plunge depth	Load capacity at plunge depth	Gripping A min./max.	Height (incl. rotator)	Self weight
		(mm)	min./max. (kg)	(mm)	(mm)	(kg)
03143013	H 332-1000 c	1000	2000	400 - 1400	1415	310
03143014	H 332V-1100 c	1100 – 1650	1900 / 1350	400 – 1400	1515 – 2065	355

Package consists of : brick stack grapple, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), compression rails H 381 29 (1000), pressure relief valve, non-return valve

Please note : compression rails will be H 381 39 for packages in the UK. Other packages with different opening ranges available in the UK: H 332-850c / H 332-1000c / H 332-1100c / H 332-1200 / H 332-1300c.

Brick stack grapples H 332 / H 333								
Part Number	Туре	Plunge depth	Load capacity at plunge depth	Gripping A min./max.	Height (incl. rotator)	Self weight		
		(mm)	min./max. (kg)	(mm)	(mm)	(kg)		
03143004	H 332-850	850	2200	400 - 1400	1065	245		
03143005	H 332-1000	1000	2000	400 - 1400	1215	255		
03143006	H 332-1300	1300	1600	400 - 1400	1515	275		
03143007	H 332V-850	850 – 1400	2200 / 1600	400 - 1400	1065 – 1615	290		
03143008	H 332V-1100	1100 – 1650	1900 / 1350	400 - 1400	1315 – 1865	340		
03143009	H 333-850	850	3000	400 - 1400	1090	400		
03143010	H 333-1000	1000	2500	400 - 1400	1240	415		
03143011	H 333V-1100	1100 – 1650	2300 / 1600	400 - 1400	1340 – 1890	490		

The price does not include the compression rails.

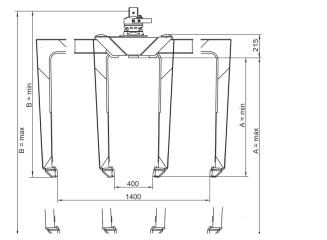
Wider opening ranges 400 – 1800 mm are available for H 332 and H 333

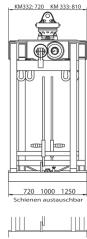
Please note:

the load capacity listed in the table depends on the load (the surface conditions, the size of individual stones, stack size and kind of bundling). The capacity listed does not apply to stacks of low-profile and unbundled items.

AccessoriesPart NumberTypeDescription03141008H 04 Frecommended HYVA rotator for H 332 / H 333Requirements of truck craneOperating preserver at oil flow:20 - 26 MPa (200 - 260 bar) at max. 75 l/min20 - 37 MPa (200 - 370 bar) at max. 40l/min

Technical drawings





ACCESSORIES FOR BRICK STACK GRAPPLES

Compression rails

compression rails					
H 381 29	Part Number	Туре	Description	Length	Weight
3				(mm)	(kg)
	03143511	H 381 29 (720)		720	17
	03143512	H 381 29 (1000)	compression rails with smooth rubber inserts (2 pieces)	1000	24
	03143513	H 381 29 (1250)		1250	28
H 381 39					
Charles and the state of the st	03143518	H 381 39 (720)	compression rails with two rubber	720	24
	03143519	H 381 39 (1000)	inserts, upper insert contoured, lower	1000	33
	3143520	H 381 39 (1250)	insert smooth (2 pieces each)	1250	42
H 381 32					
	03143515	H 381 32 (1000)	spring loaded rails with parallel-action	1000	62
	03143516	H 381 32 (1250)	teeth (2 pieces) - fitted in seconds by locking lever	1250	76
H 391 09					
all free	03143507	H 381 09 (720)		720	17
and the second s	03143508	H 381 09 (1000)	compression rails for adapter H 381 38 (2 pieces)	1000	23
	03143509	H 381 09 (1250)		1250	28



Part Number	Туре	Description	Weight			
			(kg)			
	H 381 38	adapter for clamping arms to take compression rails H 381 09	40			
Please note : additional lengths of compression rails are available on request.						

Others						
Non-standard opening range:	all grapples are available with opening ranges not listed.					
Non-standard plunge depth:	all grapples are available with plunge depth not listed.					



	Part Number	Туре	Description		Weight
-10					(kg)
	03143505	H 381 08 S	tilting device to reduce overall height of	for shaft rotators	12
	03143506	H 381 08 F	the equipment in transport	for flange rotators	18
-10					



	Part Number	Туре	Description	Weight
				(kg)
Sal 18	03143510	H 381 18	height reduction link to reduce the overall height of the equipment in transport - for flange rotators	15
3				

100	
E.	

Part Number	Туре	Description	Weight
			(kg)
03143502	H 381 05	height stop for quick adjustment of plunge depth	8
03149205	H 381 06	spring loaded guide rails for stabilizing the top layer of the stack	
03149206	H 381 07	spring loaded guide plates for lateral stabilizing of the stack	
03143514	H 381 31	adapter for concrete pipes with diameters from 800 to 1350 mm	60

Hyva Cranes Attachments

BRICK STACK GRAPPLE - SCISSOR GRAB

The robust brick stack grapple H 331 handles loads up to 2000 kg.

Fixed plunge depth with pivot clamping arms - hydraulically operated.

Versatile tool with opening range of 40 mm to 1500 mm i.e. for handling of single concrete products like curbstones, or handling of palletized brick packs. Synchronised function of clamping arms due to sturdy gear-toothed quadrants.

Safety through internal pressure relief valve (independent from crane pressure) and holding valve (safe clamping force at pressure drop).

Reduced overall height in comparison to the plunge depth due to lower rotator position. Compression rails with durable and replaceable rubber inserts.

Packages brick stack grapple H 331 c

Part Number	Туре	Plunge depth A	Load capacity	Gripping D	Height C	Self weight
		(mm)	(kg)	(min./max.) (mm)	(mm)	(kg)
03143000	H 331-1000 c	1000	2000	220 - 1420	1565	353
03143001	H 331-1100 c	1100	2000	160 - 1450	1665	360
03143002	H 331-1200 c	1200	1800	98 - 1475	1765	365
03143003	H 331-1300 c	1300	1600	40 - 1500	1865	372

Package consists of : brick stack grapple, HYVA rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), compression rails H 381 40 (1000), pressure relief valve, holding valve

Please note: the load capacity listed in the table depends on the load (the surface conditions, the size of individual stones, stack size and Type of banding). The grapple is not suitable for stacks of low-profile and unbundled items.

full plunge depth is only suitable up to opening range of 1100 mm (see technical drawings).

Accessories			
Part Number	Туре	Description	Self weight
			(kg)
03142540	H 511 (4500)	upper suspension with pendulum damper	15
03143522	H 381 40 (1000)	compression rails – 1000 mm (2 pieces)	40
03143523	H 381 40 (1250)	compression rails – 1250 mm (2 pieces)	52
03143576	H 685 06 hook set 4	lifting hooks with safety latches (4 pieces)	

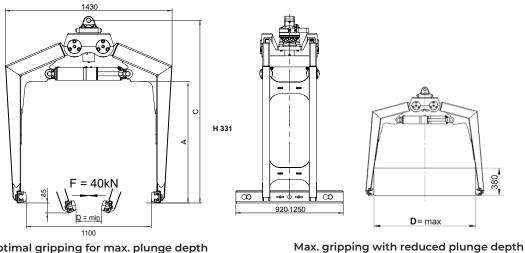
Requirements of truck crane

Operating pressure at oil flow:

20 - 26 MPa (200 - 260 bar) at max. 75 l/min

20 - 37 MPa (200 - 370 bar) at max. 40 l/min

Technical drawings



optimal gripping for max. plunge depth





PALLET FORK WITH TINES ADJUSTABLE BY SPINDLE-H 401

The efficient pallet fork H 401 with a spring loaded centre of gravity can easily be adapted to different loads with adjustable plunge depth and adjustable tine spread.

Efficient handling of many different kinds of loads like stone or brickstack, protection trellis or other general cargo is possible due to the easy adjustment with a stainless steel-plastic-sliding guide in the upper part.

Versatile height from 1050 mm to 1650 mm adjustable in three steps with a lock pin. **Versatile width** of tines from 475 mm to max. 835 mm adjustable with a smooth running, stainless spindle.

Easy to use due to the dimensions of the pallet fork. Since no part of the pallet fork is wider than a standard pallet, a second row can be loaded and loads close to walls can also be handled without problems.



Function RT								/
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine Dimension	Centre of gravity	Self weight ²⁾
		(kg)	(min./max.) (mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)
03142000	H 401-1500-500	1500	1050 – 1650	980	475 – 815	80 x 35	500	130
03142501	H 460 03 (H 04 S)	2000	1050 – 1650	980	495 - 835	100 x 35	500	150
03142002	H 401-2500-500	2500	1050 – 1650	980	475 – 815	90 x 40	500	210
03142003	H 401-3000-500	3000	1050 – 1650	980	485 - 825	100 x 45	500	225
03142004	H 401-1500-600	1500	1050 – 1650	1150	495 - 835	100 x 35	600	165
03142005	H 401-2000-600	2000	1050 – 1650	1150	475 – 815	90 x 40	600	205
03142006	H 401-2500-600	2500	1050 – 1650	1150	485 - 825	100 x 45	600	230

Package consists of : pallet fork, protection chain H 460 01, 2 chain elements for suspension

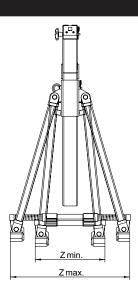
²⁾ weight without protection chain

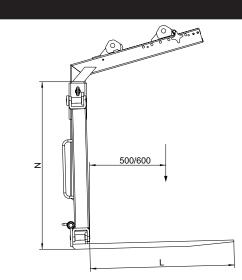
Please note: a protection trellis or net is mandatory for loose material (EN 13155). Spring loaded centre of gravity functions with a min. pack weight of approx. 250 to 500 kg.

Accessories

///////////////////////////////////////		
Part Number	Туре	Description
03141002	H 04 S	HYVA shaft rotator – up to 4500 kg load capacity
03142001	H 401-2000-500	rigid suspension link with pin for rotator H 04 S

Technical drawings







PALLET FORK WITH TINES ADJUSTABLE BY SPINDLE-H 401 H

The efficient hydraulic pallet fork H 401 H with hydraulically compensating centre of gravity can easily be adapted to different loads with adjustable plunge depth and adjustable tine spread and provides a more comfortable use.

Efficient handling of many different kinds of loads like stone or brickstack, protection trellis or other general cargo is possible due to the hydraulic shifting.

Precise positioning of the loads is no problem in combination with the HYVA rotator – continuous rotation, precise start and braking ability.

Versatile height from 1050 mm to 1650 mm adjustable in three steps with a lock pin. **Versatile width** of tines from 475 mm to max. 835 mm adjustable with a smooth running, stainless spindle.

Easy to use due to the dimensions of the pallet fork. Since no part of the pallet fork is wider than a standard pallet, a second row can

Package pallet fork H 401 H-1500 c								
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight ¹⁾
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)
03142041	H 401H-1500 c	1500	1050 - 1650	980	475 – 815	80 x 35	500	200

Package consists of : pallet fork, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), protection chain H 460 01

Pallet fork H 401H								
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight ¹⁾
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)
03142007	H 401H-1500-500	1500	1050 – 1650	980	475 – 815	80 x 35	500	150
03142008	H 401H-2000-500	2000	1050 – 1650	980	495 - 835	100 x 35	500	175
03142009	H 401H-2500-500	2500	1050 – 1650	980	475 – 815	90 x 40	500	230
03142010	H 401H-1500-600	1500	1050 – 1650	1150	495 - 835	100 x 35	600	180
03142501	H 460 03 (H 04 S)	2000	1050 – 1650	1150	475 – 815	90 x 40	600	230
03142012	H 401H-2500-600	2500	1050 – 1650	1150	485 - 825	100 x 45	600	250

Package consists of : pallet fork, protection chain H 460 01

¹⁾ weight without rotator and protection chain

Please note: a protection trellis or net is mandatory for loose material (EN 13155)

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 401 H
03141002	H 04 S	HYVA shaft rotator – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotators
03142522	H 502 (4500)	reduction link between rotator and grapple
03142011	H 401 H-2000-600	rigid suspension link with pin for rotator H 04 S

Requirements of truck crane

Operating pressure at oil flow:

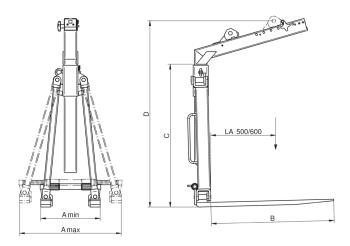
max. 20 MPa (200 bar) at 20 - max. 40 l/min

Mind the pressure!





Technical drawings



TELESCOPIC FORK WITH TINES ADJUSTABLE BY SPINDLE-H 401T

The telescopic pallet fork H 401T with spring loaded centre of gravity is based on the regular H 401, but additionally features the possibility to extend to a height of up to 2500 mm.

Efficient handling of overheight loads such as insulating material – thanks to the adjustable height of up to 2500 mm and the easy adjustment with a stainless steel-plastic-sliding guide in the upper part.

Versatile height from 1200 mm to 2500 mm adjustable in steps with a lock pin.

Versatile width of tines from 475 mm to max. 835 mm adjustable with a smooth running, stainless spindle.

Easy to use due to the dimensions of the pallet fork. Since no part of the pallet fork is wider than a standard pallet, a second row can be loaded. As no part of the pallet fork is wider than the tines, loads close to walls can be handled without problems.

Pallet fork H 401H											
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight ¹⁾			
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)			
03149213	H 401T-1500-500	1500	1200 – 2500	980	475 - 815	80 x 35		145			
03149215	H 401T-2000-500	2000	1200 – 2500	980	495 - 835	100 x 35	500	165			
03149217	H 401T-2500-500	2500	1200 – 2500	980	475 - 815	90 x 40	500	230			
03149219	H 401T-3000-500	3000	1200 – 2500	980	485 - 825	100 x 45	500	245			
03149214	H 401T-1500-600	1500	1200 – 2500	1150	495 – 835	100 x 35	600	180			
03149216	H 401T-2000-600	2000	1200 – 2500	1150	475 - 815	90 x 40	600	225			
03149218	H 401T-2500-600	2500	1200 - 2500	1150	485 - 825	100 x 45	600	250			

Package consists of : telescopic pallet fork, protection chain H 460 01, 2 chain elements for suspension

¹⁾ weight without rotator and protection chain

Please note : protection trellis or net is mandatory for loose material (EN 13155). Automatic compensation of centre of gravity functions with a min. pack weight of approx. 250 to 500 kg.

	Accessories	
Part Number	Туре	Description
03141002	H 04 S	HYVA shaft rotator – up to 4500 kg load capacity
03142501	H 460 03 (H 04 S)	rigid suspension link with pin for rotator H 04 S

Technical drawings





TELESCOPIC FORK WITH SPINDLE ADJUSTMENT-H 401HT

The telescopic pallet fork H 401 HT with hydraulically compensating centre of gravity is based on the regular H 401 H, but additionally features the possibility to extend to a height of up to 2500 mm and provides a more comfortable use than the mechanical version.

Efficient handling of overheight loads such as insulating material – thanks to the adjustable height of up to 2500 mm and the hydraulic shifting (H 401HT).

Precise positioning of the loads is no problem in combination with the HYVA rotator – continuous rotation, precise start and braking ability.

Versatile height from 1200 mm to 2500 mm adjustable in steps with a lock pin.

Versatile width of tines from 475 mm to max. 835 mm adjustable with a smooth running, stainless spindle.

Easy to use due to the dimensions of the pallet fork. Since no part of the pallet fork is wider than a standard pallet, a second row can be loaded. As no part of the pallet fork is wider than the tines, loads close to walls can be handled without problems.



Pallet fork H 401H

Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread	Tine dimensions	Centre of gravity	Self weight ¹⁾
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)
03149207	H 401HT-1500-500	1500	1200 – 2500	980	475 - 815	80 x 35	500	165
03149209	H 401HT-2000-500	2000	1200 – 2500	980	495 - 835	100 x 35	500	190
03149211	H 401HT-2500-500	2500	1200 - 2500	980	475 - 815	90 x 40	500	250
03149208	H 401HT-1500-600	1500	1200 – 2500	1150	495 - 835	100 x 35	600	195
03149210	H 401HT-2000-600	2000	1200 – 2500	1150	495 - 835	100 x 35	600	195
03149212	H 401HT-2500-600	2500	1200 – 2500	1150	485 - 825	100 x 45	600	250

Package consists of : telescopic pallet fork, protection chain H 460 01

¹⁾ weight without rotator and protection chain

Please note : protection trellis or net is mandatory for loose material (EN 13155)

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 401 HT
03141002	H 04 S	HYVA shaft rotator – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotators
03142522	H 502 (4500)	reduction link between rotator and grapple
03142501	H 460 03 (H 04 S)	rigid suspension link with pin for rotator H 04 S
03149227	H 460 (1100x1100)	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
03149228	H 460 (1300x1300)	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm

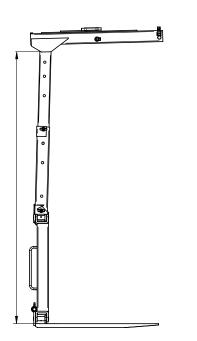
Requirements of truck crane

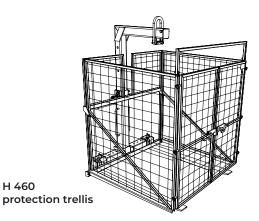
Operating pressure at oil flow:

max. 20 MPa (200 bar) at 20 - max. 40 l/min

 \bigwedge Mind the pressure!

Technical drawings





The protection trellis is used to secure loose loads handled with pallet forks H 415 and H 414 – e.g. brick packages, loose construction materials. When handling loose material, a protection trellis or net to secure the load, is obligatory (EN 13155). The maximum capacity is 2000 kg. The protection trellis can be monted within a few minutes and is thus suitable for each construction site without any problems.

H 460



PALLET FORK WITH TINES ADJUSTABLE BY LOCK PIN-H 415

The robust pallet fork H 415 with spring loaded centre of gravity compensation can easily be adapted to different loads with adjustable plunge depth and adjustable tine spread.

Efficient handling of many different kinds of loads in an economic, one-man operation is possible due to the automatic shifting of the H 415 to a preset position. Compression springs return slide to initial position.

Throat height adjustable in steps from 1050 mm to 1650 mm with a lock pin. Tine spread adjustable in steps from 325 mm to max. 975 mm with a lock pin.

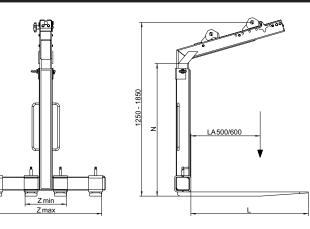
Pallet fork H 415											
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight			
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)			
03142022	H 415-1500-500	1500	1050 – 1650	980	325 – 920	80 x 35	500	135			
03142023	H 415-2000-500	2000	1050 – 1650	980	345 - 940	100 x 35	500	155			
03142024	H 415-2500-500	2500	1050 – 1650	980	355 – 945	90 x 40	500	180			
03142025	H 415-3000-500	3000	1050 – 1650	980	385 – 975	100 x 45	500	215			
03142026	H 415-1500-600	1500	1050 – 1650	1150	345 - 940	100 x 35	600	170			
03142027	H 415-2000-600	2000	1050 – 1650	1150	355 – 945	90 x 40	600	200			
03142028	H 415-2500-600	2500	1050 – 1650	1150	385 – 975	100 x 45	600	225			
03142029	H 415-3000-600	3000	1050 – 1650	1150	385 – 975	100 x 45	600	225			

Package consists of : pallet fork, protection chain H 460 01, 2 chain elements for suspension

Please note : protection trellis or net is mandatory for loose material (EN 13155). Automatic compensation of centre of gravity functions with a min. pack weight of approx. 250 to 500 kg.

Accessories		
Part Number	Туре	Description
03149227	H 460 (1100x1100)	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
03149228	H 460 (1300x1300)	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm
03141002	H 04 S	HYVA shaft rotator – up to 4500 kg load capacity
03142501	H 460 03 (H 04 S)	rigid suspension link with pin for rotator H 04 S

Technical drawings



H 460 protection trellis



The protection trellis can be mounted within a few minutes and is thus suitable for each construction site without any problems.



PALLET FORK WITH TINES ADJUSTABLE BY LOCK PIN-H 414

The robust pallet fork H 414 with manual centre of gravity compensation is an economic alternative.

Manual change of position of shifting collar by the operator.

Suspension Ring for HYVA flange or shaft rotator, or for a crane hook is included in the package. -1050

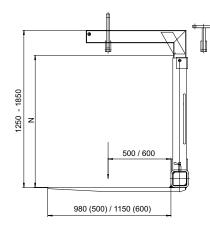
hroat height adjustable in steps from 1050 mm to 1650 mm with a lock pin.											
Pallet fork H 414											
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight			
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)			
03142013	H 414-1500-500	1500	1050 - 1650	980	325 – 920	80 x 35	500	125			
03142015	H 414-2000-500	2000	1050 - 1650	980	345 – 940	100 x 35	500	140			
03142016	H 414-2500-500	2500	1050 - 1650	980	355 – 945	90 x 40	500	165			
03142017	H 414-3000-500	3000	1050 - 1650	980	385 – 975	100 x 45	500	200			
03142018	H 414-1500-600	1500	1050 - 1650	1150	345 – 940	100 x 35	600	150			
03142019	H 414-2000-600	2000	1050 – 1650	1150	355 – 945	90 x 40	600	195			
03142020	H 414-2500-600	2500	1050 – 1650	1150	385 – 975	100 x 45	600	210			
03142021	H 414-3000-600	3000	1050 – 1650	1150	385 – 975	100 x 45	600	210			

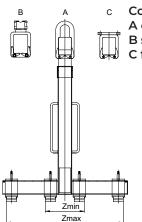
Package consists of : pallet fork, protection chain H 460 01

Please note : a protection trellis or net is mandatory for loose material (EN 13155)

	Accessories	
Part Number	Туре	Description
03149227	H 460 (1100x1100)	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
03149228	H 460 (1300x1300)	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm
03141008	H 04 F	HYVA flange rotator for precise positioning of the load – up to 4500 kg load capacity
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotators
03142522	H 502 (4500)	reduction link between rotator and grapple
03142502	H 460 04 (H 04 S)	non-rotating hook for rotator H 04 S

Technical drawings





Connection for: A crane hook B shaft rotator C flange rotator

H 460 protection trellis

The protection trellis is used to secure loose loads handled with pallet forks H 415 and H 414 - e.g. brick packages, loose construction materials. When handling loose material, a protection trellis or net to secure the load, is obligatory (EN



13155). The maximum capacity is 2000 kg. The protection trellis can be mounted within a few minutes and is thus suitable for each construction site without any problems.



TELESCOPIC PALLET FORK WITH LOCK PIN ADJUSTMENT-H 414T

The robust telescopic pallet fork H 414T with manual centre of gravity compensation is an economic alternative due to its versatility. Besides the properties of the regular H 414 pallet fork, the H 414T dditionally features the possibility to extend to a height of up to 2500 mm.

Manual change of position of shifting collar by the operator.

Suspension Ring for HYVA flange or shaft rotator, or for a crane hook is included in the package. **Throat height adjustable in steps** from 1100 mm to 2500 mm with a lock pin. **Tine spread adjustable in steps** from 345 mm to max. 975 mm with a lock pin.

Pallet fork H 415										
Part Number	Туре	Load capacity	Throat height N	Tine length L	Tine spread Z	Tine dimensions	Centre of gravity	Self weight ¹⁾		
		(kg)	(mm)	(mm)	(min./max.) (mm)	(width x height) (mm)	(mm)	(kg)		
03149220	H 414T-1500-500	1500	1100 – 2500	980	345 - 935	80 x 35	500	140		
03149222	H 414T-2000-500	2000	1100 – 2500	980	365 – 950	100 x 35	500	155		
03149224	H 414T-2500-500	2500	1100 – 2500	980	370 – 960	90 x 40	500	190		
03149226	H 414T-3000-500	3000	1100 – 2500	980	385 – 975	100 x 45	500	225		
03149221	H 414T-1500-600	1500	1100 – 2500	1150	365 – 950	100 x 35	600	165		
03149223	H 414T-2000-600	2000	1100 – 2500	1150	370 – 960	90 x 40	600	220		
03149225	H 414T-2500-600	2500	1100 – 2500	1150	385 – 975	100 x 45	600	235		

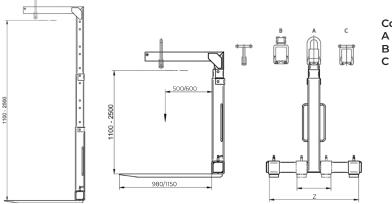
Package consists of : telescopic pallet fork, protection chain H 460 01

* weight w/o rotator w/suspension ring for crane hook

Please note : a protection trellis or net is mandatory for loose material (EN 13155)

Accessories		
Part Number	Туре	Description
03149227	H 460 (1100x1100)	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
03149228	H 460 (1300x1300)	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm
03141008	H 04 F	HYVA flange rotator for precise positioning of the load – up to 4500 kg load capacity
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotators
03142522	H 502 (4500)	reduction link between rotator and grapple
03142502	H 460 04 (H 04 S)	grapple H 460 04 (H 04 S)

Technical drawings



Connection for: A crane hook B shaft rotator C flange rotator

UNIVERSAL EXTENSIONS FOR PALLET FORKS - KM 460

Thanks to the universal extensions for the pallet forks H 401 (H), H 414 and H 415, the throat height of each of these types can be extended by 750 mm or 1200 mm respectively.

Fast mounting due to easy positioning of the extension by lock pin between upper and lower part of the respective pallet fork.

Throat height adjustable in steps with a lock pin. The general throat height can be extended by the extension but also removed easily.

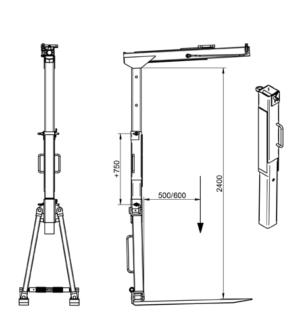
Adjustable tine spread and all other functions of the pallet forks remain untouched. **Ideally adjusted** to the respective load capacity/centre of gravity of the pallet fork. **Two lengths available**: 750 mm or 1200 mm.

Extensions for pallet forks H 460 Part Number for Pallet forks H 401 (H) / H 414 / H 415 load Extension for Weight (only Type capacities / centres of gravity throat heigth by extension) (kg/mm) (mm) (kg) 03149231 H 460-750-500 1500/500 / 1500/600/2000/500 750 26 03149232 H 460-750-600 2000/600/2500/500 / 2500/600/3000/500* 750 35 03149229 H 460-1200-500 1500/500 / 1500/600/2000/500 1200 35 03149230 H 460-1200-600 2000/600/2500/500 / 2500/600/3000/500* 1200 49

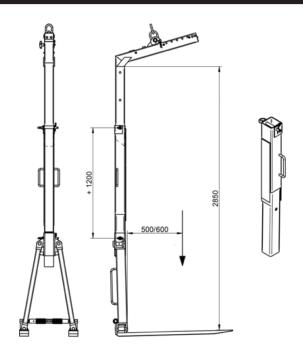
Package consists of : extension, lock pin

* 3000/600 on request

Technical drawings



Extension by 750 mm on H 401 H (w/o rotator)



Extension by 1200 mm on H 401





UNIVERSAL FORK-H 461

The universal fork H 461 for loader cranes handles wallboards and other lying building materials up to a size of 1250 height and 460 mm depth.

Different tine spreads: besides the standard tine spread of 640-1600mm further tine spreads are available (up to 1000, 1830 or 2130 mm), depending on the sheets that have to be handled. **Safe transport** of sheets of wallboard in the hinged lower section. The boards can be lifted and folded into a vertical position and clamped between the tines and frame, preventing them from sliding during handling.

Protection of the sheets during unloading through semi-tapered forged tines, equipped with rollers and pads. A standard centre slide gives an additional support point for your loads. **Security** is assured even in case of a drop in pressure due to the integrated counterbalance valve

that prevents the fork from opening unintentionally. The hydraulic cylinder is equippeD with a pressure relief valve to prevent overload.

Accurate positioning of the load is ensured by the tilt cylinder and the rotator.

The special version of the universal fork, the H 461A with a second suspension point on the main beam enables the unloading of lying boards through narrow openings in the wall.



Package universal fork H 461-1500 c									
Part Number Type Load capac (kg)	city Tine spread Z (min./max.) (mm)	Height of load max. (mm)	Depth of load max. (mm)	Weight (kg)					
03142042 H 461-1500 c 1500	640 – 1830	1250	460	410					

Package consists of : universal fork, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, counterbalance valve

Universal fork H 461										
Part Number	Туре	Load capacity (kg)	Tine spread Z (min./max.) (mm)	Height of load max. (mm)	Depth of load max. (mm)	Weight (kg)				
03142030	H 461-800	800	600 - 1000	1250	460	265				
03142031	H 461-1000	1000	640 - 1600	1250	460	340				
03142032	H 461-1500/1600		640 - 1600	1250	460	380				
03142033	H 461-1500/1830	1500	640 - 1830	1250	460	390				
03142034	H 461-1500/2130		640 - 2130	1250	460	395				
03142035	H 461-2000/1600		640 – 1600	1250	460	390				
03142036	H 461-2000/1830	2000	640 - 1830	1250	460	400				
03142037	H 461-2000/2130		640 – 2130	1250	460	405				
03142038	H 461-2500/1600		640 - 1600	1250	460	400				
03142039	H 461-2500/1830	2500	640 - 1830	1250	460	410				
03142040	H 461-2500/2130		640 - 2130	1250	460	415				

Please note : max. dimensions of the load are 1250 x 460 mm (height x depth). The max. width of the load is depending on the tine spread. H 461-800 is delivered with an integrated rack and an upper suspension for a shaft rotator

H 461A: special version of Universal Fork H 461-1500/1600 is delivered with 2nd suspension point on the main beam

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 461 (for load capacity over 1000 kg)
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03142530+ 03149235	H 505 + H 505 05	quick change system for H 04 S with distance ring (for load capacity over 1000 kg, not in combination with H 461-800)

03142515+ 03149235	H 505 HD + H 505 05	heavy duty quick change system for H 04 S68-30US with distance ring (for over 1000 kg, not in combination with H 461-800)
03142522	H 502 (4500)	reduction link between rotator and grapple
03142560	H 461 08	adjustable clamping device to secure single sheets of smaller packs (for load capacity over 1000 kg)
03142561	H 461 09	rack for safe and easy storage of folded universal fork (for load capacity over 1000 kg)

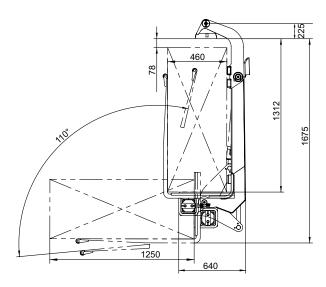
Requirements of truck crane

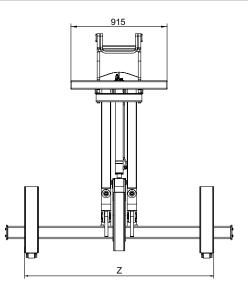
Operating pressure at oil flow:

20 - 26 MPa (200 – 260 bar) at max. 75 l/min

20 - 37 MPa (200 – 370 bar) at max. 40 l/min

Technical drawings







HPXdrive SETTING THE STANDARD FOR INNOVATIVE GRAB TECHNOLOGY FOR MORE THAN 15 YEARS!

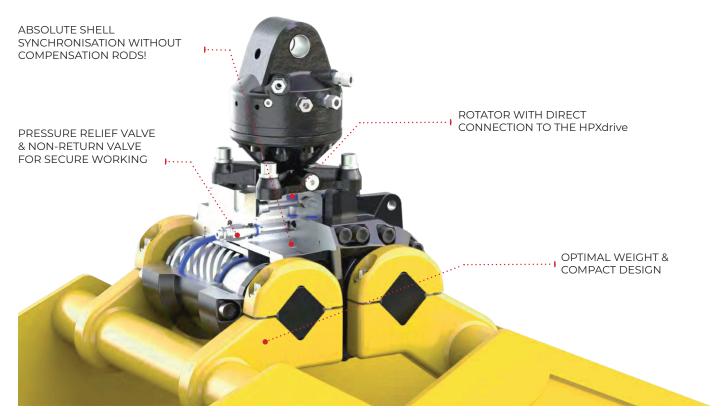
The hydraulic drive unit HPXdrive, characterized by its constant closing force, is optimally suited for daily operations in general construction, civil engineering and landscaping. In contrast to conventional hydraulic grabs, with the HPXdrive the torque is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. The force is delivered to two shafts, on which the shells are mounted. These advantages of the HPXdrive - technology provide an extended service life and higher efficiency. The compact design of the HPXdrive without open greasing points allows for operations in water protection areas, as no lubricant can be washed out.

VAST LIFESPAN EXTENSION COMPARED TO CONVENTIONAL CYLINDER GRABS AT EXTREMELY LOW COST OF OWNERSHIP.

CONSTANT CLOSING FORCE DURING THE COMPLETE CLOSING CYCLE. NO PROTRUDING COMPONENTS.

LOW MAINTENANCE.

NO GREASE POINTS! IDEAL FOR WORKS IN WATER PROTECTION AREAS AND UNDER WATER!



The bucket shells are bolted to the shafts and therefore easy to replace by another set. Different types of shells for diverse applications can be refitted onto the driving unit, e.g. clamshell bucket with or without open shells, multi purpose grab and rock and timber grab.

EASY SHELL EXCHANGE IN LESS THAN 10 MINUTES!



Shells mounted



Loosen 4 bolts on each side



Remove connecting pieces one after another



HPXdrive loosened



Lift HPXdrive for exchange of shells

HPXdrive Standard-DRIVE UNIT FOR DAILY ROUTINE JOBS

The *HPXdrive* Standard as an allround unit is perfect for the daily routine jobs. The advantages of the *HPXdrive*-technology like the constant high closing force and the compact design, guarantee a long life and reliability.

The standard rotator of the *HPXdrive* Standard is the HYVA rotator with flange H 04 Fl40-30V. In case a quick change to a non-rotating hook is necessary, the *HPXdrive* can be delivered with the HYVA shaft rotator H 04 S in combination with either the quick change system H 505 or the reduction link H 502.

Technical information HPX drive Standard:						
Torque (at 26 MPa):	12000 Nm					
Operating pressure at oil flow:	26 MPa (260 bar) at max. 75 l/min. 26 - 37 MPa (260 - 370 bar) at max. 40 l/min.					



HPXdrive Standard with flange rotator HPX-SD-04F-30V

Package consists of:	upper suspension H 501 (4500), rotator H 04 F140-30V, drive unit HPXdrive Standard with pressure relief valve and non- return valve
Self weight:	160 kg
Height:	480 mm

HPXdrive Standard / 502 with shaft rotator and reduction link HPX-SD-502							
Package consists of:	upper suspension H 501 (4500), rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, drive unit HPXdrive Standard with pressure relief valve and non-return valve						
Self weight:	165 kg						
Height:	535 mm						

HPXdrive Standard / 505 with shaft rotator and quick change system HPX-SD-505

Package consists of:	upper suspension H 501 (4500), rotator H 04 S, quick exchange system H 505, connecting hoses H 203 01, drive unit HPXdrive Standard with pressure relief valve and non-return valve
Self weight:	170 kg
Height:	575 mm
Note:	for heavy duty tasks we recommend the quick change system H 505 HD in combination with H 04 S68-30US









HPXdrive Standard-EXCHANGEABLE SHELLS

The bucket shells of the *HPXdrive Standard* are bolted to the shafts, and therefore it is very easy to replace them with another set of shells. Different types of shells for different applications can be refitted onto the driving unit, e.g. clamshell bucket, rock grapple, timber grapple, hay and forestry grapple and multi purpose clamshell. Other types of shells are available on request.

The interchangeable shells are delivered with an exchange aid that guarantees the *HPXdrive Standard* can be positioned with ease.

Shells for clamshell bucket – H 604HPX

H 604HPX-200S

H 604HPX-250S

H 604HPX-325S

H 604HPX-350S

H 604HPX-450S

Part Number Type

03144551

03144552

03144553

03144554

03144555



Self weight

(kg)

130

145

160

165

180

Number of

teeth/tines

4

4

6

6

6

Package consists of: exchangeable shells, bolt-on teeth (for H 604HPX, H 626HPX), exchange aid kit





Shells for small clamshell bucket – H 626HPX								
03144660	H 626HPX-95S	95	400	900	4	90		
03144661	H 626HPX-100S	100	450	900	4	95		
03144662	H 626HPX-150S	150	600	900	6	120		

Width

(mm)

400

500

600

650

800

Opening

1395

1395

1395

1395

1395

max. (mm)

Volume

(litre)

200

250

325

350

450



	Shells for clamshell bucket with open shells – H 604U HPX								
03144560	H 604UHPX-250S	250	570	1595	-	215			
03144561	H 604UHPX-300S	300	670	1595	-	235			
03144562	H 604UHPX-400S	400	820	1595	-	255			
03144563	H 604UHPX-500S	500	1020	1595	-	285			



Tines for rock grapple – H 613HPX						
03143530	H 613HPX-0,16S	0,16 m²	400	1225	-	75



Tines for timber grapple – H 632HPX							
03143032	H 632HPX-0,16S	0,16 m²	400	1225	-	75	



Tines for hay and forestry grapple – H 641HPX								
03143540	H 641HPX-0,2S	0,20 m2	670	1200	7	95		
03143541	H 641HPX-0,4S	0,40 m2	940	1695	7	160		

CLAMSHELL BUCKET WITH HPXdrive - H 604HPX

An allround clamshell bucket using the *HPXdrive* Standard for digging and handling, the H 604HPX is ideal for the daily routine work. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication:** The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility by different types of shells that can easily be refitted onto the unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (19 kN at 26 MPa operating pressure) over the entire opening and closing process.

Packages clamshell bucket H 604HPX with HYVA flange rotator

Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144051	Н 604НРХ-200 с	200	400	1020	1390	4	290	19	3000
03144052	Н 604НРХ-250 с	250	500	1020	1390	4	305	19	3000
03144053	Н 604НРХ-325 с	325	600	1020	1390	6	320	19	3000
03144054	Н 604НРХ-350 с	350	650	1020	1390	6	325	19	3000
03144055	Н 604НРХ-450 с	450	800	1020	1390	6	340	19	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F140-30V, upper suspension H 501 (4500), pressure relief valve, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

	Packages clamshell	bucket H	1 604HPX	/502 with H	YVA shaft	rotator ar	nd reduc	tion link	
Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144046	H 604HPX-200/502 c	200	400	1075	1390	4	295	19	3000
03144047	Н 604НРХ-250/502 с	250	500	1075	1390	4	310	19	3000
03144048	Н 604НРХ-325/502 с	325	600	1075	1390	6	325	19	3000
03144049	Н 604НРХ-350/502 с	350	650	1075	1390	6	330	19	3000
03144050	H 604HPX-450/502 c	450	800	1075	1390	6	345	19	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

	Accessories	
Part Number	Туре	Description
03143550	H 680 01	scraper
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
03143590	H 685 08 HPX-450	extension for excavating e.g. trenches (for canal and civil engineering) – 450 mm (30 kg)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

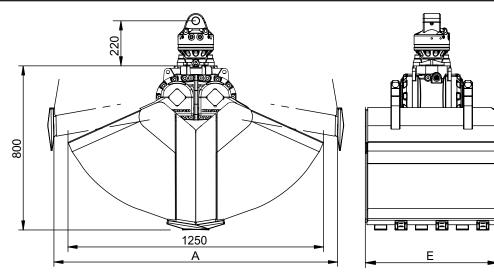




Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min



SMALL VOLUME CLAMSHELL BUCKET WITH HPXdrive - H 626HPX

The H 626HPX with the *HPXdrive Standard* for digging and handling, is due to its size ideal for small cranes. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit.

Profitability through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (31 kN at 26 MPa operating pressure) over the entire opening and closing process.

Packages clamshell bucket H 626HPX with HYVA flange rotator										
Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)	
03144160	Н 626НРХ-95 с	95	400	770	890	4	250	31	2000	
03144161	Н 626НРХ-100 с	100	450	770	890	4	255	31	2000	
03144162	Н 626НРХ-150 с	150	600	770	890	6	280	31	2000	

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F140-30V, upper suspension H 501 (4500), pressure relief valve, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

	Packages clamshell bucket H 626HPX	/502 with HYVA shaft rotator and reduction link
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Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144170	Н 626НРХ-95/502 с	95	400	825	890	4	255	31	2000
03144171	H 626HPX-100/502 c	100	450	825	890	4	260	31	2000
03144172	Н 626НРХ-150/502 с	150	600	825	890	6	285	31	2000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

Accessories		
Part Number	Туре	Description
03143551	H 680 02	scraper
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Requirements of truck crane

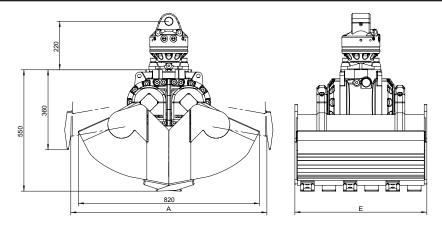
Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min







UNIVERSAL CLAMSHELL BUCKET WITH HPXdrive - H 604U HPX

The H 604U HPX is a clamshell bucket using the *HPXdrive* Standard for handling and easy digging tasks. The open shells enable the handling of bulky materials. Non-return valve, pressure relief valve, welded hooks and reversible wear plates are delivered on each grapple. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a non-rotating hook is favoured.

Constant closing force (17 kN at 26 MPa operating pressure) over the entire opening and closing process.

Packages clamshell bucket H 604U HPX with HYVA flange rotator

Part Number	Туре	Volume (litre)	Width E (mm)	Height	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144060	Н 604U НРХ-250 с	250	570	1100	1590	375	17	3000
03144061	H 604U HPX-300 c	300	670	1100	1590	395	17	3000
03144062	H 604U HPX-400 c	400	820	1100	1590	415	17	3000
03144063	H 604U HPX-500 c	500	1020	1100	1590	445	17	3000

Package consists of : clamshell bucket, rotator H 04 F140-30V, upper suspension H 501 (4500), wear plates H 685 07 set, welded hooks H 685 06 hook set 2, pressure relief valve, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Packages clamshell bucket H 604U HPX/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144064	H 604U HPX-250/502 c	250	570	1155	1590	380	17	3000
03144065	H 604U HPX-300/502 c	300	670	1155	1590	395	17	3000
03144066	H 604U HPX-400/502 c	400	820	1155	1590	420	17	3000
03144067	H 604U HPX-500/502 c	500	1020	1155	1590	450	17	3000

Package consists of : clamshell bucket, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), wear plates H 685 07, welded hooks H 685 06 hook set 2, pressure relief valve, non-return valve

	Accessories	
Part Number	Туре	Description
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143507	H 381 09 (720)	compression rails – length 720 mm (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
03143600	H 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator



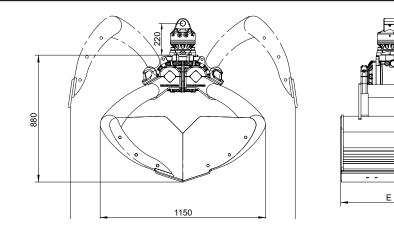


Accessories		
Part Number	Туре	Description
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143507	H 381 09 (720)	compression rails – length 720 mm (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
03143600	H 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min



ROCK GRAPPLE WITH HPXdrive - H 613HPX

The H 613HPX with *HPXdrive* Standard for positioning and handling natural stones, curbstones etc. is an ideal tool for landscaping architecture. A non-return valve secures constant pressure even in case of unexpected pressure drop. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*. **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured. **Constant closing force** (18 kN at 26 MPa operating pressure) over the entire opening and closing process.

De altre et a statut attende	ple H 632HPX with HYVA flange rotator
l Packade rock drab	DIE E 652EPX WITH HYVA TIANGE FOTATOR
r denage roek grup	

Part Number	Туре	Capacity (m²)	Width E (mm)	Height	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143021	Н 613НРХ-0.16/502 с	0,16	400	1000	1200	235	18	1000

Package consists of : rock grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), pressure relief valve, non-return valve

HPX-H 505 add: also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package rock g	Package rock grapple H 613HPX/502 with HYVA shaft rotator and reduction link							
Part Number	Туре	Capacity (m²)	Width E (mm)	Height	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143021	H 613HPX-0.16/502 c	0,16	400	1055	1200	240	18	1000

Package consists of : rock grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

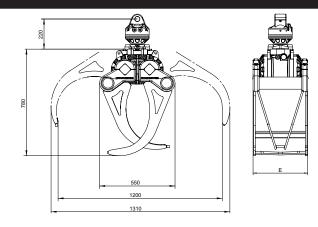
Accessories		
Part Number	Туре	Description
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Requirements of truck crane

Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min







TIMBER GRAPPLE WITH HPXdrive - H 632HPX

The H 632HPX with *HPXdrive* Standard for loading short logs, shrubbery, branches etc. A non-return valve secures constant pressure even in case of unexpected pressure drop. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders! **Longer life cycle** up to 50%! **Self-Iubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit.

Profitability through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPX drive*.

Rotator with shaft is available as an alternative, in case a quick change to a non-rotating hook is favoured. **Constant closing force** (18 kN at 26 MPa operating pressure) over the entire opening and closing process.

Package rock	grapple H 632HP	X with HYV	/A flange r	otator					
Part Number	Туре	Capacity (m²)	Width E (mm)	Height	Log-Ø min. (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143030	H 632HPX-0.16 c	0,16	400	1000	170	1220	235	18	1000

Package consists of : timber grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), pressure relief valve, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package timb	Package timber grapple H 632HPX/502 with HYVA shaft rotator and reduction link								
Part Number	Туре	Capacity (m²)	Width E (mm)	Height	Log-Ø min. (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143034	H 632 HPX-HD-0,16/502 c	0,16	400	1055	170	1220	240	18	1000

Package consists of : timber grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

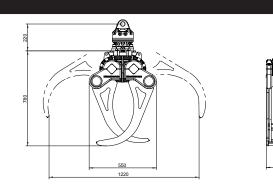
Accessories		
Part Number	Туре	Description
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

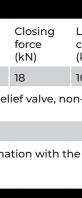
Requirements of truck crane

Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min





HAY AND FORESTRY GRAPPLE WITH HPXdrive - H 641HPX

The hay and forestry grapple H641HPX using the HPX drive Standard is ideal for handling hay, brushwood, compost or manure - often used for municipal operations and road work. The revolutionary HPXdrive technology guarantees a reliable and low maintenance attachment.

Reliability of the HPXdrive! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cvlinders!

Longer life cycle up to 50%! Self-lubrication: The drive unit runs in a permanent oil bath. The compact design makes the HPX drive resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit.

Profitability through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the HPX drive.

Rotator with shaft is available as an alternative, in case a quick change to a non-rotating hook is favoured. Constant closing force (18 kN/14 kN at 26 MPa operating pressure) over the entire opening and closing process.



Package hay and forestry grapple H 641HPX with HYVA flange rotator

Part Number	Туре	Capacity (m²)	Width E (mm)	Height (+ rotator) (mm)	Opening max.A (mm)	Number of tines	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143050	Н 641НРХ-0.2 с	0,20	670	950	1190	7	255	18	1000
03143051	H 641HPX-0.4 c	0,40	940	1190	1630	7	320	14	2000

Package consists of : hay and forestry grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), pressure relief valve, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package hay and forestry grapple H 641HPX/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Capacity (m²)	Width E (mm)	Height (+ rotator) (mm)	Opening max.A (mm)	Number of tines	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03143052	H 641HPX-0.2/502 c	0,20	670	1005	1200	7	260	18	1000
03143053	Н 641НРХ-0.4/502 с	0,40	940	1245	1695	7	325	14	2000

Package consists of : hay and forestry grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

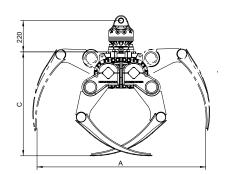
Accessories		
Part Number	Туре	Description
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

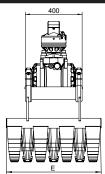
Requirements of truck crane

Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min





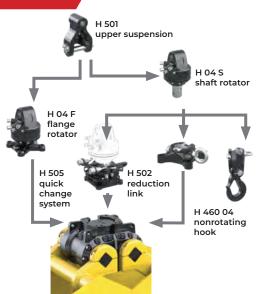




HPXdrive Heavy Duty-DRIVE UNIT FOR HEAVY TASKS

The *HPXdrive Heavy Duty* is a powerful version for difficult tasks. The advantages of the HPXdrivetechnology – the constant high closing force and the compact design – guarantee a long life and reliability.

The standard rotator of the *HPXdrive Heavy Duty* is the HYVA rotator with flange H 04 F140-30V. In case a quick change to a non-rotating hook is necessary, the *HPXdrive* can be delivered with the HYVA shaft rotator H 04 S in combination with the quick change system H 505 or the reduction link H 502.



Technical information HPX drive Heavy Duty:					
Torque (at 32 MPa):	21000 Nm				
Operating pressure at oil flow:	max. 32 MPa (320 bar) at 40 - max. 90 l/min Mind the pressure!				

HPXdrive Heavy Duty with flange rotator HPX-SD-04F-30V

Package consists of:	upper suspension H 501 (4500), rotator H 04 F140-30V, drive unit HPXdrive Standard with pressure relief valve and non- return valve
Self weight:	195 kg
Height:	510 mm

HPX drive Heavy Duty / 502 with shaft rotator and reduction link HPX-SD-502

Package consists of:	upper suspension H 501 (4500), rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, drive unit HPXdrive Standard with pressure relief valve and non-return valve
Self weight:	200 kg
Height:	565 mm

HPXdrive Heavy Duty / 505 with shaft rotator and guick change system HPX-SD-505



Package consists of:	upper suspension H 501 (4500), rotator H 04 S, quick exchange system H 505, connecting hoses H 203 01, drive unit HPXdrive Standard with pressure relief valve and non-return valve
Self weight:	205 kg
Height:	605 mm
Note:	for heavy duty tasks we recommend the quick change system H 505 HD in combination with H 04 S68-30US



HPXdrive Heavy Duty-EXCHANGEABLE SHELLS

Part Number

The bucket shells of the *HPXdrive Heavy Duty* are bolted to the shafts, and therefore it is very easy to replace them with another set of shells. Different types of shells for different applications can be refitted onto the driving unit,

e.g. clamshell bucket, rock grapple, timber grapple, hay and forestry grapple. Other types of shells are available on request.

The interchangeable shells are delivered with an exchange aid that guarantees the *HPXdrive Heavy Duty* can be positioned with ease.

Package consists of: exchangeable shells, bolt-on teeth (for H 605HPX), exchange aid kit

Туре

Shells for heavy duty clamshell bucket – H 605HPX

H 605HPX-200S

H 605HPX-250S

H 605HPX-350S

H 605HPX-450S

H 605HPX-550S

H 605HPX-Z-300S

H 605HPX-Z-370S

H 605HPX-Z-460S

Volume

(litre)

Shells for heavy duty clamshell bucket for Z-cranes – H 605HPX-Z

H 605HPX-Z-240S 240

Width

(mm)

Opening max.

(mm)



Number of

teeth/tines

-

_

_

Self weight

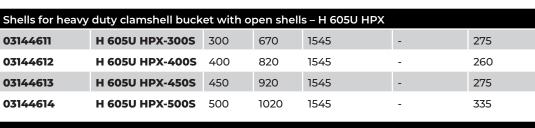
(kg)

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Shells for heavy duty clamshell bucket with open shells for Z-cranes – H 605U HPX-Z							
03144615	H 605U HPX-Z-400S	400	820	1545	-	275	
03144616	H 605U HPX-Z-450S	450	920	1545	-	285	
03144617	H 605U HPX-Z-500S	500	1020	1545	-	300	
03144618	H 605U HPX-Z-600S	600	1220	1545	-	335	



Tines for heavy duty rock grapple – H 613HPX-HD						
03143024	H 613HPX-HD-0,35S	0,16 m ²	400	1705	-	135



Tines for heavy duty timber grapple – H 632HPX-HD							
03143032	H 632HPX-HD-0,16S	0,16 m²	400	1290	-	90	

Tines for heavy duty hay and forestry grapple – H 641HPX-HD						
03143542	H 641HPX-HD-0,4S	0,40 m²	940	1720	7	195



HEAVY DUTY CLAMSHELL BUCKET WITH HPXdrive - H 605HPX

A powerful clamshell bucket with the *HPXdrive Heavy Duty* manages even difficult tasks thanks to its high closing force – ideal for digging and handling. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit.

Profitability through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the HPXdrive.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (30 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Packages clamshell bucket H 605HPX with HYVA flange rotator

. aona goo onan			-						
Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144081	Н 605НРХ-200 с	200	400	1035	1420	4	335	30	3000
03144082	Н 605НРХ-250 с	250	500	1035	1420	4	360	30	3000
03144083	Н 605НРХ-350 с	350	650	1035	1420	6	390	30	3000
03144084	Н 605НРХ-450 с	450	800	1035	1420	6	420	30	3000
03144085	Н 605НРХ-550 с	550	1000	1035	1420	8	455	30	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Packages clamshell bucket H 605HPX/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Volume (litre)	Width E (mm)	Height (w/rotator) (mm)	Opening A max. (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144090	H 605HPX-200/502 c	200	400	1090	1420	4	340	30	3000
03144091	Н 605НРХ-250/502 с	250	500	1090	1420	4	365	30	3000
03144092	H 605HPX-350/502 c	350	650	1090	1420	6	395	30	3000
03144093	Н 605НРХ-450/502 с	450	800	1090	1420	6	425	30	3000
03144094	H 605HPX-550/502 c	550	1000	1090	1420	8	460	30	3000

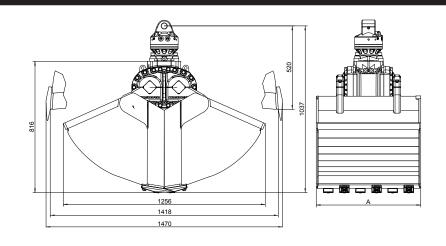
Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), pressure relief valve, non-return valve

Accessories		
Part Number	Туре	Description
03143550	H 680 01	scraper
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
03143590	H 685 08 HPX-450	extension for excavating e.g. trenches (for canal and civil engineering) – 450 mm (30 kg)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!





HD CLAMSHELL BUCKET W / HPXdrive for Z-cranes - H 605HPX-Z

The H 605 HPX-Z universal grapple with integrated flap rests flat and safe against the crane arm in its transport position. The special flap at the shell carrier allows to transport a large universal grapple, whereat the grapple does not protrude the carrier machine's width (2,55 m)* – without any loss in loading volume. The flap is secured automatically by a robust pressure piece with rubber bump.

Reliability of the *HPXdrive*. The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Profitability through low maintenance costs and longer life cycle.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Constant closing force (34 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Packages clamshell bucket H 605HPX-Z with HYVA flange rotator

Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03149243	Н 605НРХ-Z-240 с	240	500	1010	1420	370	34	3000
03149246	H 605HPX-Z-300 c	300	650	1010	1420	400	34	3000
03149249	Н 605НРХ-Z-370 с	370	800	1010	1420	430	34	3000
03149252	Н 605НРХ-Z-460 с	460	1000	1010	1420	465	34	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Packages clamshell bucket H 605HPX-Z/502 with HYVA shaft rotator and reduction link								
Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03149244	Н 605НРХ-Z-240/502 с	240	500	1065	1545	375	34	3000
03149247	Н 605НРХ-Z-300/502 с	300	650	1065	1545	405	34	3000
03149250	Н 605НРХ-Z-370/502 с	370	800	1065	1545	435	34	3000
03149253	Н 605НРХ-Z-460/502 с	460	1000	1065	1545	465	34	3000

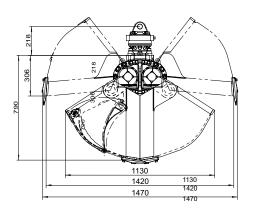
Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

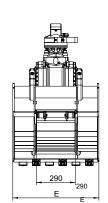
Accessories		
Part Number	Туре	Description
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

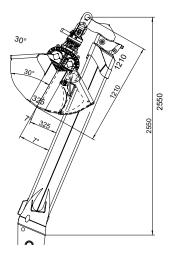
Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

 \bigwedge Mind the pressure!









HD UNIVERSAL BUCKET WITH HPXdrive - H 605U HPX

The H 605U HPX is a powerful clamshell bucket using the *HPXdrive Heavy Duty* for handling and easy digging tasks. The open shells enable the handling of bulky materials. Non-return valve, welded hooks and reversible wear plates are delivered on each grapple. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-Iubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (28 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



28

3000

Packages clamshell bucket H 605U HPX with HYVA flange rotator									
Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)	
03144111	H 605U HPX-300 c	300	670	1115	1545	430	28	3000	
03144112	H 605U HPX-400 c	400	820	1115	1545	455	28	3000	
03144113	Н 605U НРХ-450 с	450	920	1115	1545	470	28	3000	

Package consists of : clamshell bucket, rotator H 04 F140-30V, upper suspension H 501 (4500), wear plates H 685 07 set, welded hooks H 685 06 hook set 2, non-return valve

1115

1545

485

1020

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

500

H 605U HPX-500 c

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Packages clamshell bucket H 605U HPX/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144121	H 605U HPX-300/502 c	300	670	1170	1545	435	28	3000
03144122	H 605U HPX-400/502 c	400	820	1170	1545	460	28	3000
03144123	H 605U HPX-450/502 c	450	920	1170	1545	475	28	3000
03144124	H 605U HPX-500/502 c	500	1020	1170	1545	490	28	3000

Package consists of : clamshell bucket, rotator H 04 S, reduction link H 502 (4500), short connecting hoses, H 203 01, upper suspension H 501 (4500), wear plates H 685 07, welded hooks H 685 06 hook set 2, non-return valve

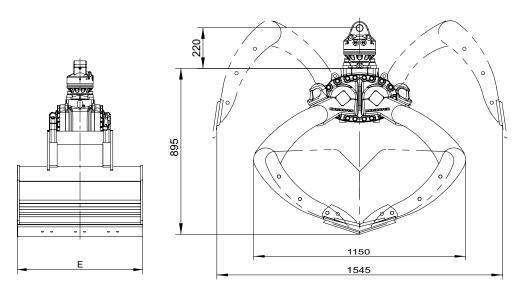
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Accessories		
Part Number	Туре	Description
03143560	H 685 05	adapters for compression rails (load capacity max. 250 kg, without compression rails)
03143507	H 381 09 (720)	compression rails – length 720 mm (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
03143600	H 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!





HD UNIVERSAL BUCKET W/ HPXdrive Z-cranes - H 605U HPX-Z

The H 605U HPX-Z universal grapple with integrated flap rests flat and safe against the crane arm in its transport position. The special flap at the shell carrier allows to transport a large universal grapple, whereat the grapple does not protrude the carrier machine's width (2,55 m)*, without any loss in loading volume. The flap is secured automatically by a robust pressure piece with rubber bump.

Reliability of the *HPXdrive*. The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-Iubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris. **Profitability** through low maintenance costs and longer life cycle.

Versatility by different types of shells that can easily be refitted onto the driving unit. **Constant closing force** (28 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes. **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston



Packages clamshell bucket H 605U HPX-Z with HYVA flange rotator

Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144619	H 605U HPX-Z-400 c	400	820	1145	1545	465	28	3000
03144620	H 605U HPX-Z-450 c	450	920	1145	1545	480	28	3000
03144621	H 605U HPX-Z-500 c	500	1020	1145	1545	495	28	3000
03144622	H 605U HPX-Z-600 c	600	1220	1145	1545	525	28	3000

Package consists of : clamshell bucket, rotator H 04 F140-30V, upper suspension H 501 (4500), wear plates H 685 07 set, welded hooks H 685 06 hook set 2, non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Packages clamshell bucket H 605U HPX-Z/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Volume (litre)	Width E (mm)	Height (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
03144623	H 605U HPX-Z-400/502 c	400	820	1215	1545	470	28	3000
03144624	H 605U HPX-Z-450/502 c	450	920	1215	1545	485	28	3000
03144625	H 605U HPX-Z-500/502 c	500	1020	1215	1545	500	28	3000
03144626	H 605U HPX-Z-600/502 c	600	1220	1215	1545	530	28	3000

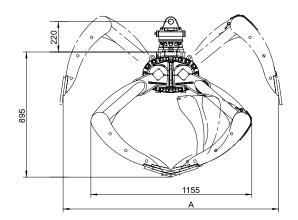
Package consists of : clamshell bucket, rotator H 04 S, reduction link H 502 (4500), short connecting hoses, H 203 01, upper suspension H 501 (4500), wear plates H 685 07, welded hooks H 685 06 hook set 2, non-return valve

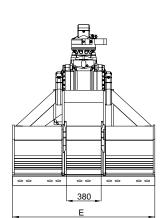
Accessories		
Part Number	Туре	Description
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143600	H 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

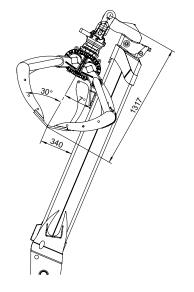
Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!









HEAVY DUTY ROCK GRAPPLE WITH HPXdrive - H 613HPX-HD

The H 613HPX-HD with *HPXdrive Heavy Duty* for positioning and handling natural stones, curbstones etc. A non-return valve secures constant pressure even in case of unexpected pressure drop. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (22 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.

Package rock grapple H 613HPX-HD with HYVA flange rotator

Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143022	Н 613НРХ-НD-0.35 с	0,35	400	1260	1710	335	22	2000

Package consists of : rock grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package rock grapple H 613HPX-HD/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143023	H 613HPX-HD-0.35/502 c	0,35	400	1315	1710	340	22	2000

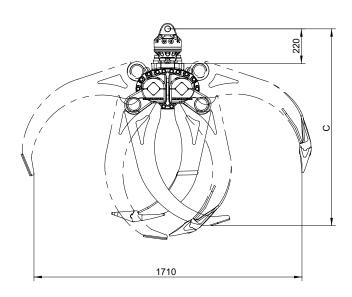
Package consists of : rock grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

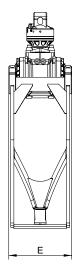
Accessories		
Part Number	Туре	Description
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!







HEAVY DUTY TIMBER GRAPPLE WITH HPXdrive - H 632HPX-HD

The H 632HPX with *HPXdrive Heavy Duty* for loading short logs, shrubbery, branches etc. A non-return valve secures constant pressure even in case of unexpected pressure drop. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a nonrotating hook is favoured.

Constant closing force (31 kN at 32 MPa operating pressure) for the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package timber grapple H 632HPX-HD with HYVA flange rotator

	3 11		-						
Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Log-Ø D min. (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143033	Н 632НРХ-НD-0.16 с	0,16	400	1010	170	1290	285	31	2000

Package consists of : timber grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package timber grapple H 632HPX-HD/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Log-Ø D min. (mm)	Opening A max. (mm)	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143034	H 632HPX-HD-0.16/502 c	0,16	400	1065	170	1290	290	31	2000

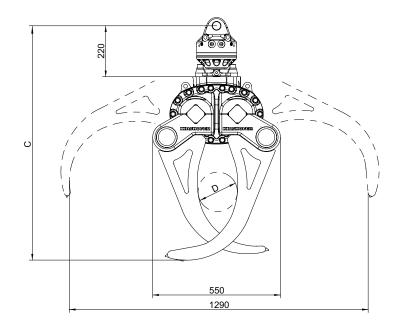
Package consists of : timber grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

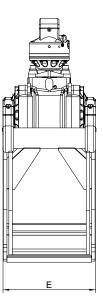
Accessories		
Part Number	Туре	Description
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!







HD HAY AND FORESTRY GRAPPLE WITH HPXdrive - H 641HPX-HD

The hay and forestry grapple H 641HPX-HD using the *HPXdrive Heavy Duty* is ideal for handling hay, brushwood, compost or manure – often used for municipal operations and road work. The revolutionary *HPXdrive* technology guarantees a reliable and low maintenance attachment.

Reliability of the *HPXdrive*! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinders!

Longer life cycle up to 50%! **Self-Iubrication**: The drive unit runs in a permanent oil bath. The compact design makes the *HPXdrive* resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit. **Profitability** through low maintenance costs and longer life cycle.

Precise handling with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts of the *HPXdrive*.

Rotator with shaft is available as an alternative, in case a quick change to a non-rotating hook is favoured.

Constant closing force (23 kN at 32 MPa operating pressure) over the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package hay and forestry grapple H 641HPX-HD with HYVA flange rotator

Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Opening A max. (mm)	Number of tines	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143054	H 641HPX-HD-0.4 c	0,40	940	1200	1720	7	390	23	2000

Package consists of : hay & forestry grapple, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

HPX-H 505 HD add : for heavy duty tasks we recommend the quick change system H 505 HD in combination with the HYVA rotator H 04 S68-30US

Package hay and forestry grapple H 641HPX-HD/502 with HYVA shaft rotator and reduction link

Part Number	Туре	Capacity (m²)	Width E (mm)	Height C (mm)	Opening A max. (mm)	Number of tines	Self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03143055	H 641HPX-HD-0.4/502 c	0,40	940	1255	1720	7	395	23	2000

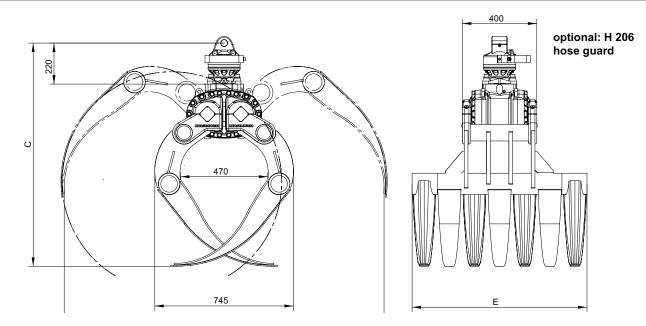
Package consists of : hay and forestry grapple, rotator H 04 S, reduction link H 502 (4500), short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

	Accessories	
Part Number	Туре	Description
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!





SMALL CLAMSHELL BUCKET W/HORIZONTAL CYLINDERS - H 626

The H 626 is the ideal solution for light weight loader cranes in daily routine work – robust, effective, budget priced.

Maximum loading height is achieved through the compact design with the horizontal double-cylinder.

Synchronized opening and closing through sturdy compensation bar.

Bolt-on digging teeth are delivered with each clamshell bucket.

Good digging behaviour through the closely positioned shell pivots.

Excellent digging characteristics are a result of high closing forces (27 kN at 26 MPa operating pressure).

Long life is ensured through the use of 500 HB steel in the manufacture of the cutting edges. **Reduced wear out** due to a generously dimensioned bearing system; service-friendly design.



Packages clamshell bucket H 626 c

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144180	Н 626-95 с	95	400	825	4	125	27	3000
03144181	H 626-100 c	100	450	825	4	130	27	3000

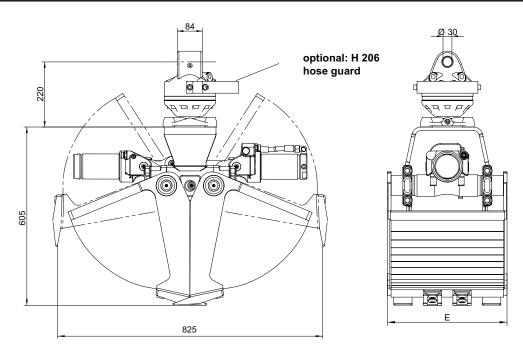
Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 626
03141000	H 03 S	HYVA shaft rotator for precise positioning of the load – up to 3000 kg load capacity
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotator H 04 S
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142520	H 502 (3000)	reduction link between rotator and grapple for H 03 S
03142522	H 502 (4500)	reduction link between rotator and grapple for H 04 S
03143551	H 680 02	scraper
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143573	H 685 06 eye set 2	welded eyes (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

 \bigwedge Mind the pressure!





CLAMSHELL BUCKET WITH HORIZONTAL CYLINDER - H 604

The H 604 is the ideal solution for light weight loader cranes in daily routine work – robust, effective, budget priced.

Maximum loading height is achieved through the compact design with the horizontal hydraulic cylinder.

Long life is ensured through the use of 500 HB steel in the manufacture of the cutting edges and a generously dimensioned bearing system.

Synchronized opening and closing through sturdy compensation bar.

Bolt-on digging teeth are delivered with each clamshell bucket.

Excellent digging characteristics are a result of high closing forces (20 kN at 26 MPa operating pressure).



Packages clamshell bucket H 604 c

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144042C	Н 604-250 с	250	500	1390	5	255	20	3000
03144044C	H 604-350 c	350	650	1390	5	275	20	3000
03144045C	H 604-450 c	450	800	1390	9	310	20	3000

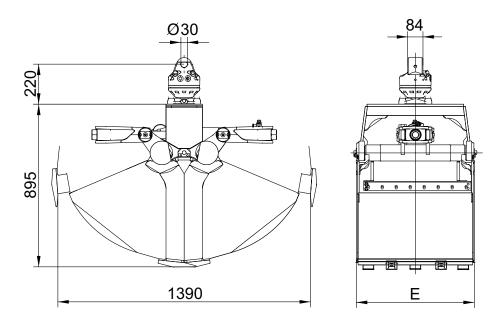
Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 626
03141000	H 03 S	HYVA shaft rotator for precise positioning of the load – up to 3000 kg load capacity
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotator H 04 S
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142520	H 502 (3000)	reduction link between rotator and grapple for H 03 S
03142522	H 502 (4500)	reduction link between rotator and grapple for H 04 S
03143551	H 680 02	scraper
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143573	H 685 06 eye set 2	welded eyes (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Operating pressure at oil flow:

max. 32 MPa (320 bar) at 40 - max. 90 l/min

Mind the pressure!





HD CLAMSHELL BUCKET WITH HORIZONTAL CYLINDER - H 605

The rugged clamshell bucket H 605 is recognized as successful synthesis of form, function and performance.

Maximum loading height is achieved through the compact design with the horizontal hydraulic cylinder.

Long life is ensured through the use of 500 HB steel in the manufacture of the cutting edges and a generously dimensioned bearing system.

Synchronized opening and closing through sturdy compensation bar.

Bolt-on digging teeth are delivered with each clamshell bucket. Excellent digging characteristics are a result of high closing forces (30 kN at 26 MPa

operating pressure).



Packages clam	Packages clamshell bucket H 605 c										
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)			
03144071C	Н 605-250 с	250	500	1430	3	320	30	3000			
03144072C	Н 605-350 с	350	650	1430	5	345	30	3000			

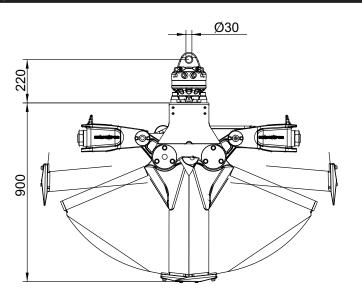
Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

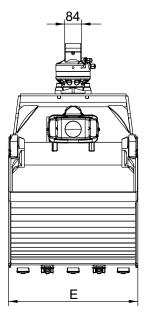
Packages clam	Packages clamshell bucket H 605 c											
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)				
03144070	H 605-200	200	400	1430	3	265	30	3000				
03144071	H 605-250	250	500	1430	5	285	30	3000				
03144072	H 605-350	350	650	1430	5	310	30	3000				
03144073	H 605-450	450	800	1430	9	340	30	3000				
03144074	H 605-550	550	1000	1430	9	375	30	3000				
03144075	H 605-650	650	1200	1430	9	410	30	3000				

Accessories Part Number Туре Description 03141008 H 04 F recommended HYVA rotator for H 605 03141002 H 04 S HYVA shaft rotator for precise positioning of the load - up to 4500 kg load capacity 03141005 H 04 S68-30US recommended HYVA shaft rotator for heavy duty tasks - up to 4500 kg load capacity 03142515 H 505 HD quick change system HD for shaft-type rotator H 04 S68-30US 03142522 H 502 (4500) reduction link between rotator and grapple 03143550 H 680 01 scraper 03143575 H 685 06 hook welded hooks (2 pieces) set 2 03143575 H 685 06 eye set 2 welded eyes (2 pieces) wear plates to protect horizontal cutting edges (2 pieces) 03143580 H 685 07 set 03143560 H 685 05 adapters for compression rails (Load capacity max. 250 kg, without compression rails) 60

Operating pressure at oil flow:

26 - 32 MPa (260 - 320 bar) at 40 - max. 75 l/min







REINFORCED CLAMSHELL BUCKET W/HORIZONTAL CYLINDER - H606

The rugged clamshell bucket H 606 is the reinforced version of the H 605. The cutting edges, shells and shell frame are reinforced.

Maximum loading height is achieved through the compact design with the horizontal hydraulic cylinder.

Long life is ensured through the use of 500 HB steel in the manufacture of the cutting edges and a generously dimensioned bearing system.

Synchronized opening and closing through sturdy compensation bar.

Bolt-on digging teeth are delivered with each clamshell bucket.

Excellent digging characteristics are a result of high closing forces (30 kN at 26 MPa operating pressure).



Heavy Duty clamshell bucket H 606 incl. teeth

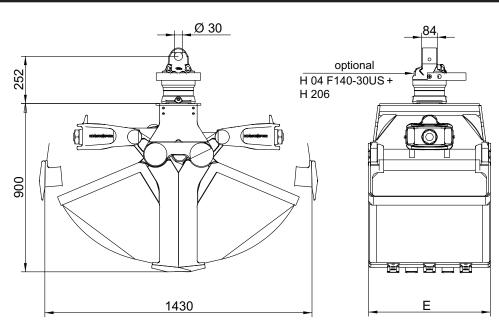
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03144130	H 606-200	200	400	1430	3	315	30	3000
03144131	H 606-250	250	500	1430	5	335	30	3000
03144132	H 606-350	350	650	1430	5	365	30	3000

Accessories

Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 606 – depending on application
03141012	H 06 F140-40	recommended HYVA rotator for H 606 – depending on application
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03143550	H 680 01	scraper
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143575	H 685 06 eye set 2	welded eyes (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
03143560	H 685 05	adapters for compression rails (Load capacity max. 250 kg, without compression rails)
03143507	H 381 09 (720)	compression rails – length 720 mm (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
03140000	H 203 01	short connecting hoses

Operating pressure at oil flow:

26 - 32 MPa (260 - 320 bar) at 40 - max. 75 l/min





UNIVERSAL BUCKET WITH HORIZONTAL CYLINDER - H 605U

The H 605U is a robust clamshell bucket and versatile tool for handling all kinds of refuse material. The open sides of the grapple enables the grab of bulk material.

Compact design with a horizontal hydraulic cylinder achieves a maximum loading height. **Long life** due to the use of 500 HB steel in the manufacture of the cutting edges and a generously dimensioned bearing system.

Synchronized opening and closing through sturdy compensation bar.

Safety is assured in the event of an unexpected pressure drop due to the integrated non-return valve.

Wear plates (reversible) and welded hooks are delivered on each grapple.

Powerfull operation due to high closing force (28 kN at an operating pressure of 26 MPa).



Packages clamshell bucket H 605U c

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03144101C	H 605U-300 c	300	670	1545	5	390	28	3000
03144102C	H 605U-400 c	400	500	1430	5	335	30	3000

Package consists of : clamshell bucket, rotator H 04 F, upper suspension H 501 (4500), wear plates H 685 07 set, welded hooks H 685 06 hook set 2, short connecting hoses H 203 01, non-return valve

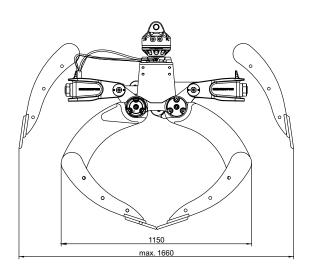
Clamshell bucket H 605U								
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144100	H 605U-250	250	570	1545	5	340	28	3000
03144101	H 605U-300	300	670	1545	5	355	28	3000
03144102	H 605U-400	400	820	1545	7	380	28	3000
03144103	H 605U-450	450	920	1545	7	390	28	3000
03144104	H 605U-500	500	1020	1545	9	410	28	3000
03144105	H 605U-600	600	1220	1545	9	440	28	3000

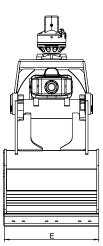
Accessories

Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 605U
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03143560	H 685 05	adapters for compression rails (Load capacity max. 250 kg, without compression rails)
03143507	H 381 09 (720)	compression rails – length 720 mm (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm (2 pieces)
03143600	Н 685 09 С	side plates to screw onto the grapple for easy digging tasks (4 pieces)

Operating pressure at oil flow:

26 - 32 MPa (260 - 320 bar) at 40 - max. 75 l/min







HIGH VOLUME CLAMSHELL BUCKET - H 602

A robust clamshell bucket for handling loose material as sand, gravel, soil – perfectly matched to heavy duty work on vehicle mounted cranes.

Excellent filling characteristics of the rugged grapple due to the special shape of the buckets and the wide separation between their axes that enables wide opening.
Practically no "left overs" of the material to be picked up as the working edges are vertical when the buckets are open and allow a deep plunge into a pile of material.
High stability through reinforced buckets, torsion-free frame, generously dimensioned bearing system and the use of 500 HB steel in the manufacture of cutting edges.
Combination of compensator mechanism and cylinder guard has many advantages: parallel action, longer life for piston rod and seals, significant weight savings.
Efficient handling with high closing forces (28 kN at an operating pressure of 26 MPa).



Packages high volume clamshell bucket H 602 c

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03144001C	Н 602-400 с	400	800	1830	9	490	28	3000
03144002C	H 602-500 c	500	1000	1830	9	535	28	3000
03144003C	H 602-650 c	650	1200	1830	9	595	28	3000

Package consists of : high volume clamshell bucket, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

Note: UK packages of H 602 includes H 04 F, H 501, H 203 01, H 685 06 eye set 2, H 685 07 set

High volume clamshell bucket H 602

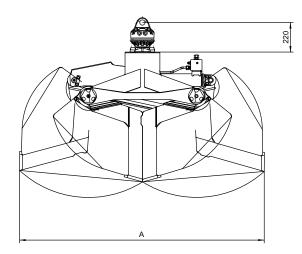
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144000	H 602-300	300	500	1830	5	360	28	3000
03144001	H 602-400	400	800	1830	9	425	28	3000
03144002	H 602-500	500	1000	1830	9	465	28	3000
03144003	H 602-650	650	1200	1830	9	515	28	3000
03144004	H 602-1000	1000	1200	2190	9	585	23	3000

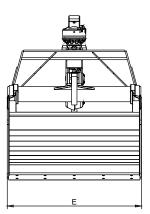
Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 602
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03143575	H 685 06 hook set 2	welded hooks (2 pieces)

Operating pressure at oil flow:

26 MPa (260 bar) at max. 75 l/min

26 - 37 MPa (260 - 370 bar) at max. 40 l/min







CLAMSHELL BUCKET WITH NARROW CARRIER - H 622

The high volume clamshell bucket H 622 has a significant narrow frame and can therefore fullfill small digging tasks besides the handling.

The H 622S is a reinforced version with a strong 6t- or 10t-rotator.

Suitable for digging due to the narrow frame.

Compact design due to the narrow frame enables manual filling of the bucket without obstacles.

Practically no left overs" of the material to be picked up as the working edges are vertical when the buckets are open and allow a deep plunge into a pile of material. **High stability** through reinforced buckets, torsion-free frame, generously dimensioned bearing system and the use of 500 HB steel in the manufacture of cutting edges.

Combination of compensator mechanism and cylinder guard has many advantages: parallel action, longer life for piston rod and seals, significant weight savings. **Efficient handling** with high closing forces (H 622: 20 kN at 26 MPa / H 622S: 29 kN at 24

MPa operating pressure).



Packages high volume clamshell bucket H 622 c

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
03144150C	Н 622-300 с	300	640	1670	5	360	20	3000
03144151C	H 622-400 c	400	800	1670	9	390	20	3000
03144155	Н 622-500 с	500	1000	1670	9	415	20	3000

Package consists of : high volume clamshell bucket, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

Note: UK package of H 622-400c/-500c incl. H 04 F, H 501, H 203 01, H 685 06 eye set 2, H 685 07 set

Packages high volume clamshell bucket H 622S (other sizes on request)

Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN)	Load capacity (kg)
03149256	H 622S-500-6t c	500	800	1960	9	450	29	3000
03149255	H 622S-500-10t c	500	800	1960	9	470	29	3000
De else se este					DZ ZC. 104. 1110		the lease surveys	

Package consists of : high volume clamshell bucket, rotator (6t: H 06 F173-35; 10t: H 10 F173-35/1) with hose guard,

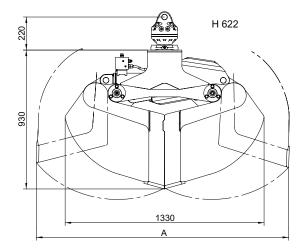
High volume clamshell bucket H 622								
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN)	Load capacity (kg)
03144150	H 622-300	300	640	1670	5	315	20	3000
03144151	H 622-400	400	800	1670	9	345	20	3000
03144152	H 622-500	500	1000	1670	9	370	20	3000

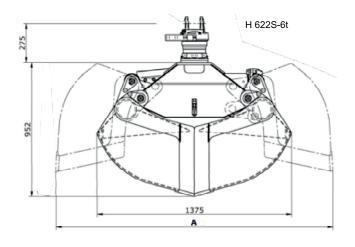
Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 622
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Operating pressure at oil flow:

H 622: 26 MPa (260 bar) at max. 75 l/min 26 - 37 MPa (260 - 370 bar) at max. 40 l/min

H 622S: 24 MPa (240 bar) at 40 - 75 l/min







CLAMSHELL BUCKET WITH VERTICAL CYLINDER - H 603

The H 603 is a proven grapple for daily routine work – ideal for excavating foundations, trenches and other similar applications in civil engineering. The closely positioned shell pivots ensure good digging behaviour and high closing pressure.

Good digging behaviour through the closely positioned shell pivots. **Longevity** is ensured through the use of 500 HB steel in the manufacture of cutting edges and

the generously dimensioned bearing system. The enclosed hydraulic cylinder (in a hub unit) and short hydraulic connection hoses lower the risk of damage and down-time. **Maximum loading height** is achieved through the compact design.

Bolt-on digging teeth are delivered with each clamshell bucket.

Excellent digging characteristics are the result of high closing forces (20 kN at an operating pressure of 26 MPa).

Alternatively to the H 603 the H 604HPX can be used with an extension for excavating



Packages clar	nshell bucket H	603 c						
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN)	Load capacity (kg)
03144016	Н 603-250 с	250	500	1390	5	330	20	3000
03144017	H 603-350 c	350	650	1390	5	355	20	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

High volume clamshell bucket H 602

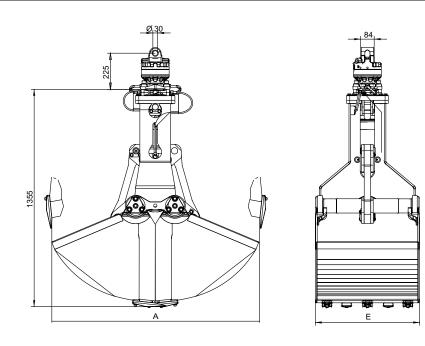
riigh volume o		11002						
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144010	H 603-150	150	325	1390	3	260	20	3000
03144011	H 603-200	200	400	1390	3	275	20	3000
03144012	H 603-250	250	500	1390	5	295	20	3000
03144013	H 603-325	325	600	1390	5	315	20	3000
03144014	H 603-350	350	650	1390	5	320	20	3000
03144015	H 603-450	450	800	1390	9	355	20	3000

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 603
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotator H 04 S
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03143550	H 680 01	scraper
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143575	H 685 06 eye set 2	welded eyes (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Operating pressure at oil flow:

max. 26 MPa (260 bar) at 25 - max. 75 l/min

Mind the pressure!





HD CLAMSHELL BUCKET WITH VERTICAL CYLINDERS - H 607

The powerful clamshell bucket H 607 with two vertical hydraulic cylinders is ideal for heavy digging work in grown soil.

Good digging behaviour due to good plunge behaviour and proven shell geometry. Long life is ensured through the use of 500 HB steel in the manufacture of cutting edges and the generously dimensioned bearing system. Piston rod protection for the vertical hydraulic cylinders are standard.

Synchronised bucket movements due to sturdy compensation rods.

Bolt-on digging teeth are delivered with each clamshell bucket.

Excellent digging characteristics are the result of high closing forces (32 kN at an operating р

pressure of 26 N	∕IPa).							V
Alternatively t	o the H 607 the	Н 605НРХ с	an be used w	ith an extensi	ion for excava	iting.		
Packages clar	nshell bucket H (607 c						
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	self weight (kg)	Closing force (kN)	Load capacity (kg)
03144145	Н 607-215 с	215	500	1295	5	320	32	3000
	Н 607-350 с	350	650	1390	5	355	20	3000

Package consists of : clamshell bucket, bolt-on teeth, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 (4500), non-return valve

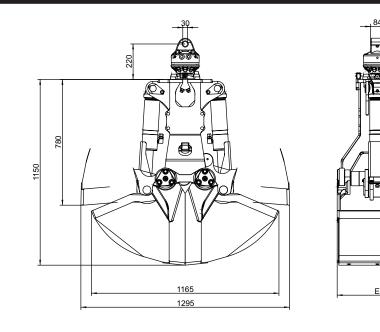
High volume o	High volume clamshell bucket H 602							
Part Number	Туре	Volume (litre)	Width E (mm)	Opening A max. (mm)	Number of teeth (optional)	weight (kg)	Closing force (kN at 32 MPa)	capacity (kg)
03144140	H 607-135	135	325	1295	3	260	32	3000
03144141	H 607-170	170	400	1295	3	270	32	3000
03144142	H 607-215	215	500	1295	5	285	32	3000
03144143	H 607-255	255	600	1295	5	300	32	3000
03144144	H 607-340	340	800	1295	5	300	32	3000

Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 607
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03143550	H 680 01	scraper (not for width 800 mm)
03143575	H 685 06 hook set 2	welded hooks (2 pieces)
03143575	H 685 06 eye set 2	welded hooks (2 pieces)
03143580	H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Operating pressure at oil flow:

max. 26 MPa (260 bar) at 25 - max. 75 l/min

Mind the pressure!





ACCESSORIES FOR CLAMSHELL BUCKETS

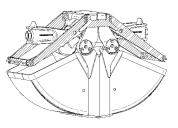
H 680 – Scrapers

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

Part Number	Туре	für Clamshell bucket
03143550	H 680 01	H 603/ 604/ 604HPX/ 605/ 605HPX/ 606/ 607
03143551	H 680 02	Н 626НРХ / Н 626
	H 505 04	link-set for H 604HPX/605HPX/626HPX in combination with H 505 / H 505 HD and scraper H 680



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



H 685 05 – Adapter for compression rails and compression rails

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

Part Number	Туре	für Clamshell bucket
03143560	H 685 05	adapters for compression rails (Load capacity max. 250 kg)
03143507	H 381 09 (720)	compression rails – length 720 mm lang (2 pieces)
03143508	H 381 09 (1000)	compression rails – length 1000 mm lang (2 pieces)

The adapters for compression rails are available for the following clamshell buckets: H 603/ 604/ 604HPX/ 604U HPX/ 605/ 605U/ 605HPX/ 605U HPX/ 606

H 685 06 - Central lifting devices for HPX, welded hooks and welded eyes

The central lifting device for HPXdrive, welded eyes or welded hooks suit lifting chains or slings. The max. capacity per eye or hook is 1000 kg.

Part Number	Туре	Description
03143570	H 685 06 HPX SD	to suit lifting chain or sling, 1 piece
03143571	H 685 06 HPX HD	to suit lifting chain or sling, 1 piece
03143574	H 685 06 hook	to suit lifting chain or sling, 1 piece
03143575	H 685 06 hook set 2	to suit lifting chain or sling, 2 pieces
03143576	H 685 06 hook set 4	to suit lifting chain or sling, 4 pieces
03143572	Н 685 06 еуе	to suit lifting chain or sling, 1 piece
03143573	H 685 06 eye set 2	to suit lifting chain or sling, 2 pieces



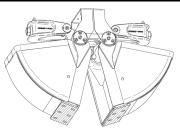






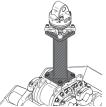
H 685 07 – Wear plates (2 pcs.)

Part Number	Туре	Description	
03143580	H 685 07 set	Wear plates, 2 pieces, to protect horizontal cutting edges	
			A



H 685 08 - Extension for excavation works with the HPXdrive Standard or the HPXdrive Heavy Duty

Part Number	Туре	Description	(A)
03143590	H 685 08 HPX-450	HPXdrive extension for excavating e.g. trenches (for canal and civil engineering) – 450 mm (30 kg)	





ASYMMETRIC ORANGE PEEL GRAPPLES - H 652/2

The reliable asymmetric orange peel grapple H 652/2 with half closing tines provides for an easy transport, resting flat against the crane arm and not protruding the width of the carrier machine. It is mainly used for handling scrap,

waste and construction materials, and is available with five (H 652-5/2) or six tines (H 652-6/2) – depending on the task.

Asymmetric construction: the grapple rests flat against the crane arm in its transport position (see below drawing).

Special slot on the main carrier allows the transport of a big orange peel grapple, that does not protrude the width of the carrier (2,5 m).

Half closing tines by default, completely closing at the points, for handling waste, scrap, loose materials, etc.

Non-return valve garantees a secure retention of loads even when pressure drops.

Long service life due to robust design – oil distributor and hydraulic hoses are protected in the center part, generously dimensioned bearings, wearresistant shells made of 400 HB steel, cylinder with piston rod protection, stops for both end postitions of tines. Strong operation due to high closing forces (13 kN at 26 MPa operating pressure).

Asymmetric orange peel grapples H 652-5/2 and H 652-6/2									
Part Number	Туре	Number of tines	Volume (Litre)	Opening Ø A (mm)	Width E (closed) (mm)	Height C (mm)	Weight (w/o rotator)	capacity (kg)	Closing force (kN)
03143097	H 652-5/2	5	240	1790	1065	1110	350	2500	13
03143098	H 652-6/2	6	240	1790	1065	1110	410	2500	13

Package consists of : orange peel grapple, non-return valve

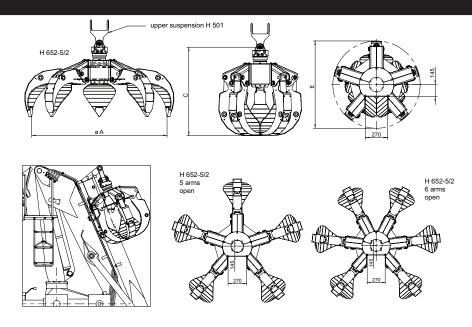
Accessories		
Part Number	Туре	Description
03141016	H 06 F173-35	recommended HYVA rotator for H 652/2

Requirements of truck crane

Operating pressure at oil flow:

max. 26 MPa (260 bar) at 25 - max. 75 l/min

/! Mind the pressure!





ORANGE PEEL GRAPPLES - H 650 SMALL

Small orange peel grapple for the handling of bulky scrap, the H 650 small for various applications is available with different tine shapes, different volumes (120I, 180I, 240I), with 4 or 5 tines.

Different tine shapes of the H 650 series to accomodate handling a variety of materials: • **H 651:** fully closing tines for handling swarf, loose waste, soil, gravel etc.

• H 652: half closing tines for handling swarf, scrap, rubbish, waste paper etc.

• **H 653:** pointed tines for bulky scrap, car bodies, bundled waste paper etc.

Long life due to a solid design: the hydraulic cylinder pistons are protected by the gripping arms and the hydraulic hoses, connections and oil distributor are positioned in the robust centre section. Special wear resistant materials used in the production of the gripping arms and oversized bearings ensure a long service life for these sturdy grapples. **A lifting-eye** on the centre section acts as an additional stop.

Powerful operation with high closing force (11 kN to 13 kN at an operating pressure of 26 MPa).



Orange peel grapple H 650 small

Part Number	Туре	Number of tines	Volume (Litre)	Opening Ø A (mm)	Width E (closed) (mm)	Height C (mm)	Self Weight (w/o rotator)	Load capacity (kg)	Closing force (kN)
03143060	H 651-4-120		120	1360	1065	800	330	2000	13
03143061	H 651-4-180	4	180	1450	1070	850	345	2000	12
03143062	H 651-4-240		240	1720	1125	985	380	2000	11
03143070	H 651-5-120		120	1360	1065	800	350	2000	13
03143071	H 651-5-180	5	180	1450	1070	850	365	2000	12
03143072	H 651-5-240		240	1720	1125	985	415	2000	11
03143080	H 652-4-120		120	1360	1065	800	260	2000	13
03143081	H 652-4-180	4	180	1450	1070	850	270	2000	12
03143082	H 652-4-240		240	1720	1125	985	300	2000	11
03143090	H 652-5-120		120	1360	1065	800	300	2000	13
03143091	H 652-5-180	5	180	1450	1070	850	305	2000	12
03143092	H 652-5-240		240	1720	1125	985	340	2000	11
03143100	H 653-4-120		120	1360	1065	800	230	2000	13
03143101	H 653-4-180	4	180	1450	1070	850	235	2000	12
03143102	H 653-4-240		240	1720	1125	985	250	2000	11
03143110	H 653-5-120		120	1360	1065	800	275	2000	13
03143111	H 653-5-180	5	180	1450	1070	850	285	2000	12
03143112	H 653-5-240		240	1720	1125	985	300	2000	11
Package cons	ists of : orange p	beel grapple	e, non-retur	n valve					

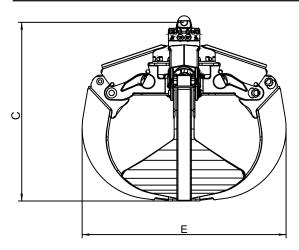
Accessories		
Part Number	Туре	Description
03141008	H 04 F	recommended HYVA rotator for H 650 small
03141009	H 04 F140-30US	recommended HYVA rotator for H 650 small – for heavy duty application

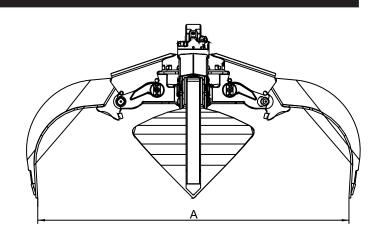


Operating pressure at oil flow:

max. 26 MPa (260 bar) at 25 - max. 75 l/min

Mind the pressure!





ORANGE PEEL GRAPPLES - H 650 LARGE

Large orange peel grapple for the handling of bulky scrap, the H 650 large for various applications is available with different tine shapes, different volumes (250I, 350I, 500I), with 4 or 5 tines.

Different tine shapes of the H 650 series to accomodate handling a variety of materials: • **H 651**: fully closing tines for handling swarf, loose waste, soil, gravel etc.

- **H 652:** half closing tines for handling swarf, scrap, rubbish, waste paper etc.
- **H 653:** pointed tines for bulky scrap, car bodies, bundled waste paper etc.
- Number of tines can be chosen with 4 or 5 tines.

Long life due to a solid design: the hydraulic cylinder pistons are protected by the gripping arms and the hydraulic hoses, connections and oil distributor are positioned in the robust centre section. Special wear resistant materials used in the production of the gripping arms and oversized bearings ensure a long service life for these sturdy grapples. **A lifting-eye** on the centre section acts as an additional stop.

Powerful operation with high closing force (13 kN to 18 kN at an operating pressure of 26 MPa).



Orange peel grapple H 650 large

Part Number	Туре	Number of tines	Volume (Litre)	Opening Ø A (mm)	Width E (closed) (mm)	Height C (mm)	Self Weight (w/o rotator)	Load capacity (kg)	Closing force (kN)
03143063	H 651-4-250		250	1550	1285	1015	445	2500	18
03143064	H 651-4-350	4	350	1720	1260	1100	470	3000	16
03143065	H 651-4-500		500	2155	1320	1350	555	3000	13
03143073	H 651-5-250		250	1550	1285	1015	520	2500	18
03143074	H 651-5-350	5	350	1720	1260	1100	545	3000	16
03143075	H 651-5-500		500	2155	1320	1350	635	3000	13
03143083	H 652-4-250		250	1550	1285	1015	425	2500	18
03143084	H 652-4-350	4	350	1720	1260	1100	440	3000	16
03143085	H 652-4-500		500	2155	1320	1350	505	3000	13
03143094	H 652-5-250		250	1550	1285	1015	505	2500	18
03143095	H 652-5-350	5	350	1720	1260	1100	520	3000	16
03143096	H 652-5-500		500	2155	1320	1350	595	3000	13
03143103	H 653-4-250		250	1550	1285	1015	390	2500	18
03143104	H 653-4-350	4	350	1720	1260	1100	395	3000	13
03143105	H 653-4-500		500	2155	1320	1350	435	3000	13
03143113	H 653-5-250		250	1550	1285	1015	470	2500	18
03143114	H 653-5-350	5	350	1720	1260	1100	480	3000	16
03143115	H 653-5-500		500	2155	1320	1350	525	3000	13
Dackage consists of change neel grapple, non-return valve									

Package consists of : orange peel grapple, non-return valve

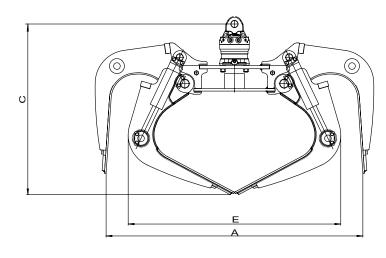
AccessoriesPart NumberTypeDescription03141008H 04 Frecommended HYVA rotator for H 650 large03141009H 04 F140-30USrecommended HYVA rotator for H 650 large – for heavy duty application03141012H 06 F140-40recommended HYVA rotator for H 650 large – for heavy duty application

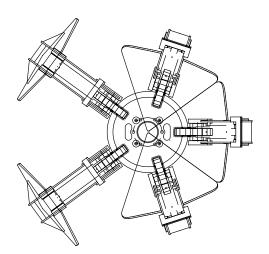


Operating pressure at oil flow:

max. 26 MPa (260 bar) at 25 - max. 75 l/min

Mind the pressure!





HARVESTER FOR TELEHANDLERS - H 634-3Z

The harvester H 634-3Z has been developed especially for telescopic forklifts. During the sawing process, the three robust tines of the integrated grab hold the log firmly and securely. Available in two sizes.

Three interlocking, robust tines made of Hardox 400 steel.

Automatic re-stress of the grab during the sawing process. The re-stress can be stopped by a lever to cut e.g. single branches separately.

Optimum grab design allows to clamp even very thin logs.

Saw equipped with automatic chain pretension and greasing.

Precise positioning thanks to the HYVA-rotation with 4 motors and 2 holding breaks (H 634-0.35-3Z) or the worm drive (H 634-0.25-3Z).

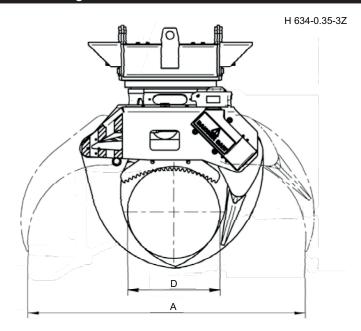
High torque. **Highly safe hydraulics** due to an integrated non-return valve, so theload is held safely even in the case of pressure drops.

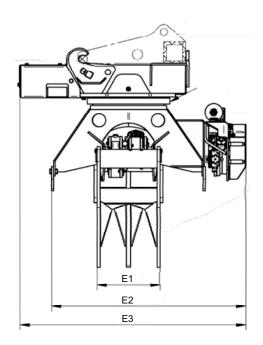
8/3 solenoid valve included to operate the grab with only one control circuit.

									<i>P</i>	
Harvester H 6	34-3Z									
Part Number	Туре	Capacity (m2)	Widths E1 / E2 / (E3) (mm)	Log-Ø D max. (mm)	Log-Ø min. (mm)	Opening A max. (mm)	Weight (kg)	Closing force (kN)	Torque (Nm)	Load capacity (kg)
	H 634-0.25-3Z	0,25	350 / 1000	520	40	1470	630	13	12000	1250
	H 634-0.35-3Z	0,35	430 / 1325 / (1540)	625	50	1710	950	18	14400	2000

Package consists of : harvester, rotation with 4 motors and 2 holding breaks (H 634-0.35-3Z) or worm drive (H 634-0.25-3Z), quick change adapter for telescopic fork lift, 8/3 solenoid valve, non-return valve

Requirements of carrier machine		
	H 634-0.25-3Z	H 634-0.35-3Z
Operating pressure (open/close):	max. 24 MPa (240 bar)	max. 28 MPa (280 bar)
	/ Mind the	e pressures!
Operating pressure (rotate):	17 MPa (170 bar)	20 MPa (200 bar)
Recommended oil flow (open/close):	60 - 100 l/min	75 - 120 l/min
Recommended oil flow (rotate):	20 - 50 l/min	20 - 50 l/min









PIPE GRAPPLE FOR TELEHANDLERS - H 930P

The pipe grapple H 930P is the ideal tool to grip, lift, handle and position poles, pipes and tubes with a telehandler.

360° endless rotation.

High load capacities from 1000 kg up to 3000 kg can be positioned easily with the pipe grapple.

Precise positioning due to an integrated rotation with two motors and two holding brakes (H 930-3000P equipped with four motors).

Secure retention of loads thanks to an integrated nonreturn valve and clamping pads at the tine tips.



Pipe grapple H 930P									
Part Number	Туре	Load capacity (kg)	Poles Ø (min./max.) (mm)	Width E (mm)	Number of tines	Self weight (kg)	Closing force (kN)	Torque (Nm)	
03149270	H 930-1000P	1000	70 / 300	1785	2	760	23	5000	
03149271	Н 930-2000Р	2000	70 / 300	2175	4	870	45	5000	
03149272	Н 930-3000Р	3000	70 / 300	2560	6	1100	68	10000	

Package consists of : pole grapple (w/o upper bracket), integrated rotation, non-return valve

Note : poles and pipes always need to be gripped in the center of gravity.

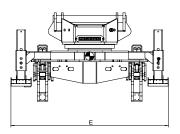
Accessories		
Part Number	Туре	Description
03140007	H 980-2 c	Solenoid valve to upgrade to the third hydraulic control circuit, to switch when there are only two free hydraulic circuits available for three required funtions (rotate, grab and tilt) – for 12/24 V, operating pressure max. 25 MPa, oil flow 60 l/min. Complete including assembly parts, hose protection, hoses and assembly
Requirements o	f carrier mad	chine

Requirements of carrier machine	
Operating pressure (open/close):	max. 25 MPa (250 bar)
Recommended oil flow (open/close):	50 - max. 100 l/min
Operating pressure (rotate):	max. 25 MPa (250 bar)
Operating pressure (rotate): Recommended oil flow (rotate):	max. 25 MPa (250 bar) 140 - max. 170 l/min

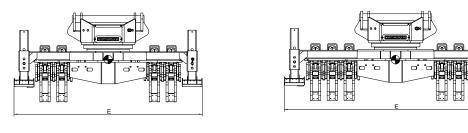
Technical drawings

All 3 technical drawings with optional Manitou-bracket.

Other brackets on request.



H 930-1000P



H 930-2000P

H 930-3000P

LOGGING GRAPPLE - H 634

The H 634 is a robust and powerful tool for logs – especially for heavy duty operation. Well suited for handling single trunks.

Low height with one horizontal hydraulic cylinder – especially when closed due to the interlocking arms.

Long service life is ensured by the sturdy construction, high quality components and generously dimensioned bearing system. All bearing bolts are case hardened and housed in steel bearing bushes.

Optimised design allows extremely small grapple diameter – ideal for handling thin timber securely. The arms open almost vertically. That enables an easy penetration into the timber stack.

Synchronisation of arms due to sturdy compensation rods.

Protection of the hoses for the hydraulic connections by a hose guard on the HYVA rotator.

Precise positioning of the loads is no problem in combination with the HYVA rotator – continuous rotation, precise start and stop ability.

Safety is assured in the event of an unexpected pressure drop due to the integrated non-return valve. **Reinforced version H 634S** with more sturdy construction and equipped with a stronger rotator.

Packages logging grapple H 634 c									
Part Number	Туре	Capacity (m²)	Width E (mm)	Log-Ø D2 min. (mm)	Log-Ø D2 max. (mm)	Opening A max. (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
03143046	Н 634-0.25 с	0,25	420	90	460	1470	215	13	4000
03143047	H 634-0.35 c	0,35	500	135	590	1950	300	16	5000

Package consists of : logging grapple, rotator with hose guard (for H 634-0,25: H 06 F173-35, for H 634-0,35: H 10 F173-35), short connecting hoses H 203 01, upper suspension H 501 suiting rotator size, non-return valve

Logging grapple H 634									
Part Number	Туре	Capacity (m²)	Width E (mm)	Log-Ø D2 min. (mm)	Log-Ø D2 max. (mm)	Opening A max. (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
03143040	H 634-0.25	0,25	420	90	460	1470	170	13	4000
03143041	H 634-0.35	0,35	500	135	590	1950	225	16	5000
03143042	H 634-0.50	0,50	500	170	650	1985	250	15	5000

Reinforced logging grapple H 634S									
Part Number	Туре	Capacity (m ²)	Width E (mm)	Log-Ø D2 min. (mm)	Log-Ø D2 max. (mm)	Opening A max. (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
03143043	H 634S-0.40	0,40	510	135	590	1950	270	16	6000
03143044	H 634S-0.50	0,50	510	170	650	1985	275	16	7000
03143045	H 634S-0.70	0,70	590	110	870	2570	530	15	8000

Accessories		
Part Number	Туре	Description
03141016	H 06 F173-35	recommended HYVA rotator for H 634-0.25
03141017	H 10 F173-35/1	recommended HYVA rotator for H 634-0.35
03141019	H 10 F173-45	recommended HYVA rotator for H 634S
03141020	H 10 F173-52	recommended HYVA rotator for H 634S

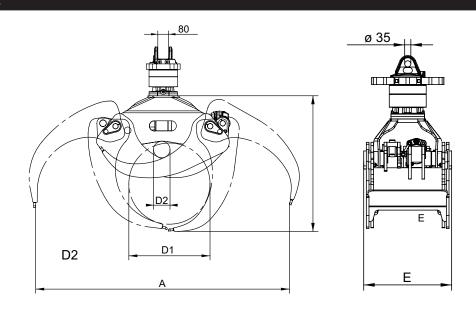




Operating pressure at oil flow:

max. 24 MPa (240 bar) at 25 - max. 75 l/min

 \bigwedge Mind the pressure!



RAIL GRAPPLE WITH HPXdrive - H 632HPX RAIL

The rail grapple H 632HPX Rail with its HPXdrive is used for the loading and unloading of rails, but also, with care, handle single sleepers. A non-return valve secures constant pressure even in case of unexpected pressure drop.

The revolutionary HPXdrive technology guarantees a reliable and low maintenance attachment. The grapple is ideal for mobile loader cranes as well as for rigidly mounted loader cranes on maintenance trailers.

Reliability of the HPXdrive! The movement of the arms of the grapple is generated by two hollow shafts, which run opposed and have a helix thread, hydraulically driven by a single piston. No more hydraulic cylinder.

Longer life cycle up to 50%! **Self-lubrication**: The drive unit runs in a permanent oil bath. The compact design makes the HPXdrive resistant to dirt and debris.

Versatility with different types of shells that can easily be refitted onto the driving unit.

Profitability through low maintenance costs and longer life cycle.

Rotator with shaft H 04 S is available as an alternative, in case a quick change H 505 (or a reduction link H 502 or e.g. for a non-rotating hook) is required.

Constant closing force (34 kN at 26 MPa operating pressure) during the entire opening and closing process.

Package rail grappple H 632HPX Rail c with HYVA Flange Rotator							
Part Number	Туре	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Closing force (kN) at 26 MPa	Load capacity (kg)
03149258	H 632HPX Rail c	1000	560	740	265	34	2000

Package consists of : rail grapple, HYVA rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve

HPX-H 505 add : also available with a shaft rotator and quick change system H 505

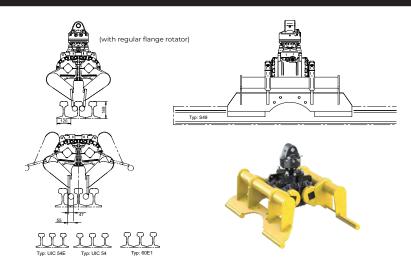
Accessories		
Part Number	Туре	Description
03141002	H 04 S	HYVA shaft rotator for precise positioning of the load – up to 4500 kg load capacity
03141005	H 04 S68-30US	recommended HYVA shaft rotator for heavy duty tasks – up to 4500 kg load capacity
03142530	H 505	quick change system for shaft-type rotator H 04 S
03142515	H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
03142522	H 502 (4500)	reduction link between rotator and grapple
03140002	H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
03140004	H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pc. each) mounted to rotator
03149259	H 632HPX Rail-S	exchangeable tines for rail grapple, incl. exchange aid – weight tines 125 kg

Requirements of truck crane

Operating pressure: 26 MPa (260 bar)

max. 24 MPa (240 bar) at 25 - max. 75 l/min

Recommended oil flow: 25 - max. 75 l/min







RAILROAD GRAPPLE WITH VERTICAL CYLINDERS - H 632R

Designed to handle the various demands of the rail, the Universal Railroad Grapple with verical cylinders H 632R c can be used for rails and railroad ties / sleepers – and even for clearing brush.

The Universal Railroad Grapple is **ideal for handling used sleepers or rails – single or bundled.** Long service life is ensured by the sturdy construction and high quality components. Reduced wear resulting from generously dimensioned bearing system.

Tine tips are vertical when the grapple is fully opened, allowing easy loading and unloading of bundled ties – directly from gondola cars.

Exchangeable gears are standard and ensure synchronized movement of tines.

Each arm is equipped with a heavy duty hydraulic cylinder, providing an extremely high clamping force.

The **gear-type continuous rotator** allows precise positioning of the grapple. **Safety:** a special holding valve provides a safe grip – even if pressure drops. **Central lifting eye** included with 3000 kg load capacity.



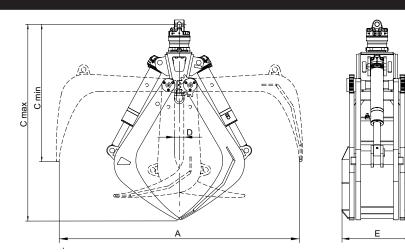
Universal railroad grapple H 632R c										
Part Number	Туре	Capacity (m²)	Width (mm)	Opening A max. (mm)	Height C max. (mm)	Height C min. (mm)	Gripping range D min. (kg)	Self weight (kg)	Load capacity (kg)	Closing force (kN)
03149260	H 632R-0,25 c	0.35	600	1750	1370	1070	76	440	3000	22.50
03149261	H 632R-0,33 c	0.50	600	1980	1500	1195	76	465	3000	19.40
03149262	H 632R-0,50 c	0.75	600	2440	1700	1270	76	600	3000	15.30

Package consists of : universal railroad grapple, HYVA rotator H 04 F140-30US, short connecting hoses, upper suspension H 501 (4500), non-return valve, central lifting eye

Accessories Part Number Type O3142515 H 505 HD heavy duty quick change system set for HYVA sh

03142515	H 505 HD	heavy duty quick change system set for HYVA shaft rotators, incl. hydraulic couplings
03143573	H 685 06 eye / hook set 2	welded eyes / welded hooks (2 pieces)

Requirements of truck crane	
Operating pressure (open/close):	max. 26 MPa (260 bar)
Recommended oil flow (open/close):	25 - max. 75 l/min
Operating pressure (rotation):	max. 32 MPa (320 bar)
Recommended oil flow (rotation):	15 - max. 50 l/min



RAILROAD GRAPPLE WITH HORIZONTAL CYLINDERS - H 632-2-R

Designed to handle the various demands of the rail, the Universal Railroad Grapple with horizontal cylinders H 632-2-R can be used for rail or ties.

The Universal Railroad Grapple is **ideal for handling used sleepers and rails – and even for clearing brush.**

Long service life is ensured by the sturdy construction and high quality components.

Reduced wear resulting from generously dimensioned bearing system.

Tine tips are vertical when the grapple is fully opened, allowing easy loading and unloading of bundled ties - directly from gondola cars.

Gears are standard and ensure synchronized movement of tines.

The tool is equipped with two horizontal hydraulic cylinders, providing an extremely high clamping force.

The **gear-type continuous rotator** allows precise positioning of the grapple.

Safety: a special holding valve provides a safe grip – even if pressure drops.

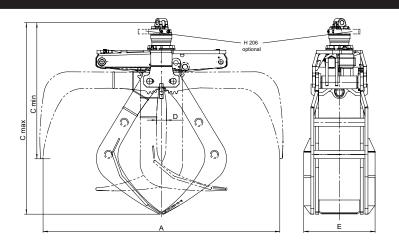


Universal railroad grapple H 632-2-R c										
Part Number	Туре	Capacity (m²)	Width (mm)	Opening A max. (mm)	Height C max. (mm)	Height C min. (mm)	Gripping range D min. (kg)	Self weight (kg)	Load capacity (kg)	Closing force (kN)
3149257	H 632-2-R c	0.50	600	1980	1430	1150	85	355	3000	14

Package consists of : universal railroad grapple, HYVA rotator H 04 F140-30US, short connecting hoses, upper suspension H 501 (4500), non-return valve, central welded eye

Accessories		
Part Number	Туре	Description
03142515	H 505 HD	heavy duty quick change system set for shaft rotators, incl. hydraulic couplings
03143573	H 685 06 eye / hook set 2	welded eyes / welded hooks (2 pieces)
03140005	H 206	hose guard

Requirements of truck crane	
Operating pressure (open/close):	max. 26 MPa (260 bar)
Recommended oil flow (open/close):	25 - max. 75 l/min
Operating pressure (rotation):	max. 32 MPa (320 bar)
Recommended oil flow (rotation):	15 - max. 50 l/min





CONTAINER DISCHARGE UNITS - H 920 -1 / H 920-22

HYVA container discharge attachments with ring system or the fast HYVA mushroom system are characterised by short cycle times and an attractive acquisition price. Containers can be emptied even faster and more cost effectively with a one-man operation.

Container discharge unit H 920-1 with ring system / low overall height

Low overall height due to compact design.

Extremely low maintenance and ecofriendly, because no bearing has to be lubricated.

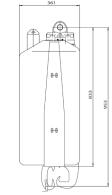
Hooks on automatically when container is lifted.

Precise positioning with HYVA rotator. **Low maintenance rotator** due to the use of plastic bushings.

Protection against damage of container by automatic lift stop.

Available with two load capacities (version A and B).





Part Number	Туре	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight*	Operating pressure at oil flow
03149263	H 920-1-Ac	500	4500	1160	174	35 MPa (350 bar) at 40 l/min
03149264	H 920-1-Bc	500	2500	1160	174	35 MPa (350 bar) at 40 l/min

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, HYVA-rotator H 04 F140-30LM, connecting tubes, upper suspension with pendulum damper H 511 (4500), non-return valve

Container discharge unit H 920-22 for containers with HYVA mushroom system

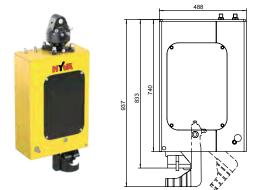
Low overall height due to compact design.

Extremely low maintenance and ecofriendly, because no bearing has to be lubricated.

Hooks on automatically when container is lifted.

Precise positioning with HYVA rotator. **Low maintenance rotator** due to the use of plastic bushings.

Protection against damage of container by automatic lift stop.



Part Number	Туре	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight*	Operating pressure at oil flow
03149265	H 920-22c	500	2500	1157	178	35 MPa (350 bar) at 40 l/min

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, HYVA-rotator H 04 F140-30LM, connecting tubes, upper suspension with pendulum damper H 511 (4500), non-return valve

CONTAINER DISCHARGE UNITS - H 920-11 / H 921

HYVA container discharge attachments with ring system or the fast HYVA mushroom system are characterised by short cycle times and an attractive acquisition price. Containers can be emptied even faster and more cost effectively with a one-man operation.

Container discharge unit H 920-11 for containers with ring system

Robust mechanics with few moving parts and guided lifting hook. Precise positioning with HYVA rotator, due to the use of a rotator with vertical oil ducts no externally installed hydraulic hoses are necessary. Pressure relief valve ensures independence of crane operating pressure. Protection against damage of container by automatic lift stop. Part Number Type max. Lift Load Height Self weight* Operating pressure of the hook at oil flow capacity (incl. rotator) (mm) (kg) (mm) 03140301 H 920-11 500 2500 1400 135 20 - 26 MPa (200 - 260 bar) at max. 75 l/min 20 - 37 MPa (200 - 370 bar) at max. 40 l/min

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, rotator H 04 F140-30V, short connecting hoses H 203 01, non-return valve, upper suspension with pendulum damper H 511 (4500), pressure relief valve

Container discharge unit H 921 for containers with HYVA mushroom system or ring system

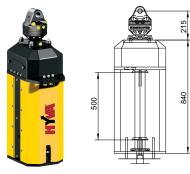
Combination model: without any adjustments both types of containers can be handled – with HYVA **mushroom system or ring system.**

Low overall height due to compact design.

Robust mechanics with self locking spindle.

Precise positioning with HYVA rotator.

Pressure relief valve ensures **independence of crane operating pressure**. Protection against damage of container by **automatic lift stop and an additional height control system**.



Part Number	Туре	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight*	Operating pressure at oil flow
03140310	H 921	500	2500	1055	180	20 - 26 MPa (200 - 260 bar) at max. 75 l/min 20 - 37 MPa (200 - 370 bar) at max. 40 l/min

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, rotator H 04 F, short connecting hoses H 203 01, upper suspension with pendulum damper H 511 (4500), pressure relief valve



CONTAINER DISCHARGE UNITS - H 920-12

HYVA container discharge attachments with the fast HYVA mushroom system are characterised by short cycle times and an attractive acquisition price. Containers can be emptied even faster and more cost effectively with a one-man operation.

Container discharge unit H 920-12 for containers with HYVA mushroom system

Robust mechanics with **self centring hydraulic interlocking. Precise positioning** with HYVA rotator, direct hose routing. **Independence of crane operating pressure** due to the pressure relief valve. Protection against damage of container by **automatic lift stop and an additional height control system.** Pressure control for **user controlled unlocking.** Including **integrated locking indicator.**



Part Number	Туре	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight*
03140302	H 920-12	500	2500	1490	210

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, rotator H 04 F140-30V, short connecting hoses H 203 01, non-return valve, upper suspension with pendulum damper H 511 (4500), pressure relief valve

Requirements of truck crane

Operating pressure at oil flow:

20 - 26 MPa (200 - 260 bar) at max. 75 l/min

20 - 37 MPa (200 - 370 bar) at max. 40 l/min

TWIN-HOOK CONTAINER DISCHARGE UNIT - H 920-31

The HYVA container discharge unit with twin-hook for deposit containers with system Schäfer are characterised by short cycle times and an attractive acquisition price. Containers can be emptied even faster and more cost effectively with a one-man operation. The attachment is extremely maintenance low, robust and low-built thanks to its compact construction.

Container discharge unit H 920-31 for containers with twin-hook system

Robust mechanics.

Precise positioning with HYVA rotator, short hose connection. **Independence of crane operating pressure** due to the pressure relief valve. Easy handling thanks to **low overall height**. **Low maintenance.**

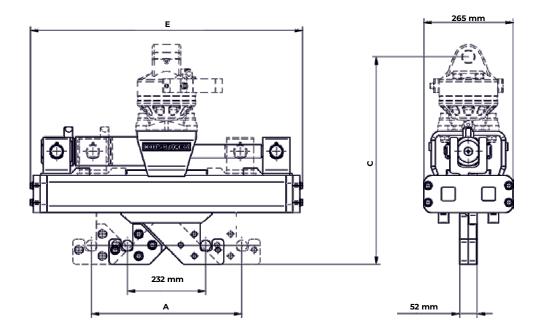


Part Number	Туре	max. Lift of the hook (mm)	width E (mm)	width D (mm)	Load capacity (kg)	Height C (mm)	Self weight* (kg)
	H 920-31	500	805	265	4500	615	160

* incl. motor / excl. upper suspension & pendulum damper

Package consists of : container discharge unit, rotator H 04 F, short connecting hoses H 203 01, upper suspension with pendulum damper H 511 (4500), pressure relief valve and non-return valve

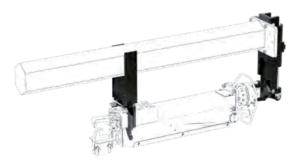
Requirements of truck crane	
Operating pressure (open/close):	max. 35 MPa (350 bar)
Recommended oil flow (open/close):	40 l/min
Operating pressure (rotation):	max. 26 MPa (260 bar)
Recommended oil flow (rotation):	25 - max. 75 l/min





DOCKING DEVICE FOR CONTAINER DISCHARGE UNITS - H 924

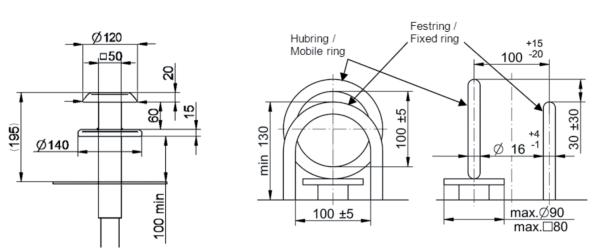
Docking devic	Docking device for container discharge units										
Part Number	Туре	Description	Tilting angle (deg.)	Self weight (kg)							
03140320	H 924	docking device for container discharge units: it allows the discharge unit to be hydraulically docked and locked onto the crane jib. When unlocked, acts as a hydraulic pendulum damper. A solenoid valve for switch-over between the hydraulic circuits is included. Please state crane model when ordering. Operating pressure max. 28 MPa (280 bar).	90°	70							



Dimensions for containers with HYVA mushroom or ring system

mushroom system for containers

ring system for containers



mushroom and ring system: leverage hoisting max. 500 mm

HYDRAULIC LOAD HOOKS - H 920-5 / H 920-4

Hydraulic hook H 920-5 for tools and loads with ring system

Low overall height due to compact design.

Precise positioning in combination with HYVA rotator.

The **safety load hook** is equipped with a hydraulic cylinder for opening/closing without opening unintenionally in a loaded condition.

Suitable for the hydraulic suspension of pallet forks with vertical crane hook suspension or with additional hook (verson B) for the fast and precise load suspension with e.g. tightropes, lashing straps, etc. and the following release of the loads (version C w/o additional hook).

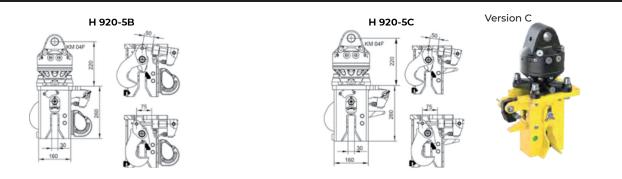
Including integrated locking indicator.



Part Number	Туре	Width (mm)	Load capacity (kg)	Ring - Ø max. (mm)	Height (incl. rotator) (mm)	Self weight (kg)	Operating pressure at oil flow
03149266	H 920-5Bc	310	4500	30	480	48	37 MPa (370 bar) at 2 - max. 10 l/min
03149268	H 920-5Cc	305	4500	30	480	47	37 MPa (370 bar) at 2 - max. 10 l/min

Package consists of : hydraulic hook, rotator H 04 F, short connection hoses H 203 01, upper suspension H 501 (4500), non-return valve

Technical drawings



Hydraulic hook H 920-4 for containers and loads with ring system

The hydraulic hook facilitates the fast and precise lifting and loosening of containers and loads with ring system. Precise positioning in combination with HYVA rotator.

Low overall height due to compact design.

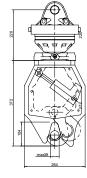
Robust mechanics with hydraulic cylinder (open/close).

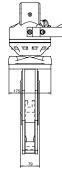
V-shaped cutout facilitates ring suspension.

Rotator with vertical oil ducts, so **no open short hose** connections.

Part Number	Туре	Width (mm)	Height (with motor) (mm)	Ring - Ø max. (mm)	Self weight (incl. rotator) (kg)	Load capacity max. (kg)	Betriebsdruck bei Literleistung
03140009	H 920-4c	264	592	38	46	2500	20 MPa (200 bar) bei 2 - max. 10 l/min

Package consists of : hydraulic hook, rotator H 04 F140-30V, upper suspension H 501 (4500), non-return valve









H 930-1000 SPECIAL/H 931-1000 - Manipulator / 3-Axes-Manipulator

The pole grapple H 930-1000 Special is a perfectly matched attachment for drilling sites. Poles can be gripped easily and positioned precisely. The 3-axes-manipulator H 931 features maximum manoeuvrability for your attachments at the loader crane's tip – and provides flexibility of the loader crane's use in any arc position.

3-axes-manipulator: maneuverability by three hydraulic functions: gripping, rotating and tilting (3rd hydraulic cycle needed).

Endless rotation.

High loads up to 1000 kg.

Precise positioning guaranteed by self-locking worm drive (H 931-1000).

5-line feedthrough.

H 930-1000 Special provides an exchangeable jaw system.

Pole grapple H 930-1000 Special									
Part Number	Туре	Load Capacity (kg)	Gripping range (min./max.) (mm)	Width E (mm)	Number of tines	Self weight (kg)	Closing force (kN)		
03149269	H 930-1000 SPECIAL	1000	(75/168)	1600	2	385	2 x 16		
	H 930-1000 SPECIAL-S		(127/220)						

Package consists of : manipulator, hydraulically released / self locking brake, HYVA rotator, non-return valve

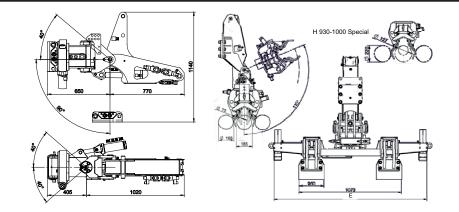
Please note : tubes or poles have to be grabbed always in the centre of gravity

3-Axes-manipulator H 931-1000										
Part Number	Туре	Load Capacity (kg)	Slewing angle	Tilting angle	Rotation	Self weight (kg)				
	H 931-1000 SPECIAL	1000	130°	± 40°	360° endless	290				

Package consists of : manipulator, hydraulically released / self locking brake, HYVA rotator, non-return valve

Please note : tubes or poles have to be grabbed always in the centre of gravity

	Accessorie	s						
Part Number	Туре	Description						
03140007	H 980-2 c	olenoid valve to upgrade to the third hydraulic control circuit, to switch when there are only vo free hydraulic circuits available for three required funtions (rotate, grab and tilt) – for 12/24 , operating pressure max. 25 MPa, oil flow 60 l/min. Complete including assembly parts, hose rotection, hoses and assembly						
Requirements	of truck crane	e						
Туре		Operating pressure at oil flow:						
H 930-1000 SPECIAL		max. 20 MPa (200 bar) at 20 - max. 40 l/min						
H 931-1000 SPECIAL		20 - 24 MPa (200 - 240 bar) at 20 - max. 30 I/min 🏾 🛆 Mind the pressure!						



MANIPULATOR - H 930 SPECIAL

A hydraulically operated attachment used for positioning tubes or poles, the H 930 is for use on loader cranes with three functions. Flange mounting on the mechanical extension of the crane.

Manoeuvrability through three hydraulic functions gripping, lifting and turning (rotation and tilting) of straight round poles (three hydraulic circuits are necessary). Unlimited angle of rotation.
 Heavy loads of 500 kg up to 3000 kg can be handled by the HYVA manipulators.
 Precision operation assured through continuous rotation, equipped with mechanically operating, hydraulic pilot controlled brake to prevent unintentional rotation.

Manipulator H 930								
Part Number	Туре	Load Capacity (kg)	Pipe - Ø(min./ max.) (mm)	Width E (mm)	Number of tines	Self weight (kg)	Closing force (kN)	
	H 930-500 SPECIAL	500	100/300	785	1	235	11	
03149269	H 930-1000 SPECIAL	1000	100/300	1275	2	310	23	
03149271	H 930-2000 SPECIAL	2000	250/600	2165	4	865	25	
03149272	H 930-3000 SPECIAL	3000	250/600	2560	6	1085	39	

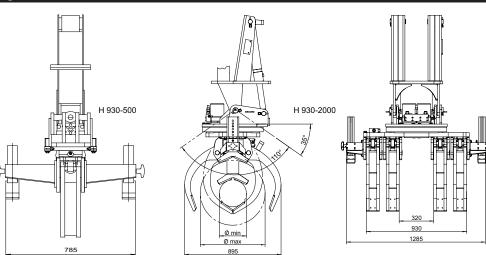
Package consists of : manipulator, HYVA rotator (H 930-500 / H 930-1000) / HYVA rotary drive (H 930-2000 / H 930-3000), hydraulic pilot controlled brake, non-return valve

Please note : tubes or poles have to be grabbed always in the centre of gravity

Accessories		
Part Number	Туре	Description
03140007	H 980-2 c	Solenoid valve to upgrade to the third hydraulic control circuit, to switch when there are only two free hydraulic circuits available for three required funtions (rotate, grab and tilt) – for 12/24 V, operating pressure max. 25 MPa, oil flow 60 l/min. Complete including assembly parts, hose protection, hoses and assembly

Requirements of truck crane Type Operating pressure at oil flow: H 930-500 / H 930-1000 SPECIAL max. 20 MPa (200 bar) at 20 - max. 40 l/min H 930-2000 SPECIAL max. 25 MPa (250 bar) at 20 - max. 40 l/min H 930-3000 SPECIAL max. 25 MPa (250 bar) at 20 - max. 75 l/min

⚠ Mind the pressure!





BARRIER LIFTER - H 932MB

The H 932MB Barrier Lifter is a mechanical grapple for fast and convenient handling of concrete barriers and blocks.

Safe: Carbide gripping pads ensure safe operation, even on wet or coated surfaces. An optical power indicator illustrates the range for optimum grip.

Efficient: The fully integrated, mechanically operated "latch & release" system allows the unit to function independently, without assistance from a ground man.

Versatile: Multi-position arms are a standard feature. This means one unit can achieve different gripping ranges by simply changing a pin position.

Cost-effective: The elimination of slings and chains means more cycles can be achieved per hour.

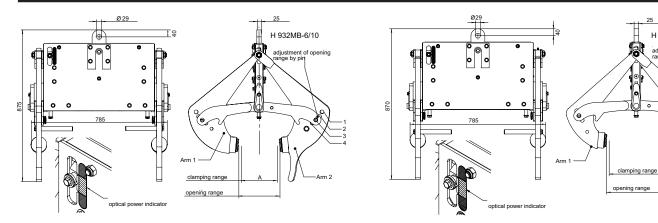
Fast: The "latch & release" system functions automatically each time the load line is slackened.



H 932MB-12/14

adjustment of opening range by pin

Manipulator H 930									
Part Number	Туре	Opening range A (min./max.) (mm)	Self weight (kg)	Load capacity max. (kg)					
03140110	H 932MB-6/10	115 – 305	162	6580					
03140111	H 932MB-12/14	295 – 395	150	6580					



EARTH DRILLS - 3000TC / 5500TC / 7000TC

The robust earth drills for truck cranes up to 18 t/m are an economical and customized solution for earth drills e.g. for 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.

7000TC

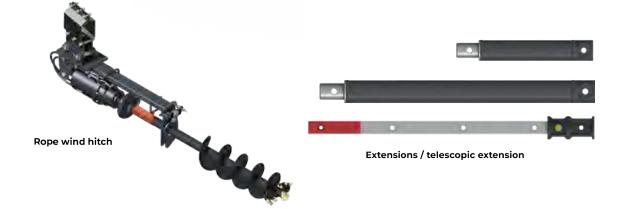
5500TC 3000тс

Earth drills for truck cranes 3000TC / 5500TC / 7000TC									
Part Number	Туре	For cranes up to (t/m)	Shaft standard	Shaft option (mm)	Speed range (RPM)	Height (mm)	Diameter (mm)	Weight (kg)	Suitable augers
	3000TC SPECIAL	9	65 round	2" hex; 57 square	7 - 46	665	244	73	S4 100 - 600
	5500TC SPECIAL	15	75 square	2,5" hex	11 - 38	780	269	108	S5 150 - 800
	7000TC SPECIAL	9 - 18	75 square	2,5" hex	9 - 30	780	269	110	S5 150 - 1000

Package consists of : earth drill, connecting link for suspension

Accessories		
Part Number	Туре	Description
03146003	H4 Ext 500	extension suitable for earth drill 3000TC and S4 augers – 500 mm
03146004	H4 Ext 800	extension suitable for earth drill 3000TC and S4 augers – 800 mm
03146005	H4 Ext 1000	extension suitable for earth drill 3000TC and S4 augers – 1000 mm
	H5 Ext 1000	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 1000 mm
03146006	H5 Ext 1500	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 1500 mm
03146007	H5 Ext 2000	extension suitable for earth drills 5500TC / 7000TC and S5 augers – 2000 mm
03146008	H6 TeleExt 1500	telescopic extension suitable for earth drills 5500TC / 7000TC and S5 augers starting from diameter 300 mm – 1500 mm length
03146009	H6 TeleExt 2000	telescopic extension suitable for earth drills 5500TC / 7000TC and S5 augers starting from diameter 300 mm – 2000 mm length
03146010	Rope Wind Hitch	rope wind hitch for safe position on the truck crane during transport

Technical Details			
Туре	3000TC	5500TC	7000TC
Oil pressure range:	80 - 260 bar	80 - 260 bar	80 - 240 bar
Oil flow range:	5 - 35 l/min	15 - 50 I/min	15 - 50 l/min
Torque range:	959 - 3116 Nm	1685 - 5477 Nm	2098 - 6819 Nm





AUGERS FOR EARTH DRILLS - S4

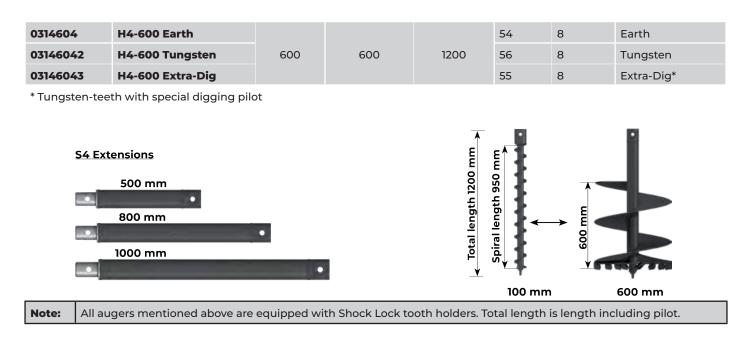
The S4 auger is perfectly matched to the 3000TC earth drill and every task. A constant spiral configuration and a shallow pitch flight guarantee extreme efficiency and productivity. Suitable for truck cranes up to 9 t/m .

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

The shock Lock-System: incorporating a shock absorbing rubber element to protect the tungsten carbide on the tooth assembly coupled with a solid locking pin prevent tooth loss. High flexibility thanks to different auger extensions. For earth drill 3000TC.



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03146027H4-300 Tungsten3007001200334Tungsten03146028H4-300 Extra-Dig24Extra-Dig*03146030H4-350 Earth3506751200364Earth03146031H4-350 Extra-Dig6751200364Extra-Dig*03146032H4-400 Earth3506751200364Extra-Dig*03146033H4-400 Extra-Dig3506751200364Extra-Dig*03146034H4-400 Extra-Dig3509251200395Tungsten03146035H4-450 Earth4506251200436Earth03146036H4-450 Earth4506251200436Extra-Dig*03146037H4-500 Earth5006251200486Earth03146038H4-500 Earth5006251200486Earth	03146025	H4-250 Extra-Dig				28	3	Extra-Dig*
03146028H4-300 Extra-Dig324Extra-Dig*03146029H4-350 Earth3506751200364Earth03146031H4-350 Extra-Dig3506751200364Extra-Dig*03146032H4-400 Earth365Earth03146033H4-400 Earth385Earth03146034H4-400 Extra-Dig385Extra-Dig*03146035H4-450 Earth4009251200395Tungsten03146036H4-450 Earth4506251200436Earth03146037H4-450 Earth4506251200486Earth03146038H4-500 Earth5006251200486Earth	03146026	H4-300 Earth				32	4	Earth
03146029H4-350 Earth 14-350 Tungsten3506751200354Earth03146031H4-350 Extra-Dig3506751200364Tungsten03146032H4-400 Earth385Earth03146033H4-400 Tungsten4009251200395Tungsten03146034H4-400 Extra-Dig7385Earth03146035H4-450 Earth385Earth03146036H4-450 Earth4506251200436Earth03146037H4-450 Extra-Dig6251200486Earth03146038H4-500 Earth5006251200486Earth	03146027	H4-300 Tungsten	300	700	1200	33	4	Tungsten
03146030H4-350 Tungsten3506751200364Tungsten03146031H4-350 Extra-Dig </th <th>03146028</th> <th>H4-300 Extra-Dig</th> <th></th> <th></th> <th></th> <th>32</th> <th>4</th> <th>Extra-Dig*</th>	03146028	H4-300 Extra-Dig				32	4	Extra-Dig*
03146031H4-350 Extra-DigImage: sector of the sector	03146029	H4-350 Earth				35	4	Earth
03146032H4-400 Earth385Earth03146033H4-400 Tungsten4009251200395Tungsten03146034H4-400 Extra-Dig385Extra-Dig*03146035H4-450 Earth450450426Earth03146036H4-450 Tungsten4506251200436Earth03146037H4-450 Extra-Dig4506251200486Earth03146039H4-500 Tungsten5006251200486Earth	03146030	H4-350 Tungsten	350	675	1200	36	4	Tungsten
03146033H4-400 Tungsten4009251200395Tungsten03146034H4-400 Extra-Dig	03146031	H4-350 Extra-Dig				36	4	Extra-Dig*
03146034H4-400 Extra-Dig385Extra-Dig*03146035H4-450 Earth450A50A50A61Earth03146036H4-450 Tungsten450A6251200436Extra-Dig*03146037H4-450 Extra-Dig450A50A6251200486Earth03146039H4-500 Tungsten5006251200486Tungsten	03146032	H4-400 Earth				38	5	Earth
03146035 H4-450 Earth 450 625 1200 42 6 Earth 03146036 H4-450 Tungsten 450 625 1200 43 6 Tungsten 03146037 H4-450 Extra-Dig 43 6 Extra-Dig* 03146038 H4-500 Earth 48 6 Earth 03146039 H4-500 Tungsten 500 625 1200 48 6 Tungsten	03146033	H4-400 Tungsten	400	925	1200	39	5	Tungsten
03146036 H4-450 Tungsten 450 625 1200 43 6 Tungsten 03146037 H4-450 Extra-Dig - - - 43 6 Extra-Dig* 03146038 H4-500 Earth - - - 48 6 Earth 03146039 H4-500 Tungsten 500 625 1200 48 6 Tungsten	03146034	H4-400 Extra-Dig				38	5	Extra-Dig*
03146037 H4-450 Extra-Dig 43 6 Extra-Dig* 03146038 H4-500 Earth 48 6 Earth 03146039 H4-500 Tungsten 500 625 1200 48 6 Tungsten	03146035	H4-450 Earth				42	6	Earth
03146038 H4-500 Earth 48 6 Earth 03146039 H4-500 Tungsten 500 625 1200 48 6 Tungsten	03146036	H4-450 Tungsten	450	625	1200	43	6	Tungsten
03146039 H4-500 Tungsten 500 625 1200 48 6 Tungsten	03146037	H4-450 Extra-Dig				43	6	Extra-Dig*
	03146038	H4-500 Earth				48	6	Earth
03146040 H4-500 Extra-Dig 48 6 Extra-Dig*	03146039	H4-500 Tungsten	500	625	1200	48	6	Tungsten
	03146040	H4-500 Extra-Dig				48	6	Extra-Dig*





AUGERS FOR EARTH DRILLS - S5

The S5 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. Suitable for truck cranes from 9 t/m up to 18 t/m.

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 prevent tooth loss. High flexibility thanks to **different auger extensions** and telescopic extensions. **For earth drills 5500TC and 7000TC.**



S5 Augers (specify pilot and teeth when ordering)

Part Number	Туре	Diameter (mm)	Spiral length (mm)	Total length (mm)	Weight (kg)	Number of teeth	Type of teeth
03146044	H5-150 Earth				36	0	Earth
03146045	H5-150 Tungsten	150	1080	1500	35	0	Tungsten
03146046	H5-150 Rock				35	2	Rock
03146047	H5-200 Earth				41	2	Earth
03146048	H5-200 Tungsten	200	977	1500	40	2	Tungsten
03146049	H5-200 Rock				40	3	Rock
03146050	H5-225 Earth				45	2	Earth
03146051	H5-225 Tungsten	225	975	1500	44	2	Tungsten
03146052	H5-225 Rock				44	4	Rock
03146053	H5-250 Earth				46	2	Earth
03146054	H5-250 Tungsten	250	965	1500	46	2	Tungsten
03146055	H5-250 Rock				45	4	Rock
03146056	H5-300 Earth				51	4	Earth
03146057	H5-300 Tungsten	300	900	1500	51	4	Tungsten
03146058	H5-300 Rock				50	5	Rock
03146059	H5-350 Earth				56	4	Earth
03146060	H5-350 Tungsten	350	900	1500	56	4	Tungsten
03146061	H5-350 Rock				55	6	Rock
03146062	H5-400 Earth				62	5	Earth
03146063	H5-400 Tungsten	400	875	1500	61	5	Tungsten
03146064	H5-400 Rock				59	7	Rock
03146065	H5-450 Earth				66	6	Earth
03146066	H5-450 Tungsten	450	750	1500	66	6	Tungsten
03146067	H5-450 Rock				63	8	Rock
03146068	H5-500 Earth				73	6	Earth
03146069	H5-500 Tungsten	500	750	1500	73	6	Tungsten
03146070	H5-500 Rock				73	6	Rock
03146071	H5-600 Earth				84	8	Earth
03146072	H5-600 Tungsten	600	750	1500	84	8	Tungsten
03146073	H5-600 Rock				82	11	Rock

03146074	H5-700 Earth				99	9	Earth
03146075	H5-700 Tungsten	700	700	1500	99	9	Tungsten
03146076	H5-700 Rock				95	13	Rock
03146077	H5-750 Earth				101	9	Earth
03146078	H5-750 Tungsten	750	700	1500	101	9	Tungsten
03146079	H5-750 Rock				98	14	Rock
03146080	H5-800 Earth		700	1500	109	9	Earth
03146081	H5-800 Tungsten	800			109	9	Tungsten
03146082	H5-800 Rock				113	15	Rock
03146083	H5-900 Earth				137	10	Earth
03146084	H5-900 Tungsten	900	700	1500	137	10	Tungsten
03146085	H5-900 Rock				133	17	Rock
03146086	H5-1000 Earth				119	11	Earth
03146087	H5-1000 Tungsten	1000	525	1500	119	11	Tungsten
03146088	H5-1000 Rock				133	19	Rock

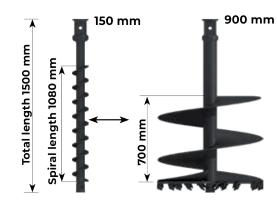
* Tungsten-teeth with special digging pilot

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Note: All augers mentioned above are equipped with Shock Lock tooth holders. Total length is length including pilot.

S6 Telescopic extension

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ECO BRICK CLAMP K-LINE

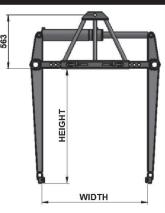
ECO brick clamp is suitable for all palletized and non-palletized construction materials.

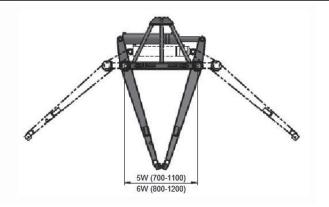
Capacity 3.500 kg | Max. working pressure: 200 bar | Non return valve prevents loss of clamping force | 2 hoses with 1/2" quick release couplings | Low own weight due to the use of high tensile steel | Easy width adjustment | Several options available for clamping rail | Stand up bracket for easy "parking" | Height reduction due to the possibility of À at stowing | Cylinder RAL1023, Clamp RAL9005



Part Number	Description	Width (mm)	Length (mm)	Height (mm)	Weight (ka)	Parallel Guide (P)	Relief valve + Manometer (V)
85998110	ECO L1000-H1150-5W-0-0	700 – 1100	1000	1150	290	no	no
85998120	ECO L1000-H1150-5W-P-0	700 – 1100	1000	1150	300	yes	no
85998130	ECO L1000-H1150-5W-0-V	700 – 1100	1000	1150	290	no	yes
85998140	ECO L1000-H1150-5W-P-V	700 – 1100	1000	1150	300	yes	yes
85998150	ECO L1000-H1150-6W-0-0	800 - 1300	1000	1150	300	no	no
85998160	ECO L1000-H1150-6W-P-0	800 – 1300	1000	1150	310	yes	no
85998170	ECO L1000-H1150-6W-0-V	800 - 1300	1000	1150	300	no	yes
85998200	ECO L1000-H1150-6W-P-V	800 - 1300	1000	1150	310	yes	yes
85998210	ECO L1200-H1150-5W-0-0	700 – 1100	1200	1150	300	no	no
85998220	ECO L1200-H1150-5W-P-0	700 – 1100	1200	1150	310	yes	no
85998230	ECO L1200-H1150-5W-0-V	700 – 1100	1200	1150	300	no	yes
85998240	ECO L1200-H1150-5W-P-V	700 – 1100	1200	1150	310	yes	yes
85998250	ECO L1200-H1150-6W-0-0	800 - 1300	1200	1150	310	no	no
85998260	ECO L1200-H1150-6W-P-0	800 – 1300	1200	1150	320	yes	no
85998270	ECO L1200-H1150-6W-0-V	800 - 1300	1200	1150	310	no	yes
85998300	ECO L1200-H1150-6W-P-V	800 – 1300	1200	1150	320	yes	yes
85998310	ECO L1300-H1150-5W-0-0	700 – 1100	1300	1150	310	no	no
85998320	ECO L1300-H1150-5W-P-0	700 – 1100	1300	1150	320	yes	no
85998330	ECO L1300-H1150-5W-0-V	700 – 1100	1300	1150	310	no	yes
85998340	ECO L1300-H1150-5W-P-V	700 – 1100	1300	1150	320	yes	yes
85998350	ECO L1300-H1150-6W-0-0	800 – 1300	1300	1150	320	no	no
85998360	ECO L1300-H1150-6W-P-0	800 – 1300	1300	1150	330	yes	no
85998370	ECO L1300-H1150-6W-0-V	800 - 1300	1300	1150	320	no	yes
85998380	ECO L1300-H1150-6W-P-V	800 – 1300	1300	1150	330	yes	yes







ECOHV BRICK CLAMP K-LINE

ECOHV height adjustable brick clamp is suitable for all palletized and non-palletized construction materials.

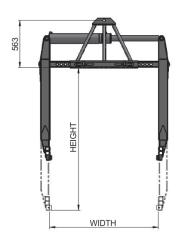
Capacity 2.500 kg - 1.900 kg, depending on chosen height | Max. working pressure: 200 bar | Non return valve prevents loss of clamping force | 2 hoses with 1/2" quick release couplings | Low own weight due to the use of high tensile steel. | Easy width adjustment. | Several options available for clamping rail. | Stand up bracket for easy "parking" | Height reduction due to the possibility of À at stowing. | Cylinder RAL1023, Clamp RAL9005

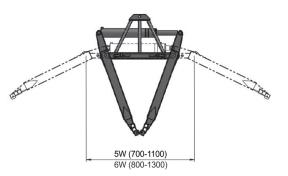


Part Number	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve + Manometer (V)
85997600	ECOHV L1000-H1150-5W-0-0	700 – 1100	1000	1100-1700	445	no	no
85997610	ECOHV L1000-H1150-5W-P-0	700 – 1100	1000	1100-1700	475	yes	no
85997620	ECOHV L1000-H1150-5W-0-V	700 – 1100	1000	1100-1700	445	no	yes
85997630	ECOHV L1000-H1150-5W-P-V	700 – 1100	1000	1100-1700	475	yes	yes
85997640	ECOHV L1000-H1150-6W-0-0	800 – 1300	1000	1100-1700	455	no	no
85997650	ECOHV L1000-H1150-6W-P-0	800 – 1300	1000	1100-1700	485	yes	no
85997660	ECOHV L1000-H1150-6W-0-V	800 – 1300	1000	1100-1700	455	no	yes
85997670	ECOHV L1000-H1150-6W-P-V	800 – 1300	1000	1100-1700	485	yes	yes
85997700	ECOHV L1200-H1150-5W-0-0	700 – 1100	1200	1100-1700	465	no	no
85997710	ECOHV L1200-H1150-5W-P-0	700 – 1100	1200	1100-1700	495	yes	no
85997720	ECOHV L1200-H1150-5W-0-V	700 – 1100	1200	1100-1700	465	no	yes
85997730	ECOHV L1200-H1150-5W-P-V	700 – 1100	1200	1100-1700	495	yes	yes
85997740	ECOHV L1200-H1150-6W-0-0	800 – 1300	1200	1100-1700	475	no	no
85997750	ECOHV L1200-H1150-6W-P-0	800 – 1300	1200	1100-1700	505	yes	no
85997760	ECOHV L1200-H1150-6W-0-V	800 – 1300	1200	1100-1700	475	no	yes
85997770	ECOHV L1200-H1150-6W-P-V	800 – 1300	1200	1100-1700	505	yes	yes

Technical drawings









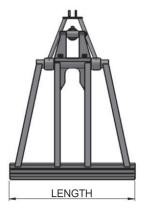
SGK BRICK CLAMP K-LINE

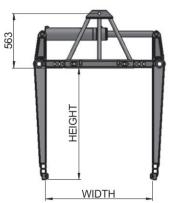
SGK brick clamp is suitable for all palletized and non-palletized construction materials.

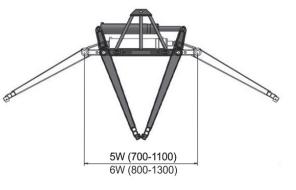
Capacity 4.500 kg | Max. working pressure: 200 bar | Non return valve prevents loss of clamping force | 2 hoses with 1/2" quick release couplings | Low own weight due to the use of high tensile steel | Easy width adjustment | Several options available for clamping rail | Stand up bracket for easy "parking" | Height reduction due to the possibility of À at stowing | Cylinder RAL1023, Clamp RAL900

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Part Number	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve +
		(,	()	()	(Manometer (V)
85997300	SGK L1000-H1150-5W-0-0	700 – 1100	1000	1150	390	no	no
85997310	SGK L1000-H1150-5W-P-0	700 – 1100	1000	1150	400	yes	no
85997320	SGK L1000-H1150-5W-0-V	700 – 1100	1000	1150	390	no	yes
85997330	SGK L1000-H1150-5W-P-V	700 - 1100	1000	1150	400	yes	yes
85997340	SGK L1000-H1150-6W-0-0	800 – 1300	1000	1150	400	no	no
85997350	SGK L1000-H1150-6W-P-0	800 – 1300	1000	1150	410	yes	no
85997360	SGK L1000-H1150-6W-0-V	800 – 1300	1000	1150	400	no	yes
85997070	SGK L1000-H1150-6W-P-V	800 – 1300	1000	1150	410	yes	yes
85997400	SGK L1200-H1150-5W-0-0	700 – 1100	1200	1150	400	no	no
85997410	SGK L1200-H1150-5W-P-0	700 – 1100	1200	1150	410	yes	no
85997420	SGK L1200-H1150-5W-0-V	700 – 1100	1200	1150	400	no	yes
85997430	SGK L1200-H1150-5W-P-V	700 – 1100	1200	1150	410	yes	yes
85997440	SGK L1200-H1150-6W-0-0	800 – 1300	1200	1150	410	no	no
85997450	SGK L1200-H1150-6W-P-0	800 – 1300	1200	1150	420	yes	no
85997460	SGK L1200-H1150-6W-0-V	800 – 1300	1200	1150	410	no	yes
85997470	SGK L1200-H1150-6W-P-V	800 – 1300	1200	1150	420	yes	yes
85997500	SGK L1300-H1150-5W-0-0	700 – 1100	1300	1150	410	no	no
85997510	SGK L1300-H1150-5W-P-0	700 – 1100	1300	1150	420	yes	no
85997520	SGK L1300-H1150-5W-0-V	700 – 1100	1300	1150	410	no	yes
85997530	SGK L1300-H1150-5W-P-V	700 – 1100	1300	1150	420	yes	yes
85997540	SGK L1300-H1150-6W-0-0	800 – 1300	1300	1150	420	no	no
85997550	SGK L1300-H1150-6W-P-0	800 – 1300	1300	1150	430	yes	no
85997560	SGK L1300-H1150-6W-0-V	800 - 1300	1300	1150	420	no	yes
85997570	SGK L1300-H1150-6W-P-V	800 – 1300	1300	1150	430	yes	yes

Technical drawings







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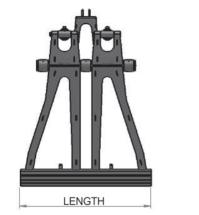
DECO BRICK CLAMP K-LINE

DECO brick clamp is suitable for all palletized and non-palletized construction materials.

Capacity 5.500 kg | Max. working pressure: 140 bar | Non return valve prevents loss of clamping force | 2 hoses with 1/2" quick release couplings | Low own weight due to the use of high tensile steel | Easy width adjustment | Several options available for clamping rail | Stand up bracket for easy "parking" | Height reduction due to the possibility of À at stowing | Cylinder RAL1023, Clamp RAL9005

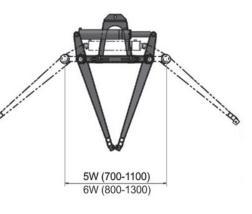
Part Number	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (p)	Relief valve + Manometer (v)
85997800	DECO L1000-H1150-5W-0-V	700 – 1100	1000	1150	465	no	yes
85997810	DECO L1000-H1150-5W-P-V	700 – 1100	1000	1150	495	yes	yes
85997840	DECO L1000-H1150-6W-0-V	800 – 1300	1000	1150	480	no	yes
85997850	DECO L1000-H1150-6W-P-V	800 – 1300	1000	1150	510	yes	yes
85997900	DECO L1200-H1150-5W-0-V	700 – 1100	1200	1150	475	no	yes
85997910	DECO L1200-H1150-5W-P-V	700 – 1100	1200	1150	505	yes	yes
85997940	DECO L1200-H1150-6W-0-V	800 – 1300	1200	1150	490	no	yes
85997950	DECO L1200-H1150-6W-P-V	800 – 1300	1200	1150	520	yes	yes
85998000	DECO L1300-H1150-5W-0-V	700 – 1100	1300	1150	480	no	yes
85998010	DECO L1300-H1150-5W-P-V	700 – 1100	1300	1150	510	yes	yes
85998040	DECO L1300-H1150-6W-0-V	800 – 1300	1300	1150	505	no	yes
85998050	DECO L1300-H1150-6W-P-V	800 – 1300	1300	1150	535	yes	yes

Technical drawings





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HYVA PALLET FORK K-LINE

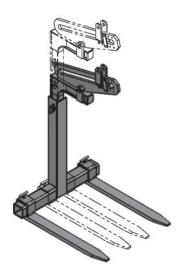
Hyva 2.5 T and 3.3 T pallet fork is suitable for safely loading and unloading palletized materials.

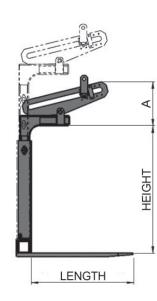
Capacity 2.500 kg & 3.300 kg | Low own weight due to the use of high tensile steel | Easy adjustable center of gravity by balancer | Easy width adjustment: 220 mm to 900 mm | Hook height adjustable in 3 positions | Load center of gravity: 600 mm | Stand up bracket for easy "parking" | Height reduction due to the possibility of À at stowing | Pallet fork: RAL9005.

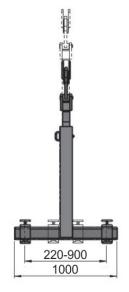


Part Number	Description	Width (mm)	Length (mm)	Fork dimensions (mm)	A (mm)	Height (mm)	Weight (kg)
85991100	PALLET HOOK 2.5T STD L=0800	1000	800	100x35x800	429	1250-1500-1750	195
85991200	PALLET HOOK 2.5T STD L=1000	1000	1000	100x35x1000	429	1250-1500-1750	200
85991300	PALLET HOOK 2.5T STD L=1150	1000	1150	100x35x1150	429	1250-1500-1750	205
85991400	PALLET HOOK 3.3T STD L=1150	1000	1150	100x35x1150	429	1250-1500-1750	250
85999160	EXTRA SET FORKS, 650X80X35	100	650	80x35x600	449	NVT	NVT
85999170	EXTRA SET FORKS, 1150X100X35	100	1150	100x35x1150	449	NVT	NVT

Technical drawings









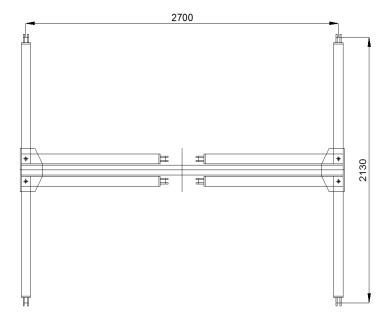
CAR LIFTING



LIFTING CROSS 5000 KG

Hyva lifting cross with a maximum capacity of 5000 kg Capable of lifting even the largest MPV's







Adjustable wheel clamps with adjustable lifting ropes.

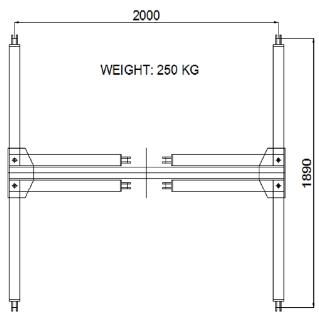


The balance of the lifting cross can be hydraulically adjusted.

LIFTING CROSS 4000 KG

Hyva lifting cross with a maximum capacity of 4000 kg Capable of lifting even the largest MPV's







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Adjustable wheel clamps with adjustable lifting ropes.

For wheel up to 18"and 235mm width. Payload of wheel clamps and lifting ropes up to 1200kg each.



The balance of the lifting cross can be hydraulically adjusted.

Part Number	Description	Weight (Ton)
700008	MANUAL CAR BALANCE, STROKE 300MM	2
7000012	HYDRAULIC CAR BALANCE, STROKE 300MM	2
7000013	HYDRAULIC CAR BALANCE, STROKE 550MM	2
7000025	HYDRAULIC CAR BALANCE	2.5
7000022	HYDRAULIC CAR BALANCE	3.5





OTHER LIFTING ACCESSORIES





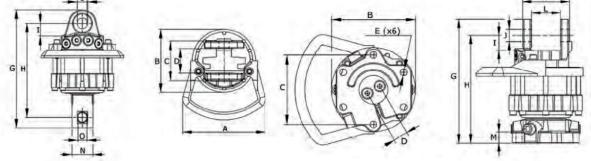






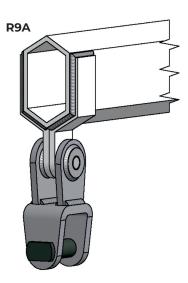
Hyva Part No.	Description
700009	NR. 2 NYLON BANDS
7000020	HYDRAULIC ROTATOR
7000024	CONNECTING HOOK (BOOM - ROTATOR OR CAR BALANCE)
7000010	NR.4 WHEELS ATTACHMENT 2/2,5TON
7000023	NR.4 WHEELS ATTACHMENT 3,5TON

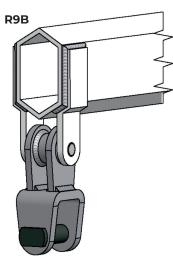
Hyva Part No. Description 7000032 HYDRAULIC ROTATOR, CAPACITY: 3TON-GV3F(**) 7000033 HYDRAULIC ROTATOR, CAPACITY: 4.5TON-GV4F(**)



Model	Weight (Kg)	Pressure (bar)	Lifting (kg)	Torque nm-bar	Flow rate i/min					Dime	nsions	5			
						А	ВØ	С	D	ЕØ	G	Н	I	JØ	K
GV3 F	24	200	3000	950	10	211	162	140	28	17	272	237	36	25	75
GV4 F	34	200	4500	1150	12	212	190	140	34	17	303	253	36	25	75

Hyva Part No.	Description
7000030	CONNECTING HOOK R9A (!)
7000031	CONNECTING HOOK R9B (!)





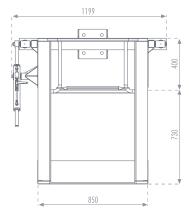
Notes: (*) In case of hydraulic lifting beam. It is necessary to add 1 extra function (**) In case of hydraulic rotator. It is necessary to add 1 extra function (!) Connecting hook is recommended when rotator is requested

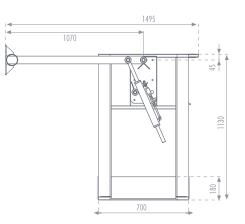


BASKETS AND PLATFORMS

STEEL 1 MAN BASKET





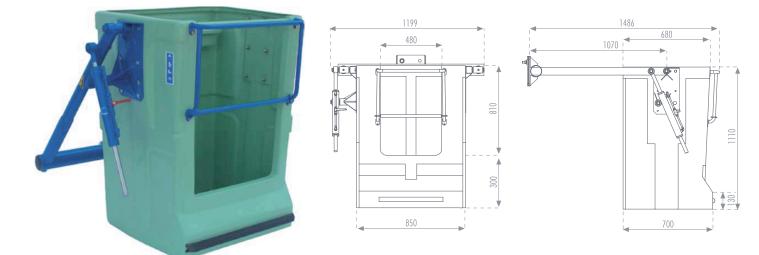


Hyva Part No. Description

7880044

1 man steel basket with insulating plate, self balanced, Capacity: 120kg

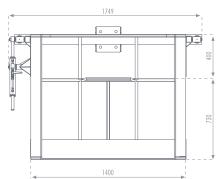
FIBERGLASS 1 MAN BASKET

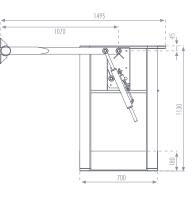


Hyva Part No.	Description
7880040	1 man fiberglass basket with insulating plate, self balanced, Capacity: 120kg

STEEL 2 MEN BASKET

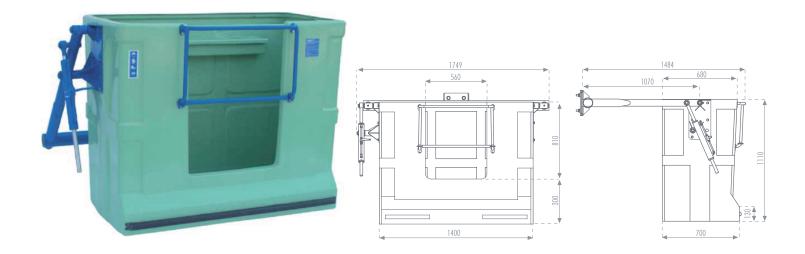






Hyva Part No.	Description
7880094	2 men steel basket with insulating plate, self balanced, Capacity: 200kg

FIBERGLASS 2 MAN BASKET



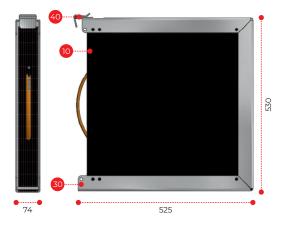
Hyva Part No.	Description
7880041	2 men fiberglass basket with insulating plate, self balanced, Capacity: 200kg



STABILIZER PADS

PREMIUM LINE WITH STAINLESS STEEL BRACKETS

L094-01 (1X STAB.PAD + SUPPORT 50X50X6 SINGLE)



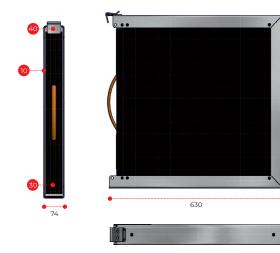
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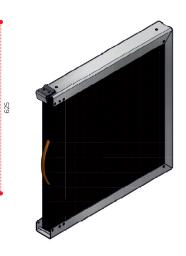


.4			
Hyva Part No.	ltem	Qty	Description
03490017	10	1	Stabilizer Pad-500x500x60
09216115	30	1	Support for Crane Stabliliser Plate 500x500x50-60
09216113	40	1	Locking-Assembly

L094-02 (1X STAB.PAD + SUPPORT 60X60X6 SINGLE)

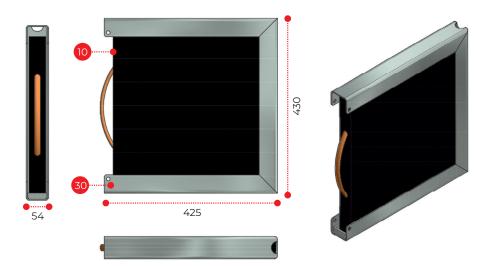
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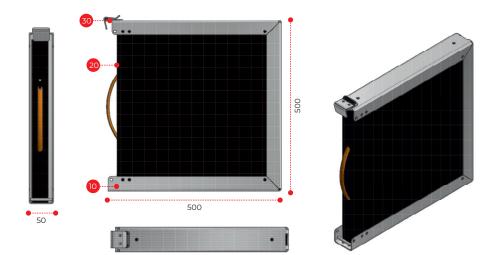
Hyva Part No.	ltem	Qty	Description	
03490020	10	1	abilizer Pad-600x600x60	
09216116	30	1	Support for Crane Stabliliser Plate 600x600x50-60	
09216113	40	1	Locking for STB.Plate holder	

L094-03 (1X STAB.PAD + SUPPORT 40X40X4 SINGLE)



Hyva Part No.	ltem	Qty	Description	
03490010	10	1	Stabilizer Pad-400x400x40	
09216114	30	1	Support for Crane Stabliliser Plate 400x400x40	

L094-04 (1X STAB.PAD + SUPPORT 50X50X5 SINGLE)



Hyva Part No.	ltem	Qty	Description	
03490016	10	1	abilizer Pad-500x500x50	
09216115	20	1	Support for Crane Stabliliser Plate 500x500x50-60	
09216113	30	1	Locking-Assembly	

Hyva Part No.	Description	
03490023	STABILIZER PADS SQUARE 70x70x6 CM	



STANDARD LINE



Each outrigger pad is already equipped with the hand plastic rope protection for easy and safe transport.

Hyva Part No.	Description	Dimensions	Weight (kg)	Max. Load (T)	Suggested Range (T/m)
V7885757	STAB OUTRIGGER 300X300X30	300X300X30	2.5	11	12
V7883501	STAB OUTRIGGER 300X300X40	300X300X40	3.5	13	18
V7885758	STAB OUTRIGGER 400X400X40	400X400X40	6	17	20
V7883502	STAB OUTRIGGER 400X400X50	400X400X50	8	19	25
V7885759	STAB OUTRIGGER 500X500X40	500X500X40	10	24	30
V7885760	STAB OUTRIGGER 500X500X50	500X500X50	12.5	29	50
V7883503	STAB OUTRIGGER 500X500X60	500X500X60	15	31	60
V7885761	STAB OUTRIGGER 600X600X40	600X600X40	14.4	34	40
V7885762	STAB OUTRIGGER 600X600X50	600X600X50	18	36	90
V7883504	STAB OUTRIGGER 600X600X60	600X600X60	21	41	100
V7883505	STAB OUTRIGGER 700X700X60	700X700X60	29	43	110
V7885763	STAB OUTRIGGER 800X800X50	800X800X50	32	47	120
V7883506	STAB OUTRIGGER 800X800X60	800X800X60	38	50	150
V7885764	STAB OUTRIGGER 1000X1000X50	1000X1000X50	48	58	160
V7885765	STAB OUTRIGGER 1000X1000X60	1000X1000X60	58	72	180
V7885766	STAB OUTRIGGER 1000X1000X80	1000X1000X80	78	115	200
V7885767	STAB OUTRIGGER 1200X1200X80	1200X1200X80	115	144	250

Each pad holder can held n.2 of outrigger pads.

Hyva Part No.	Description	Dimensions	Weight (kg)
V7883515	PAD HOLDING 300X300	300X300	3
V7883514	PAD HOLDING 400X400	400X400	4.5
V7883212	PAD HOLDING 500X500	500X500	4
V7883211	PAD HOLDING 600X600	600X600	5
V7883213	PAD HOLDING 700X700	700X700	6
V7883214	PAD HOLDING 800X800	800X800	7
V7883282	PAD HOLDING 1000X1000	1000X1000	9
V7883283	PAD HOLDING 1200X1200	1200X1200	12









Tipping Solutions | Container Handling | Waste Handling | Cranes

110 countries
+3,500 employees
20,000 customers
+30 subsidiaries
12 production facilities

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Founded in 1979 in the Netherlands, the company has a global presence with more than 30 wholly owned subsidiaries, extraordinary service coverage and 12 manufacturing facilities in Brazil, China, Europe and India.

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