

GRABS AND ROTATORS ATTACHMENTS FOR TRUCK MOUNTED CRANE



HYVA[®]

CRANE ATTACHMENTS

BY



Brick Stack Grapple
H 332



Pallet Fork
H 415



Orange Peel Grapple
H 650



Clamshell Bucket
H 604HPX



Small Volume Clamshell Bucket
H 626HPX



Rock Grapple
H 613HPX



Timber Grapple
H 632HPX



Hay and Forestry Grapple
H 641HPX



Barrier Lifter
H 932MB



Universal Grapple for Z-Cranes
H 930



Pole Grapple
H 930-1000 Special



Hyva Premium Brick Clamp
K-Line

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→ For further information on HYVA products please visit our website www.hyva.com

HYVA ROTATOR LINE

PRODUCT FEATURES

HYVA Rotators

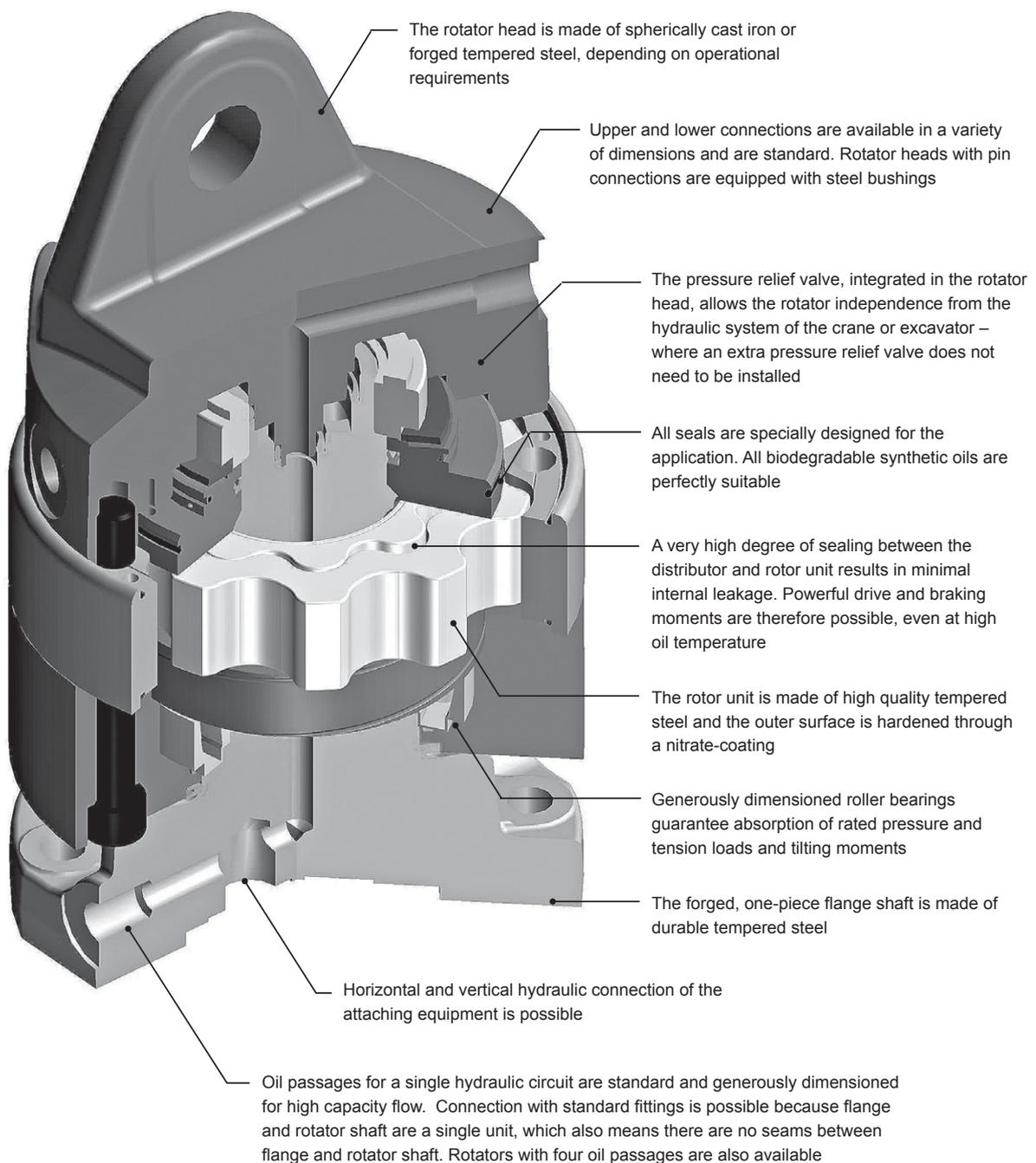
Years of experience in designing rotators and hydraulic load handling equipment guarantee high efficiency, long lasting rotators, specially tailored to meet your requirements.

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.



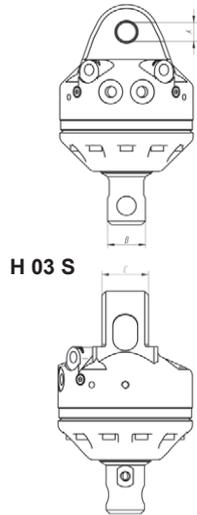
Features



HYVA ROTATOR LINE

PRODUCT RANGE

Gear Type Rotator with Shaft up to 3000 kg Load Capacity (incl. Fittings)



H 03 S

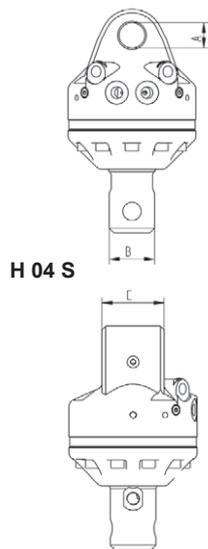
Type	Load capacity	Shaft Ø	Upper connection (Width x Pin-Ø)	Torque	Moment of deflection max.	Self weight
H 03 S	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
H 03 S	3000	49.5	60 x 25	450	1750	24



H 03 S

Operating pressure: **32 MPa (320 bar)**
 Pump capacity: 25 to 60 l/min
 Upper hydraulic coupling: G 3/8"
 Lower hydraulic coupling: G 1/4"

Gear Type Rotator with Shaft up to 4500 kg Load Capacity (incl. Fittings)



H 04 S

Type	Load capacity	Shaft Ø B	Upper connection (Width C x Pin-Ø)	Torque	Moment of deflection max.	Self weight
	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
H 04 S59-30	4500	59	84 x 30	850	3000	26
H 04 S	4500	62	84 x 30	850	3000	26
H 04 S63-30	4500	63	84 x 30	850	3000	26
H 04 S68-30	4500	68	84 x 30	850	3000	26
H 04 S68-30US*	4500	68	84 x 30	1000	4500	28
H 04 S69-30	4500	69	84 x 30	850	3000	26

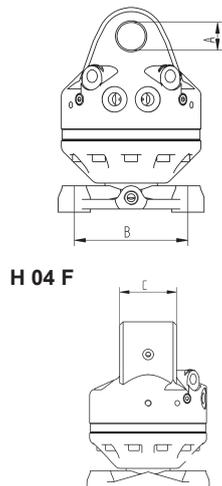


H 04 S69-30

* steel motor-head

Operating pressure: **32 MPa (320 bar)**
 Pump capacity: 25 to 60 l/min
 Hydraulic couplings: M 18 x 1,5

Gear Type Rotator with Flange up to 4500 kg Load Capacity (incl. Fittings)



H 04 F

Type	Load capacity	Hole pattern of flange B	Upper connection (Width C x Pin-Ø)	Torque	Moment of deflection max.	Self weight
	(kg)	(mm)	(mm)	(Nm)	(Nm)	(kg)
H 04 F	4500	□ 140	84 x 30	850	3000	26
H 04 F140-30US*	4500	□ 140	84 x 30	1000	8500	31
H 04 F140-30V**	4500	□ 140	84 x 30	850	3000	26



H 04 F

* steel motor-head
 **additional vertical connection for the drive unit

Operating pressure: **32 MPa (320 bar)**
 Pump capacity: 25 to 60 l/min
 Hydraulic couplings: M 18 x 1,5

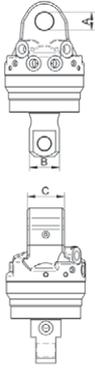


H 04 F140-30US

HYVA ROTATOR LINE

PRODUCT RANGE

Gear Type Rotator with Shaft up to 6000 kg Load Capacity (incl. Fittings)

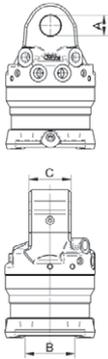


Type	Load capacity (kg)	Shaft Ø B (mm)	Upper connection (Width C x Pin-Ø A) (mm)	Torque (Nm)	Moment of deflection max. (Nm)	Self weight (kg)
H 06 S68-40	6000	68	84 x 40	1000	4500	32
H 06 S69-40	6000	69	84 x 40	1000	4500	32

Operating pressure: 32 MPa (320 bar)
 Pump capacity: 25 to 75 l/min
 Hydraulic couplings – in: G 1/2''
 Hydraulic couplings – out: M 18 x 1,5



Gear Type Rotator with Flange up to 6000 kg Load Capacity (incl. Fittings)

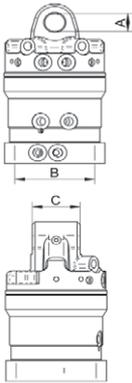


Type	Load capacity (kg)	Hole pattern of flange B (mm)	Upper connection (Width C x Pin-Ø A) (mm)	Torque (Nm)	Moment of deflection max. (Nm)	Self weight (kg)
H 06 F140-40	6000	□ 140	84 x 40	1000	8500	34

Operating pressure: 32 MPa (320 bar)
 Pump capacity: 25 to 75 l/min
 Hydraulic couplings – in: G 1/2''
 Hydraulic couplings – out: M 18 x 1,5



Gear Type Rotator with Flange and 4 Oil Ducts to operate 2 different Functions (incl. Fittings)



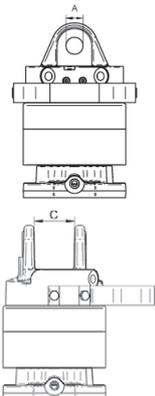
Type	Load capacity (kg)	Hole pattern of flange B (mm)	Upper connection (Width C x Pin-Ø A) (mm)	Torque (Nm)	Moment of deflection max. (Nm)	Self weight (kg)
H 04 F140-30-4	4500	□ 140	84 x 30	850	3000	40
H 06 F173-35-4	6000	Ø 173	81 x 35	1000	8500	45
H 10 F173-35/2-4	10000	Ø 173	81 x 35	2000	12000	72

Operating pressure: H 04 F140-30-4 32 MPa (320 bar) H 06 F173-35-4 32 MPa (320 bar) H 10 F173-35/2-4 32 MPa (320 bar)
 Pump capacity: H 04 F140-30-4 25 to 50 l/min H 06 F173-35-4 25 to 75 l/min H 10 F173-35/2-4 26 to 75 l/min
 Hydraulic couplings: H 04 F140-30-4 M 18 x 1,5 H 06 F173-35-4 G 1/2'' H 10 F173-35/2-4 G 1/2'' and G 3/4''

H 04 F140-30-4

H 04 F140-30-4

Gear Type Rotator with Flange for Logging (incl. Hose Guard and Fittings)



Type	Load capacity (kg)	Hole pattern of flange B (mm)	Upper connection (Width C x Pin-Ø A) (mm)	Torque (Nm)	Moment of deflection max. (Nm)	Self weight (kg)
H 06 F173-35	6000	Ø 173	81 x 35	1000	8500	45
H 10 F173-35/1	10000	Ø 173	81 x 35	2000	12000	62
H 10 F173-35/2	10000	Ø 173	81 x 35	2000	12000	65
H 10 F173-45	10000	Ø 173	100 x 45	2000	12000	68
H 10 F173-52	10000	Ø 173	136 x 52,2	2000	12000	70

Operating pressure: 32 MPa (320 bar)
 Pump capacity: 25 to 75 l/min
 Hydraulic couplings: G 1/2''



H 10 F173-35/1

H 10 F173-35/1

HYVA ROTATOR LINE ACCESSORIES

H 501 – Upper Suspension between Rotator and Crane



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

Type	Load capacity (kg)	Self weight (approx. kg)
H 501 3000	up to 3000	5
H 501 4500	up to 4500	10
H 501 6000	up to 6000	15
H 501 10000	up to 10000	25

H 511 – Upper Suspension with Pendulum Damper between Rotator and Crane



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

Type	Load capacity (kg)	Self weight (approx. kg)
H 511 4500	up to 4500	15
H 511 6000	up to 6000	20
H 511 10000	up to 10000	30

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

Type	Self weight (approx. kg)
H 206 hose guard for the rotator	3

H 502 – Reduction Link between Rotator and Grapple



H 502

A reduction link adapts a shaft type rotator to an attachment with a standard hole pattern for a flange

Type	Load capacity (kg)	Self weight (approx. kg)
H 502 3000	up to 3000	2
H 502 4500	up to 4500	3
H 502 6000	up to 6000	4

H 502-FL

H 502-AD

Accessories for Attaching Pallet Forks etc.



H 460 03

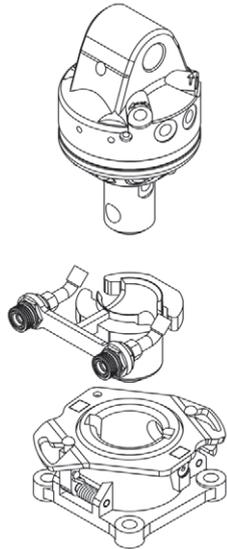


H 460 04

Type	Description	Type of rotator	Weight (kg, approx.)
H 460 03 H 03 S	rigid suspension link with pin for all shaft rotators	H 03	8
H 460 03 H 04 S		H 04	10
H 460 08 H 03 S	rigid hook for all shaft rotators	H 03	8
H 460 08 H 04 S		H 04	9
H 460 04 H 04 S	non-rotating swinging hook for all shaft rotators	H 04	12
H 460 04 H 06 S		H 06	15
H 460 10	non-rotating swinging hook for all flange rotators	H 10 F173 (H 04 to H 10)	25

HYVA ROTATOR LINE ACCESSORIES

H 505 – Quick Change System for Shaft-Type Rotators



The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect quick couplings and disengage the locking device manually. Upper elements of the quick change system are available for all HYVA 4t-shaft rotators. With a minimum down-time you can change between e.g. pallet fork and brick stack grapple. For heavy duty works we recommend the quick change system H 505 HD in combination with the rotator H 05 S68-30US or H 06 S68-40.

Type	Description	Hole pattern of flange (mm)	Self weight (kg)
H 505	complete, incl. hydraulic couplings (H 204 01)	4x Ø18 / □ 140	12
H 505 01	upper element fitted to rotator incl. 2 mobile parts		5
H 204 01	mobile part of hydraulic quick coupling (2 pieces) for H 505 01		
H 505 02	lower element mounted onto attachment	4x Ø18 / □ 140	7
H 505 03	rigid suspension link with non-rotating hook to connect to the H 505 01		7



H 505 01



H 505 02



H 505 03

H 505 HD – Heavy Duty Quick Change System for Shaft-Type Rotators



The quick change system enables an easy exchange between different attachments. The mechanical coupling and locking is achieved by the turning motion of the rotator. You simply disconnect quick couplings and disengage the locking device manually. Upper elements of the quick change system H 505 HD are available for the HYVA shaft rotators H 05 S68-30US or H 06 S68-40. With a minimum down-time you can change between e.g. pallet fork and brick stack grapple. For heavy duty works we recommend the quick change system H 505 HD in combination with the rotator H 05 S68-30US or H 06 S68-40.

Type	Description	Hole pattern of flange (mm)	Self weight (kg)
H 505 HD	complete, incl. hydraulic couplings (H 204 01)	4x Ø18 / □ 140	18
H 505 01 HD	upper element HD fitted to rotator incl. 2 mobile parts		7
H 204 01	mobile part of hydraulic quick coupling (2 pieces) for H 505 01 HD		
H 505 02 HD	lower element HD mounted onto attachment	4x Ø18 / □ 140	11
H 505 03 HD	rigid suspension link with non-rotating hook to connect to the H 505 01 HD		14



H 505 01 HD

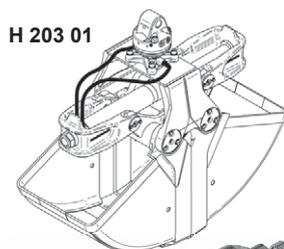


H 505 02 HD



H 505 03 HD

H 203 – Connecting Hoses & H 204 – Hydraulic Quick Change Kit for Hoses



Type	Description
H 203 01	short connecting hoses between rotator and attachment with standard fittings M 18 x 1,5 (2 pieces)
H 203 03	long connecting hoses between rotator and crane – please specify dimensions (4 pieces)

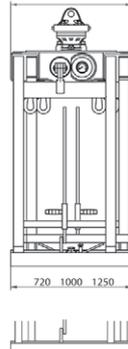
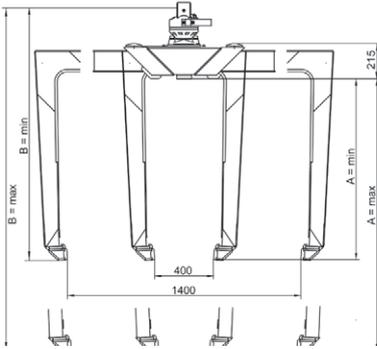
H 204 01	mobile part of hydraulic quick coupling for hose (Ø 10 mm, 2 pieces)
H 204 02	fixed part of hydraulic quick coupling for rotator (Ø 10 mm, 2 pieces)
H 204 03	hydraulic quick change kit incl. mobile and fixed parts (2 pieces each) mounted with adapters to rotator

HYVA BRICK STACK GRAPPLE PARALLEL SQUEEZE

Hyva

Type:

H 332(V) / H 333(V)



General Information

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.



Package Brick Stack Grapples H 332 c

Type	Plunge depth A	Load capacity at min./max. plunge depth	Gripping min./max.	Height (incl. rotator)	Self weight
	(mm)	(kg)	(mm)	(mm)	(kg)
H 332-1000 c	1000	2000	400 – 1400	1415	310
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 (rotator to grapple), upper suspension H 501 4500, compression rails H 381 29 1000 (length 1000 mm), pressure relief valve, non-return 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 kind of banding)
 - the capacity listed does not apply to stacks of low-profile and unbanded items. Compression Rails will be H 381 39 for packages in the UK
 - other packages with different opening ranges available: H 332-850c/ -1000c/ -1100c/ -1200/ -1300c in the UK

Brick Stack Grapple H 332/333 (w/o compression rails)

Type	Plunge depth A	Load capacity at min./max. plunge depth	Gripping min./max.	Height (w/o rotator)	Self weight (w/o compression rails)
	(mm)	(kg)	(mm)	(mm)	(kg)
H 332-850	850	2200	400 – 1400	1065	245
H 332-1000	1000	2000	400 – 1400	1215	255
H 332-1300	1300	1600	400 – 1400	1515	275
H 332V-850	850 – 1400	2200 / 1600	400 – 1400	1065 – 1615	290
H 332V-1100	1100 – 1650	1900 / 1350	400 – 1400	1315 – 1865	340
H 333-850	850	3000	400 – 1400	1090	400
H 333-1000	1000	2500	400 – 1400	1240	415
H 333V-1100	1100 – 1650	2300 / 1600	400 – 1400	1340 – 1890	490

- 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
 - wider opening ranges 400 – 1800 mm are available for
 - H 332
 - H 333

Accessories

H 04 F	recommended rotator for H 332/333
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Requirements of Truck Crane

Operating pressure:	20 to 32 MPa (200 to 320 bar)
Pump capacity:	25 to 75 l/min

HYVA BRICK STACK GRAPPLE

ACCESSORIES

Compression Rails



H 381 29

Type	Description	Length (mm)	Self weight (kg)
H 381 29 720	compression rails with smooth rubber inserts (2 pieces)	720	17
H 381 29 1000		1000	24
H 381 29 1250		1250	28



H 381 39

H 381 39 720	compression rails with two rubber inserts, upper insert contoured, lower insert smooth (2 pieces each)	720	24
H 381 39 900		900	28
H 381 39 1000		1000	33
H 381 39 1100		1100	38
H 381 39 1200		1200	40
H 381 39 1250		1250	42
H 381 39 1400	1400	44	



H 381 32

H 381 32 1000	spring loaded rails with parallel-action teeth (2 pieces) - fitted in seconds by locking lever	1000	62
H 381 32 1250		1250	76



H 381 09

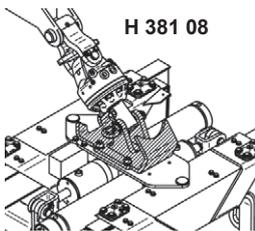
H 381 09 720	compression rails for adapter H 381 38 (2 pieces)	720	17
H 381 09 1000		1000	23
H 381 09 1250		1250	28

H 381 38	Adapter for clamping arms to take compression rails H 381 09		40
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Please note: Additional lengths of compression rails are available on request.

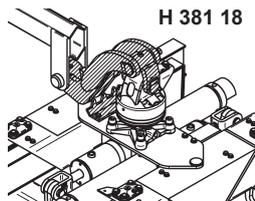
Others

Type	Description	Self weight (kg)
Non-Standard Opening Range: all grapples are available with opening ranges not listed. Call for details.		
Non-Standard Plunge Depth: all grapples are available with plunge depth not listed. Call for details.		



H 381 08

H 381 08	Tilting Device to reduce overall height of the equipment in transport	for shaft rotators	12
		for flange rotators	18



H 381 18

H 381 18	Height Reduction Link to reduce the overall height of the equipment in transport - for flange rotators.	15
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H 381 31

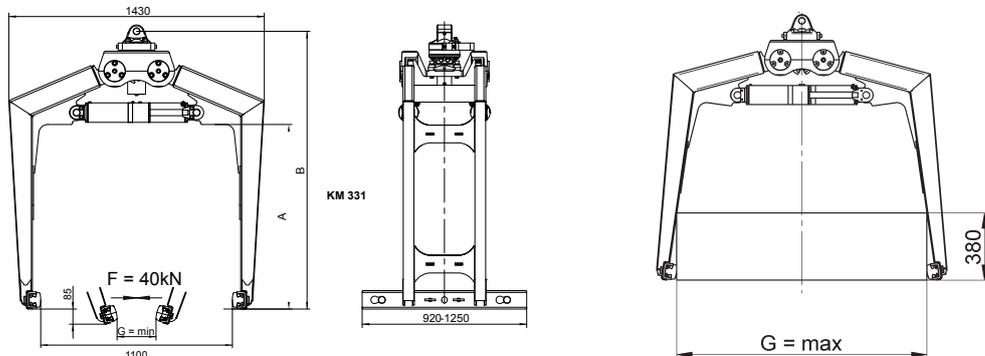
H 381 05	Height Stop for quick adjustment of plunge depth	8
H 381 06	Spring Loaded Guide Rails for stabilizing the top layer of the stack	
H 381 07	Spring Loaded Guide Plates for lateral stabilizing of the stack	
H 381 31	Adapter for Concrete Pipes with diameters from 800 to 1350 mm	60

HYVA BRICK STACK GRAPPLE SCISSOR GRAB

Hyva

Type:

H 331



General Information

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 non-return 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.



Package Brick Stack Grapple H 331 c

Type	Plunge depth A (mm)	Load capacity (kg)	Gripping min./max. G (mm)	Height B (mm)	Self weight (kg)
H 331-1000 c	1000	2000	220 – 1420	1565	315
H 331-1100 c	1100	2000	160 – 1450	1665	320
H 331-1200 c	1200	1800	98 – 1475	1765	325
H 331-1300 c	1300	1600	40 -1500	1865	330

Package consists of: brick stack grapple, HYVA rotator H 04 F, short connecting hoses H 203 01 (rotator to grapple), upper suspension H 501, compression rails H 381 40 (length 1000 mm), pressure relief valve, non-return 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 A is only suitable up to opening range of 1100 mm (see Technical Drawings)

Accessories

Type	Description	Self weight (kg)
H 511 4500	upper suspension with pendulum damper	15
H 381 40 720	compression rails – 720 mm (2 pieces)	29
H 381 40 920	compression rails – 920 mm (2 pieces)	37
H 381 40 1000	compression rails – 1000 mm (2 pieces)	40
H 381 40 1120	compression rails – 1120 mm (2 pieces)	45
H 381 40 1250	compression rails – 1250 mm (2 pieces)	52
H 381 40 1400	compression rails – 1400 mm (2 pieces)	58
H 685 06 hook set 4	lifting hooks with safety latches (4 pieces)	
	non-standard compression rails: all grapples are available with compression rail lengths not listed. Call for details	
	non-standard plunge depth: all grapples are available with plunge depths not listed. Call for details	
	alternatively with gear type rotator with shaft	

Requirements of Truck Crane

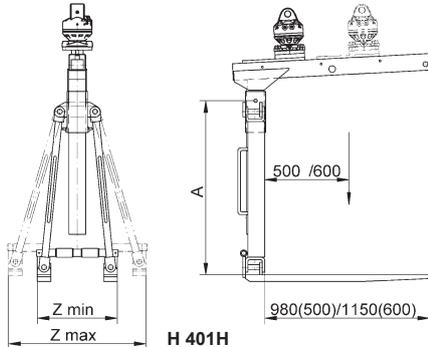
Operating pressure: 20 to 32 MPa (200 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA PALLET FORK HYDRAULIC/MECHANICAL CENTER OF GRAVITY ADJUSTMENT & ADJUSTABLE TINES WITH SPINDLE

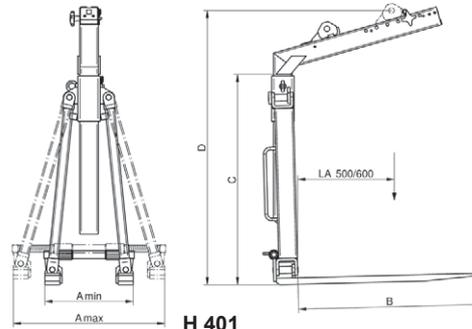
Hyva

Type:

H 401H / H 401



H 401H



H 401

Please note: a protection trellis or net is mandatory for loose material (EN 13255)

General Information

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

- **Efficient handling** of many different kinds of loads in an economic, one-man operation is possible due to the hydraulic shifting of the H 401H. It saves you time and money.
- **H 401H: 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 approx. 475 mm to max. 850 mm adjustable with a smooth running, stainless spindle.
- **Easy to use** due to the dimensions of the H 401H. Since no part of the H 401H 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.



H 401H

Package Pallet Fork H 401H-1500 c

Type	Load capacity (kg)	Throat height A (mm)	Tine length (mm)	Tine spread Z (mm)	Tine dimensions (width x height) (mm)	Centre of gravity (mm)	Self weight (kg)
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 / H 401

Type	Load capacity (kg)	Throat height A (mm)	Tine length (mm)	Tine spread Z (mm)	Tine dimensions (width x height) (mm)	Centre of gravity (mm)	Self weight ¹⁾ (kg)
H 401H-1500-500	1500	1050 – 1650	980	475 – 815	80 x 35	500	150
H 401H-2000-500	2000	1050 – 1650	980	495 – 835	100 x 35	500	175
H 401H-2500-500	2500	1050 – 1650	980	490 – 830	90 x 40	500	230
H 401H-1500-600	1500	1050 – 1650	1150	495 – 835	100 x 35	600	180
H 401H-2000-600	2000	1050 – 1650	1150	500 – 840	90 x 40	600	230
H 401H-2500-600	2500	1050 – 1650	1150	510 – 850	100 x 45	600	250
H 401-1500-500	1500	1050 – 1650	980	475 – 815	80 x 35	500	130
H 401-2000-500	2000	1050 – 1650	980	495 – 835	100 x 35	500	150
H 401-2500-500	2500	1050 – 1650	980	490 – 830	90 x 40	500	210
H 401-3000-500	3000	1050 – 1650	980	510 – 850	100 x 45	500	225
H 401-1500-600	1500	1050 – 1650	1150	495 – 835	100 x 35	600	165
H 401-2000-600	2000	1050 – 1650	1150	500 – 840	90 x 40	600	205
H 401-2500-600	2500	1050 – 1650	1150	510 – 850	100 x 45	600	230

Package consists of: pallet fork, protection chain H 460 01 (H 401: 2 chain elements for suspension)

¹⁾ weight without rotator and protection chain

Accessories

H 04 F	recommended rotator for H 401H
H 04 S	shaft rotator – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotators
H 502 4500	reduction link between rotator and grapple

Requirements of Truck Crane

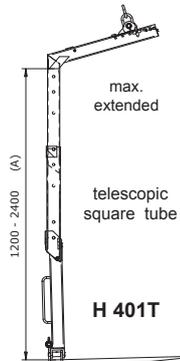
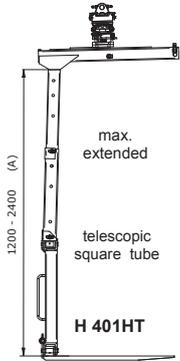
Operating pressure: max. 20 MPa (200 bar)
Pump capacity: 20 - 40 l/min

HYVA TELESCOPIC PALLET FORK HYDRAULIC/MECHANICAL CENTER OF GRAVITY ADJUSTMENT & ADJUSTABLE TINES WITH SPINDLE

Hyva

Type:

H 401HT / H 401T



Please note: a protection trellis or net is mandatory for loose material (EN 13255)

General Information

The efficient pallet fork H 401HT is based on the regular H 401H, but additionally features the possibility to extend to a height of up to 2500 mm. The same goes for the non-hydraulic version H 401T with spring loaded centre of gravity compensation.

- **Efficient handling** of many different kinds of loads in an economic, one-man operation is possible due to the automatic shifting of the H 401 to a preset position. Compression springs return slide to initial position.
- **Versatile height** from 1200 mm to 2500 mm adjustable with a lock pin.
- **Versatile width** of tines from approx. 475 mm to max. 850 mm adjustable with a smooth running, stainless spindle.
- **H 401HT: Precise positioning** of the loads is no problem in combination with the HYVA rotator – continuous rotation, precise start and braking ability.
- **Easy to use** due to the dimensions of the H 401. Since no part of the H 401 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 401HT / H 401T

Type	Load capacity (kg)	Throat height A (mm)	Tine length (mm)	Tine spread Z (mm)	Tine dimensions (width x height) (mm)	Centre of gravity (mm)	Self weight ¹⁾ (kg)
H 401HT-1500-500	1500	1200 – 2500	980	475 – 815	80 x 35	500	165
H 401HT-2000-500	2000	1200 – 2500	980	495 – 835	100 x 35	500	190
H 401HT-2500-500	2500	1200 – 2500	980	490 – 830	90 x 40	500	250
H 401HT-1500-600	1500	1200 – 2500	1150	495 – 835	100 x 35	600	195
H 401HT-2000-600	2000	1200 – 2500	1150	500 – 840	90 x 40	600	250
H 401HT-2500-600	2500	1200 – 2500	1150	510 – 850	100 x 45	600	270
H 401T-1500-500	1500	1200 – 2500	980	475 – 815	80 x 35	500	145
H 401T-2000-500	2000	1200 – 2500	980	495 – 835	100 x 35	500	165
H 401T-2500-500	2500	1200 – 2500	980	490 – 830	90 x 40	500	230
H 401T-3000-500	3000	1200 – 2500	980	510 – 850	100 x 45	500	245
H 401T-1500-600	1500	1200 – 2500	1150	495 – 835	100 x 35	600	180
H 401T-2000-600	2000	1200 – 2500	1150	500 – 840	90 x 40	600	225
H 401T-2500-600	2500	1200 – 2500	1150	510 – 850	100 x 45	600	250

Package consists of: pallet fork, protection chain H 460 01 (H 401T: 2 chain elements for suspension)

¹⁾ weight without rotator and protection chain

Accessories

H 04 F	recommended rotator for H 401HT
H 04 S	shaft rotator – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotators
H 502 4500	reduction link between rotator and grapple
H 460 03 H 04 S	rigid suspension link with pin for rotator H 04 S

Requirements of Truck Crane

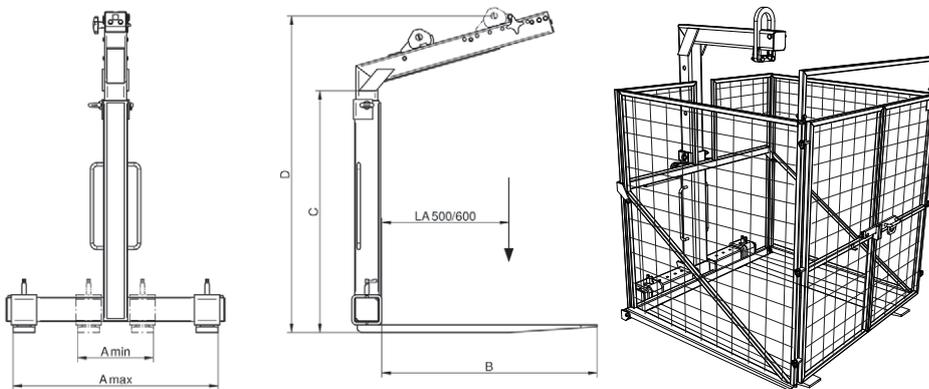
Operating pressure: max. 20 MPa (200 bar)
Pump capacity: 20 - 40 l/min

HYVA PALLET FORK SELF SHIFTING & TINES WITH LOCK PIN ADJUSTMENT

Hyva

Type:

H 415



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.

General Information

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 320 mm to 930 mm with a lock pin.



Pallet Fork H 415

Type	Load capacity (kg)	Throat height A (mm)	Tine length (mm)	Tine spread Z (mm)	Tine dimensions (width x height) (mm)	Centre of gravity (mm)	Self weight (w/o rotator) (kg)
H 415-1500-500	1500	1050 – 1650	980	325 – 920	80 x 35	500	135
H 415-2000-500	2000	1050 – 1650	980	345 – 940	100 x 35	500	155
H 415-2500-500	2500	1050 – 1650	980	355 – 945	90 x 40	500	180
H 415-3000-500	3000	1050 – 1650	980	385 – 975	100 x 45	500	215
H 415-1500-600	1500	1050 – 1650	1150	345 – 940	100 x 35	600	170
H 415-2000-600	2000	1050 – 1650	1150	355 – 945	90 x 40	600	200
H 415-2500-600	2500	1050 – 1650	1150	385 – 975	100 x 45	600	225
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: – Automatic compensation of centre of gravity functions with a min. pack weight of approx. 250 to 500 kg.

Accessories

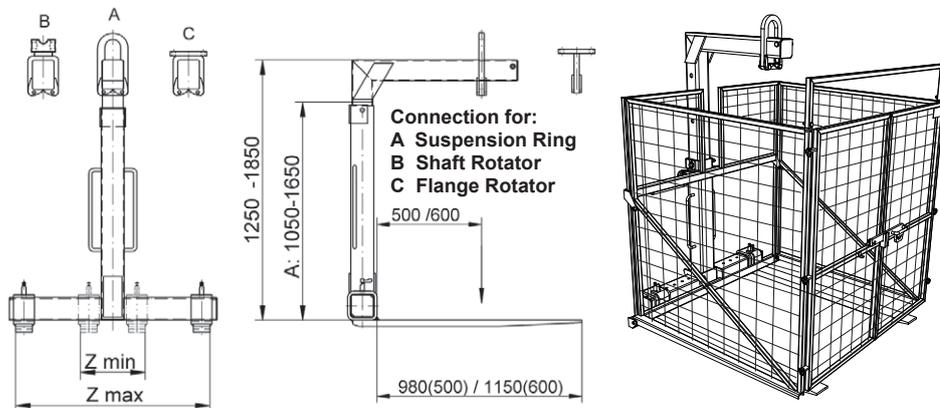
H 460 1100	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
H 460 1300	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm
H 04 S	shaft rotator – up to 4500 kg load capacity
H 460 03 H 04 S	rigid suspension link with pin for rotator H 04 S

HYVA PALLET FORK MANUAL SHIFTING & TINES WITH LOCK PIN ADJUSTMENT

Hyva

Type:

H 414



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

General Information

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.
- **Throat height adjustable in steps** from 1050 mm to 1650 mm with a lock pin.
- **Tine spread adjustable in steps** from 320 mm to 930 mm with a lock pin.



Pallet Fork H 414

Type	Load capacity (kg)	Throat height A (mm)	Tine length (mm)	Tine spread Z (mm)	Tine dimensions (width x height) (mm)	Centre of gravity (mm)	Self weight (w/o rotator) (kg)
H 414-1500-500	1500	1050 – 1650	980	325 – 920	80 x 35	500	125
H 414-2000-500	2000	1050 – 1650	980	345 – 940	100 x 35	500	140
H 414-2500-500	2500	1050 – 1650	980	355 – 945	90 x 40	500	165
H 414-3000-500	3000	1050 – 1650	980	385 – 975	100 x 45	500	200
H 414-1500-600	1500	1050 – 1650	1150	345 – 940	100 x 35	600	150
H 414-2000-600	2000	1050 – 1650	1150	355 – 945	90 x 40	600	195
H 414-2500-600	2500	1050 – 1650	1150	385 – 975	100 x 45	600	210
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

Accessories

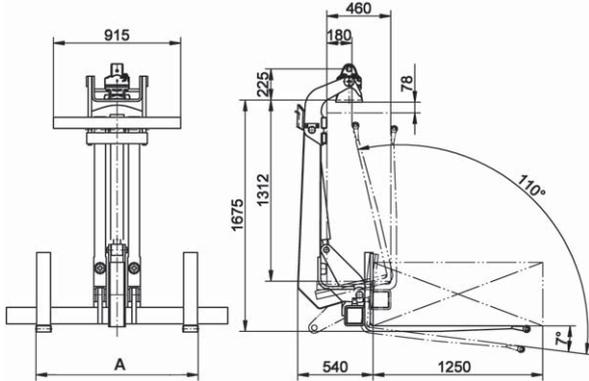
H 460 1100	protection trellis for loads up to 2000 kg – dimensions: 1100x1100x1500mm
H 460 1300	protection trellis for loads up to 2000 kg – dimensions: 1300x1300x1500mm
H 04 F	flange rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotators
H 502 4500	reduction link between rotator and grapple
H 460 04 H 04 S	non-rotating hook for rotator H 04 S

HYVA UNIVERSAL FORK

Hyva

Type:

H 461



General Information

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 640-1600 mm 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 HVY 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

Type	Load capacity (kg)	Tine spread A (mm)	max. Height of load (mm)	max. Depth of load (mm)	Self weight (kg)
H 461-1500 c	1500	640 – 1830	1250	460	410

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

Universal Fork H 461

Type	Load capacity (kg)	Tine spread A (mm)	max. Height of load (mm)	max. Depth of load (mm)	Self weight (kg)
H 461-800	800	600 – 1000	1250	460	280
H 461-1000	1000	640 – 1600	1250	460	340
H 461-1500/1600	1500	640 – 1600	1250	460	380
H 461-1500/1830	1500	640 – 1830	1250	460	390
H 461-1500/2130	1500	640 – 2130	1250	460	395
H 461-2000/1600	2000	640 – 1600	1250	460	390
H 461-2000/1830	2000	640 – 1830	1250	460	400
H 461-2000/2130	2000	640 – 2130	1250	460	405
H 461-2500/1600	2500	640 – 1600	1250	460	400
H 461-2500/1830	2500	640 – 1830	1250	460	410
H 461-2500/2130	2500	640 – 2130	1250	460	415

- Please note:**
- the max. dimensions of the load are 1250x460 mm (height x depth). The max. width of the load is depending on the tine spread
 - the Universal Fork H 461-800 is delivered with an integrated rack and an upper suspension for a HYVA shaft rotator
 - H 461A: the special version of the Universal Fork H 461-1500/1600 is delivered with a second suspension point on the main beam

Accessories

H 04 F	recommended rotator for KM 461 (for load capacity over 1000 kg)
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 505 + H 505 05*	quick change system for H 04 S (for load capacity over 1000 kg, not in combination with H 461-800)
H 505 HD + H 505 05*	HD quick change system for H 04 S68-30US (for l. c. over 1000 kg, not in combination with H 461-800)
H 502 4500	reduction link between rotator and grapple
H 461 08	adjustable clamping device to secure single sheets of smaller packs (for load capacity over 1000 kg)
H 461 09	rack for safe and easy handling of folded universal fork (for load capacity over 1000 kg)

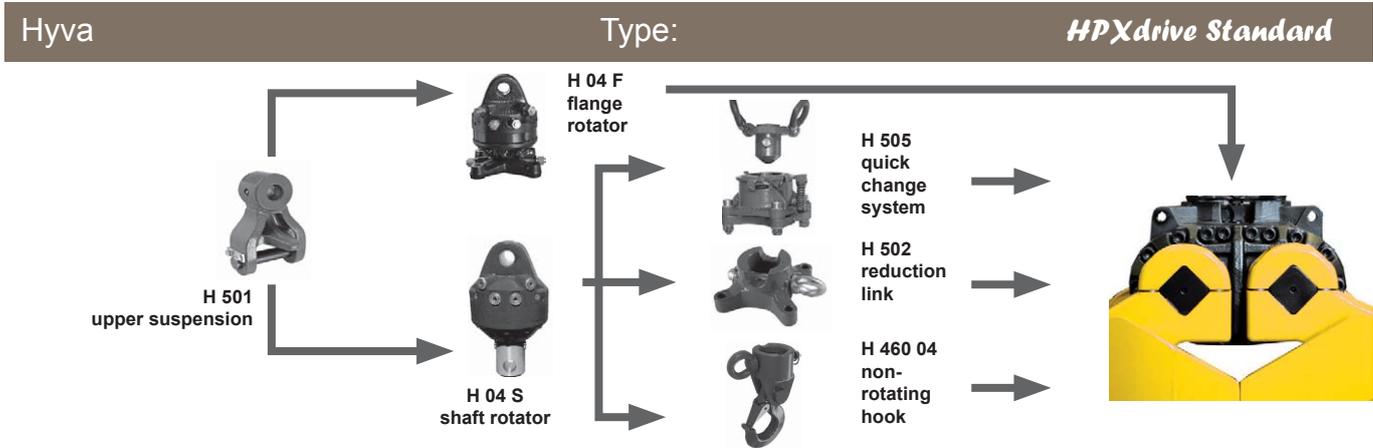
Requirements of Truck Crane

Operating pressure:
20 to 32 MPa
(200 – 320 bar)

Pump capacity:
40 to 75 l/min

* distance ring H 505 05
necessary in this combination

HYVA *HPXdrive Standard* 604 FOR DAILY ROUTINE JOBS



General Information

The *HPXdrive Standard* 604 as an allround unit is perfect for the daily routine jobs. The advantages of the *HPXdrive*-technology – the constant high closing force and the compact design – guarantee a long life and rentability.

The standard rotator of the *HPXdrive Standard* 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 either the quick change system H 505 or the reduction link H 502.



Technical Information *HPXdrive Standard*

Torque (at 26 MPa):	12000 Nm
Operating pressure:	26 to 32 MPa (approx. 260 to 320 bar)
Pump capacity:	25 to 75 l/min



<i>HPXdrive Standard</i> with Flange Rotator HPX-SD-04F-30V	
Package consists of:	upper suspension H 501 4500, rotator H 04 F140-30V, drive unit <i>HPXdrive Standard</i> with pressure relief valve and non-return valve
Self weight:	160 kg
Height:	480 mm



<i>HPXdrive Standard</i> /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 <i>HPXdrive Standard</i> with pressure relief valve and non-return valve
Self weight:	165 kg
Height:	535 mm



<i>HPXdrive Standard</i> /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 <i>HPXdrive Standard</i> 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

Please note: The drive unit *HPXdrive Standard* can only be used in combination with HYVA Rotator and HYVA Shells

HYVA *HPXdrive Standard* EXCHANGEABLE SHELLS

Hyva

Type: *HPXdrive Standard* Exchangeable Shells

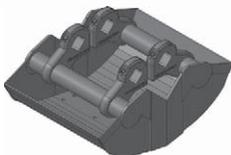
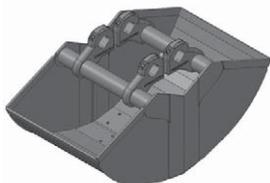


The bucket shells of the *HPXdrive Standard* are bolted to the shafts, and therefore it is very easy to replace them with another set of shells. Different types of shells for different applications can be refitted onto the driving unit, e.g. clamshell bucket, rock grapple, timber grapple, hay and forestry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

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

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

Technical Data



Type	Volume (litre)	Width (mm)	max. Opening (mm)	Number of teeth/tines	Self weight (kg)
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Shells for Clamshell Bucket – H 604HPX

H 604HPX-200S	200	400	1395	4	130
H 604HPX-250S	250	500	1395	4	145
H 604HPX-325S	325	600	1395	6	160
H 604HPX-350S	350	650	1395	6	165
H 604HPX-450S	450	800	1395	6	180

Shells for small Clamshell Bucket – H 626HPX

H 626HPX-95S	95	400	900	4	90
H 626HPX-100S	100	450	900	4	95
H 626HPX-150S	150	600	900	6	120

Shells for Clamshell Bucket with open shells – H 604U HPX

H 604U HPX-250S	250	570	1595	-	215
H 604U HPX-300S	300	670	1595	-	235
H 604U HPX-400S	400	820	1595	-	255
H 604U HPX-500S	500	1020	1595	-	285

Shells for Rock Grapple – H 613HPX

H 613HPX-0,16S	0,16 m ²	400	1230	-	75
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Shells for Timber Grapple – H 632HPX

H 632HPX-0,16S	0,16 m ²	400	1225	-	75
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Shells for Hay and Forestry Grapple – H 641HPX

H 641HPX-0,2S	0,20 m ²	670	1200	7	95
H 641HPX-0,4S	0,40 m ²	940	1695	7	160

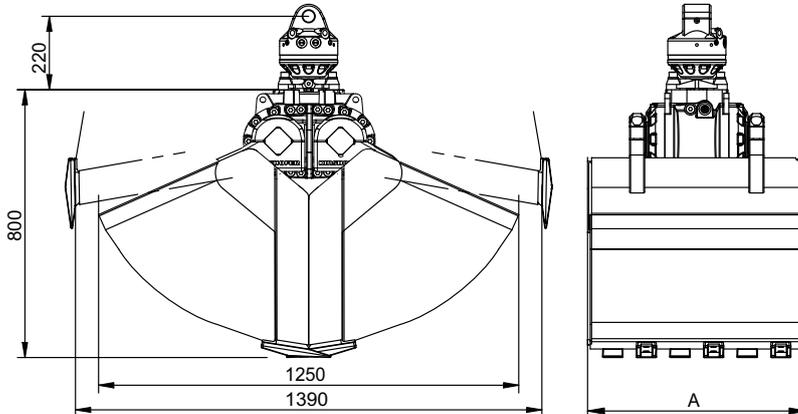
Please note: The drive unit *HPXdrive Standard* can only be used in combination with HYVA Rotator and HYVA Shells

HYVA CLAMSHELL BUCKET WITH HPXdrive Standard

Hyva

Type:

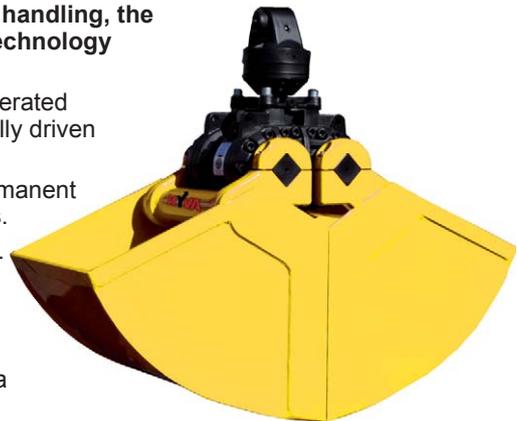
H 604HPX



General Information

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 virtually maintenance free 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 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.
- **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured.
- **Constant closing force** (19 kN at 26 MPa operating pressure) for the entire opening and closing process.



Package Clamshell Bucket H 604HPX with Flange Rotator

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604HPX-200 c	200	400	1020	1390	4	290	19	3000
H 604HPX-250 c	250	500	1020	1390	4	305	19	3000
H 604HPX-325 c	325	600	1020	1390	6	320	19	3000
H 604HPX-350 c	350	650	1020	1390	6	325	19	3000
H 604HPX-450 c	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

Note:

- the H 604HPX is also available with a shaft rotator and quick change system H 505
- for heavy duty tasks we recommend the quick change system H 505 HD in combination with the rotator H 04 S68-30US

Package Clamshell Bucket H 604HPX/502 with Rotator with Shaft and Reduction Link

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604HPX-200/502 c	200	400	1075	1390	4	295	19	3000
H 604HPX-250/502 c	250	500	1075	1390	4	310	19	3000
H 604HPX-325/502 c	325	600	1075	1390	6	325	19	3000
H 604HPX-350/502 c	350	650	1075	1390	6	330	19	3000
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

Requirements of Truck Crane

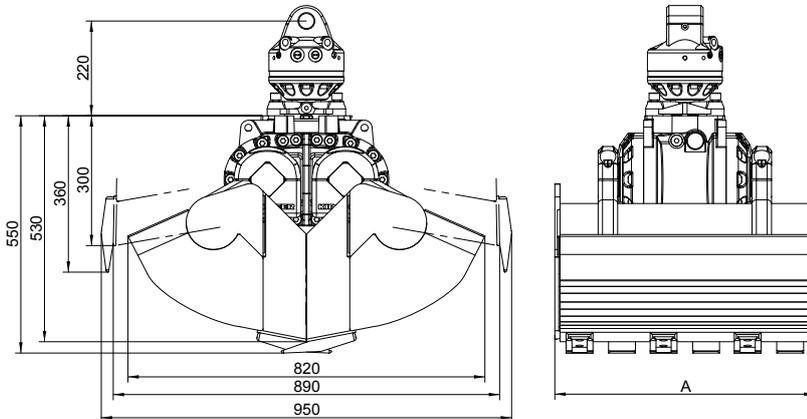
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA CLAMSHELL BUCKET WITH SMALL VOLUME & HPXdrive Standard

Hyva

Type:

H 626HPX



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **Rotator** with shaft is available as an alternative, in case a quick change to a non-rotating hook is favoured
- **Constant closing force** (31 kN at 26 MPa operating pressure) for the entire opening and closing process.



Package Clamshell Bucket H 626HPX with Flange Rotator

Type	Volume	Width B	Height	max. Opening	Number of teeth	Self weight	Closing force	Load capacity
	(litre)	(mm)	(mm)	(mm)		(kg)	(kN)	(kg)
H 626HPX-95 c	95	400	770	890	4	250	31	2000
H 626HPX-100 c	100	450	770	890	4	255	31	2000
H 626HPX-150 c	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

Note:
- the H 626HPX is also available with a shaft rotator and quick change system H 505
- for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Clamshell Bucket H 626HPX/502 with Rotator with Shaft and Reduction Link

Type	Volume	Width B	Height	max. Opening	Number of teeth	Self weight	Closing force	Load capacity
	(litre)	(mm)	(mm)	(mm)		(kg)	(kN)	(kg)
H 626HPX-95/502 c	95	400	825	890	4	255	31	2000
H 626HPX-100/502 c	100	450	825	890	4	260	31	2000
H 626HPX-150/502 c	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

Requirements of Truck Crane

Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

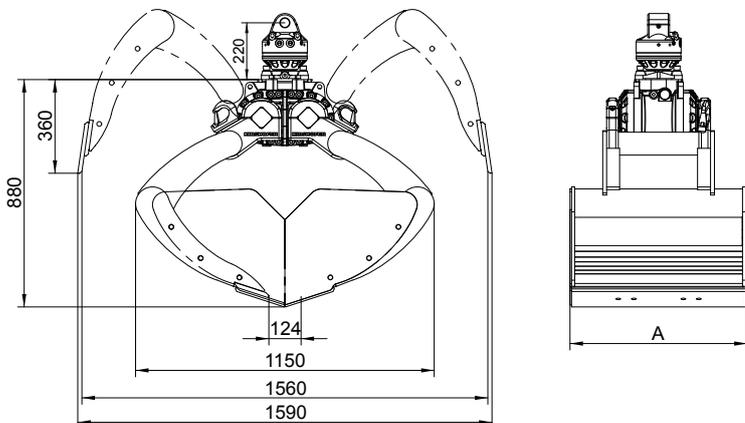
HYVA CLAMSHELL BUCKET

WITH OPEN SHELLS & HPXdrive Standard

Hyva

Type:

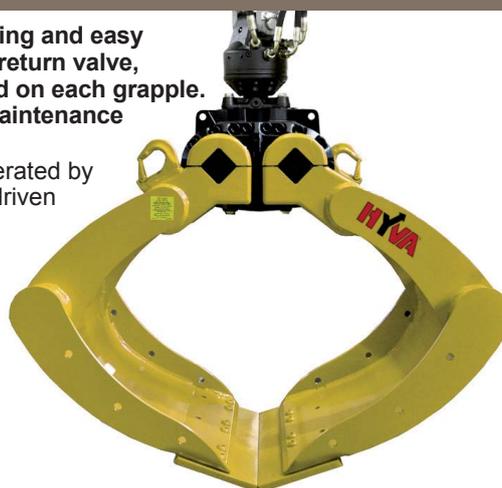
H 604U HPX



General Information

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 virtually maintenance free 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.
- **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) for the entire opening and closing process.



Package Clamshell Bucket H 604U HPX with Flange Rotator

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604U HPX-250 c	250	570	1100	1590	375	17	3000
H 604U HPX-300 c	300	670	1100	1590	395	17	3000
H 604U HPX-400 c	400	820	1100	1590	415	17	3000
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

Note:
 - the H 604U HPX is also available with a shaft rotator and quick change system H 505
 - for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Clamshell Bucket H 604HPX/502 with Rotator with Shaft and Reduction Link

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604U HPX-250/502 c	250	570	1155	1590	380	17	3000
H 604U HPX-300/502 c	300	670	1155	1590	395	17	3000
H 604U HPX-400/502 c	400	820	1155	1590	420	17	3000
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

Requirements of Truck Crane

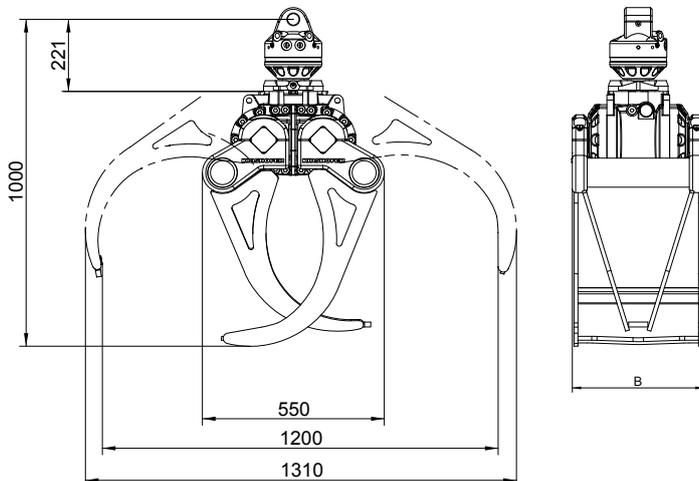
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA ROCK GRAPPLE WITH HPXdrive Standard

Hyva

Type:

H 613HPX



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **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) for the entire opening and closing process.



Package Rock Grapple H 613HPX with Flange Rotator

Type	Capacity	Width B	Height	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(kg)	(kN)	(kg)
H 613HPX-0,16 c	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
- Note:**
- the H 613HPX is also available with a shaft rotator and quick change system H 505
 - for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package rock grapple H 613HPX/502 with Rotator with Shaft and Reduction Link

Type	Capacity	Width B	Height	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(kg)	(kN)	(kg)
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

Requirements of Truck Crane

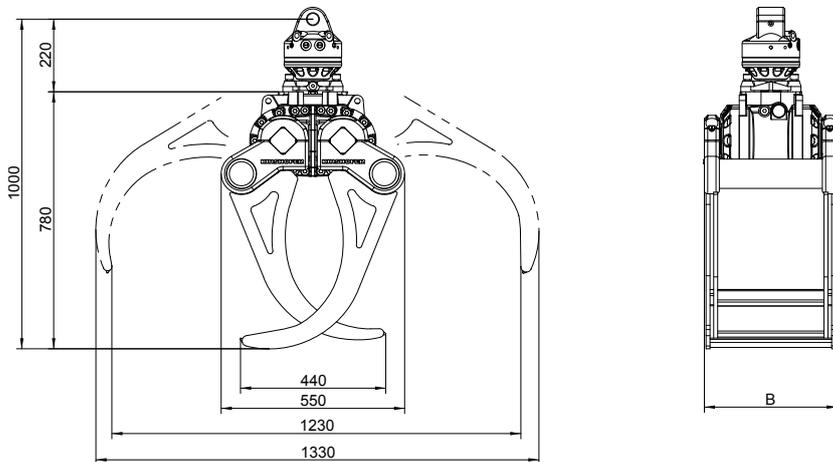
- Operating pressure:** 26 to 32 MPa (260 to 320 bar)
- Pump capacity:** 25 to 75 l/min

HYVA TIMBER GRAPPLE WITH HPXdrive Standard

Hyva

Type:

H 632HPX



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **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) for the entire opening and closing process.



Package Timber Grapple H 632HPX with Flange Rotator

Type	Capacity	Width B	Height	min. Log-Ø	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(mm)	(kg)	(kN)	(kg)
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
Note: - the H 632HPX is also available with a shaft rotator and quick change system H 505
 - for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Timber Grapple H 632HPX/502 with Rotator with Shaft and Reduction Link

Type	Capacity	Width B	Height	min. Log-Ø	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(mm)	(kg)	(kN)	(kg)
H 632HPX-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

Requirements of Truck Crane

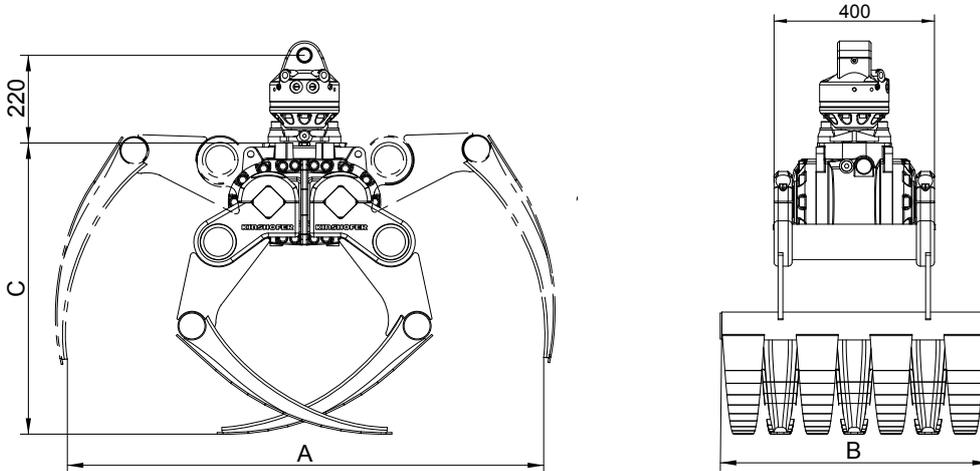
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA HAY & FORESTRY GRAPPLE WITH *HPXdrive Standard*

Hyva

Type:

H 641HPX



General Information

The hay and forestry grapple H 641HPX using the *HPXdrive 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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **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) for the entire opening and closing process.



Package Hay and Forestry Grapple H 641HPX with Flange Rotator

Type	Capacity	Width B	Height C + rotator	Max. Opening A	Number of tines	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)		(kg)	(kN)	(kg)
H 641HPX-0,2 c	0,20	670	950	1190	7	255	18	1000
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

Note:

- the H 641HPX is also available with a shaft rotator and quick change system H 505
- for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Hay and Forestry Grapple H 641HPX/502 with Rotator with Shaft and Reduction Link

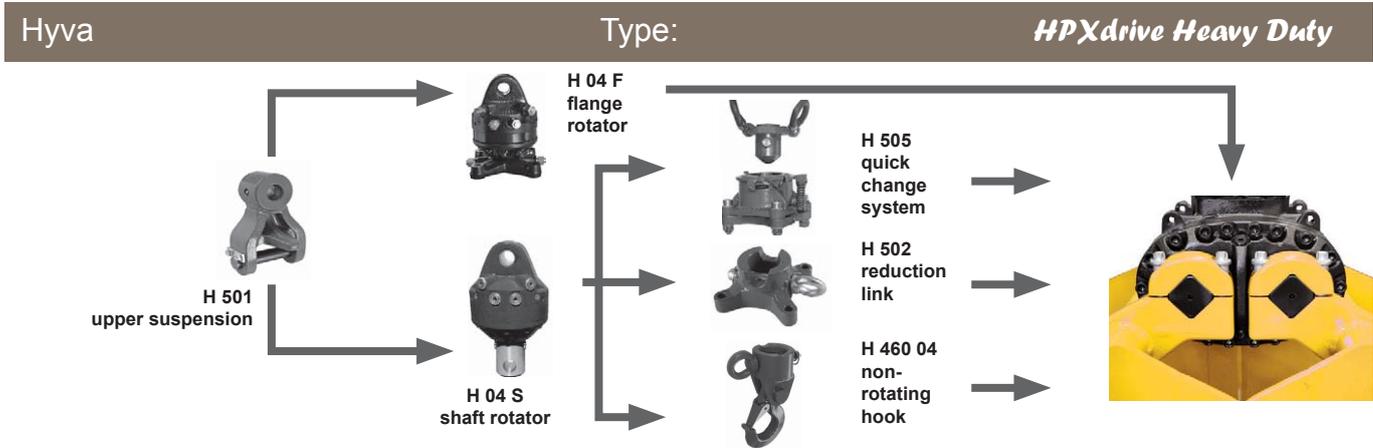
Type	Capacity	Width B	Height C + rotator	Max. Opening A	Number of tines	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)		(kg)	(kN)	(kg)
H 641HPX-0,2/502 c	0,20	670	1005	1200	7	260	18	1000
H 641HPX-0,4/502 c	0,40	940	1245	1695	7	325	14	2000

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

Requirements of Truck Crane

Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA *HPXdrive Heavy Duty* 605 FOR HEAVY TASKS



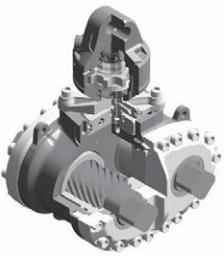
General Information

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



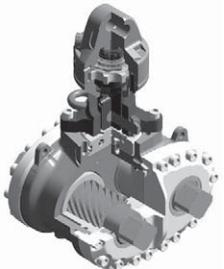
Technical Information *HPXdrive Heavy Duty*

Torque (at 32 MPa):	21000 Nm
Operating pressure:	26 to 32 MPa (approx. 260 to 320 bar)
Pump capacity:	40 to 90 l/min



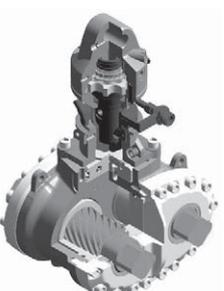
HPXdrive Heavy Duty with Flange Rotator HPX-HD-04F-30V

Package consists of:	upper suspension H 501 4500, rotator H 04 F140-30V, drive unit <i>HPXdrive Heavy Duty</i> with pressure relief valve and non-return valve
Self weight:	195 kg
Height:	510 mm



HPXdrive Heavy Duty/502 with Shaft Rotator and Reduction Link HPX-HD-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 <i>HPXdrive Heavy Duty</i> with pressure relief valve and non-return valve
Self weight:	200 kg
Height:	565 mm



HPXdrive Heavy Duty/505 with Shaft Rotator and Quick Change System HPX-HD-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 <i>HPXdrive Heavy Duty</i> with pressure relief valve and non-return valve
Self weight:	170 kg
Height:	575 mm

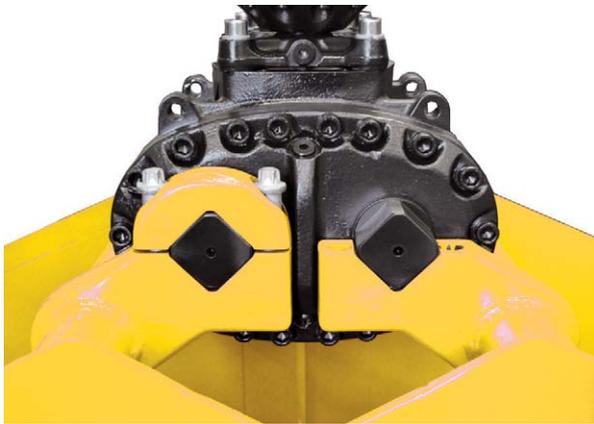
Note: for heavy duty tasks we recommend the quick change system H 505 HD in combination with H 04 S68-30US

Please note: The drive unit *HPXdrive Heavy Duty* can only be used in combination with HYVA Rotator and HYVA Shells

HYVA *HPXdrive Heavy Duty* EXCHANGEABLE SHELLS

Hyva

Type: *HPXdrive Heavy Duty* Exchangeable Shells

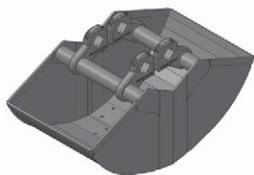


The bucket shells of the *HPXdrive Heavy Duty* are bolted to the shafts, and therefore it is very easy to replace them with another set of shells. Different types of shells for different applications can be refitted onto the driving unit, e.g. clamshell bucket, rock grapple, timber grapple, hay and forestry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

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

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



Type	Volume (litre)	Width (mm)	max. Opening (mm)	Number of teeth/tines	Self weight (kg)
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Shells for Heavy Duty Clamshell Bucket – H 605HPX

H 605HPX-200S	200	400	1420	4	140
H 605HPX-250S	250	500	1420	4	170
H 605HPX-350S	350	650	1420	6	200
H 605HPX-450S	450	800	1420	6	225
H 605HPX-550S	550	1000	1420	8	265

Shells for Heavy Duty Clamshell Bucket with Open Shells – H 605U HPX

H 605U HPX-300S	300	670	1545	5 *	240
H 605U HPX-400S	400	820	1545	7 *	260
H 605U HPX-450S	450	920	1545	7 *	275
H 605U HPX-500S	500	1020	1545	9 *	295

* optional available with bolt-on teeth (weight w/o teeth)

Shells for Heavy Duty Clamshell Bucket with Open Shells for Z-Cranes – H 605U HPX-Z

H 605U HPX-Z-400S	400	820	1545	-	275
H 605U HPX-Z-450S	450	920	1545	-	285
H 605U HPX-Z-500S	500	1020	1545	-	300
H 605U HPX-Z-600S	600	1220	1545	-	335

Shells for Heavy Duty Rock Grapple – H 613HPX-HD

H 613HPX-HD-0,35S	0,35 m ²	400	1705	-	135
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Shells for Heavy Duty Timber Grapple – H 632HPX-HD

H 632HPX-HD-0,16S	0,16 m ²	400	1290	-	90
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Shells for Heavy Duty Hay and Forestry Grapple – H 641HPX-HD

H 641HPX-HD-0,4S	0,40 m ²	940	1720	7	195
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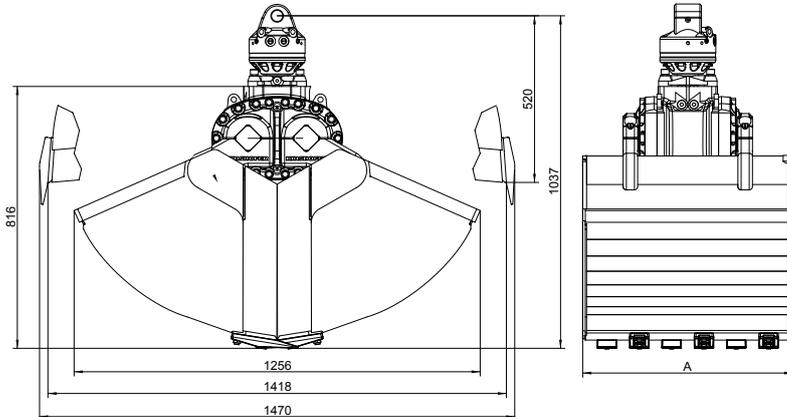
Please note: The drive unit *HPXdrive Heavy Duty* can only be used in combination with HYVA Rotator and HYVA Shells

HYVA CLAMSHELL BUCKET WITH HPXdrive Heavy Duty

Hyva

Type:

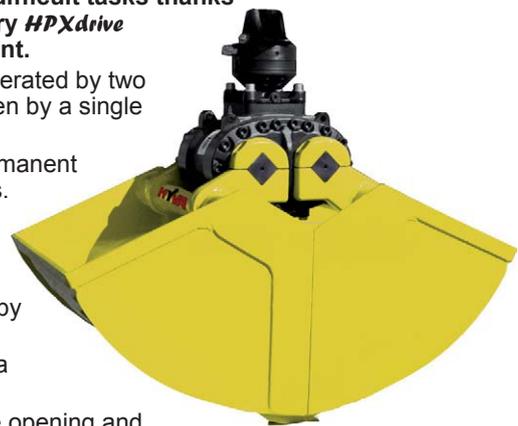
H 605HPX



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured.
- **Constant closing force** (34 kN at 32 MPa operating pressure) for the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package Clamshell Bucket H 605HPX with Flange Rotator

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Teeth	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605HPX-200 c	200	400	1035	1420	4	335	34	3000
H 605HPX-250 c	250	500	1035	1420	4	360	34	3000
H 605HPX-350 c	350	650	1035	1420	6	390	34	3000
H 605HPX-450 c	450	800	1035	1420	6	420	34	3000
H 605HPX-550 c	550	1000	1035	1420	8	455	34	3000

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

Note:
 - the H 605HPX is also available with a shaft rotator and quick change system H 505
 - for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Clamshell Bucket H 605HPX/502 with Rotator with Shaft and Reduction Link

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Teeth	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605HPX-200/502 c	200	400	1090	1420	4	340	34	3000
H 605HPX-250/502 c	250	500	1090	1420	4	365	34	3000
H 605HPX-350/502 c	350	650	1090	1420	6	395	34	3000
H 605HPX-450/502 c	450	800	1090	1420	6	425	34	3000
H 605HPX-550/502 c	550	1000	1090	1420	8	460	34	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

Requirements of Truck Crane

Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 40 to 90 l/min

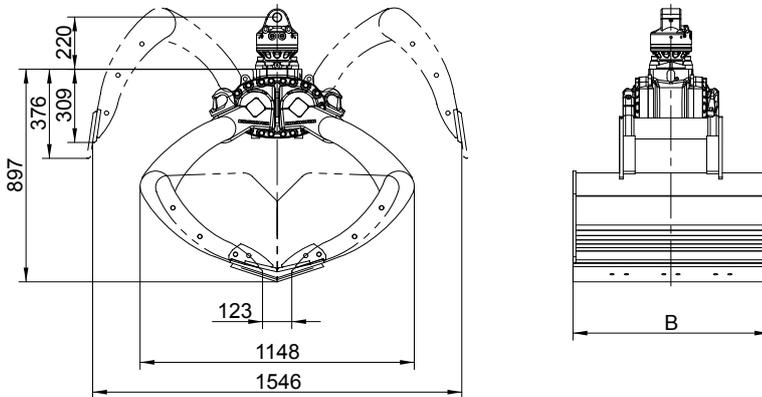
HYVA CLAMSHELL BUCKET

WITH OPEN SHELLS & HPXdrive Heavy Duty

Hyva

Type:

H 605U HPX



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured.
- **Constant closing force** (30 kN at 32 MPa operating pressure) for the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package Clamshell Bucket H 605U HPX with Flange Rotator

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Teeth (optional)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605U HPX-300 c	300	670	1115	1545	5	430	30	3000
H 605U HPX-400 c	400	820	1115	1545	7	455	30	3000
H 605U HPX-450 c	450	920	1115	1545	7	470	30	3000
H 605U HPX-500 c	500	1020	1115	1545	9	485	30	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

Note:

- optional the grapple is available with bolt-on teeth
- the H 605U HPX is also available with a shaft rotator and quick change system H 505
- for heavy duty tasks we recommend the quick change system H 505 HD in combination with rotator H 04 S68-30US

Package Clamshell Bucket H 605U HPX/502 with Rotator with Shaft and Reduction Link

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Teeth (optional)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605U HPX-300/502 c	300	670	1170	1545	5	435	30	3000
H 605U HPX-400/502 c	400	820	1170	1545	7	460	30	3000
H 605U HPX-450/502 c	450	920	1170	1545	7	475	30	3000
H 605U HPX-500/502 c	500	1020	1170	1545	9	490	30	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

Requirements of Truck Crane

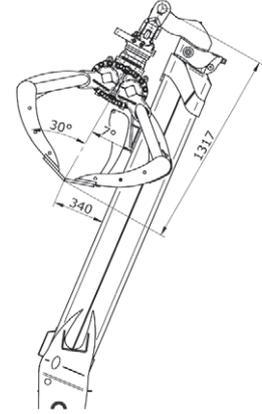
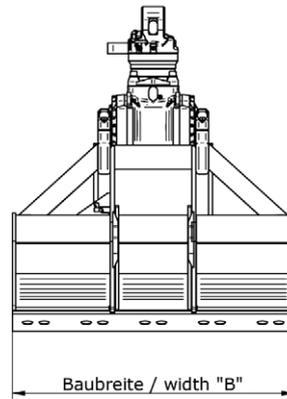
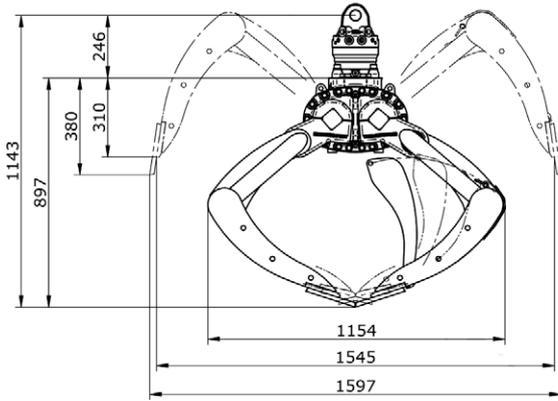
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 40 to 90 l/min

HYVA CLAMSHELL BUCKET FOR Z-CRANES & HPXdrive Heavy Duty

Hyva

Type:

H 605U HPX-Z



General Information

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 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.
- **Profitability** through low maintenance costs and longer life cycle.
- Versatility with 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 turning both shafts of the **HPXdrive**.

* depending on crane kinematics and mounting



Package Clamshell Bucket H 605U HPX-Z with Flange Rotator

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605U HPX-Z-400 c	400	820	1145	1545	465	28	3000
H 605U HPX-Z-450 c	450	920	1145	1545	480	28	3000
H 605U HPX-Z-500 c	500	1020	1145	1545	495	28	3000
H 605U HPX-Z-600 c	600	1220	1145	1545	525	28	3000

Package consists of: clamshell bucket, rotator H 06 F140-40, upper suspension H 501 6000, wear plates H 685 07 set, non-return valve

Package Clamshell Bucket H 605U HPX-Z/502 with Rotator with Shaft and Reduction Link

Type	Volume (litre)	Width B (mm)	Height (mm)	max. Opening (mm)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
H 605U HPX-Z-400/502 c	400	820	1215	1545	470	28	3000
H 605U HPX-Z-450/502 c	450	920	1215	1545	485	28	3000
H 605U HPX-Z-500/502 c	500	1020	1215	1545	500	28	3000
H 605U HPX-Z-600/502 c	600	1220	1215	1545	530	28	3000

Package consists of: clamshell bucket, rotator H 06 S, reduction link H 502 6000, short connecting hoses H 203 01, upper suspension H 501 6000, wear plates H 685 07, non-return valve

Requirements of Truck Crane

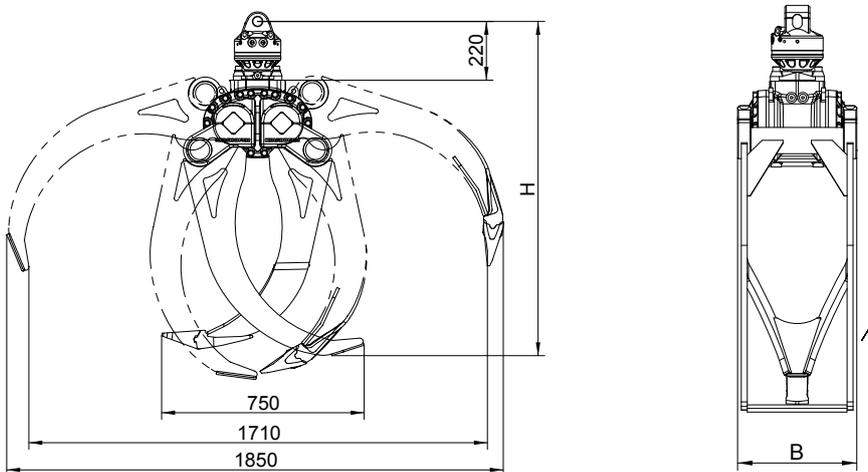
Operating pressure: 32 MPa (320 bar)
Pump capacity: 40 to 90 l/min

HYVA ROCK GRAPPLE WITH HPXdrive Heavy Duty

Hyva

Type:

H 613HPX-HD



General Information

The H 613HPX-HD with **HPXdrive Heavy Duty** 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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating hook is favoured.
- **Constant closing force** (22 kN at 32 MPa operating pressure) for the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package Rock Grapple H 613HPX-HD with Flange Rotator

Type	Capacity (m ²)	Width (mm)	Height (mm)	max. Opening (mm)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
KM 613HPX-HD-0,35 c	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

Note:

- the H 613HPX-HD is also available with a shaft rotator and quick change system KM 505

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

Package Rock grapple H 613HPX-HD/502 with Rotator with Shaft and Reduction Link

Type	Capacity (m ²)	Width (mm)	Height (mm)	max. Opening (mm)	Weight (kg)	Closing force (kN at 32 MPa)	Load capacity (kg)
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

Requirements of Truck Crane

Operating pressure:

26 to 32 MPa (260 to 320 bar)

Pump capacity:

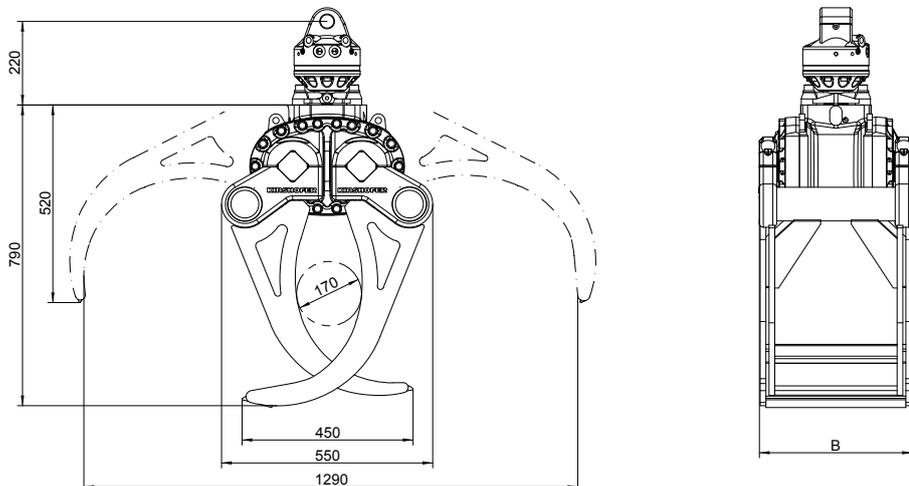
40 to 90 l/min

HYVA TIMBER GRAPPLE WITH HPXdrive Heavy Duty

Hyva

Type:

H 632HPX-HD



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **Rotator with shaft** is available as an alternative, in case a quick change to a non-rotating 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 Flange Rotator

Type	Capacity	Width	Height	min. Log-Ø	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(mm)	(kg)	(kN at 32 MPa)	(kg)
H 632HPX-HD-0,16 c	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

Note:

- the H 632HPX-HD is also available with a shaft rotator and quick change system H 505

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

Package Timber Grapple H 632HPX-HD/502 with Rotator with Shaft and Reduction Link

Type	Capacity	Width	Height	min. Log-Ø	max. Opening	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)	(mm)	(kg)	(kN at 32 MPa)	(kg)
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

Requirements of Truck Crane

Operating pressure:

26 to 32 MPa (260 to 320 bar)

Pump capacity:

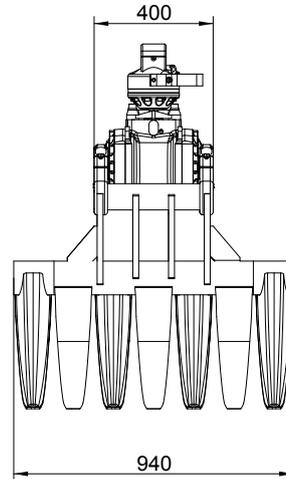
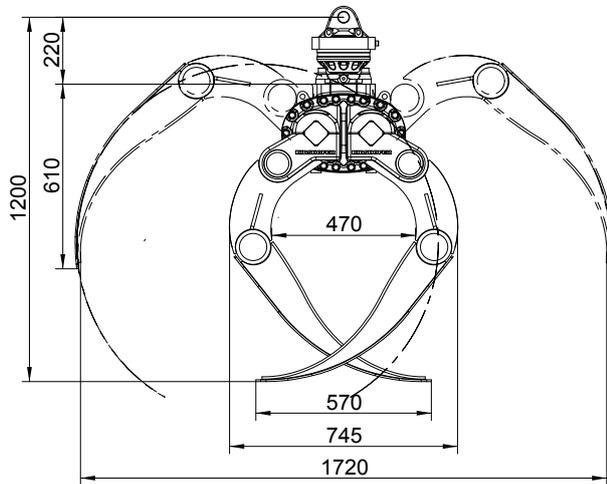
40 to 90 l/min

HYVA HAY & FORESTRY GRAPPLE WITH *HPXdrive Heavy Duty*

Hyva

Type:

H 641HPX-HD



General Information

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 virtually maintenance free 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 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.
- **Precise handling** with the gear-type HYVA rotator and shells synchronised by the single piston turning both shafts.
- **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) for the entire opening and closing process; high efficiency provided by hydro static bearings of the axes.



Package Hay and Forestry H 641HPX-HD with Flange Rotator

Type	Capacity	Width	Height	max. Opening	Number of tines	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)		(kg)	(kN at 32 MPa)	(kg)
H 641HPX-HD-0,4 c	0,40	940	1200	1720	7	390	23	2000

Package consists of:

hay and forestry grapple, rotator H 04 F140-30V, upper suspension H 501 4500, non-return valve

Note:

- the H 641HPX-HD is also available with a shaft rotator and quick change system H 505

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

Package Hay and Forestry H 641HPX-HD/502 with Rotator with Shaft and Reduction Link

Type	Capacity	Width	Height	max. Opening	Number of tines	Self weight	Closing force	Load capacity
	(m ²)	(mm)	(mm)	(mm)		(kg)	(kN at 32 MPa)	(kg)
H 641HPX-HD-0,4/502 c	0,40	940	1255	1720	7	395	23	2000

Package consists of:

hay and forestry grapple, rotator KM 04 S, reduction link KM 502 4500, short connecting hoses KM 203 01, upper suspension KM 501 4500, non-return valve

Requirements of Truck Crane

Operating pressure:

26 to 32 MPa (260 to 320 bar)

Pump capacity:

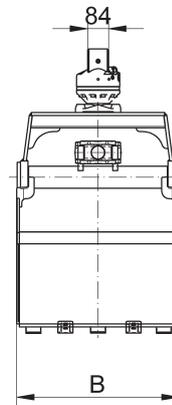
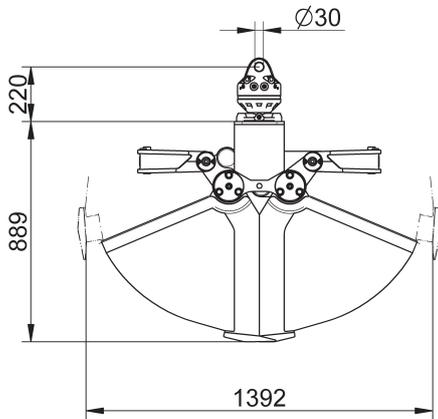
40 to 90 l/min

HYVA CLAMSHELL BUCKET WITH HORIZONTAL HYDRAULIC CYLINDER

Hyva

Type:

H 604



General Information

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).



Package Clamshell Bucket H 604 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604-250 c	250	500	1390	5	255	20	3000
H 604-350 c	350	650	1390	5	275	20	3000
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

Clamshell Bucket H 604 incl. Teeth

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 604-150	150	325	1390	3	185	20	3000
H 604-200	200	400	1390	3	195	20	3000
H 604-250	250	500	1390	5	220	20	3000
H 604-325	325	600	1390	5	235	20	3000
H 604-350	350	650	1390	5	240	20	3000
H 604-450	450	800	1390	9	275	20	3000

Accessories

H 04 F	recommended rotator for H 604
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 680 01	scraper
H 685 06 hook set 2	welded hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
H 685 05	adapters for mounting of compression rails
H 381 09 720	compression rails – length 720 mm (2 pieces)
H 381 09 1000	compression rails – length 1000 mm (2 pieces)

Requirements of Truck Crane

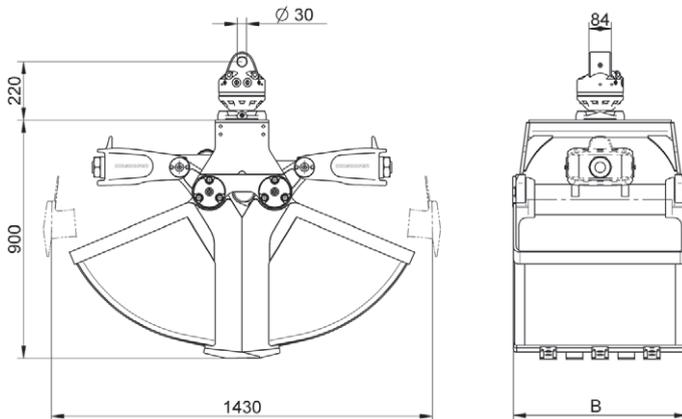
Operating pressure: 26 to 32 MPa (260 to 320 bar)
 Pump capacity: 25 to 75 l/min

HYVA HEAVY DUTY CLAMSHELL BUCKET WITH HORIZONTAL HYDRAULIC CYLINDER

Hyva

Type:

H 605



General Information

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).



Package Clamshell Bucket H 605 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 605-250 c	250	500	1430	3	320	30	3000
H 605-350 c	350	650	1430	5	345	30	3000

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

Clamshell Bucket H 605 incl. Teeth

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 605-200	200	400	1430	3	265	30	3000
H 605-250	250	500	1430	5	285	30	3000
H 605-350	350	650	1430	5	310	30	3000
H 605-450	450	800	1430	9	340	30	3000
H 605-550	550	1000	1430	9	375	30	3000
H 605-650	650	1200	1430	9	410	30	3000

Accessories

H 04 F	recommended rotator for H 605
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 680 01	scraper
H 685 06 hook set 2	welded hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Requirements of Truck Crane

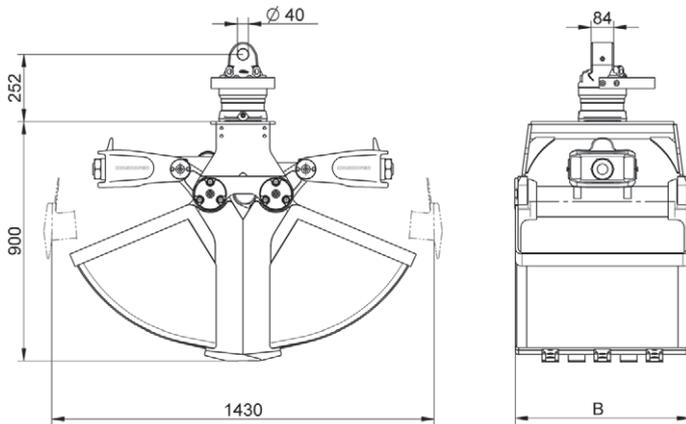
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 25 to 75 l/min

HYVA REINFORCED HD CLAMSHELL BUCKET WITH HORIZONTAL HYDRAULIC CYLINDER

Hyva

Type:

H 606



General Information

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).



Clamshell Bucket H 606 (teeth incl.)

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Number of teeth	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 606-200	200	400	1430	3	315	30	3000
H 606-250	250	500	1430	5	335	30	3000
H 606-350	350	650	1430	5	365	30	3000

Accessories

H 04 F	recommended rotator for H 606 – depending on application
H 06 F140-40	recommended rotator for H 606 – depending on application
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 680 01	scraper
H 685 06 hook set 2	welded hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)
H 685 05	adapters for mounting of compression rails
H 381 09 720	compression rails – length 720 mm (2 pieces)
H 381 09 1000	compression rails – length 1000 mm (2 pieces)
H 203 01	short connecting hoses

Requirements of Truck Crane

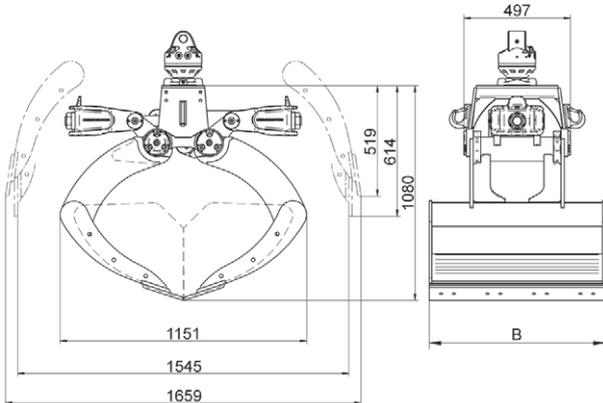
Operating pressure: 26 to 32 MPa (260 to 320 bar)
 Pump capacity: 25 to 75 l/min

HYVA HEAVY DUTY UNIVERSAL BUCKET WITH OPEN SHELLS

Hyva

Type:

H 605U



General Information

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).



Package Clamshell Bucket H 605U c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	No. of teeth (optional)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 605U-300 c	300	670	1545	5	390	28	3000
H 605U-400 c	400	820	1545	7	415	28	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, non-return valve

Clamshell Bucket H 605U

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	No. of teeth (optional)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 605U-250	250	570	1545	5	340	28	3000
H 605U-300	300	670	1545	5	355	28	3000
H 605U-400	400	820	1545	7	380	28	3000
H 605U-450	450	920	1545	7	390	28	3000
H 605U-500	500	1020	1545	9	410	28	3000
H 605U-600	600	1220	1545	9	440	28	3000

Accessories

H 04 F	recommended rotator for H 605U
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 685 05	adapters for mounting of compression rails
H 381 09 720	compression rails – length 720 mm (2 pieces)
H 381 09 1000	compression rails – length 1000 mm (2 pieces)
H 685 09 C	side plates to screw onto the grapple for easy digging tasks (4 pieces)

Requirements of Truck Crane

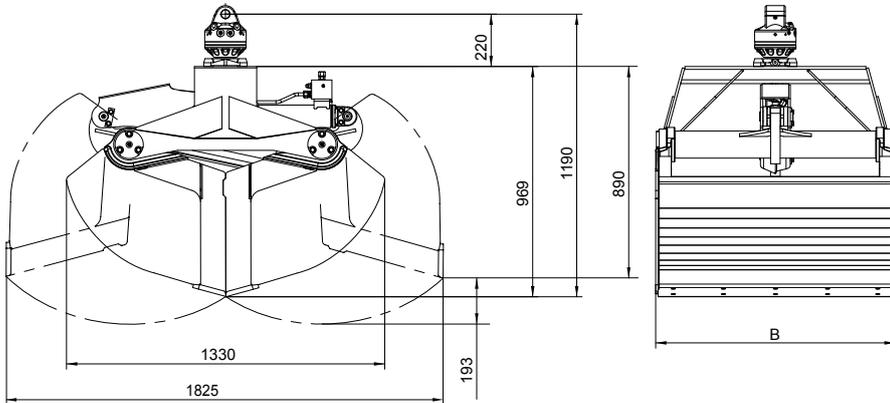
Operating pressure: max. 32 MPa (320 bar)
 Pump capacity: 25 to 75 l/min

HYVA HIGH VOLUME CLAMSHELL BUCKET WITH HORIZONTAL HYDRAULIC CYLINDER

Hyva

Type:

H 602



General Information

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).



Package High Volume Clamshell Bucket H 602 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	N° of teeth (optional)	Weight (kg)	Closing force (kN)	Load capacity (kg)
H 602-400 c	400	800	1830	9	495	28	3000
H 602-500 c	500	1000	1830	9	510	28	3000
H 602-650 c	650	1200	1830	9	525	28	3000

Package consists of: high volume clamshell bucket, rotator H 04 F, short connecting hoses H 203 01, upper suspension H 501 4500, (without teeth), non-return valve

High Volume Clamshell Bucket H 602

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	N° of teeth (optional)	Weight (kg)	Closing force (kN)	Load capacity (kg)
H 602-300	300	500	1830	5	420	28	3000
H 602-400	400	800	1830	9	450	28	3000
H 602-500	500	1000	1830	9	465	28	3000
H 602-650	650	1200	1830	9	480	28	3000
H 602-1000	1000	1200	2190	9	595	23	3000

Accessories

H 04 F	recommended rotator for H 602
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 685 06 eye / hook set 2	welded eyes / hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Requirements of Truck Crane

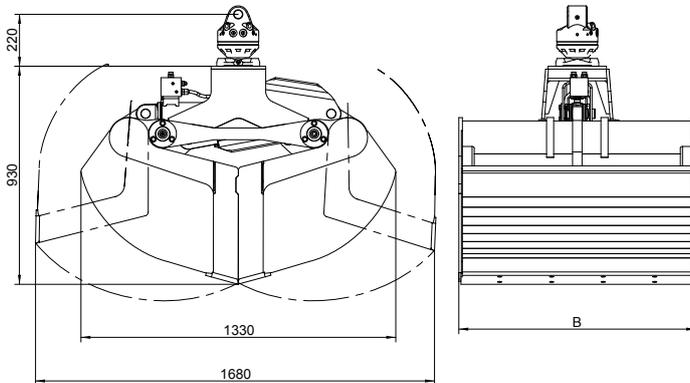
Operating pressure: 26 to 32 MPa (260 to 320 bar)
Pump capacity: 35 to 75 l/min

HYVA HIGH VOLUME CLAMSHELL BUCKET WITH NARROW CARRIER

Hyva

Type:

H 622



General Information

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

- **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 (20 kN at an operating pressure of 26 MPa).



Package High Volume Clamshell Bucket H 622 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	N° of teeth (optional)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 622-300 c	300	640	1670	5	360	20	3000
H 622-400 c	400	800	1670	9	390	20	3000
H 622-500 c	500	1000	1670	9	415	20	3000

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

High Volume Clamshell Bucket H 622

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	N° of teeth (optional)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 622-300	300	640	1670	5	315	20	3000
H 622-400	400	800	1670	9	345	20	3000
H 622-500	500	1000	1670	9	370	20	3000

Accessories

H 04 F	recommended rotator for H 622
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 685 06 eye / hook set 2	welded eyes / hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Requirements of Truck Crane

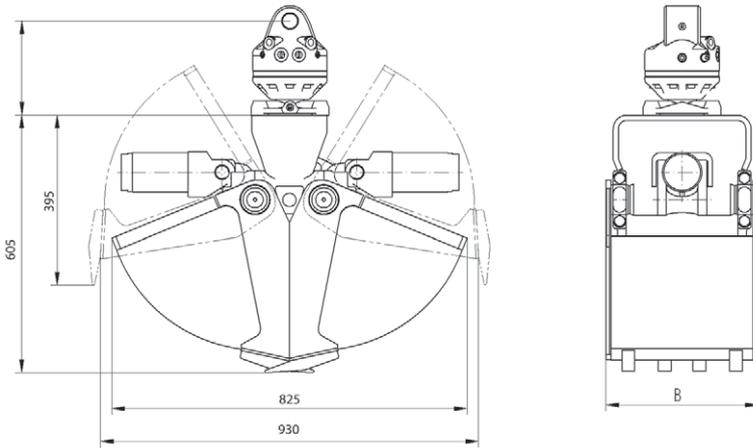
Operating pressure: 20 to 32 MPa (200 to 320 bar)
Pump capacity: 35 to 75 l/min

HYVA SMALL VOLUME CLAMSHELL BUCKET WITH HORIZONTAL HYDRAULIC CYLINDERS

Hyva

Type:

H 626



General Information

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.



Package Clamshell Bucket H 626 c

Type	Volume (litre)	Width B (mm)	Opening (mm)	Teeth (n°)	Weight (kg)	Closing force (kN)	Capacity (kg)
H 626-95 c	95	400	825	4	125	27	3000
H 626-100 c	100	450	825	4	130	27	3000

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

Accessories

H 04 F	recommended rotator for H 626
H 03 S	shaft rotator for precise positioning of the load – up to 3000 kg load capacity
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator KM 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 3000	reduction link between rotator and grapple for H 03 S
H 502 4500	reduction link between rotator and grapple for H 04 S
H 680 02	scraper
H 685 06 eye / hook set 2	welded eyes / hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

Requirements of Truck Crane

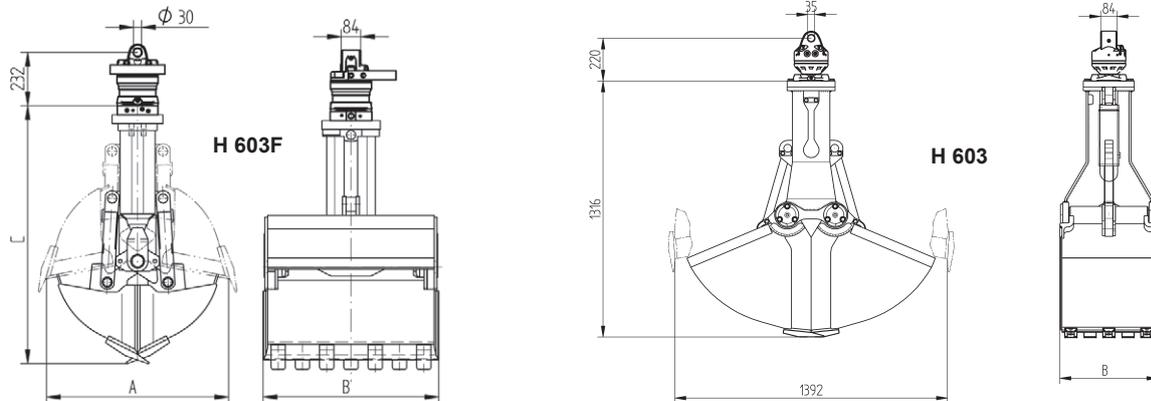
Operating pressure: max. 26 MPa (max. 260 bar)
Pump capacity: 25 - 75 l/min

HYVA CLAMSHELL BUCKET WITH VERTICAL HYDRAULIC CYLINDER

Hyva

Type:

H 603



General Information

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.
- **Special model H 603F** with special bucket shape for excavating foundations and graves.
- **Special model H 603R** with round buckets for digging well shafts etc.
- **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

Package Clamshell Bucket H 603 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 603-250 c	250	500	1390	5	330	20	3000
H 603-350 c	350	650	1390	5	355	20	3000

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

Clamshell Bucket H 603 incl. Teeth

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 603-150	150	325	1390	3	260	20	3000
H 603-200	200	400	1390	3	275	20	3000
H 603-250	250	500	1390	5	295	20	3000
H 603-325	325	600	1390	5	315	20	3000
H 603-350	350	650	1390	5	320	20	3000
H 603-450	450	800	1390	9	355	20	3000

Special Grapples H 603F(incl. Scraper) and H 603R (Round Shells)

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 603F-100	100	600	800	5	280	30	3000
H 603F-125	125	760	800	7	315	30	3000
H 603F-150	150	600	1000	5	275	30	3000
H 603F-190	190	760	1000	7	305	30	3000
H 603F-200	200	600	1000	5	295	30	3000
H 603R-30	30	-	Ø 460	4	210	30	3000
H 603R-50	50	-	Ø 600	5	225	30	3000
H 603R-150	150	-	Ø 900	5	240	30	3000
H 603R-200	200	-	Ø 1000	7	295	30	3000

Requirements of Truck Crane

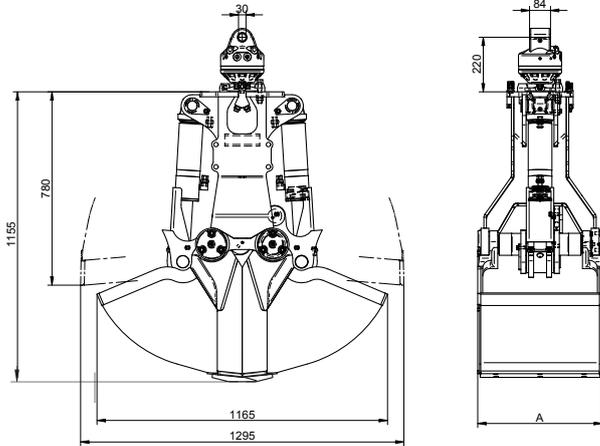
Operating pressure: max. 26 MPa (260 bar)
 Pump capacity: 25 to 75 l/min

HYVA HEAVY DUTY CLAMSHELL BUCKET WITH VERTICAL HYDRAULIC CYLINDERS

Hyva

Type:

H 607



General Information

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 pressure of 26 MPa).

→ Alternatively to the H 607 the H 605HPX can be used with an extension for excavating.



Package Clamshell Bucket H 607 c

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 607-215 c	215	500	1295	5	320	32	3000
H 607-255 c	255	600	1295	5	335	32	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

Clamshell Bucket H 607 incl. Teeth

Type	Volume (litre)	Width B (mm)	max. Opening (mm)	Teeth (n°)	Self weight (kg)	Closing force (kN)	Load capacity (kg)
H 607-135	135	325	1295	3	260	32	3000
H 607-170	170	400	1295	3	270	32	3000
H 607-215	215	500	1295	5	285	32	3000
H 607-255	255	600	1295	5	300	32	3000
H 607-340	340	800	1295	9	385	32	3000

Accessories

H 04 F	recommended rotator for H 607
H 04 S	shaft rotator for precise positioning of the load – up to 4500 kg load capacity
H 04 S68-30US	recommended shaft rotator for heavy duty tasks – up to 4500 kg load capacity
H 505	quick change system for shaft-type rotator H 04 S
H 505 HD	quick change system HD for shaft-type rotator H 04 S68-30US
H 502 4500	reduction link between rotator and grapple
H 680 01	scraper
H 685 06 hook set 2	welded hooks (2 pieces)
H 685 07 set	wear plates to protect horizontal cutting edges (2 pieces)

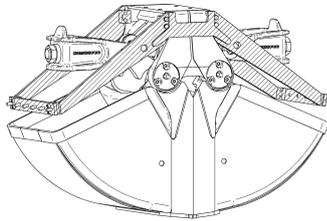
Requirements of Truck Crane

Operating pressure: max. 26 MPa (260 bar)
Pump capacity: 30 to 75 l/min

HYVA ACCESSORIES FOR CLAMSHELL BUCKETS

H 680 – Scraper

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



H 680

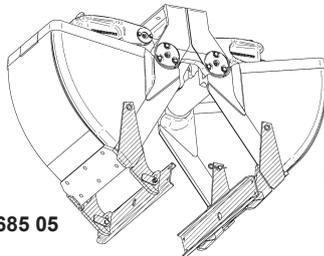
Type	for Clamshell Bucket
H 680 01	H 603/ 604/ 604HPX/ 605/ 605HPX/ 606/ 607
H 680 02	H 626HPX
H 505 04	link-set for H 604HPX/605HPX/626HPX in combination with H 505 / H 505 HD and scraper H 680



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

H 685 05 – Adapters for Compression Rails

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



H 685 05

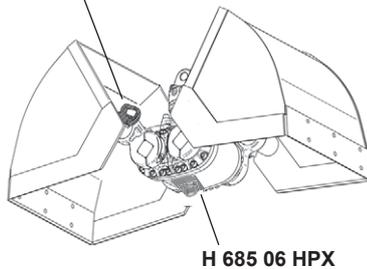
Type	Description
H 685 05	adapters for compression rails
H 381 09 720	compression rails – length 720 mm lang (2 pieces)
H 381 09 1000	compression rails – length 1000 mm lang (2 pieces)

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 Device for HPX, Welded Hook or Welded Eye

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

H 685 06 hook



H 685 06 HPX

Type	Description
H 685 06 HPX SD	to suit lifting chain or sling, 1 piece
H 685 06 HPX HD	to suit lifting chain or sling, 1 piece
H 685 06 hook	to suit lifting chain or sling, 1 piece
H 685 06 hook set 2	to suit lifting chain or sling, 2 pieces
H 685 06 hook set 4	to suit lifting chain or sling, 4 pieces
H 685 06 eye	to suit lifting chain or sling, 1 piece
H 685 06 eye set 2	to suit lifting chain or sling, 2 pieces



central lifting device **HPXdrive**



H 685 06 hook

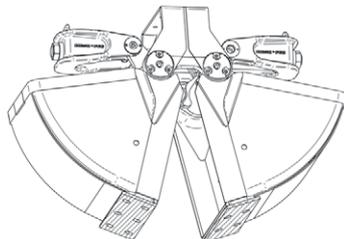
welded hook



H 685 06 eye
(not with **HPXdrive**)

welded eye

H 685 07 – Wear Plates (2 pieces)



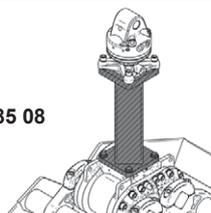
H 685 07

Type	Description
H 685 07 set	Wear plates, 2 pieces, available in widths
	325 400 450 500 570 600
	650 670 800 820 920 1000
	1020 1200

to protect horizontal cutting edges

H 685 08 – Extension for Excavating with the **HPXdrive Standard** or the **HPXdrive Heavy Duty**

H 685 08



Type	Description
extension HPXdrive	extension for excavating e.g. trenches (for canal and civil engineering) – 450 mm (30 kg)

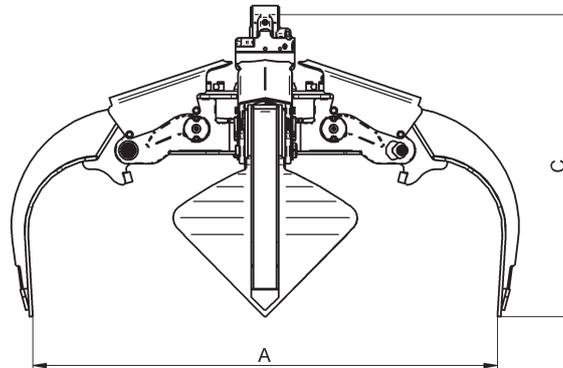
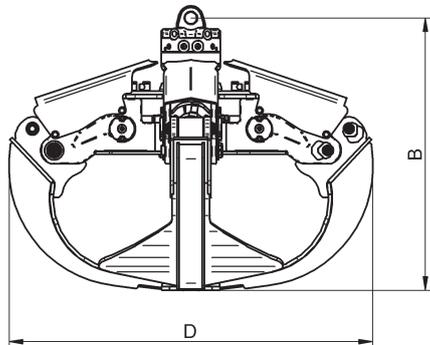
HYVA ORANGE PEEL GRAPPLES

WITH 120 - 240 LITRES CAPACITY

Hyva

Type:

H 650 small



General Information

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 (120l, 180l, 240l), with 4 or 5 tines.

- **Different tine shapes** of the H 650 series to accommodate 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 (11 kN to 13 kN at an operating pressure of 26 MPa).



Orange Peel Grapple H 650 small

Type	Number of tines	Volume (litre)	max. Opening A (mm)	Width D (closed) (mm)	Height B (closed, incl. rotator) (mm)	Self weight (w/o rotator) (kg)	Load capacity (kg)	Closing force (kN)
H 651-4	4	120	1360	1065	800	330	2000	13
		180	1450	1070	850	345	2000	12
		240	1720	1125	985	380	2000	11
H 651-5	5	120	1360	1065	800	350	2000	13
		180	1450	1070	850	365	2000	12
		240	1720	1125	985	415	2000	11
H 652-4	4	120	1360	1065	800	260	2000	13
		180	1450	1070	850	270	2000	12
		240	1720	1125	985	300	2000	11
H 652-5	5	120	1360	1065	800	300	2000	13
		180	1450	1070	850	305	2000	12
		240	1720	1125	985	340	2000	11
H 653-4	4	120	1360	1065	800	230	2000	13
		180	1450	1070	850	235	2000	12
		240	1720	1125	985	250	2000	11
H 653-5	5	120	1360	1065	800	275	2000	13
		180	1450	1070	850	285	2000	12
		240	1720	1125	985	300	2000	11

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

Accessories

H 04 F recommended rotator for H 650 small

Requirements of Truck Crane

Operating pressure: max. 26 MPa (260 bar)
 Pump capacity: 30 to 75 l/min

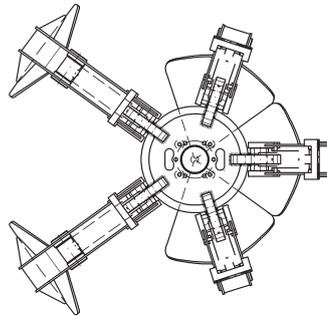
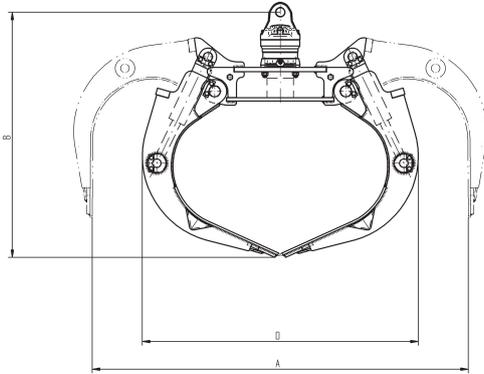
HYVA ORANGE PEEL GRAPPLES

WITH 250 - 500 LITRES CAPACITY

Hyva

Type:

H 650 large



General Information

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 (250l, 350l, 500l), with 4 or 5 tines.

- **Different tine shapes** of the H 650 series to handle 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

Type	Number of tines	Volume (litre)	max. Opening A (mm)	Width D (closed) (mm)	Height B (closed, incl. rotator) (mm)	Self weight (w/o rotator) (kg)	Load capacity (kg)	Closing force (kN)
H 651-4	4	250	1550	1285	1015	445	2500	18
		350	1720	1260	1100	470	3000	16
		500	2155	1320	1350	555	3000	13
H 651-5	5	250	1550	1285	1015	520	2500	18
		350	1720	1260	1100	545	3000	16
		500	2155	1320	1350	635	3000	13
H 652-4	4	250	1550	1285	1015	425	2500	18
		350	1720	1260	1100	440	3000	16
		500	2155	1320	1350	505	3000	13
H 652-5	5	250	1550	1285	1015	505	2500	18
		350	1720	1260	1100	520	3000	16
		500	2155	1320	1350	595	3000	13
H 653-4	4	250	1550	1285	1015	390	2500	18
		350	1720	1260	1100	395	3000	16
		500	2155	1320	1350	435	3000	13
H 653-5	5	250	1550	1285	1015	470	2500	18
		350	1720	1260	1100	480	3000	16
		500	2155	1320	1350	525	3000	13

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

Accessories

H 04 F	recommended rotator for H 650 large
H 06 F140-40	recommended rotator for H 650 large – for heavy duty application

Requirements of Truck Crane

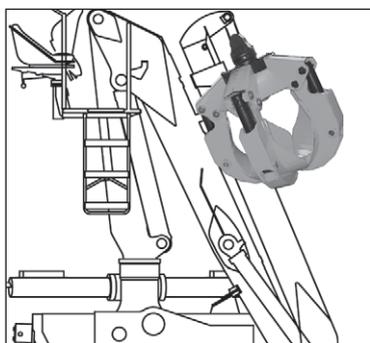
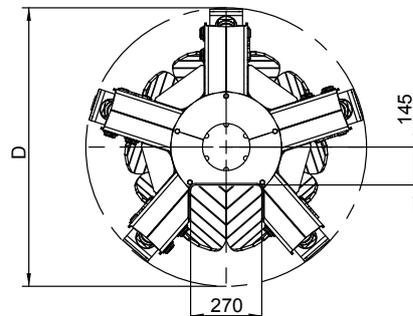
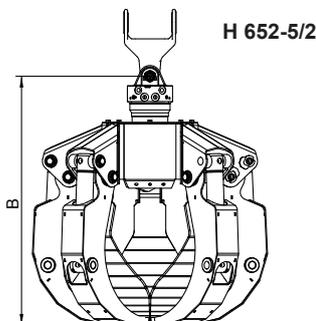
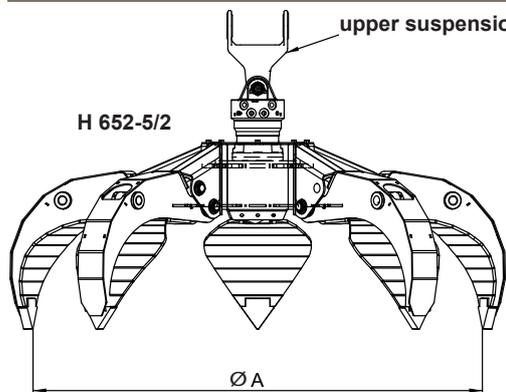
Operating pressure: max. 26 MPa (260 bar)
 Pump capacity: 30 to 80 l/min

HYVA ASYMMETRIC ORANGE PEEL GRAPPLES WITH 240 LITRES CAPACITY

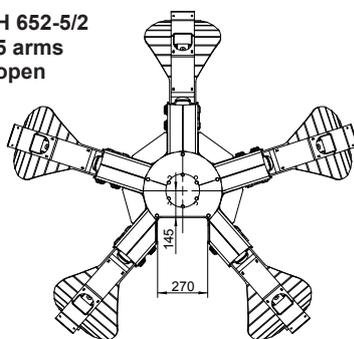
Hyva

Type:

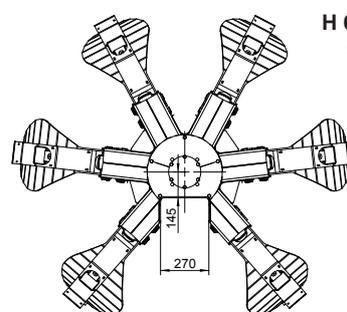
H 652/2



H 652-5/2
5 arms
open



H 652-6/2
6 arms
open



General Information

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 5 (H 652-5/2) or 6 arms (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.
- **Counter-balance valve** guarantees 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, wear-resistant shells made of 400 HB steel, cylinder with piston rod protection, stops for both end positions 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

Type	Number of tines	Volume (litre)	Opening Ø A (mm)	Width D (closed) (mm)	Height B (closed, incl. rotator) (mm)	Weight (w/o rotator) (kg)	Capacity (kg)	Closing force (kN)
H 652-5/2	5	240	1790	1065	1110	350	2500	13
H 652-6/2	6	240	1790	1065	1110	410	2500	13

Package consists of: orange peel grapple, counter-balance valve

Accessories

H 06 F173-35 | recommended rotator for H 652/2

Requirements of Truck Crane

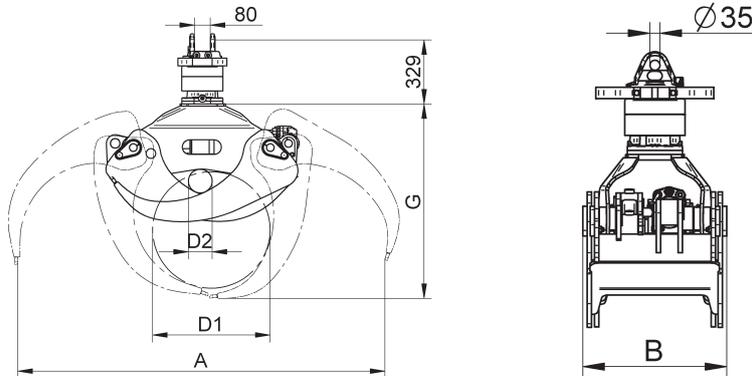
Operating pressure: max. 26 MPa (260 bar)
Pump capacity: 25 - 75 l/min

HYVA LOGGING GRAPPLE FOR HEAVY DUTY OPERATIONS

Hyva

Type:

H 634



General Information

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 rotator.
- **Precise positioning** of the loads is no problem in combination with the 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.
- **The reinforced logging grapple H 634S** has an even more sturdy construction and is equipped with a stronger rotator.
- **Efficient handling** with high closing forces (13 to 16 kN at an operating pressure of 24 MPa).



Package Logging Grapple H 634 c

Type	Capacity (m ²)	Width B (mm)	min. Log-Ø D2 (mm)	max. Opening A (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
H 634-0,25 c	0,25	420	90	1470	215	13	4000
H 634-0,35 c	0,35	500	135	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 hoses H 203 01, upper suspension H 501 (for H 634-0,25: H 501 6000, for H 634-0,35: H 501 10000), non-return valve

Logging Grapple H 634

Type	Capacity (m ²)	Width B (mm)	min. Log-Ø D2 (mm)	max. Opening A (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
H 634-0,25	0,25	420	90	1470	170	13	4000
H 634-0,35	0,35	500	135	1950	225	16	5000
H 634-0,50	0,50	500	170	1985	250	15	5000

Logging Grapple H 634S – Reinforced Version of H 634

Type	Capacity (m ²)	Width B (mm)	min. Log-Ø D2 (mm)	max. Opening A (mm)	Weight (kg)	Closing force (kN)	Load capacity (kg)
H 634S-0,40	0,40	510	135	1950	270	16	6000
H 634S-0,50	0,50	510	170	1985	275	16	7000
H 634S-0,70	0,70	590	110	2570	530	15	8000

Accessories

H 06 F173-35	recommended rotator for H 634-0,25
H 10 F173-35/1	recommended rotator for H 634-0,35
H 10 F173-45/52	recommended rotator for H 634S

Requirements of Truck Crane

Operating pressure H 634: max. 24 MPa (240 bar)
Pump capacity: 25 - 75 l/min

HYVA BOTTLE-BANK DISCHARGE UNITS FOR CONTAINERS WITH RING SYSTEM

Hyva

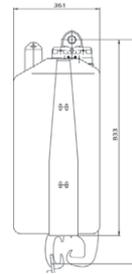
Type:

H 920-1 / H 920-4 / H 920-11

HYVA container discharge attachments with ring 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.

Bottle-Bank Discharge Unit H 920-1 for Container with Ring System / Low Overall Height

- Low overall height due to compact design.
- Rugged engineering with rope operation.
- Hooks on automatically when container is lifted.
- Precise positioning with rotator.
- Protection against damage of container by automatic lift stop.

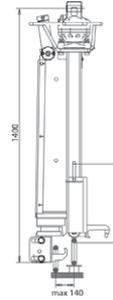


Type	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight (kg)	max. Operating pressure (MPa (bar))	max. Pump capacity (l/min)
H 920-1	500	2200	955	170	21 (210)	60

Package consists of: bottle-bank discharge unit, rotator, short connecting hoses H 203 01, upper suspension with pendulum damper H 511 4500, non-return valve

Bottle-Bank Discharge Unit H 920-11 for Container with Ring System

- Robust mechanics with few moving parts and guided lifting hook.
- Precise positioning with 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.

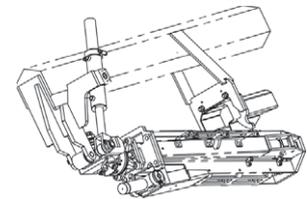


Type	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight (kg)	max. Operating pressure (MPa (bar))	max. Pump capacity (l/min)
H 920-11	500	2500	1400	175	32 (320)	60

Package consists of: bottle-bank 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

Accessories

Type	Description	Tilting angle (deg.)	Self weight (kg)
H 924	Docking device for bottle-bank 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 28 MPa (280 bar) .	90	70



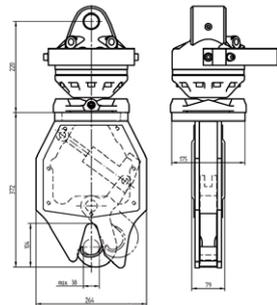
Hydraulic Hook H 920-4 for Containers and Loads with Ring System

The hydraulic hook facilitates the fast and precise lifting and loosening of containers and loads with ring system.

- Precise positioning in combination with rotator.
- Low overall height due to compact design.
- Robust mechanics with hydraulic cylinder (open/close).
- V-shaped cutout facilitates ring suspension.
- Vertical oil duct to recommended rotator without open hydraulic hoses.

Type	Width (mm)	Height (incl. rotator) (mm)	max. Ring - Ø (mm)	Self weight (incl. rotator) (kg)	max. Operating pressure (MPa (bar))	max. Load (kg)
H 920-4	264	592	38	46	20 (200)	2500

Package consists of: hydraulic hook, rotator H 04 F140-30V, non-return valve



HYVA BOTTLE-BANK DISCHARGE UNITS FOR CONTAINERS WITH MUSHROOM SYSTEM

Hyva

Type:

H 920-12 / H 921

HYVA container discharge attachments with the fast 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.

Bottle-Bank Discharge Unit H 920-12 for Container with Mushroom System

- Robust mechanics with self centring hydraulic interlocking.
- Precise positioning with 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.



The secure service of the bottle-bank discharge unit **H 920-12** can only be guaranteed by HYVA in case the **ORIGINAL HYVA FIXED and HOIST DISCS** are used on the container in the specified distance dimensions!



Type	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight (kg)	max. Operating pressure (MPa (bar))	max. Pump capacity (l/min)
H 920-12	500	2500	1490	175	32 (320)	60

Package consists of: bottle-bank 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

Bottle-Bank Discharge Unit H 921 for Container with Mushroom or Ring System

- Combination model: without any adjustments both types of containers can be handled – with mushroom or ring system.
- Low overall height due to compact design.
- Robust mechanics with self locking spindle.
- Precise positioning with 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.



The secure service of the bottle-bank discharge unit **H 921** can only be guaranteed by HYVA in case the **ORIGINAL HYVA FIXED and HOIST DISCS** are used on the container in the specified distance dimensions!
Not for use of fixed discs with locking ribs!

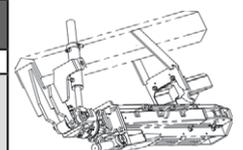


Type	max. Lift of the hook (mm)	Load capacity (kg)	Height (incl. rotator) (mm)	Self weight (kg)	max. Operating pressure (MPa (bar))	max. Pump capacity (l/min)
H 921	500	2500	1055	170	32 (320)	60

Package consists of: bottle-bank discharge unit, rotator KM 04 F, short connecting hoses KM 203 01, upper suspension with pendulum damper KM 511 4500, pressure relief valve

Accessories

Type	Description	Tilting angle (degree)	Self weight (kg)
H 924	Docking device for bottle-bank 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 28 MPa (280 bar) .	90	70

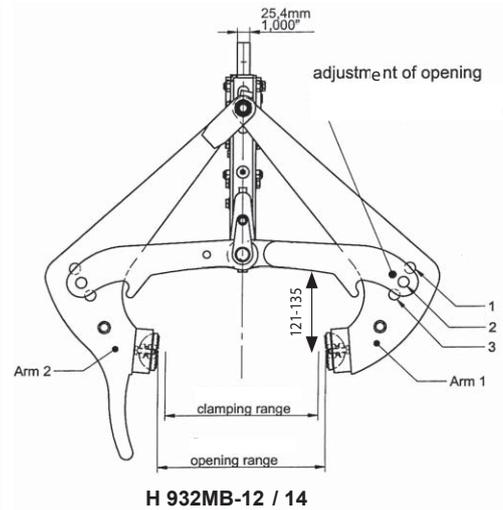
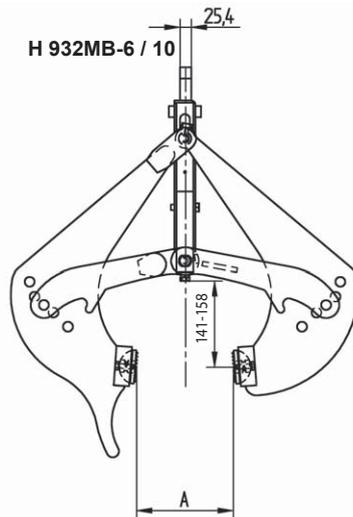
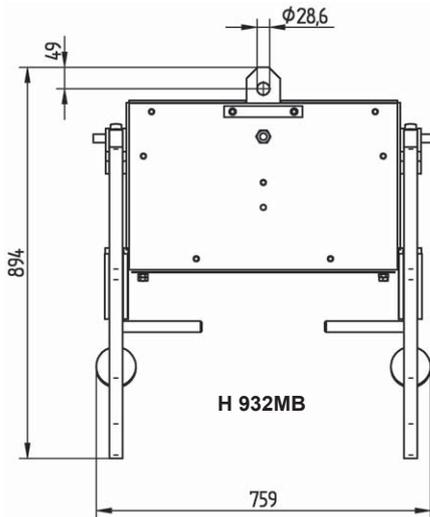


HYVA BARRIER LIFTER

Hyva

Type:

H 932MB



General Information

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.
- **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.



Barrier Lifter H 932MB

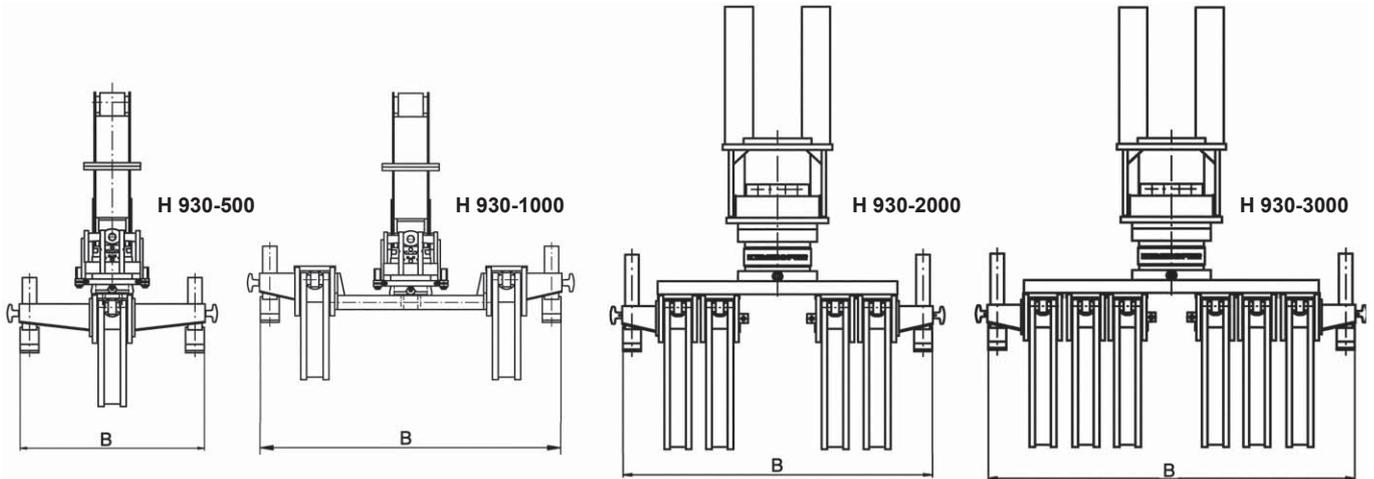
Type	Gripping A (min./max.) (mm)	Self weight (kg)	Load capacity (kg)
H 932MB-6/10	100 – 300	180	6580
H 932MB-12/14	285 – 400	165	6580

HYVA MANIPULATOR / POLE GRAPPLE

Hyva

Type:

H 930



General Information

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

Type	Load capacity (kg)	Gripping Ø (min./max.) (mm)	Width B (mm)	Number of tines	Self weight (kg)	Closing force (kN)
H 930-500	500	100 / 300	785	1	235	11
H 930-1000	1000	100 / 300	1275	2	310	23
H 930-2000	2000	250 / 600	1365	4	865	25
H 930-3000	3000	250 / 600	1630	6	1085	39

Package consists of: manipulator, HYVA rotator, hydraulic pilot controlled brake, non-return valve

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

Accessories

H 980-2	solenoid valve for additional oil circuit to change over to 3 circuits (for gripping, lifting, turning) when only 2 circuits are available, ready for mounting – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min (do-it-yourself assembly)
H 980-2 c	solenoid valve KM 980-2 complete attachment kit including assembly components, hose guard, hoses and mounting on the KM 930 manipulator – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min

Requirements of Truck Crane

Operating pressure: max. 20 MPa (200 bar)
Pump capacity: 20 to 40 l/min

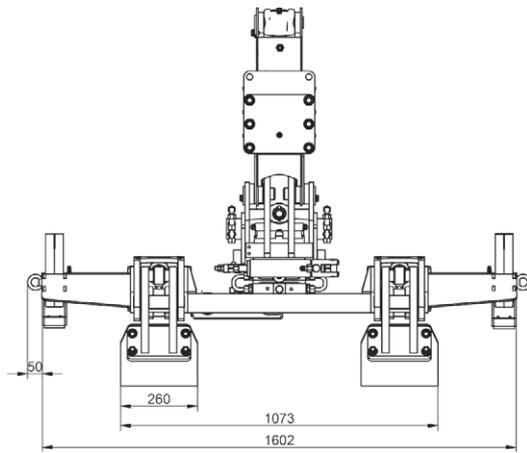
HYVA MANIPULATOR

HYVA 3-AXES-MANIPULATOR

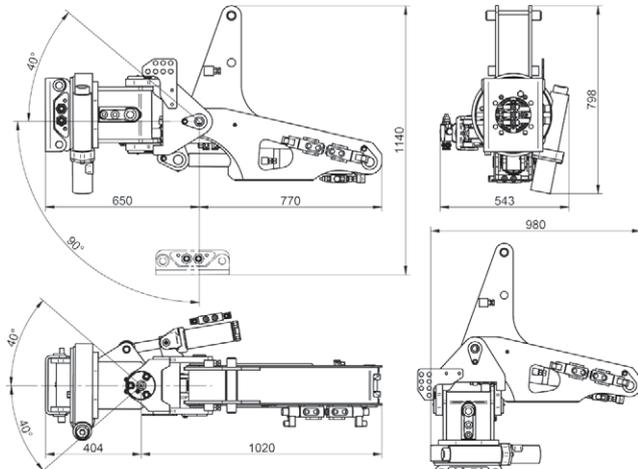
Hyva

Type:

H 930-1000 Special / H 931-1000



H 930-1000 Special



H 931-1000

General Information

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.**



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

Type	Load capacity (kg)	Gripping Ø (min./max.) (mm)	Width B (mm)	Number of tines	Self weight (kg)	Closing force (kN)
H 930-1000 Special	1000	100 / 185	1600	2	285	2 x 16
Exchangeable jaws	---	170 / 220	---	---	---	---

Package consists of: manipulator, HYVA rotator, hydraulic pilot controlled brake, non-return valve
Please note: tubes or poles have to be grabbed always in the centre of gravity

3-Axes-Manipulator H 931-1000

Type	Load capacity (kg)	Slewing angle (°)	Tilting angle (°)	Rotation	Self weight (kg)
H 931-1000	1000	130	±80	360° endless	290

Package consists of: manipulator, HYVA worm drive, hydraulic pilot controlled brake, non-return valve
Please note: tubes or poles have to be grabbed always in the centre of gravity

Accessories

H 980-2	solenoid valve for additional oil circuit to change over to 3 circuits (for gripping, lifting, turning) when only 2 circuits are available, ready for mounting – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min (do-it-yourself assembly)
H 980-2 c	solenoid valve KM 980-2 complete attachment kit including assembly components, hose guard, hoses and mounting on the KM 930 manipulator – 12 V or 24 V, working pressure max. 250 bar, oil flow 60 l/min

Requirements of Truck Crane

Three hydraulic circuits needed

Operating pressure:

Pump capacity:

H 930-1000 Special
 max. 20 MPa (200 bar)
 20 to 30 l/min

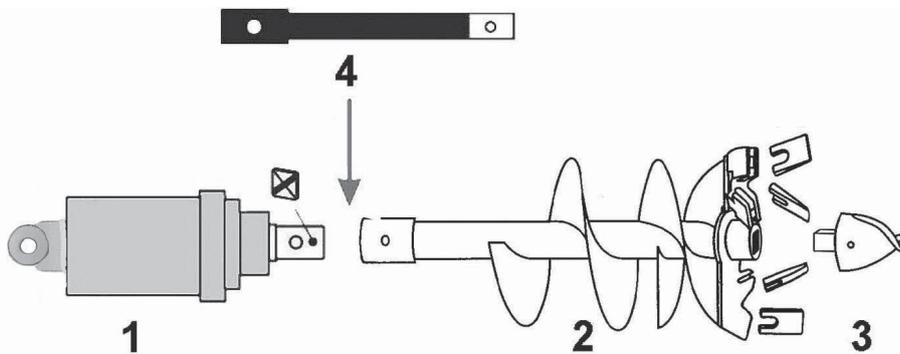
H 931-1000
 max. 20 to 24 MPa (200 to 240 bar)
 20 to 40 l/min

HYVA DRIVE UNITS FOR AUGERS

Hyva

Type:

H 250



drive unit
auger
wear parts (teeth and tip)
extension

General Information

For use on truck mounted cranes, H 250 auger drives are an economical, robust solution for drilling holes for fence posts, poles, foundations and landscaping. Application specific wear parts and augers mean our auger packages are tailor-made to suit your needs.

- **Profitable** – with better speed and precision than alternative drilling methods, the H 250 drive units and augers save you time, labour and filling materials.
- **Adaptable** – A range of drive units with different auger diameters and digging teeth means a H 250 is available for all types of truck cranes, and suitable for a wide variety of applications.
- **Durable** – Designed and built to last, H 250 series drive units can handle hundreds of consecutive cycles.
- **Drive units:** steel housing can withstand high shock loading, robust construction, components run in a maintenance free, constant oil bath, gears can easily be shifted from forward to reverse to quickly free the unit from being jammed.
- **Augers:** teeth are set on a continuous spiral to provide maximum penetration and uniform performance.
- **Wear parts:** rubber locking system makes teeth easy to exchange; using a hammer and punch, tooth exchange is done on-site.
- **Two teeth options:**
 - Allround Teeth – HA-A: made of tempered material, bolt-on teeth are suitable for earth and clay.
 - Strong Tungsten Teeth – HA-S: tungsten tipped, suitable for medium-rich soil, stony or frozen ground, heavy clay or asphalt.



Drive Unit H 250

Type	Torque at 200 bar (Nm)	Torque at 240 bar (Nm)	Pump capacity (l/min)	Output shaft	Self weight (kg)	Recommended type of truck crane (MT)	Upper connection (width x pin-Ø) (mm)
H 250-01	1945	2331	25 - 60	57 mm square	45	7	84 x 30
H 250-03	3733	4473	40 - 75	57 mm square	65	7	84 x 30
H 250-05	4312	5166	60 - 90	57 mm square	80	7	84 x 30
H 250-07	---	7056	80 - 115	57 mm square	95	15	84 x 30

HYVA AUGERS FOR DRIVE UNITS

Hyva	Type:	HA-A / HA-S
Allround auger HA-A 	HA-A 250   	  
Heavy duty auger HA-S 	HA-S 350   	  

Augers HA for Drive Unit H 250

Type	Application	Diameter of auger (mm)	Length of auger (without extension) (mm)	Wear parts type / teeth qty.	Self weight (kg)
HA-150-57A	standard duty	150	1200	A / 2	28
HA-200-57A	standard duty	200	1200	A / 2	31
HA-225-57A	standard duty	225	1200	A / 2	36
HA-250-57A	standard duty	250	1200	A / 2	39
HA-300-57A	standard duty	300	1200	A / 4	46
HA-350-57A	standard duty	350	1200	A / 4	50
HA-400-57A	standard duty	400	1200	A / 6	52
HA-450-57A	standard duty	450	1200	A / 6	54
HA-500-57A	standard duty	500	1200	A / 8	72
HA-600-57A	standard duty	600	1200	A / 8	81
HA-100-57S	heavy duty	100	1200	S / 0	23
HA-150-57S	heavy duty	150	1200	S / 2	28
HA-200-57S	heavy duty	200	1200	S / 2	31
HA-225-57S	heavy duty	225	1200	S / 2	36
HA-250-57S	heavy duty	250	1200	S / 2	39
HA-300-57S	heavy duty	300	1200	S / 4	46
HA-350-57S	heavy duty	350	1200	S / 4	50
HA-400-57S	heavy duty	400	1200	S / 6	52
HA-450-57S	heavy duty	450	1200	S / 6	54
HA-500-57S	heavy duty	500	1200	S / 8	72
HA-600-57S	heavy duty	600	1200	S / 8	81

Package consists of: auger, wear parts (teeth and tip)

Accessories

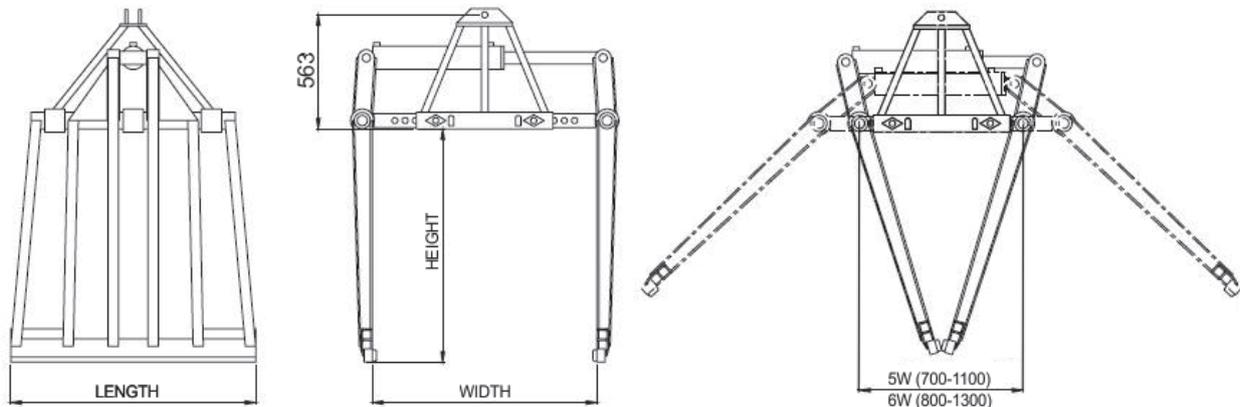
H 501 4500	upper suspension between rotator and crane – load capacity 4500 kg
H 511 4500	upper suspension with pendulum damper – load capacity 4500 kg
HE-1000-57	rigid extension for augers – length 1000 mm (25 kg)
HE-1500-57	rigid extension for augers – length 1500 mm (34 kg)

HYVA PREMIUM BRICK CLAMP K-LINE

Hyva

Type:

Premium



General Information

Hyva Premium 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 flat stowing.
- Cylinder RAL1023, Clamp RAL9005



Premium Brick Clamp K-Line

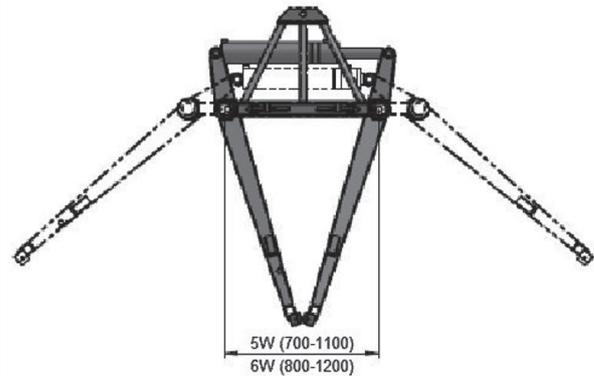
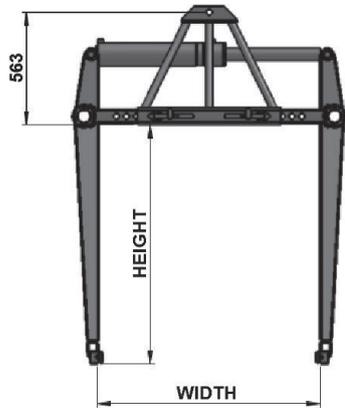
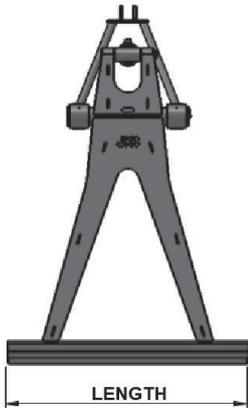
Hyva code	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve + Manometer (V)
85997000	PREMIUM L1000-H1150-5W-0-0	700 – 1100	1000	1150	420	no	no
85997010	PREMIUM L1000-H1150-5W-P-0	700 – 1100	1000	1150	430	yes	no
85997020	PREMIUM L1000-H1150-5W-0-V	700 – 1100	1000	1150	420	no	yes
85997030	PREMIUM L1000-H1150-5W-P-V	700 – 1100	1000	1150	430	yes	yes
85997040	PREMIUM L1000-H1150-6W-0-0	800 – 1300	1000	1150	435	no	no
85997050	PREMIUM L1000-H1150-6W-P-0	800 – 1300	1000	1150	445	yes	no
85997060	PREMIUM L1000-H1150-6W-0-V	800 – 1300	1000	1150	435	no	yes
85997070	PREMIUM L1000-H1150-6W-P-V	800 – 1300	1000	1150	445	yes	yes
85997100	PREMIUM L1200-H1150-5W-0-0	700 – 1100	1200	1150	430	no	no
85997110	PREMIUM L1200-H1150-5W-P-0	700 – 1100	1200	1150	440	yes	no
85997120	PREMIUM L1200-H1150-5W-0-V	700 – 1100	1200	1150	430	no	yes
85997130	PREMIUM L1200-H1150-5W-P-V	700 – 1100	1200	1150	440	yes	yes
85997140	PREMIUM L1200-H1150-6W-0-0	800 – 1300	1200	1150	445	no	no
85997150	PREMIUM L1200-H1150-6W-P-0	800 – 1300	1200	1150	455	yes	no
85997160	PREMIUM L1200-H1150-6W-0-V	800 – 1300	1200	1150	445	no	yes
85997170	PREMIUM L1200-H1150-6W-P-V	800 – 1300	1200	1150	455	yes	yes
85997200	PREMIUM L1300-H1150-5W-0-0	700 – 1100	1300	1150	440	no	no
85997210	PREMIUM L1300-H1150-5W-P-0	700 – 1100	1300	1150	450	yes	no
85997220	PREMIUM L1300-H1150-5W-0-V	700 – 1100	1300	1150	440	no	yes
85997230	PREMIUM L1300-H1150-5W-P-V	700 – 1100	1300	1150	450	yes	yes
85997240	PREMIUM L1300-H1150-6W-0-0	800 – 1300	1300	1150	455	no	no
85997250	PREMIUM L1300-H1150-6W-P-0	800 – 1300	1300	1150	465	yes	no
85997260	PREMIUM L1300-H1150-6W-0-V	800 – 1300	1300	1150	455	no	yes
85997270	PREMIUM L1300-H1150-6W-P-V	800 – 1300	1300	1150	465	yes	yes

HYVA PREMIUM PLUS BRICK CLAMP K-LINE

Hyva

Type:

Premium Plus



General Information

Hyva Premium Plus, light weight 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 flat stowing.
- Cylinder RAL1023, Clamp RAL9005



Premium Plus Brick Clamp K-Line

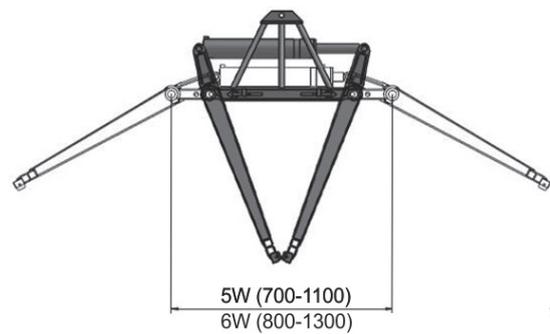
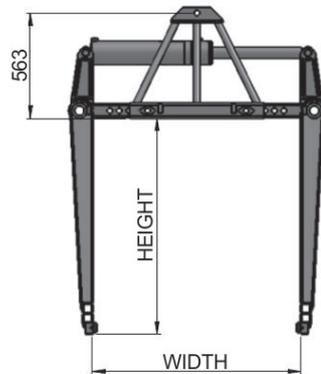
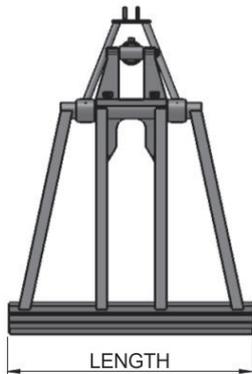
Hyva code	Description	Width	Length	Height	Weight	Parallel Guide	Relief valve + Manometer
		(mm)	(mm)	(mm)	(kg)		
85998110	PREMIUMPLUS L1000-H1150-5W-0-0	700 – 1100	1000	1150	290	(P) no	(V) no
85998120	PREMIUMPLUS L1000-H1150-5W-P-0	700 – 1100	1000	1150	300	yes	no
85998130	PREMIUMPLUS L1000-H1150-5W-0-V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

HYVA POWER BRICK CLAMP K-LINE

Hyva

Type:

Power



General Information

Hyva Power 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 flat stowing.
- Cylinder RAL1023, Clamp RAL9005



POWER Brick Clamp K-Line

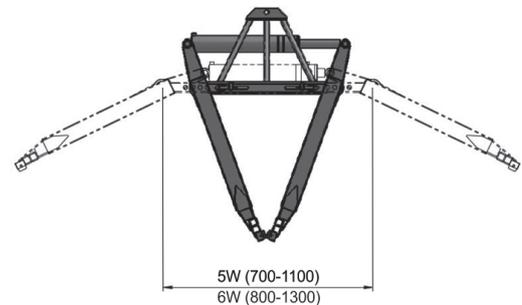
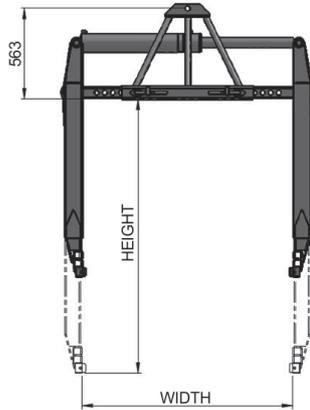
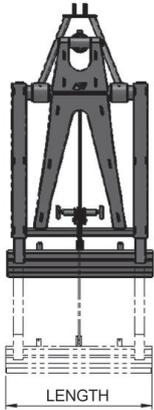
Hyva code	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve + Manometer (V)
85997300	POWER L1000-H1150-5W-0-0	700 – 1100	1000	1150	390	no	no
85997310	POWER L1000-H1150-5W-P-0	700 – 1100	1000	1150	400	yes	no
85997320	POWER L1000-H1150-5W-0-V	700 – 1100	1000	1150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

HYVA JUNIOR POWER BRICK CLAMP K-LINE

Hyva

Type:

Junior Power



General Information

Hyva Junior Power 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 flat stowing.
- Cylinder RAL1023, Clamp RAL9005



JUNIOR POWER Brick Clamp K-Line

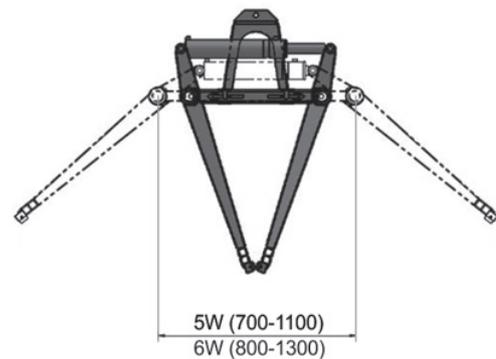
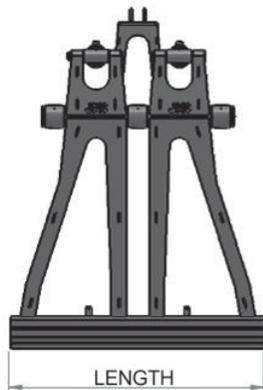
Hyva code	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve + Manometer (V)
85997600	HA JUN POWER L1000-H1150-5W-0-0	700 – 1100	1000	1100-1700	445	no	no
85997610	HA JUN POWER L1000-H1150-5W-P-0	700 – 1100	1000	1100-1700	475	yes	no
85997620	HA JUN POWER L1000-H1150-5W-0-V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

HYVA TWIN BRICK CLAMP K-LINE

Hyva

Type:

Twin



General Information

Hyva Twin 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 flat stowing.
- Cylinder RAL1023, Clamp RAL9005



TWIN Brick Clamp K-Line

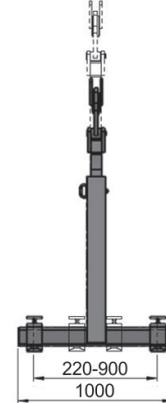
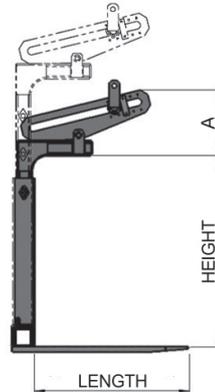
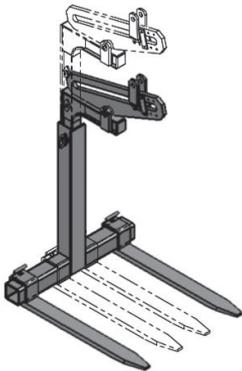
Hyva code	Description	Width (mm)	Length (mm)	Height (mm)	Weight (kg)	Parallel Guide (P)	Relief valve + Manometer (V)
85997800	TWIN L1000-H1150-5W-0-V	700 – 1100	1000	1150	465	no	yes
85997810	TWIN L1000-H1150-5W-P-V	700 – 1100	1000	1150	495	yes	yes
85997840	TWIN L1000-H1150-6W-0-V	800 – 1300	1000	1150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

HYVA PALLET FORK K-LINE

Hyva

Type:

Pallet Fork 2.5 T & 3.3 T



General Information

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 flat stowing.
- Pallet fork: RAL9005.



PALLET FORK K-Line

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

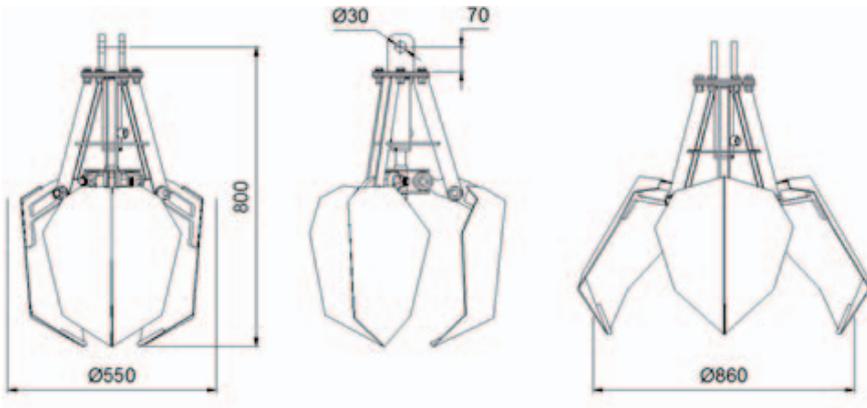
HYVA AGRI CLAMP

NEW

Hyva

Type:

AGRI 503



General Information

Hyva AGRI 503 is a 3 jaw grab with a volume of 50 liter, specially designed for agricultural purposes like picking up fruit.

Working pressure: 90 bar.

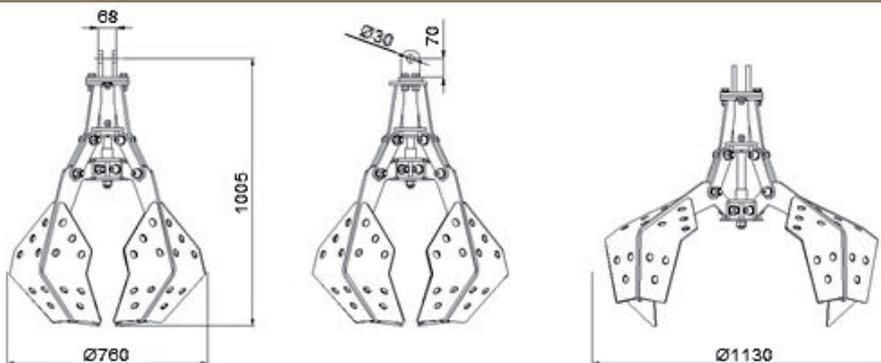
AGRI Clamp 503

Hyva code	Description	Closing Force	Length	Working pressure	Oilflow	Weight
		(kN)	(mm)	(bar)	(l/min)	(kg)
85998900	AGRI 503 CLAMP	1,2	800	90	10-12	35

Hyva

Type:

AGRI 1004



General Information

Hyva AGRI 1004 is a 4 jaw grab with a volume of 100 liter, specially designed for agricultural purposes like picking up fruit.

Working pressure: 160 bar.

AGRI Clamp 1004

Hyva code	Description	Closing Force	Length	Working pressure	Oilflow	Weight
		(kN)	(mm)	(bar)	(l/min)	(kg)
85998900	AGRI 1004 CLAMP	4	1005	160	10-12	70

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