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Holmatro

industrial tools & systems



 **holmatro**
mastering power



Mastering power

Holmatro products are all about the principle that only controlled power can be deployed effectively. We have expressed this vision in the slogan 'Mastering Power' which applies perfectly to both business units that together form the Holmatro Group. Industrial Equipment is about applying and mastering high pressure power in heavy industrial and marine applications. And with Rescue Equipment it is a matter of life and death for fire brigades and rescue organisations to work in a controlled, precise and well-thought-out way with the proper equipment.

www.holmatro.com



Scan the Holmatro
company movie



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Holmatro, founded in the Netherlands in 1967, originally traded in high-pressure hydraulic tools for the shipbuilding industry. Nowadays we design, develop, manufacture and deliver mainly hydraulic products that are used by various user groups all over the world. Our strategy, products and service are aimed at helping customers to succeed in mastering the power they need.

The current organization, the Holmatro Group, comprises two business units; Industrial Equipment en Rescue Equipment.

Industrial Equipment is specialist in the field of high pressure hydraulic, pneumatic and mechanical tools. The extensive product range includes cylinders, pumps and systems for generating and controlling precision power in various industrial applications, cutters for recycling and demolition work, foundry wedges for the metal industry and also on-board hydraulics meeting the needs of modern and classic yacht sailors. In addition to standard tools, Industrial Equipment has a proven track record in the field of special projects and service.

Rescue Equipment is global market leader in the area of rescue tools that are renowned for their high quality and performance. The hydraulic cutters, spreaders, rams and pumps are used by various services, including fire departments and rescue organisations.

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The power of innovation

In order to maintain our leading position as a specialist in high pressure hydraulics, we continuously invest in research and product development. It is our ambition to continue to develop innovative solutions combining extreme power with controllability, user friendliness and safety. Our product development is fully focused on finding result-oriented solutions for specific markets and applications. To achieve this, we closely work together with you, the professional user.

Quality in everything we do

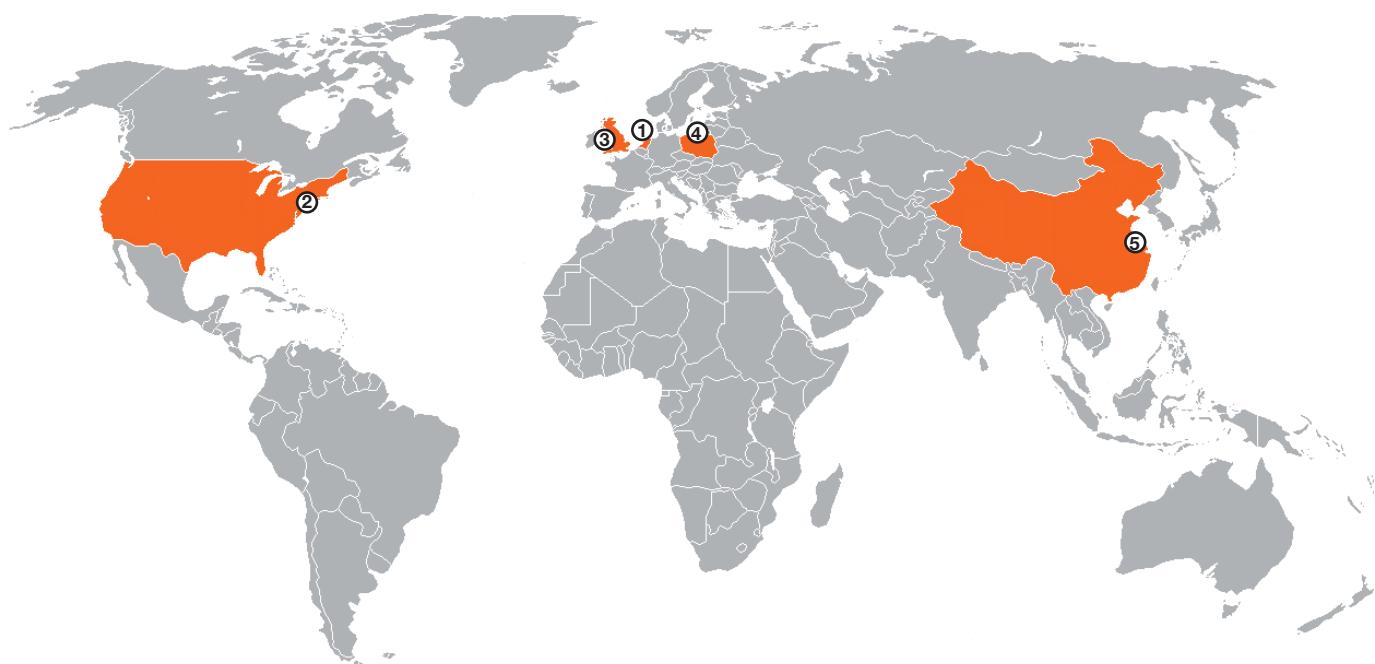
At Holmatro we work according to the ISO 9001 Quality Management Standard and the SCA* Safety Health and Environment management system. Our products comply with all international standards such as the European EN 13204, EN 13731 and the American NFPA 1936. Holmatro tools are developed, manufactured and maintained in conformity with the highest quality standards of durability, side load, mechanical distortion and overpressure. As they must be resistant to the most extreme conditions, our products are thoroughly tested before they are authorised for use in practice.



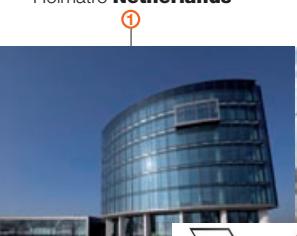
(Inter)national sales network

Our experience of many years and in-house engineering enable us to provide you with expert advice on both our products and applications. Our sales organisation and dealers - fully trained in our own training centre - guarantee the same Holmatro standard of quality.

Besides the head office in the Netherlands, Holmatro has manufacturing plants and sales offices in the Netherlands and the United States and representative offices in the United Kingdom, Poland and in the People's Republic of China.



Holmatro **Netherlands**



Holmatro **USA**



Holmatro **UK**



Holmatro **Poland**



Holmatro **China**



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Holmatro's industrial products and systems

The needs of our customers inspire us to develop new solutions for even more efficiency in generating and mastering precision power. These pages illustrate some examples of applications of our industrial products and systems. New applications are added every day.





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Pascal's law

Pressure applied at any point upon a confined liquid is transmitted undiminished in all directions. (Fig. 1 and 2).

Figure 1

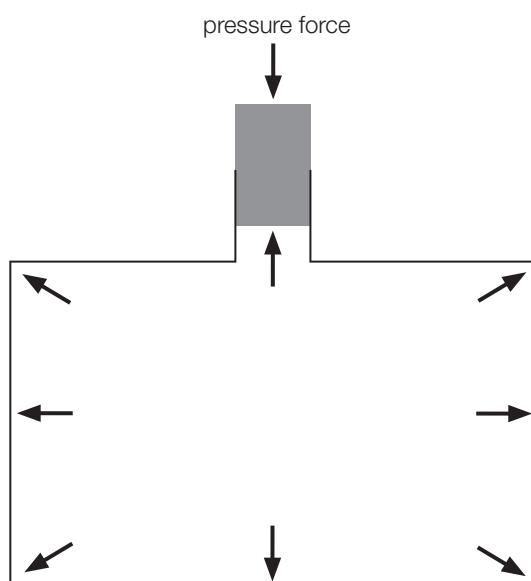
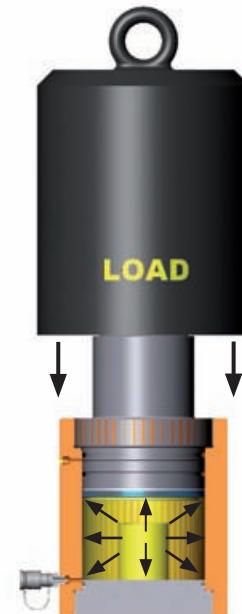


Figure 2



According to Pascal's law, the oil flow always chooses the line of least resistance in a hydraulic system. This means that when using several hydraulic cylinders, each cylinder lifts at its own speed. When the cylinders have the same capacity, they will first start moving at the point of the lightest load and last at the point of the heaviest load (Fig. 3).

A valve block must be added to the lifting system to make sure that the oil flow can be controlled such, that all cylinders operate evenly and the load can be lifted horizontally (Fig. 4).

Figure 3

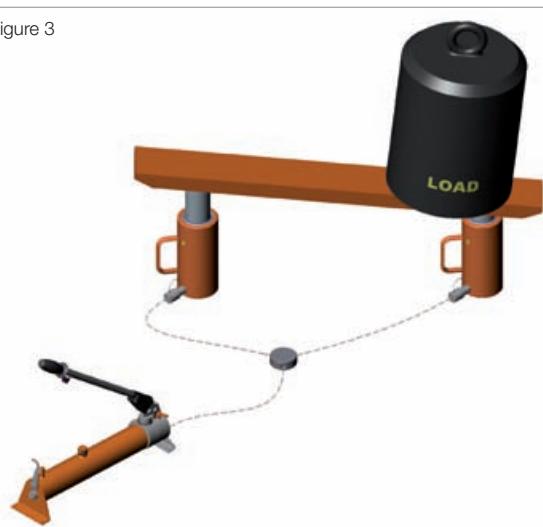
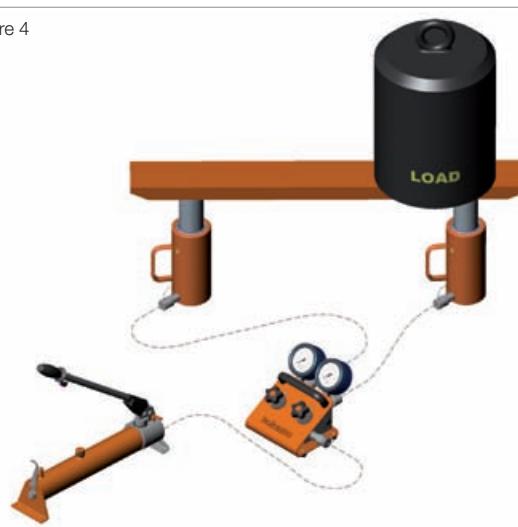


Figure 4



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Recommended total cylinder capacity

In connection with various uncertainties as mentioned below, Holmatro recommends a system with sufficient extra capacity:

- the exact weight of the load
- the spreading of the load among the cylinders
- possible moving of the load in case of calamities


→ Symmetric load:

Recommended total cylinder capacity = 1.5 x load


→ Asymmetric load:

Recommended total cylinder capacity = 2 x load

Force of a cylinder

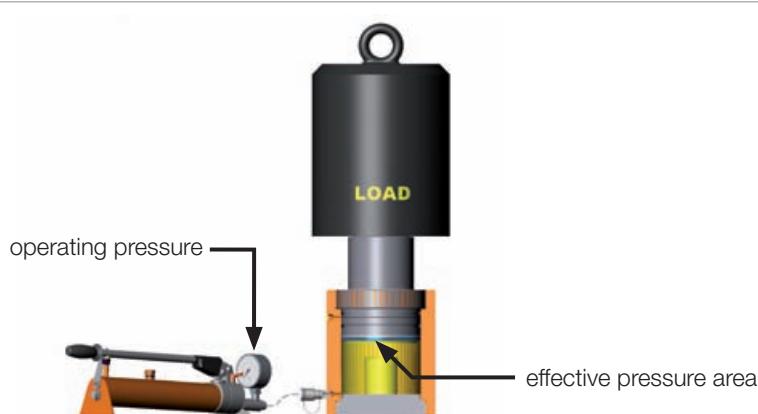
The force (capacity) generated by a cylinder is equal to the hydraulic pressure multiplied by the effective pressure area of the plunger.

Force (N) = hydraulic operating pressure (N/cm²) x effective pressure area of the plunger (cm²).

$$\begin{array}{rcl} F & = & P \\ P & = & F \\ A & = & F \end{array}$$

$$\begin{array}{l} x \quad A \\ / \quad A \\ / \quad P \end{array}$$

This formula can be used for determining the force, pressure or the area when two out of three variables are known.



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Minimum effective tank volume of pump

Minimum effective tank volume of pump = (oil volume of cylinder 1 + 2 + ...) x 1,2 (safety margin)

Oil volume of cylinder:

The volume in cm³ required for achieving the full stroke of the cylinder. For further specification see section 'Hydraulic cylinders', page 23.

NB. For double-acting cylinders : Reduce the volume above the piston section with the volume under the piston section.

**Required** operating speed

Operating speed = oil volume of cylinders 1 + 2 + ...
pump output

Operating speed:

With hand/foot pumps: the number of pump strokes required for fully pumping out the cylinder. With motor pumps: the number of minutes required for fully pumping out the cylinder.

Oil volume of cylinders:

With hand/foot pumps: the volume in cm³ required for achieving the full cylinder stroke. With motor pumps: the volume in litres required for achieving the full cylinder stroke. See table on product pages.

NB. When two figures are given, only take the value for below or above the piston part.

Pump output:

With hand/foot pumps: the output of the pump in cm³/stroke. With motor pumps: the output of the pump in l/min. See tables in section 'Hydraulic pumps', page 109 for the output of your pump.

Important conversion factors

1	bar	=	1,10197	kg/cm ²
1	bar	=	14,504	psi
1	bar	=	100	kPa
1	bar	=	0,1	MPa
1	bar	=	10	N/cm ²
1	ton	=	9,80665	kN
1	ton	=	9806,65	N
1	ton	=	1000	kg
1	cm ²	=	0,155	in ²
1	cm ³	=	0,06102	in ³
1	cm ³	=	0,001	l
1	kgf	=	9,8066	N
1	kg	=	2,2046	lb

1	kg/cm ²	=	0,98066	bar
1	psi	=	0,0689	bar
1	kPa	=	0,01	bar
1	MPa	=	10	bar
1	N/cm ²	=	0,1	bar
1	kN	=	0,1020	ton
1	N	=	0,0001	ton
1	kg	=	0,001	ton
1	in ²	=	6,4516	cm ²
1	in ³	=	16,3881	cm ³
1	l	=	1000	cm ³
1	N	=	0,1020	kgf
1	lb	=	0,4536	kg



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Systems and specials



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Custom-made cylinders

Our extensive range of standard cylinders offers outstanding solutions for the majority of lifting, pushing and pulling applications. However, since every situation is unique, we can also be approached for customised solutions for your specific application and circumstances.

For instance, consider extreme conditions such as heavy and constant loads, high temperatures or a corrosive environment with, for example, a great deal of sand, seawater or acids.

Other custom-made cylinder specifications:

- stroke length
- closed height
- return type
- surface treatment
- type of material
- fixing thread on cylinder housing
- fixing holes in cylinder base
- various width in hollow cylinders
- etc.

Holmatro commands all disciplines that are required for the production of custom-made work in-house. Our sales engineers study the requirements that the cylinder must meet, our developers create the technical side of the desired solution, and we also have the specialists and facilities for the eventual production.



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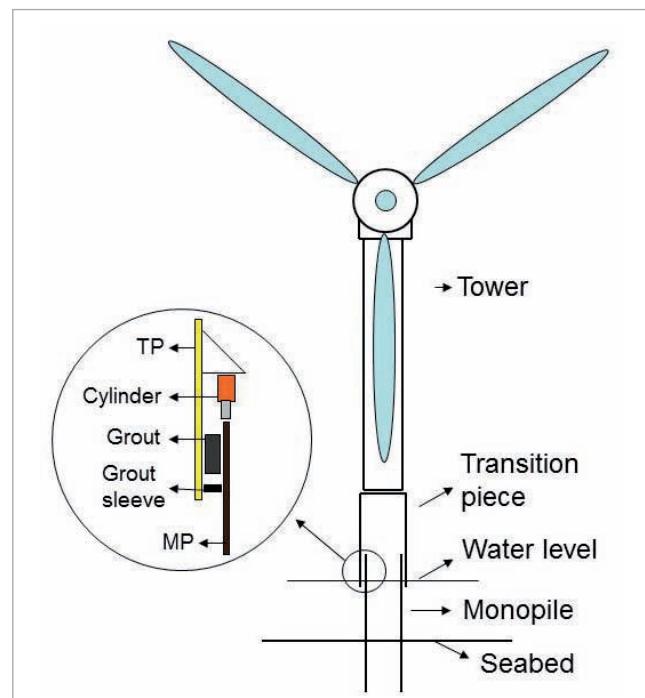


Offshore wind levelling cylinders

Our lightweight hydraulic cylinders are ideally suited to ensuring that the foundations of wind turbines are level. These foundations frequently consist of a "monopile" (MP) that is driven into the seabed, with a "transition piece" (TP) mounted on top.

Hydraulic cylinders are used to completely level the TP, so that the turbine to be placed on top of it can function optimally. Holmatro's offshore wind levelling cylinders, made from aluminium, are fitted with special seals and a corrosion-resistant coating on the cylinder housing, the plunger and the couplings.

TP levelling-set	
image	description
	aluminium or steel cylinder
	6-way valve block (FlowPanel™)
	remote-controlled pump
	dump tank



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TP levelling-set



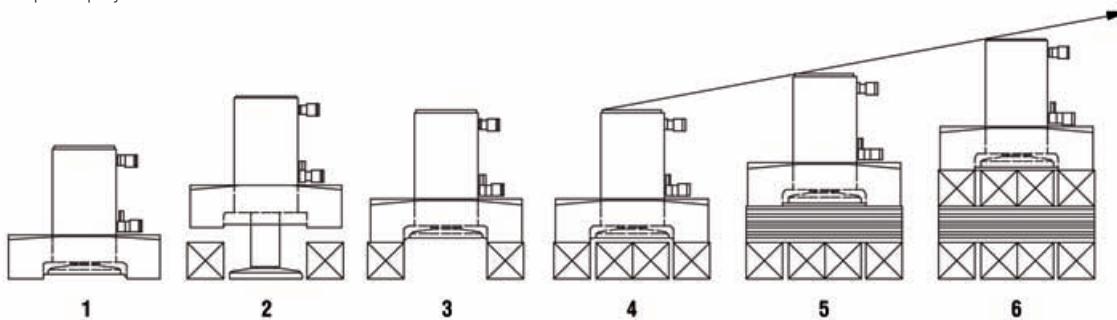
Step cylinders for the vertical movement of loads

Especially for those situations in which greater vertical movement of the load is required than can be achieved with standard cylinders, Holmatro supplies client-specific step cylinders. These cylinders, with a capacity of 25 to 300 tons or more, are fitted with a step plate, a plunger with a stroke length varying from 125 to 200 mm and an enlarged saddle. The cylinder moves upwards with the load which increases stability during lifting. Large objects, such as oil tanks, can be lifted with the aid of step cylinder systems, they can subsequently be held at heights and then be lowered for maintenance, all without the use of a crane.

Step cylinders

model	customer-specific
art no	customer-specific
working pressure	bar/Mpa
720 / 72	
tonnage	t
25 t/m 300	
stroke length	mm
125 t/m 200	
return	hydraulic
capacity	kN
238,9 t/m 2933	
capacity	t
24,4 t/m 299	
material	steel / aluminium
recommended pump	vari pump

Operating principle step cylinders



Features / important properties

- double-acting
- protected against ejection of the plunger
- lightweight construction, high lifting capacity

Available on request

- step cylinders with different:
 - tonnage
 - stroke length
 - step plate dimensions
- tilting saddle



Step cylinder



Skidding systems for the horizontal movement of heavy loads

Besides the usual vertically oriented applications such as hoisting and lifting, Holmatro is also concentrating on the horizontal movement of heavy loads. Your specific application is at the heart of the development and production of heavy transport solutions. Holmatro's configurable skidding system is suitable for the movement of industrial objects of exceptional sizes and weights to locations where the use of a crane is not one of the standard options.

Starter kit

This kit can be used to install 2 tracks of 8 m, each with its own beam and push/pull unit. This gives you a skidding system with a capacity of $2 \times 200 = 400$ tons and a step size of 50 cm. The proposed pump has 2 identical flows (oil output) that can be controlled independently of each other.

Starter kit	
image	description
	push/pull unit (2x) l x w x h: 930 x 400 x 175 mm weight: 110 kg
	beam (2x) l x w x h: 3000 x 310 x 150 weight: 350 kg
	track (8x) l x w x h: 2000 x 550 x 150 mm weight: 170 kg
	hoses (4x) length: 1000 mm weight: 5 kg
	pump 400V l x w x h: 400 x 300 x 541 mm weight: 52 kg



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Ship launching sets

Launching a ship sideways into the water safely in an extremely controlled manner is possible with the aid of Holmatro's custom-made hydraulic cylinder sets. One set consists of a cylinder with an electrical quick relief valve, a hand pump with a pressure gauge and a 5 metre hose, and a 5 litre tank with a large diameter connection hose. 4, 6, 8 or more of these sets, combined with an electrical control unit are required for launching, dependent on the conditions and the dimensions of the ship.

The procedure

Before a ship is launched, all support materials such as ship wedges are taken away. The ship then only rests on a number of 'sleds' that are fixed between two support points with the aid of pumped out cylinders. Each cylinder is connected to a tank by means of a large diameter hose. The system is kept under pressure by keeping the quick relief valves on the cylinders closed.

The launch is started by opening all quick relief valves simultaneously from a safe distance. The hydraulic oil then flows from the cylinders into the tanks. This is when the ship starts to move. While the cylinder plungers return due to the weight, and fall over within a few seconds, the ship gradually slides safely into the water.

Features / important properties



- working pressure 720 bar (72 Mpa)
- capacity in accordance with customer specifications
- stroke length in accordance with customer specifications
- other pump types available besides hand pump
- each cylinder is fitted with an electrical quick relief valve

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Ship launching set

Special projects

Holmatro has a proven record of service in relation to custom-made solutions for special projects. For example:

Programmable lifting system

In a programmable lifting system, the hydraulic movement of extremely heavy objects is combined with control and monitoring. With manual control it is inevitable that differences will occur between the lifting points because measurement of the movement and monitoring of the lifting points are never optimum. This can eventually lead to irreversible damage that must be prevented in order to guarantee safety. Holmatro's programmable lifting system deals with this problem. The software supplied enables you to control the load with extreme precision, regardless of the weight distribution. The system registers all movements and loads throughout the process and saves these data in order to make it available for your report. The combination of maximum lifting capacity and refined precision and safety is used in large projects. For example, the (level) placement of bridge elements, buildings and constructions, the lifting and moving of ship segments during assembly, to the building and maintenance of drilling installations.

Features / important properties

- vari pump type in accordance with customer specifications
- cylinder type in accordance with customer specifications
- control unit with software and user interface
- pump is fitted with return control

Specifications

- working pressure 720 bar
- measuring accuracy 0.25%
- pump yield $\geq 0.6 \text{ en} \leq 1.8 \text{ l/min.}$
- number of lifting points (4 - 64)



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Rerailing system

Putting a derailed train back onto the tracks is not an easy task and is very time-consuming. The Holmatro rerailing system offers a fast, accurate and safe solution. You are guaranteed that the track can be used again as fast as possible, thereby reducing your downtime costs to a minimum. With Holmatro's hydraulic rerailing system it is possible to lift even the heaviest rail vehicle and place it back on the rails effortlessly. A vari pump, type quattro with four separate outlets, ensures that the connected cylinders release equally. The cylinders are fitted with special return valves that ensure that the descent is safe and smooth. The combination of this special pump and cylinders makes it possible to move the cylinders simultaneously and to control them from a safe distance without further manual intervention. The system can be configured and we are happy to advise you in relation to the specific composition that matches your specific requirements.

Features / important properties



- working pressure 500 bar (50 Mpa)
- cylinder capacity in accordance with customer specifications
- cylinder stroke length in accordance with client specifications
- each cylinder is fitted with a return valve
- other vari pump types are available

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Hydraulic cylinders



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holmatro

Step 1: select one or more cylinders

Considerations:

- what is the weight of the load to be lifted?
- what is the total recommended cylinder capacity? (see page 13)
- with how many cylinders must/can the load be lifted?
- what capacity for each cylinder is required then?
- what is the required stroke length of the cylinder?
- what is the required closed height (overall dimensions) of the cylinder?
- how must the plunger return; gravity, spring, pneumatic or hydraulic?



Scan the
CylinderFinder

See 'Selection list cylinders', page 29, 30 and 31.

Step 2: select the proper pump

Considerations:

- select from hand , foot , pneumatically, electrically, petrol or diesel driven pumps
- hand / foot pumps: with a double-acting cylinder (hydraulic return), mount a double-acting valve on your hand pump (only possible with H/FTW *800 B models)
- Vari pumps: dependent on whether you use a single- or double-acting cylinder, mount a single-acting or double-acting valve on the Vari pump
- what minimum tank volume of the pump is required? (see page 14)
- select a pump output corresponding with the required operating speed (see page 14)

See section 'Hydraulic pumps', page 109.

Step 3: select the accessories you need

Considerations:

- choose the correct number of hoses that you need and the required length. Take the required (safe) distance between cylinders and operation (pump and/or valve block) into account
- when the system contains several cylinders controlled by one pump, we recommend you to install a valve block between the cylinders and the pump for accurate control of the oil flow to the cylinders
- select any necessary couplers, pressure gauges, valves and / or assembly material

See section 'System components', page 127.

Any questions? Our sales department is happy to be of assistance!

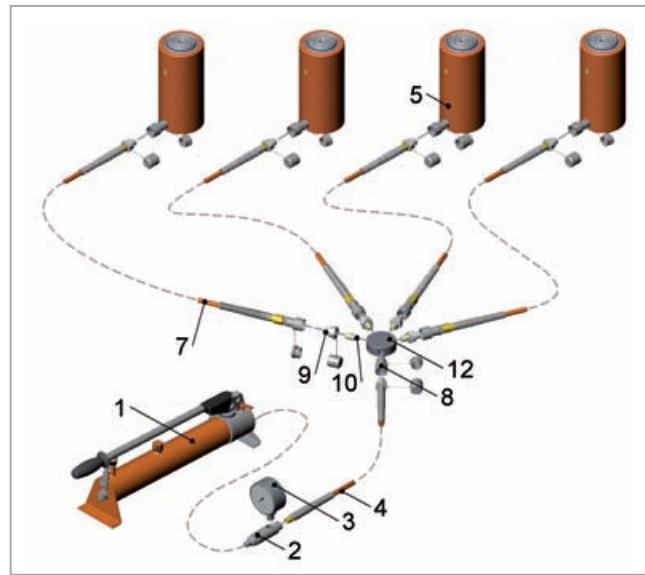
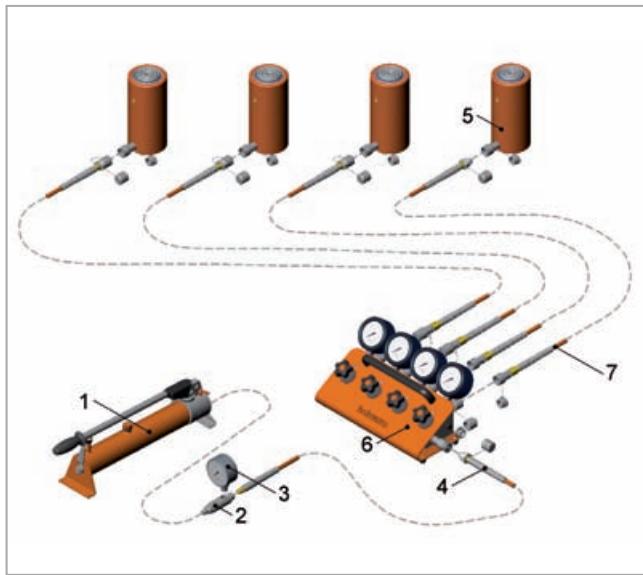
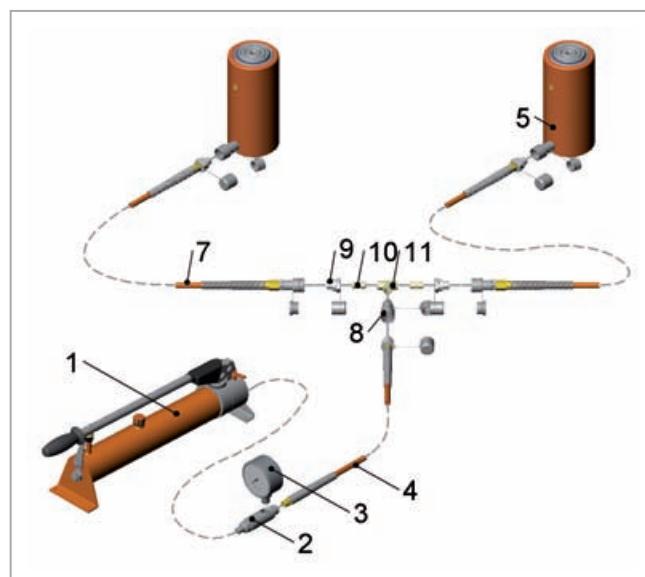
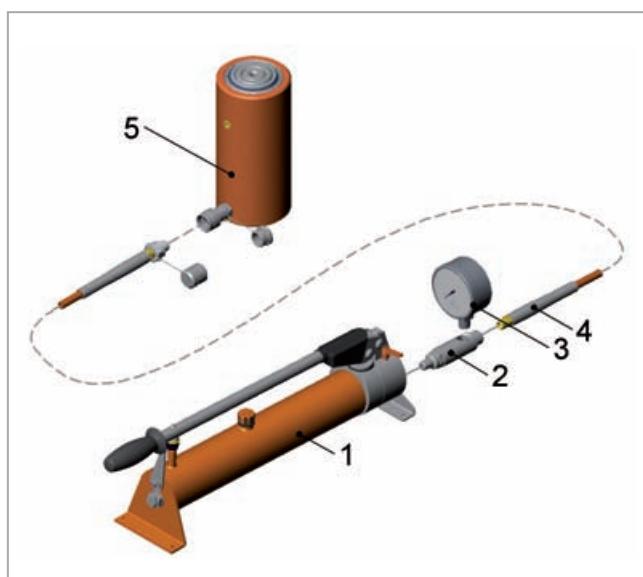
The next page shows four examples of a hydraulic cylinder system.



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Composition of hydraulic cylinder system


no	description	art no	page
1.	hand pump HTW 1800 B	100.141.005	112
2.	pressure gauge connecting block A 108	100.181.108	131
3.	pressure gauge A 500	100.582.500	130
4.	hydraulic hose H 2 SOU	100.572.102	128
5.	single-acting cylinder		
6.	hydraulic hose VL 5 SOU	100.572.305	128
7.	High Flow coupler, female, A 118	100.181.118	129
8.	High Flow coupler, male, A 119	100.181.119	129
9.	nipple 3/8" NPT, male	100.581.101	136
10.	T-piece	100.581.106	135
11.	manifold	100.181.125	135
12.	valve block HMS 4 C	100.172.047	132



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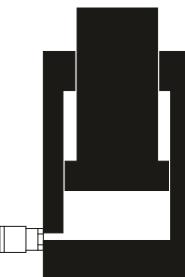
The Holmatro product range includes over 100 different cylinders in 15 different types and 4 different return types. A short explanation about the standard return types and the models will be given below.

Various return types

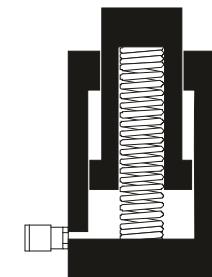
Gravity return

Return of the plunger by means of the load or another external force.

Gravity return



Spring return



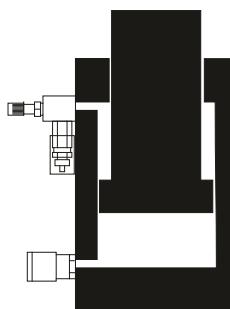
Spring return

Return of the plunger by means of a spring integrated in the cylinder.

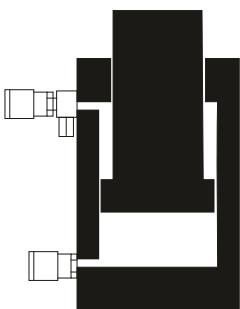
Air return

Return of the plunger by means of a chamber filled with compressed air (6 bar) in the cylinder.

Air return



Hydraulic return



Hydraulic return

Return of the plunger by means of hydraulic pressure. Cylinders in which the plunger hydraulically extends and returns are also called 'double-acting' cylinders.

Various cylinder types

Aluminium cylinders - spring return

Cylinders with up to 50% less weight than the steel equivalent, with a lifting capacity of 20 to 100 tons and a stroke length varying between 50 and 150 mm. Very suitable for lifting activities requiring frequently moving the cylinder, making a low weight essential.



Aluminium cylinders - air return

Cylinders with unique air return by means of compressed air (6 bar), 50% less weight than steel cylinders and a lifting capacity of 50 tons. Very suitable for lifting activities requiring frequently moving the cylinder, making a low weight essential.



Flat cylinders - short stroke, spring return

Cylinders with a very low construction height and a lifting capacity of 5 - 150 tons. Especially developed for, among other things, adjusting heavy engines, machines, presses, etc.



Telescopic cylinders - gravity return

Cylinders with a very low construction height, two different capacities and stroke lengths in one cylinder. Very suitable for various adjustment activities.


Short stroke cylinders - spring return

Cylinders with a short stroke and a low construction height and a lifting capacity of 10 - 100 tons. Very suitable for general lifting activities.


Cylinders (standard) - gravity return

Cylinders with a lifting capacity of 10 - 500 tons and a stroke length varying between 50 and 300 mm. Suitable for normal to heavy lifting activities.


Locknut cylinders - gravity return

Cylinders with mechanical load locking, a lifting capacity of 10 - 500 tons and a stroke length of 150 mm. Suitable for sustained load because of mechanical load locking.


Cylinders (standard) - spring return

Cylinders with a lifting capacity of 50 - 100 tons and a stroke length varying between 50 and 250 mm. Suitable for normal to heavy lifting activities.


Cylinders (standard) - hydraulic return

Cylinders with a lifting capacity of 50 - 500 tons and a stroke length varying between 50 and 300 mm. Very suitable for heavy lifting activities.



Assembly cylinders - spring return

Cylinders specifically for assembly into a construction with a lifting capacity of 5 - 25 tons and a stroke length varying between 50 and 350 mm. Especially developed for integration in a construction using the screw thread on the housing. Adjustable to the working conditions using the mounting and/or welding rings.



Construction cylinders - spring return

Cylinders especially for use in combination with extension pipes and accessories, with a lifting capacity of 10 - 25 tons and a stroke length varying between 60 and 250 mm. These cylinders can be extended using pipes. Various accessories are available. This cylinder type is also suitable for assembly into a construction.



Construction cylinders - hydraulic return

Cylinders especially for use in combination with extension pipes and accessories, with a lifting capacity of 10 - 25 tons and a stroke length varying between 150 and 250 mm. These cylinders can be extended using pipes. Various accessories are available. This cylinder type is also suitable for assembly into a construction.



Hollow plunger cylinders - spring return

Cylinders with hollow plunger for both pushing and pulling, with a capacity of 5 - 110 tons and a stroke length varying between 25 and 150 mm. Especially developed for pulling using pulling rods.



Hollow plunger cylinders - hydraulic return

Cylinders with hollow plunger for both pushing and pulling, with a capacity of 30 - 100 tons and a stroke length varying between 100 and 200 mm. Especially developed for pulling using pulling rods.



Pulling cylinders - spring and hydraulic return

Cylinders with a pulling capacity of 11 - 100 tons and a stroke length of 150 mm. Especially developed for, among other things, pulling heavy objects towards each other.



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Selection list cylinders

tonnage	closed height	stroke length	return	type	model	art no	page
t	mm	mm					
5	31	5	gravity	flat	HFC 5 S 0.5	100.112.168	38
	44	15	gravity	flat	HFC 5 S 1.5	100.112.181	38
	157	75	spring	assembly	HTJ 5 S 7.5	100.112.003	62
	202	120	spring	assembly	HTJ 5 S 12	100.112.004	62
10	46	15	gravity	flat	HFC 10 S 1.5	100.112.184	38
	49	41 / 20	gravity	telescopic	HFJ 10/30 G 4	100.111.005	44
	100	50	spring	standard	HSC 10 S 5	100.112.0164	42
	110	50	gravity	standard	HJ 10 G 5	100.112.012	46
	135	50	spring	assembly	HTJ 10 S 5	100.112.020	62
	185	100	spring	assembly	HTJ 10 S 10	100.112.015	62
	202	60	spring	construction	HCJ 10 S 6	100.112.062	66
	255	150	spring	assembly	HTJ 10 S 15 C	100.112.022	62
	270	150	gravity	lock nut	HJ 10 G 15 SN	100.082.003	52
	292	150	spring	construction	HCJ 10 S 15	100.112.063	66
	305	212	spring	assembly	HTJ 10 S 20	100.112.097	62
	338	150	hydraulic	construction	HCJ 10 H 15	100.122.066	68
	398	250	spring	construction	HCJ 10 S 25	100.112.064	66
20	55	15	gravity	flat	HFC 20 S 1.5	100.112.185	38
	102	50	gravity	standard	HJ 20 G 5	100.112.032	46
	103	50	spring	standard	HSC 20 S 5	100.112.171	42
	140	111 / 55	gravity	telescopic	HJ 20/50 G 11	100.112.103	44
	164	50	spring	aluminium	HAC 20 S 5	100.112.150	32
	214	100	spring	aluminium	HAC 20 S 10	100.112.149	32
	264	150	spring	aluminium	HAC 20 S 15	100.112.137	32
25	137	50	spring	assembly	HTJ 25 S 5	100.112.098	64
	187	100	spring	assembly	HTJ 25 S 10	100.112.042	64
	237	150	spring	assembly	HTJ 25 S 15 C	100.112.026	64
	283	150	gravity	lock nut	HJ 25 G 15 SN	100.082.002	52
	323	150	spring	construction	HCJ 25 S 15	100.112.065	66
	350	150	hydraulic	construction	HCJ 25 H 15	100.122.067	68
	360	250	spring	assembly	HTJ 25 S 25	100.112.027	64
	460	350	spring	assembly	HTJ 25 S 35	100.112.028	64
	450	250	hydraulic	construction	HCJ 25 H 25	100.122.068	68
30	50	5	gravity	flat	HFc 30 S 0.5	100.112.187	38
	60	15	gravity	flat	HFC 30 S 1.5	100.112.186	38
	106	50	spring	standard	HSC 30 S 5	100.112.176	42
	120	60	gravity	standard	HJ 30 G 6	100.112.054	46
	182	50	spring	aluminium	HAC 30 S 5	100.112.156	32
	232	100	spring	aluminium	HAC 30 S 10	100.112.155	32
	282	150	spring	aluminium	HAC 30 S 15	100.112.143	32
50	71	15	gravity	flat	HFC 50 S 1.5	100.112.194	40
	117	50	spring	standard	HSC 50 S 5	100.112.178	42
	142	60	gravity	standard	HJ 50 G 6	100.112.073	46
	150	61	air	aluminium	HLJ 50 A 6	100.112.060	36
	152	50	spring	standard	HJ 50 S 5	100.112.072	54
	183	50	spring	aluminium	HAC 50 S 5	100.112.154	34
	196	104	air	aluminium	HLJ 50 A 10	100.112.059	36
	206	100	spring	standard	HJ 50 S 10	100.112.077	54
	233	100	spring	aluminium	HAC 50 S 10	100.112.153	34
	257	150	spring	standard	HJ 50 S 15	100.112.074	54



tonnage	closed height	stroke length	return	type	model	art no	page
t	mm	mm					
	282	150	gravity	standard	HJ 50 G 15	100.112.035	46
	282	150	hydraulic	standard	HJ 50 H 15	100.122.002	56
	283	150	spring	aluminium	HAC 50 S 15	100.112.144	34
	307	150	gravity	lock nut	HJ 50 G 15 SN	100.082.001	52
	363	250	spring	standard	HJ 50 S 25	100.112.076	54
	463	300	gravity	standard	HJ 50 G 30	100.112.036	46
	463	300	hydraulic	standard	HJ 50 H 30	100.122.022	56
75	80	15	gravity	flat	HFC 75 S 1.5	100.112.193	40
	347	150	gravity	standard	HJ 75 G 15	100.112.037	48
	347	150	hydraulic	standard	HJ 75 H 15	100.122.003	56
	497	300	gravity	standard	HJ 75 G 30	100.112.038	48
	497	300	hydraulic	standard	HJ 75 H 30	100.122.004	56
100	90	15	gravity	flat	HFC 100 S 1.5	100.112.191	40
	141	50	spring	standard	HSC 100 S 5	100.112.172	42
	158	60	gravity	standard	HJ 100 G 6	100.112.093	48
	162	50	spring	standard	HJ 100 S 5	100.112.094	54
	170	50	hydraulic	standard	HJ 100 H 5	100.122.009	56
	226	100	spring	standard	HJ 100 S 10	100.112.096	54
	228	50	spring	aluminium	HAC 100 S 5	100.112.152	34
	278	100	spring	aluminium	HAC 100 S 10	100.112.151	34
	309	150	gravity	standard	HJ 100 G 15	100.112.039	48
	309	150	hydraulic	standard	HJ 100 H 15	100.122.052	56
	312	150	spring	standard	HJ 100 S 15	100.112.095	54
	323	150	gravity	lock nut	HJ 100 G 15 SN	100.082.000	52
	328	150	spring	aluminium	HAC 100 S 15	100.112.142	34
	497	300	gravity	standard	HJ 100 G 30	100.112.040	48
	497	300	hydraulic	standard	HJ 100 H 30	100.122.054	56
150	100	15	gravity	flat	HFC 150 S 1.5	100.112.175	40
	317	150	gravity	standard	HJ 150 G 15	100.112.046	48
	317	150	hydraulic	standard	HJ 150 H 15	100.122.061	58
	363	150	gravity	lock nut	HJ 150 G 15 SN	100.112.136	52
	502	300	gravity	standard	HJ 150 G 30	100.112.047	48
	502	300	hydraulic	standard	HJ 150 H 30	100.122.062	58
200	327	150	gravity	standard	HJ 200 G 15	100.112.048	50
	327	150	hydraulic	standard	HJ 200 H 15	100.122.071	58
	507	300	gravity	standard	HJ 200 G 30	100.112.049	50
	507	300	hydraulic	standard	HJ 200 H 30	100.122.072	58
250	385	150	gravity	lock nut	HJ 250 G 15 SN	100.112.083	52
300	382	150	gravity	standard	HJ 300 G 15	100.112.050	50
	382	150	hydraulic	standard	HJ 300 H 15	100.122.084	58
	547	300	gravity	standard	HJ 300 G 30	100.112.099	50
	547	300	hydraulic	standard	HJ 300 H 30	100.122.083	58
400	402	150	gravity	standard	HJ 400 G 15	100.112.100	50
	402	150	hydraulic	standard	HJ 400 H 15	100.122.091	60
	572	300	gravity	standard	HJ 400 G 30	100.112.056	50
	572	300	hydraulic	standard	HJ 400 H 30	100.122.092	60
500	442	150	gravity	standard	HJ 500 G 15	100.112.139	50
	442	150	hydraulic	standard	HJ 500 H 15	100.122.043	60
	587	300	gravity	standard	HJ 500 G 30	100.112.138	50
	587	300	hydraulic	standard	HJ 500 H 30	100.122.038	60



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Selection list hollow plunger cylinders

tonnage t	Ø hole in plunger mm	closed height mm	stroke length mm	return	type	model	art no	page
5	17	87	25	spring	hollow plunger	HHJ 5 S 2.5	100.111.002	72
12	21	156	50	spring	hollow plunger	HHJ 12 S 5	100.111.021	72
	21	298	150	spring	hollow plunger	HHJ 12 S 15	100.111.029	72
17	27	195	50	spring	hollow plunger	HHJ 17 S 5	100.112.023	72
20	27	182	50	spring	hollow plunger	HHJ 20 S 5	100.112.033	72
	27	389	150	spring	hollow plunger	HHJ 20 S 15	100.112.030	72
30	33	120	50	gravity	hollow plunger	HHJ 30 G 5	100.111.053	74
	33	226	75	spring	hollow plunger	HHJ 30 S 7.5	100.112.055	74
	33	362	150	spring	hollow plunger	HHJ 30 S 15	100.112.034	74
	33	285	150	hydraulic	hollow plunger	HHJ 30 H 15	100.122.045	76
45	39	388	150	spring	hollow plunger	HHJ 45 S 15	100.112.061	74
60	45	272	75	spring	hollow plunger	HHJ 60 S 7.5	100.112.081	74
	45	334	200	hydraulic	hollow plunger	HHJ 60 H 20	100.122.031	76
100	54	265	100	hydraulic	hollow plunger	HHJ 100 H 10	100.122.051	76
	54	395	200	hydraulic	hollow plunger	HHJ 100 H 20	100.122.053	76
110	80	315	75	spring	hollow plunger	HHJ 110 S 7.5	100.112.101	74

Cylinder **Finder**



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**Aluminium cylinders** - spring return - ≥ 20 ton

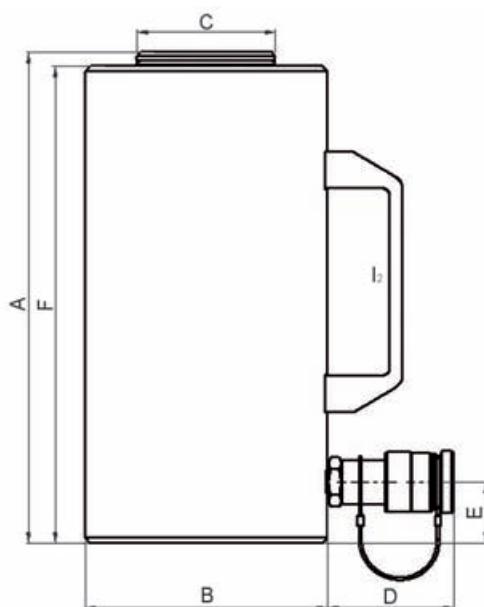
model	HAC 20 S 5	HAC 20 S 10	HAC 20 S 15	HAC 30 S 5	HAC 30 S 10	HAC 30 S 15
art no	100.112.150	100.112.149	100.112.137	100.112.156	100.112.155	100.112.143
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	20	20	20	30	30	30
stroke length mm	50	100	150	50	100	150
closed height mm	164	214	264	182	232	282
capacity kN/t	204 / 20.8	204 / 20.8	204 / 20.8	301 / 30.7	301 / 30.7	301 / 30.7
oil content cm ³	142	283	424	209	418	629
effective pressure area cm ²	28.3	28.3	28.3	41.9	41.9	41.9
weight kg	3.1	3.9	4.6	4.8	6.0	7.0
maintenance set art no	100.013.099	100.013.099	100.013.099	100.013.106	100.013.106	100.013.106
recommended pump model	HTS 550 A	HTW 1800 B				
pressure gauge model	A 501	A 501	A 501	A 510	A 510	A 510

**Aluminium cylinders** - spring return - ≥ 20 ton (dimensions)

model	HAC 20 S 5	HAC 20 S 10	HAC 20 S 15	HAC 30 S 5	HAC 30 S 10	HAC 30 S 15
A mm	164	214	264	182	232	282
B mm	90	90	90	108	108	108
C mm	50	50	50	60	60	60
D mm	75	75	75	73	73	73
E mm	26	26	26	35	35	35
F mm	157	207	257	177	227	277
I ₂	-	I ₂	I ₂	-	I ₂	I ₂



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Specifications / important properties

- up to 50% less weight than steel models
 - easy to move and to position
- carrying handles on almost all models
- corrosion-resistant
- composite bearings
 - prevent metal-to-metal contact
 - extend the life time
 - resistant to side-loads of up to 10%
- usable in all positions
- protected against ejection of the plunger
- dirt scraper ring
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- steel plate for protection of the cylinder bottom: 20 ton (art no 100.001.068), 30 ton (art no 100.001.069), 50 ton (art no 100.001.014), 100 ton (art no 100.001.013) and 150 ton (art no 100.001.067)
- cylinders manufactured in conformity with customer specifications

Aluminium versus steel

Aluminium cylinders offer an easy to handle alternative to steel. They should last a lifetime of use in average heavy duty lifting applications. However, contrary to steel, specific limitations should be taken into account due to aluminium's lower finite fatigue life. Aluminium cylinders should NOT be used in high cycle applications. Aluminium cylinders obtained from Holmatro are designed to safely withstand up to 5,000 cycles at their maximum working pressure.

Tilting saddles for off-center loading	pag. 82
Hydraulic pumps	pag. 110
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HAC 20 S 5



HAC 30 S 10



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**Aluminium cylinders** - spring return - ≥ 50 ton

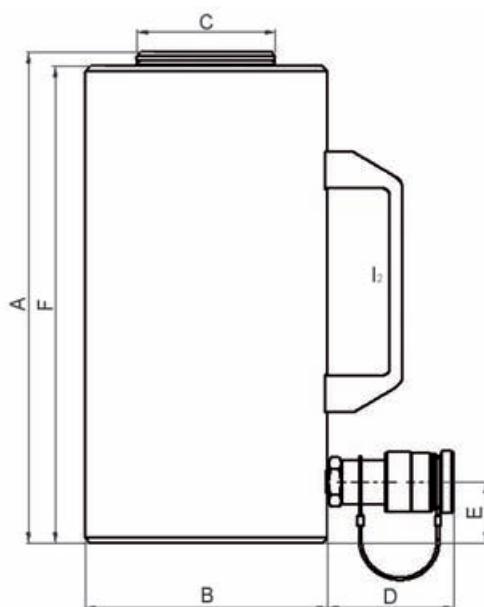
model	HAC 50 S 5	HAC 50 S 10	HAC 50 S 15	HAC 100 S 5	HAC 100 S 10	HAC 100 S 15
art no	100.112.154	100.112.153	100.112.144	100.112.152	100.112.151	100.112.142
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	50	50	50	100	100	100
stroke length mm	50	100	150	50	100	150
closed height mm	183	233	283	228	278	328
capacity kN/t	510 / 52	510 / 52	510 / 52	1031 / 105.2	1031 / 105.2	1031 / 105.2
oil content cm ³	355	709	1063	716	1432	2147
effective pressure area cm ²	70.9	70.9	70.9	143.1	143.1	143.1
weight kg	8.1	9.9	11.6	19.7	23.3	26.9
maintenance set art no	100.013.108	100.013.108	100.013.108	100.013.116	100.013.116	100.013.116
recommended pump model	HTS 550 A	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B
pressure gauge model	A 503	A 503	A 503	A 504	A 504	A 504

**Aluminium cylinders** - spring return - ≥ 50 ton (dimensions)

model	HAC 50 S 5	HAC 50 S 10	HAC 50 S 15	HAC 100 S 5	HAC 100 S 10	HAC 100 S 15
A mm	183	233	283	228	278	328
B mm	140	140	140	200	200	200
C mm	80	80	80	105	105	105
D mm	73	73	73	73	73	73
E mm	35	35	35	45	45	45
F mm	175	225	275	217	267	317
I ₂	-	I ₂ (2x)				



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Specifications / important properties

- up to 50% less weight than steel models
 - easy to move and to position
- carrying handles on almost all models
- corrosion-resistant
- composite bearings
 - prevent metal-to-metal contact
 - extend the life time
 - resistant to side-loads of up to 10%
- usable in all positions
- protected against ejection of the plunger
- dirt scraper ring
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- steel plate for protection of the cylinder bottom: 20 ton (art no 100.001.068), 30 ton (art no 100.001.069), 50 ton (art no 100.001.014), 100 ton (art no 100.001.013) and 150 ton (art no 100.001.067)
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Aluminium versus steel

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HAC 50 S 5



HAC 100 S 15



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Aluminium cylinders - air return

model	HLJ 50 A 6	HLJ 50 A 10
art no	100.112.060	100.112.059
working pressure bars/Mpa	720 / 72	720 / 72
tonnage t	50	50
stroke length mm	61	104
closed height mm	150	196
capacity kN/t	510.3 / 52	510.3 / 52
oil content cm ³	432	737
effective pressure area cm ²	70.9	70.9
weight kg	7	9
maintenance set art no	100.123.012	100.123.012
recommended pump model	HTS 550 A	HTW 1800 B
pressure gauge model	A 503	A 503

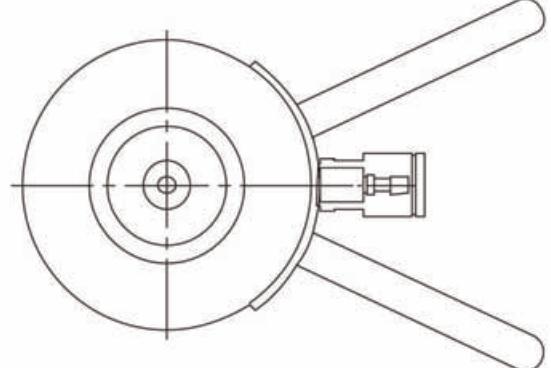
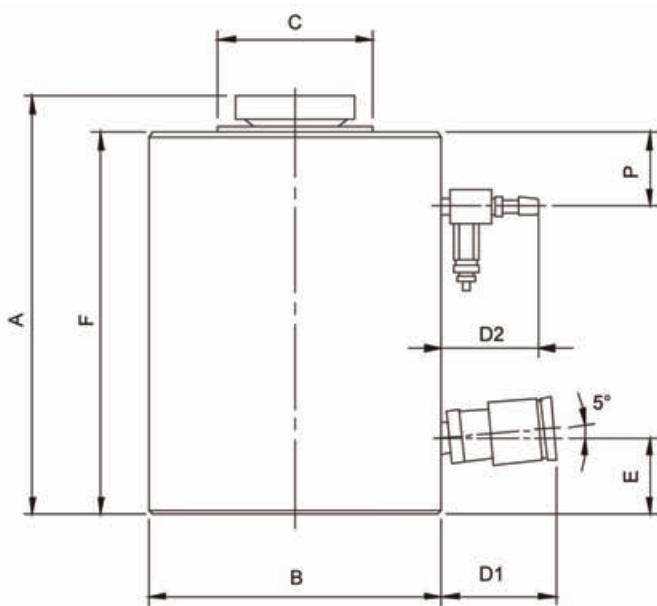
Aluminium cylinders - air return (dimensions)

model	HLJ 50 A 6	HLJ 50 A 10
A mm	150	196
B mm	145	145
C mm	80	80
D ₁ /D ₂ mm	70 / 60	70 / 60
E mm	28	28
F mm	132	178
P mm	30	30



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Specifications / important properties

- air return
 - by means of compressed air (6 bars)
 - overpressure protection
- 50% less weight than steel cylinders
- easy to move with two standard carrying handles
- corrosion-resistant
- usable in all positions
- standard with tilting saddle for oblique load
- protected against ejection of the plunger

Available on request

- cylinders manufactured in conformity with customer specifications

Aluminium versus steel

Aluminium cylinders offer an easy to handle alternative to steel. They should last a lifetime of use in average heavy duty lifting applications. However, contrary to steel, specific limitations should be taken into account due to aluminium's lower finite fatigue life. Aluminium cylinders should NOT be used in high cycle applications. Aluminium cylinders obtained from Holmatro are designed to safely withstand up to 5,000 cycles at their maximum working pressure.

Hydraulic pumps
 Hydraulic hoses
 Pressure gauges

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HLJ 50 A 6



HLJ 50 A 10



Detail air-filling valve with pressure relief valve



Detail standard tilting saddle



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Flat cylinders - spring return - ≥ 5 ton

model	HFC 5 S 0.5	HFC 5 S 1.5	HFC 10 S 1.5	HFC 20 S 1.5	HFC 30 S 0.5	HFJ 50 G 0.5
art no	100.112.168	100.112.181	100.112.184	100.112.185	100.112.187	100.112.186
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	5	5	10	20	30	30
stroke length mm	5	15	15	15	5	15
closed height mm	31	44	46	55	50	60
capacity kN/t	50.9 / 5.2	50.9 / 5.2	99.8 / 10.2	203.6 / 20.8	318.2 / 32.4	318.1 / 32.4
oil content cm ³	4	11	21	42	22	66
effective pressure area cm ²	7.1	7.1	13.9	28.3	44.2	44.2
weight kg	1.2	1	1.6	2.9	3.6	4.2
maintenance set art no	100.013.128	100.013.128	100.013.132	100.013.134	100.013.150	100.013.150
recommended pump model	HTW 300 B	HTW 300 B	HTW 300 B	HTW 300 B	HTW 300 B	HTW 300 B
pressure gauge model	A 501	A 501	A 501	A 501	A 502	A 502

Flat cylinders - spring return - ≥ 5 ton (dimensions)

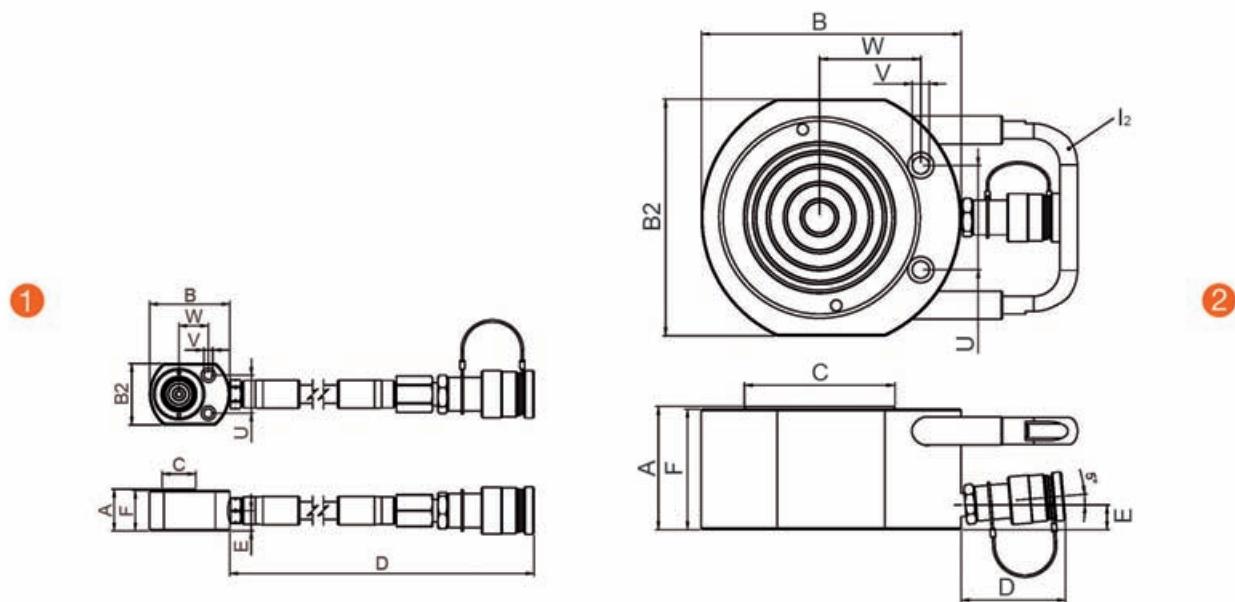
model	HFC 5 S 0.5	HFC 5 S 1.5	HFC 10 S 1.5	HFC 20 S 1.5	HFC 30 S 0.5	HFC 30 S 1.5
A mm	31	44	46	55	50	60
B/B ₂ mm	Ø60 / 46	Ø60 / 46	Ø82 / 55	Ø100 / 80	Ø116 / 95	Ø116 / 95
C mm	25	25	36	50	62	62
D mm	385 (hose)	76	76	76	76	76
E mm	15	15 (5°)	19	19 (5°)	19 (5°)	19 (5°)
F mm	30	43	46	54	49	59
J mm	29	29	37	49	52	52
K mm	7	7	7	9	11	11
L mm	22	22	34	39	44	44

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(1) HFC 5 S 0.5 (2) HFC 10 S 1.5, HFC 5 S 1.5, HFC 20 S 1.5, HFC 30 S 0.5 and HFC 30 S 1.5



Specifications / important properties

- superior seal - **Duo Power Ring concept**
 - excellent static and dynamic sealing
- very strong composite bearing - **Duo Power Ring concept** (from 50 ton)
 - prevents metal-to-metal contact
 - resistant to side-loads of up to max. 10%
- compact, flat version, efficient in case of limited insertion space
- usable in all positions
- standard provided with fixing holes for easy assembly
- protected against ejection of the plunger
- dirt scraper ring
 - protects against pollution
 - increases the life span
- splined plunger, no saddle needed
- long life span
- long service period

Available on request

- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
Hydraulic hoses
Pressure gauges

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HFC 5 S 0.5



HFC 10 S 1.5



HFC 30 S 1.5

Flat cylinders - spring return - ≥ 50 ton

model	HFC 50 S 1.5	HFC 75 S 1.5	HFC 100 S 1.5	HFC 150 S 1.5
art no	100.112.194	100.112.193	100.112.191	100.112.175
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	50	75	100	150
stroke length mm	15	15	15	15
closed height mm	71	80	90	100
capacity kN/t	510.4 / 52	747.9 / 76.2	1030.5 / 105.1	1447.6 / 147.6
oil content cm ³	106	156	215	302
effective pressure area cm ²	70.9	103.9	143.1	201.1
weight kg	7	11	18.1	25.7
maintenance set art no	100.013.155	100.013.156	100.013.157	100.013.158
recommended pump model	HTW 300 B	HTW 300 B	HTW 300 B	HTS 550 A
pressure gauge model	A 503	A 503	A 504	A 504

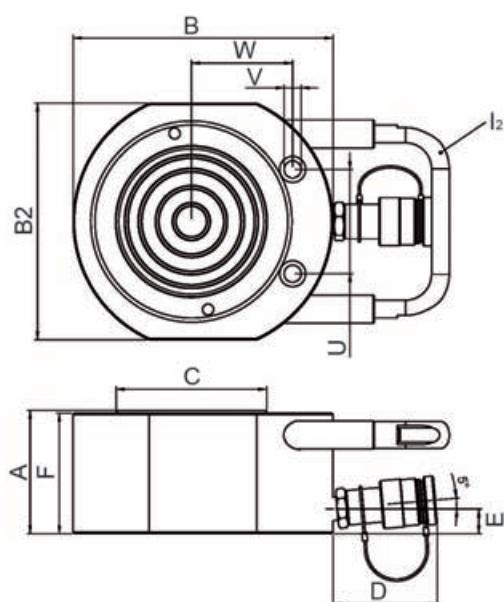
Flat cylinders - spring return - ≥ 50 ton (dimensions)

model	HFC 50 S 1.5	HFC 75 S 1.5	HFC 100 S 1.5	HFC 150 S 1.5
A mm	71	80	90	100
B mm	Ø140 / 119	Ø165 / 144	Ø190 / 173	Ø215 / 200
C mm	75	80	110	125
D mm	76	76	76 / 85	76 / 75
E mm	19 (5°)	19	19	24
F mm	70	79	88	99
I ₁ /I ₂	-	-	I ₂	I ₂



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Specifications / important properties
 

- superior seal - **Duo Power Ring concept**
 - excellent static and dynamic sealing
- very strong composite bearing - **Duo Power Ring concept**
 - prevents metal-to-metal contact
 - resistant to side-loads of up to max. 10%
- compact, flat version, efficient in case of limited insertion space
- usable in all positions
- standard provided with fixing holes for easy assembly
- protected against ejection of the plunger
- dirt scraper ring
 - protects against pollution
 - increases the life span
- splined plunger, no saddle needed
- carrying handles on HFC 100 S 1.5 and HFC 150 S 1.5
- long life span
- long service period

Available on request
 

- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
Hydraulic hoses
Pressure gauges

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HFC 50 S 1.5



HFC 75 S 1.5



HFC 150 S 1.5



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Short stroke cylinders - spring return

model	HSC 10 S 5	HSC 20 S 5	HSC 30 S 5	HSC 50 S 5	HSC 100 S 5
art no	100.112.0164	100.112.171	100.112.176	100.112.178	100.112.172
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	10	20	30	50	100
stroke length mm	50	50	50	50	50
closed height mm	100	103	106	117	141
capacity kN/t	99.8 / 10.2	203.6 / 20.8	318.1 / 32.4	510.4 / 52	1030.6 / 105.1
oil content cm ³	69	141	221	354	141
effective pressure area cm ²	13.9	28.3	44.2	70.9	143.1
weight kg	2.9	5.5	6.1	9.7	22.2
maintenance set art no	100.013.160	100.013.161	100.013.164	100.013.165	100.013.166
recommended pump model	HTW 300 B	HTW 300 B	HTW 300 B	HTS 550 A	HTW 1800 B
pressure gauge model	A 501	A 501	A 501	A 503	A 504

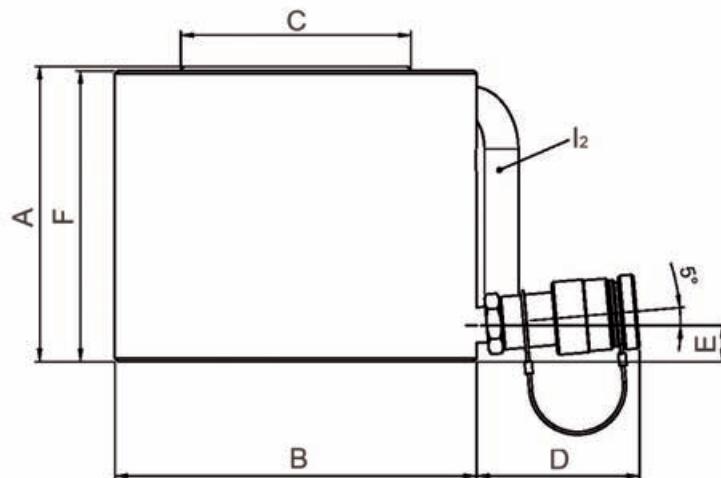
Short stroke cylinders - spring return (dimensions)

model	HSC 10 S 5	HSC 20 S 5	HSC 30 S 5	HSC 50 S 5	HSC 100 S 5
A mm	100	103	106	117	141
B mm	70	98	104	128	173
C mm	36	60	62	75	110
D mm	77	77	76	76	76
E mm	15 (5°)	15 (5°)	19	19	24
F mm	99	102	105	116	139
I ₁ /I ₂	-	-	-	-	I ₂



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Specifications / important properties

- superior seal - **Duo Power Ring concept**
 - excellent static and dynamic sealing
- very strong composite bearing - **Duo Power Ring concept**
 - prevents metal-to-metal contact
 - resistant to side-loads of up to max. 10%
- compact, flat version, efficient in case of limited insertion space
- usable in all positions
- protected against ejection of the plunger
- dirt scraper ring
 - protects against pollution
 - increases the life span
- splined plunger, no saddle needed
- long life span
- long service period

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
Hydraulic hoses
Pressure gauges

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HSC 10 S 5



HSC 30 S 5



HSC 100 S 5

Telescopic cylinders - gravity return

model	HFJ 10/30 G 4	HJ 20/50 G 11
art no	100.111.005	100.112.103
working pressure bars/Mpa	720 / 72	720 / 72
tonnage t	10	20
stroke length mm	41 / 20	111 / 55
closed height mm	49	140
capacity kN	99.7 / 318.0	203.5 / 510.0
capacity t	10.1 / 32.4	20.7 / 52.0
oil content cm ³	118	554
effective pressure area cm ²	13.9 / 44.2	28.3 / 70.8
weight kg	4.5	12.5
maintenance set art no	100.113.010	100.119.225
recommended pump model	HTS 550 A	HTW 1800 B
pressure gauge model	A 500	A 500

Telescopic cylinders - gravity return (dimensions)

model	HFJ 10/30 G 4	HJ 20/50 G 11
A mm	49	140
B mm	120	125
D mm	385 (hose)	70
E mm	-	-
F mm	-	131

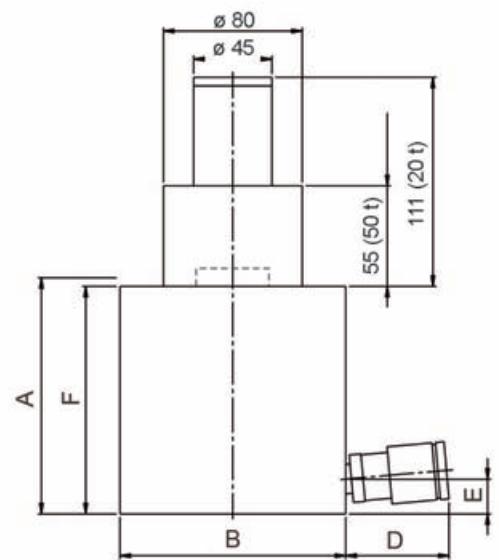
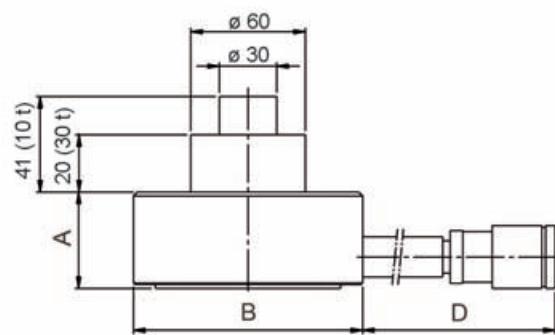


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(1) HFJ 10/30 G 4 (2) HJ 20/50 G 11



Specifications / important properties 

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger

Available on request 

- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
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HFJ 10/30 G 4



HJ 20/50 G 11



Detail HFJ 10/30 G 4



Detail HJ 20 / 50 G 11

**Cylinders** - gravity return - ≥ 10 ton

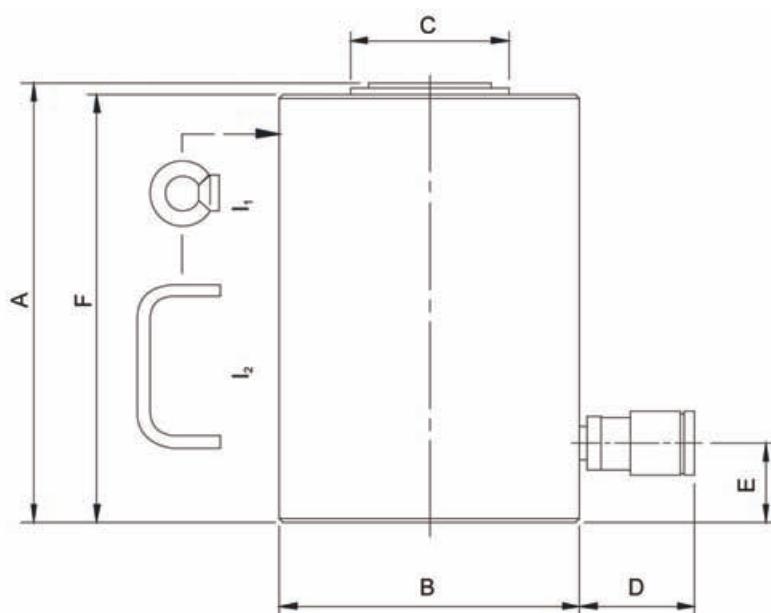
model	HJ 10 G 5	HJ 20 G 5	HJ 30 G 6	HJ 50 G 6	HJ 50 G 15	HJ 50 G 30
art no	100.112.012	100.112.032	100.112.054	100.112.073	100.112.035	100.112.036
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	10	20	30	50	50	50
stroke length mm	50	50	60	60	150	300
closed height mm	110	102	120	142	282	463
capacity kN/t	99.3 / 10.1	203.7 / 20.8	318.2 / 32.4	510.3 / 52	510.3 / 52	510.3 / 52
oil content cm ³	69	141	265	425	1064	2127
effective pressure area cm ²	13.8	28.3	44.2	70.9	70.9	70.9
weight kg	2.4	3.8	6	12.5	27	39.5
maintenance set art no	100.113.121	100.113.241	100.113.461	100.113.561	100.123.061	100.123.061
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A	HTW 1800 B	HTW 2800 B
pressure gauge model	A 501	A 501	A 502	A 503	A 503	A 503

**Cylinders** - gravity return - ≥ 10 ton (dimensions)

model	HJ 10 G 5	HJ 20 G 5	HJ 30 G 6	HJ 50 G 6	HJ 50 G 15	HJ 50 G 30
A mm	110	102	120	142	282	463
B mm	60	86	102	130	130	130
C mm	38	45	55	80	80	80
D mm	90	70	70	70	70	70
E mm	20	15	15	20	25	38
F mm	100	95	113	135	275	456
I ₁ /I ₂	-	-	-	I ₂	-	I ₂



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Specifications / important properties

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

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HJ 10 G 5



HJ 50 G 15



Detail saddle seating in plunger head

Cylinders - gravity return - ≥ 75 ton

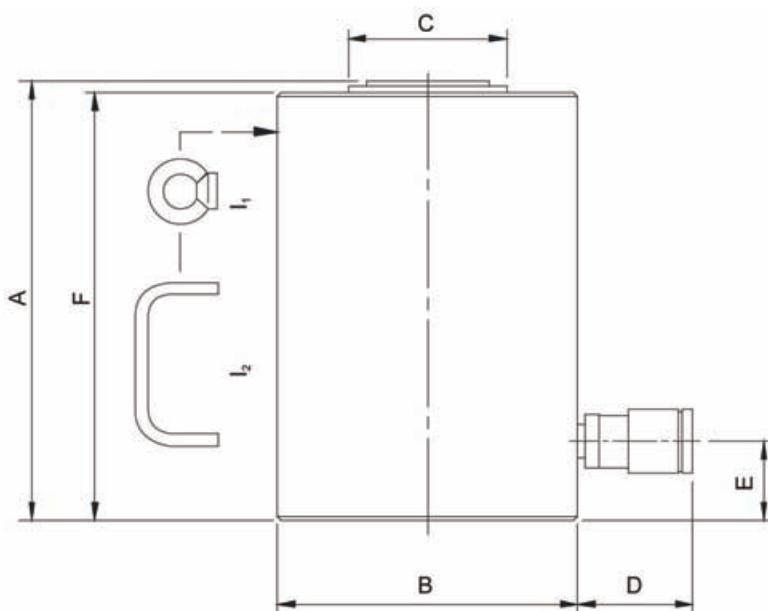
model	HJ 75 G 15	HJ 75 G 30	HJ 100 G 6	HJ 100 G 15	HJ 100 G 30	HJ 150 G 15	HJ 150 G 30
art no	100.112.037	100.112.038	100.112.093	100.112.039	100.112.040	100.112.046	100.112.047
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	75	75	100	100	100	150	150
stroke length mm	150	300	60	150	300	150	300
closed height mm	347	497	158	309	497	317	502
capacity kN/t	747.9 / 76.3	747.9 / 76.3	1029.3 / 105	1029.3 / 105	1029.3 / 105	1538.9 / 157	1538.9 / 157
oil content cm ³	1559	3117	860	2145	4290	3207	6414
effective pressure area cm ²	103.9	103.9	143	143	143	213.8	213.8
weight kg	46	63	29	51	82	74.6	125.3
maintenance set art no	100.123.101	100.123.101	100.113.701	100.123.141	100.123.141	100.123.201	100.123.201
recommended pump model	HTW 1800 B	HTW 5800 B	HTW 1800 B	HTW 2800 B	HTW 5800 B	HTW 5800 B	HTW 8800 B
pressure gauge model	A 503	A 503	A 504				

Cylinders - gravity return - ≥ 75 ton (dimensions)

model	HJ 75 G 15	HJ 75 G 30	HJ 100 G 6	HJ 100 G 15	HJ 100 G 30	HJ 150 G 15	HJ 150 G 30
A mm	347	497	158	309	497	317	502
B mm	156	156	185	178	178	227	227
C mm	80	80	105	105	105	115	115
D mm	70	70	70	70	70	70	70
E mm	47	47	27	52	52	57	57
F mm	340	490	151	302	490	310	495
I ₁ /I ₂	I ₁	I ₁	I ₂	I ₁	I ₁	I ₁	I ₁

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Specifications / important properties 

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request 

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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HJ 100 G 6



HJ 100 G 6



Cylinders - gravity return - ≥ 200 ton

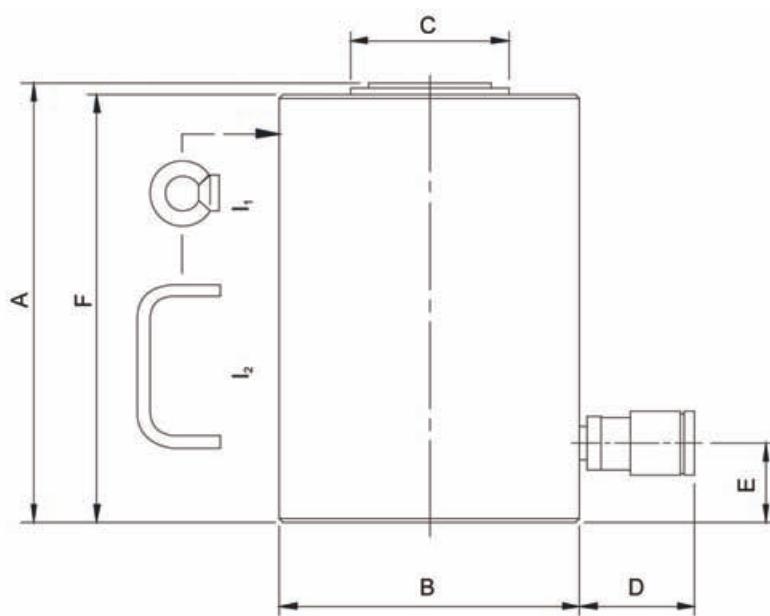
model	HJ 200 G 15	HJ 200 G 30	HJ 300 G 15	HJ 300 G 30	HJ 400 G 15	HJ 400 G 30	HJ 500 G 15	HJ 500 G 30
art no	100.112.048	100.112.049	100.112.050	100.112.099	100.112.100	100.112.056	100.112.139	100.112.138
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	200	200	300	300	400	400	500	500
stroke length mm	150	300	150	300	150	300	150	300
closed height mm	327	507	382	547	402	572	442	587
capacity kN/t	2040.6 / 208	2040.6 / 208	2933 / 299	2933 / 299	3750 / 382	3750 / 382	4994 / 509	4994 / 509
oil content cm ³	4253	8505	6225	12450	7950	15900	10605	21210
effective pressure area cm ²	283.5	283.5	415	415	530	530	707	707
weight kg	120	184	238	257	322	408	386	511
maintenance set art no	100.123.241	100.123.241	100.123.006	100.123.006	100.123.007	100.123.007	100.123.008	100.123.008
recommended pump model	HTW 5800 B	vari pump	vari pump	vari pump	vari pump	vari pump	vari pump	vari pump
pressure gauge model	A 505	A 505	A 505	A 505	A 506	A 506	A 506	A 506

Cylinders - gravity return - ≥ 200 ton (dimensions)

model	HJ 200 G 15	HJ 200 G 30	HJ 300 G 15	HJ 300 G 30	HJ 400 G 15	HJ 400 G 30	HJ 500 G 15	HJ 500 G 30
A mm	327	507	382	547	402	572	442	587
B mm	261	261	316	316	358	358	412	412
C mm	160	160	190	190	200	200	210	210
D mm	70	70	70	70	70	70	70	70
E mm	60	60	70	70	76	76	85	85
F mm	320	500	370	540	395	565	435	580
I ₁ /I ₂	I ₁							

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Specifications / important properties

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

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HJ 300 G 15



Detail saddle seating in plunger head

Locknut cylinders - gravity return

model	HJ 10 G 15 SN	HJ 25 G 15 SN	HJ 50 G 15 SN	HJ 100 G 15 SN	HJ 150 G 15 SN	HJ 250 G 15 SN
art no	100.082.003	100.082.002	100.082.001	100.082.000	100.112.136	100.112.083
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	10	25	50	100	150	250
stroke length mm	150	150	150	150	150	150
closed height mm	270	283	307	323	363	385
capacity kN/t	99.3 / 10.1	238.9 / 24.4	510.3 / 52	1029.3 / 105	1538.9 / 157	2493.8 / 254
oil content cm ³	210	498	1065	2150	3207	5195
effective pressure area cm ²	13.8	33.2	70.9	143	213.8	340.6
weight kg	5.9	14	34	71	101	180
maintenance set art no	100.083.013	100.083.014	100.083.015	100.083.012	100.013.084	100.013.138
recommended pump model	HTS 550 A	HTS 550 A	HTW 1800 B	HTW 2800 B	vari pump	vari pump
pressure gauge model	A 501	A 502	A 503	A 504	A 504	A 500

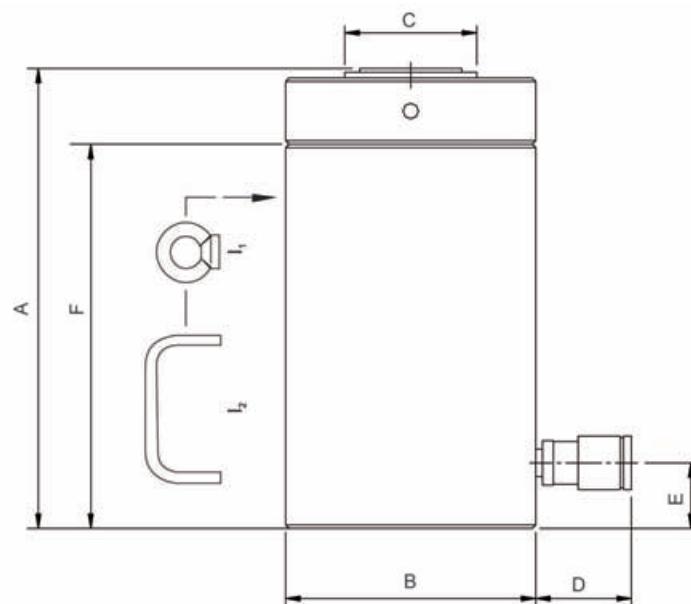
Locknut cylinders - gravity return (dimensions)

model	HJ 10 G 15 SN	HJ 25 G 15 SN	HJ 50 G 15 SN	HJ 100 G 15 SN	HJ 150 G 15 SN	HJ 250 G 15 SN
A mm	270	283	307	323	363	385
B mm	60	90	135	190	212	300
C mm	42	65	95	135	165	210
D mm	70	70	70	70	70	70
E mm	25	25	25	25	35	40
F mm	242	257	272	287	305	330
I ₁ /I ₂	-	I ₂	I ₂	I ₁	I ₁	I ₁



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Specifications / important properties

- usable in all positions
- safe because of mechanical load locking
- suitable for sustained load
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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HJ 10 G 15 SN



HJ 50 G 15 SN



Locknut on plunger for mechanical load locking

Cylinders - spring return

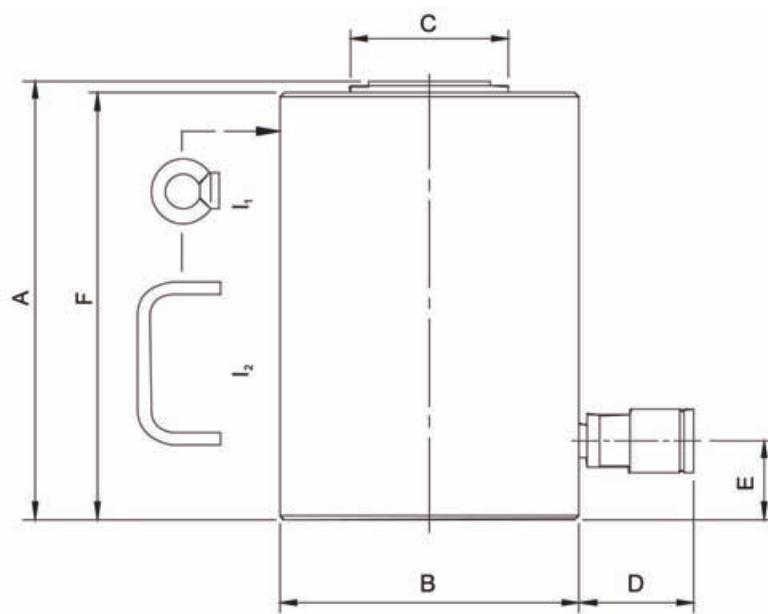
model	HJ 50 S 5	HJ 50 S 10	HJ 50 S 15	HJ 50 S 25	HJ 100 S 5	HJ 100 S 10	HJ 100 S 15
art no	100.112.072	100.112.077	100.112.074	100.112.076	100.112.094	100.112.096	100.112.095
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	50	50	50	50	100	100	100
stroke length mm	50	100	150	250	50	100	150
closed height mm	152	206	257	363	162	226	312
capacity kN/t	510.3 / 52	510.3 / 52	510.3 / 52	510.3 / 52	1029.30 / 105	1029.3 / 105	1029.3 / 105
oil content cm ³	354	709	1064	1773	715	1430	2145
effective pressure area cm ²	70.9	70.9	70.9	70.9	143	143	143
weight kg	14	17.4	22	30	29	40	55
maintenance set art no	100.113.561	100.113.561	100.113.561	100.113.561	100.113.721	100.113.721	100.113.721
recommended pump model	HTS 550 A	HTW 1800 B	HTW 1800 B	HTW 2800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B
pressure gauge model	A 503	A 503	A 503	A 503	A 504	A 504	A 504

Cylinders - spring return (dimensions)

model	HJ 50 S 5	HJ 50 S 10	HJ 50 S 15	HJ 50 S 25	HJ 100 S 5	HJ 100 S 10	HJ 100 S 15
A mm	152	206	257	363	162	226	312
B mm	130	130	130	130	185	185	185
C mm	80	80	80	80	105	105	105
D mm	70	70	70	70	70	70	70
E mm	35	35	35	38	27	27	55
F mm	145	200	250	356	155	220	305
I ₁ /I ₂	-	-	I ₂	I ₂	I ₂	I ₁	I ₁

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Specifications / important properties

- compact
- usable in all positions
- protected against ejection of the plunger
- dirt scraper ring
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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HJ 50 S 15



HJ 100 S 15



Cylinders - hydraulic return - ≥ 50 ton

model	HJ 50 H 15	HJ 50 H 30	HJ 75 H 15	HJ 75 H 30	HJ 100 H 5	HJ 100 H 15	HJ 100 H 30
art no	100.122.002	100.122.022	100.122.003	100.122.004	100.122.009	100.122.052	100.122.054
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	50	50	75	75	100	100	100
stroke length mm	150	300	150	300	50	150	300
closed height mm	282	463	347	497	170	309	497
capacity kN/t	510.3 / 52	510.3 / 52	747.9 / 76.3	747.9 / 76.3	1029.3 / 105	1029.3 / 105	1029.3 / 105
oil content* cm ³	1064 / 309	2127 / 620	1559 / 755	3117 / 1509	716 / 283	2145 / 848	4290 / 1695
effective pressure area* cm ²	70.9 / 20.6	70.9 / 20.6	103.9 / 53.6	103.9 / 53.6	143.0 / 56.6	143.0 / 56.6	143.0 / 56.6
weight kg	27	44	46	63	29	53	85
maintenance set art no	100.123.061	100.123.061	100.123.101	100.123.101	100.123.141	100.123.141	100.123.141
recommended pump model	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 2800 B	HTW 1800 B	HTW 1800 B	HTW 5800 B
pressure gauge model	A 503	A 503	A 503	A 503	A 504	A 504	A 504

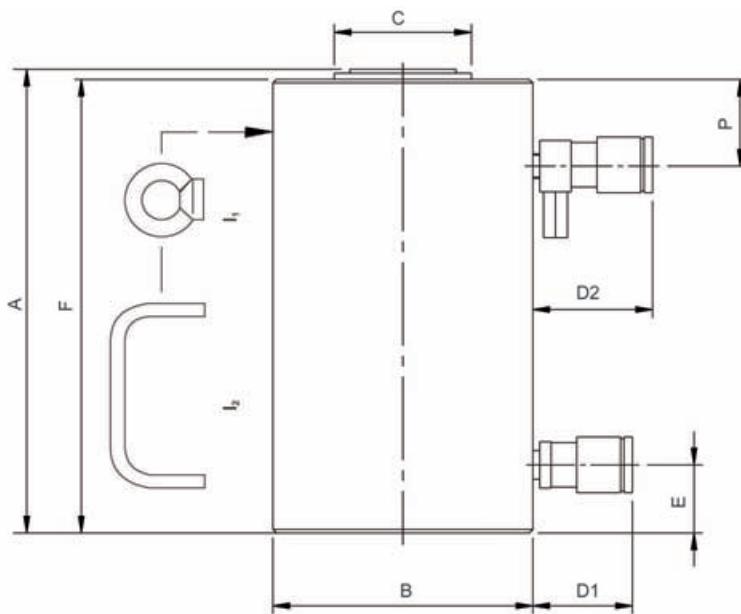
Cylinders - hydraulic return - ≥ 50 ton (dimensions)

model	HJ 50 H 15	HJ 50 H 30	HJ 75 H 15	HJ 75 H 30	HJ 100 H 5	HJ 100 H 15	HJ 100 H 30
A mm	282	463	347	497	163	309	497
B mm	130	130	156	156	178	178	178
C mm	80	80	80	80	105	105	105
D ₁ /D ₂ mm	70 / 85	70 / 85	70 / 85	70 / 85	70 / 85	70 / 85	70 / 85
E mm	25	38	47	47	27	52	52
F mm	275	456	340	490	163	302	490
I ₁ /I ₂	I ₂	I ₂	I ₂	I ₁	I ₁	I ₁	I ₁
P mm	70	70	83	83	52	52	70

* = press / retract


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Specifications / important properties

- usable in all positions
- protected against ejection of the plunger
- protected against overpressure on return side
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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HJ 50 H 30



HJ 100 H 15



Pressure relief valve prevents dangerous situations in case of incorrectly connected cylinders

**Cylinders** - hydraulic return - ≥ 150 ton

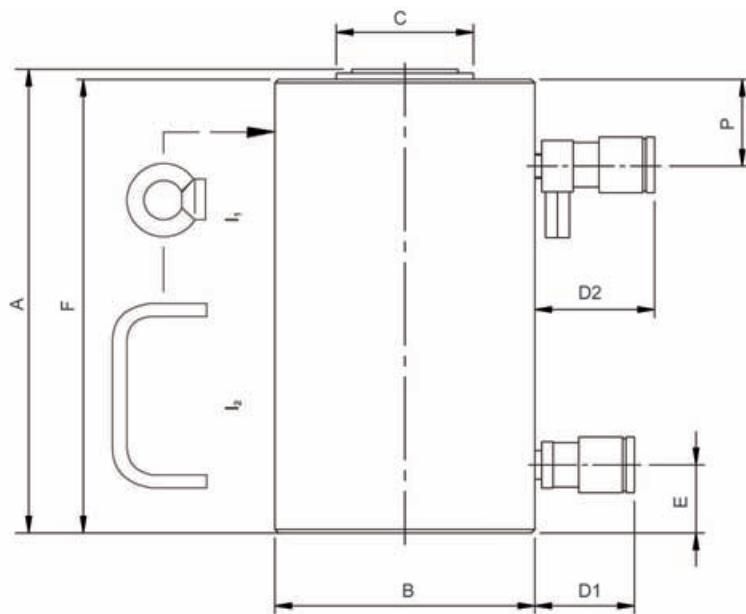
model	HJ 150 H 15	HJ 150 H 30	HJ 200 H 15	HJ 200 H 30	HJ 300 H 15	HJ 300 H 30
art no	100.122.061	100.122.062	100.122.071	100.122.072	100.122.084	100.122.083
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	150	150	200	200	300	300
stroke length mm	150	300	150	300	150	300
closed height mm	317	502	327	507	382	547
capacity kN/t	1538.9 / 157	1538.9 / 157	2040.6 / 208	2040.6 / 208	2933 / 299	2933 / 299
oil content* cm ³	3207 / 1650	6414 / 3300	4253 / 1238	8505 / 2475	6225 / 1965	12450 / 3930
effective pressure area* cm ²	213.8 / 110	213.8 / 110	283.5 / 82.5	283.5 / 82.5	415.5 / 131.9	415.5 / 131.9
weight kg	76	128	121	186	240	360
maintenance set art no	100.123.201	100.123.201	100.123.241	100.123.241	100.123.281	100.123.281
recommended pump model	HTW 2800 B	HTW 5800 B	HTW 5800 B	HTW 8800 B	vari pump	vari pump
pressure gauge model	A 504	A 504	A 505	A 505	A 505	A 505

**Cylinders** - hydraulic return - ≥ 150 ton (dimensions)

model	HJ 150 H 15	HJ 150 H 30	HJ 200 H 15	HJ 200 H 30	HJ 300 H 15	HJ 300 H 30
A mm	317	502	327	507	382	547
B mm	227	227	261	261	316	316
C mm	115	115	160	160	190	190
D ₁ /D ₂ mm	70 / 85	70 / 85	70 / 85	70 / 85	70 / 85	70 / 85
E mm	57	57	60	60	80	80
F mm	310	495	320	500	370	540
I ₁ /I ₂	I ₁					
P mm	55	70	60	70	75	75

* = press / retract


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Specifications / important properties

- usable in all positions
- protected against ejection of the plunger
- protected against overpressure on return side
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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Hydraulic pumps

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HJ 100 H 30



HJ 300 H 15



Pressure relief valve prevents dangerous situations in case of incorrectly connected cylinders

Cylinders - hydraulic return - ≥ 400 ton

model	HJ 400 H 15	HJ 400 H 30	HJ 500 H 15	HJ 500 H 30
art no	100.122.091	100.122.092	100.122.043	100.122.038
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	400	400	500	500
stroke length mm	150	300	150	300
closed height mm	402	572	442	587
capacity kN/t	3750 / 382	3750 / 382	4994 / 509	4994 / 509
oil content* cm ³	7950 / 3238	15900 / 6476	10605 / 5400	21210 / 10800
effective pressure area* cm ²	530.9 / 216.7	530.9 / 216.7	707 / 360.3	707 / 360.3
weight kg	325	413	390	520
maintenance set art no	100.123.007	100.123.007	100.123.008	100.123.008
recommended pump model	vari pump	vari pump	vari pump	Vari pump
pressure gauge model	A 506	A 506	A 506	A 506

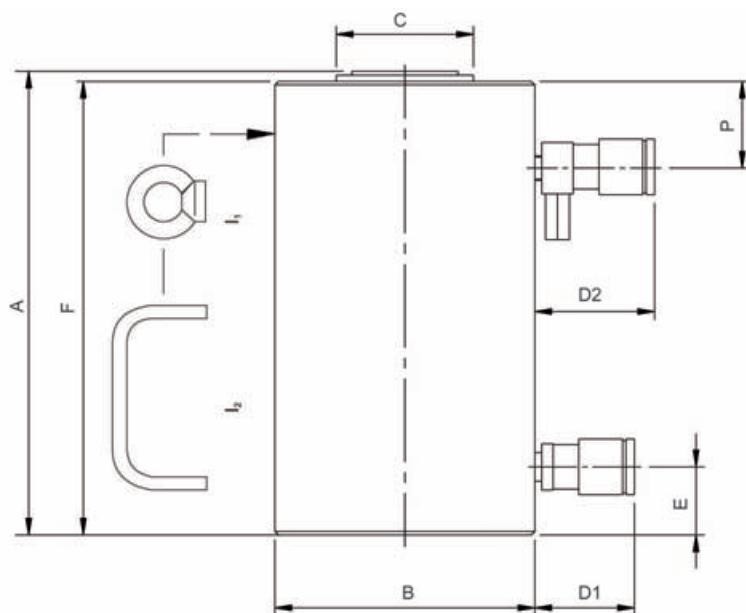
Cylinders - hydraulic return - ≥ 400 ton (dimensions)

model	HJ 400 H 15	HJ 400 H 30	HJ 500 H 15	HJ 500 H 30
A mm	402	572	442	587
B mm	358	358	412	412
C mm	200	200	210	210
D ₁ /D ₂ mm	70 / 85	70 / 85	70 / 85	70 / 85
E mm	76	76	85	85
F mm	395	565	435	580
I ₁ /I ₂	I ₁	I ₁	I ₁	I ₁
P mm	80	80	90	90

* = press / retract


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Specifications / important properties 

- usable in all positions
- protected against ejection of the plunger
- protected against overpressure on return side
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request 

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Tilting saddles for off-center loading

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Hydraulic pumps

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Hydraulic hoses

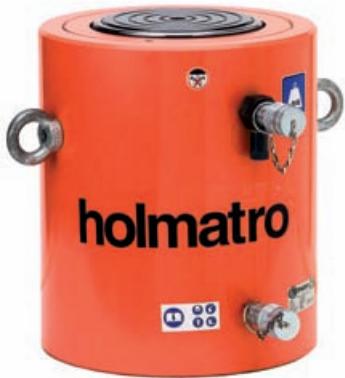
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Pressure gauges

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HJ 300 H 15



HJ 300 H 15



Pressure relief valve prevents dangerous situations in case of incorrectly connected cylinders

Assembly cylinders - spring return - ≥ 5 ton

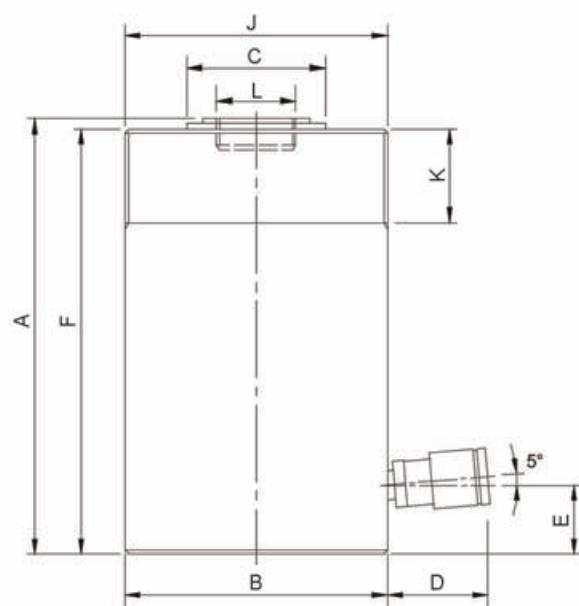
model	HTJ 5 S 7.5	HTJ 5 S 12	HTJ 10 S 5	HTJ 10 S 10	HTJ 10 S 15 C	HTJ 10 S 20
art no	100.112.003	100.112.004	100.112.020	100.112.015	100.112.022	100.112.097
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	5	5	10	10	10	10
stroke length mm	75	120	50	100	150	212
closed height mm	157	202	135	185	255	305
capacity kN/t	47.5 / 4.8	47.5 / 4.8	99.3 / 10.1	99.3 / 10.1	99.3 / 10.1	99.3 / 10.1
oil content cm ³	50	80	69	138	207	276
effective pressure area cm ²	6.6	6.6	13.8	13.8	13.8	13.8
weight kg	1.5	1.7	2.6	3.6	4.7	5.7
maintenance set art no	100.113.021	100.113.021	100.113.121	100.113.121	100.113.121	100.113.121
recommended pump model	HTS 550 A	HTS 550 A				
pressure gauge model	A 501	A 501				

Assembly cylinders - spring return - ≥ 5 ton (dimensions)

model	HTJ 5 S 7.5	HTJ 5 S 12	HTJ 10 S 5	HTJ 10 S 10	HTJ 10 S 15 C	HTJ 10 S 20
A mm	157	202	135	185	255	305
B mm	40	40	60	60	60	60
C mm	25	25	38	38	38	38
D mm	70	70	70	70	70	70
E mm	20	20	20	20	20	20
F mm	150	195	125	175	245	295
J mm	M40 x 1.5	M40 x 1.5	M60 x 2	M60 x 2	M60 x 2	M60 x 2
K mm	22	22	30	30	30	30
L mm	-	-	M25 x 1.5	M25 x 1.5	M25 x 1.5	M25 x 1.5

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Specifications / important properties

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- standard fixing thread
 - on cylinder housing
 - in plunger head (except HTJ 5 S 7.5 and HTJ 5 S 12)
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Assembly / welding rings
 Tilting saddles for off-center loading
 Hydraulic pumps
 Hydraulic hoses
 Pressure gauges

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HTJ 5 S 7.5



HTJ 10 S 10



HTJ model with threads on the cylinder housing and in the plunger head



Sleeve for screw thread protection

Assembly cylinders - spring return - 25 ton

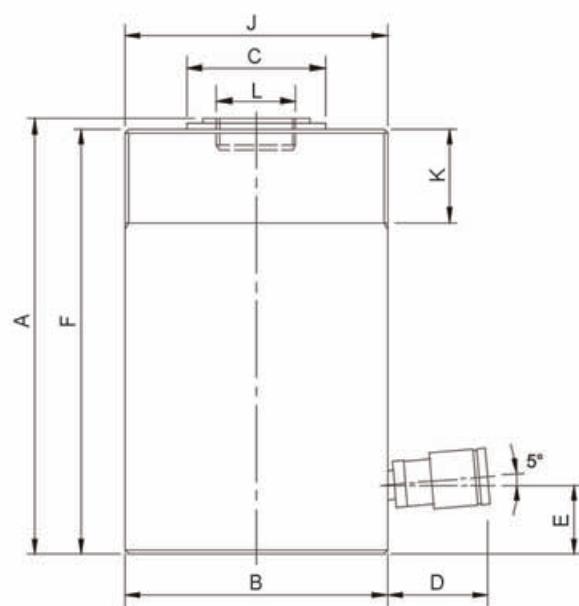
model	HTJ 25 S 5	HTJ 25 S 10	HTJ 25 S 15 C	HTJ 25 S 25	HTJ 25 S 35
art no	100.112.098	100.112.042	100.112.026	100.112.027	100.112.028
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	25	25	25	25	25
stroke length mm	50	100	150	250	350
closed height mm	137	187	237	360	460
capacity kN/t	238.9 / 24.4	238.9 / 24.4	238.9 / 24.4	238.9 / 24.4	238.9 / 24.4
oil content cm ³	166	332	498	830	1162
effective pressure area cm ²	33.2	33.2	33.2	33.2	33.2
weight kg	5.2	6.8	8.5	12.7	17.5
maintenance set art no	100.113.301	100.113.301	100.113.301	100.113.301	100.113.301
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A	HTW 1800 B	HTW 1800 B
pressure gauge model	A 502	A 502	A 502	A 502	A 502

Assembly cylinders - spring return - 25 ton (dimensions)

model	HTJ 25 S 5	HTJ 25 S 10	HTJ 25 S 15 C	HTJ 25 S 25	HTJ 25 S 35
A mm	137	187	237	360	460
B mm	85	85	85	85	85
C mm	55	55	55	55	55
D mm	70	70	70	70	70
E mm	20	20	20	20	20
F mm	130	180	230	353	453
J mm	M85 x 2	M85 x 2	M85 x 2	M85 x 2	M85 x 2
K mm	42	42	42	42	42
L mm	M36 x 1.5	M36 x 1.5	M36 x 1.5	M36 x 1.5	M36 x 1.5

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Specifications / important properties

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- standard fixing thread
 - on cylinder housing
 - in plunger head
- flat saddle
 - prevents damage to the plunger
 - easy to replace with tilting saddle

Available on request

- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Assembly / welding rings	pag. 80
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HTJ 25 S 10



HTJ model with threads on the cylinder housing and in the plunger head



Sleeve for screw thread protection

Construction cylinders - spring return

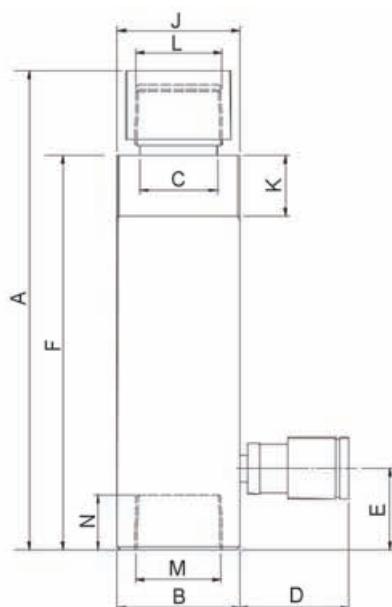
model	HCJ 10 S 6	HCJ 10 S 15	HCJ 10 S 25	HCJ 25 S 15
art no	100.112.062	100.112.063	100.112.064	100.112.065
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	10	10	10	25
stroke length mm	60	150	250	150
closed height mm	202	292	398	323
capacity kN/t	99.3 / 10.1	99.3 / 10.1	99.3 / 10.1	238.9 / 24.4
oil content cm ³	83	207	345	498
effective pressure area cm ²	13.8	13.8	13.8	33.2
weight kg	3.5	5.1	7.2	10.5
maintenance set art no	100.113.121	100.113.121	100.113.121	100.113.301
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A
pressure gauge model	A 501	A 501	A 501	A 502

Construction cylinders - spring return (dimensions)

model	HCJ 10 S 6	HCJ 10 S 15	HCJ 10 S 25	HCJ 25 S 15
A mm	202	292	398	323
B mm	60	60	60	85
C mm	38	38	38	55
D mm	70	70	70	70
E mm	40	40	39	42
F mm	155	245	351	260
J mm	M60 x 2	M60 x 2	M60 x 2	M85 x 2
K mm	30	30	30	42
L	1 1/4" NPT	1 1/4" NPT	1 1/4" NPT	2" NPT
M	1 1/4" NPT	1 1/4" NPT	1 1/4" NPT	2" NPT
N mm	27	27	27	27

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IČ: 25358511 DIČ: CZ25358511



Specifications / important properties

- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- screw-on saddle
 - prevents damage to the plunger
 - easy to replace
- standard fixing thread
 - on plunger head
 - on cylinder housing
 - in cylinder bottom
 - designed for maximum cylinder load

Available on request

- cylinders manufactured in conformity with customer specifications

10 ton HCJ cylinders:

The total length of the FULLY EXTENDED cylinder, including the connected extension pipe, may not exceed 1 metre, in the case of correct transmission of the force, in the middle of the base plate and the saddle. Both surfaces between which pressure is applied must be parallel to each other. Extension pipes may NOT be connected to each other. Exceptions to this are the 250 and 125 mm extension pipes. A maximum of two of these may be connected by means of a connection sock.

Accessories	pag. 80
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HCJ 10 S 6



HCJ 25 S 25



Fixing thread in cylinder bottom



HCJ with fixing thread on plunger head and on cylinder housing



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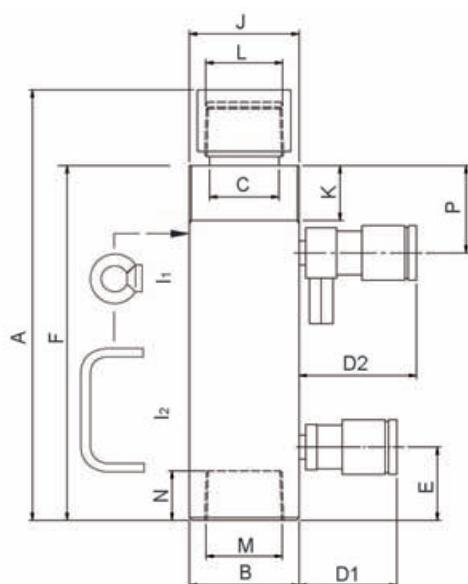
Construction cylinders - hydraulic return

model	HCJ 10 H 15	HCJ 25 H 15	HCJ 25 H 25
art no	100.122.066	100.122.067	100.122.068
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72
tonnage t	10	25	25
stroke length mm	150	150	250
closed height mm	338	350	450
capacity lifting kN/t	99.3 / 10.1	238.9 / 24.4	238.9 / 24.4
capacity pulling kN/t	48.9 / 5	124.5 / 12.7	124.5 / 12.7
oil content* cm ³	207 / 102	498 / 260	829 / 432
effective pressure area* cm ²	13.8 / 6.8	33.2 / 17.3	33.2 / 17.3
weight kg	6.1	12.7	18.2
maintenance set art no	100.123.001	100.123.025	100.123.025
recommended pump model	HTW 1800 B	HTW 1800 B	HTW 1800 B
pressure gauge model	A 501	A 502	A 502

Construction cylinders - hydraulic return (dimensions)

model	HCJ 10 H 15	HCJ 25 H 15	HCJ 25 H 25
A mm	338	350	450
B mm	60	85	85
C mm	30	45	45
D ₁ /D ₂ mm	70 / 85	70 / 85	70 / 85
E mm	40	56	56
F mm	287	297	397
I ₁ /I ₂	-	-	I ₂
J mm	M60 x 2	M85 x 2	M85 x 2
K mm	30	40	40
L	1 1/4" NPT	2" NPT	2" NPT
M	1 1/4" NPT	2" NPT	2" NPT
N mm	27	27	27
P mm	48	60	60

* = press / retract



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Specifications / important properties



- compact
- lightweight
- usable in all positions
- protected against ejection of the plunger
- screw-on saddle
 - prevents damage to the plunger
 - easy to replace
- standard fixing thread
 - on plunger head
 - on cylinder housing
 - in cylinder bottom
- designed for maximum cylinder load

Available on request



- cylinders manufactured in conformity with customer specifications

25 ton HCJ cylinders:

The total length of the FULLY EXTENDED cylinder, including the connected extension pipe, may not exceed 1.75 metres, in the case of correct transmission of the force, in the middle of the base plate and the saddle. Both surfaces between which pressure is applied must be parallel to each other. A maximum of two extension pipes may be connected by means of a connection sock.

- | | |
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HCJ 10 H 15



HCJ 25 H 15



Fixing thread in cylinder bottom



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**Construction cylinder set**

image	description	model	art no	quantity
	construction cylinder set, consists of:	HIK 10 U	100.062.002	
	construction cylinder, spring return construction cylinder, spring return	HCJ 10 S 6 HCJ 10 S 15	100.112.062 100.112.063	1 1
	hydraulic wedge	HW 1000	100.562.009	1
	extension pipe, length 125 mm	10 A1	100.181.501	1
	extension pipe, length 250 mm	10 A2	100.181.502	1
	extension pipe, length 500 mm	10 A3	100.181.503	1
	extension pipe, length 750 mm	10 A4	100.181.504	1
	connection socket	10 B	100.181.510	2
	double nipple	10 G	100.181.515	2
	round base plate	10 C	100.181.512	2
	cross head	10 H	100.181.516	2
	wedge head	10 P	100.581.525	1
	cylinder toe	10 E	100.581.515	1
	plunger toe	10 F	150.581.662	1
	screw-on saddle	10 D	100.181.091	2
	hand pump fitted with item no 16	HTS 550 A	100.541.022	1
	hydraulic hose, length 2 m	H 2 SOU	100.572.102	1
	steel storage case	-	150.581.001	1



Specifications / important properties

- construction cylinder:
 - spring return
 - compact and lightweight
 - usable in all positions
 - protected against ejection of the plunger
- weight of total set incl. storage box: 35 kg

Available on request

- cylinders manufactured in conformity with customer specifications

10 ton HCJ cylinders:

The total length of the FULLY EXTENDED cylinder, including the connected extension pipe, may not exceed 1 metre, in the case of correct transmission of the force, in the middle of the base plate and the saddle. Both surfaces between which pressure is applied must be parallel to each other. Extension pipes may NOT be connected to each other. Exceptions to this are the 250 and 125 mm extension pipes. A maximum of two of these may be connected by means of a connection sock.

Construction cylinders
Accessories construction cylinders

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HIK 10 U





Hollow plunger cylinders - spring return - ≥ 5 ton

model	HHJ 5 S 2.5	HHJ 12 S 5	HHJ 12 S 15	HHJ 17 S 5	HHJ 20 S 5	HHJ 20 S 15
art no	100.111.002	100.111.021	100.111.029	100.112.023	100.112.033	100.112.030
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	5	12	12	17	20	20
stroke length mm	25	50	150	50	50	150
closed height mm	87	156	298	195	182	389
capacity kN/t	54.3 / 5.5	126.7 / 12.9	126.7 / 12.9	169.6 / 17.3	223.9 / 22.8	223.9 / 22.8
oil content cm ³	19	88	264	118	156	467
effective pressure area cm ²	7.5	17.6	17.6	23.6	31.1	31.1
weight kg	1.9	6.3	11	7.3	8.6	18
maintenance set art no	100.113.061	100.113.221	100.113.221	100.113.015	100.113.281	100.113.281
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A
pressure gauge model	A 507	A 507	A 507	A 500	A 507	A 507



Hollow plunger cylinders - spring return - ≥ 5 ton (dimensions)

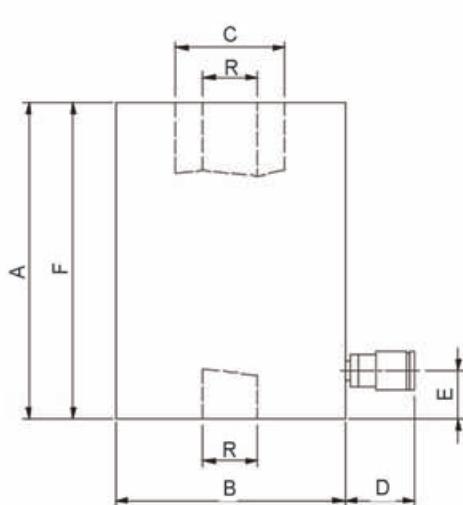
model	HHJ 5 S 2.5	HHJ 12 S 5	HHJ 12 S 15	HHJ 17 S 5	HHJ 20 S 5	HHJ 20 S 15
A mm	87	156	298	195	182	389
B mm	60	86	86	90	100	100
C mm	28	40	40	46	50	50
D mm	90	90	90	90	90	90
E mm	24	27	27	31	31	31
F mm	87	156	298	187	170	377
I ₁ /I ₂	-	-	-	-	-	I ₂
R mm	17	21	21	27	27	27
S mm	-	-	-	M38 x 1.5	M38 x 1.5	M38 x 1.5



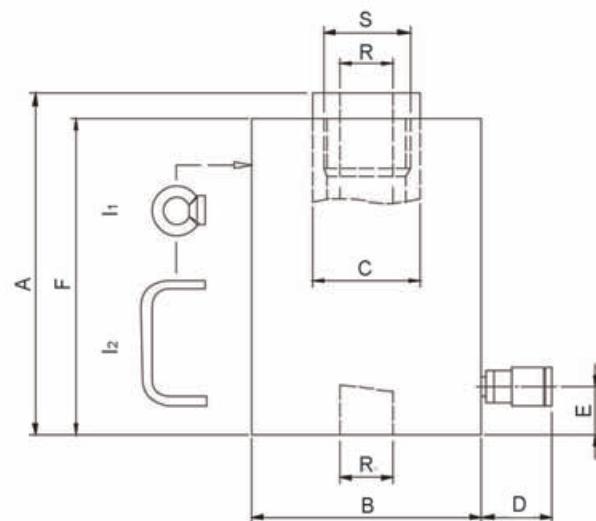
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(1) models without saddle (2) models with saddle



1



2

Specifications / important properties 

- compact
- usable in all positions
- protected against ejection of the plunger
- hollow saddle (HHJ 17 S 5, HHJ 20 S 5 and HHJ 20 S 15)
 - prevents damage to the plunger
 - easy to replace with threaded or flat saddle

Available on request 

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

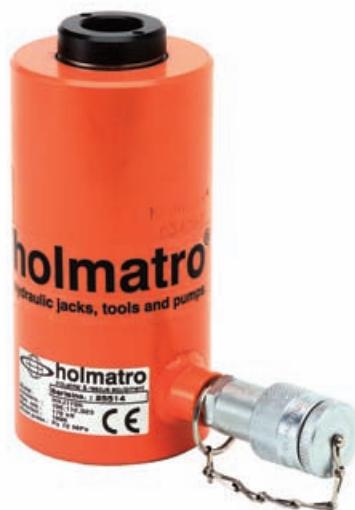
Accessories 

- saddles: hollow, threaded and flat saddles
- tension rods and nuts

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HHJ 5 S 2.5



HHJ 17 S 5



Hollow plunger HHJ 30 S 7.5



HHJ 30 S 7.5 with threaded saddle and tension rod



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Hollow plunger cylinders - spring return - ≥ 30 ton

model	HHJ 30 G 5	HHJ 30 S 7.5	HHJ 30 S 15	HHJ 45 S 15	HHJ 60 S 7.5	HHJ 110 S 7.5
art no	100.111.053	100.112.055	100.112.034	100.112.061	100.112.081	100.112.101
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	30	30	30	45	60	110
stroke length mm	50	75	150	150	75	75
closed height mm	120	226	362	388	272	315
capacity kN/t	293.7 / 30	293.7 / 30	293.7 / 30	453.5 / 46.2	610.4 / 62.2	1107.8 / 113
oil content cm ³	204	306	612	945	636	1155
effective pressure area cm ²	40.8	40.8	40.8	63	84.8	153.9
weight kg	10	15	25	35.5	34.5	78.3
maintenance set art no	100.113.441	100.113.481	100.113.825	100.113.501	100.113.641	100.113.761
recommended pump model	HTS 550 A	HTS 550 A	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 1800 B
pressure gauge model	A 508	A 508	A 508	A 508	A 508	A 509



Hollow plunger cylinders - spring return - ≥ 30 ton (dimensions)

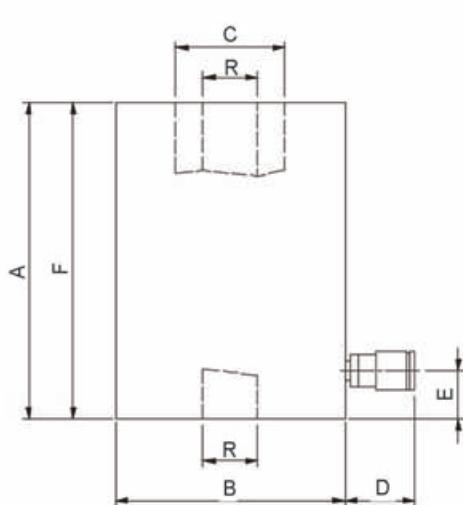
model	HHJ 30 G 5	HHJ 30 S 7.5	HHJ 30 S 15	HHJ 45 S 15	HHJ 60 S 7.5	HHJ 110 S 7.5
A mm	120	226	362	388	272	315
B mm	118	118	120	140	166	238
C mm	70	60	60	65	80	130
D mm	90	90	90	70	70	70
E mm	33	33	32	36	41	40
F mm	120	214	350	376	257	295
I ₁ /I ₂	-	-	I ₁	I ₂	I ₂	I ₁
R mm	33	33	33	39	45	80
S mm	-	M50 x 1.5	M50 x 1.5	M54 x 1.5	M65 x 1.5	M105 x 2



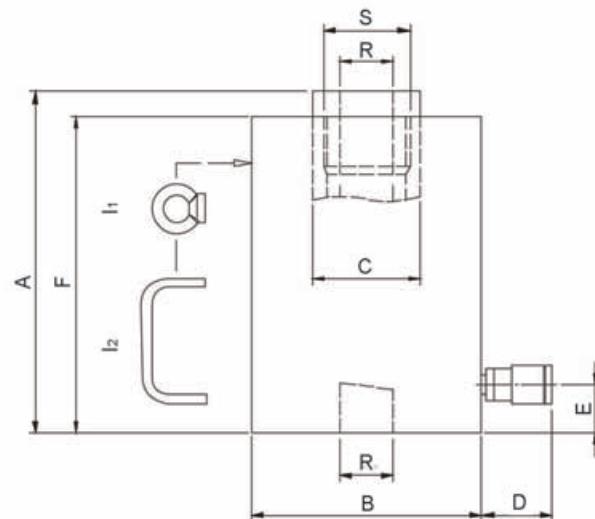
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(1) models without saddle (2) models with saddle



1



2

Specifications / important properties

- compact
- usable in all positions
- protected against ejection of the plunger
- hollow saddle (with the exception of HHJ 30 G 5)
 - prevents damage to the plunger
 - easy to replace with threaded or flat saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Accessories

- saddles: hollow, threaded and flat saddles
- tension rods and nuts

Accessories hollow plunger cylinders	pag. 81
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HHJ 30 G 5



HHJ 110 S 7.5



HHJ 30 S 7.5 with threaded saddle and tension rod



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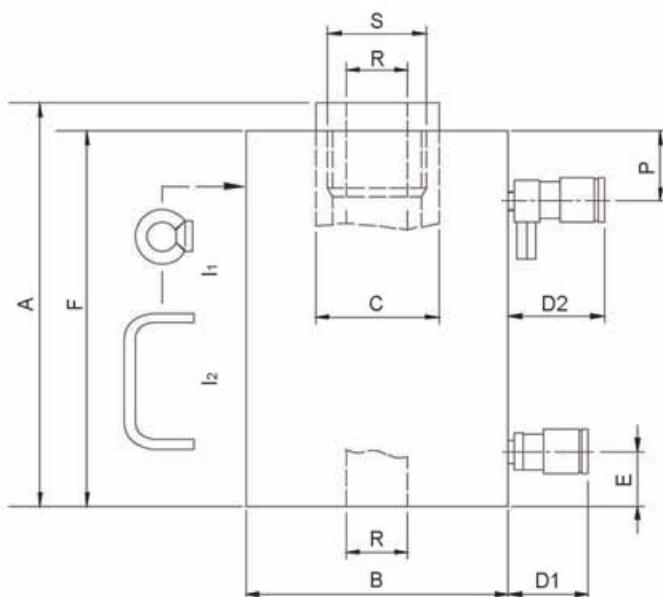
Hollow plunger cylinders - hydraulic return

model	HHJ 30 H 15	HHJ 60 H 20	HHJ 100 H 10	HHJ 100 H 20
art no	100.122.045	100.122.031	100.122.051	100.122.053
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	30	60	100	100
stroke length mm	150	200	100	200
closed height mm	285	334	265	395
capacity lifting kN/t	293.7 / 30	610.4 / 62.2	1018.5 / 103.9	1018.5 / 103.9
capacity pulling kN/t	131 / 13.4	452.4 / 46.1	706.9 / 72	706.9 / 72
oil content* cm ³	613 / 274	1696 / 1256	1415 / 982	2830 / 1964
effective pressure area* cm ²	40.8 / 18.2	84.8 / 62.8	141.5 / 98.2	141.5 / 98.2
weight kg	23	40	53	78
maintenance set art no	100.013.081	100.123.081	100.123.121	100.123.121
recommended pump model	HTW 1800 B	HTW 1800 B	HTW 1800 B	HTW 1800 B
pressure gauge model	A 508	A 508	A 509	A 509

Hollow plunger cylinders - hydraulic return (dimensions)

model	HHJ 30 H 15	HHJ 60 H 20	HHJ 100 H 10	HHJ 100 H 20
A mm	285	334	265	395
B mm	120	166	210	210
C mm	70	80	100	100
D mm	70 / 85	70 / 85	70 / 85	70 / 85
E mm	40	41	52	52
F mm	275	319	245	375
I ₁ /I ₂	I ₂	I ₂	I ₁	I ₁
P mm	50	39	55	75
R mm	33	45	54	54
S mm	M50 x 1.5	M65 x 1.5	M72 x 2	M72 x 2

* = press / retract



Specifications / important properties

- usable in all positions
- protected against ejection of the plunger
- protected against overpressure on return side
- hollow saddle
 - prevents damage to the plunger
 - easy to replace with threaded or flat saddle

Available on request

- fixing thread on cylinder housing
- fixing holes in cylinder bottom
- cylinders manufactured in conformity with customer specifications

Accessories

- saddles: hollow, threaded and flat saddles
- tension rods and nuts

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HHJ 60 H 20



HHJ 60 H 20



HHJ 60 H 20 with hollow saddle



HHJ 30 S 7.5 with threaded saddle and tension rod



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Pulling cylinders - spring or hydraulic return

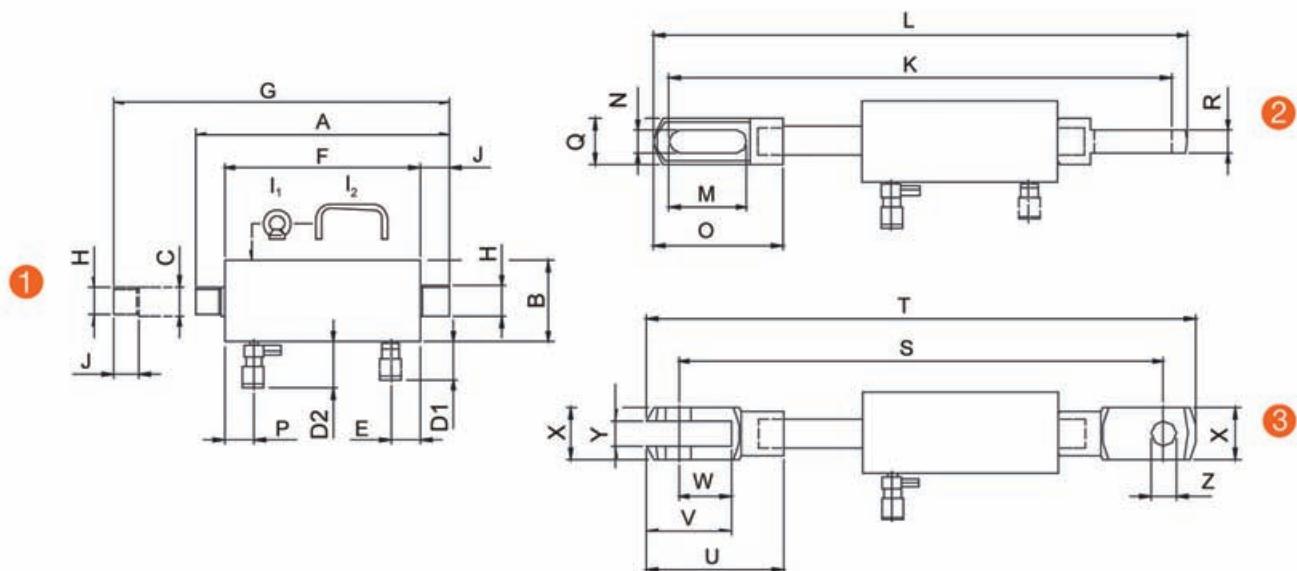
model	HPJ 11 S 15	HPJ 30 S 15	HPJ 60 S 15	HPJ 100 H 15
art no	100.131.001	100.131.011	100.131.021	100.131.031
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage* t	11 / -	30 / -	60 / -	100 / 130
stroke length mm	150	150	150	150
return	spring	spring	spring	hydraulic
capacity pulling kN/t	113 / 11.5	298.7 / 30.5	610.4 / 62.2	953.7 / 97.3
capacity lifting kN/t	- / -	- / -	- / -	1271.9 / 129.7
oil content* cm ³	236 / -	623 / -	1272 / -	1988 / 2651
effective pressure area* cm ²	15.7 / -	41.5 / -	84.8 / -	132.5 / 176.7
weight kg	11.5	26	45	75
maintenance set art no	100.133.001	100.133.051	100.133.101	100.133.151
recommended pump model	HTW 300 B	HTW 1800 B	EHW 1650 RC	HTW 1800 B
pressure gauge model	A 510	A 510	A 510	A 510

Pulling cylinders - spring or hydraulic return (dimensions)

model	HPJ 11 S 15	HPJ 30 S 15	HPJ 60 S 15	HPJ 100 H 15
A mm	320	470	530	440
B mm	92	118	157	210
C mm	40	40	60	75
D ₁ /D ₂ mm	- / 85	- / 85	- / 85	70 / 85
E mm	-	-	-	57
F mm	250	380	400	310
G mm	470	620	680	590
H mm	M38 x 1.5	M38 x 1.5	M54 x 1.5	M72 x 2
I ₁ /I ₂	-	-	-	I ₁
J mm	30	40	60	60

* = retract / press

(1) Pulling cylinder without accessories (2) Pulling cylinder with pulling eyes (3) Pulling cylinder with clevis eyes



Accessories


model	HPJ 11 S 15	HPJ 30 S 15	HPJ 60 S 15	HPJ 100 H 15
pulling eye	art no 100.181.051	100.181.051	100.181.052	100.181.053
clevis eye	art no 100.181.056	100.181.057	-	-
protection spring*	art no 100.581.160	100.581.160	100.581.161	100.182.046

* = 30 mm less stroke length

Accessories (dimensions)


model	HPJ 11 S 15	HPJ 30 S 15	HPJ 60 S 15	HPJ 100 H 15
K mm	760	890	1000	990
L mm	810	940	1080	1110
M mm	120	120	150	200
N mm	35	35	45	45
O mm	200	200	260	320
P mm	38	44	52	57
Q mm	70	70	115	135
R mm	35	35	40	50
S mm	650	828	-	-
T mm	730	916	-	-
U mm	160	188	-	-
V mm	100	116	-	-
W mm	60	72	-	-
X mm	60	70	-	-
Y mm	30	36	-	-
Z mm	30	35	-	-

Specifications / important properties


- compact
- usable in all positions
- protected against ejection of the plunger
- protected against overpressure

Available on request


- fixing thread on cylinder housing
- cylinders manufactured in conformity with customer specifications

Accessories


- pulling and clevis eyes (to be ordered separately, 2 pieces per cylinder)
- protection spring (to be ordered separately)

Hydraulic pumps
Hydraulic hoses
Pressure gauges

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HPJ 11 S 15 with pulling eyes and protection spring



HPJ 30 S 15 with clevis eyes and protection spring



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Attachments

image	description	cylinder capacity 10 ton	cylinder capacity 25 ton
	screw-on saddle	1 1/4" NPT female model: 10 D art no 100.181.091	2" NPT female model: 24 D art no 100.181.092
	round base plate	1 1/4" NPT female model: 10 C art no 100.181.512	2" NPT female model: 25 C art no 100.181.561
	cross head	1 1/4" NPT female model: 10 H art no 100.181.516	2" NPT female model: 25 H art no 100.581.368
	bottom plug	1 1/4" NPT male model: 10 K art no 100.181.519	2" NPT male model: 25 K art no 100.181.569
	extension pipe*	1 1/4" NPT male (2x) L = 125 mm, model: 10 A1, art no 100.181.501 L = 250 mm, model: 10 A2, art no 100.181.502 L = 500 mm, model: 10 A3, art no 100.181.503 L = 750 mm, model: 10 A4, art no 100.181.504	2" NPT male (2x) - L = 250 mm, model: 25 A2, art no 100.181.551 L = 500 mm, model: 25 A3, art no 100.181.552 L = 750 mm, model: 25 A4, art no 100.181.553
	connector	snaplock (2x) to connect two extension pipes model: 10 V, art no 100.181.530	-
	bottom piece	1 1/4" NPT male - snaplock bottom piece between cylinder base and extension pipe model: 10 W, art no 100.181.531	-
	connection socket	1 1/4" NPT female (2x) model: 10 B art no 100.181.510	2" NPT female (2x) model: 25 B art no 100.181.560
	connection nipple	1 1/4" NPT male (2x) model: 10 G art no 100.181.515	2" NPT male (2x) model: 25 G art no 100.181.565
	plunger toe	1 1/4" NPT female, capacity max. 5 ton model: 10 F art no 150.581.662	-
	cylinder toe	M60 x 2 female, capacity max. 5 ton model 10 E art no 100.581.515	-
	wedge head	1 1/4" NPT female model 10 P art no 100.581.525	-

Assembly / welding rings

image	5 ton	10 ton	25 ton	50 ton
	M40 x 1.5 Ø68 x 22 mm art no 100.181.491	M60 x 2 Ø103 x 30 mm art no 100.181.522	M85 x 2 Ø137 x 42 mm art no 100.181.572	M130 x 2 Ø188 x 50 mm art no 100.181.591

*
10 ton HCJ cylinders: The total length of the FULLY EXTENDED cylinder, including the connected extension pipe, may not exceed 1 metre, in the case of correct transmission of the force, in the middle of the base plate and the saddle. Both surfaces between which pressure is applied must be parallel to each other. Extension pipes may NOT be connected to each other. Exceptions to this are the 250 and 125 mm extension pipes. A maximum of two of these may be connected by means of a connection sock.

25 ton HCJ cylinders: The total length of the FULLY EXTENDED cylinder, including the connected extension pipe, may not exceed 1.75 metres, in the case of correct transmission of the force, in the middle of the base plate and the saddle. Both surfaces between which pressure is applied must be parallel to each other. A maximum of two extension pipes may be connected by means of a connection sock.



Tension rods

for cylinder	HHJ 12	HHJ 20	HHJ 30	HHJ 45	HHJ 60	HHJ 100	HHJ 110
model	HTB 12	HTB 20	HTB 30	HTB 45	HTB 60	HTB 110	HTB 110
art no	100.581.021	100.581.002	100.581.003	100.581.022	100.581.004	100.581.005	100.581.005
type of thread	¾" - 10 UNC	1" - 8 UNC	1¼" - 7 UNC	1½" - 8 UN	1 5/8" - 8 UN	2" - 8 UN	2" - 8 UN

Nuts

for cylinder	HHJ 12	HHJ 20	HHJ 30	HHJ 45	HHJ 60	HHJ 100	HHJ 110
model	NUT 12	NUT 20	NUT 30	NUT 45	NUT 60	NUT 110	NUT 110
art no	100.581.031	100.581.012	100.581.013	100.581.032	100.581.014	100.581.015	100.581.015
type of thread	¾" - 10 UNC	1" - 8 UNC	1¼" - 7 UNC	1½" - 8 UN	1 5/8" - 8 UN	2" - 8 UN	2" - 8 UN

Specifications / important properties

- high-quality tension rods and nuts
- standard length 1000 mm
- material: chrome-molybdenum steel ASTM A 193/B7, DIN 42CrMo4
- tensile strength: 863 N/mm²
- yield limit: 726 N/mm²

Available on request

- different lengths
- different screw-thread sizes



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Tension rods and nuts



Flat saddles for perpendicular loads ↓

capacity cylinder	t	20	30	50	100
model		SA 20 FN	SA 30 FN	SA 50 FN	SA 100 FN
art no		100.000.646	100.000.672	100.000.678	100.000.663
diameter (G)	mm	50	60	80	105

Stainless steel tilting saddles for loads at a maximum angle of 5° ↓

capacity cylinder	t	20	30	50	100
model		SA 20 TN SS	SA 30 TN SS	SA 50 TN SS	SA 100 TN SS
art no		160.000.339	160.000.550	160.000.537	160.000.525
diameter (G)	mm	45	65	65	90
additional closed height over flat saddle	mm	10	11	11	23

Specifications / important properties ↓

- flat saddles
 - for perpendicular load
 - hardened
 - O-ring fastening
 - anti-skid grooves
- stainless steel tilting saddles
 - for load to a maximum angle of 5°
 - hardened
 - O-ring fastening
 - anti-skid grooves



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(1) Flat saddle (2) Tilting saddle



1



2

Hollow saddles

capacity cylinder	t	17 / 20	30	45	60	100	110	110
model		S 20 A	S 35 A	S 45 A	S 60 A	S 100 A	S 110 A	S 110 SP
art no		100.181.011	100.181.014	100.181.017	100.181.020	100.181.023	100.181.026	100.181.029
diameter (G)	mm	48	58	63	78	95	125	125
diameter (R)	mm	27	33	39	45	54	80	54

Thread saddles

capacity cylinder	t	17 / 20	30	45	60	100	110	110
model		S 20 C	S 35 C	S 45 C	S 60 C	S 100 C	S 110 C	-
art no		100.181.013	100.181.016	100.181.019	100.181.022	100.181.025	100.181.028	-
diameter (G)	mm	48	58	63	78	95	125	-
diameter (R)	mm	1" - 8 UNC	1 1/4" - 7 UNC	1 1/2" - 8 UN	1 5/8" - 8 UN	2" - 8 UN	2" - 8 UN	-

Flat saddles

capacity cylinder	t	17 / 20	30	45	60	100	110	110
model		S 20 B	S 35 B	S 45 B	S 60 B	S 100 B	S 110 B	-
art no		100.181.012	100.181.015	100.181.018	100.181.021	100.181.024	100.181.027	-
diameter (G)	mm	48	58	63	78	95	125	-

Specifications / important properties

- hollow saddle
 - standard mounted on hollow plunger cylinders
 - perfect to combine with tension rods and nuts
- threaded saddle
 - perfect to combine with tension rods
- flat saddle
 - allows for incidental use as normal cylinder

Available on request

- different hole sizes in hollow saddles
- different screw-thread sizes in threaded saddles

(1) Hollow saddle (2) Threaded saddle (3) Flat saddle



Flat saddles for perpendicular loads

capacity cylinder	t	5	10	20 / 25 / 30	50 / 75	100 / 150*	200	300 / 400 / 500
model		S 5 FN	S 10 FN	S 25 FN	S 50 FN	S 100 FN	S 200 FN	S 500 FN
art no		100.181.031	100.181.032	100.181.033	100.181.034	100.181.035	100.181.036	100.181.037
diameter (G)	mm	20	38	35	65	90	140	170

Tilting saddles for loads at a maximum angle of 5°

capacity cylinder	t	5	10	20 / 25 / 30	50 / 75	100 / 150*	200	300 / 400 / 500
model	-		S 10 TN	S 25 TN	S 50 TN	S 100 TN	S 200 TN	S 500 TN
art no	-		100.181.041	100.181.042	100.181.043	100.181.044	100.999.040	100.999.232
diameter (G)	mm	-	35	45	65	90	140	180
additional closed height over flat saddle	mm	-	17	10	11	11	23	38

Specifications / important properties

- flat saddles
 - for perpendicular load
 - hardened
 - snap-lock fastening except S 200 FN and S 500 FN (bolt fastening)
 - anti-skid grooves
- tilting saddles
 - for load to a maximum angle of 5°
 - hardened
 - snap-lock fastening except S 200 TN en S 500 TN (bolt fastening)
 - anti-skid grooves

* = Choose a 200 ton flat or tilting saddle for 150 tons locknut cylinders.

(1) Flat saddle (2) Tilting saddle



①



②



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Lifting tools



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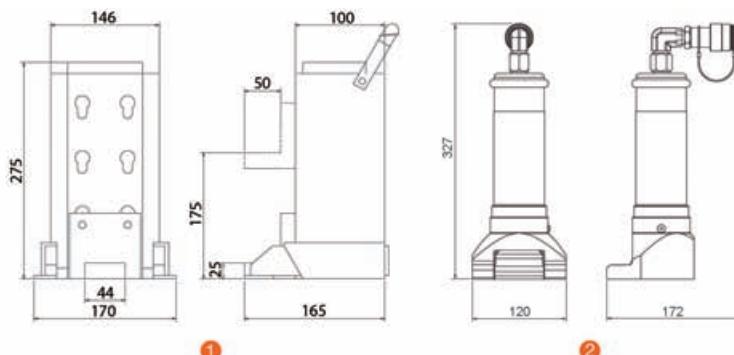
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Toe cylinders - spring return

model	HMJ 10 S 15 U	TJ 8 S 13
art no	100.569.002	100.112.102
working pressure bars/Mpa	720 / 72	720 / 72
tonnage t	10	8
stroke length mm	150	130
closed height mm	275	319
capacity (head) kN/t	98.1 / 10	- / -
capacity (toe) kN/t	49 / 5 - 78.5 / 8	88.3 / 8.4
oil content cm ³	208	207
weight kg	18.5	6.5
maintenance set art no	100.113.121	150.013.936
recommended pump model	HTS 550 A	HTS 550 A
pressure gauge model	A 501	A 501

(1) H MJ 10 S 15 U (2) TJ 8 S 13

**Specifications** / important properties

- H MJ 10 S 15 U
 - toe height adjustable in 3 positions: 25, 100 and 175 mm
 - protected against ejection of the plunger
 - telescopic support legs
- TJ 8 S 13
 - anti-skid profile on the toe
 - usable in all positions
 - compact construction, low weight
 - minimum tip clearance 18.5 mm
 - toe can be rotated 360°

Available on request

- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
Hydraulic hoses
Pressure gauges

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H MJ 10 S 15 U



TJ 8 S 13



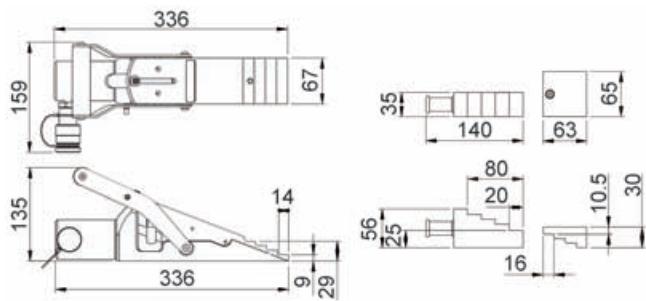
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Vertical lifting wedge - spring return

model	HVLW 16 S 2
art no	100.112.104
working pressure bars/Mpa	720 / 72
tonnage t	16
min. insertion space mm	10
lifting stroke mm	19
spreading force kN/t	156.6 / 16
oil content cm ³	75
weight kg	8.8
maintenance set art no	100.113.121
recommended pump model	HTS 550 A
pressure gauge model	A 500


Specifications / important properties


- 100% vertical lifting movement
 - prevents misalignment of load
- automatic mechanical retraction of lifting plate
- minimum tip clearance (10 mm)
- vertical lifting stroke of 19 mm at each step
- standard delivered in plastic carrying box, including:
 - safety block
 - step block
 - grease pistol
 - grease cartridge Molycote®

Hydraulic pumps
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HVLW 16 S 2



HVLW 16 S 2 in case



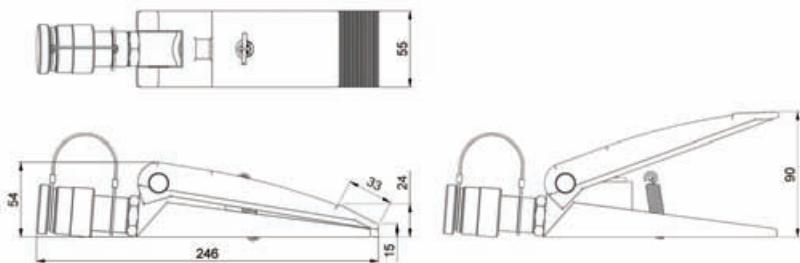
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**Wedge** - spring return

model	HW 1000
art no	100.562.009
working pressure bars/Mpa	720 / 72
tonnage t	1
min. insertion space mm	15
lifting stroke mm	90
spreading force kN/t	10 / 1.1
oil content cm ³	10
weight kg	2.1
maintenance set art no	150.013.046
recommended pump model	HTS 550 A
pressure gauge model	A 500

**Specifications** / important properties

- compact
- lightweight
- anti-skid profile on wedge arms
- usable in all positions

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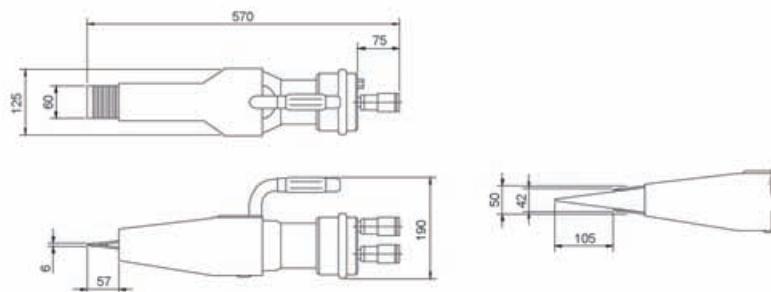


HW 1000


Wedge - hydraulic return

model	HWJ 25 U
art no	100.102.021
working pressure bars/Mpa	720 / 72
tonnage t	25
min. insertion space mm	5
lifting stroke mm	50
spreading force* kN/t	235.4 / 24
oil content* cm ³	328 / 217
weight kg	8.1
maintenance set art no	100.103.081
recommended pump model	HTW 1800 B + M 321
pressure gauge model	A 500

* = press / retract


Specifications / important properties


- minimum tip clearance (5 mm)
- compact construction
- low weight
- anti-skid profile on wedge blades
- usable in all positions

Hydraulic pumps
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HWJ 25 U



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**Lifting bags**

model	HLB 1	HLB 3	HLB 5	HLB 10	HLB 12	HLB 18
art no	350.321.003	350.321.004	350.321.006	350.321.007	350.321.008	350.321.009
working pressure bars/Mpa	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8
max. lifting capacity kN	10	35	50	100	120	180
max. lifting capacity t	1	3.7	5.1	10.2	12.2	18.3
max. inflation height mm	80	130	150	215	225	240
dimensions (lxb) mm	150 x 150	228 x 228	270 x 270	380 x 380	408 x 408	660 x 360
weight kg	0.6	1.5	2	3.8	5	6.8
thickness incl. profile mm	22	22	22	25	25	25
air content (8 bars) l	6.3	16.2	22.5	76.5	90	171
water content (8 bars) l	0.7	1.8	2.5	8.5	10	19
bursting pressure bars	> 32	> 32	> 32	> 32	> 32	> 32
connection	1/8" NPT female					
air coupler	art no	390.511.155	390.511.155	390.511.155	390.511.155	390.511.155

**Lifting bags**

model	HLB 20	HLB 24	HLB 29	HLB 32	HLB 40	HLB 67
art no	350.321.010	350.321.012	350.321.017	350.321.013	350.321.014	350.321.015
working pressure bars/Mpa	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8	8 / 0.8
max. lifting capacity kN	200	240	300	320	400	670
max. lifting capacity t	20.3	24.4	30.6	32.6	40.7	68
max. inflation height mm	290	215	348	380	405	520
dimensions (lxb) mm	508 x 508	310 x 1000	611 x 611	658 x 658	714 x 714	908 x 908
weight kg	6.7	9.5	9.8	13	15.1	23.5
thickness incl. profile mm	25	25	25	25	25	25
air content (8 bars) l	189	216	373.5	450	558	1206
water content (8 bars) l	21	24	41.5	50	62	134
bursting pressure bars	> 32	> 32	> 32	> 32	> 32	> 32
connection	1/8" NPT female					
air coupler	art no	390.511.155	390.511.155	390.511.155	390.511.155	390.511.155



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Specifications / important properties

- standard delivered with quick coupler male
- the maximum effective lifting power is achieved with minimum inflation height; the higher the lifting bag is inflated, the further the lifting power decreases (see lifting capacity / height diagrams).
- small dimensions
 - compact when empty
 - unique lowered plug-in edges
- made from nitril rubber enforced with aramid (NBR)
 - very flexible, adapts to the surface
 - maximum grip on any base
 - proven durability
 - low maintenance
- even spreading of pressure force
- suitable for many applications
 - good alternative for traditional mechanical systems
 - easy to install under all conditions
 - works with air (alternatives: water and oil)
- carrying straps on HLB 40 and HLB 67

Available on request

- lifting capacity / height diagrams per model

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Air control sets	pag. 94



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HLB 1



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HLB 18



HLB 67

Diagram 1 - HLB 1 up to 5

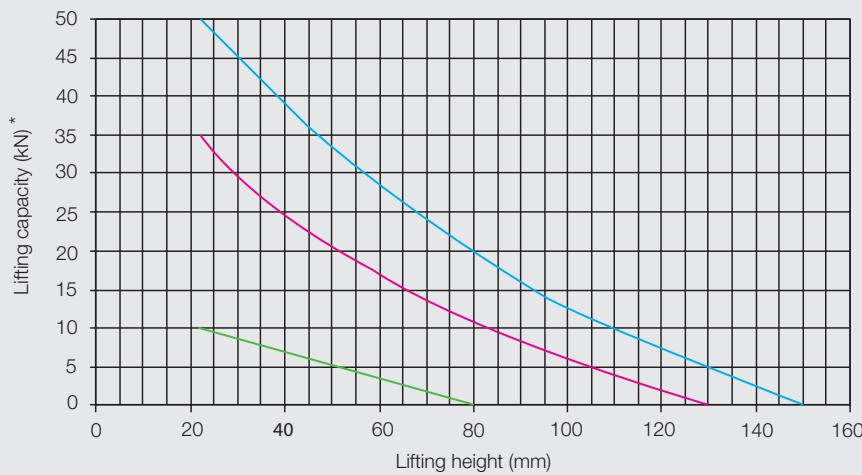


Diagram 2 - HLB 10 up to 20

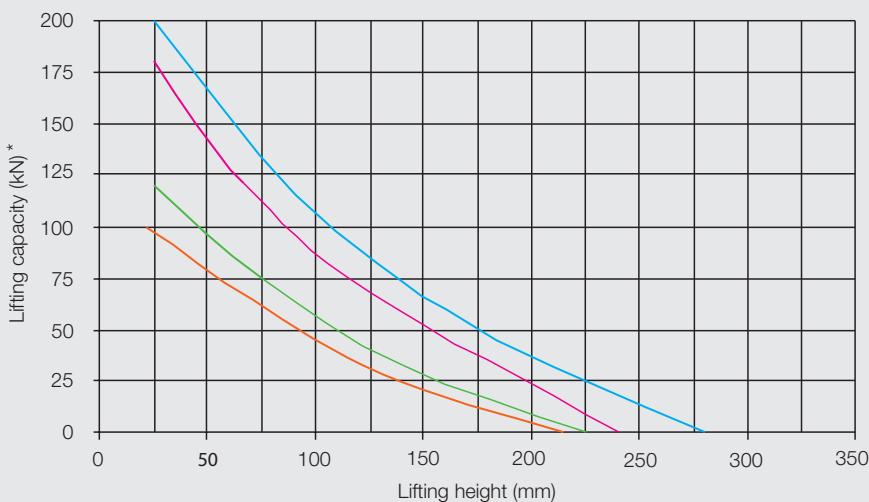
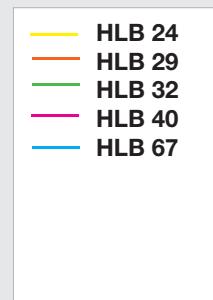
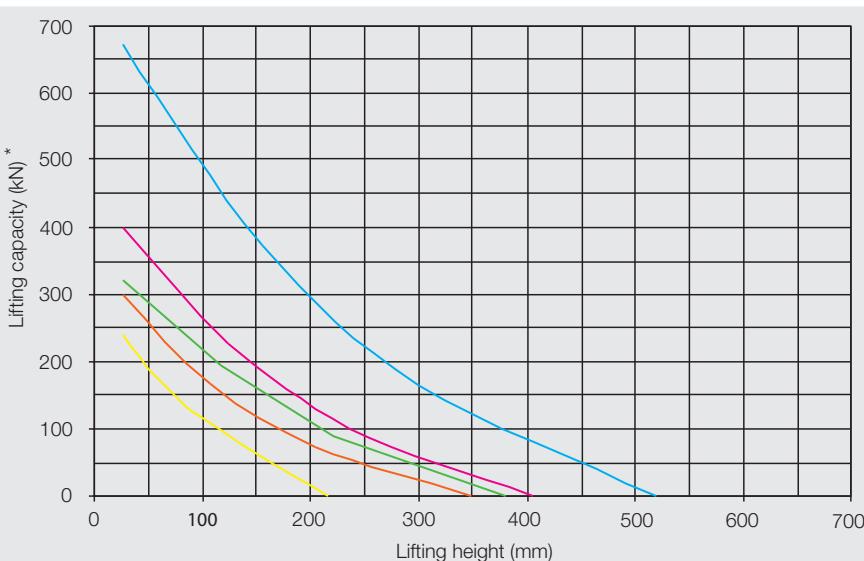


Diagram 3 - HLB 24 up to 67



* actual lifting capacity can deviate 10%.



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Hoses

model	AH 5 YU	AH 5 BU	AH 5 RU	AH 10 YU	AH 10 BU	AH 10 RU
art no	350.572.006	350.572.007	350.572.008	350.572.009	350.572.011	350.572.012
length m	5	5	5	10	10	10
colour	yellow	blue	red	yellow	blue	red

Operating valves

description	model	art no
control unit (single), for the control of 1 lifting bag, safety valve set at 8.5 bars	SCV 10 U	350.582.042
control unit (double), for the control of 2 lifting bags, safety valves set at 8.5 bars	DCV 10 U	350.582.034
control unit (triple), for the control of 3 lifting bags, safety valves set at 8.5 bars	TCV 10 U	350.582.059
control unit (double), for the control of 4 lifting bags, safety valves set at 8.5 bars	QCV 10 U	350.582.060
synthetic control box (bars), for the control of 2 lifting bags, safety valves set at 8.5 bars	HDC 10 AU	350.182.003
synthetic control box (Mpa), for the control of 2 lifting bags, safety valves set at 8.5 bars	HDC 10 AJU	350.182.004

Accessories

description	model	art no
shut-off hose with safety valve set at 8.5 bars	-	350.582.035
air bottle 6 L, 200 bars	-	350.581.086
air bottle 6 L, 300 bars	-	350.581.096
connection piece for 2 air bottles 200 bars	-	350.582.420
connection piece for 2 air bottles 300 bars	-	350.582.430
pressure reducer for both 200 and 300 bars, 5/8" DIN	PRV 823 AU	350.182.002
air adapter set for connection on various air sources; delivered in synthetic carrying/storage box	UAS 10	350.582.050



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Various accessories



**Control sets** lifting bags

description	model	art no
air control set 200 bars, consists of: • pressure reducer PRV 823 AV • synthetic control box HDC 10 AU • shut-off hose (2x) • hose AH 5 RU • hose AH 5 BU • connection piece 200 bars • synthetic carrying/storage box	HCS 10 U	350.582.435
air control set 200 bars, consists of: • pressure reducer PRV 823 AV • control unit (double) DCV 10 U • shut-off hose (2x) • hose AH 5 RU • hose AH 5 BU • connection piece 200 bars • synthetic carrying/storage box	DCS 10 U	350.582.436
air control set 300 bars, consists of: • pressure reducer PRV 823 AV • synthetic control box HDC 10 AU • shut-off hose (2x) • hose AH 5 RU • hose AH 5 BU • connection piece 300 bars • synthetic carrying/storage box	HCS 10 U	350.582.038
air control set 300 bars, consists of: • pressure reducer PRV 823 AV • control unit (double) DCV 10 U • shut-off hose (2x) • hose AH 5 RU • hose AH 5 BU • connection piece 300 bars • synthetic carrying/storage box	DCS 10 U	350.582.039



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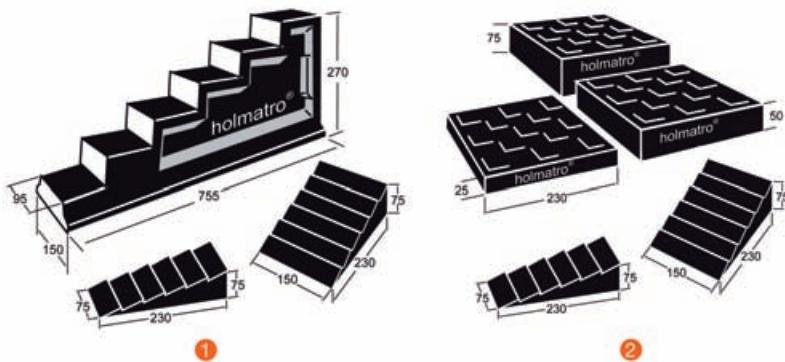
Air control set HCS 10 U




Chocks and blocks

description	step chock	lock block (low)	lock block (medium)	lock block (high)	wedge (small)	wedge (large)
art no	150.563.060	150.563.061	150.563.071	150.563.073	150.563.049	150.563.050
weight kg	7	1	2	3	0.5	1
set A, art no 150.562.010	2x	-	-	-	2x	2x
set B, art no 150.562.004	-	2x	2x	2x	2x	2x

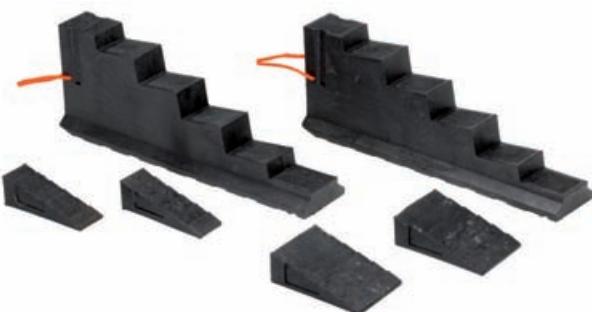
(1) Chocks and blocks set A (2) Chocks and blocks set B


Specifications / important properties


- environment-friendly
 - recycled polyethylene and 100% reusable
- longer life than hardwood, does not splinter
- made in one piece, practically indestructible
- lightweight, floats on water
- non-absorbing
 - water and oil repellent
- stackable
- anti-skid because of unique profile
- flexible under pressure, extra grip
- high allowed area pressure: 100 kg/cm² in all directions
- temperature range loaded: -20°C to +50°C


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Chocks and blocks set A



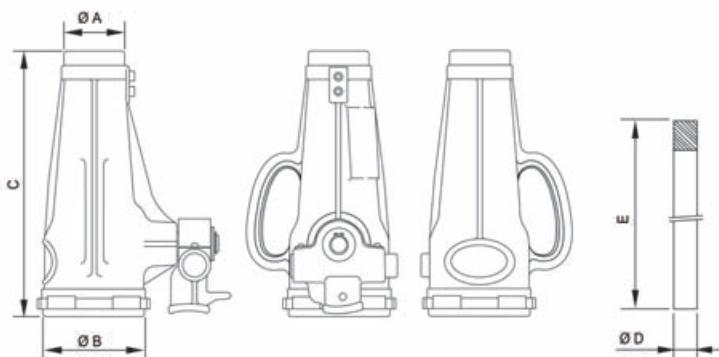
Chocks and blocks set B

Mechanical jacks

model	JJ 1015	JJ 1513	JJ 2513	JJ 3513	JJ 5013	JJ 10011
art no	200.401.001	200.401.011	200.401.021	200.401.031	200.401.041	200.401.051
tonnage t	10	15	25	35	50	100
closed height mm	280	255	255	280	290	310
stroke length mm	150	125	125	130	130	105
base Ø mm	108	113	127	147	166	235
capacity kN/t	98.1 / 10	147.2 / 15	245.3 / 25	343.4 / 35	490.5 / 50	981.0 / 100
handle bar Ø x length mm	25 x 600	25 x 710	25 x 900	32 x 1000	32 x 1200	32 x 1500
weight kg	12	12	16	24	31	75
maintenance set art no	200.403.001	200.403.001	200.403.201	200.403.301	200.403.301	200.403.501

Mechanical jacks (dimensions)

model	JJ 1015	JJ 1513	JJ 2513	JJ 3513	JJ 5013	JJ 10011
A mm	65	65	77	87	105	-
B mm	108	108	127	147	166	-
C mm	280	280	255	280	290	-
D mm	25	25	25	32	32	-
E mm	900	900	900	1000	1200	-

**Specifications / important properties**

- safe
 - self-locking
- usable in all positions
- robust
 - resistant to continuous heavy operating conditions
- can be used close to welding works
- can be used under water
- low maintenance



JJ 1513



JJ 2513



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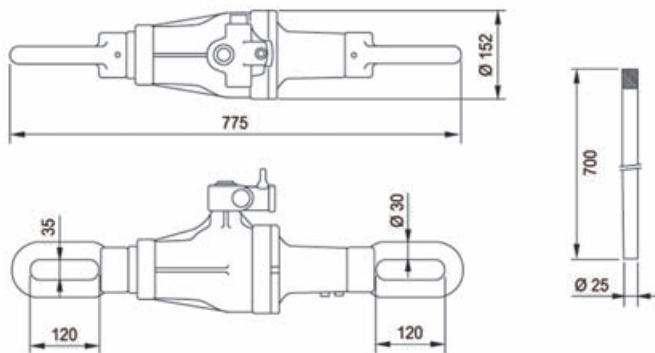
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Mechanical pulling jack



model	PL 2510
art no	200.421.001
tonnage	t 25
length retracted plunger	mm 775
stroke length	mm 100
capacity	kN/t 245.3 / 25
handle bar Ø x length	mm 25 x 700
weight	kg 32
onderhoudsset	art no 200.403.201



Specifications / important properties



- safe
 - self-locking
- usable in all positions
- robust
 - resistant to sustained heavy operating conditions
- for use at places where welding takes place
- suitable for use under water
- low maintenance

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PL 2510

Rack jacks - standard construction height

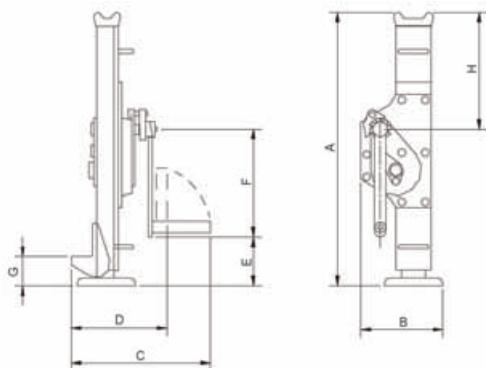


model	1500 LA	1500 LB	3000 LA	3000 LB	5000 LA	5000 LB	10000 LA	10000 LB
art no	210.301.015	210.301.115	210.301.030	210.301.130	210.301.050	210.301.150	210.301.100	210.301.200
capacity kN/t	14.7 / 1.5	14.7 / 1.5	29.4 / 3	29.4 / 3	49 / 5	49 / 5	98 / 10	98 / 10
lifting height mm	350	350	350	350	350	350	300	300
weight kg	13	13	20	20	27	27	42	42

Rack jacks - standard construction height (dimensions)



model	1500 LA	1500 LB	3000 LA	3000 LB	5000 LA	5000 LB	10000 LA	10000 LB
A mm	725	725	725	725	725	725	800	800
B mm	140	140	190	190	210	210	255	255
C mm	290	290	310	310	330	330	475	475
D mm	190	190	210	210	230	230	275	275
E mm	100	100	100	100	100	100	100	100



Specifications / important properties



- LA-series: model with safety crank and snap handle
- LB-series: model with ratchet safety crank and snap handle
- robust
 - resistant to continuous heavy operating conditions
- usable everywhere
- lifting points on head and hook
- usable in all positions
- folding rotating grip
- low maintenance



1500 LA/LB



Detail rack jack



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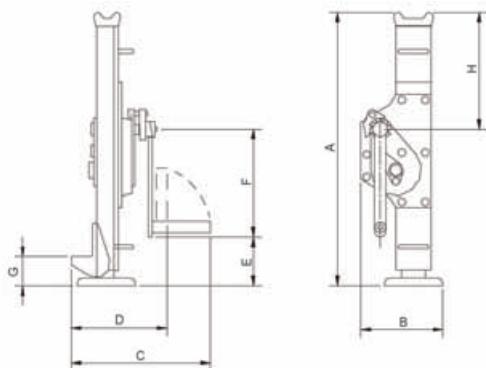


Rack jacks - reduced construction height


model	1500 KA	1500 KB	3000 KA	3000 KB	5000 KA	5000 KB	10000 KA	10000 KB
art no	210.301.215	210.301.315	210.301.230	210.301.330	210.301.250	210.301.350	210.301.300	210.301.400
capacity kN/t	14.7 / 1.5	14.7 / 1.5	29.4 / 3	29.4 / 3	49 / 5	49 / 5	98 / 10	98 / 10
lifting height mm	250	250	275	275	300	300	300	300
weight kg	11	11	18	18	24	24	38	38

Rack jacks - reduced construction height (dimensions)


model	1500 KA	1500 KB	3000 KA	3000 KB	5000 KA	5000 KB	10000 KA	10000 KB
A mm	565	565	607	607	612	612	655	655
B mm	147	147	192	192	208	208	245	245
C mm	292	292	335	335	360	360	545	545
D mm	200	200	240	240	260	260	300	300
E mm	72	72	76	76	96	96	90	90


Specifications / important properties


- KA-series: model with safety crank and snap handle
- KB-series: model with ratchet safety crank and snap handle
- robust
 - resistant to continuous heavy operating conditions
- usable everywhere
- lifting point on head and hook
- usable in all positions
- folding rotating grip
- low maintenance



1500 KA/KB



Detail rack jack


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Ship wedges

model	W 50	W 80
art no	500.501.050	500.501.080
static load capacity kN/t	490.5 / 50	784.8 / 80
max. height mm	225	340
min. height mm	190	275
dimensions mm	245 x 255	320 x 345
weight kg	29	64,5

Specifications / important properties

- unloads in one go with maximum load
- robust
 - resistant to continuous heavy operating conditions
- can be used close to welding works
- low maintenance



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W 50

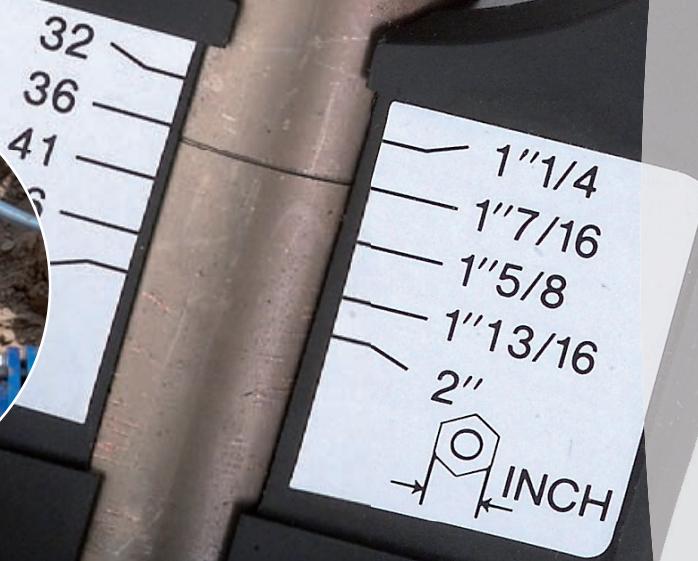
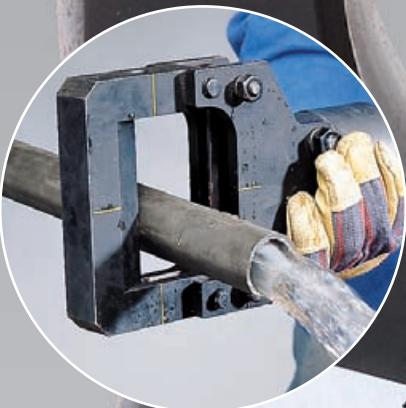


Hand tools



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Puller sets - spring return



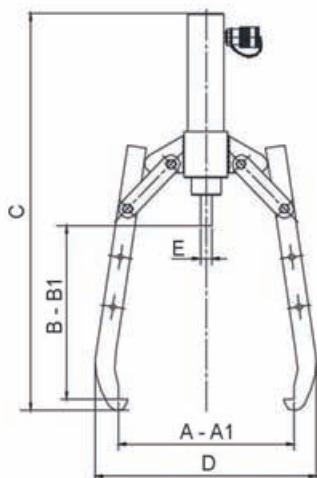
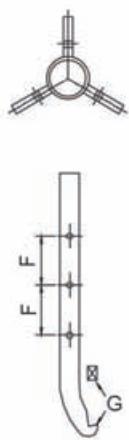
model	HP 5	HP 10	HP 17	HP 30
art no	100.562.001	100.562.002	100.562.003	100.562.004
A (min. / max.) mm	30 / 150	50 / 295	80 / 390	100 / 485
B (min. / max.) mm	50 / 150	130 / 290	10 / 240	60 / 310
C (max.) mm	350	660	950	1200
D (max.) mm	200	375	490	630
E mm	16	19	-	-
F mm	50	80	115	125
G mm	20 x 7	25 x 15	32 x 18	40 x 22
weight excl. cylinder kg	2.2	8.5	18.5	36.5
required cylinder model	HTJ 5 S 12	HCJ 10 S 15	HHJ 17 S 5	HHJ 30 S 7.5
weight incl. cylinder kg	4	13.5	27.5	51

Required cylinders - spring return

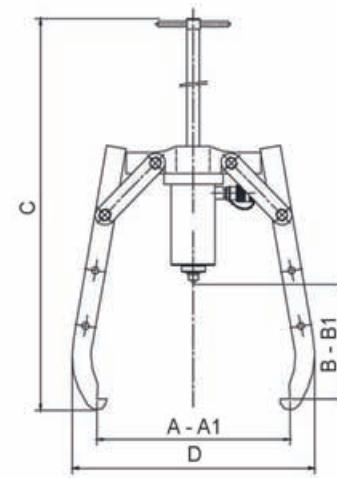
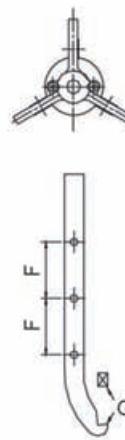


model	HTJ 5 S 12	HCJ 10 S 15	HHJ 17 S 5	HHJ 30 S 7.5
art no	100.112.004	100.112.063	100.112.023	100.112.055
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
tonnage t	5	10	17	30
stroke length mm	120	150	50	75
closed height mm	202	292	195	226
capacity kN/t	47.5 / 48	99.3 / 10.1	169.6 / 17.3	293.7 / 30
oil content cm ³	80	207	118	306
effective pressure area cm ²	6.6	13.8	23.6	40.8
weight kg	1.7	5.1	7.3	15
maintenance set art no	100.113.021	100.113.121	100.113.015	100.113.481
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A	HTS 550 A
pressure gauge model	A 501	A 501	A 500	A 508

(1) HP 5 / HP 10 (2) HP 17 / HP 30



1



2



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Specifications / important properties 

- adjustable for broad range of pulleys
- compact and lightweight
- usable in all positions

Available on request 

- cylinders manufactured in conformity with customer specifications

Hydraulic pumps
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Pressure gauges

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HP 5



HP 17



**Flange spreaders** - spring return

model	FLS 85 NU	FLS 170 NU	FLS 210 NU
art no	100.102.001	100.102.011	100.102.004
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72
spreading force 60° wedge kN/t	34.3 / 3.5	34.3 / 3.5	34.3 / 3.5
spreading force 30° wedge kN/t	73.5 / 7.5	73.5 / 7.5	73.5 / 7.5
flange opening 60° wedge min	3 mm	3 mm	3 mm
flange opening 60° wedge max	32 mm	32 mm	32 mm
flange opening 30° wedge min	2 mm	2 mm	2 mm
flange opening 30° wedge max	25 mm	25 mm	25 mm
oil content cm ³	50	50	50
weight incl. case kg	6.3	9.5	11
weight spreader kg	4.5	8	9.5
maintenance set art no	100.113.021	100.113.021	100.113.021
recommended pump model	HTS 550 A	HTS 550 A	HTS 550 A
pressure gauge model	A 500	A 500	A 500

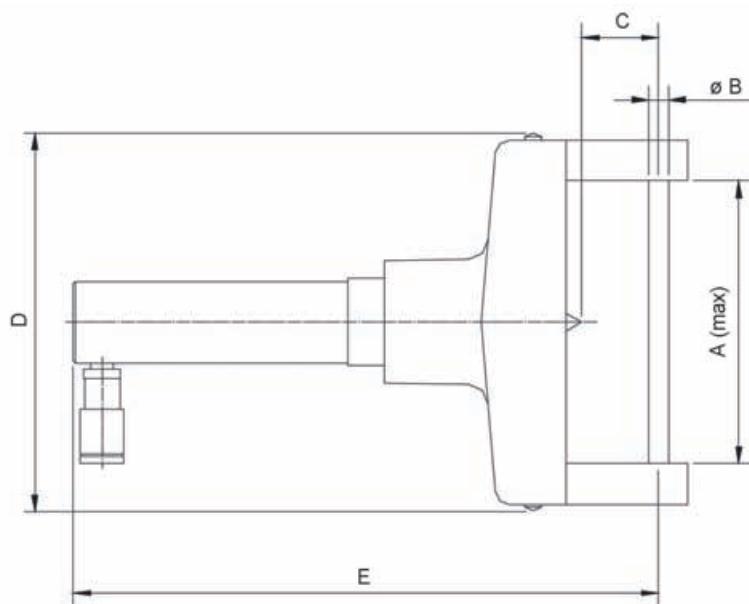
**Flange spreaders** - spring return (dimensions)

model	FLS 85 NU	FLS 170 NU	FLS 210 NU
A mm	85	170	210
B mm	15	20	30
C mm	30	32.5	75
D mm	128	208	255
E mm	263	266	348



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Specifications / important properties

- standard delivered with 60° spreading wedge
- safe
 - no flying off parts or sparks
- compact and lightweight
- easy to use
- two or more can be used for a more equal distribution of forces
- standard delivered in plastic carrying box, including:
 - high-grade grease Molycote®

Available on request

- spreading wedge with 30° angle for:
 - FLS 85 NU, art no 100.103.009
 - FLS 170 NU, art no 100.103.018
- flange spreader with opening larger than 210 mm

Hydraulic pumps
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FLS 85 NU



FLS 170 NU



FLS 210 NU



**Nut splitters - spring return**

model	HNC 1536 NU	HNC 3250 U
art no	100.102.009	100.102.006
working pressure bars/Mpa	720 / 72	720 / 72
splitting capacity kN/t	148 / 15	316 / 32
min. reach bolt met. size	M12 (1/2")	M22 (7/8")
min. reach bolt hex. size	19 mm (3/4")	32 mm (1 1/4")
max. reach category 8 bolt met. size	M24 (7/8")	M33 (1 1/4")
max. reach category 8 bolt hex.size	36 mm (1 7/16")	50 mm (2")
max. reach 2H bolt met. size	M20 (3/4")	M33 (1 1/4")
max. reach 2H bolt hex. size	30 mm (1 1/4")	50 mm (2")
oil content cm ³	32	57
weight incl. case kg	4.2	8.6
weight tool kg	2.9	7.2
maintenance set art no	100.103.035	100.103.059
recommended pump model	HTS 550 A	HTS 550 A

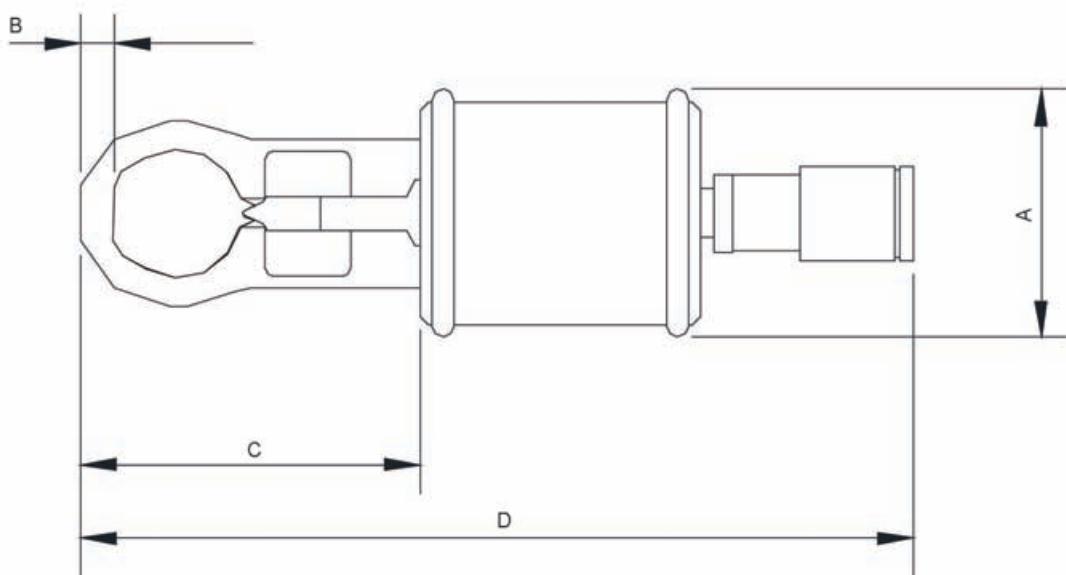
**Nut splitters - spring return (dimensions)**

model	HNC 1536 NU	HNC 3250 U
A mm	86	118
B mm	11	19
C mm	104 / 117	139 / 148
D mm	277 / 290	321 / 330
thickness cutting head mm	23	33



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Specifications / important properties

- compact
- lightweight
- usable in all positions
- safe
 - no flying off parts or sparks
- adjustable blade
 - prevents damage to the thread
- standard delivered in plastic carrying box, including:
 - high-grade grease Molycote®
 - spare blade

Hydraulic pumps
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Pressure gauges

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HNC 1536 NU



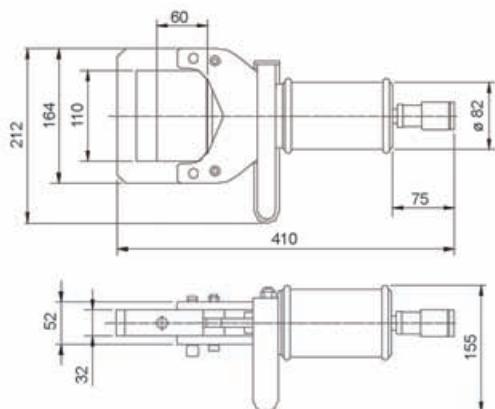
HNC 3250 U



HNC 3250 U with adjustable head

Pipe squeezer - spring return

model	HPS 60 AU
art no	100.102.019
working pressure bars/Mpa	720 / 72
squeezing force kN/t	152.9 / 15.6
max. Ø pipe (external) mm	60
max. wall thickness pipe mm	4
oil content cm ³	130
weight kg	8.6
maintenance set art no	150.563.310
recommended pump model	HTS 550 A

**Specifications / important properties**

- compact
- lightweight
- jaw with quick-lock ring

Hydraulic pumps
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HPS 60 AU



Hydraulic pumps



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Hand pumps - single-acting



model	HTS 550 A	HTW 300 B	HTW 700 A	HTW 2200 A
art no	100.541.022	100.441.003	100.441.013	100.542.003
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
max. operating force kg	50	36.5	52	40
output 1 st stage cm ³ /stroke	3	5	11	13
output 2 nd stage cm ³ /stroke	-	1	2	2.5
max. pressure 1 st stage bars	720	30	30	30
effective oil content cm ³	550	300	700	2200
weight incl. oil kg	6	4	8	13.3
maintenance set art no	150.113.251	100.443.066	100.443.494	100.543.100

Hand pumps - single-acting (dimensions)

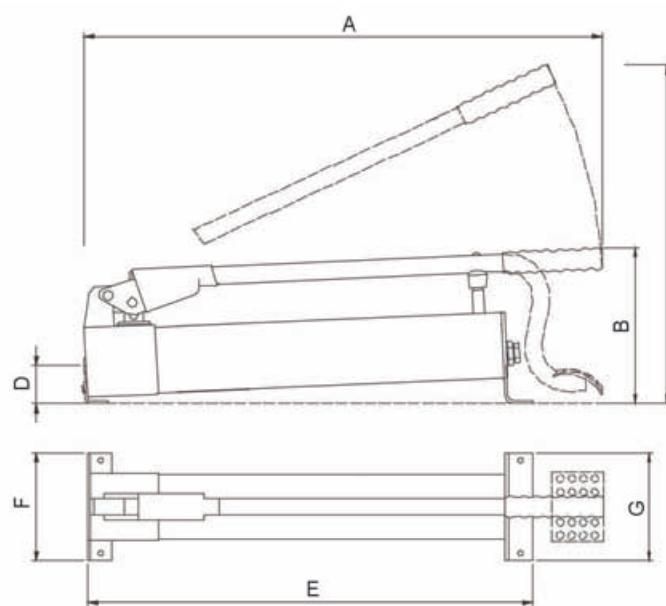


model	HTS 550 A	HTW 300 B	HTW 700 A	HTW 2200 A
A mm	540	500	600	730
B mm	135	115	170	215
C mm	450	435	600	675
D mm	42	25	53	52
E mm	475	375	480	625
F mm	135	90	135	145
G mm	100	70	115	105



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Specifications / important properties



- 1-stage pumps:
 - suitable for small volumes
 - low speed
 - low costs
- 2-stage pumps:
 - suitable for large volumes
 - with low pressure up to 9 x faster than 1-stage pumps
 - automatic change over from first to second stage
- compact and lightweight
- little maintenance
- large oil output per stroke
- provided with dipstick (HTW 300 B and HTW 700 A)
- connection: 3/8" NPT, female
- base plate standard with HTW 2200 A

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HTS 550 A



HTW 300 B



HTW 700 A



HTW 2200 A

Hand / foot pumps - single- or double-acting

model	H/FTW 1800 B	H/FTW 2800 B	H/FTW 5800 B	H/FTW 8800 B
art no	100.141.005/008	100.141.002/009	100.141.004/010	100.141.006/007
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
max. operating force kg	36	36	36	36
output 1 st stage cm ³ /stroke	28	28	28	28
output 2 nd stage cm ³ /stroke	2.3	2.3	2.3	2.3
max. pressure 1 st stage bars	45	45	45	45
effective oil content cm ³	1800	2800	5800	8800
weight incl. oil kg	9.3	11.5	15	22.5
maintenance set art no	150.113.254	150.113.254	150.113.254	150.113.254

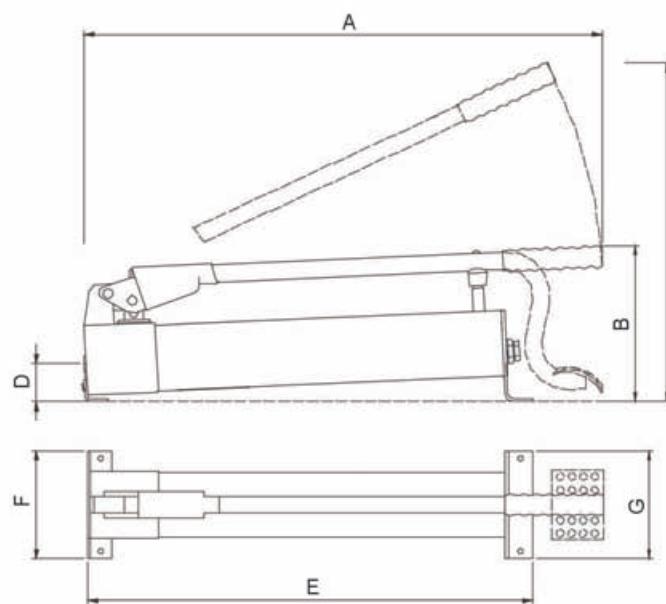
Hand / foot pumps - single- or double-acting (dimensions)

model	H/FTW 1800 B	H/FTW 2800 B	H/FTW 5800 B	H/FTW 8800 B
A mm	690	690	690	690
B mm	215	215	215	215
C mm	640	640	640	640
D mm	57	57	57	57
E mm	590	590	590	590
F mm	140	140	180	235
G mm	140	140	180	235



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Specifications / important properties

- standard suitable for single-acting tools and cylinders
- when double-acting valve (M 321) mounted, suitable for double-acting tools and cylinders
- compact and lightweight
- low maintenance
- suitable for large volumes
- low force required while pumping
 - first stage becomes entirely pressureless after switching to second stage
- automatic change over from first to second stage
- large oil output per stroke
- provided with dipstick
- connection: 3/8" NPT, female

Accessories

- double-acting valve M 321, art no 100.181.321
- base plate for single-acting pumps, art no 150.143.001 + 4x 150.543.001
- base plate for double-acting pumps, art no 100.143.150 + 4x 150.543.001

Control valves

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HTW 1800 B with M 321 valve



FTW 1800 B



HTW 2800 B



HTW 8800 B

**Compact electric pump** - single-acting

model	EHW 1650 RC
art no	100.551.001
working pressure bars/Mpa	720 / 72
output 1 st stage l/min	2
output 2 nd stage l/min	0.25
effective oil content l	1.65
motor	0.35 kW - 230 V - 50/60 Hz
max. power motor watt	350
charge remote control V	15
weight kg	11.6
dimensions (lxwxh) mm	416x190x222
maintenance set art no	100.553.116
option 1	Needle valve for controlled oil return. Consisting of needle valve (art no 100.181.130), connecting block (art no 100.183.340), nipple (art no 100.183.341) and plug (art no 100.581.105).
option 2	Pressure gauge for reading the pressure. Consisting of pressure gauge (art no 100.581.036), pressure gauge protection cover (art no 350.581.152), connecting block (art no 100.183.340), nipple (art no 100.183.341) and reducing bush (art no 100.581.128).
option 3	Needle valve and pressure gauge. Consisting of needle valve (art no 100.181.130), 2x connecting block (art no 100.183.340), nipple (art no 100.183.341), nipple (art no 100.581.101), pressure gauge (art no 100.581.036), pressure gauge protection cover (art no 350.581.152), reducing bush (art no 100.581.128) and plug (art no 100.581.105).

Specifications / important properties

- usable at any place because of compact construction
- lightweight
- for both horizontal and vertical use
- perfectly suitable for cable cutters and nut crackers
- suitable for single-acting tools and cylinders
- connection: 3/8" NPT, female
- standard with waterproof remote control with 2.3 m long electric cord

Hydraulic hoses

Manifolds and valve blocks

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EHW 1650 RC

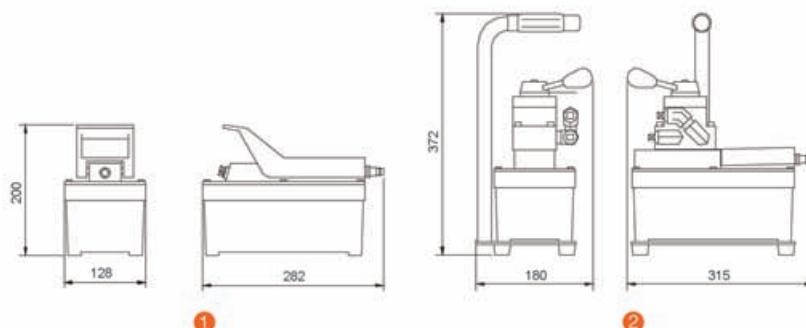


EHW 1650 RC and option 3


Compact air pumps - single- or double-acting

model	AHS 1400 FS	AHS 1400 D
art no	100.602.001	100.602.002
working pressure bars/Mpa	720 / 72	720 / 72
suitable for	single-acting tools	double-acting tools
air pressure bars	0 - 8.5	0 - 8.5
output unloaded l/min	0.96	0.96
output loaded l/min	0.41	0.41
air consumption unloaded l/min	700	700
air consumption loaded l/min	580	580
effective oil content l	1.4	1.4
weight kg	6.5	9.6
maintenance set art no	100.603.001	100.603.001

(1) AHS 1400 FS (2) AHS 1400 D


Specifications / important properties


- usable at any place because of compact construction
- lightweight
- safe
 - when the air pressure is lost, the oil pressure is maintained (AHS 1400 FS)
- spark-free
 - suitable for explosive rooms
- low-noise because of built-in silencer
- energy-saving
 - stops as soon as the maximum pressure has been reached
- AHS 1400 D unsuitable for lifting
- connection: 3/8" NPT, female

Hydraulic hoses

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AHS 1400 FS



AHS 1400 D


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5-step plan for selection of vari pumps**Step 1**

Select the power source

- air motor
- electric motor (230 V - 1 ph - 50 Hz)
- electric motor (400 V - 3 ph - 50 Hz)
- petrol engine

Step 2

Select pump type

- single-stage
- two-stage for higher operating speed
- twin, with 2 independent outlets

Step 3

Select the correct content for the oil tank

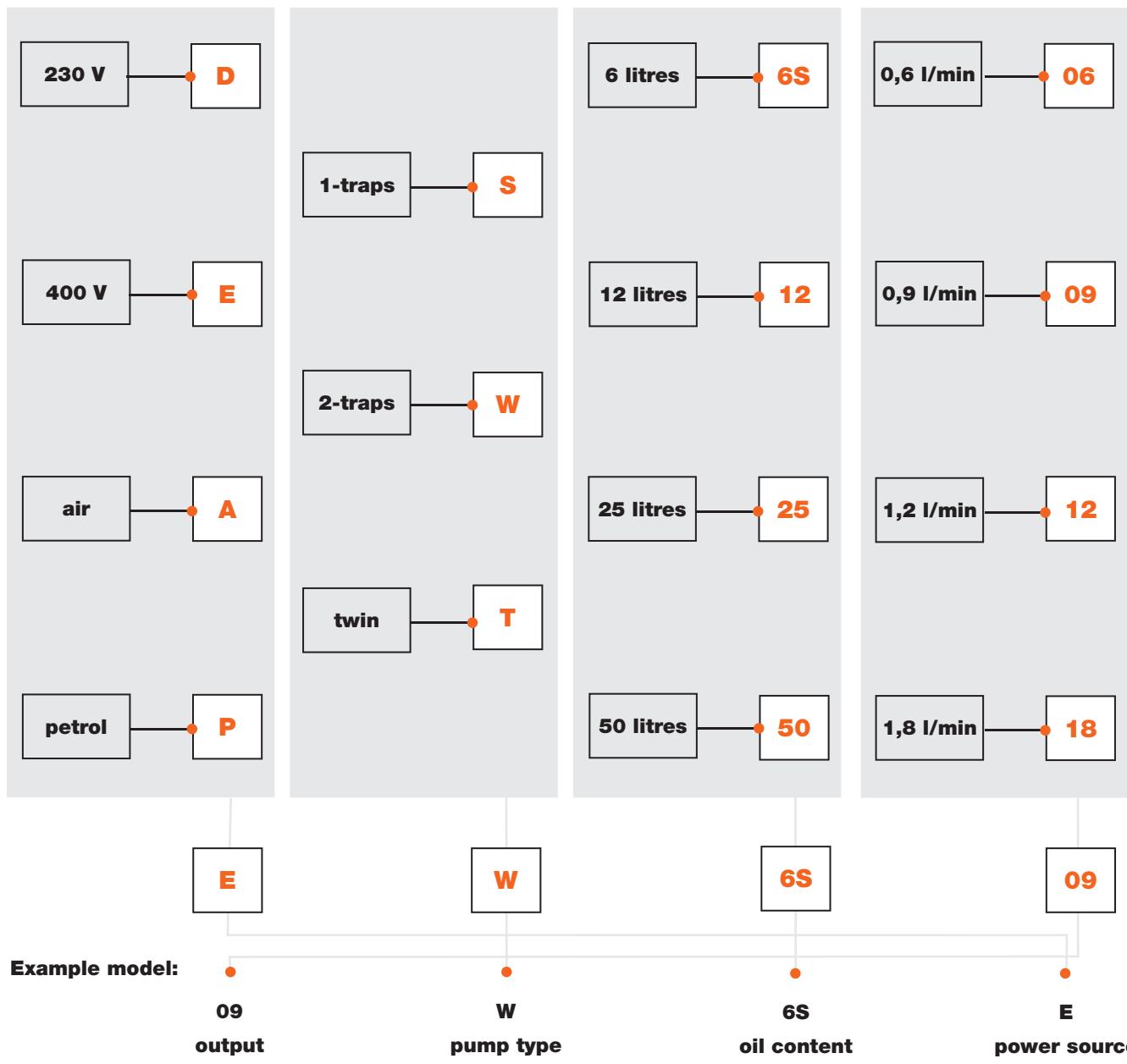
Step 4

Select the correct pump output in litres per minute



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5-step plan for selection of vari pumps

Step 5

Select the correct control valve (for twin pumps 2 valves required)

For single-acting tools:

- M 311 (hand operation)

For double-acting tools:

- M 322 (hand operation)
- M 323 (hand operation with deadman's handle)
- M 324 (electromagnetic operation) the following items must be additionally ordered with this remote control:
- remote control (art no 100.151.060)
For use in combination with EC-vari pumps.
Contact our sales department for additional information.
- M 325 (air-powered operation) the following items must be additionally ordered with this remote control:
- remote control (art no 100.161.004)

You now have a functional pump

Do not forget to specify the couplers and/or hoses

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M 322

M 323

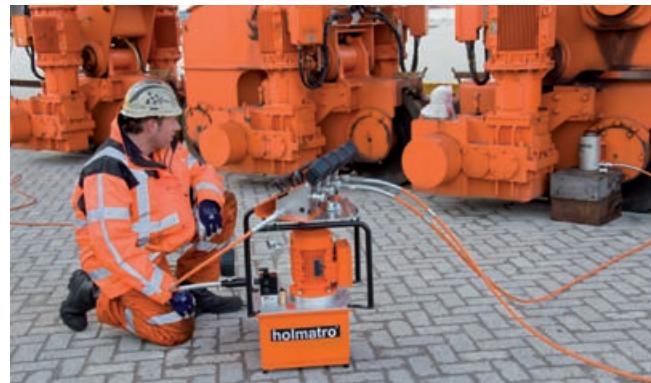


(electromagnetic)
 • electric control unit
 • remote control
 • protection frame

M 325

(air)
 • remote control

Example model: 09 W 6S E + M 323



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**Vari pumps - 230 V - 1-stage - 50 Hz - 1 ph**

model	06 S 6 SD	06 S 12 D	09 S 6 SD	09 S 12 D	09 S 25 D	09 S 50 D
art no	100.152.012	100.152.013	100.152.015	100.152.016	100.152.017	100.152.018
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 720 bars l/min	0.6	0.6	0.9	0.9	0.9	0.9
effective oil content l	6	12	6	12	25	50
power kW	1.1	1.1	1.1	1.1	1.1	1.1
speed rpm	1450	1450	1450	1450	1450	1450
weight kg	36	44	38	46	65	95
dimensions (lxwxh) mm	400x300x441	400x300x541	400x300x441	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063

model	12 S 6 SD	12 S 12 D	12 S 25 D	12 S 50 D
art no	100.152.020	100.152.021	100.152.022	100.152.023
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
output < 720 bars l/min	1.2	1.2	1.2	1.2
effective oil content l	6	12	25	50
power kW	1.5	1.5	1.5	1.5
speed rpm	2850	2850	2850	2850
weight kg	38	46	65	95
dimensions (lxwxh) mm	400x300x441	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.063	100.153.063	100.153.063	100.153.063

Specifications / important properties

- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request

- larger tank
- other voltages / frequencies
- EC model for use in combination with M 324 electric valve. Contact our sales department for additional information.

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Electro motor vari pump (6 l tank) with M 323 valve



Electro motor vari pump (25 l tank) with carrying handles set and M 323 valve



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Vari pumps - 230 V - 2-stage - 50 Hz - 1 ph


model	06 W 6 SD	06 W 12 D	09 W 6 SD	09 W 12 D	09 W 25 D	09 W 50 D
art no	100.152.025	100.152.026	100.152.028	100.152.029	100.152.030	100.152.031
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	1.6	1.6	2.5	2.5	2.5	2.5
output > 200 bars l/min	0.6	0.6	0.9	0.9	0.9	0.9
effective oil content l	6	12	6	12	25	50
power kW	1.1	1.1	1.1	1.1	1.1	1.1
speed rpm	1450	1450	1450	1450	1450	1450
weight kg	38	46	40	48	67	96
dimensions (lxwxh) mm	400x300x441	400x300x541	400x300x441	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052

model	12 W 6 SD	12 W 12 D	12 W 25 D	12 W 50 D
art no	100.152.033	100.152.034	100.152.035	100.152.036
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	3.2	3.2	3.2	3.2
output > 200 bars l/min	1.2	1.2	1.2	1.2
effective oil content l	6	12	25	50
power kW	1.5	1.5	1.5	1.5
speed rpm	2850	2850	2850	2850
weight kg	40	48	67	96
dimensions (lxwxh) mm	400x300x441	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052

Specifications / important properties


- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request


- larger tank
- other voltages / frequencies
- EC model for use in combination with M 324 electric valve. Contact our sales department for additional information.

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Electro motor vari pump (25 l tank) with M 323 valve



Electro motor vari pump (50 l tank) with M 323 valve



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Vari pumps - 400 V - 1-stage - 50 Hz - 3 ph



model	06 S 6 SE	06 S 12 E	09 S 6 SE	09 S 12 E	09 S 25 E	09 S 50 E	12 S 6 SE	12 S 12 E
art no	100.152.038	100.152.039	100.152.041	100.152.042	100.152.043	100.152.044	100.152.046	100.152.047
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
outlut < 720 bars l/min	0.6	0.6	0.9	0.9	0.9	0.9	1.2	1.2
effective oil content l	6	12	6	12	25	50	6	12
power kW	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
speed rpm	1450	1450	1450	1450	1450	1450	2850	2850
weight kg	33	41	36	44	63	93	35	43
dimensions (lxwxh) mm	400x300x441	400x300x541	400x300x441	400x300x541	500x380x541	500x380x676	400x300x441	400x300x541
maintenance set	art no	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063

model	12 S 25 E	12 S 50 E	18 S 12 E	18 S 25 E	18 S 50 E
art no	100.152.048	100.152.049	100.152.050	100.152.051	100.152.052
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
outlut < 720 bars l/min	1.2	1.2	1.8	1.8	1.8
effective oil content l	25	50	12	25	50
power kW	1.5	1.5	2.2	2.2	2.2
speed rpm	2850	2850	2850	2850	2850
weight kg	62	92	45	64	94
dimensions (lxwxh) mm	500x380x541	500x380x676	400x300x541	500x380x541	500x380x676
maintenance set	art no	100.153.063	100.153.063	100.153.063	100.153.063

Specifications / important properties



- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request



- larger tank
- other voltages / frequencies
- EC model for use in combination with M 324 electric valve. Contact our sales department for additional information.

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Electro motor vari pump (6 l tank) with M 323 valve



Electro motor vari pump (25 l tank) with carrying handle set and M 323 valve



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Vari pumps - 400 V - 2-stage - 50 Hz - 3 ph


model	06 W 6 SE	06 W 12 E	09 W 6 SE	09 W 12 E	09 W 25 E	09 W 50 E	12 W 6 SE	12 W 12 E
art no	100.152.054	100.152.055	100.152.057	100.152.058	100.152.059	100.152.060	100.152.062	100.152.063
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	1.6	1.6	2.5	2.5	2.5	2.5	3.2	3.2
output > 200 bars l/min	0.6	0.6	0.9	0.9	0.9	0.9	1.2	1.2
effective oil content l	6	12	6	12	25	50	6	12
power kW	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5
speed rpm	1450	1450	1450	1450	1450	1450	2850	2850
weight kg	35	43	38	46	65	95	37	45
dimensions (lxwxh) mm	400x300x441	400x300x541	400x300x441	400x300x541	500x380x541	500x380x676	400x300x441	400x300x541
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052

model	12 W 25 E	12 W 50 E	18 W 12 E	18 W 25 E	18 W 50 E
art no	100.152.064	100.152.065	100.152.066	100.152.067	100.152.068
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	3.2	3.2	5	5	5
output > 200 bars l/min	1.2	1.2	1.8	1.8	1.8
effective oil content l	25	50	12	25	50
power kW	1.5	1.5	2.2	2.2	2.2
speed rpm	2850	2850	2850	2850	2850
weight kg	64	94	47	66	96
dimensions (lxwxh) mm	500x380x541	500x380x676	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052

Specifications / important properties


- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request


- larger tank
- other voltages / frequencies
- EC model for use in combination with M 324 electric valve. Contact our sales department for additional information.

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Electro motor vari pump (25 l tank) with M 323 valve



Electro motor vari pump (50 l tank) with M 323 valve



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**Vari pumps - twin** - 400 V - 1-stage - 50 Hz - 3 ph

model	06 T 6 SE	06 T 12 E	09 T 12 E	09 T 25 E	09 T 50 E
art no	100.152.070	100.152.071	100.152.072	100.152.073	100.152.074
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 720 bars l/min	2 x 0.6	2 x 0.6	2 x 0.9	2 x 0.9	2 x 0.9
effective oil content l	6	12	12	25	50
power kW	1.5	1.5	2.2	2.2	2.2
speed rpm	1450	1450	1450	1450	1450
weight kg	40	47	52	71	100
dimensions (lxwxh) mm	400x300x441	400x300x541	400x300x541	500x380x541	500x380x676
maintenance set art no	100.153.033	100.153.033	100.153.033	100.153.033	100.153.033

Specifications / important properties

- pump with 2 separate outlets
- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request

- larger tank
- other voltages / frequencies
- EC model for use in combination with M 324 electric valve. Contact our sales department for additional information.

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Electro motor vari pump - twin (6 l tank) with 2x M 323 valve

Vari pumps - air - 1-stage - 8 bars

model	12 S 6 SA	12 S 12 A	12 S 25 A	12 S 50 A	18 S 12 A	18 S 25 A	18 S 50 A
art no	100.162.018	100.162.019	100.162.020	100.162.022	100.162.023	100.162.024	100.162.025
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 720 bars l/min	1.3	1.3	1.3	1.3	2	2	2
oli content effective l	6	12	25	50	12	25	50
power kW	3	3	3	3	3	3	3
air consumption m ³ /min	3.7	3.7	3.7	3.7	3.7	3.7	3.7
weight kg	33	41	60	89	42	62	91
dimensions (lxwxh) mm	400x300x348	400x300x448	500x380x448	500x380x583	400x300x448	500x380x448	500x380x583
maintenance set art no	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063

Vari pumps - air - 2-stage - 8 bars

model	12 W 6 SA	12 W 12 A	12 W 25 A	12 W 50 A	18 W 12 A	18 W 25 A	18 W 50 A
art no	100.162.027	100.162.028	100.162.029	100.162.030	100.162.032	100.162.033	100.162.034
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	3.6	3.6	3.6	3.6	5.7	5.7	5.7
output > 200 bars l/min	1.3	1.3	1.3	1.3	2	2	2
effective oil content l	6	12	25	50	12	25	50
power kW	3	3	3	3	3	3	3
air consumption m ³ /min	3.7	3.7	3.7	3.7	3.7	3.7	3.7
weight kg	35	43	62	91	44	63	93
dimensions (lxwxh) mm	400x300x348	400x300x448	500x380x448	500x380x583	400x300x448	500x380x448	500x380x583
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052

Specifications / important properties

- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request

- larger tank

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Air motor vari pump (6 l tank) with protection frame, cover plate and M 311 valve



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Vari pumps - petrol - 1-stage - 4 stroke

model	12 S 6 SP	12 S 12 P	12 S 25 P	12 S 50 P	18 S 12 P	18 S 25 P	18 S 50 P
art no	100.162.002	100.162.003	100.162.004	100.162.005	100.162.006	100.162.007	100.162.008
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 720 bars l/min	1.3	1.3	1.3	1.3	2	2	2
effective oil content l	6	12	25	50	12	25	50
power kW	3.1	3.1	3.1	3.1	3.1	3.1	3.1
weight kg	35	43	62	91	44	64	93
dimensions (lxwxh) mm	400x300x462	400x300x562	500x380x562	500x380x697	400x300x562	500x380x562	500x380x697
maintenance set art no	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063	100.153.063

Vari pumps - petrol - 2-stage - 4 stroke

model	12 W 6 SP	12 W 12 P	12 W 25 P	12 W 50 P	18 W 12 P	18 W 25 P	18 W 50 P
art no	100.162.010	100.162.011	100.162.012	100.162.013	100.162.014	100.162.015	100.162.016
working pressure bars/Mpa	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72	720 / 72
output < 200 bars l/min	3.6	3.6	3.6	3.6	5.7	5.7	5.7
output > 200 bars l/min	1.3	1.3	1.3	1.3	2	2	2
effective oil content l	6	12	25	50	12	25	50
power kW	3.1	3.1	3.1	3.1	3.1	3.1	3.1
weight	37	45	64	93	46	65	95
dimensions (lxwxh) mm	400x300x462	400x300x562	500x380x562	500x380x697	400x300x562	500x380x562	500x380x697
maintenance set art no	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052	100.153.052

Specifications / important properties

- high operating speed
- safe
 - in case of a power failure, the oil pressure is maintained
 - protected against pressure drop by pressure-controlled non-return valve
- excluding single-acting or double-acting control valve
- various accessories available

Available on request

- larger tank

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Petrol motor vari pump (6 l tank) with M 322 valve



Petrol motor vari pump (12 l tank) with M 322 valve



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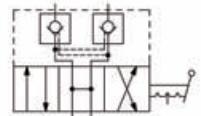
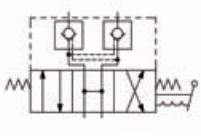
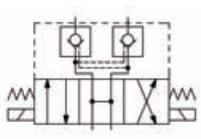
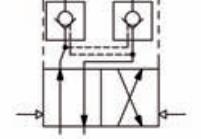
Control valves - hand pumps - double-acting


image	hydraulic diagram	description	model	art no
		<p>control valve</p> <ul style="list-style-type: none"> • suitable for double acting tools • handle stops in each position • with pressure-controlled non-return valves for securing the load • 3-position 4-way valve • connection: 3/8" NPT female (2x) <p>maintenance set, art no 100.183.095</p>	M 321	100.181.321

Control valves - vari pumps - single-acting


image	hydraulic diagram	description	model	art no
		<p>control valve</p> <ul style="list-style-type: none"> • suitable for single acting tools • handle stops in each position • 3-position 3-way valve • not in combination with a vari pump model (name) starting with 18 W • connection: 3/8" NPT female (2x) <p>maintenance set, art no 100.183.094</p>	M 311	100.181.311

Control valves - vari pumps - double-acting


image	hydraulic diagram	description	model	art no
		<p>control valve</p> <ul style="list-style-type: none"> • suitable for double acting tools • handle stops in each position • with pressure-controlled non-return valves for securing the load • 3-position 4-way valve • connection: 3/8" NPT female (2x) <p>maintenance set, art no 100.183.095</p>	M 322	100.181.322
		<p>control valve</p> <ul style="list-style-type: none"> • suitable for double acting tools • handle with dead man's function, automatically goes to the 0-position • with pressure-controlled non-return valves for securing the load • 3-position 4-way valve • connection: 3/8" NPT female (2x) <p>maintenance set, art no 100.183.096</p>	M 323	100.181.323
		<p>control valve</p> <ul style="list-style-type: none"> • only suitable in combination with EC-version vari pumps. Contact our sales department for additional information. • suitable for double-acting tools • valve with electromagnetic control (24 VDC) • with pressure-controlled non-return valves for securing the load • 3-position 4-way valve • connection: 3/8" NPT female (2x) • remote control <p>remote control, art no 100.151.060</p> <ul style="list-style-type: none"> • 4 buttons: on, off, lower and lift 	M 324	100.181.324
		<p>control valve</p> <ul style="list-style-type: none"> • suitable for double-acting tools • valve with air control • only suitable in combination with air-powered vari pumps • with pressure-controlled non-return valves for securing the load • 2-position 4-way valve • connection: 3/8" NPT female (2x) • remote controlled <p>remote control, art no 100.161.004</p> <ul style="list-style-type: none"> • 2 buttons: lift and lower 	M 325	100.181.325



**Accessories**

image	description	model	art no
A small metal block with mounting holes and a handle.	connecting block • for mounting couplers or hoses • to be mounted on the pump when using connecting plate M 302 instead of control valve • provided with pressure release valve • connection: 1/4" BSP female (2x), 3/8" NPT female (1x) • mounting of pressure gauge A 500 possible using nipple 100.581.104 • mounting of pressure gauge A 150 possible using nipple 100.581.128	M 301 B	100.182.088
A rectangular metal plate with mounting holes and a handle.	connecting plate • for remote or separately from the pump placing of the valves M 311, M 322, M 323, M 324 or M 325 (if necessary combined with pressure control valve M 303) • connection: 1/4" BSP female	M 302	100.181.302
A small metal valve unit with a handle.	pressure control valve (shown in combination with M 322) • for mounting unto the pump or unto the connecting plate M 302 (below the connecting block M 301 B or below the valves M 311, M 322, M 323, M 324 or M 325) • pressure adjustable between 0 and 720 bars	M 303	100.181.303
An orange protective frame around a pump unit.	protection frame for 6, 12, 25 and 50 litre pumps cover plate for protection frame	-	100.151.056 100.151.040
An orange carrying handle set for a pump.	carrying handle set for 6 and 12 litre pumps carrying handle set for 25 litre pumps	-	100.151.053 100.151.054
A set of four wheels for a pump unit.	set of wheels for 25 and 50 litre pumps	-	100.151.039
A large orange carriage frame with wheels for a pump unit.	carriage frame for 6, 12, 25 and 50 litre pumps	-	100.151.038
A cylindrical silencer unit with mounting hardware.	silencer for air vari pumps	HSR 0.5 U	100.182.015
An orange air treatment unit with two tanks and a handle.	air treatment set for air vari pump (separately delivered)	A 181 U	100.582.181
	air treatment set for air vari pump (to be mounted)	-	100.161.003

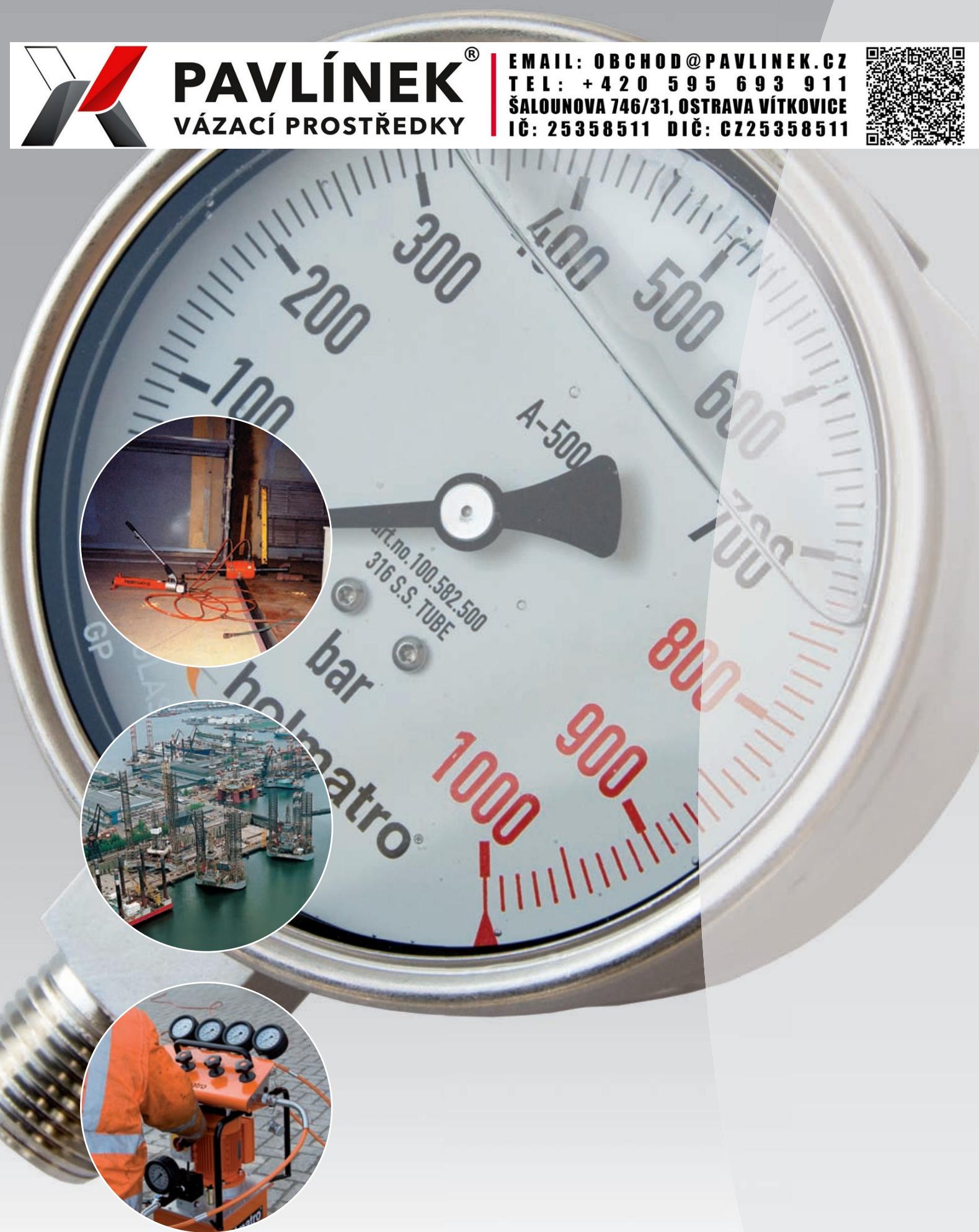


System components



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Single hoses - 720 bars 

model	H 1 SO	H 2 SO	H 3 SO	H 4 SO	H 5 SO	H 6 SO	H 8 SO	H 10 SO	H 15 SO	H 20 SO
art no	100.571.101	100.571.102	100.571.103	100.571.104	100.571.105	100.571.106	100.571.108	100.571.110	100.571.115	100.571.120
length m	1	2	3	4	5	6	8	10	15	20

Standard hoses - 720 bars 

model	H 1 SOU	H 2 SOU	H 3 SOU	H 4 SOU	H 5 SOU	H 6 SOU	H 8 SOU	H 10 SOU	H 15 SOU	H 20 SOU
art no	100.572.101	100.572.102	100.572.103	100.572.104	100.572.105	100.572.106	100.572.108	100.572.110	100.572.115	100.572.120
length m	1	2	3	4	5	6	8	10	15	20

Extension hoses - 720 bars 

model	VL 1 SOU	VL 2 SOU	VL 5 SOU	VL 10 SOU	VL 15 SOU	VL 20 SOU
art no	100.572.301	100.572.302	100.572.305	100.572.310	100.572.315	100.572.320
length m	1	2	5	10	15	20

Specifications / important properties 

- single hoses with:
 - 3/8" NPT male screw thread on both sides
 - anti-kink springs on both sides
 - 4:1 safety ratio
 - colour: orange
- standard hoses provided with:
 - idem single hoses
 - coupler male, A 119 on 1 side
- extension hoses with:
 - idem single hoses
 - coupler male, A 119 on 1 side
 - coupler female, A 118 on the other side

Available on request 

- different lengths
- other colour



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(1) Single hose (2) Standard hose (3) Extension hose




Standard couplers - 720 bars

image	description	model	art no
	High Flow coupler, female, including steel dust cap • connection: 3/8" NPT, male • fits: A 119	A 118	100.181.118
	High Flow coupler, male, including steel dust cap • connection: 3/8" NPT, female • fits: A 118, A 134 N and A 418	A 119	100.181.119
	High Flow coupler, female, like A 118, with built-in pressure relief valve • adjusted to ca. 750 bars • fits: A 119	A 418	100.181.418
	High Flow coupler, female, like A 118, with built-in non-return valve • suitable for hose rupture security • not to be used with double-acting systems • fits: A 119	A 134 N	100.181.434
	loose steel dust cap • with fixing thread • fits: A 118	A 118 SK	100.181.828
	loose steel dust cap • with fixing thread • fits: A 119	A 119 SK	100.181.829
	relief valve • for reducing any remnant pressure • suitable for: A 118	-	100.181.840
	relief valve • for reducing any remnant pressure • suitable for A 119	-	100.181.841



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Pressure gauges - 720 bars

image	description	model	art no
	universal pressure gauge • 0 - 720 bars • housing Ø 100 mm • connection: 1/2" NPT male	A 500	100.582.500
	rubber protection cover • suitable for Ø 100 mm pressure gauges	-	350.581.160
	pressure gauge plug-in set • connection: couplers A 118 - A 119	A 111 U	100.582.111
	pressure gauge • 0 - 720 bars • housing Ø 60 mm • connection: 1/4" NPT male	A 150	100.581.036
	rubber protection cover • suitable for Ø 60 mm pressure gauges	-	350.581.152
	pressure gauge digital • 0 - 720 bars • peak pressure memory • connection: 1/4" BSP male	-	150.581.091

Pressure gauges with scale division in ton - 720 bars



pressure gauge	pressure gauge	1 st scale from - to	1 st scale division per mark	2 nd scale from - to	2 nd scale division per mark	3 rd scale from - to	3 rd scale division per mark	4 th scale from - to	4 th scale division per mark
model	art no	t	kg	t	kg	t	kg	t	kg
A 501	100.582.501	0 - 5	100	0 - 11	200	0 - 21	500	-	-
A 502	100.582.502	0 - 25	500	0 - 33	500	0 - 51	1000	-	-
A 503	100.582.503	0 - 52	1000	0 - 77	1000	-	-	-	-
A 504	100.582.504	0 - 105	2000	0 - 160	2000	-	-	-	-
A 505	100.582.505	0 - 210	5000	0 - 305	5000	-	-	-	-
A 506	100.582.506	0 - 509	10000	0 - 382	10000	-	-	-	-
A 507	100.582.507	0 - 6	100	0 - 13	200	0 - 23	500	-	-
A 508	100.582.508	0 - 30	500	0 - 47	1000	0 - 63	1000	0 - 113	2000
A 509	100.582.509	0 - 63	1000	0 - 104	2000	-	-	-	-
A 510	100.582.510	0 - 12	200	0 - 31	500	0 - 63	2000	0 - 98	2000



Pressure gauge adaptors - 720 bars


image	description	model	art no
	pressure gauge connecting block for hand and vari pumps <ul style="list-style-type: none"> • suitable for single-acting hand pumps and single-acting control valve M 311 • provided with: 1 x 3/8" NPT female, 1 x 3/8" NPT male and 1/2" NPT female for pressure gauge • pressure gauge can be placed in an angle of 45° using elbow art no 100.581.240 	A 108	100.181.108
	pressure gauge connecting block for H/FTW *800 pumps <ul style="list-style-type: none"> • suitable for double-acting control valve M 321 • supplies pressure to port A or B, dependent on mounting • provided with: 1 x 1/2" NPT female 	M 306	100.182.306
	pressure gauge connecting block for H/FTW *800 pumps <ul style="list-style-type: none"> • suitable for double-acting control valve M 321 • supplies pressure to port A or B, dependent on which is highest • provided with: 1 x 1/2" NPT female 	M 307	100.182.307
	pressure gauge connecting block for vari pumps <ul style="list-style-type: none"> • suitable for double-acting control valves M 322, M 323, M 324 and M 325 • supplies pressure to port A or B, dependent on which is highest • provided with: 1 x 1/2" NPT female 	M 308	100.182.308

Specifications / important properties


- pressure gauges:
 - pointer damped with glycerine
 - stainless steel
 - protection cover available for all models (except digital pressure gauge)



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A 108, A 500 and hose mounted on pump

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Pump, M 321, M 307 and A 500 (separate: M 306 and A 500)

Manifolds - single-acting - 720 bars

model	SM 2	SM 3	SM 4	SM 5	SM 6	SM 7	SM 8	SM 9	SM 10
art no	100.182.312	100.182.313	100.182.314	100.182.315	100.182.316	100.182.317	100.182.318	100.182.319	100.182.320
outlet ports	2	3	4	5	6	7	8	9	10
A mm	235	360	485	610	730	860	985	1110	1235

Manifolds - double-acting - 720 bars

model	DM 2	DM 3	DM 4	DM 5	DM 6	DM 7	DM 8	DM 9	DM 10
art no	100.182.332	100.182.333	100.182.334	100.182.335	100.182.336	100.182.337	100.182.338	100.182.339	100.182.340
outlet ports	2	3	4	5	6	7	8	9	10
A mm	235	360	485	610	730	860	985	1110	1235

FlowPanel™ Valve blocks - single-acting - 720 bars

model	HMS 2 A	HMS 2 B	HMS 2 C	HMS 4 A	HMS 4 B	HMS 4 C	HMS 6 A	HMS 6 B	HMS 6 C
art no	100.172.048	100.172.049	100.172.050	100.172.045	100.172.046	100.172.047	100.172.052	100.172.053	100.172.054
outlet ports	2	2	2	4	4	4	6	6	6
A mm	238	238	238	480	480	480	722	722	722

FlowPanel™ Valve blocks - double-acting - 720 bars

model	HMD 2 A	HMD 2 B	HMD 2 C	HMD 4 A	HMD 4 B	HMD 4 C	HMD 6 A	HMD 6 B	HMD 6 C
art no	100.172.042	100.172.043	100.172.044	100.172.039	100.172.040	100.172.041	100.172.055	100.172.053	100.172.057
outlet ports	2	2	2	4	4	4	6	6	6
couplers	-	+	+	-	+	+	-	+	+
pressure gauges	-	-	+	-	-	+	-	-	+
A mm	238	238	238	480	480	480	722	722	722
weight kg	7.2	8.1	10.0	14.2	15.6	19.7	21.0	23.0	29.1

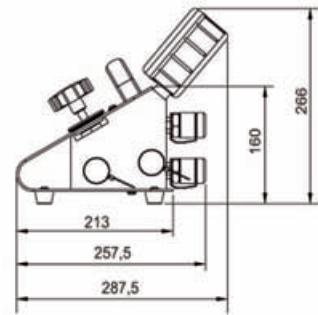
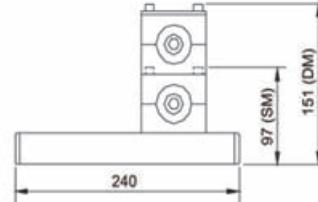
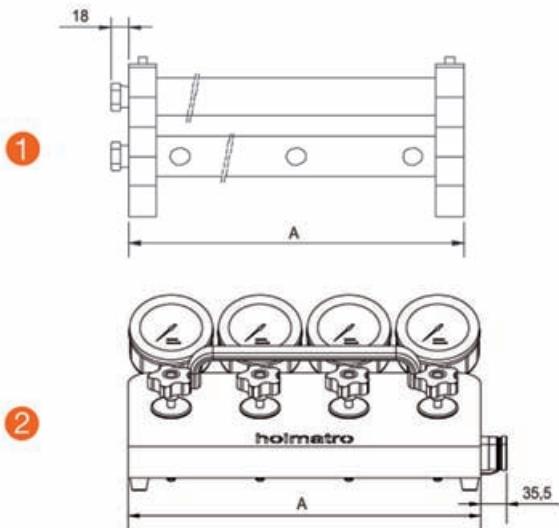


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(1) SM / DM (2) HMS / HMD



Specifications / important properties

- excellent control over your load
 - extremely accurate regulation of oil flow under high pressure
- safe
 - stable construction
- ergonomic
 - regulator valves with comfortable rotary knobs
 - manometers that are easy to read
 - installation on Varipomp is possible for comfortable working position
 - carry-handle positioned above centre of gravity
- for single or double acting systems

Available on request

- can be mounted on the protection frame of the vari pumps

Hydraulic hoses
Couplers
Pressure gauges

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HMS 2 B



HMD 4 C





Valves - 720 bars

image	hydraulic scheme	description	model	art no
		needle valve • for more accurate control of the oil flow, also under maximum pressure • connection: 3/8" NPT female (2x)	A 109 N	100.581.609
		ball valve • very suitable for quick shut-off valve (open-close) • can be operated under maximum pressure • connection: 3/8" NPT female (2x)	A 195	100.581.200
		needle valve • for accurate control of the oil flow, also under maximum pressure • connection: 3/8" NPT male and 3/8" NPT female	A 130	100.181.130
		breaking safety (load security) valve • protects against sudden pressure drop in the supply pipe, for example in case of hose rupture • to be mounted between pump and cylinder as close to the cylinder as possible • provided with pressure relief valve, set at 830 bars • while pumping: valve closed, safety valve active • for relief: open valve, safety valve not active • connection: 3/8" NPT female and 3/8" NPT male	A 110	100.181.110
		High Flow coupler, female, like A 118, with built-in non-return valve • suitable for hose rupture security • not to be used with double-acting systems • fits: A 119	A 134 N	100.181.434
		non-return valve • spring-loaded • connection: 3/8" NPT male (2x)	A 209	100.581.209
		pressure relief valve • set to 750 bars • connection: 1x 3/8" NPT female and 1x 3/8" NPT male	A 135	100.181.135



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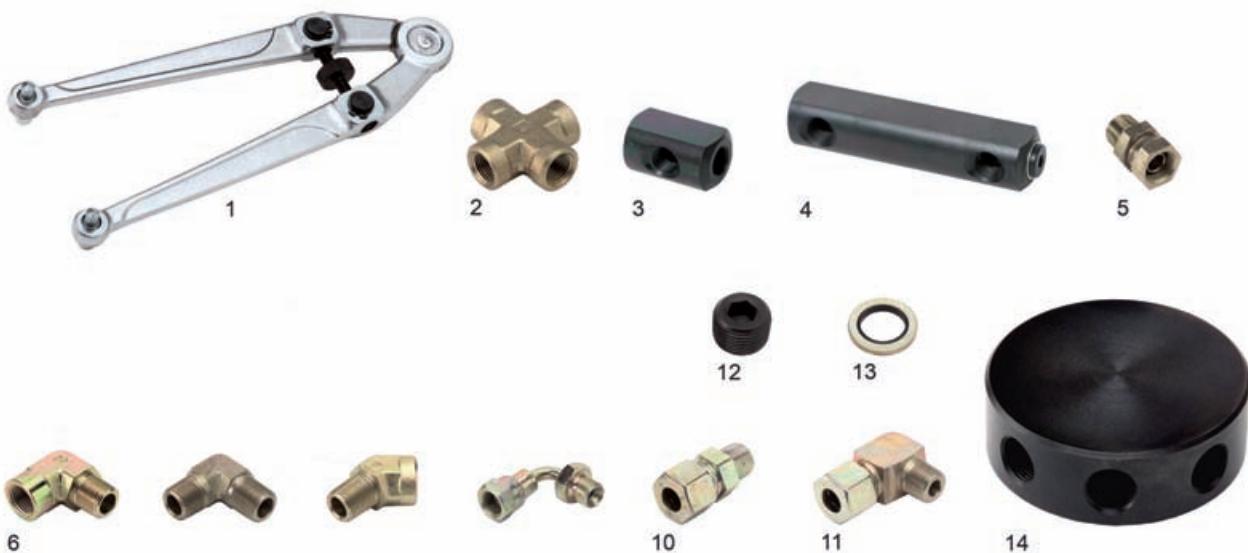


Accessories hydraulics - 720 bars

no	description	art no
	45° elbow with 1x 1/2" NPT (T) female and 1x 1/2" NPT (T) male	100.581.240
1	adjustable pin key, complete with 4 pairs of exchangeable pins	100.581.132
2	cross piece with 4x 3/8" NPT (T) female	100.581.139
3	T-piece with 3x 3/8" NPT (T) female	100.001.010
4	T-piece with 3x 3/8" NPT (V) male	100.182.104
5	swivel connector with 1x 3/8" NPT (T) male and 1x 3/8" NPT (C) female	100.581.115
6	90° elbow with 1x 3/8" NPT (T) female and 1x 3/8" NPT (T) male	100.581.113
7	90° elbow with 2x 3/8" NPT (T) male	100.581.213
8	45° elbow with 1x 3/8" NPT (T) female and 1x 3/8" NPT (T) male	100.581.114
9	90° bend with 1x 1/4" BSP (C) female swivel nut and 1x 1/4" BSP (V) male	150.581.219
10	straight tube coupling for 12 mm tube with 3/8" NPT (T) male	100.581.136
11	90° tube coupling for 12 mm tube with 3/8" NPT (T) male	100.581.137
12	plug with 3/8" NPT (T)	100.581.105
13	sealing ring for M12 (V)	190.593.275
	sealing ring for 1/4" BSP (V)	150.581.230
	sealing ring for M14 (V)	190.593.075
	sealing ring for M18 (V)	100.581.158
14	manifold, model A 125, with 5 interconnected ports with 3/8" NPT female	100.181.125

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Assembly materials - 720 bars

image	type	thread A	thread B	art no
	connection socket	1/4" NPT (T) 1/4" NPT (T) 1/4" BSP (V) 3/8" NPT (T) 3/8" NPT (T)	1/4" NPT (T) 1/4" BSP (V) M18x1.5 (V) 3/8" NPT (T) M18x1.5 (V)	100.581.238 150.581.228 100.181.227 100.581.102 100.181.228
	reducing bushing	1/4" NPT (T) 3/8" NPT (T) 3/8" NPT (T) 1/8" BSP (V)	3/8" NPT (T) 1/2" NPT (T) 3/4" NPT (T) 1/2" BSP (V)	100.581.128 100.581.103 100.581.133 150.581.085
	nipple	1/8" NPT (V) 1/4" NPT (T) 1/4" NPT (T) 1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V/C) 1/4" BSP (V) 3/8" NPT (T) 3/8" NPT (T) 1/2" BSP (V) 1/4" BSP (V) 1/4" NPT (T) 3/8" NPT (T) 1/2" BSP (V) 1/4" NPT (T)	1/4" BSP (V) 1/4" BSP (V) M14x1.5 (V) M12x1.75 (V) M14x1.5 (V/C) M14x2 (V) 1/4" BSP (V/C) 3/8" NPT (T) 3/8" NPT (T) M14x2 (V) 1/2" NPT (T) M10x1 (V) 3/8" NPT (T) 3/8" NPT (T) 3/8" BSP 3/8" NPT (V) 1/4" NPT (T)	110.013.004 150.581.227 100.581.226 110.013.044 100.581.211 100.181.156 150.581.216 150.581.218 100.581.101 100.181.151 150.581.088 110.013.005 150.581.244 100.581.233 150.581.087 100.581.239
	connector	1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V) 3/8" NPT (T) 3/8" NPT (T) 3/8" NPT (T) 1/2" NPT (T) M14x1.5 (V) M14x1.5 (V) M18x1.5 (V) M18x1.5 (V) 3/8" NPT (T) 1/4" BSP (V)	1/4" NPT (T) 3/8" BSP (C) M14 x 2 (V) 1/4" BSP (V) 1/4" NPT (T) M14 x 2 (V) 3/8" NPT (T) 3/8" NPT (T) 1/4" BSP (V) M10x1 (V) 3/8" NPT (T)	100.181.223 100.581.235 100.181.159 150.581.217 100.581.107 100.181.153 100.581.104 100.181.129 150.581.058 100.181.154 100.181.157 100.181.047 150.000.398
		T = Teflon seal	V = flat seal	C = cone seal



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Oils

image	description	art no
	hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, bottle 1 litre hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, bottle 5 litres hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, drum 60 litres properties: <ul style="list-style-type: none"> • fully mineral oil • biodegradable (OECD 301F) • optimum lubricating properties • excellent protection against wear and corrosion • up to 3x longer service life than the leading hydraulic oils • no deposit and contamination because no aromatics and hydrocarbons • recommended for ambient temperature > -10 °C 	180.000.857 180.000.815 130.103.025
	hydraulic oil ECO Power ISO VG 15, DIN 51524.3 HVLP, bottle 1 litres hydraulic oil ECO Power ISO VG 15, DIN 51524.3 HVLP, bottle 5 litres properties: <ul style="list-style-type: none"> • fully mineral oil • biodegradable (OECD 301F) • optimum lubricating properties • excellent protection against wear and corrosion • up to 3x longer service life than the leading hydraulic oils • no deposit and contamination because no aromatics and hydrocarbons • recommended for ambient temperature < -10 °C 	100.581.051 100.581.055
	motor oil 10 W 30, API SJ/CH-4, bottle 0.6 litre properties: <ul style="list-style-type: none"> • very good detergent and dispersant • optimum protection against wear, corrosion and foam • high and stable viscosity • low sulphate ash content 	150.581.103



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Lubricants

image	description	art no
	Molykote® grease paste • for mounting and lapping of metal parts • tube 100 g	100.581.081
	high-quality Molykote® grease • for metal/metal combinations at slow to fast movements with medium to heavy load • cartridge 400 g	100.581.082
	brake cleaner (degreasant) Motip® • for cleaning and pre-treatment of surfaces • spray can 500 ml	170.000.252
	Teflon lubricating oil Sir John® • high-quality lubricant and maintenance oil • spray can 400 ml	150.581.095
	anti-friction coating Bel Ray® • dry spray coating for protection under dusty, dirty and abrasive conditions • spray can 400 ml	150.581.093



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Tensioning hydraulics



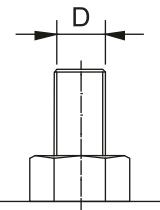
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6-step plan for selection of stud tension cylinders**Step 1**

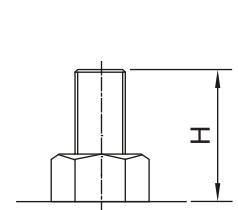
cylinder selection by bolt diameter



stud tension cylinder	bolt diameter - through to	
	mm	inch
HHX 14	M20 - M22	3/4 - 7/8
HHX 22	M24 - M28	1 - 1 1/8
HHX 35	M30 - M34	1 1/4 - 1 3/8
HTX 50	M36 - M40	1 1/2 - 1 5/8
HTX 70	M42 - M46	1 3/4 - 1 7/8
HTX 100	M48 - M56	2 - 2 1/4
HTX 150	M60 - M68	2 1/2 - 2 3/4
HTX 180	M72 - M76	2 3/4 - 3
HTX 220	M76 - M80	3 - 3 1/4
HTX 260	M80 - M85	3 1/4 - 3 1/2

Step 2

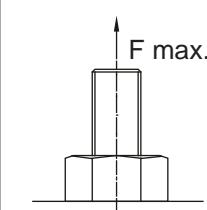
check height of threaded rod



minimum height of threaded rod above flange
mm
28 + D
30 + D
35 + D
55 + D
65 + D
70 + D
90 + D
90 + D
85 + D
105 + D

Step 3

check stud tension force



max. pulling force
ton
14
22
35
50
70
100
150
180
220
260

kN

140

221

352

501

702

999

1500

1803

2174

2601

Step 4

check cylinder dimensions

see table stud tension cylinders, pages 142 and 143

Stud tension cylinder system

Placing cylinder and pulling nut over nut socket and bolt.



The tommy bar makes the nut socket (and therefore the nut) turn very easily.



A complete set-up in which a cylinder has been placed on every bolt (so-called 100% occupation).

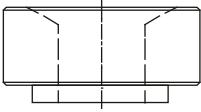

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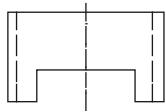
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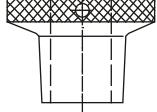

6-step plan for selection of stud tension cylinders

Step 5

assembly of a stud tension cylinder

	
stud tension cylinder	
model	art no
HHX 14	110.011.101
HHX 22	110.011.002
HHX 35	110.011.012
HTX 50	110.011.121
HTX 70	110.011.131
HTX 100	110.011.141
HTX 150	110.011.151
HTX 180	110.011.161
HTX 220	110.011.171
HTX 260	110.011.181

	
cylinder bridge	
model	art no
-	-
-	-
-	-
BR 50	110.181.151
BR 70	110.181.152
BR 100	110.181.153
BR 150	110.181.154
BR 180	110.181.155
BR 220	110.181.156
BR 260	110.181.157


pulling nut*
model
PN 14 + THREAD
PN 22 + THREAD
PN 35 + THREAD
PN 50 + SLW
PN 70 + SLW
PN 100 + SLW
PN 150 + SLW
PN 180 + SLW
PN 220 + SLW
PN 260 + SLW


nut socket**
model
NS 14 + SLW
NS 22 + SLW
NS 35 + SLW
NS 50 + SLW
NS 70 + SLW
NS 100 + SLW
NS 150 + SLW
NS 180 + SLW
NS 220 + SLW
NS 260 + SLW

	
tommy bar	
art no	ø mm
110.181.090	6
110.181.091	8
110.181.091	8
110.181.091	8
110.181.092	10
110.181.092	10
110.181.093	12
110.181.093	12
110.181.093	12
110.181.094	16

* THREAD = thread type x pitch (e.g. M36 x 4)

** SLW = key size of nut (e.g. SLW 50)

Step 6

additional items for connection or operation, based on the n-number of cylinders that are used in a coupled situation

no	description	mention with order
n	connection pieces	connection pieces A 240 U, art no 110.582.240
n-1	hoses between the cylinders	e.g. hose, model X 1.2 MU, art no 110.572.012 (for further specifications see section 'Pumps and hoses', page 145).
2	hoses to pump and pressure gauge	e.g. hose, model X 3 MU, art no 110.572.030 (for further specifications see section 'Pumps and hoses', page 145).
1	pump (hand or foot operated)	e.g. hand pump, model HTWX 1800 BU, art no 110.142.003 (for further specifications see section 'Pumps and hoses', page 145).
1	pressure gauge	pressure gauge A 148 U, art no 110.582.348 (for further specifications see section 'Couplers and accessories', page 146).

Recommendation with respect to the number of cylinders to be used : the best result is achieved with a 100% occupation. This means that every threaded rod is fitted with a stud tension cylinder and is tensioned simultaneously. A lower occupation level is possible. However, you must take account of the fact that the force is increased evenly and in steps along the contour of the object to be tensioned.


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Stud tension cylinders - including cylinder bridge

model	HHX 14	HHX 22	HHX 35
art no	110.011.101	110.011.002	110.011.012
working pressure bars/Mpa	1000 / 100	1000 / 100	1000 / 100
capacity kN/t	140 / 14.3	221 / 22.5	352 / 35.9
stroke length mm	8	8	8
oil content cm ³	11.2	17.7	28.2
weight kg	1.4	2.1	2.5
incl. coupler	A 239 male	A 239 male	A 239 male
maintenance set art no	110.013.081	110.013.001	110.013.011

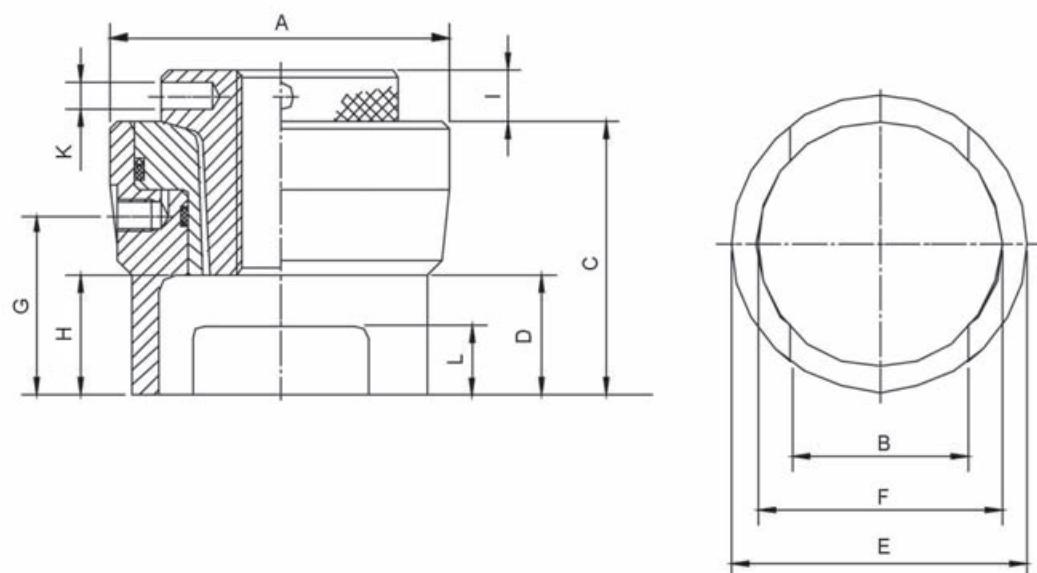
Stud tension cylinders - including cylinder bridge (dimensions)

model	HHX 14	HHX 22	HHX 35
A mm	70	90	100
B mm	36	47	52
C mm	85	80	80
D mm	28	30	35
E mm	56	76	87
F mm	47	60	72
G mm	58	53	52.5
H mm	28	30	35
K mm	6	8	8
L mm	20	20	20

Accessories

model	HHX 14	HHX 22	HHX 35
pulling nut model	PN 14	PN 22	PN 35
nut socket model	NS 14	NS 22	NS 35
tommy bar art no	110.181.090	110.181.091	110.181.091

Stud tension cylinders including cylinder bridge




Stud tension cylinders - excluding cylinder bridge

model	HTX 50	HTX 70	HTX 100	HTX 150	HTX 180	HTX 220	HTX 260
art no	110.011.121	110.011.131	110.011.141	110.011.151	110.011.161	110.011.171	110.011.181
working pressure bars/Mpa	1000 / 100	1000 / 100	1000 / 100	1000 / 100	1000 / 100	1000 / 100	1000 / 100
capacity kN/t	501 / 51.1	702 / 71.6	999 / 101.8	1500 / 152.9	1803 / 183.8	2174 / 221.6	2601 / 265.1
stroke length mm	12	12	12	12	12	12	12
oil content cm ³	60.2	84.2	120	180	216	261	312
weight kg	3.4	4.6	6.8	10.9	14.1	20.4	28.0
incl. coupler	A 239 male	A 239 male	A 239 male	A 239 male	A 239 male	A 239 male	A 239 male
maintenance set art no	110.013.021	110.013.031	110.013.041	110.013.051	110.013.061	110.013.091	110.013.071

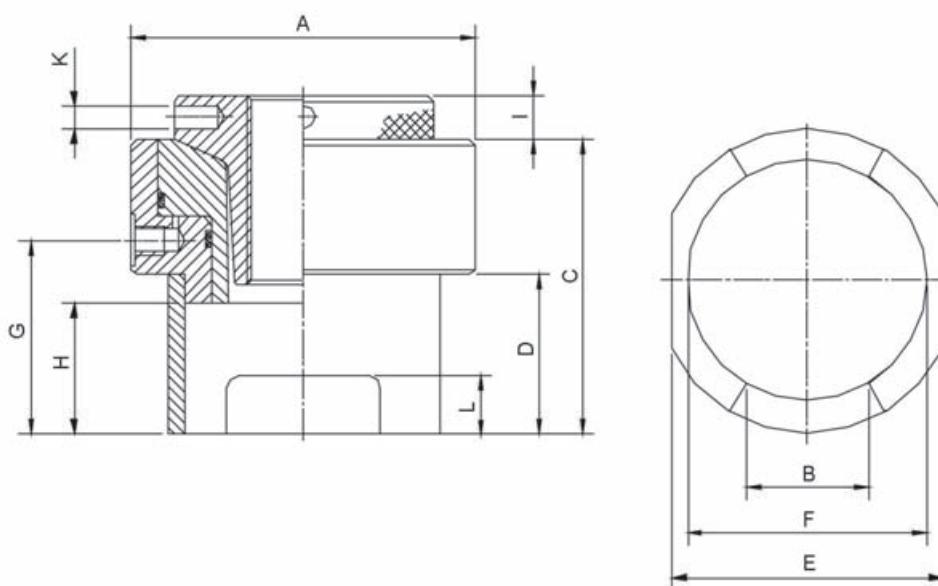

Stud tension cylinders - exclusive cylinder bridge (dimensions)

model	HTX 50	HTX 70	HTX 100	HTX 150	HTX 180	HTX 220	HTX 260
A mm	119	139	166	203	220	248	270
B mm	60	56	65	79	85	92	99
C mm	102	107	120	139	150	165	195
D mm	55	60	70	85	90	95	115
E mm	96	111	125	154	174	186	228
F mm	83	94	112	136	148	156	170
G mm	67	72	82	98	103	110	128
H mm	45	50	60	75	80	85	105
K mm	8	10	10	12	12	12	16
L mm	20	25	30	35	40	40	40


Accessoires

model	HTX 50	HTX 70	HTX 100	HTX 150	HTX 180	HTX 220	HTX 260
cylinder bridge art no	110.181.151	110.181.152	110.181.153	110.181.154	110.181.155	110.181.156	110.181.157
pulling nut model	PN 50	PN 70	PN 100	PN 150	PN 180	PN 220	PN 260
nut socket model	NS 50	NS 70	NS 100	NS 150	NS 180	NS 220	NS 260
tommy bar art no	110.181.091	110.181.092	110.181.092	110.181.093	110.181.093	110.181.093	110.181.094

Stud tension cylinders excluding cylinder bridge


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Specifications / important properties 

- HHX-cylinders standard provided with cylinder seat
- HHX-cylinders standard not provided with cylinder seat, see 'Accessories' on previous pages
- compact and lightweight
- usable in all positions
- high-quality and refined chrome nickel steel
- automatically locking quick coupler
- pulling nut is manufactured in conformity with customer specifications based on exact thread and bolt dimensions
- nut socket is manufactured in conformity with customer specifications based on exact key size of the nut
- advantages compared with traditional stud tensioning methods
 - the effects of friction are negligible; higher accuracy when tightening the bolt
 - time-saving; several cylinders can be coupled for simultaneously tensioning several bolt connections

Available on request 

- stud tension cylinders manufactured in conformity with customer specifications
- extended pulling nut
- heightened or lowered bridges (HTX)

Pumps
Hydraulic hoses
Couplers
Accessories

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HHX 22 with pulling nut



HHX 35 with pulling nut



HTX 100 with cylinder seat and pulling nut



HTX 100 with cylinder seat



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Pumps - 2-stage - single-acting
 

type	hand pump	foot pump
model	HTWX 1800 BU	FTWX 1800 BU
art no	110.142.003	110.142.004
working pressure bars/Mpa	1000 / 100	1000 / 100
max. operating force kg	36	36
output 1 st stage cm ³ /stroke	28	28
output 2 nd trap cm ³ /stroke	1.6	1.6
max. pressure 1 st stage bars	45	45
effective oil content cm ³	1800	1800
weight incl. oil kg	9.3	10.2
incl. coupler	A 238 female	A 238 female
maintenance set art no	110.143.007	110.143.007

Single hoses 1000 bars
 

model	X 1.2 M	X 3 M	X 5 M
art no	110.571.012	110.571.030	110.571.050
length m	1.2	3	5
connection	1/4" BSP male (2x)	1/4" BSP male (2x)	1/4" BSP male (2x)

Extension hoses 1000 bars
 

model	X 1.2 MU	X 3 MU	X 5 MU
art no	110.572.012	110.572.030	110.572.050
length m	1.2	3	5
connection	A 239 male (2x)	A 239 male (2x)	A 239 male (2x)

Specifications / important properties
 

- pumps:
 - suitable for large volumes
 - low power required while pumping; first stage will be fully pressureless after switch to second stage
 - automatic transition from first to second stage
 - large oil output per stroke
 - provided with dipstick
- hydraulic hoses:
 - anti-kink springs on both sides
 - 4:1 safety ratio
 - colour: blue



HTWX 1800 BU



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**Couplers**

image	description	model	art no
	quick coupler, female, including aluminium dust cap • connection: 1/4" BSP female • fits: A 239	A 238	150.581.238
	as A 238, but with extra lock ring	A 240	150.581.240
	quick coupler, male, including aluminium dust cap • connection: 1/4" BSP female • fits: A 238 and A 240	A 239	150.581.239
	2 aluminium dust caps, 1 male and 1 female • fits: A 238, A 239 and A 240	-	150.182.010

**Accessories**

image	description	model	art no
	pressure gauge, 0-1000 bars, including protection frame • pressure gauge Ø 162 mm • including quick coupler female, A 238	A 148 U	110.582.348
	coupling piece • including quick coupler female, A 238 (3x)	A 240 U	110.582.240



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Propeller set



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Propeller cylinders

model	HY 100 G 1 U	HY 100 G 3.5 U
art no	120.012.001	120.012.011
working pressure bars/Mpa	2000 / 200	2000 / 200
capacity kN/t	1000.5 / 102	1000.5 / 102
oil content cm ³	50	176
effective pressure area cm ²	50.27	50.27
weight kg	6	8.1
incl. coupler	Y 218 female (2x)	Y 218 female (2x)
maintenance set art no	120.403.001	120.013.001
A mm	49	85
B mm	25	24

Selection chart max. number of cylinders for propeller shaft diameter 200 until 550 mm

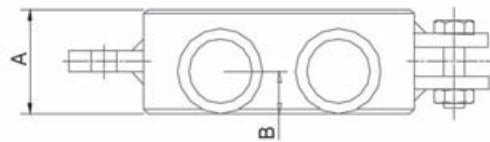
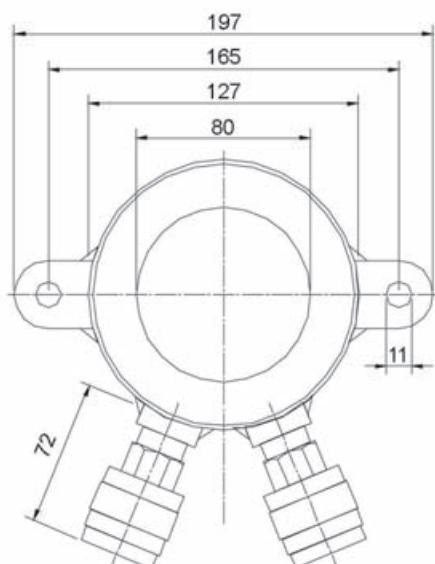
propeller shaft dia. mm	200	250	300	350	400	450	500	550
propeller shaft dia. inch	8	10	12	14	16	18	20	22
max. number of cylinders	7	8	9	10	11	12	13	14
max. available force ton	700	800	900	1000	1100	1200	1300	1400
max. available force kN	6867	7848	8829	9810	10791	11772	12753	13734

Selection chart max. number of cylinders for propeller shaft diameter 600 t/m 1000 mm

propeller shaft dia. mm	600	650	700	750	800	850	900	950	1000
propeller shaft dia. inch	24	26	28	30	32	34	36	38	40
max. number of cylinders	15	15	16	17	18	19	20	21	22
max. available force t	1500	1500	1600	1700	1800	1900	2000	2100	2200
max. available force kN	14715	14715	15696	16677	17658	18639	19650	20601	21582

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Specifications / important properties 

- compact
- lightweight
- can be adjusted to fit each propeller shaft diameter by coupling using connecting plates

Available on request 

- cylinders manufactured in conformity with customer specifications

Pumps
Hydraulic hoses
Couplers
Accessories

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HY 100 G 1 U



HY 100 G 1 U



Pumps - 2-stage - single-acting

model	HTWY 2300 U
art no	120.442.001
working pressure bars/Mpa	2000 / 200
max. operating force kg	36
output 1 st stage cm ³ /stroke	31
output 2 nd stage cm ³ /stroke	1.6
max. pressure 1 st stage bars	30
effective oil content cm ³	2300
weight incl. oil kg	16
incl. coupler	Y 218 female
maintenance set art no	120.443.001

Specifications / important properties

- compact and lightweight
- low maintenance
- suitable for large volumes
- automatic transition from first to second stage
- large pomp output per stroke
- provided with dipstick



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HTWY 2300 U

Single hoses 2000 bars 

model	Y 1.5 MK	Y 3 MK	Y 5 MK
art no	120.571.115	120.571.130	120.571.150
length m	1.5	3	5
connection	M14 x 1.5 swivel (2x)	M14 x 1.5 swivel (2x)	M14 x 1.5 swivel (2x)

Extension hoses 2000 bars 

model	Y 1.5 MKU	Y 3 MKU	Y 5 MKU
art no	120.572.115	120.572.130	120.572.150
length m	1.5	2	5
connection	Y 219 male (2x)	Y 219 male (2x)	Y 219 male (2x)

Specifications / important properties 

- single hoses with:
 - M14 x 1.5 swivel connection on both sides
 - threefold safety
 - colour: blue
- extension hoses with:
 - coupler male, Y 219 on both sides
 - threefold safety
 - colour: blue



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Y 3 MK



Y 3 MKU


Couplers and accessories

image	description	model	art no
	coupler, female, including steel dust cap • connection: M22 x 1.5 male • fits: Y 219	Y 218	120.481.218
	coupler, male, including steel dust cap • connection: M22 x 1.5 female • fits: Y 218	Y 219	120.481.219
	nipple • connection: M14 x 1.5 male - M22 x 1.5 male • for mounting Y 219 or Y 218 on loose hose	-	120.181.201
	pressure gauge, 0-2000 bars, including protection frame • pressure gauge Ø 162 mm • including coupler female, Y 218	Y 220 U	120.182.220
	rotation elbow • including coupler male, Y 219 and coupler female Y 218	Y 215 U	120.182.215
	connecting plate • centre to centre size: 84 mm	Y 200	120.481.200
	suspension hook	Y 205	120.181.205



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- **repair**
- **periodical maintenance**
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