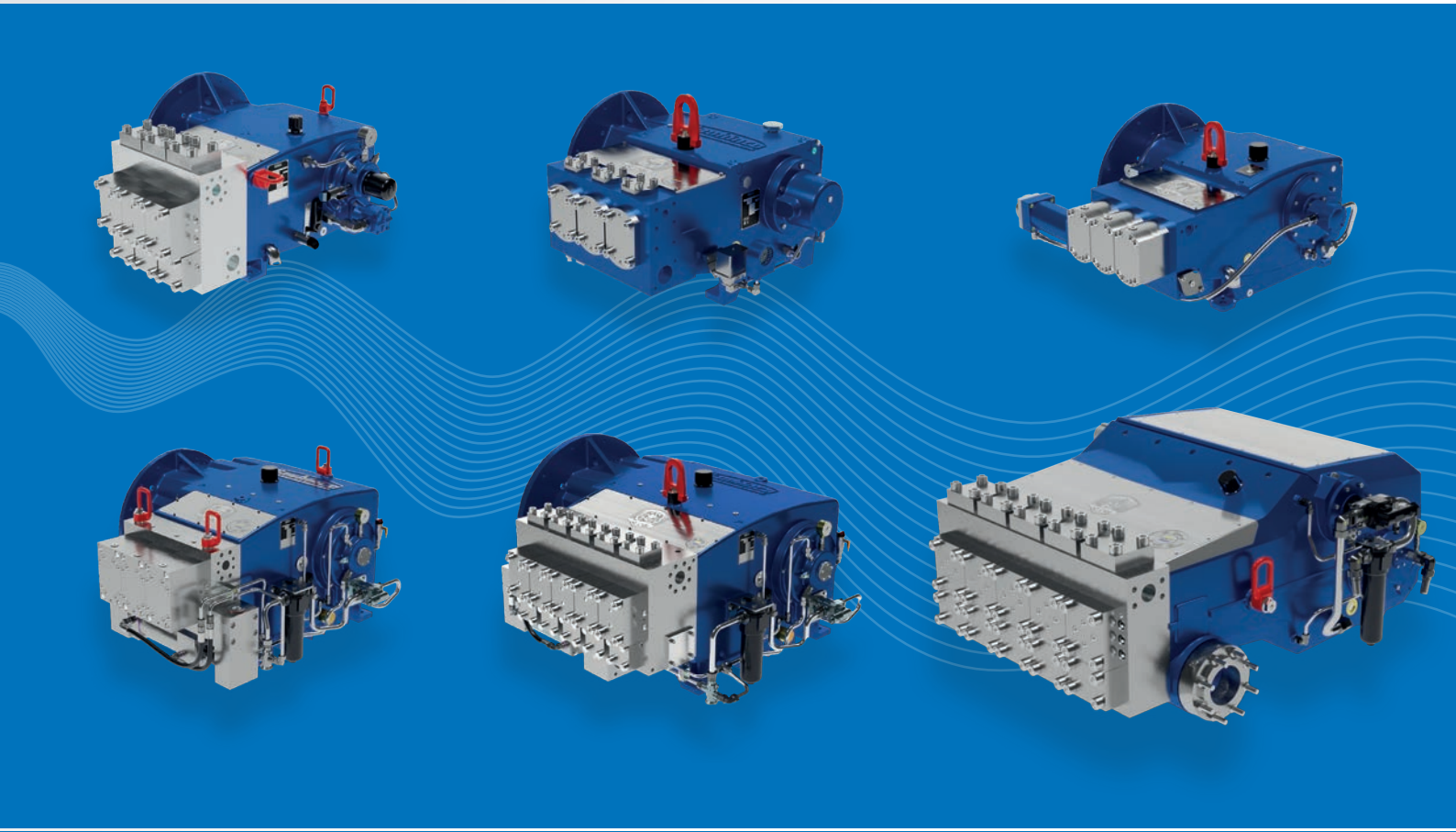
Hauhinco

AN HBT GROUP COMPANY

High Pressure Plunger Pumps for continuous operation



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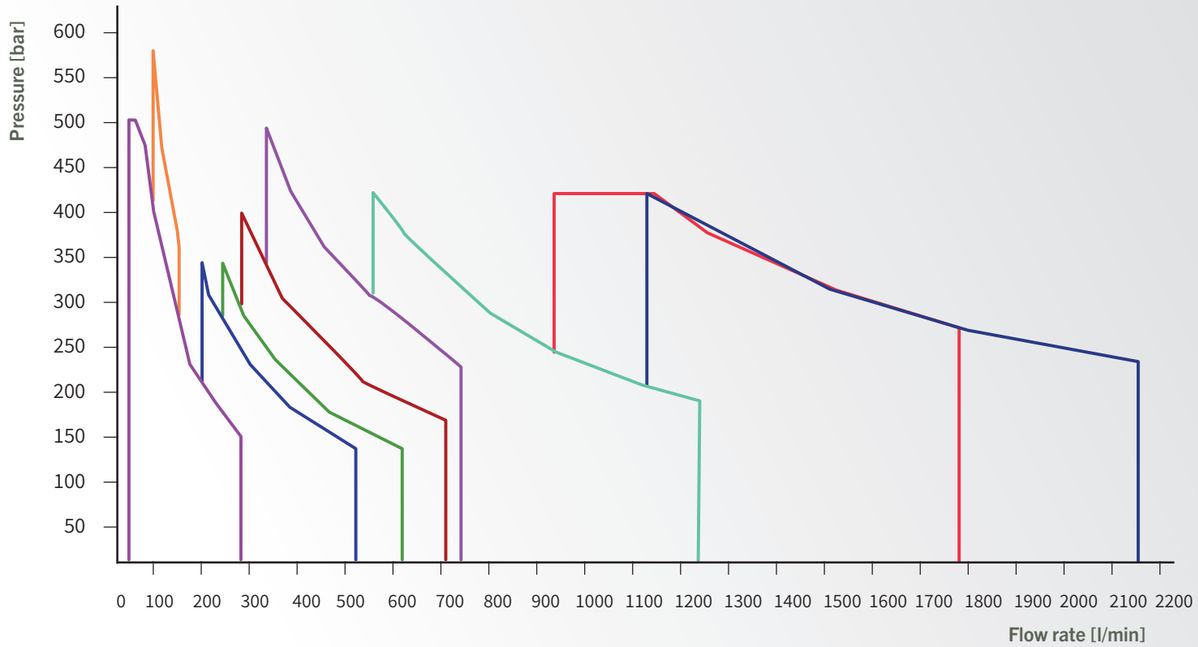

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Hauhinco Maschinenfabrik GmbH
Catalogue High Pressure Pumps | Rev. GB
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Hauhinco

AN **HBT GROUP** COMPANY

From a mining supplier to an expert for water-hydraulic solutions

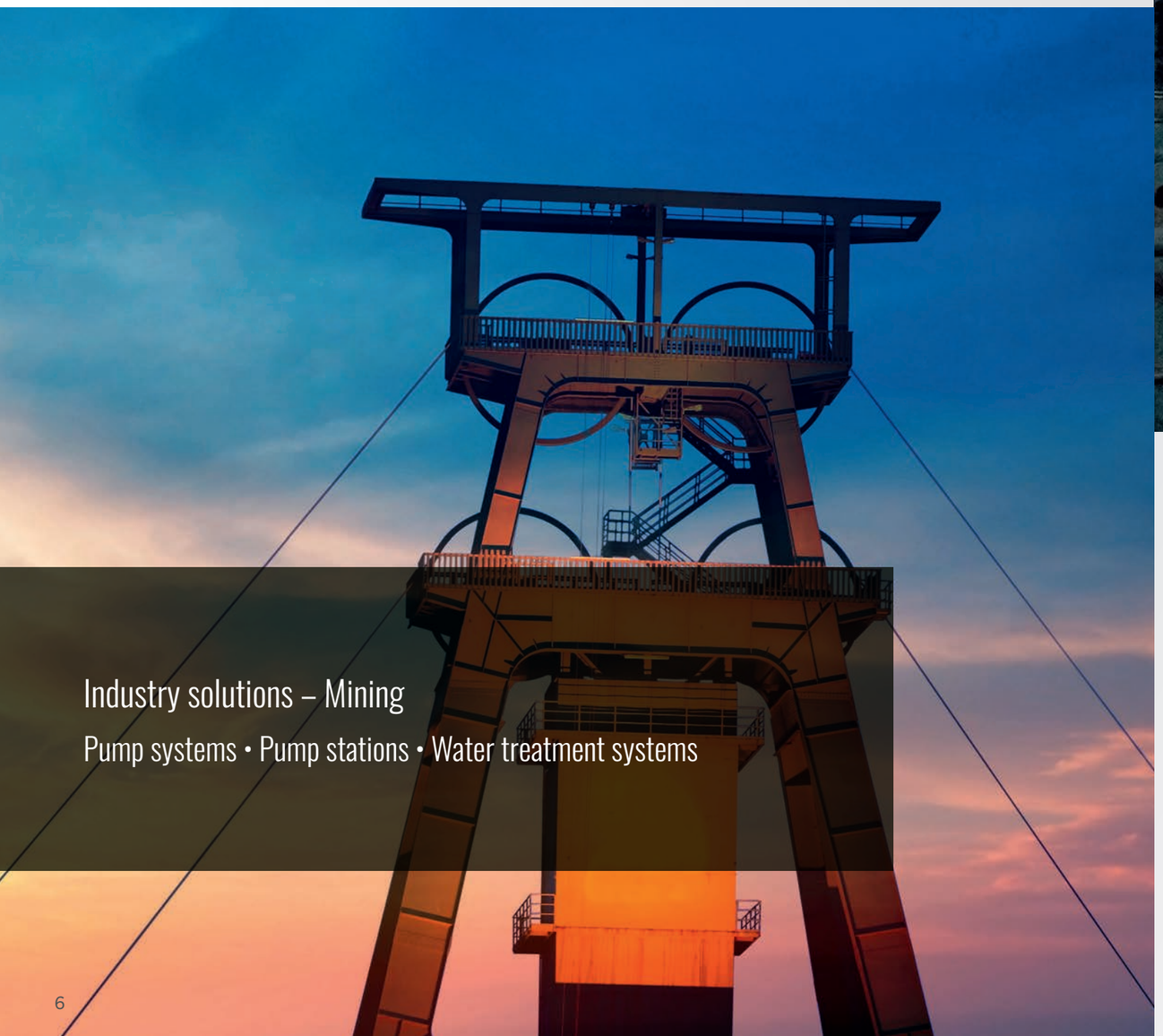
Tradition and innovation go hand in hand at Hauhinco. Founded in 1908 in Sprockhövel, Germany in the cradle of Ruhr mining, Hauhinco has remained true to its roots – up to the present time. For over 115 years, the company has adapted to many changes in structure and circumstances and continually brought new, innovative products onto the market.

This experience makes Hauhinco unique in the market place. We have been developing and producing high-pressure plunger pumps for over 50 years and water-hydraulic valves and controls for over 30 years. This know-how makes Hauhinco the partner for today's sustainable and intelligent water-hydraulic solutions.

Turnkey, all from a single source

Hauhinco is represented in a large number of industries with water hydraulic components and system solutions. In particular with comprehensive engineering solutions Hauhinco creates high quality systems that set standards.

Hauhinco offers complete engineering solutions in the area of modernization, expansion and also in the design of new control systems and drives for water-hydraulic presses.



Industry solutions – Mining

Pump systems • Pump stations • Water treatment systems

Industry solutions - Industrial

Control systems for drives and presses • Descaling systems

Industry solutions

Numerous amounts of large-scale projects realized with equipment manufacturers and global companies from the steel, non-ferrous metal, light metal and automotive industry reflect our competence and the confidence placed in our products and services. Our control systems and drives distinguish themselves through safety, precision, reliability, efficiency and repeat accuracy and are tailored to the customer-specific processes and needs.

Because of this, the product quality is sustainably improved and the process and work safety regulations are fulfilled to 100%.

Using the power of water

As one of the most powerful elements in the world, a variety of reasons ensure that even today water is an important and indispensable hydraulic medium. Water hydraulics have been in daily use for decades in underground longwall mining and in numerous industrial applications. Strict regulations and laws make environmentally friendly, safe, clean and hygienic hydraulic systems indispensable in many sensitive processes, production facilities and applications.

Continuous further development, the ready availability of the medium water and also the low life cycle costs (LCC) make water-hydraulics a commercially interesting alternative. Particularly storage, cleaning, disposal and insurance conditions are far more attractive.

Water-hydraulic engineering competence

Through a high degree of expertise in engineering science we are developing powerful, intelligent and environmentally friendly water-hydraulic systems for every requirement with the medium water. Thanks to our decades of expert knowledge and a well-founded process understanding of a diversity of markets, we know the high demands in mining and industry. This first-hand experience enables us to speak the language of our customers and to develop tailor-made systems.

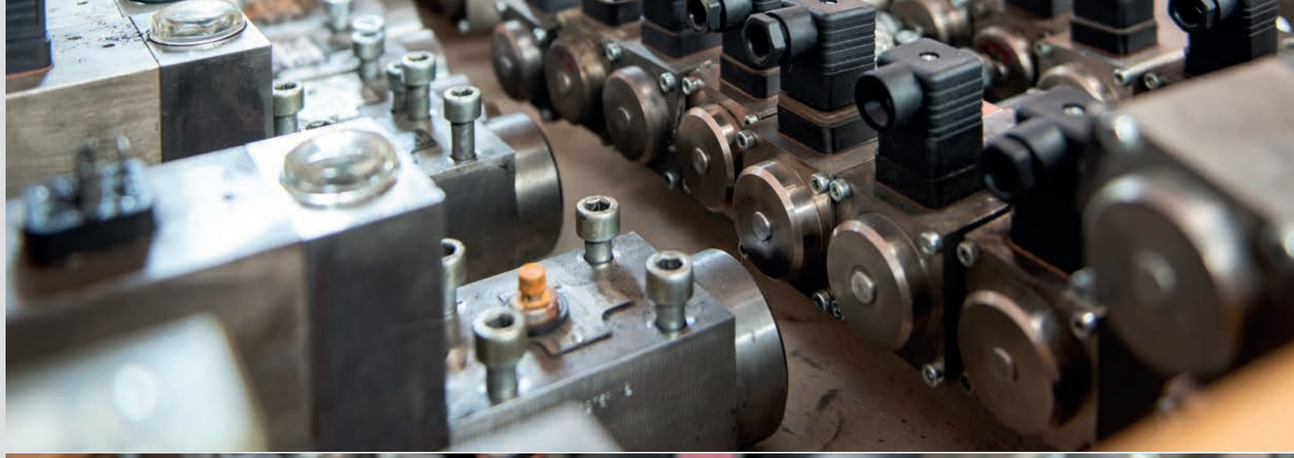
Research & development

Research into new and existing areas, the development of new products as well as continuous further development of existing products, services and processes are of major significance at Hauhinco. For this purpose we regularly exchange information with our customers, other organisations, institutes and universities. New findings from a very wide range of areas often promote new ways of thinking and approaches and as a consequence flow into the development of our water-hydraulic products and systems.

Cross-sector process understanding
for customer-specific **engineering solutions**

Water Hydraulic Valves

A complete valve product portfolio, as well as many years of experience in water hydraulics guarantee an optimal selection for numerous applications. The volumetric flow rate is up to 30 000 dm3/min at operating pressures of up to 800 bar.



For numerous applications

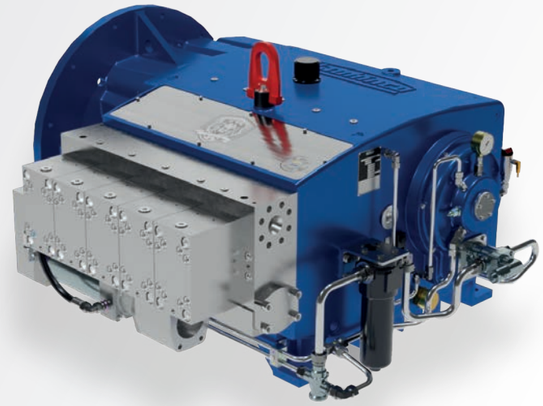
Along with control blocks (controls, manifolds), control technology and modular fluid systems, valves are among the most important components in water hydraulic installations.

They perform a wide variety of tasks: they reliably control, regulate and limit hydraulic flow rates – even in the toughest conditions under high pressure..

A complete valve product portfolio, as well as many years of experience in water hydraulic engineering guarantee an optimal selection for numerous applications, especially for press controls (manifolds, valve blocks) for water hydraulic presses off all kinds. Like all Hauhinco products, all valves are subjected to a complete function test prior to delivery.

High Pressure Plunger Pumps for continuous operation

Hauhinco high pressure plunger pumps have proven their reliability in a wide range of water hydraulic fluid applications and in the harshest conditions for more than 50 years. Decades of water hydraulic experience and the continuous exchange of information with users and research in fluid technology have facilitated the further development of the compact triplex and quintuplex plunger pumps and radial piston pumps.



The advantages of Hauhinco high pressure plunger pumps

Hauhinco triplex and quintuplex high pressure plunger pumps are energy-efficient, robust units designed for continuous operation. As is typical for Hauhinco, every high pressure pump is available in a foot type and a flange type.

High quality materials, wear-resistant and corrosion-resistant coatings, innovative technical designs as well as the latest manufacturing and inspection processes guarantee low wear and long service lives.

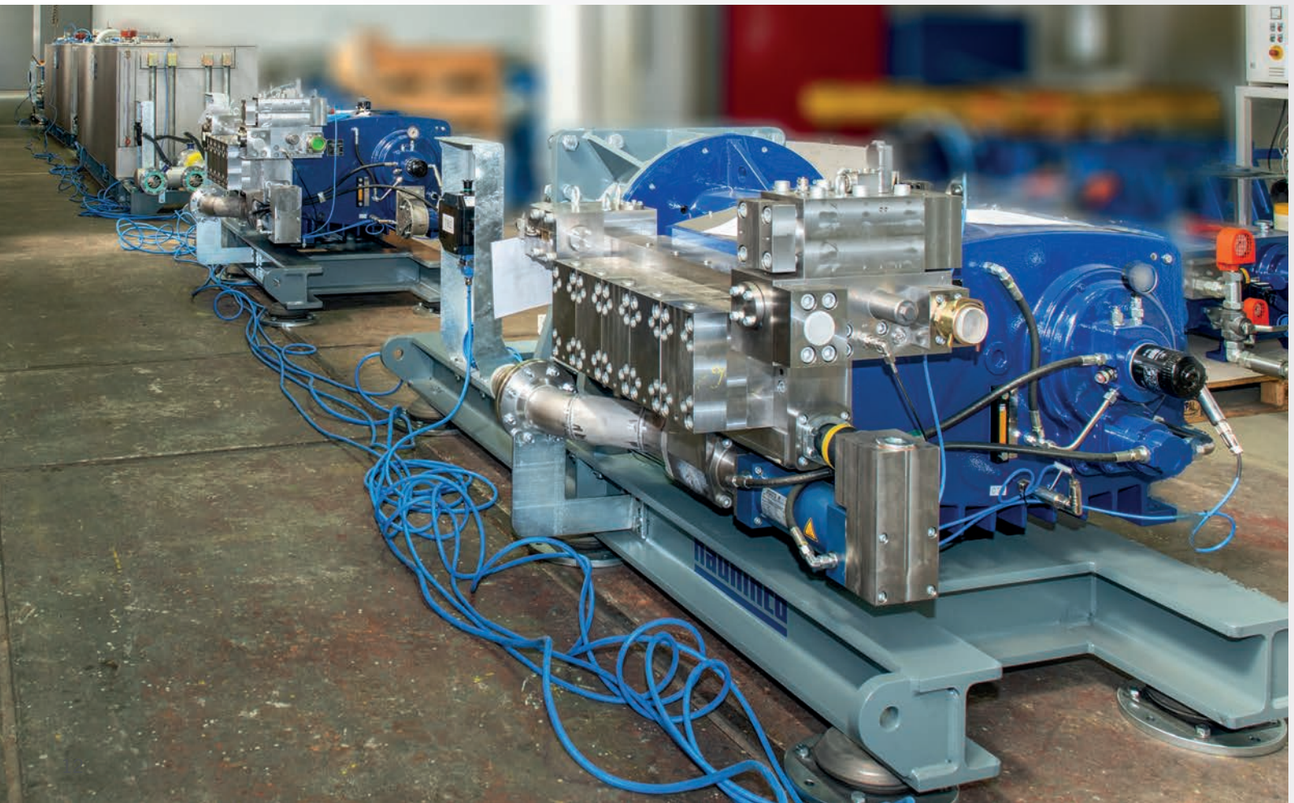
With a broad flow rate range from 42 - 2,137 l/min and operating pressures up to 575 bar, Hauhinco plunger pumps are a natural fit for all water hydraulic applications, such as for example for the high pressure and water spray supply in underground longwall mining, as press drives and in descaling systems.

All high pressure pumps are equipped with a crankshaft drive and integrated helical gearing with circulating oil lubrication. Optionally, every pump type can be equipped with an external lubricating oil supply and a variable frequency drive.

Various volumetric flow rate and pressure combinations are possible with every pump type by simply replacing the pump inserts. As a consequence Hauhinco units can be adapted flexibly if the conditions and requirements change.

All components are easy to access due to the maintenance-friendly design.

Quick, straightforward replacement is therefore guaranteed when required. With this innovative engineering quality „Made in Germany“, Hauhinco sets standards worldwide in water hydraulics. Hauhinco high pressure pumps stand for maximum efficiency and cost-effectiveness. Numerous additions and adaptations are available for all pumps. Fully tailored pump units can be manufactured, starting with pump bypass, pressure limiting and safety valves, through pulsation dampeners, to customs designs.



Fluids

- HFA/HFC fluids
- Non-oily water/clear water
- Mine water
- Industrial water
- Descaling water
- Neutral fluids with a viscosity of 0.5 – 4.0 mm^2/s

Control systems

- Pump circulation control
- Pressure relief valve
- Pulsation
- Combi block

Range of Applications

- High Pressure Supply
- Water Spraying and Cooling
- Hydraulic Drives (Water hydraulics, Emulsion hydraulics)
- Press Drives
- Descaling
- Pressurized Water Systems
- Pump Stations
- Cleaning

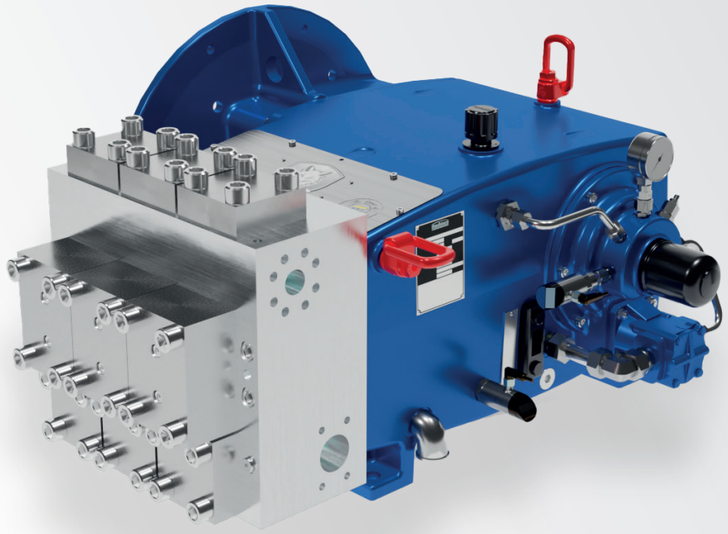
And many more.

Key data at a glance

- Flow rate up to 2,137 dm^3/min
- Operating pressures up to 575 bar
- Drive powers up to 850 KW

EHP-3K 75S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

Type	Plunger-diameter	Input speed 1.500 1/min				Input speed 1.800 1/min	
		Gearbox ratio 3,167		Gearbox ratio 2,524		Gearbox ratio 3,167	
		max. Operating pressure [1]	Flow rate	max. Operating pressure [1]	Flow rate	max. Operating pressure [1]	Flow rate
	mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
HD	25	500	42	500	53	500	50
	32	500	69	460	86	500	82
	36	460	87	360	109	380	104
	40	380	107	300	134	320	129
	45 [2]	300	136	240	170	250	163
ND	50	240	167	190	210	200	201
	57,5	180	221	140	278	150	266

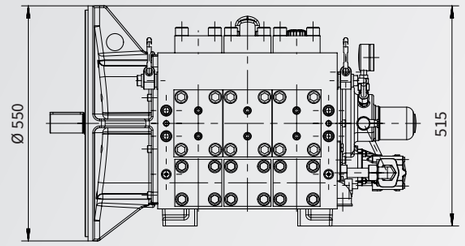
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  75 kW
- **available variations:**
  Stainless steel pumphead cylinder valve design (SZ)

1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

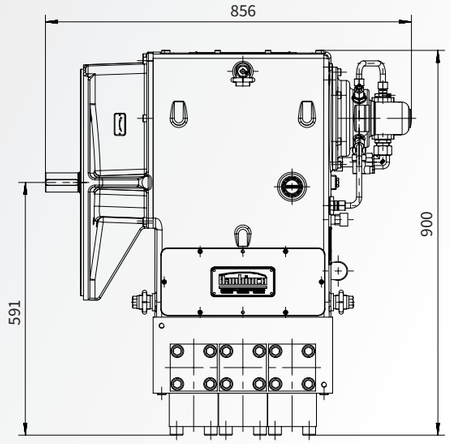
[1] Max. approved operating pressure at the pressure connection pump head.
[2] On request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 75S

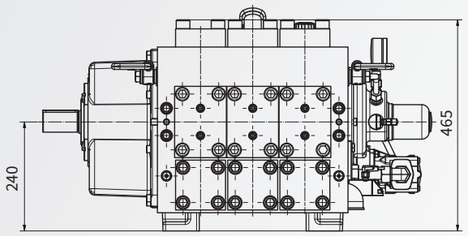
Flange-type



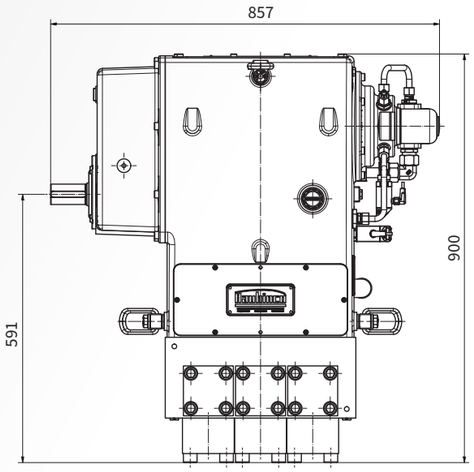
- **Weight**[3]
  650 kg



Foot-type



- **Weight**[3]
  620 kg

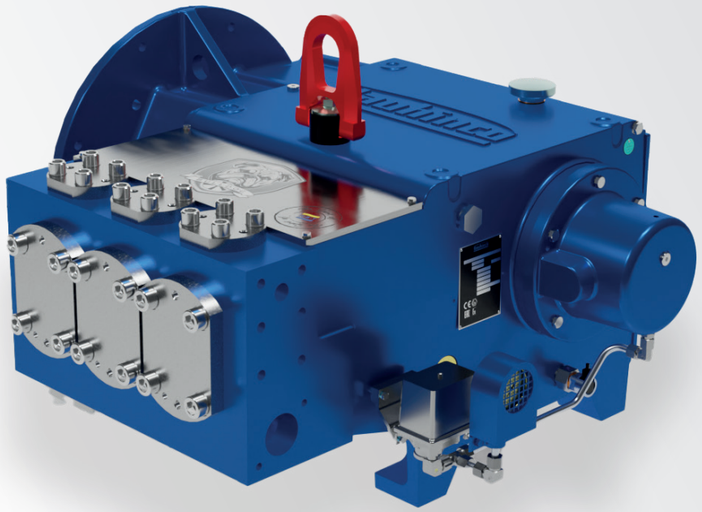


EHP-3K 75S

Triplex Plunger Pump

EHP-3K 110

Cast-on Pumphead, flange valve design (GF)



Technical data

	Input speed 1.500 1/min				Input speed 1.800 1/min	
	Gear ratio 2,19		Gear ratio 2,667		Gear ratio 2,667	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
36	575	105	575	86	575	103
40	465	129	465	106	465	127
45	365	163	365	134	365	161

- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  110 kW
- **available variations:**
  Cast-on pumphead flange type (GF)

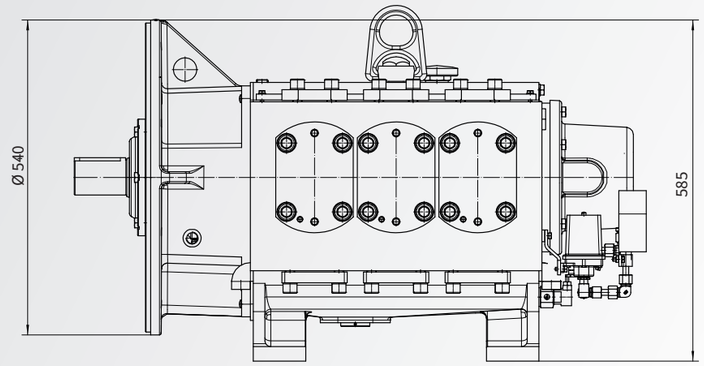
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

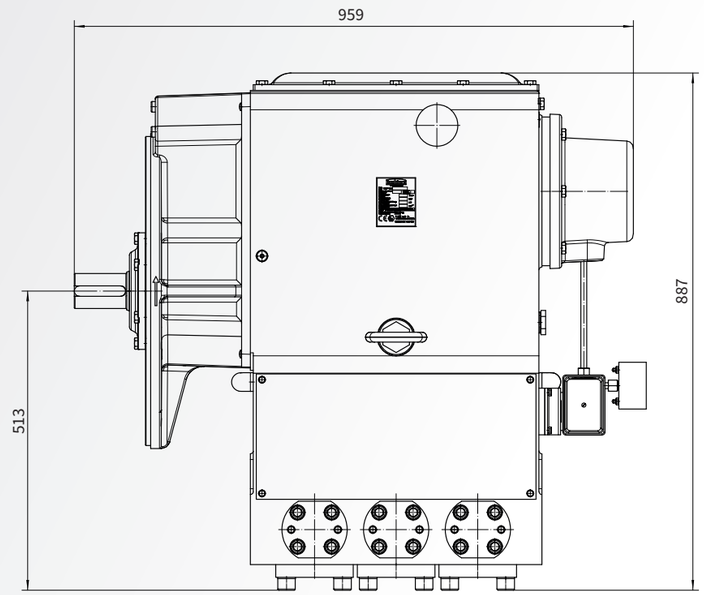
[1] Max. approved operating pressure at the pressure connection pump head.
[2] The weight specifications apply for pumps without any attachment parts.

Triplex Plunger Pump

EHP-3K 110

Flange-type



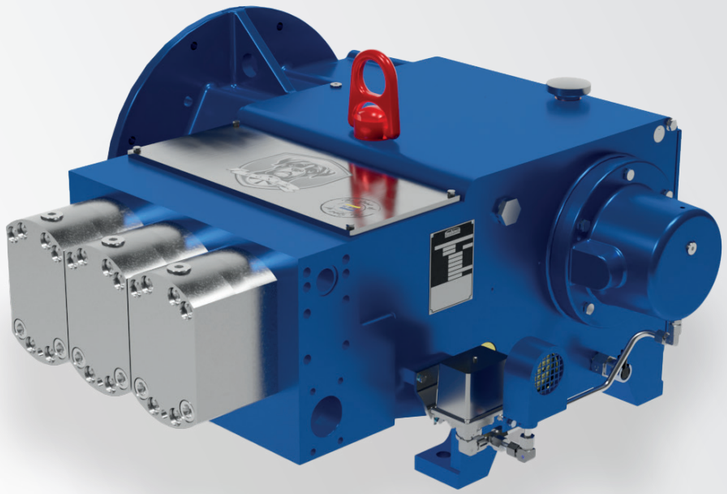


- **Weight**[2]
  620 kg

EHP-3K 110

EHP-3K 125, 150

Cast-on Pumphead, plate valve design (GP)



Technical data

		Input speed 1.500 1/min				Input speed 1.800 1/min	
		Gear ratio 2,19		Gear ratio 2,667		Gear ratio 2,667	
Type	Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
	mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
EHP-3K 125	50	340	202	340	166	340	199
	53	300	227	300	186	300	223
	55	280	244	280	200	280	241
	62	220	310	220	255	220	306
	70	170	395	170	325	170	390
	80	130	516	130	424	130	509
EHP-3K 150	50	340	242	340	199	340	239
	53	300	272	300	223	300	268
	55	280	293	280	241	280	289
	62	220	372	220	306	220	367
	70	170	474	170	390	170	468
	80	130	620	130	509	130	611

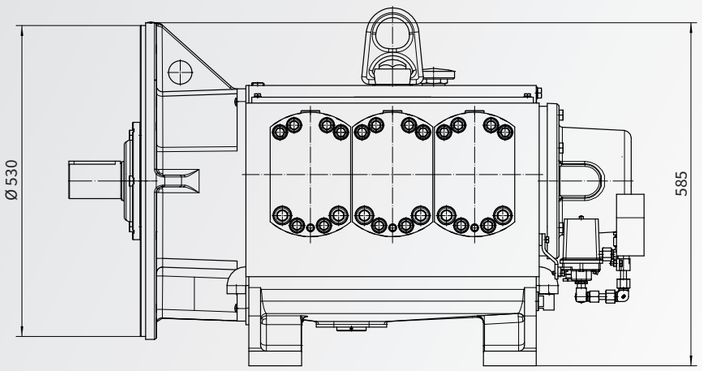
- **max. input speed:** 1,500 / 1,800 1/min
- **max. input power:** 125 resp. 150 kW
- **available variations:**
  Cast-on pumphead plate valve design (GP)
  Stainless steel pumphead cylinder valve design (SZ)

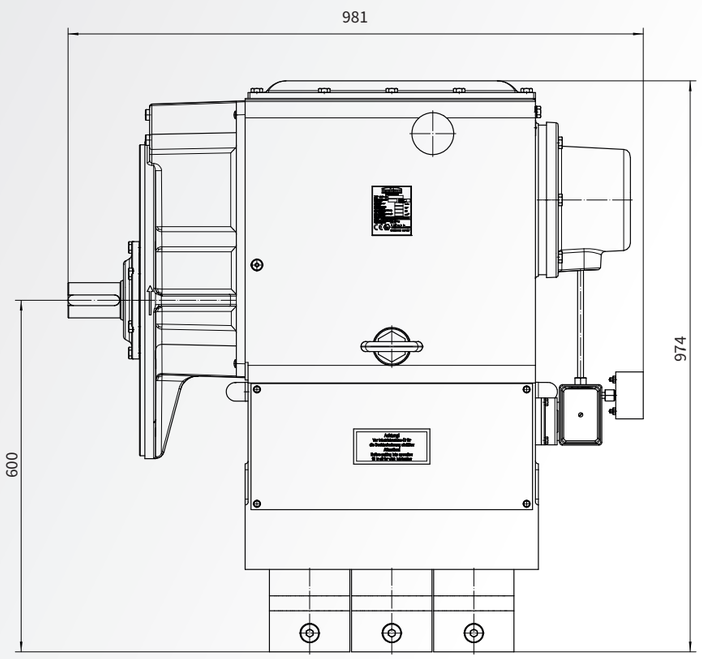
1 kW	= 1.3410 HP	1 bar	= 14.5038 psi
1 kg	= 2.205 lbs	1 l	= 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] The weight specifications apply for pumps without any attachment parts.

EHP-3K 125, 150

Flange-type



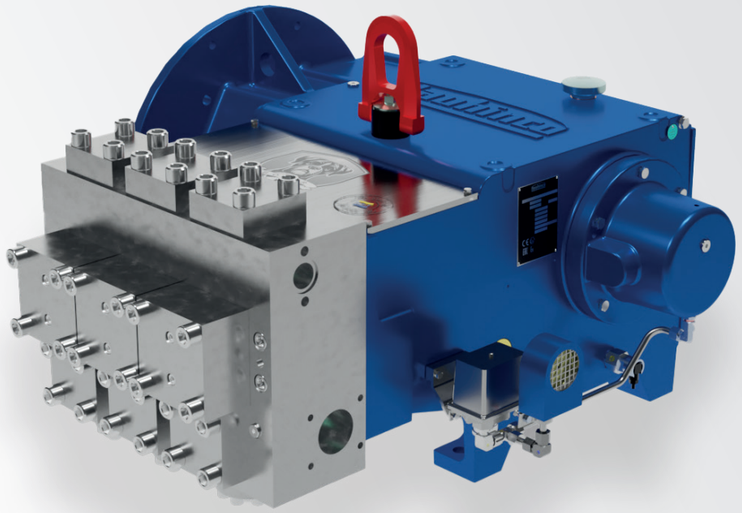


- **Weight**[2]
  650 kg

EHP-3K 125, 150

EHP-3K 125S, 150S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

Type	Plunger-diameter	Input speed 1.500 1/min				Input speed 1.800 1/min	
		Gear ratio 2,19		Gear ratio 2,667		Gear ratio 2,667	
		max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
	mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
EHP-3K 125	50	340	202	340	166	340	199
	55	280	244	280	200	280	241
	62	220	310	220	255	220	306
	70 [2]	170	395	170	325	170	390
EHP-3K 150	50	340	242	340	199	340	239
	55	280	293	280	241	280	289
	62	220	372	220	306	220	367
	70 [2]	170	474	170	390	170	468

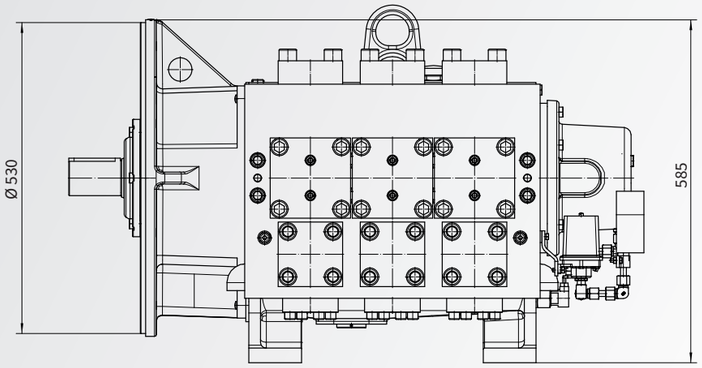
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  125 resp. 150 kW
- **available variations:**
  Cast-on pumphead plate valve design (GP)
  Stainless steel pumphead cylinder valve design (SZ)

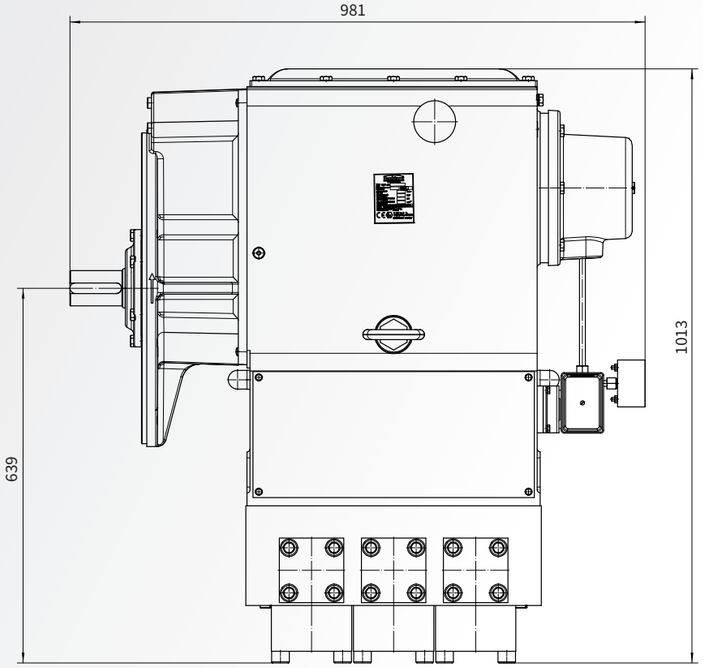
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] On request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 125S, 150S

Flange-type



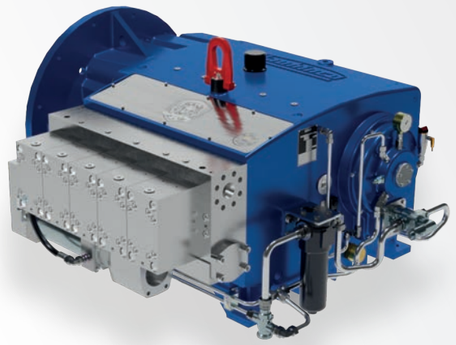


- **Weight**[3]
  782 kg

EHP-3K 125S, 150S

Plate and cylinder valve technology

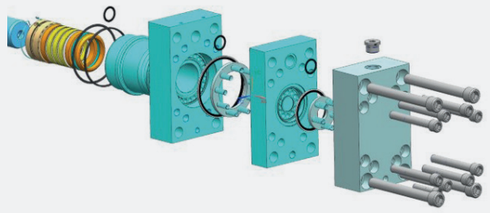
Plate Valves



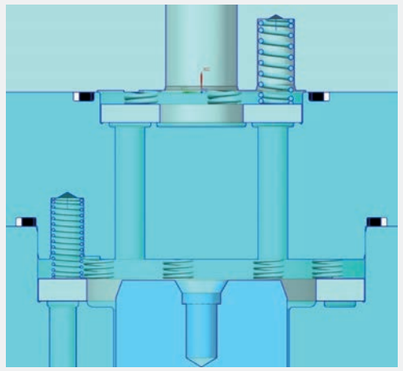
Characteristics

- Integrated construction
  re-machining of the seat possible
- Valve plates can be turned
- Large flow cross-sections
- Self priming
- High dynamics due to low mass
- Low pulsation
- No pressure changes in the head

Basic design



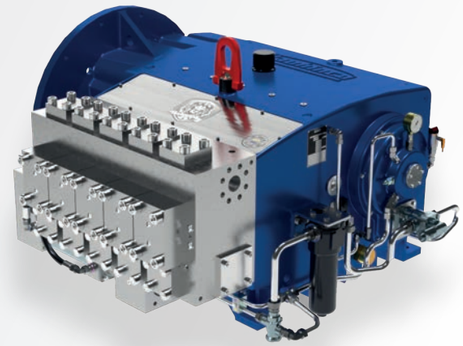
Pressure Valves



Suction Valves

With the example of: EHP-5K 400S

Cylinder Valves

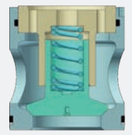


Characteristics

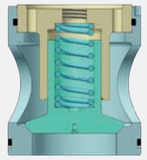
- Installation cartridge
- Seats can be regrinded manually
- LP housing with optimized suction flow
- Pulsation-optimized springs

HD

ND

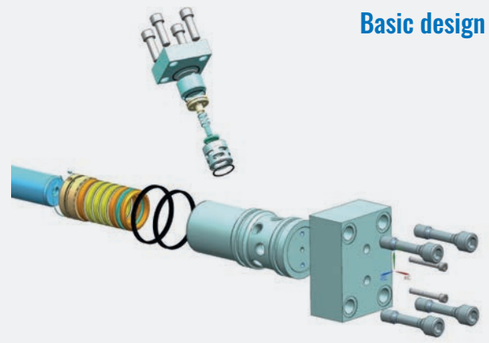


Druckventil



Saugventil

Basic design



Comparison of the valve properties

Design	Cylinder valves	Plate valves
Robust design	++	+
Security against loosening of components	++	++
Less Parts	++	-
Complexity of the components	++	--

Fluid	Cylinder valves	Plate valves
Pollution resistance	++	+
Adaptable to media quality	++	o
Reliability (service life)	++	++

Legende: ++ (very good); + (good); o (Is not given (intended); - (unfavorable); -- (does not apply)

Comparison of the valve properties

Maintenance	Cylinder valves	Plate valves
Low maintenance	+	+
Easy maintenance	++	- / +
Assembly without lifting gear	+	-
Repair	++	--
Inexpensive spare parts	+	++ (--)

Hydraulic	Cylinder valves	Plate valves
Efficiency	-	++
Hydraulic load on the pump head	--	++
Pulsation	-	+
Self priming	+	++

Our quality is your market advantage

We are your partner for intelligent, sustainable and economical water-hydraulic solutions

Hauhinco, as the world's leading manufacturer of water hydraulics solutions and systems, provides customers exclusively with high-quality, intelligent and high-performance high-pressure technologies and services.

With our water hydraulics expertise, we design tailor-made solutions for underground mining as well as innovative descaling systems for hot rolled products. Whether high-pressure pump stations, spray pump stations or press water stations, with or without water treatment, we manufacture certified pump systems with all necessary approvals for the international market.

Hauhinco stands for high quality plunger pumps and systems that guarantee the necessary safety and reliability during operation.

The satisfaction of the customer is the highest priority at all times during the business relationship. We do not merely develop solutions, but we also want to supply our customers with our products and systems to provide long-term support so that they can achieve their own business targets.

One of the keys to the achievement of our targets is our highly qualified and motivated workforce, another is the well thought out structure which we live and breathe, which facilitates and promotes our flexible and innovative way of working. Our medium-sized business, short decision-making routes and quick communication with one another are the basis for the development of optimum, customised solutions.

The modern production process, in which specialists from all technical disciplines work together to achieve great things, ensures our customers the highest quality and efficiency. Environmental protection is not just an important aspect of water hydraulics but also of great significance in our daily work.

Quality management systems and certifications are the basis of sustainable business success. The entire value-added chain is therefore characterised by a high demand for quality.

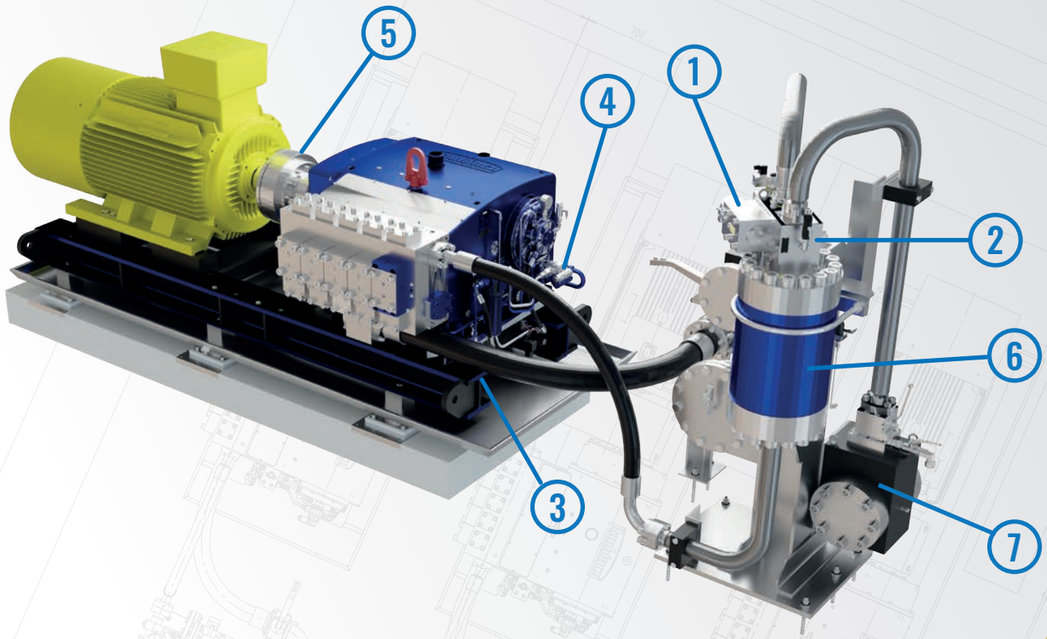
A constant exchange with our customers, research in new and existing areas and close cooperation with institutions of higher education are of immense importance at Hauhinco.

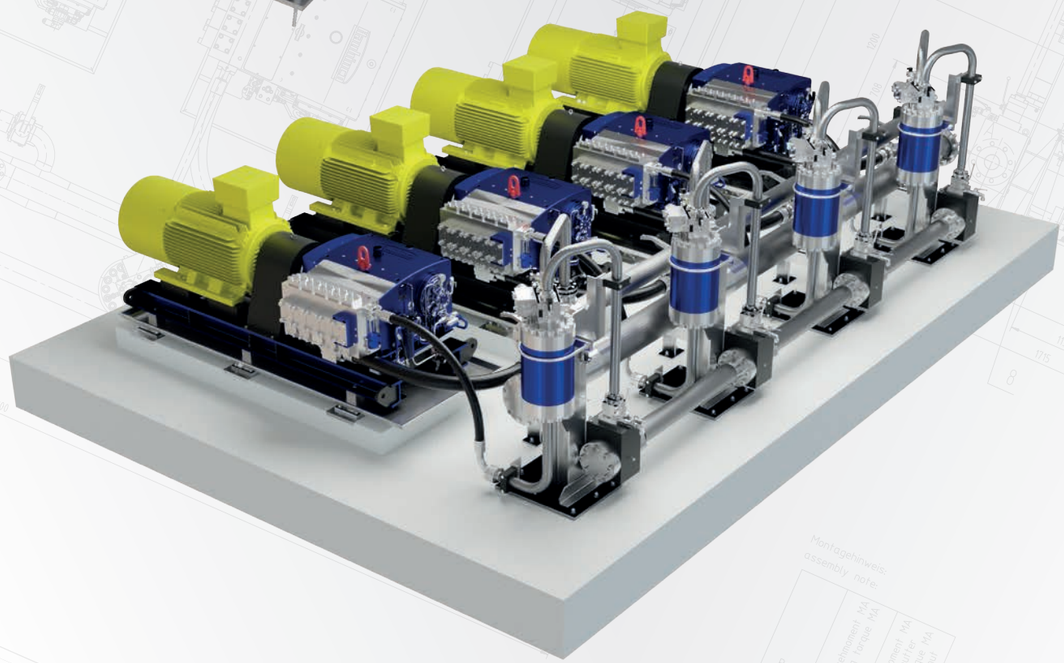
Our employees benefit from constant training and further education courses to learn the newest methods and findings. Because we have one aim:

To consolidate and build on our position as the leading water hydraulics competence centre.

Standard design pump system mining / industry

Industry

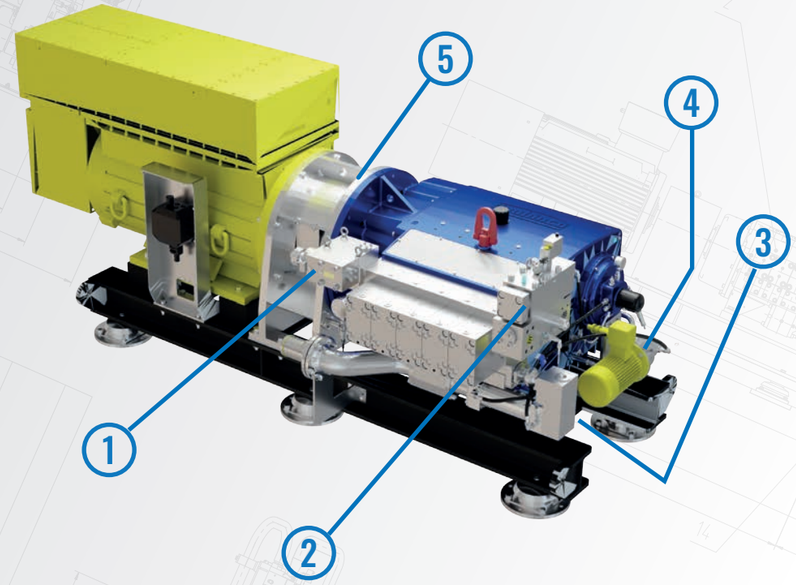




1. Pressure relief valve / Overflow tube
2. Pump circulation control system
3. Cooler integrated into the frame
4. Internally driven lube oil pump
5. Foot-type
6. Resonator
7. Module block

With the example of: EHP-5K 400S

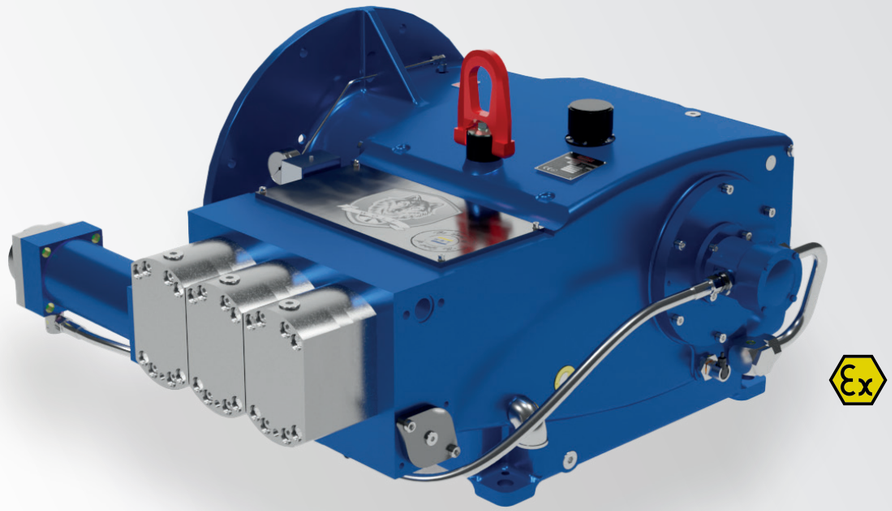
Mining



1. Pressure relief valve / Overflow tube
2. Pump unloader control system
3. Inline shell and tube cooler
4. Externally driven lube oil pump
5. Flange-type

EHP-3K 200

Cast-on Pumphead, plate valve design (GP)



Technical data

	Input speed 1,500 1/min				Input speed 1.800 1/min	
	Gear ratio 2,25		Gear ratio 2,706		Gear ratio 2,706	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
50	400	275	400	229	400	274
53	360	309	360	257	360	308
55	330	333	330	277	330	332
57,5	300	364	300	302	300	363
62	260	423	260	351	260	422
70	200	539	200	448	200	538
80	160	704	160	585	160	702

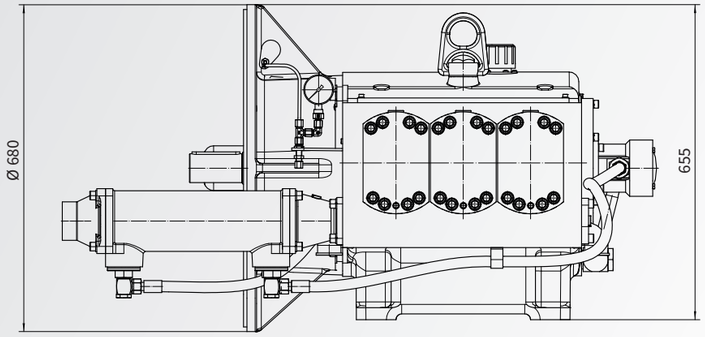
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  200 kW
- **available variations:**
  Cast-on pumphead plate valve design (GP)
  Stainless steel pumphead cylinder valve design (SZ)

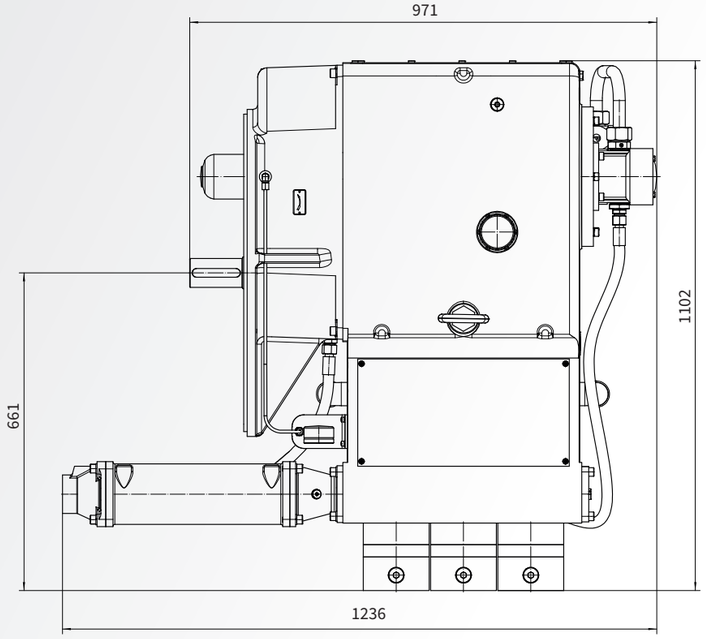
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] The weight specifications apply for pumps without any attachment parts.

EHP-3K 200

Flange-type



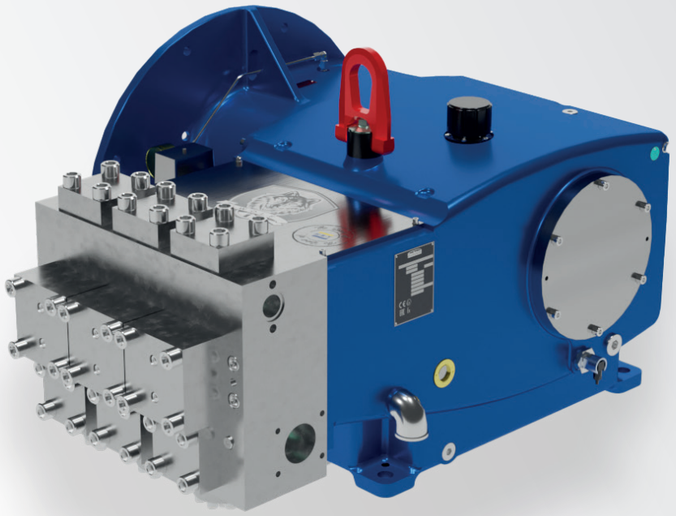


- **Weight**[2]
  830 kg

EHP-3K 200

EHP-3K 200S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

	Input speed 1.500 1/min				Input speed 1.800 1/min	
	Gear ratio 2,25		Gear ratio 2,706		Gear ratio 2,706	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
50 [2]	400	275	400	229	400	274
53	360	309	360	257	360	308
55 [2]	330	333	330	277	330	332
57,5 [2]	300	364	300	302	300	363
62	260	423	260	351	260	422
70 [2]	200	539	200	448	200	538

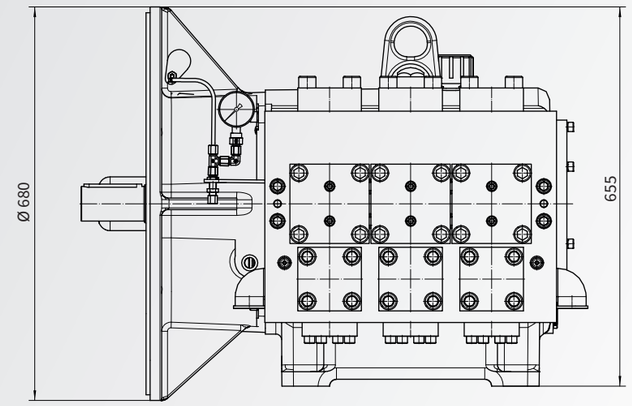
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  200 kW
- **available variations:**
  Cast-on pumphead plate valve design (GP)
  Stainless steel pumphead cylinder valve design (SZ)

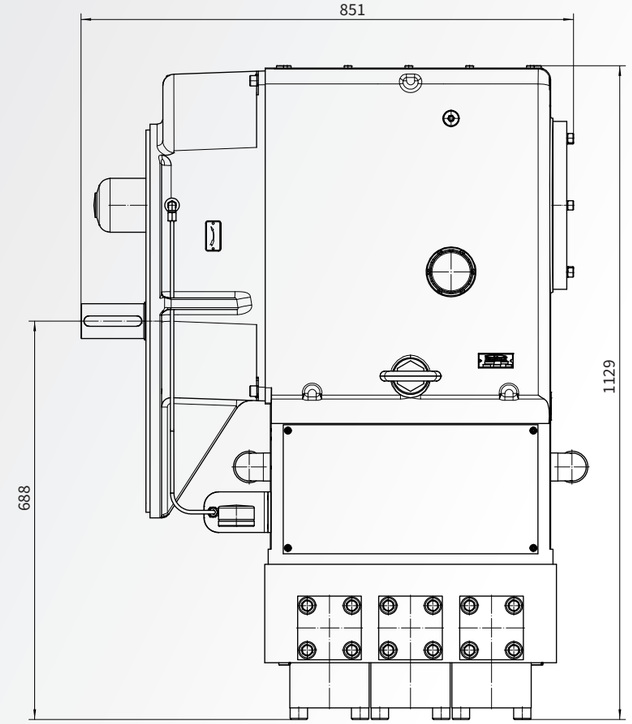
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] On Request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 200S

Flange-type





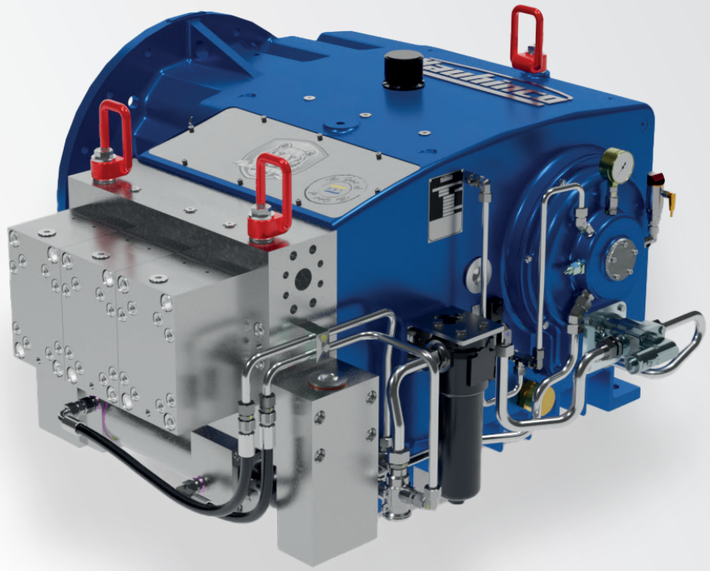
- **Weight**[3]
  897 kg

EHP-3K 200S

Triplex Plunger Pump

EHP-3K 300S

Stainless Steel Pumphead, plate valve design (SP)



Technical data

	Input speed 1.500 1/min				Input speed 1.800 1/min	
	Gear ratio 3,067		Gear ratio 3,667		Gear ratio 3,667	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
53	500	324	500	271	500	325
57,5	420	381	420	319	420	382
62	360	443	360	370	360	445
65 [2]	330	487	330	407	330	489
70 [2]	290	565	290	472	290	567

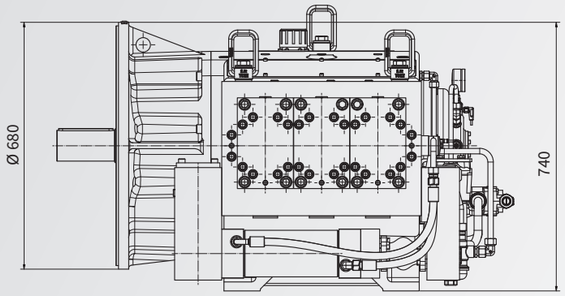
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  300 kW
- **available variations:**
  Stainless steel pumphead cylinder valve design (SZ)
  Stainless steel pumphead plate valve design (SP)

1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

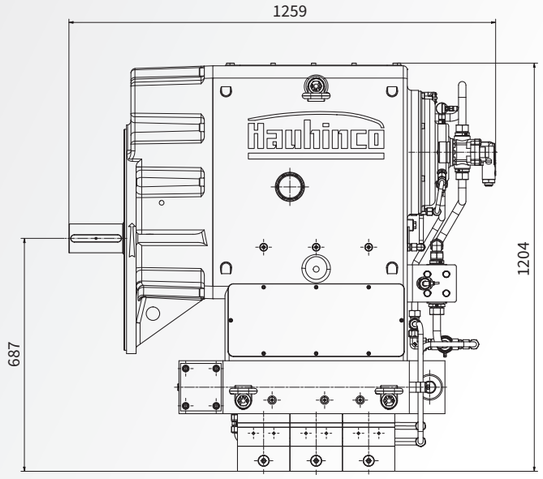
[1] Max. approved operating pressure at the pressure connection pump head.
[2] On Request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 300S

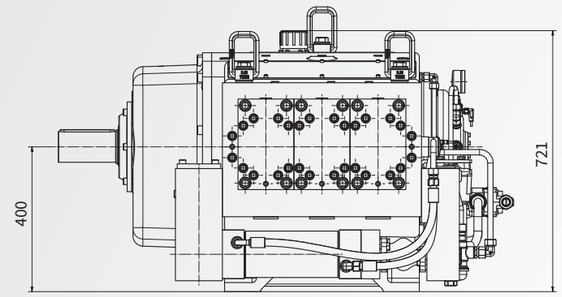
Flange-type, with plate valves



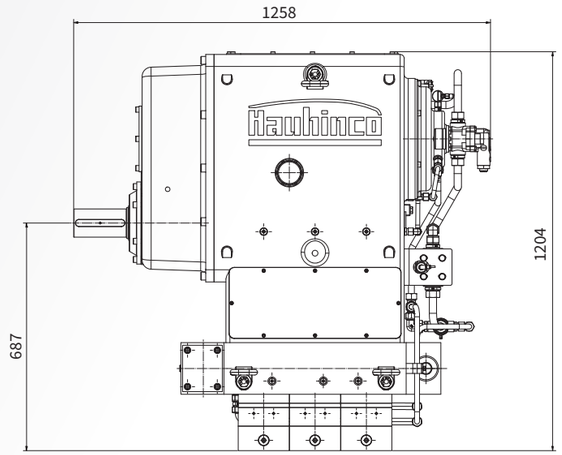
- **Weight**[3]
  1,830 kg



Foot-type, with plate valves



- **Weight**[3]
  1,770 kg

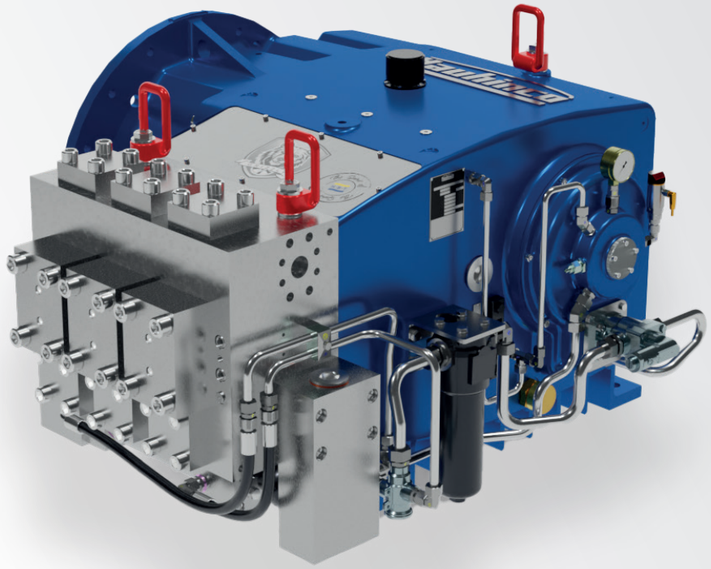


EHP-3K 300S

Triplex Plunger Pump

EHP-3K 300S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

Type	Plunger-diameter	Input speed 1.500 1/min				Input speed 1.800 1/min	
		Gear ratio 3,067		Gear ratio 3,667		Gear ratio 3,667	
		max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
	mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
HD	53	500	324	500	271	500	325
	57,5	420	381	420	319	420	382
	62	360	443	360	370	360	445
	65 [2]	330	487	330	407	330	489
ND	70 [2]	290	565	290	472	290	567
	80 [2]	220	738	220	617	220	740

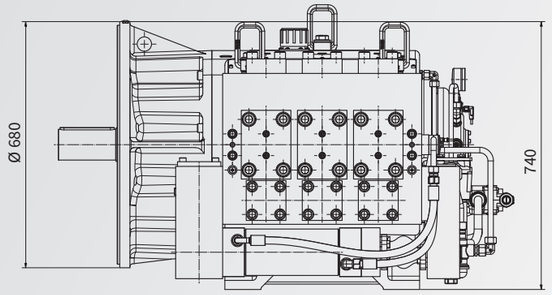
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  300 kW
- **available variations:**
  Stainless steel pumphead cylinder valve design (SZ)
  Stainless steel pumphead plate valve design (SP)

1 kW	= 1.3410 HP	1 bar	= 14.5038 psi
1 kg	= 2.205 lbs	1 l	= 0.26417 Gal.

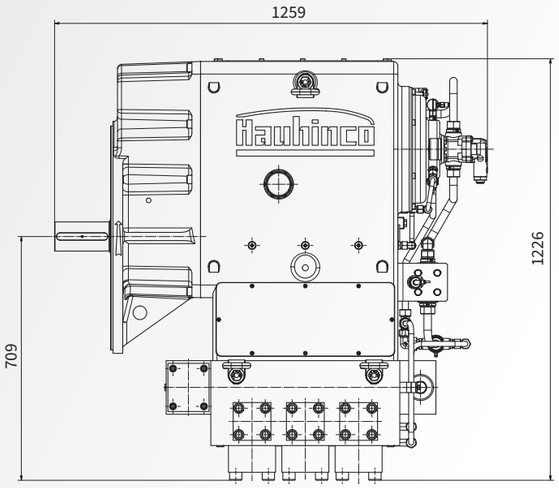
[1] Max. approved operating pressure at the pressure connection pump head.
[2] On Request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 300S

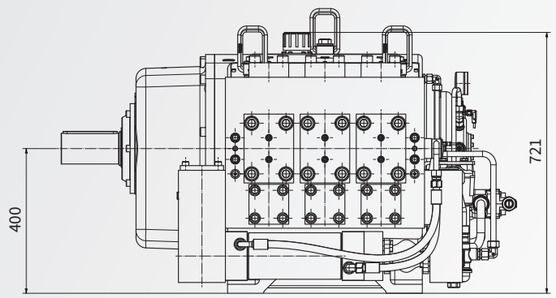
Flange-type, with cylinder valves



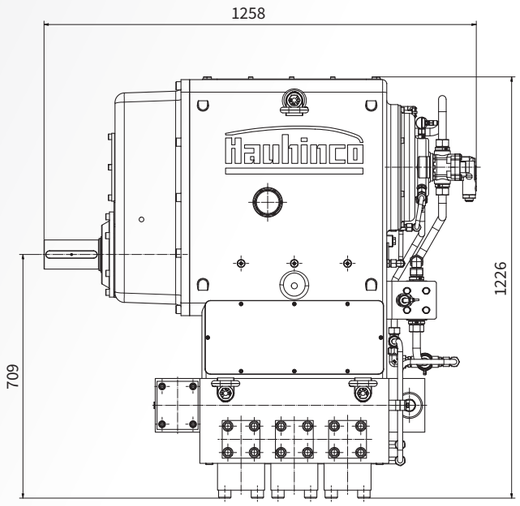
- **Weight[3]**
  1,830 kg



Foot-type, with cylinder valves



- **Weight[3]**
  1,770 kg



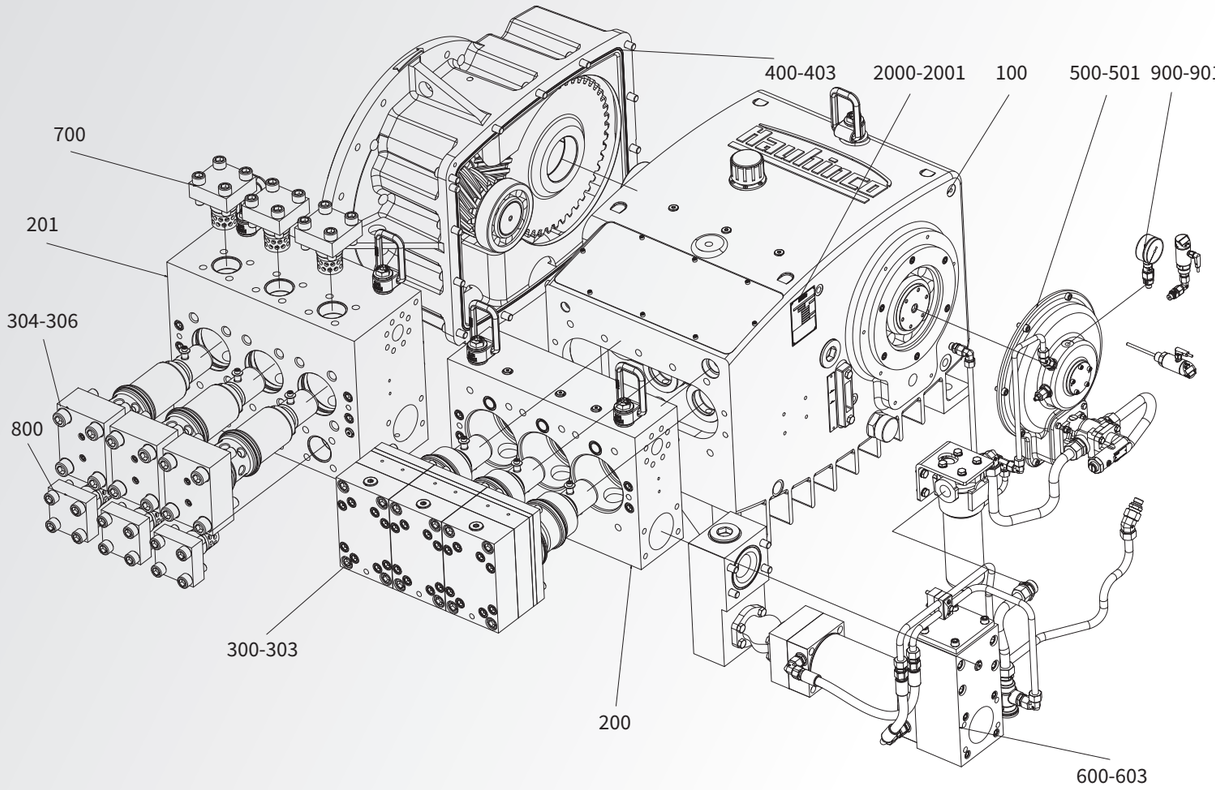
EHP-3K 300S

Pos.	Anz.	Art. - Nr.	Modul	Variante	Erläuterung	Typenschlüssel	
100	1	6603404	Pumpenkörper	EHP-3K300	-	EHP-3K300	1
200	1	6603405	Pumpenkopf Baugruppe	EHP-3K300 SP	Edelstahlkopf, Plattenventiltechnik	SP	2
201	1	6603385	Pumpenkopf Baugruppe	ENP-3K300 SZ	Edelstahlkopf, Zylinderventiltechnik	SZ	
300	3	6604241	Pumpeneinsatz Baugruppe	EHP-3K300 SP D53	Plattenventiltechnik, Plungerdurchmesser 53	53	
301	3	6604208	Pumpeneinsatz Baugruppe	EHP-3K300 SP D57,5	Plattenventiltechnik, Plungerdurchmesser 57,5	57,5	
302	3	6603221	Pumpeneinsatz Baugruppe	EHP-3K300 SP D62	Plattenventiltechnik, Plungerdurchmesser 62	62	3
303	3	-	Pumpeneinsatz Baugruppe	EHP-3K300 SP D70	Plattenventiltechnik, Plungerdurchmesser 70	70	
304	3	6604234	Pumpeneinsatz Baugruppe	EHP-3K300 SZ D53	Zylinderventiltechnik, Plungerdurchmesser 53	53	
305	3	6604223	Pumpeneinsatz Baugruppe	EHP-3K300 SZ D57,5	Zylinderventiltechnik, Plungerdurchmesser 57,5	57,5	
306	3	6604224	Pumpeneinsatz Baugruppe	EHP-3K300 SZ D62	Zylinderventiltechnik, Plungerdurchmesser 62	62	
400	1	6603232	Getriebe	EHP-3K300 FL50	Flanschgetriebekasten, 50Hz	FL50	4
401	1	6603233	Getriebe	EHP-3K300 FL60	Flanschgetriebekasten, 60Hz	FL60	
402	1	6602148	Getriebe	EHP-3K300 FU50	Fußgetriebekasten, 50Hz	FU50	
403	1	6602453	Getriebe	EHP-3K300 FU60	Fußgetriebekasten, 60Hz	FU60	
500	1	6604051	Schmierölvers., intern	EHP-3K300 I0	interner Ölantrieb, Antrieb gegen Uhrzeigersinn	I0	5
501	1	6604050	Schmierölvers., extern	EHP-3K300 E0	externer Ölantrieb, Antrieb gegen Uhrzeigersinn	E0	
600	1	6604202	Ölkühlung	EHP-3K300 RR 0	Rohrbündelkühler, Ansaugung rechts, ohne ATEX	RR	
601	1	6604201	Ölkühlung	EHP-3K300 RL 0	Rohrbündelkühler, Ansaugung links, ohne ATEX	RL	6
602	1	6604231	Ölkühlung	EHP-3K300 RR A	Rohrbündelkühler, Ansaugung rechts, mit ATEX	RR	
603	1	6604230	Ölkühlung	EHP-3K300 RL A	Rohrbündelkühler, Ansaugung links, mit ATEX	RL	
700	3	6602926	Druckventil Baugruppe	EHP-3K300 SZ	Zylinderventiltechnik, Druckventil	(SZ)	
800	3	6602927	Saugventil Baugruppe	EHP-3K300 SZ	Zylinderventiltechnik, Saugventil	(SZ)	
900	1	6602445	Sensorik	EHP-3K300 033	ohne ATEX, Öltemperatursensor, Öldrucksensor	033	7
901	1	6603170	Sensorik	EHP-3K300 A33	mit ATEX, Öltemperatursensor, Öldrucksensor	A33	
1000	77kg	8300488	Mobilgear 600 XP 220	-	Getriebeöl, ISO VG 220	-	
1001	77kg	8301514	Mobilgear 600 XP 150	-	Getriebeöl, ISO VG 150	-	
2000	1	6397131	Typenschild	EHP		-	
2001	4	2061813	Halbrundkerbnagel			-	

Type key example

EHP-3K300	SP	62	FL50	IO	RL	033
1	2	3	4	5	6	7

Triplex Plunger Pump
EHP-3K 300S
Modular design EHP-3K 300S

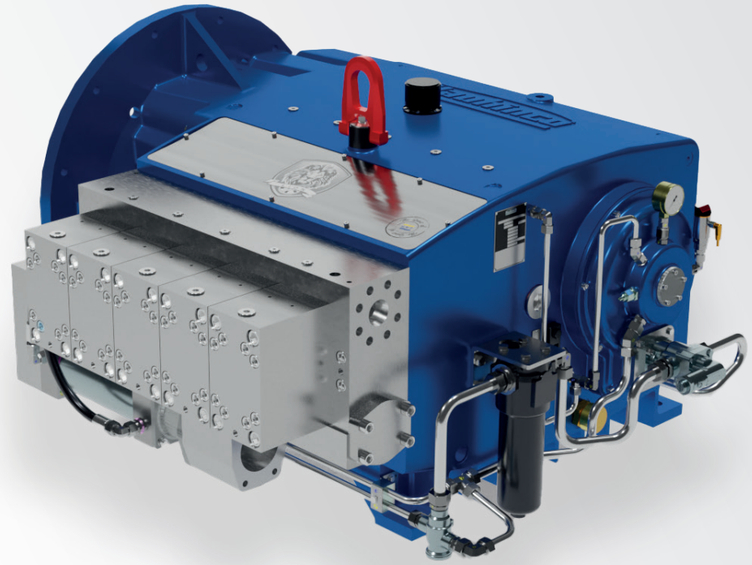


EHP-3K 300S

Quintuplex-Plunger Pump

EHP-5K 400S

Stainless Steel Pumphead, plate valve design (SP)



Technical data

	Input speed 1.500 1/min				Input speed 1.800 1/min	
	Gear ratio 3,067		Gear ratio 3,667		Gear ratio 3,667	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
53	420	539	420	451	420	541
57,5	360	635	360	531	360	637
62	315	738	315	617	315	741
65 [2]	280	811	280	679	280	814
70	240	941	240	787	240	945

max. input speed:
1,500 / 1,800 1/min

max. input power:
400 kW

available variations:
Stainless steel pumphead plate valve design (SP)
Stainless steel pumphead cylinder valve design (SZ)

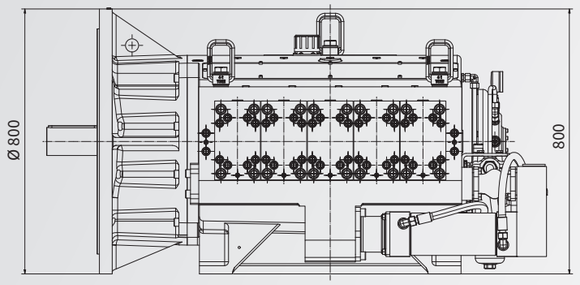
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

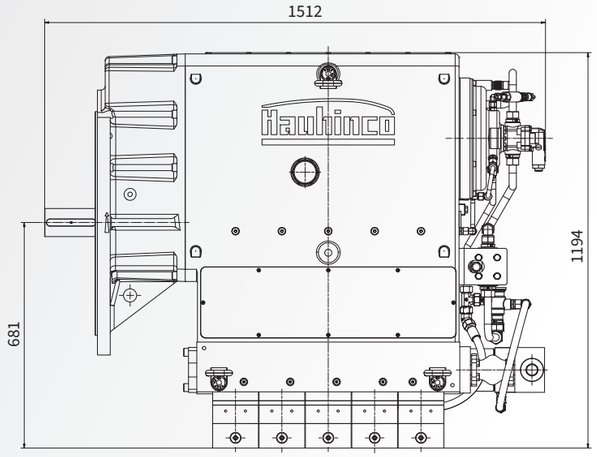
[1] Max. approved operating pressure at the pressure connection pump head.
[2] On Request.
[3] The weight specifications apply for pumps without any attachment parts.

Quintuplex-Plunger Pump

EHP-5K 400S

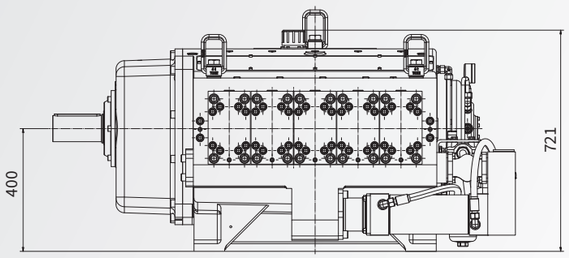
Flange-type, with plate valves

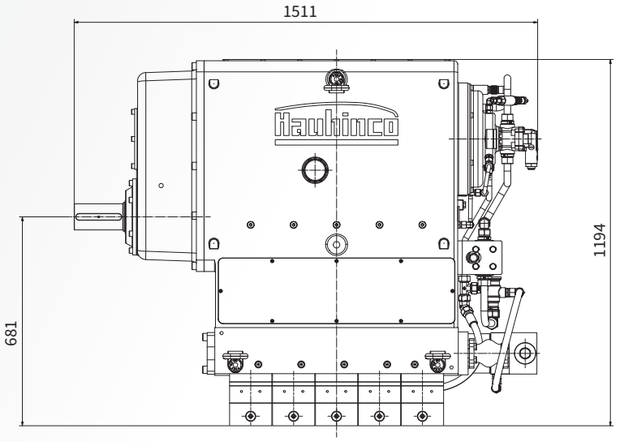




Weight[3]
2,200 kg

Foot-type, with plate valves



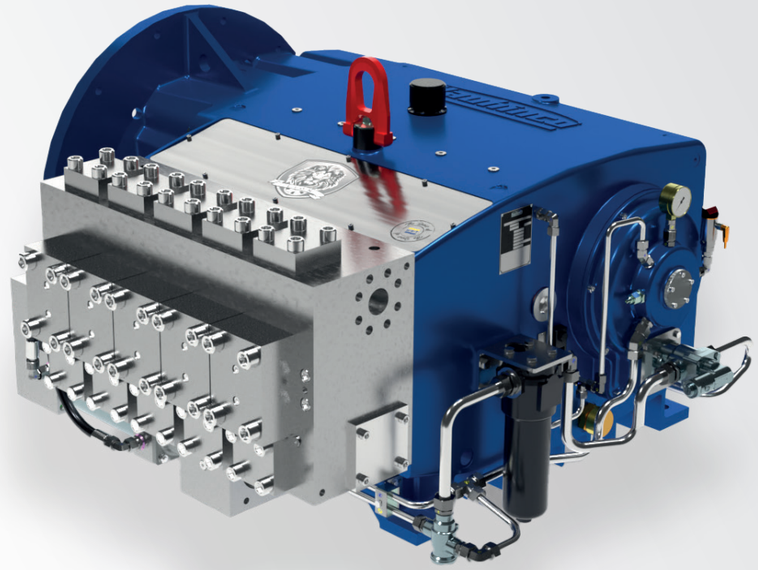


Weight[3]
2,040 kg

EHP-5K 400S

EHP-5K 400S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

Type	Plunger-diameter	Input speed 1.500 1/min				Input speed 1.800 1/min	
		Gear ratio 3,067		Gear ratio 3,667		Gear ratio 3,667	
		max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
	mm	bar	dm³/min	bar	dm³/min	bar	dm³/min
HD	53	420	539	420	451	420	541
	57,5	360	635	360	531	360	637
	62	315	738	315	617	315	741
	65 [2]	280	811	280	679	280	814
ND	70 [2]	240	941	240	787	240	945
	80	180	1229	180	1028	180	1234

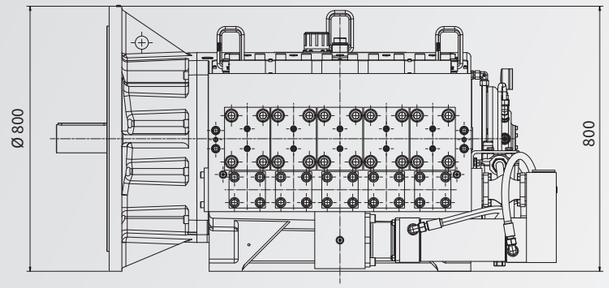
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  400 kW
- **available variations:**
  Stainless steel pumphead plate valve design (SP)
  Stainless steel pumphead cylinder valve design (SZ)

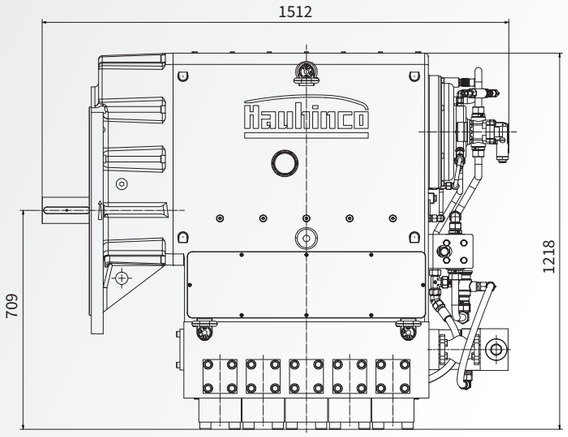
1 kW	= 1.3410 HP	**1 bar**	= 14.5038 psi
1 kg	= 2.205 lbs	**1 l**	= 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] On Request.
[3] The weight specifications apply for pumps without any attachment parts.

EHP-5K 400S

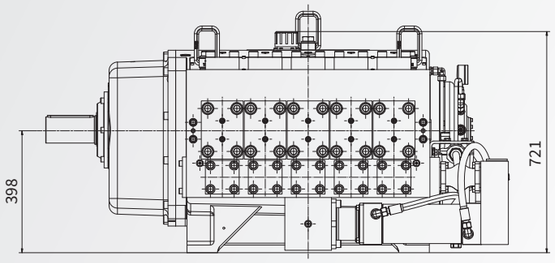
Flange-type, with cylinder valves

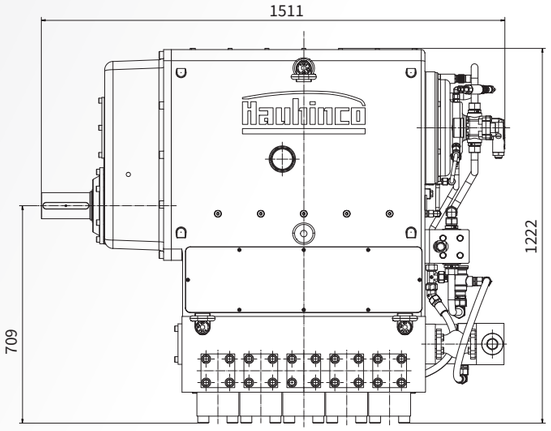




- **Weight**[3]
  2,420 kg

Foot-type, with cylinder valves





- **Weight**[3]
  2,260 kg

EHP-5K 400S

Modular design EHP-5K 400S

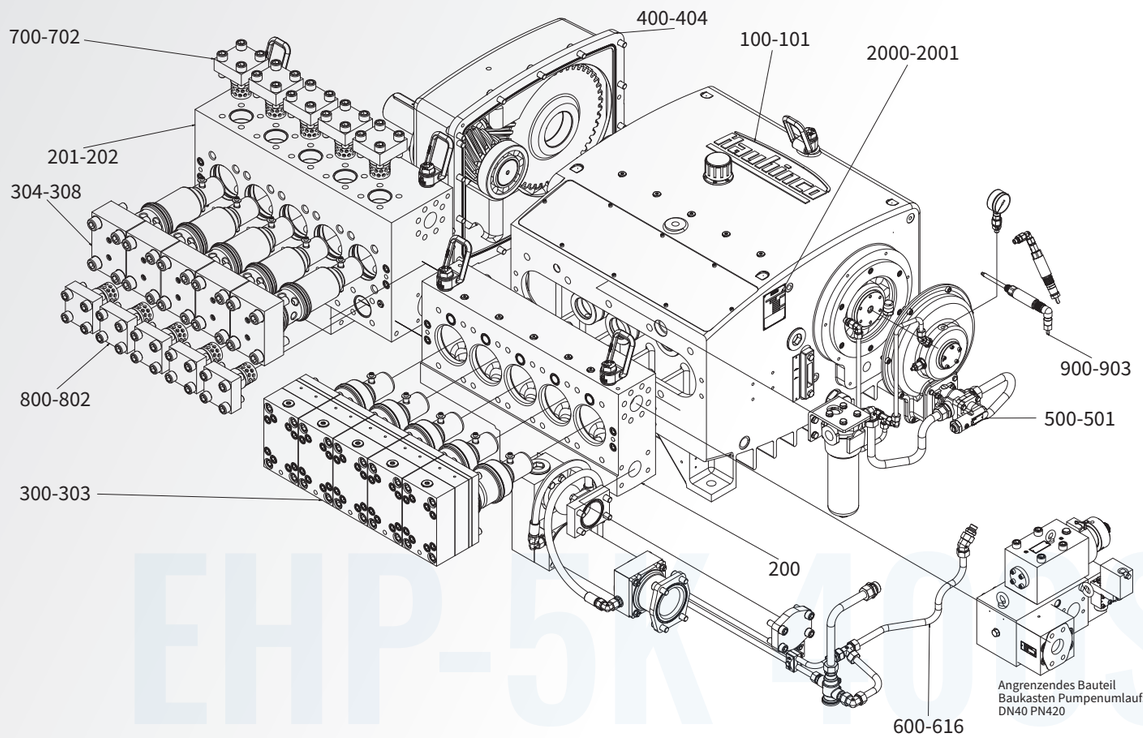
Pos.	Anz.	Art.- Nr.	Modul	Variante	Erläuterung	Typenschlüssel	
100	1	6602149	Pumpenkörper	EHP-5K400	-	EHP-5K400	1
101	1	6604005	Pumpenkörper	EHP-5K400	mit Lagertemperatursensorbohrungen	EHP-5K400	
200	1	6602150	Pumpenkopf Baugruppe	EHP-5K400 SP	Edelstahlkopf, Plattenventiltechnik	SP	2
201	1	6602472	Pumpenkopf Baugruppe	EHP-5K400 SZ	Edelstahlkopf, Zylinderventiltechnik (D53-62)	SZ	
202	1	6603580	Pumpenkopf Baugruppe	EHP-5K400 SZ	Edelstahlkopf, Zylinderventiltechnik (D70-80)	SZ	
300	5	6602922	Pumpeneinsatz Baugruppe	EHP-5K400 SP D53	Plattenventiltechnik, Plungerdurchmesser 53	53	
301	5	6602401	Pumpeneinsatz Baugruppe	EHP-5K400 SP D57,5	Plattenventiltechnik, Plungerdurchmesser 57,5	57,5	3
302	5	6602219	Pumpeneinsatz Baugruppe	EHP-5K400 SP D62	Plattenventiltechnik, Plungerdurchmesser 62	62	
303	5	6603173	Pumpeneinsatz Baugruppe	EHP-5K400 SP D70	Plattenventiltechnik, Plungerdurchmesser 70	70	
304	5	6604234	Pumpeneinsatz Baugruppe	EHP-5K400 SZ D53	Zylinderventiltechnik, Plungerdurchmesser 53	53	
305	5	6604223	Pumpeneinsatz Baugruppe	EHP-5K400 SZ D57,5	Zylinderventiltechnik, Plungerdurchmesser 57,5	57,5	
306	5	6604224	Pumpeneinsatz Baugruppe	EHP-5K400 SZ D62	Zylinderventiltechnik, Plungerdurchmesser 62	62	
307	5	-	Pumpeneinsatz Baugruppe	EHP-5K400 SZ D70	Zylinderventiltechnik, Plungerdurchmesser 70	70	
308	5	6603590	Pumpeneinsatz Baugruppe	EHP-5K400 SZ D80	Zylinderventiltechnik, Plungerdurchmesser 80	80	
400	1	6602148	Getriebe	EHP-5K400 FU50	Fußgetriebekasten, 50 Hz	FU50	4
401	1	6602447	Getriebe	EHP-5K400 FL50	Flanschgetriebekasten, 50 Hz	FL50	
402	1	6602453	Getriebe	EHP-5K400 FU60	Fußgetriebekasten, 60 Hz	FU60	
403	1	6602456	Getriebe	EHP-5K400 FL60	Flanschgetriebekasten, 60 Hz	FL60	
404	1	6604003	Getriebe	EHP-5K400 FL60	Flanschgetriebekasten, 60 Hz, mit Lagertemperatursensorbohrungen	FL60	
500	1	6604051	Schmierölvers., intern	EHP-5K400 I0	interner Ölantrieb, Antrieb gegen Uhrzeigersinn	I0	5
501	1	6604050	Schmierölvers., intern	EHP-5K400 E0	externer Ölantrieb, Antrieb gegen Uhrzeigersinn	E0	
600	1	6604038	Ölkühlung	EHP-5K400 SPRR 0	Plattenventiltechnik, Rohrbündelkühler, Ansaugung rechts, ohne Atex	RR0	6
601	1	6604034	Ölkühlung	EHP-5K400 SZRR 0	Zylinderventiltechnik, Rohrbündelkühler, Ansaugung rechts, ohne Atex	RR0	
602	1	6604039	Ölkühlung	EHP-5K400 SPRL 0	Plattenventiltechnik, Rohrbündelkühler, Ansaugung links, ohne Atex	RL0	
603	1	6604040	Ölkühlung	EHP-5K400 SZRL 0	Zylinderventiltechnik, Rohrbündelkühler, Ansaugung links, ohne Atex	RL0	
605	1	6604263	Ölkühlung	EHP-5K400 SZRR A	Zylinderventiltechnik, Rohrbündelkühler, Ansaugung rechts, mit Atex	RRA	
608	1	6603646	Ölkühlung	EHP-5K400 SZ0	ohne Ölkühlung, Zylinderventiltechnik	0	
615	1	6604054	Ölkühlung	EHP-5K400 SZW 0	Wasser/ Öl-Wärmetauscher, Zylinderventiltechnik, ohne Atex, (D70-80)	W	

Type key example

EHP-5K400	SP	57,5	FU50	IO	RR	033
1	2	3	4	5	6	7

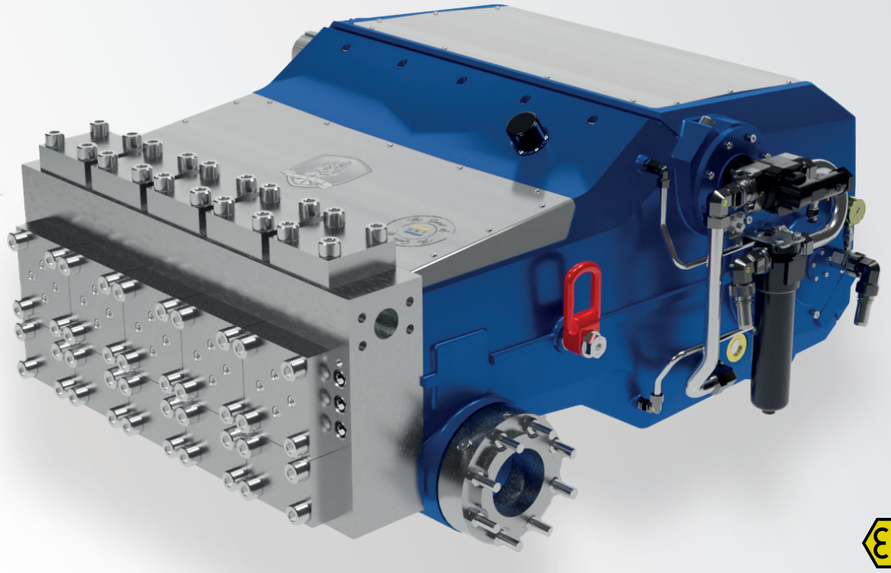
Modular design EHP-5K 400S

Pos.	Anz.	Art.- Nr.	Modul	Variante	Erläuterung	Typenschlüssel	
616	1	6604023	Ölkühlung	EHP-5K400 SZW A	Wasser/ Öl-Wärmetauscher, Zylinderventiltechnik, mit Atex (D70-80)	W	
700	5	6602926	Druckventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, Druckventil (D53-62)	(SZ)	
701	5	-	Druckventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, Druckventil, Edelstahlbuchse (D53-62)	(SZ)	
702	5	6603583	Druckventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, Druckventil (D70-80)	(SZ)	
800	5	6602927	Saugventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, SAUGEVENTIL (D53-62)	(SZ)	
801	5	-	Saugventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, SAUGEVENTIL, Edelstahlbuchse (D53-62)	(SZ)	
802	5	6603581	Saugventil Baugruppe	EHP-5K400 SZ	Zylinderventiltechnik, SAUGEVENTIL (D70-80)	(SZ)	
900	1	6602445	Sensorik	EHP-5K400 033	ohne Atex, Öltemperatursensor, Öldrucksensor	033	7
901	1	6603170	Sensorik	EHP-5K400 A33	mit Atex, Öltemperatursensor, Öldrucksensor	A33	
902	1	-	Sensorik	EHP-5K400 011	ohne Atex, Öltemperaturschalter, Öldruckschalter	011	
903	1	-	Sensorik	EHP-5K400 A11	mit Atex, Öltemperaturschalter, Öldruckschalter	A11	
1000	108 kg	8300488	Mobilgear 600 XP 220	-	Getriebeöl, ISO VG 220	-	
1001	108 kg	8301514	Mobilgear 600 XP 150	-	Getriebeöl, ISO VG 150	-	
2000	1	6397131	Typenschild	EHP		-	
2001	4	2061813	Halbrundkerbnagel	-		-	



EHP-5K 850S

Stainless Steel Pumphead, cylinder valve design (SZ)



Technical data

	Input speed 1.500 1/min		Input speed 1.800 1/min	
	Gear ratio 3,346		Gear ratio 3,346	
Plunger-diameter	max. Operating pressure[1]	Flow rate	max. Operating pressure[1]	Flow rate
mm	bar	dm³/min	bar	dm³/min
62	420	947	420	1137
66	420	1074	375	1288
68,5	420	1156	350	1388
72,5	375	1295	310	1555
78,5	320	1519	265	1823
85	270	1781	230	2137

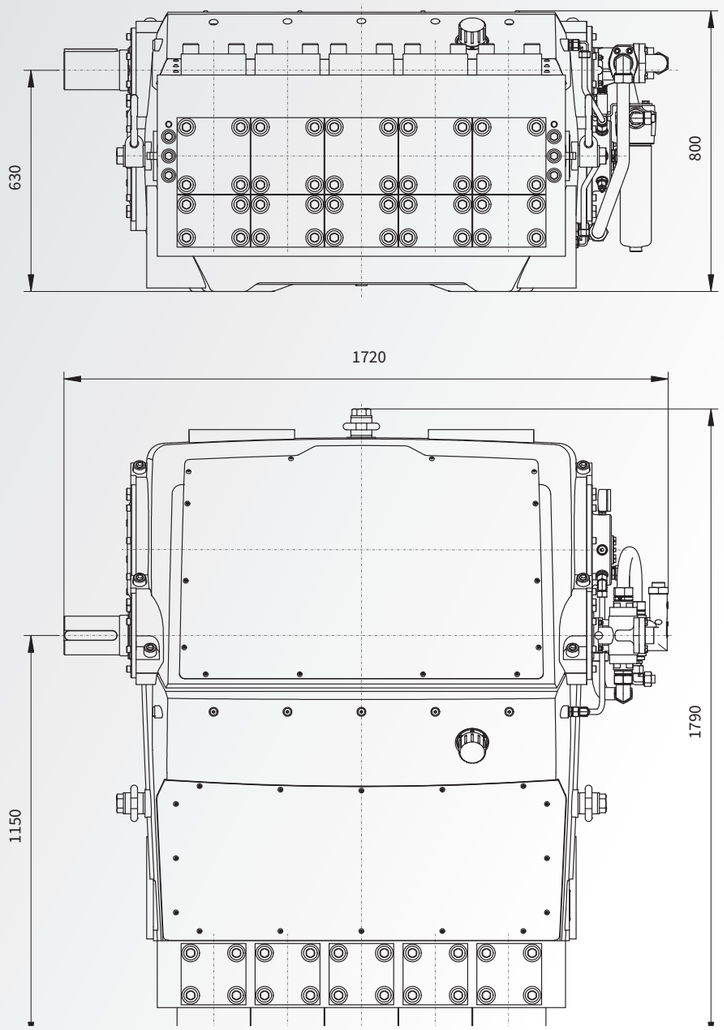
- **max. input speed:**
  1,500 / 1,800 1/min
- **max. input power:**
  855 kW
- **available variations:**
  Stainless steel pumphead cylinder valve design (SZ)

1 kW = 1.3410 HP **1 bar** = 14.5038 psi
1 kg = 2.205 lbs **1 l** = 0.26417 Gal.

[1] Max. approved operating pressure at the pressure connection pump head.
[2] The weight specifications apply for pumps without any attachment parts.

EHP-5K 850S

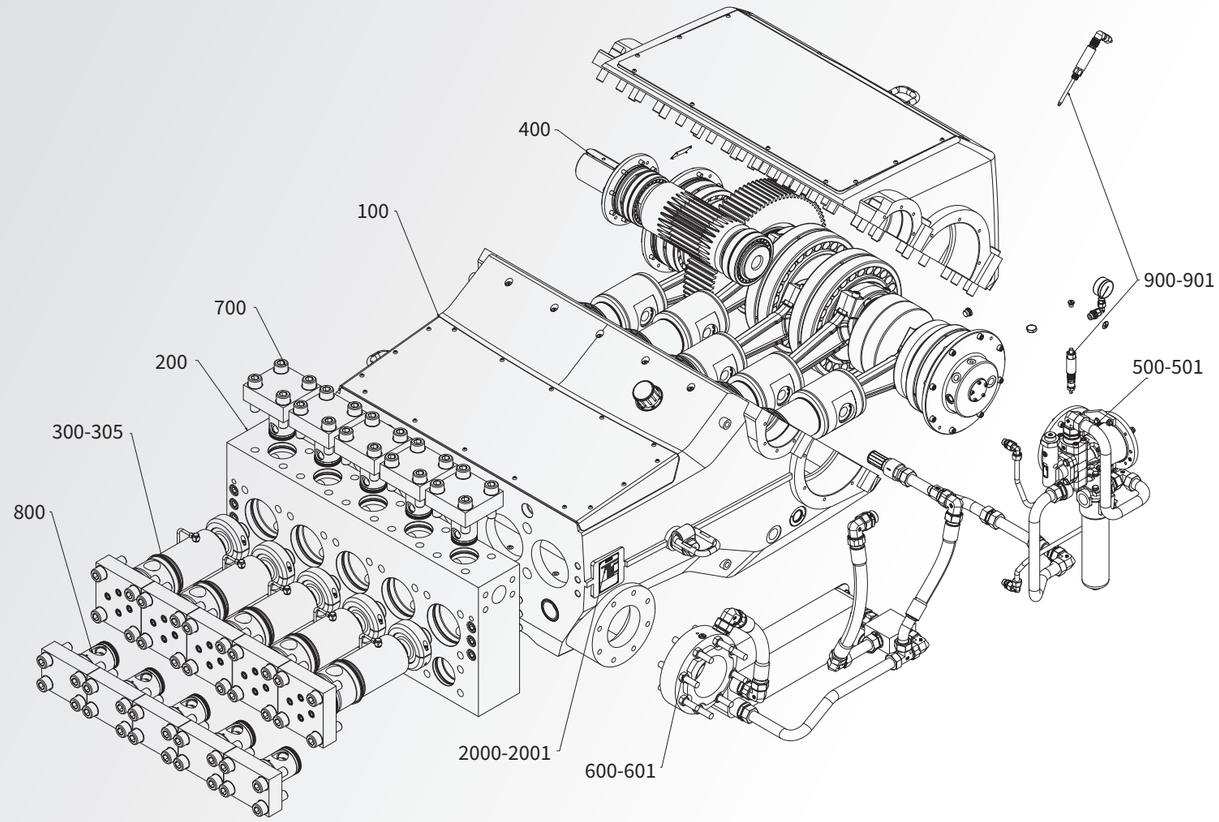
Foot-type, with cylinder valves



- **Weight**[2]
  4,380 kg

EHP-5K 850S

Position	Anzahl	Art.-Nr.	Modul	Variante	Erläuterung	Typenschlüssel	
100	1	6603149	Pumpenkörper	EHP-5K850	-	EHP-5K850	1
200	1	6603150	Pumpenkopf Baugruppe	EHP-5K850 SZ	Edelstahlkopf, Zylinderventiltechnik	SZ	2
300	5	6604302	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D62	Zylinderventiltechnik, Plungerdurchmesser 62	62	
301	5	6603303	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D66	Zylinderventiltechnik, Plungerdurchmesser 66	66	
302	5	6603463	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D68,5	Zylinderventiltechnik, Plungerdurchmesser 68,5	68,5	3
303	5	6602621	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D72,5	Zylinderventiltechnik, Plungerdurchmesser 72,5	72,5	
304	5	6603620	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D78,5	Zylinderventiltechnik, Plungerdurchmesser 78,5	78,5	
305	5	6603665	Pumpeneinsatz Baugruppe	EHP-5K850 SZ D85	Zylinderventiltechnik, Plungerdurchmesser 85	85	
400	1	6603984	Getriebe	EHP-5K850 FU50	Getriebe	FU50	4
500	1	6603187	Schmierölvers. intern	EHP-5K850 ICR	interner Ölantrieb, Antrieb im Uhrzeigersinn	ICR	
501	1	6603484	Schmierölvers. extern	EHP-5K850 ECR	externer Ölantrieb, Antrieb im Uhrzeigersinn	ECR	5
600	1	6603180	Ölkühlung	EHP-5K850 SZW 0	Wasser/ Öl-Wärmetauscher, ohne ATEX	SZW 0	
601	1	6603633	Ölkühlung	EHP-5K850 SZW A	Wasser/ Öl-Wärmetauscher, mit ATEX	SZW A	6
700	5	6602749	Druckventil Baugruppe	EHP-5K850 SZ	Zylinderventiltechnik, Druckventil	SZ	
800	5	6602748	Saugventil Baugruppe	EHP-5K850 SZ	Zylinderventiltechnik, Saugventil	SZ	
900	1	6603339	Sensorik	EHP-5K850 033	ohne ATEX, Öltemperatursensor, Öldrucksensor	033	
901	1	6603167	Sensorik	EHP-5K850 A33	mit ATEX, Öltemperatursensor, Öldrucksensor	A33	7
1000	95kg	8300488	Mobilgear 600 XP 220	-	Getriebeöl, ISO VG 220	-	
2000	1	6397131	Typenschild	EHP	-	-	
2001	4	2061813	Halbrundkerbnagel	-	-	-	
3000	1	6603712	Werkzeug	EHP-5K850	Montage- und Demontagewerkzeuge	-	



Type key example

EHP-5K850	SZ	68,5	FU50	ECR	W	A	33
1	2	3	4	5	6		7

EHP-5K 850S

Hauhinco

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