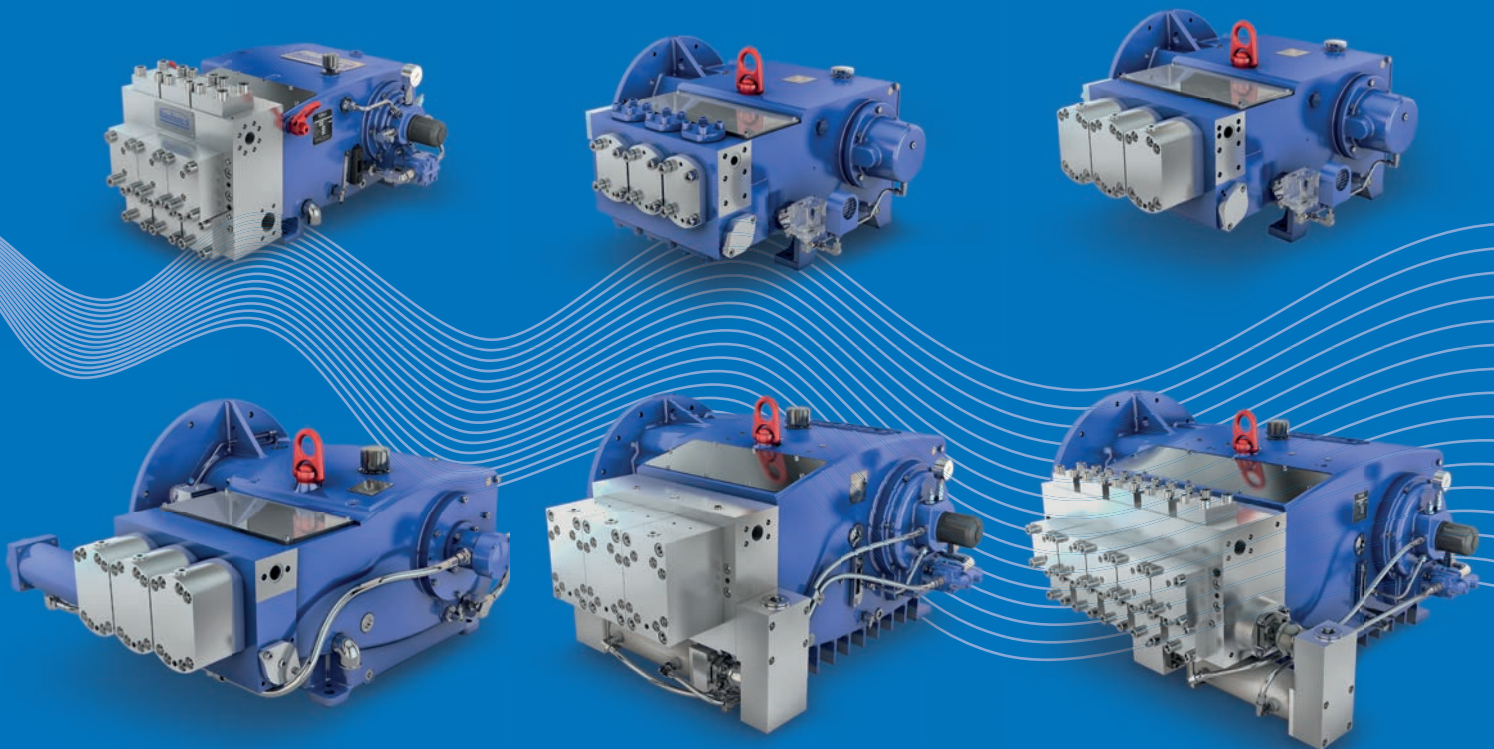


High Pressure Plunger Pumps for continuous operation

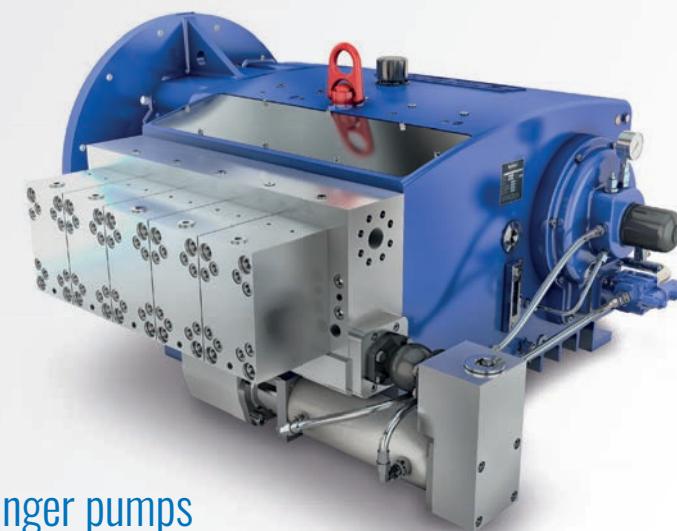


Contents

Hauhinco High Pressure Pumps	3
EHP-3K 75	4
EHP-3K 110	6
EHP-3K 125, 150	8
EHP-3K 125S, 150S	10
Hauhinco quality is your market advantage	12
EHP-3K 200	14
EHP-3K 200S	16
EHP-3K 300S	18
EHP-5K 400S with plate valve design	20
EHP-5K 400S with cylinder valve design	22
EHP-5K 850	24

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 50 - 738 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 mm²/s

Key data at a glance

- Flow rate up to 2109 dm³/min
- Operating pressures up to 575 bar
- Drive powers up to 855 KW

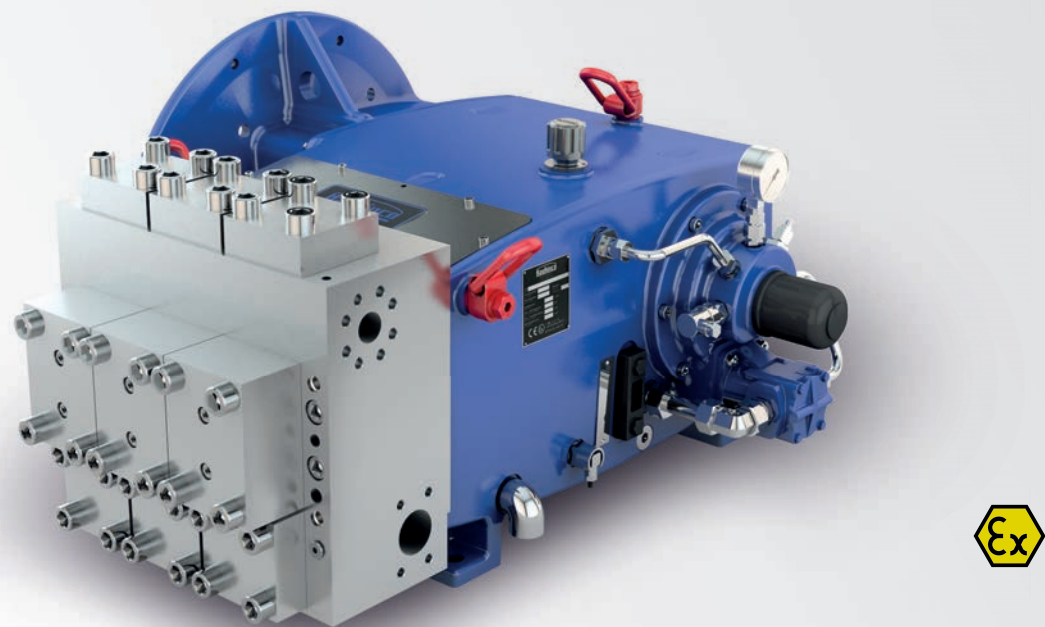
Range of Applications

- 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.

Triplex Plunger Pump

EHP-3K 75



Technical data

Type	Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[1]	Crankshaft speed	
		Input speed 1,500 1/min	Input speed 1,800 1/min		1,500 1/min	1,800 1/min
HD	mm			bar		
	25	42	50	500		
	32	69	82	500		
	36	87	104	400	474	568
ND	40	107	129	320		
	50	167	201	210		
	57,5	221	266	160	474	568
	57,5	278	-	160	594	

- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
75 kW

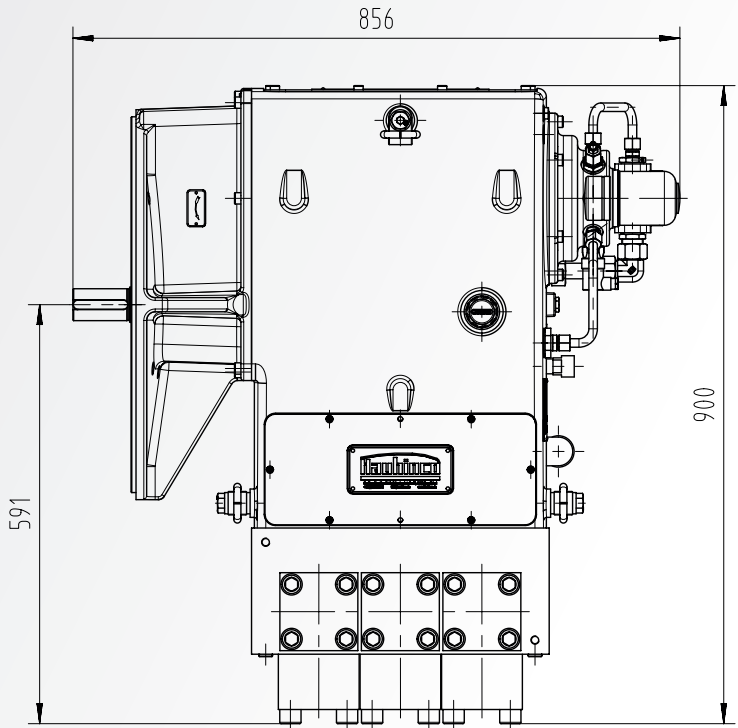
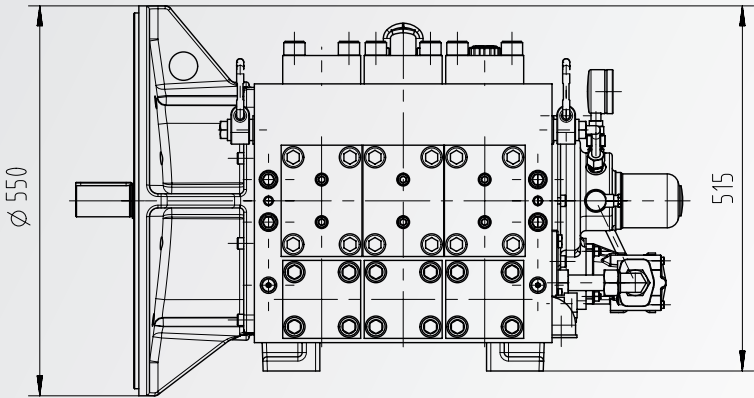
1 kW = 1.3410 HP 1 bar = 14.5038 psi
1 kg = 2.205 lbs 1 l = 0.26417 Gal.

- Weight^[2]
660 kg

Triplex Plunger Pump

EHP-3K 75

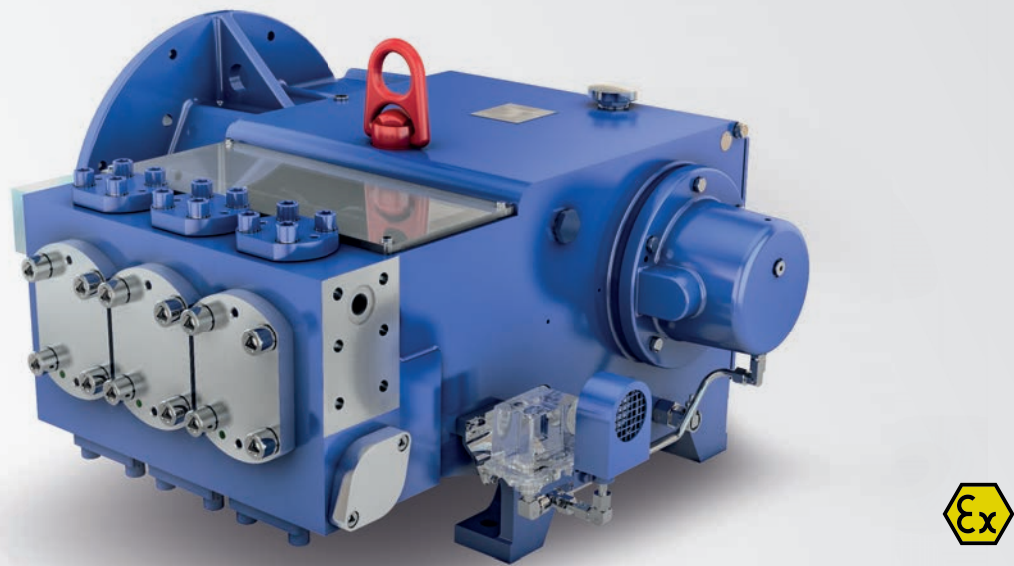
Flange-type



EHP-3K 75

^[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



Technical data

Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
36	105	103	575
40	129	127	465
45	163	161	365

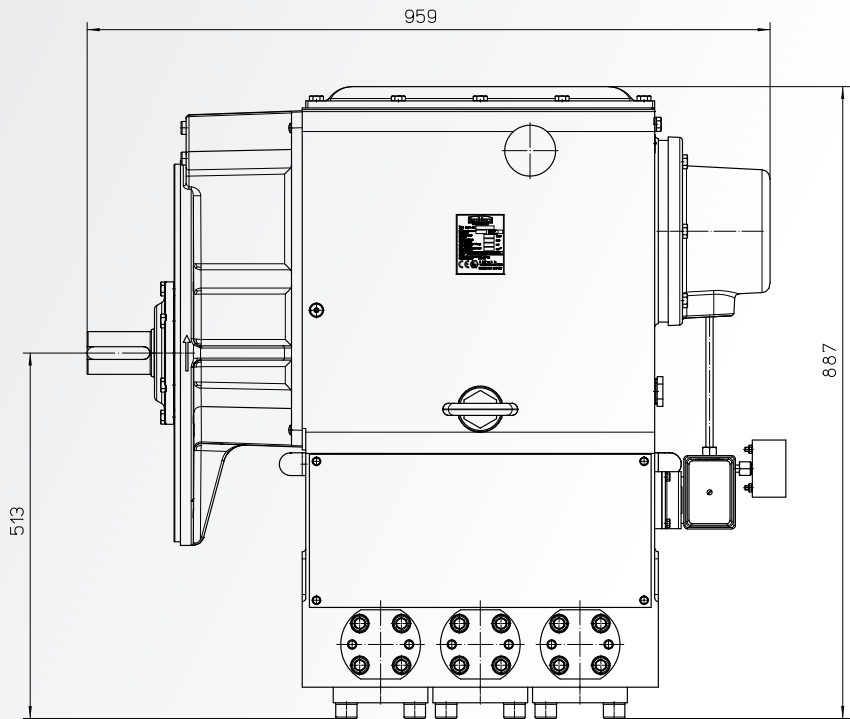
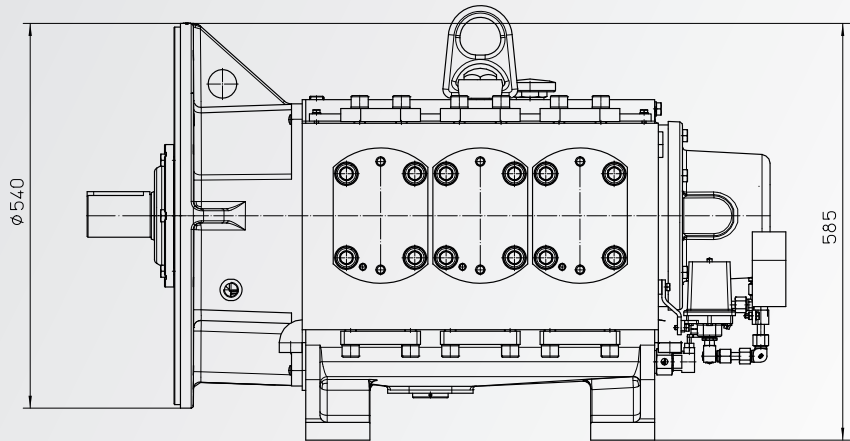
- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
110 kW

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

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

Triplex Plunger Pump
EHP-3K 110

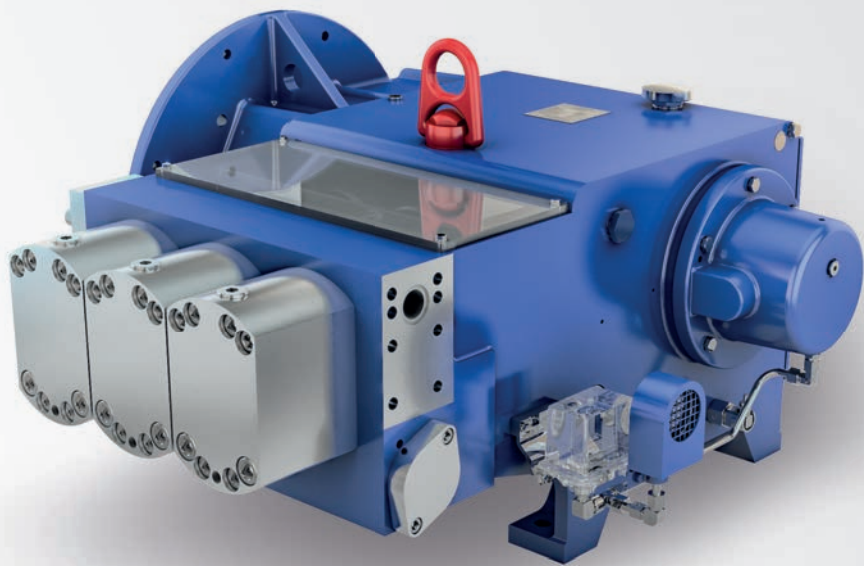
Flange-type



■ Weight^[3]
620 kg

EHP-3K 110

EHP-3K 125, 150



Technical data

Pumpentyp	Plunger diameter	Flow rate Q _{th} dm ³ /min		max. Operating pressure ^[2]
		Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
EHP-3K 125	mm			bar
	50	202	199	340
	53	227	223	300
	55	244	241	280
	62	310	306	220
	70	395	390	170
EHP-3K 150	80	516	509	130
	50	242	239	340
	53	272	268	300
	55	293	289	280
	62	372	367	220
	70	474	468	170
	80	619	611	130

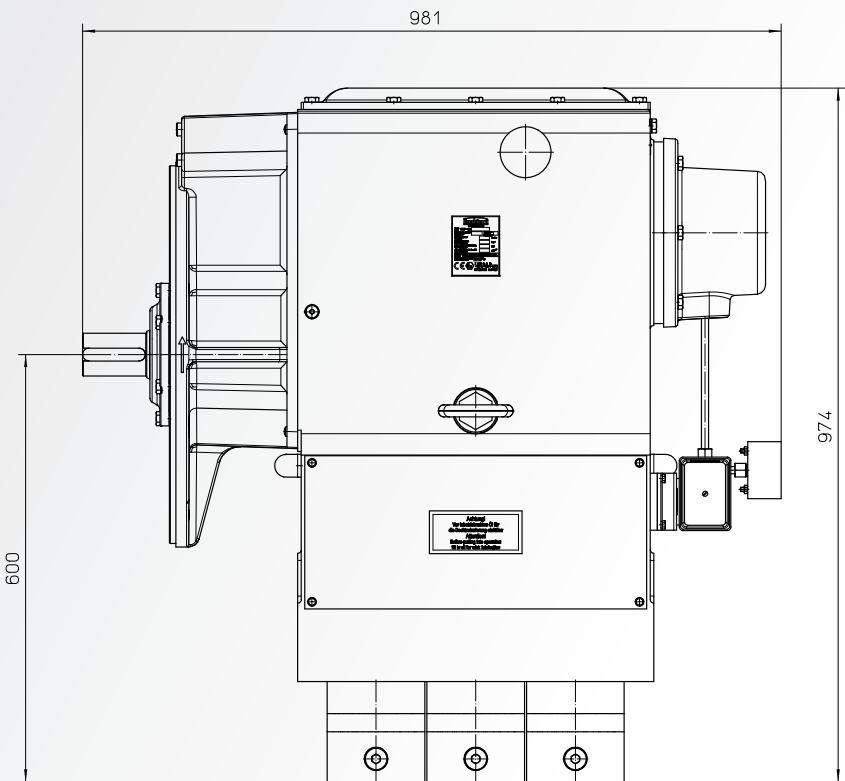
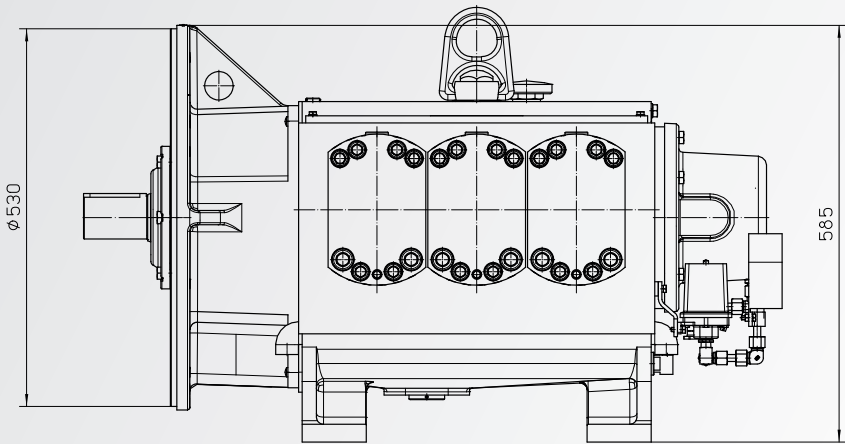
- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
125 bzw. 150 kW

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

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 125, 150

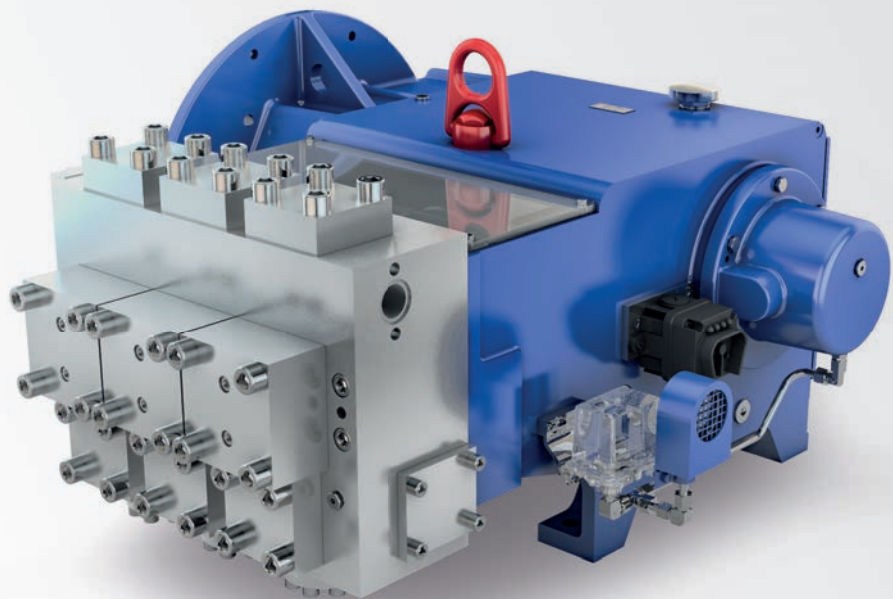
Flange-type



■ Weight^[3]
650 kg

EHP-3K 125, 150

EHP-3K 125S, 150S



Technical data

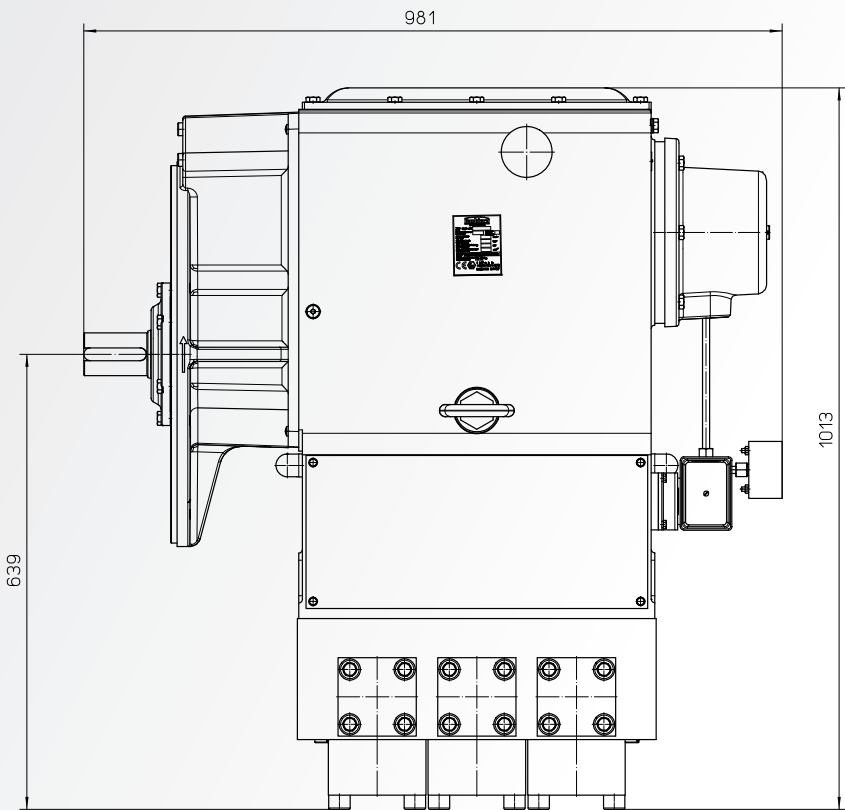
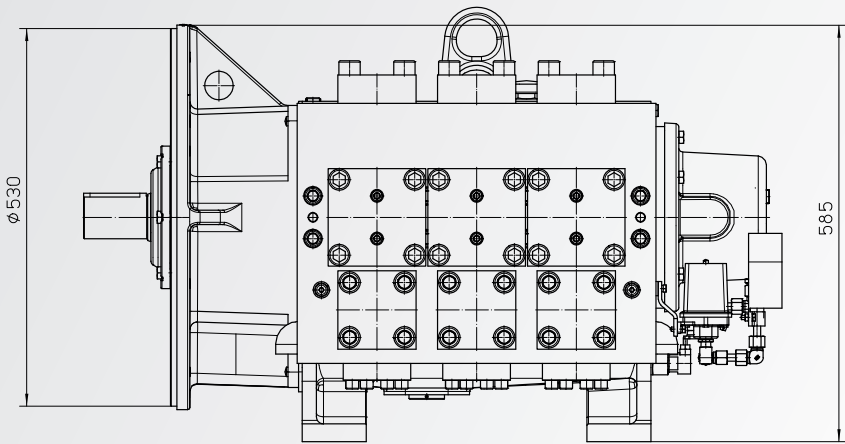
Type	Plunger diameter	Flow rate Q _{th} dm ³ /min		max. Operating pressure ^[2]
		Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
EHP-3K 125S	mm			bar
	50	202	199	340
	55	244	241	280
EHP-3K 150S	62	310	306	220
	50	242	239	340
	55	293	289	280
	62	372	367	220

- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
125 bzw. 150 kW

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

EHP-3K 125S, 150S

Flange-type



■ Weight^[3]
782 kg

EHP-3K 125S, 150S

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

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 station, 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.

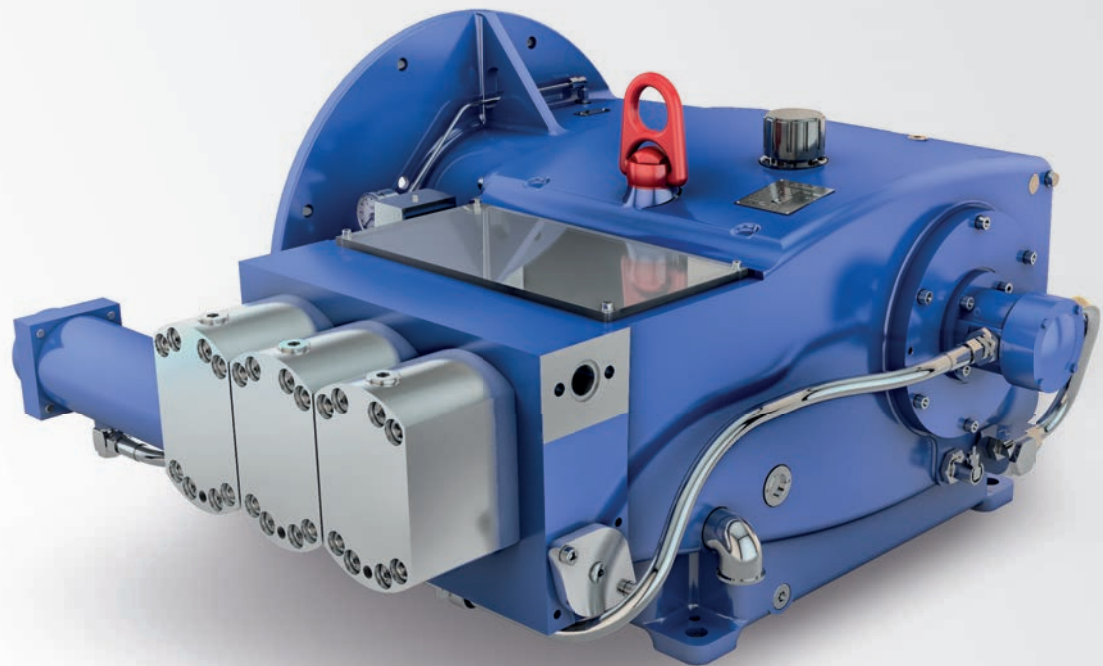
Quality management systems and certifications are the basis of sustainable business success. The entire value-added chain is therefore characterised by a high demand for quality.

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.

EHP-3K 200



Technical data

Plunger diameter	Flow rate Q _{th} dm³/min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
50	275	274	400
53	309	308	360
55	333	332	330
57,5	364	363	300
62	423	422	260
70 ^[3]	539	538	200
80 ^[3]	704	702	160

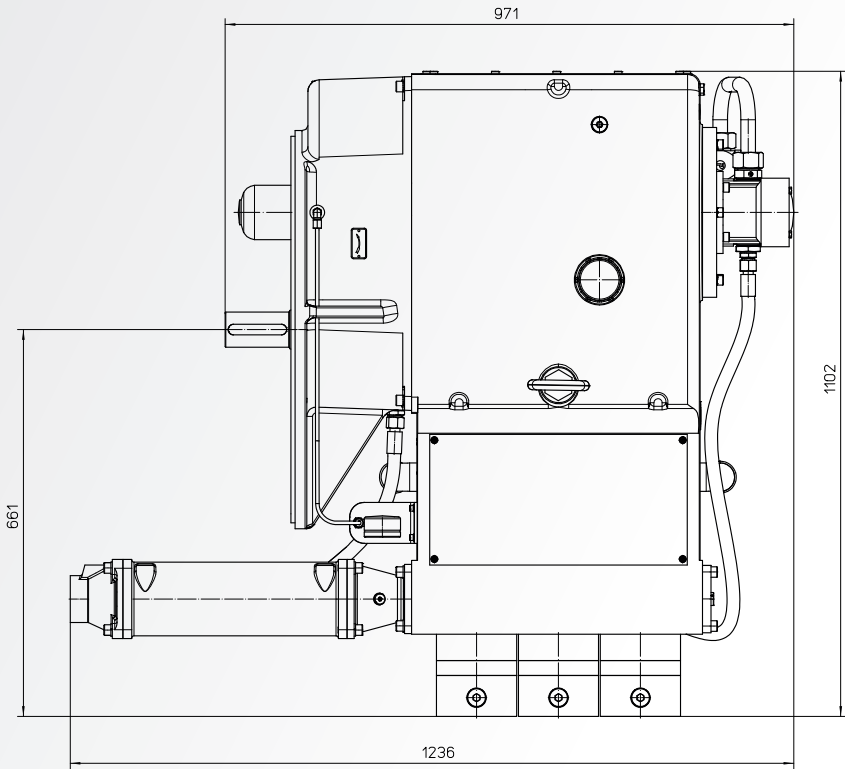
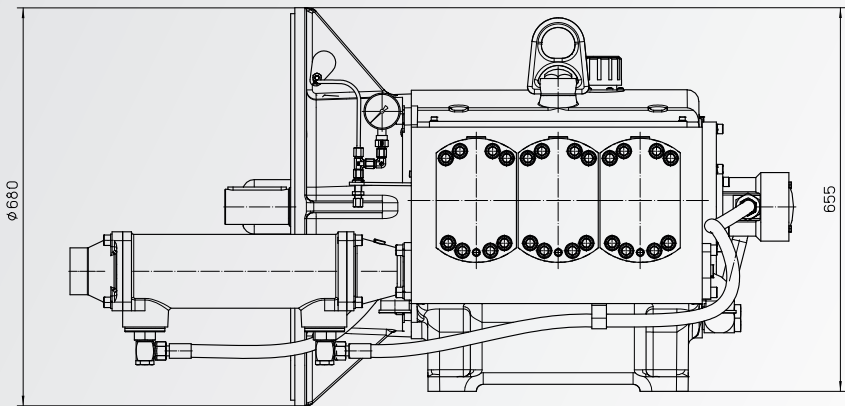
- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
200 kW

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

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] Only available as steel head design with plate valves.
^[4] The weight specifications apply for pumps without any attachment parts.

EHP-3K 200

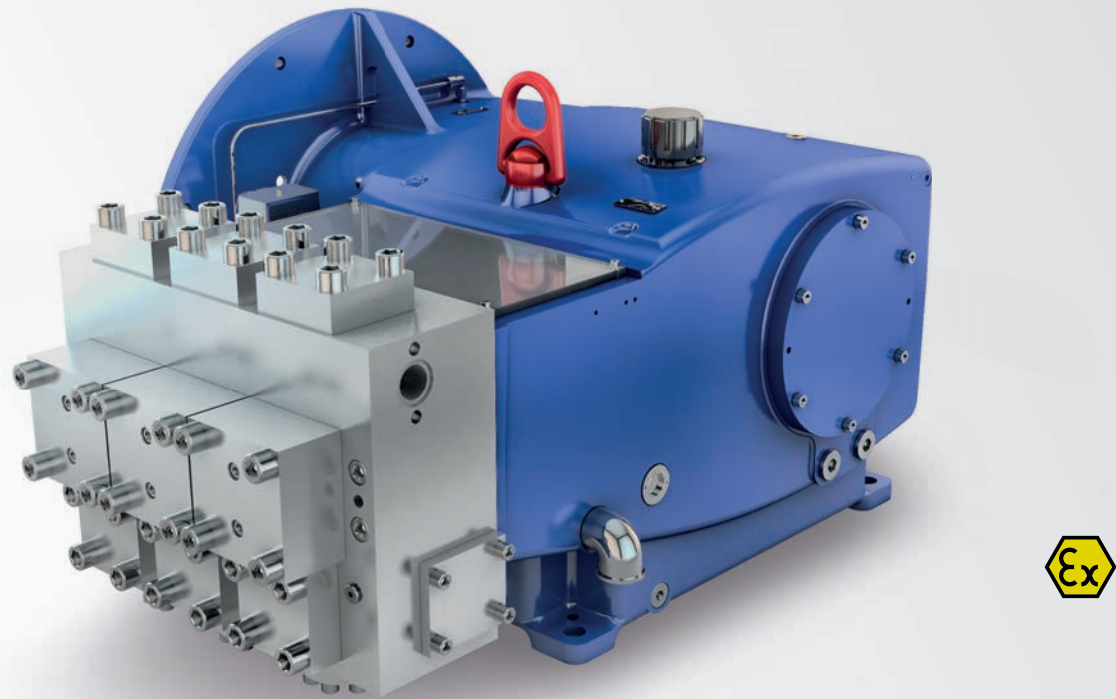
Flange-type



- Weight^[4]
830 kg

EHP-3K 200

EHP-3K 200S



Technical data

Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
50	275	274	400
53	309	308	360
55	333	332	330
57,5	364	363	300
62	423	422	260

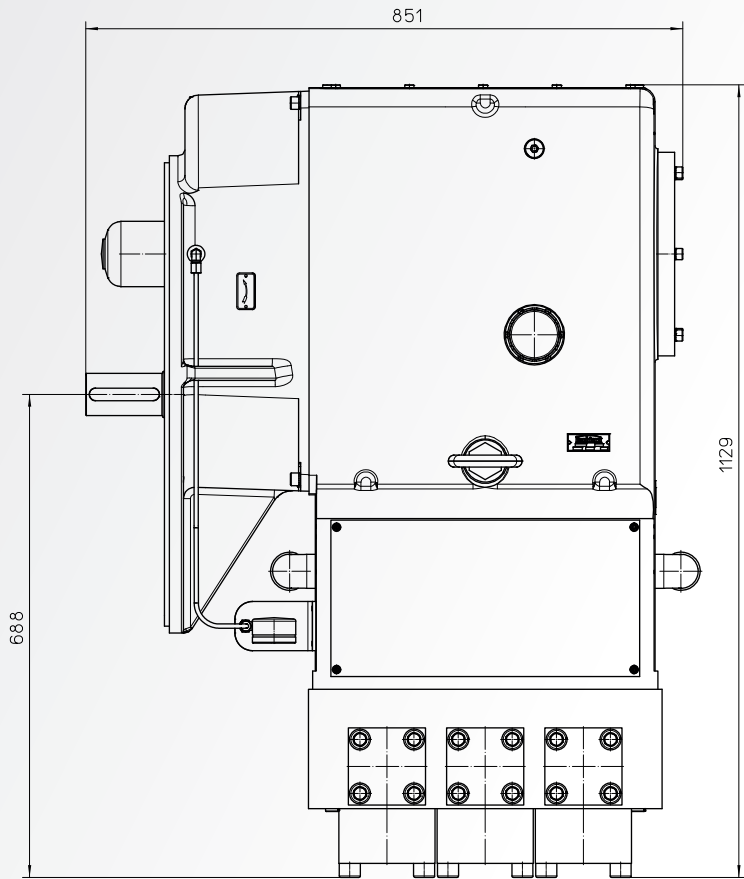
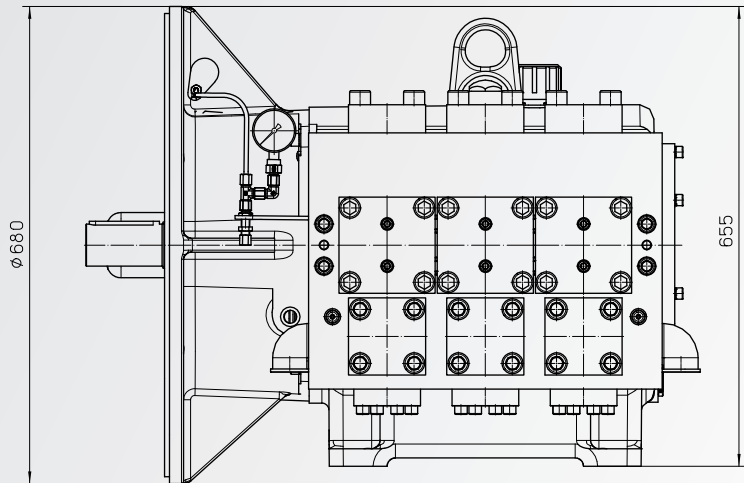
- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
200 kW

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

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

EHP-3K 200S

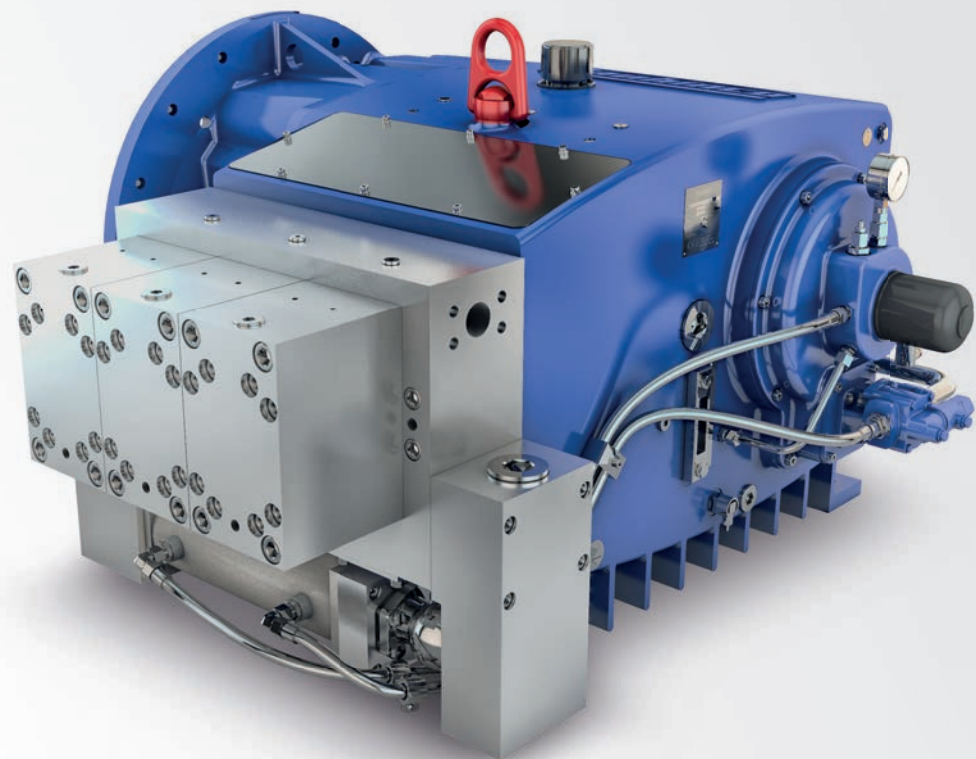
Flange-type



- Weight^[3]
897 kg

EHP-3K 200S

EHP-3K 300S



Technical data

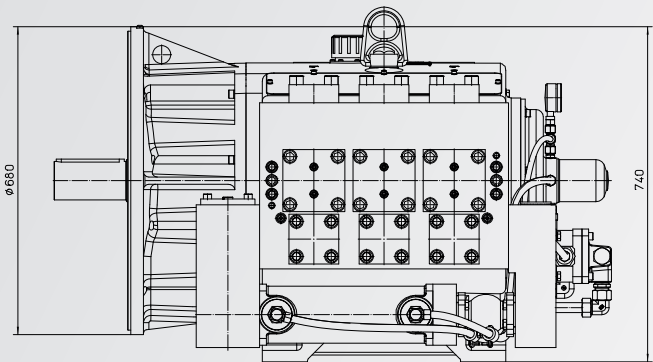
Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
53	324	326	500
57,5	381	383	420
62	443	445	380
70	564	568	290

- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
300 kW

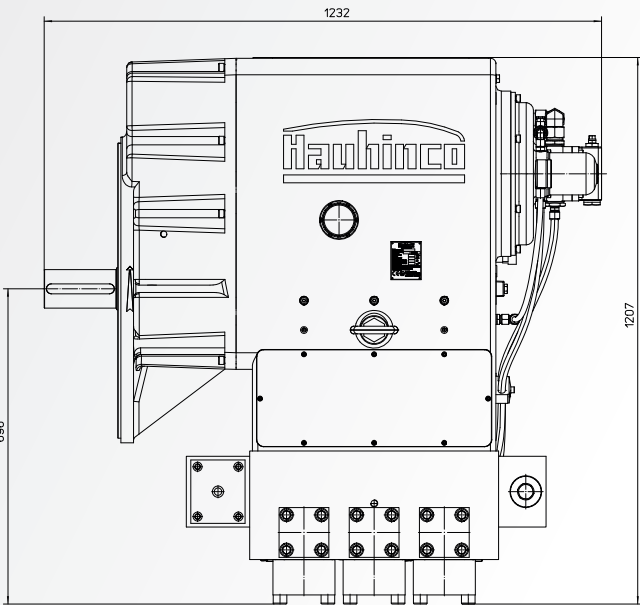
1 kW = 1.3410 HP 1 bar = 14.5038 psi
1 kg = 2.205 lbs 1 l = 0.26417 Gal.

EHP-3K 300S

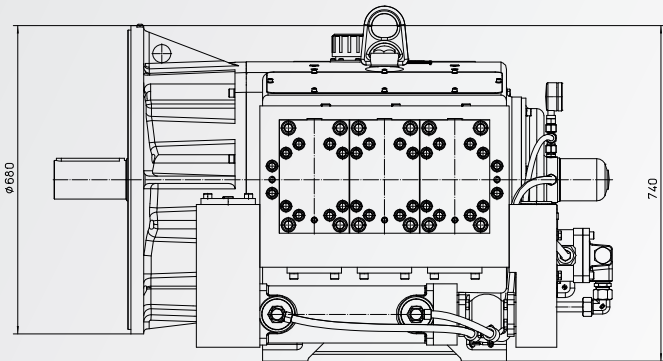
Flange-type with cylinder valve design



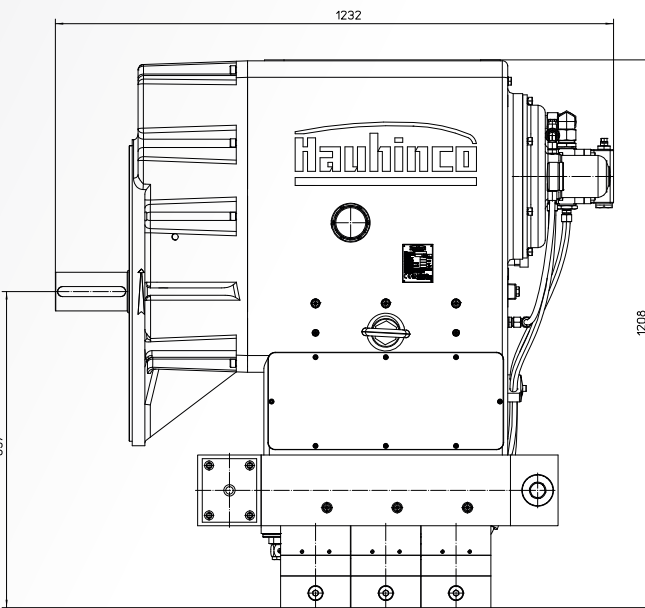
■ Weight^[3]
1.830 kg



Flange-type with plate valve design

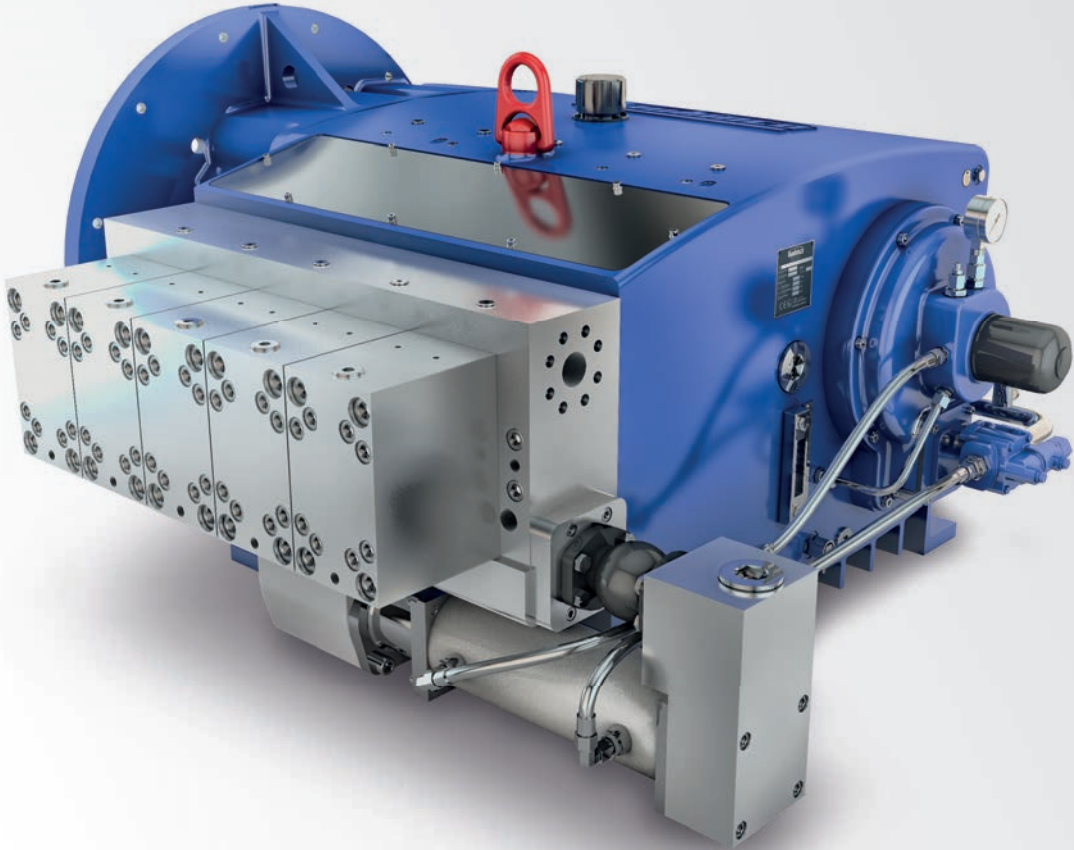


■ Weight^[3]
1.770 kg



^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

Quintuplex-Plunger Pump
EHP-5K 400S



Technical data

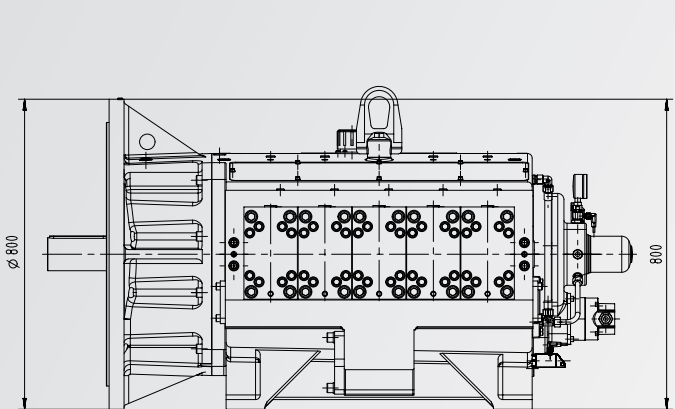
Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
53	540	543	420
57,5	635	639	360
62	738	742	315

- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
400 kW

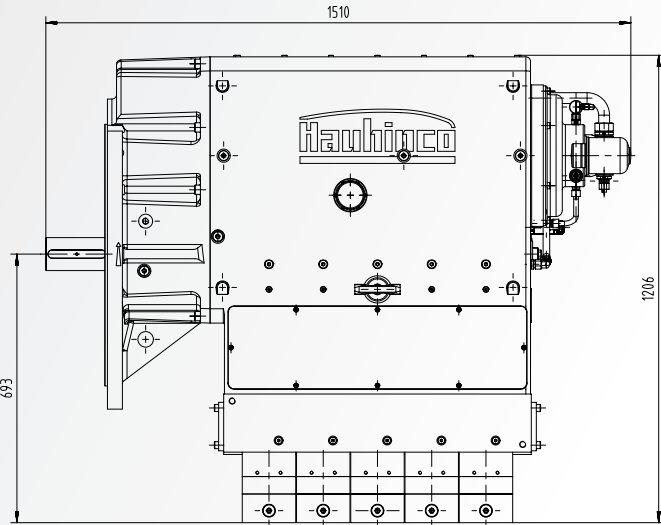
1 kW = 1.3410 HP 1 bar = 14.5038 psi
1 kg = 2.205 lbs 1 l = 0.26417 Gal.

Quintuplex-Plunger Pump
EHP-5K 400S

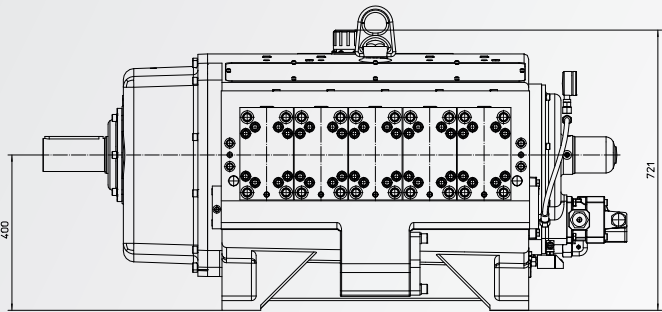
Flange-type with plate valve design



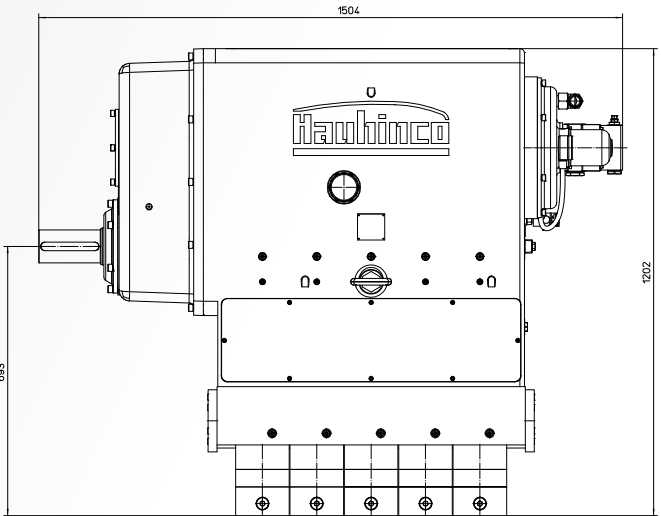
■ Weight^[3]
2,200 kg



Foot-type with plate valve design

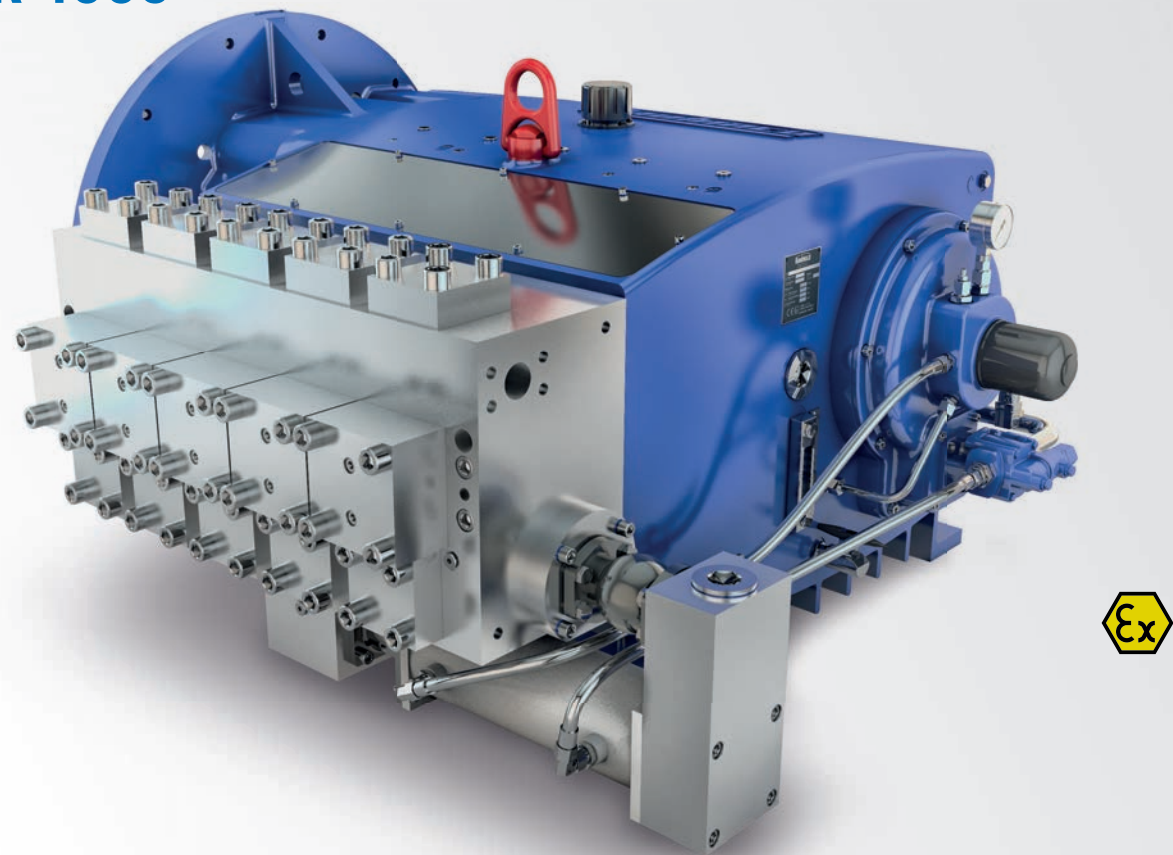


■ Weight^[3]
2,040 kg



^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

Quintuplex-Plunger Pump
EHP-5K 400S



Technical data

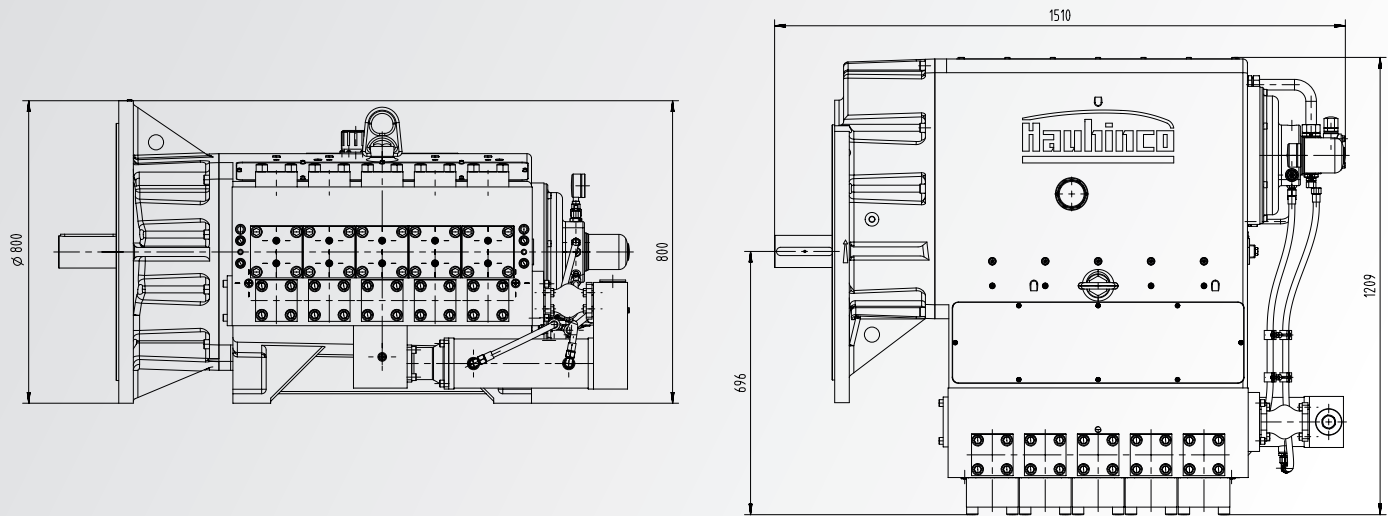
Plunger diameter	Flow rate Q_{th} dm ³ /min		max. Operating pressure ^[2]
	Input speed 1,500 1/min	Input speed ^[1] 1,800 1/min	
mm			bar
53	540	543	420
57,5	635	639	360
62	738	742	315

- max. Input speed:
1,500 / 1,800 1/min
- max. Input power:
400 kW

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

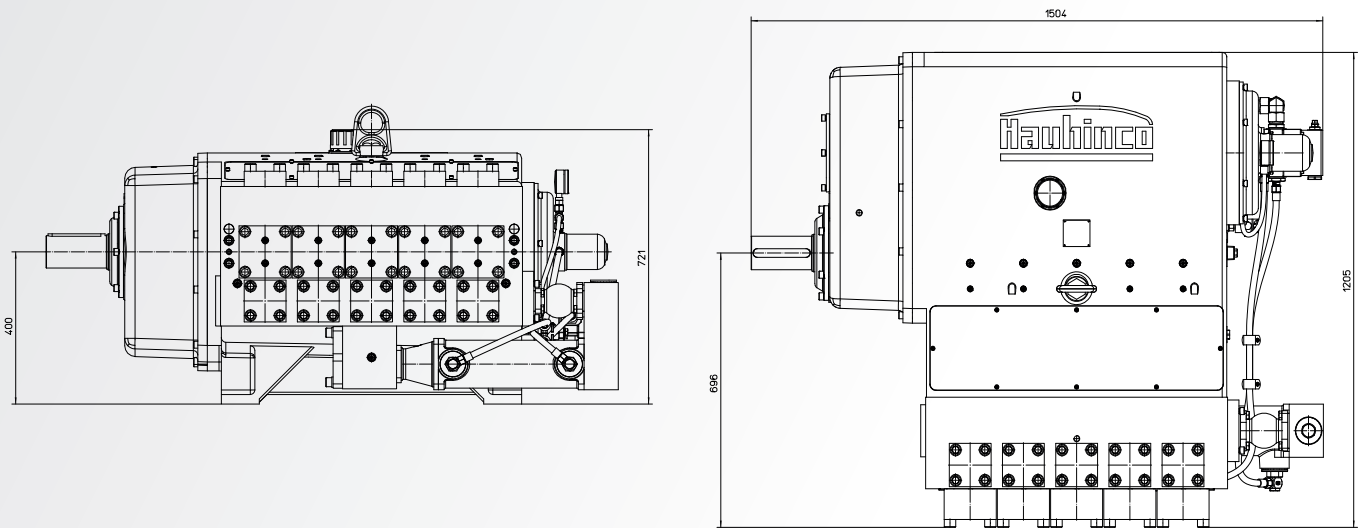
Quintuplex-Plunger Pump
EHP-5K 400S

Flange-type with cylinder valve design



■ Weight^[3]
2,280 kg

Foot-type with cylinder valve design

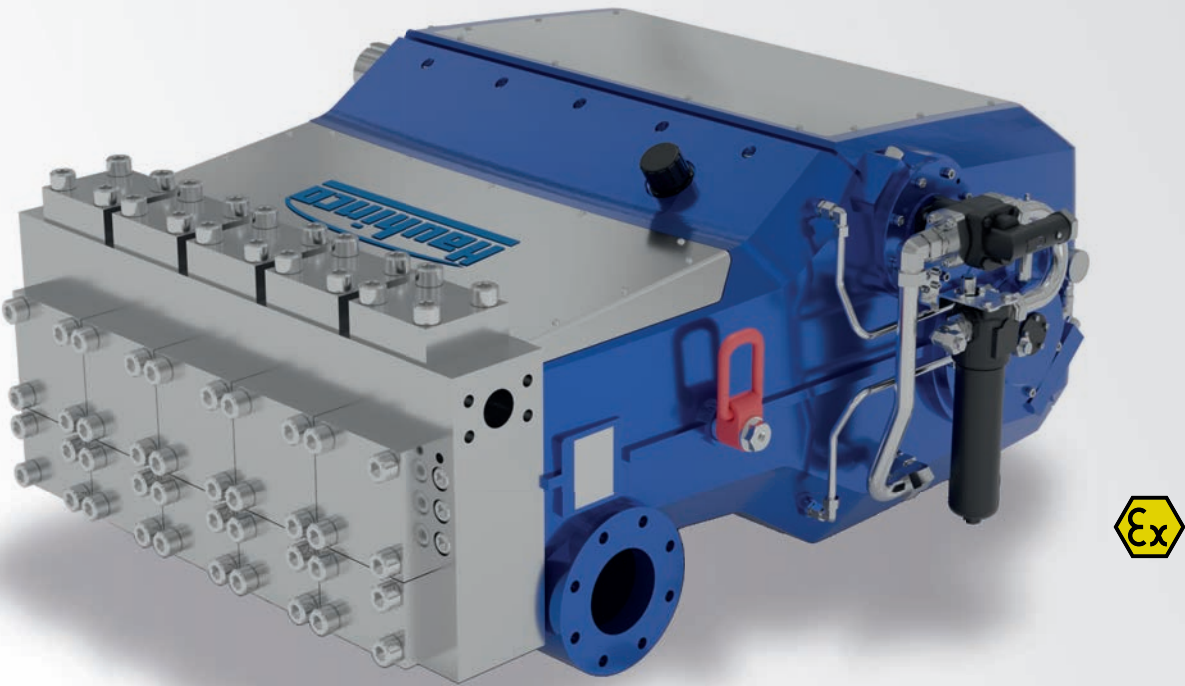


■ Weight^[3]
2,120 kg

EHP-5K 400S

^[1] Reduction gear box for 60 Hz operation (input speed = 1,800 1/min).
^[2] Max. approved operating pressure at the pressure connection pump head.
^[3] The weight specifications apply for pumps without any attachment parts.

Quintuplex-Plunger Pump
EHP-5K 850



Technical data

Plunger diameter	Input speed 1,500 1/min		Input speed 1,800 1/min	
	Flow rate Q_{th} dm ³ /min	max. Operating pressure ^[1] bar	Flow rate Q_{th} dm ³ /min	max. Operating pressure ^[1] bar
mm				
62	940	420	1122	420
66	1066	420	1271	375
68.5	1148	420	1370	350
72.5	1286	375	1534	310
78.5	1508	320	1799	265
85	1768	270	2109	230

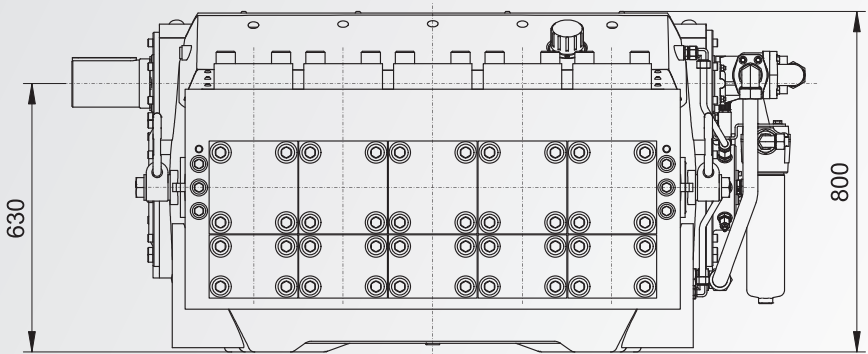
■ max. Input speed:
1,500 / 1,800 1/min

■ max. Input power:
855 kW

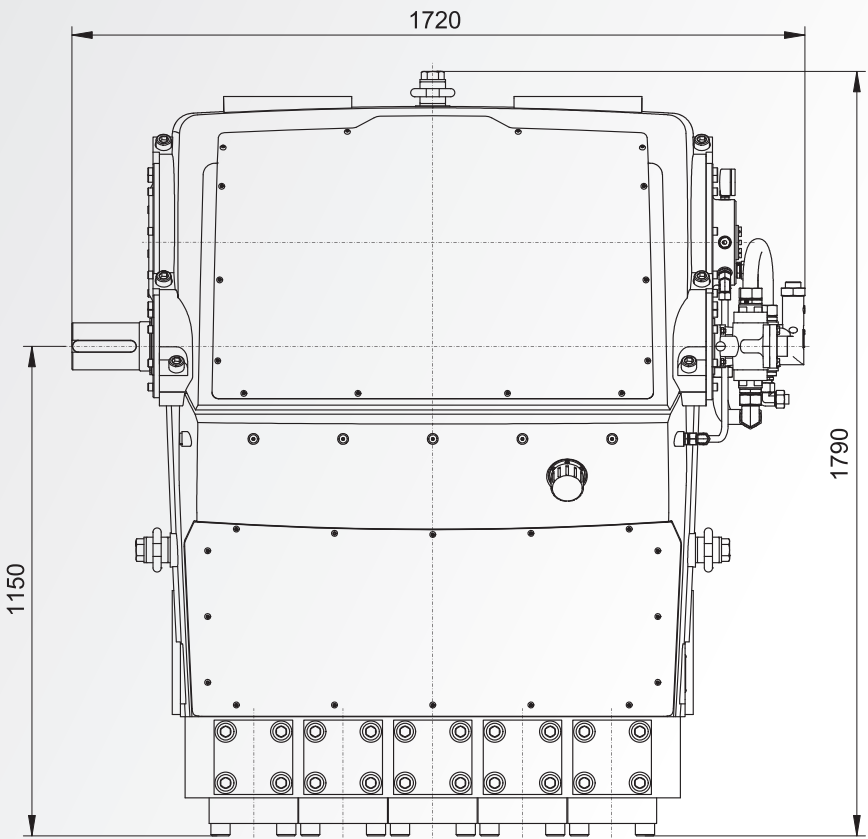
1 kW = 1.3410 HP 1 bar = 14.5038 psi
1 kg = 2.205 lbs 1 l = 0.26417 Gal.

Quintuplex-Plunger Pump
EHP-5K 850

Foot-type with cylinder valve design



■ Weight^[3]
2,280 kg



■ Weight^[2]
4,380 kg

EHP-5K 850

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

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 111 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.

Hauhinco Maschinenfabrik

Hauhinco Maschinenfabrik GmbH & Co. KG
Beisenbruchstraße 10
45549 Sprockhövel
Germany
Phone: +49 2324 705-0
Fax: +49 2324 705-222
E-mail: info@hauhinco.de
Web: www.hauhinco.de

Hauhinco LP

1325 Evans City Road
Evans City
Pennsylvania
16033 USA
Phone: +1 724 789-7050
Fax: +1 724 789-7056
E-mail: info@hauhinco.com
Web: www.hauhinco.com

