



hlp group

pump, process & system solutions

www.hlpgroup.nl



hlp group

hlp group, your local partner!

It is our goal to serve our customers locally over the globe. Our head office and production facility is based in Vianen (UT), The Netherlands. We act with our representatives, services engineers, agents, distributors and other partners around the world. Specially in Europe, Russia, Middle East, Far East and Africa.





hlp group, your reliable partner!

For a dedicated pump or system solution, hlp group is your reliable one stop partner.

Holland Legacy Pump Group b.v.

Holland Legacy Pump Group bv (hlp group) is a Dutch pump and pump solution producer, based in Vianen, Utrecht in The Netherlands. Our speciality and core business is the development and production of "Positive Displacement Pumps and Systems".

The goal of hlp group is to establish and maintain long term partnerships with you as relation by serving you with customised developments and pump solutions.

Our technology is based on the Archimedes screw and the Centrifugal pump technology. We succeeded to combine these 2 principles in the 2 spindle screw pump principle.

The hlp group pumps and systems are not only developed to meet the common requests. Our high tech solutions are designed to meet also the most difficult, high spec and challenging requests for fluid transport and fluid handling.

It is our strength to handle and pump very light (low viscous) fluids and also very thick (high viscous) fluids. Regardless a very low capacity starting from 5 m³/h or a very high capacity up to 5000 m³/h, we can and will provide the suitable solution. Due to the self-priming

and pressure building principles "Positive Displacement", our pumps and systems can reach a delta pressure range from 1 bar up to 60 bar, without any problem.



fluid handling is pumped around in our blood

The hlp group pump and system specialists team consists of several specific knowledge areas. Each individual has also a long experience in the branches. This combination of knowledge and experience makes our team very knowledgeable in order to develop customised pump technology solutions.

The hlp group specialists are not only capable to serve you with our own technology, but we also have the knowledge and capability to serve you with other pump principles, like: centrifugal pumps, eccentric screw pumps, 3 spindle screw pumps, gear pumps and lobe pumps.

Our vision as hlp group, experts in fluid handling and process optimisation, is to create an environment where our solutions, products and services will release you from non-core business activities. As our relation we want to help you to keep your focus on your business.

Your unique process is for hlp group the starting point for our solution architecture.

A single advice, a product from our basic range or high spec engineered solution. We make sure that the hlp group solutions are created to suite your needs!

Regardless the branch you are operating in, the hlp group experts have the knowledge and experience to serve you according to the standards in your specific branch.

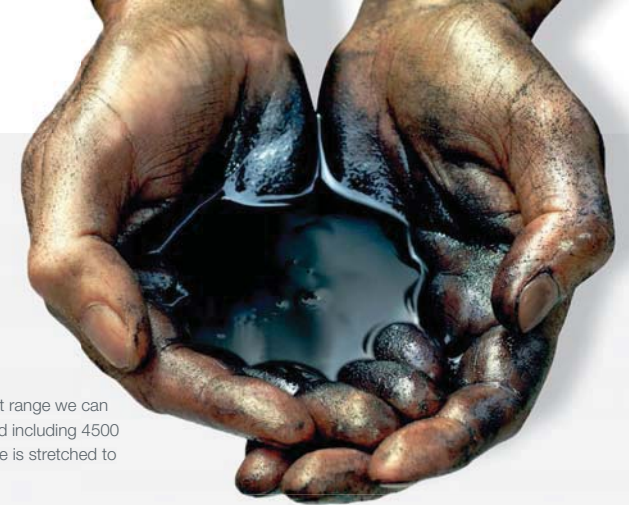
hlp group industries

- Oil & Gas
- Chemical & Petro Chemical
- Power Generation
- General Industry
- Marine
- Food
- Offshore
- FPSO



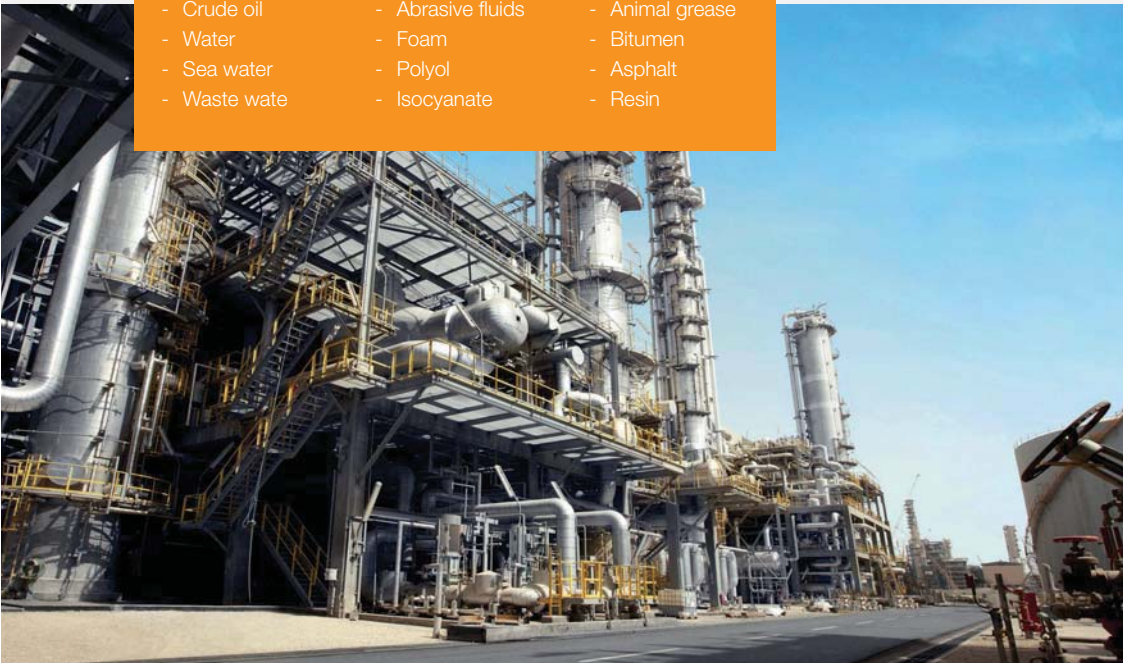
Applications / areas

Our pumps and pump solutions are suitable for a wide range of fluids and applications. Depending on your process and fluids we will select the material and components for our pumps. In our hlp group knowledge centre we have a large database of the most common fluids and fluid properties. If the properties are not known we have the ability to measure a few important properties to be able to select the correct materials.



Selection of fluids in the hlp group knowledge center

- Oils
- Lube oils
- Fuels
- Crude oil
- Water
- Sea water
- Waste water
- Chemicals
- Sludge
- Emulsion
- Abrasive fluids
- Foam
- Polyol
- Isocyanate
- Fluids with gas
- Foam
- Grease
- Animal grease
- Bitumen
- Asphalt
- Resin



With our basic 2 spindle screw product range we can reach capacities from 5 m³/h up to and including 4500 m³/h. For engineered pumps this range is stretched to 5500 m³/h.

Depending on the customers requirements we are able to deliver over 100 different horizontal pump executions and over 50 vertical pump executions within the twin screw range. Besides the several material combinations between casing, liner and screw shafts.

Also the position of suction and pressure flange, creates a wide range of products. Depending on the pump application, material treatments which can be done for better performance and lifetime saving pump operation. Other specific required treatments can be done as well.

Pumping temperature:	45 - 120	°C
Specific gravity:	0,98 - 0,99	kg/dm ³
Suction pressure:	0,1 - 0,5	bar
Discharge pressure:	16,1 - 16,5	bar
Differential pressure:	16,0	bar
Viscosity at pumping:	780,0	mm ² /s
Pump capacity:	418	m ³ /h
Power absorbed at duty:	265,6	kW
NPSH req.:	2,1	mWs
NPSH avail.: (to be advised by customer)	mWs

Speed
Motor power

Pump design and construction

Rotation
Bearing design
Lubrication

Casing heating
Bearing cooling

Flanges

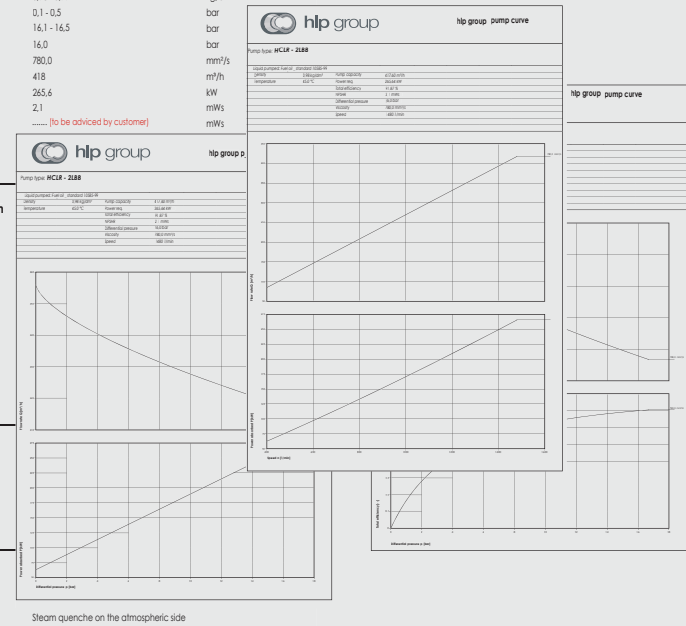
Suction side
Discharge side
Safety valve
Valve description

Material

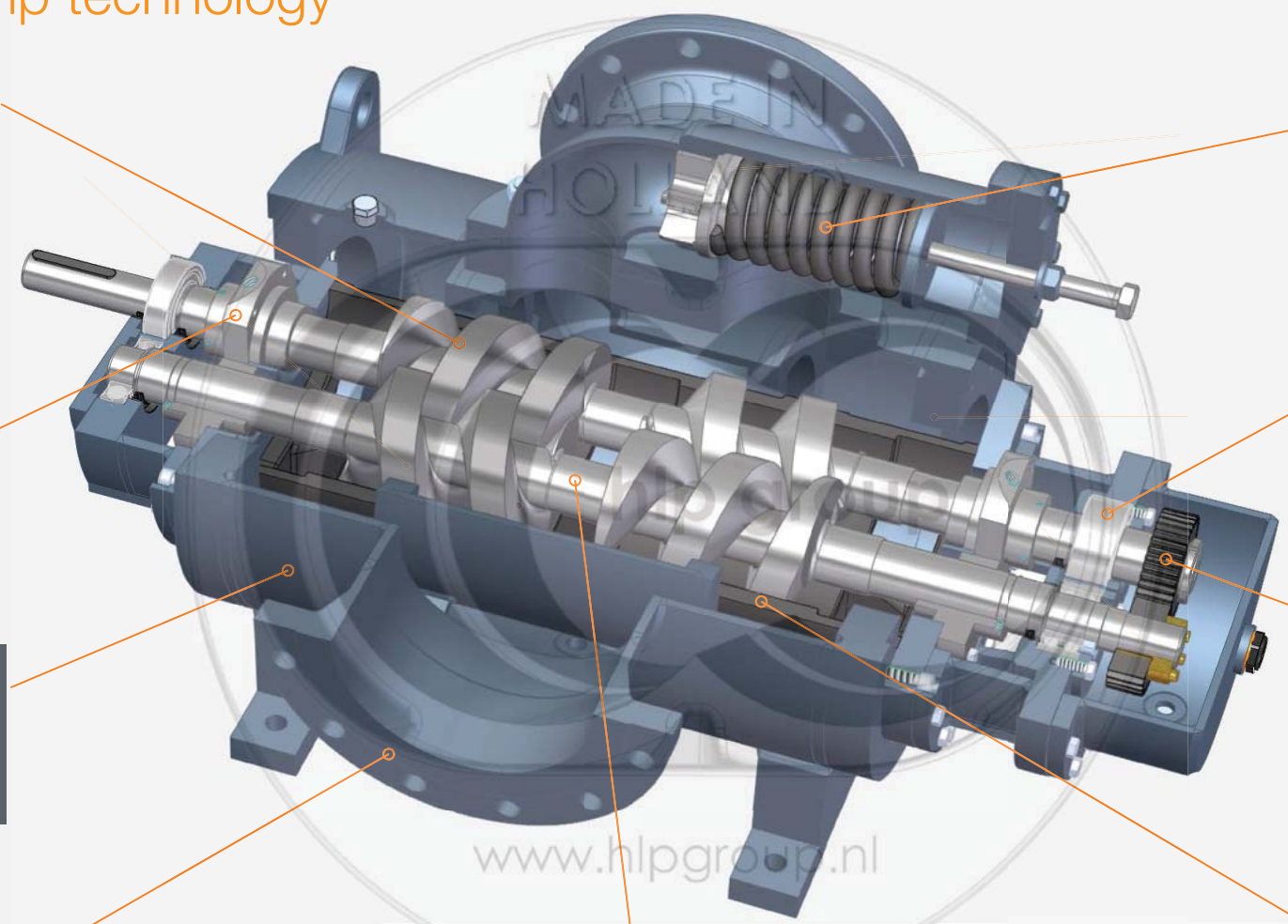
Pump casing
Cover
Screw Covers / Bearing Covers
Liner
Spindle

Sealing

Shaft sealing
Plan
Plan Code



hlp group pump technology



Shafts
The hlp screw profiles of the spindles are designed for continuously and pulsation free pumping. High efficiency, constant pressure building and good/low NPSH values are a result as well.

- Various materials
- Solids in the fluids
- Corrosive and abrasive fluids no problem

Shaft Sealing
To secure leakage of the fluids

- D side / D & ND Side
- Single, double, balanced, unbalanced.
- Product lubricated, extern lubricated.
- API Plan

Pump casing
The pump casings are specially designed according to the customer requirements and latest world wide standards.

- Various materials
- Welded, casted and machined
- Horizontal, vertical and submersed

Flanges
Depending on the specifications and standards, hlp delivers custom made flange connections.

Axial Forces
Balance area for the double axial entry forces

Safety valve
To protect the pump and system for over load

Ball Bearings
Maintenance free bearings which also have service for the axial forces of the screw shafts

- D side / ND Side / D & ND Side
- Lubricated by: product, oil, grease or external
- External cooling

Gears
For a controlled and safe transmission of torque

- Hardend
- Oil lubricated

Liner
Interchangeable liner to protect the casing for wear. Depending on the fluids, hlp provide the best material

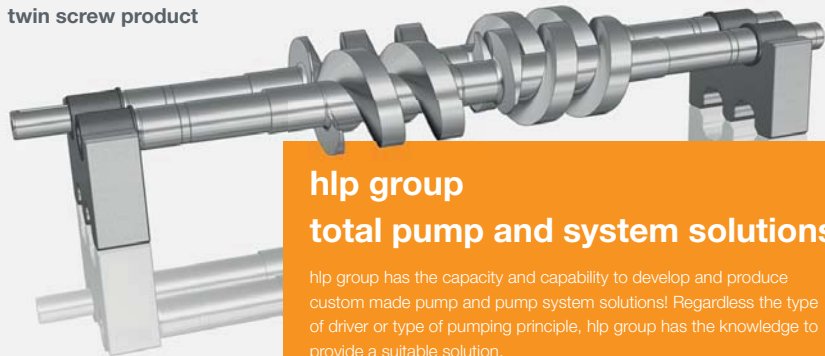
hlp group partnership

hlp group has the priority to build strong and reliable partnerships with her customers and sub suppliers as well.



Total solutions

hlp group own engineered twin screw product



hlp group total pump and system solutions

hlp group has the capacity and capability to develop and produce custom made pump and pump system solutions! Regardless the type of driver or type of pumping principle, hlp group has the knowledge to provide a suitable solution.

- Drivers
- Pump principle
- Packaging

hlp group driver and packaging solutions



Electrical motors



Diesel engines



Hydro motors



Gear boxes

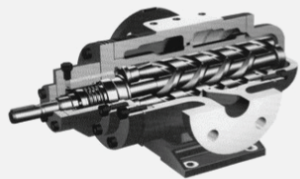
hlp group pump solutions. partner products



Eccentric screw pumps



Between bearings pump



Three spindle screw pump



Lobe pump

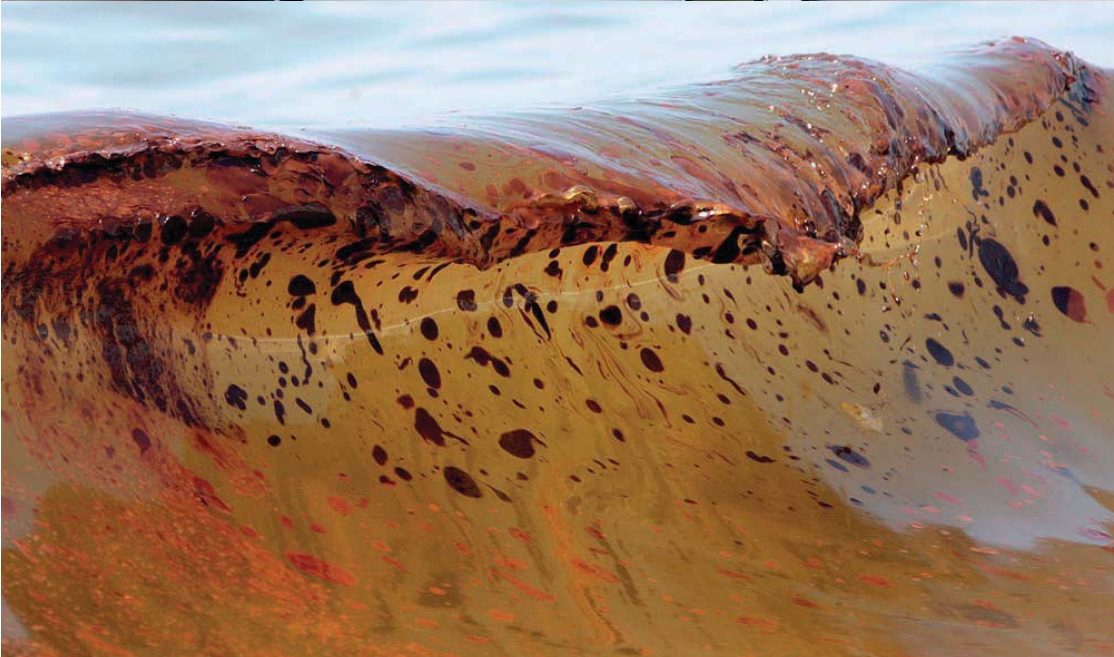


Centrifugal pump



Complete pump package

hlp pumps are suitable for different environments



hlp group pump series

hlp series	Construction	Performance data										
		Capacity		Pressure		Viscosity		Temperature		Fluids	Properties	Applications
		m ³ /h	gpm	bar	psi	cSt=mm ² /s min	cSt=mm ² /s max	°C	°F			
<i>This is a small selection of our possibilities</i>												
HC 2 SB 0	Horizontal	1.500	6.600	40	580	0,48	1.500	80	176	Lube oils	Low viscos fluids	Oil Systems
										Non lube oils	Corrosive fluids	Hydraulic Systems
										Hydraulic oils	Abrasive fluids	Fuel oil Services
										Fuels		
										Grease		
HC 2 LB 0	Horizontal	2.000	8.800	40	580	0,48	5.000	160	320	Lube oils	Low viscos fluids	Oil Systems
										Non lube oils	Corrosive fluids	Hydraulic Systems
										Hydraulic oils	Abrasive fluids	Fuel oil Services
										Fuels		
										Grease		
HC 2 SB 1	Horizontal	4.000	17.600	40	580	0,48	100.000	400	752	Lube oils	Low viscos fluids	Oil Systems
										Non lube oils	High viscos fluids	Hydraulic Systems
										Hydraulic oils	Corrosive fluids	Fuel oil Services
										Fuels	Abrasive fluids	Process
										Grease	Hot fluids	Transfer
HC 2 LB 1	Horizontal	5.100	22.440	80	1.160	0,48	100.000	400	752	Lube oils	Low viscos fluids	Oil Systems
										Non lube oils	High viscos fluids	Hydraulic Systems
										Hydraulic oils	Corrosive fluids	Fuel oil Services
										Fuels	Abrasive fluids	Process
										Grease	Hot fluids	Transfer
VF 2 SB 0	Vertical	700	3.080	20	290	0,48	7.500	80	176	Fresh water	Low viscos fluids	Pumping air entrained lub oils
										Sea water	High viscos fluids	Cargo Services
										Polluted water	Corrosive fluids	Ballast Service
										Lube oils	Abrasive fluids	Ballast Service
										Non lube oils		Transfer Services
										Hydraulic oils		General Service
										Fuels		
										Grease		
										Fuel oils		
										Light products		
VF 2 LB 0	Vertical	1.200	5.280	20	290	0,48	7.500	300	572	Fresh water	Low viscos fluids	Pumping air entrained lub oils
										Sea water	High viscos fluids	Cargo Services
										Polluted water	Corrosive fluids	Ballast Service
										Lube oils	Abrasive fluids	Ballast Service
										Non lube oils	Hot fluids	Transfer Services
										Hydraulic oils		General Service
										Fuels		
										Grease		
										Fuel oils		
										Light products		
SU 2 SB 0	Submerged	750	3.300	16	232	1,00	1.000	200	392	Fresh water	Low viscos fluids	Pumping air entrained lub oils
										Sea water		Hydraulic Systems
										Polluted water		Fuel oil Services
										Lube oils		General Service
										Non lube oils		
										Hydraulic oils		
										Fuels		



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