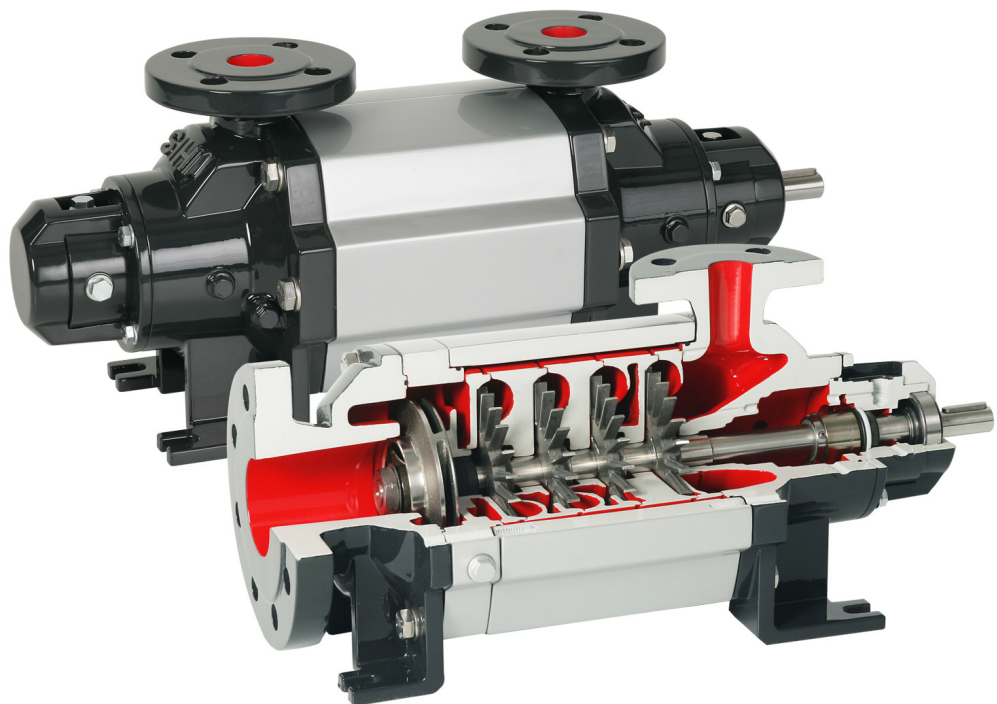


Side Channel Pumps for the Chemical Industry



The founders of Sterling SIHI were Mr Siemen and Mr Hinsch and in 1920 they invented the side channel principle and since then the company has continued to develop and improve the side channel design.

The process industry demands a high level of operational safety for its equipment and Sterling SIHI fully meets these standards, by offering an extensive range of materials for their highly efficient side channel pump range.

The experience gained in the last 80 years by Sterling SIHI through the supply, installation and manufacture of more than 2 million side channel pumps, ensures the unique knowledge to manufacture and support these products within the process industry.

SIHI^{prime} ... the innovative design

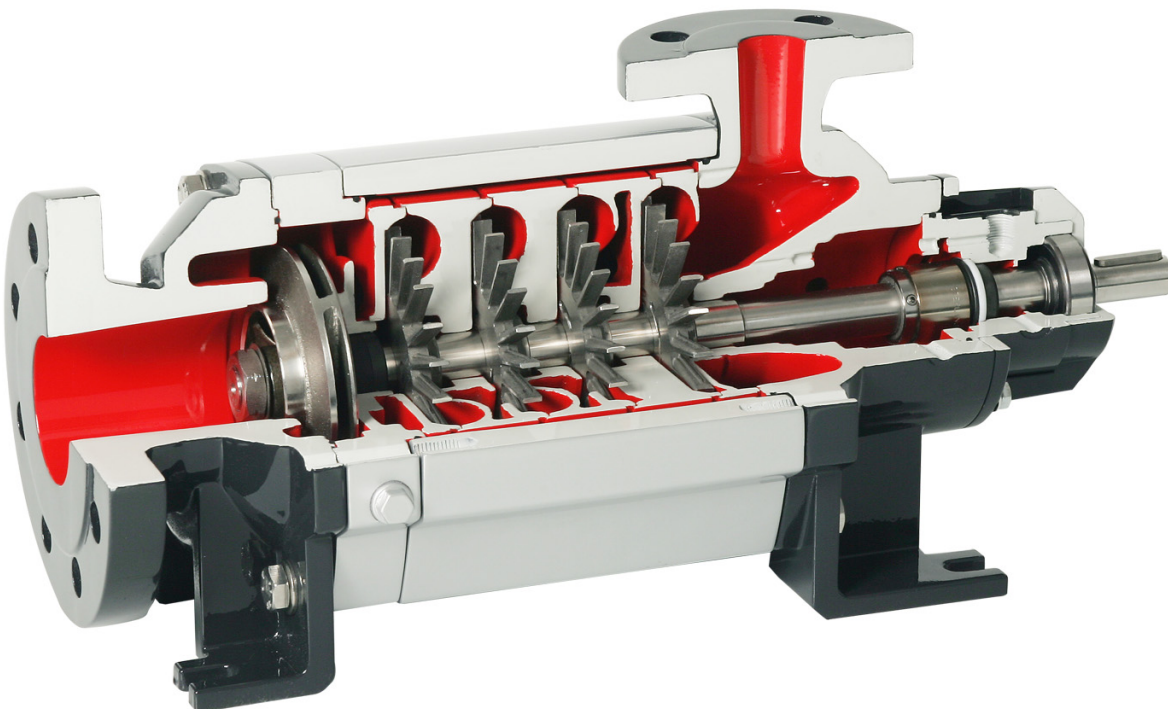
The SIHI^{prime} range of the CEH-X and AEH-X has been designed to incorporate the very best features of the former CEH and AEH range whilst improving the overall design. Additionally further demands regarding improved safety, assembly and maintenance of these pumps have been considered.

The new design is fully interchangeable with the former CEH and AEH series and therefore the exchange of existing pumps is guaranteed.

The improved safety of the pumps is realised by the new barrel design. The number of casing seals is reduced to a minimum and the quality of the sealing is improved by using o-rings instead of PTFE cord.

Instead of tie bolts which are normally used in multi-stage ring section pumps, standard machine screws are used to assemble the pump casing. This allows simple mounting and maintenance as well as a high safety standard and the prevention of leakages at varying temperatures.

The unique design of the bearing bracket and sealing housing allows the use of all common single and double acting mechanical seal options including cartridge seals. These pumps are also available with magnetic coupling and the complete encapsulation of the pumps rotating parts ensures a high safety standard for the operators.



"Drop in" replacement for the former CEH and AEH range with key wear parts interchangeability

Material Design

Item	Material of Construction
Discharge casing	Nodular iron, stainless steel
Suction casing	Nodular iron, stainless steel
Intermediate pieces	Grey cast iron, stainless steel
Shaft	Chrome steel, stainless steel
Impeller / vane wheel impeller	Grey cast iron, brass, stainless steel
Barrel casing	Nodular iron, stainless steel

SIHI^{prime} ... simple, robust and innovative

Pumps of the series CEH-X and AEH-X are horizontal and self-priming side channel pumps with open impellers. The CEH-X is equipped with a NPSH inducer stage, which allows the pump to operate on the suction side under unfavourable conditions and at positive suction heads lower than 0.5 m. These pumps are suitable for handling liquids which do not contain solids or abrasive matter.

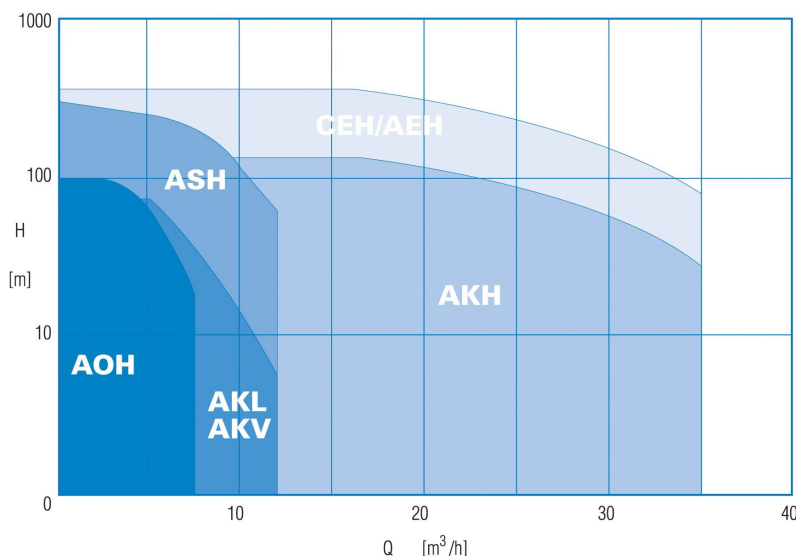
Demand

- Interchangeability with the former CEH and AEH series
- Increased safety against leakage
- ATEX conformity
- Easy to assemble and unassemble and low inventories of spare parts
- Reduced maintenance time
- Short lead times and fast delivery
- Ensures optimal solution for the application

Solution

- "Drop in" replacement with key parts interchangeability (e.g. impellers)
- Minimised number of casing seals due to barrel design
- Replacement of tie bolts by standard machine screws which are used to assemble the pump casing
- High quality o-ring seals
- double mechanical seal or magnetic coupling
- Certified for category Ex II 2 G
- o-rings instead of soft PTFE cord
- Replacement of tie bolts by standard machine screws which are used to assemble the pump casing
- Modular design
- Easy exchangeability of shaft seals
- Modular design, reduced complexity of parts
- Extensive range of sizes, materials and sealing combinations

Performance range



CEH-X and AEH-X

Capacity: up to 35 m³/h

Head: up to 354 m

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