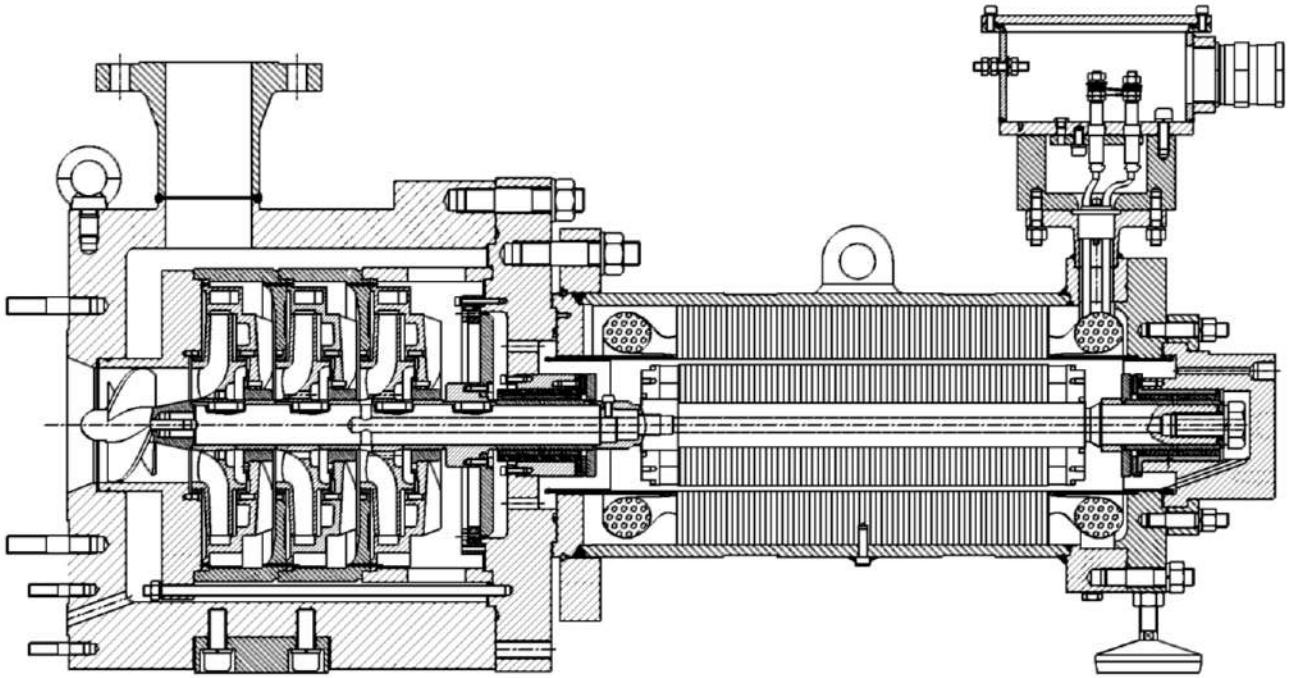
RETROFIT / FIT IN PLACE



OPTIMEX
CANNED MOTOR PUMPS

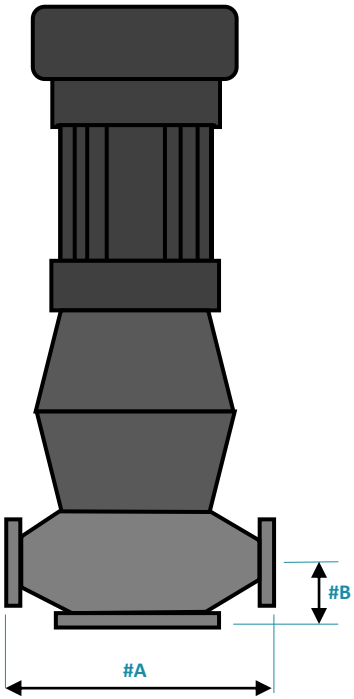
FIT IN PLACE

Replacing an existing pump by a FIT IN PLACE pump offers to the user a turnkey solution integrating the canned motor technology and not requiring any modification of his installation (piping or civil engineering).

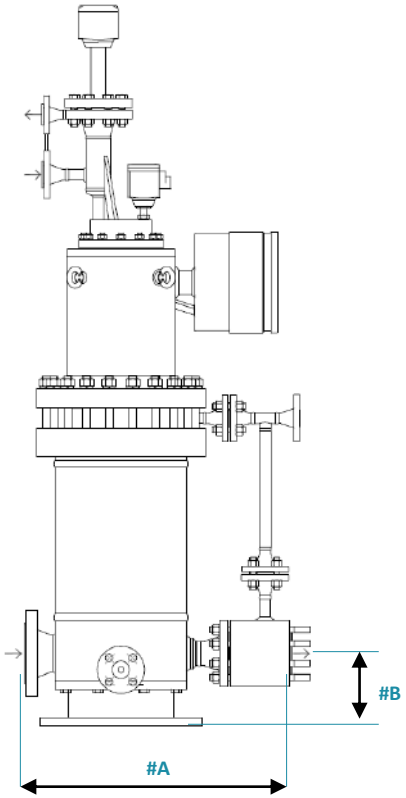
For this type of operation, Optimex is committed to provide its customer with a new solution, adapted to its process and easily installed.

Optimex can also propose an improved design in order to increase the performance of the machine.

Everywhere you have mechanical seal damages or high maintenance costs, we are able to bring a solution.



- Keep similar arrangement
- Keep same process data
- Keep same power supply
- Increase MTBF



OPTIMEX
CANNED MOTOR PUMPS

FIT IN PLACE EXAMPLES

Replacement of a mechanical seal pump by a fit in place vertical canned motor pump

User site: Chemical plant

Fluid: Hydrocarbon condensates at 34°C

Working: 7 m3/h at 58m

Pump type: 25GLI-AV /3 Ba_P4F2 (BF1210)

Replacement of a mechanical seal pump by a fit in place canned motor pump

User site: Chemical plant

Fluid: Propylene + propane at 45°C

Working: 130 m3/h at 150m

Pump type: 100GI-A /3 BAIN_P69F2 (BF1483)

OPTIMEX
CANNED MOTOR PUMPS

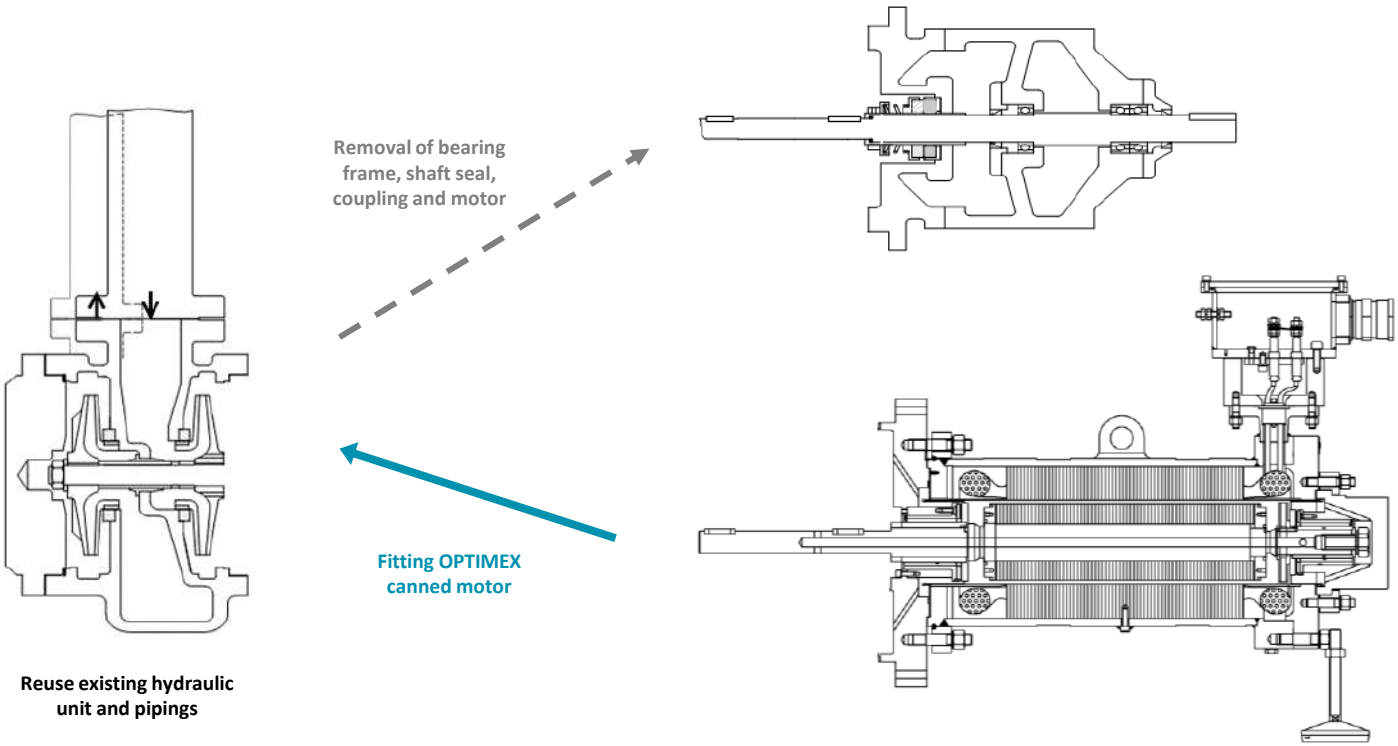
RETROFIT

A RETROFIT consists in reusing the **hydraulic parts** of an existing pump and adapt the **canned motor pump technology** by eliminating the dynamic sealing system.

This technique is of interest when the cost of replacing the hydraulics and the cost of any pipework modifications are too high.

In this case Optimex offers to study, design, manufacture and test tailor-made systems to adapt the canned motor technology to the existing installation. This technique allows the user to make his workstations more reliable while guaranteeing the highest level of security against the risk of leakage.

Everywhere you have mechanical seal damages or high maintenance costs, we are able to bring a solution.



OPTIMEX
CANNED MOTOR PUMPS

RETROFIT EXAMPLES

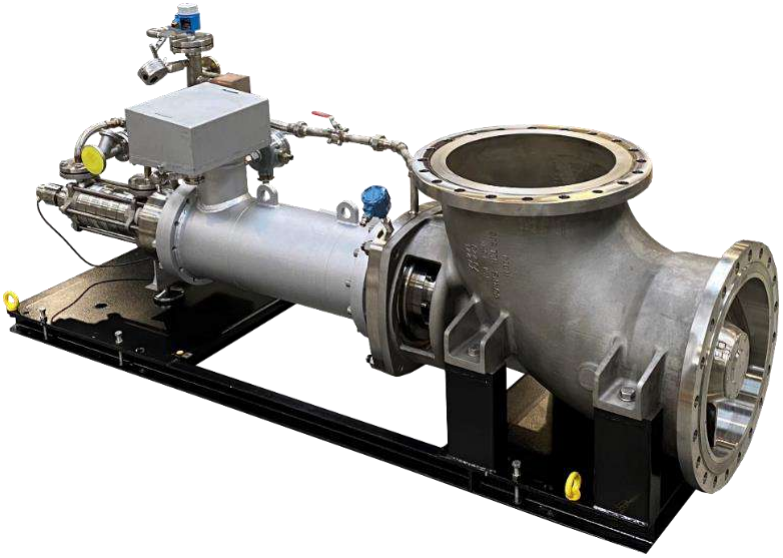
Revamping on pump propeller
Cooling design - high particles contents

User site: Chemical plant

Fluid: Organic liquid effluents at 101°C

Working: 2100 m3/h at 4m

Pump type: HELRI-AR 500_M120F4 (BF1667)



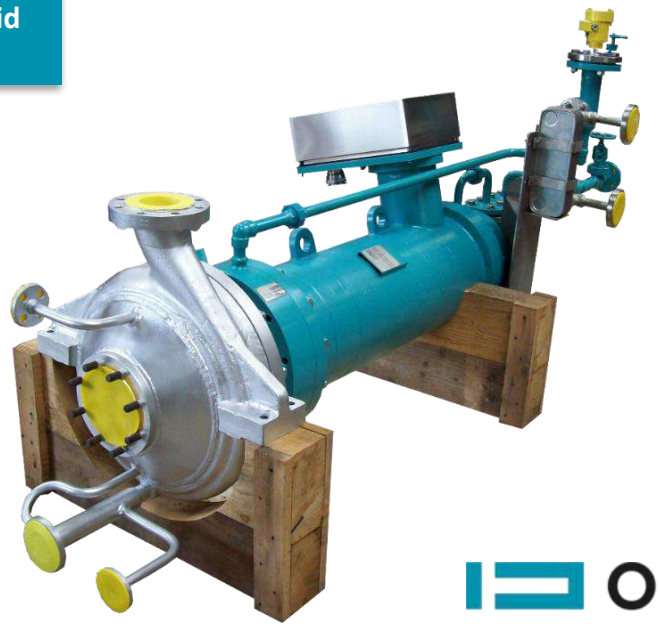
Revamping of mono pump with open impeller for dirty liquid
Stainless-steel construction – Cooling design with flushing

User site: Chemical plant

Fluid: **28%** TDI + 72% coke at 180°C

Working: 80 m3/h at 51m

Pump type: PRNKI-AR 80/400_120F4 (BF790)



OPTIMEX
CANNED MOTOR PUMPS

COMPARATIVE BETWEEN "RETROFIT" AND "FIT IN PLACE" SOLUTIONS

	RETROFIT	FIT IN PLACE
ADVANTAGES	• Maintain existing hydraulic parts on installation • No modification on process side • Increase reliability and safety of pumping unit • Reduce maintenance costs	• Maintain existing interfaces on process side • Recent pump unit adapted to canned motor construction • Standardisation of spare parts with Optimex products range • Increase reliability and safety of pumping unit • Reduce maintenance costs
DISADVANTAGES	• Additional design costs to adapt canned motor solution on existing pump (circulation, balancing, mechanical interfaces) • Obsolescence for spare parts on old pump design • Reuse of existing worn parts • Power consumption is more important with a canned motor technology	• Power consumption is more important with a canned motor technology

CONTACT

269, rue de Montepy
69210 Fleurieux sur l'Arbresle
France

Tel : +33(0)4 72 52 95 74
contact@optimex-pumps.com
https://www.optimex-pumps.com/

OPTIMEX
CANNED MOTOR PUMPS

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