

KBL-LLC HSC PUMP RANGE

	SCT -LLC Pump Series		UP -LLC Pump Series	
	50 Hz	60 Hz	50 Hz	60 Hz
Capacity	Upto 3500 M ³ /Hr	Upto 4500 M ³ /Hr	Upto 5000 M ³ /Hr	Upto 6000 M ³ /Hr
Head	Upto 200 M	Upto 166 M	Upto 69 M	Upto 95 M
Liquid Temperature	-10°C to 120 °C	-10°C to 120 °C	-10°C to 120 °C	-10°C to 120 °C
Turbidity (TDS)	Up to 3000 ppm	Up to 3000 ppm	Up to 3000 ppm	Up to 3000 ppm
Maximum Suction Pressure	14 barg	14 barg	20 barg	20 barg



KBL has adopted this concept effectively in its product offerings and has benefited a large cross section of customers in more than 30 countries globally.

Even though the initial cost of the pump appears to be relatively high, customer saves on energy cost. Our aim is "Minimum cost for Maximum Benefits"-when evaluated over 20-25 years.

... Life cycle cost redefined

As we are constantly endeavouring to improve the performance of our products / equipment, we reserve the right to make alterations from time to time and as they get in touch with our Regional Sales Offices.

Pumps | Valves | Hydro Turbines | Turnkey Projects

Water Resource Management | Irrigation | Power | Industry | Oil & Gas | Marine & Defence | Building & Construction | Distribution
(Small Pumps) | Valves | Customer Service & Spares



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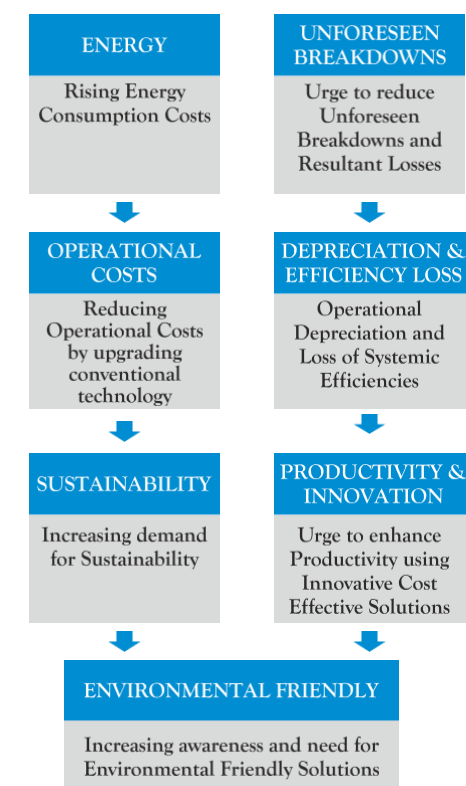
LOWEST LIFE CYCLE COST SERIES (LLC)TM HORIZONTAL SPLIT CASE PUMPS

Technology... Enriched!!!



Lowest Life Cycle Cost (LLC)TM: A Concept

- The Life Cycle Cost (LCC) of any equipment is the total "Lifetime Cost" incurred to purchase, install, operate, maintain and dispose it. Typically out of the total cost of running the equipment, the energy cost works out to 80-85% vis-à-vis capital cost of 1%.
- It is in the fundamental interest of the user to evaluate the Life Cycle Cost of different pumping systems before installing a new pumping station and/or carrying out a major overhaul.
- Capital expenditure should be thoroughly evaluated vis-à-vis total Life Cycle Cost over a period of 20 to 25 years.

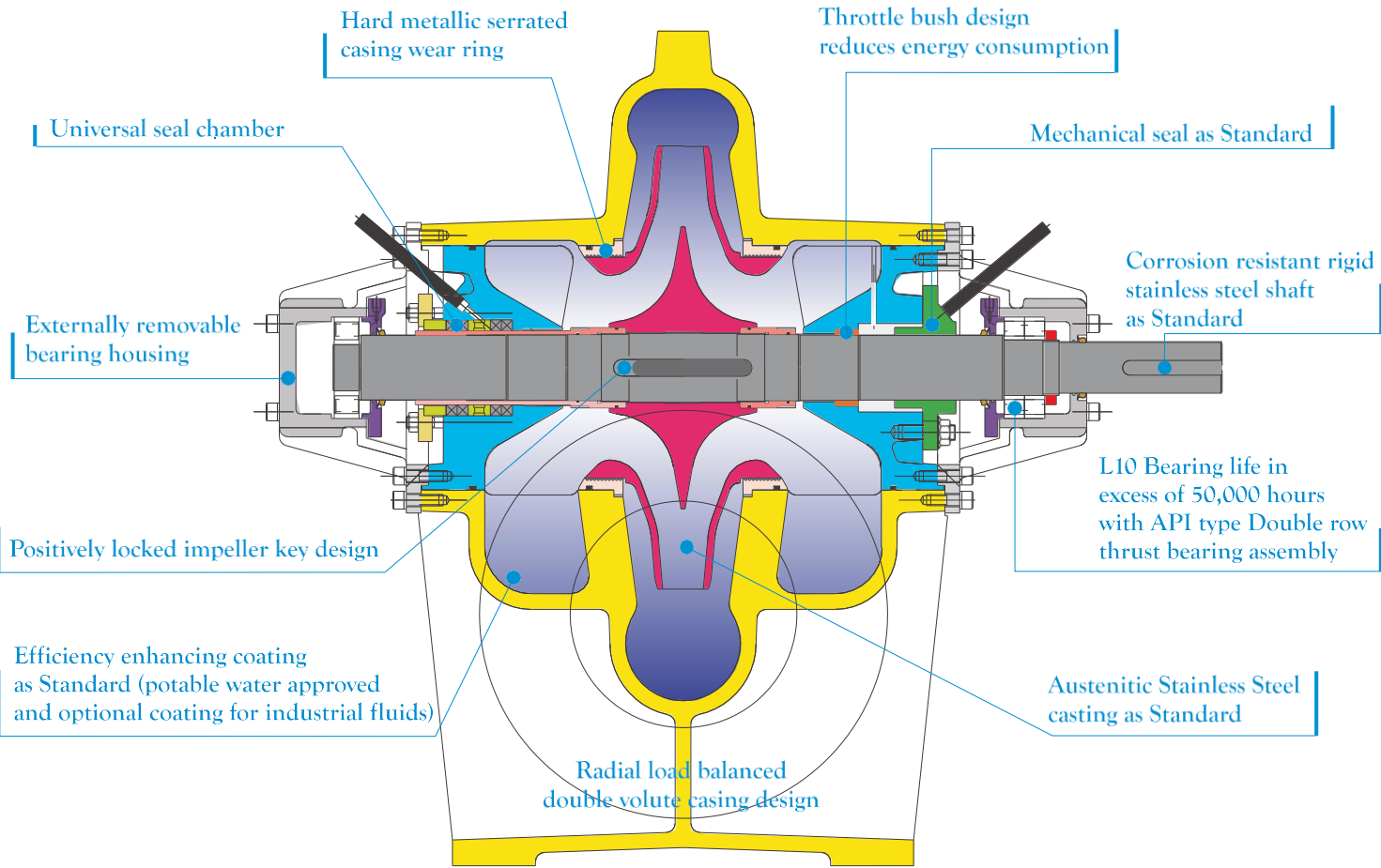


KBL with its expertise in blending technological innovations and hydraulic engineering worked on these conceptual requirements to evolve KBL's Lowest Life Cycle Cost Series (LLC)TM

Evolution of Lowest Life Cycle Cost (LLC)TM

... Life cycle cost redefined

FAMILY CURVE



Typical Cross - sectional view of KBL-LLC HSC Pump

Applications :

- Water Supply
- Drainage & Irrigation
- Water and Effluent Treatment Plant
- Booster Pumping Stations
- Industrial Utility Services
- Cooling Tower Circulation
- Hot / Cold Water Circulation
- Sea Water Handling
- Reclaim Water Pumping Stations
- Desalination Plants

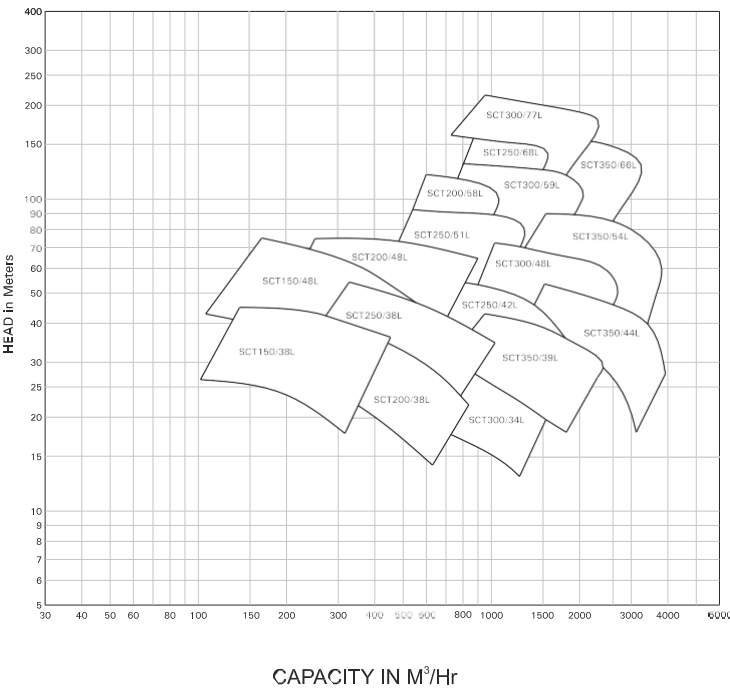
Benefits :

- Enhanced product life
- Sustained Efficiency - Saving Energy
- Accelerated capital cost recovery
- Reduced maintenance - Reducing down time
- Reduced carbon foot print
- Cost effective solution

STANDARDISED MATERIAL OF CONSTRUCTION

Casing	Cast Iron with Corrocoat	ASTM A48 CL 40 + CORROCOAT FLUEGLIDE E
Impeller	Stainless Steel	ST ST ASTMA 351/351M - CF8M
Wear Rings (Csg)	Zinc Free Bronze	BR BSEN 1982-CC480K (BS1400-CT1)
Shaft	Stainless Steel	ST ST BS970 P-L431S29(H)
Insert (DE / NDE)	Cast Iron with Corrocoat	ASTM A48 CL 40 + CORROCOAT FLUEGLIDE E
Mechanical seal		Cartridge type - C / SiC
Fasteners	Carbon Steel	IS 1367 Part 3 CL 8.8 (Nearest Equivalent: ASTM 325M - CL 8.8)

SCT PUMP 50 Hz



SCT PUMP 60 Hz

