

Lowest Life-cycle Cost (LLC)TM Series of Pump



Enriching Lives

**Energy
Saving**

reduced
downtime

long
life

800+
pumps
supplied
worldwide

sustainable
efficiency

LLC

winner of
**Innovation of
the Year**
organised by
**Pump Industry
Awards (2007)**
in UK

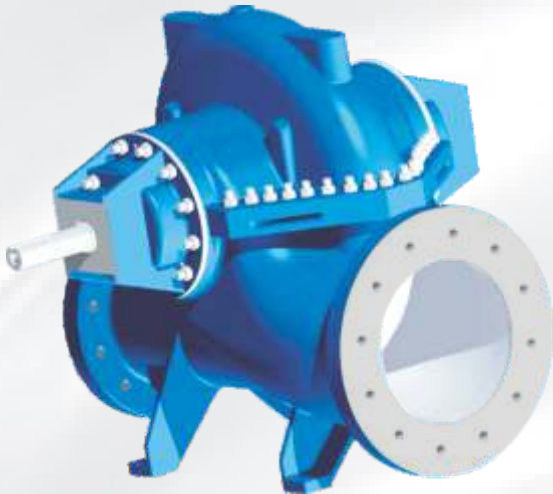
Efficiency
enhanced due to
**design & glass flake
coating**

supplied to
over **26**
countries

ease of
maintenance



LOWEST LIFE-CYCLE COST SERIES (LLC)[™] SPLIT CASE AND VERTICAL TURBINE PUMPS



Lowest Life Cycle Cost (LLC)[™]: A Concept

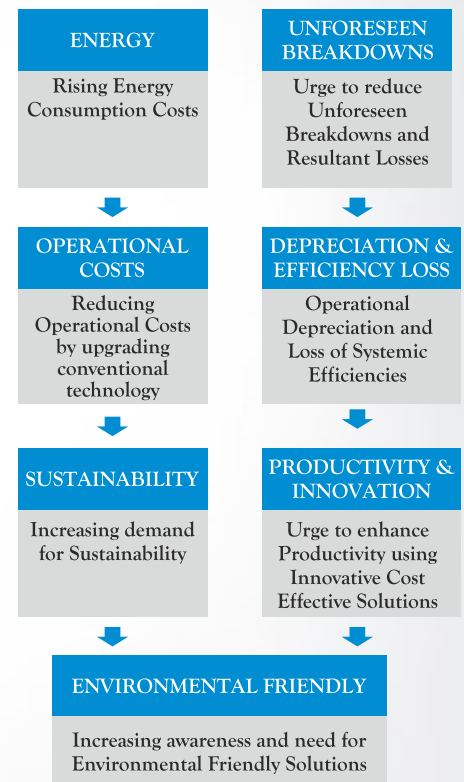
- The Life Cycle Cost (LCC) of any equipment is the total “Lifetime Cost” incurred to purchase, install, operate, maintain and dispose it. Typically out of the total cost of running the equipment, the energy cost works out to 80-85% vis-à-vis capital cost of 1%.
- It is in the fundamental interest of 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.

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

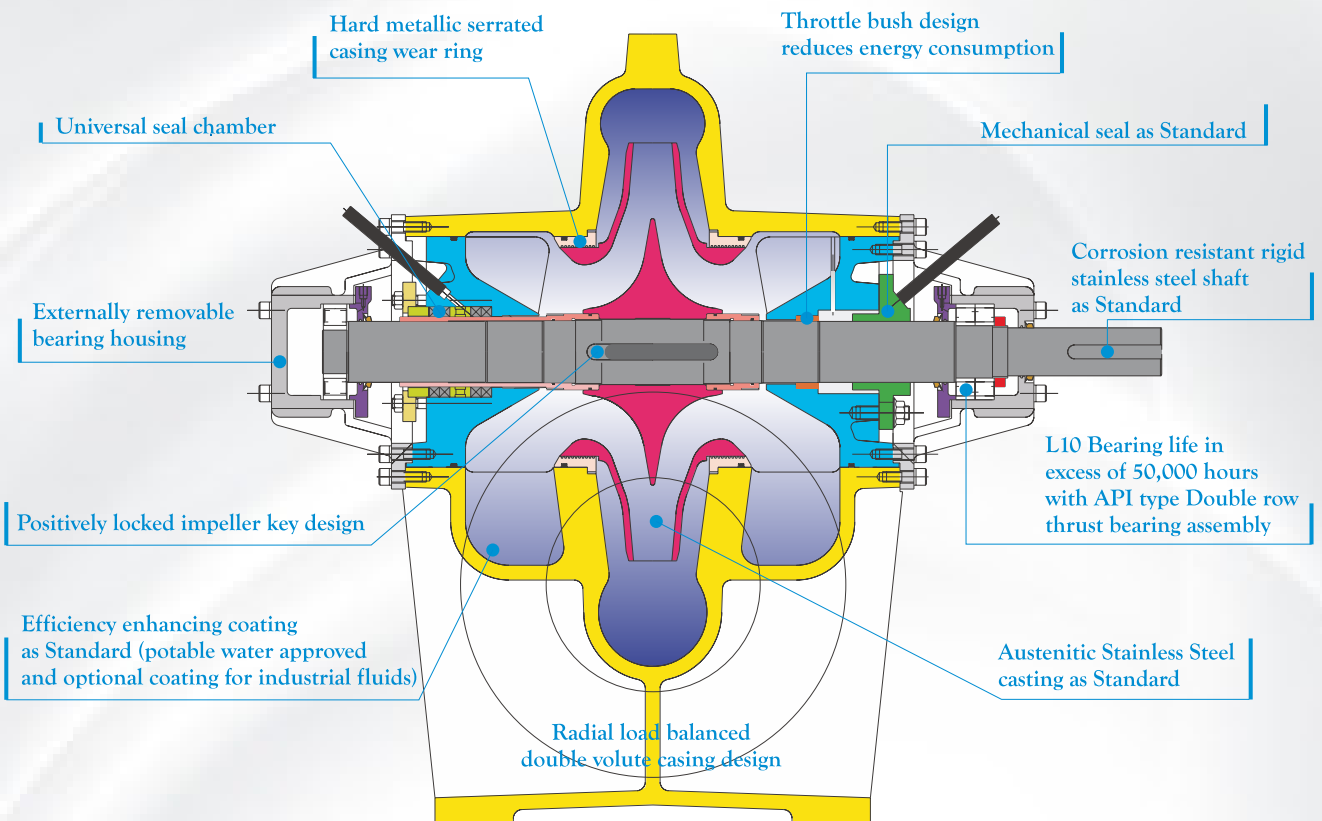
Benefits :

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



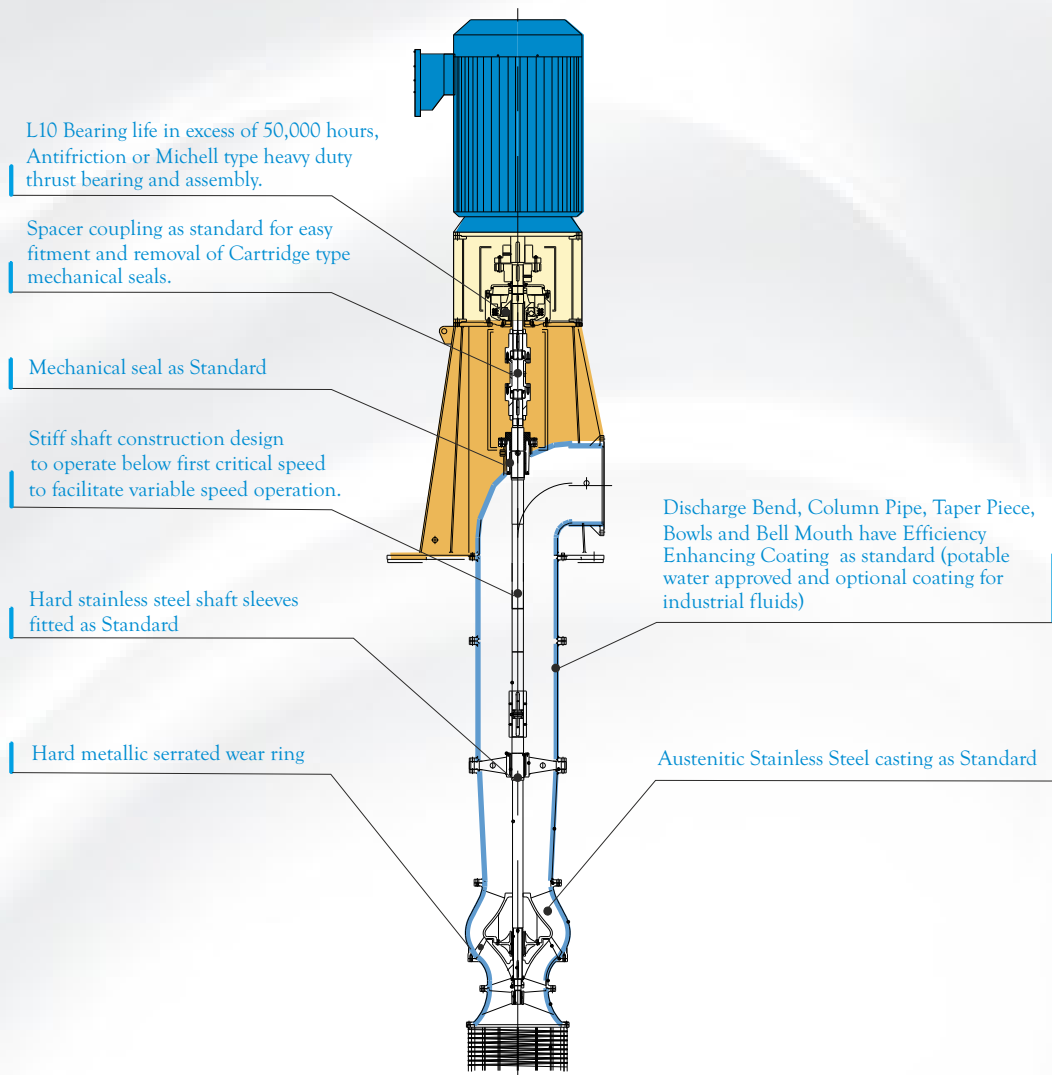
KBL with its expertise in blending technological innovations and hydraulic engineering worked on these conceptual requirements to evolve KBL's Lowest Life Cycle Cost Series (LLC)[™]

Evolution of Lowest Life Cycle Cost (LLC)[™]



Typical Cross – sectional view of KBL-LLC HSC Pump

STANDARDISED MATERIAL OF CONSTRUCTION	
Casing	Cast Iron with Corrocoat
Impeller	Stainless Steel
Wear Rings (Csg)	Zinc Free Bronze
Shaft	Stainless Steel
Insert (DE / NDE)	Cast Iron with Corrocoat
Mechanical seal	
Fasteners	Carbon Steel

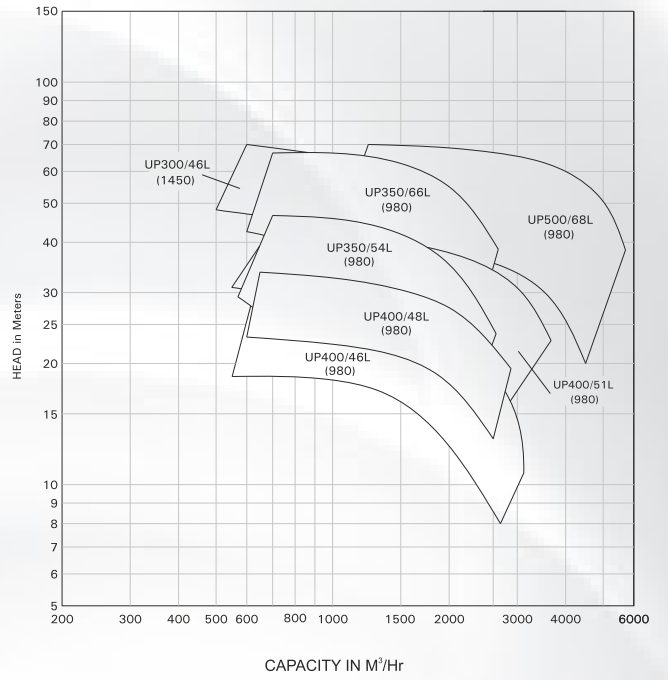
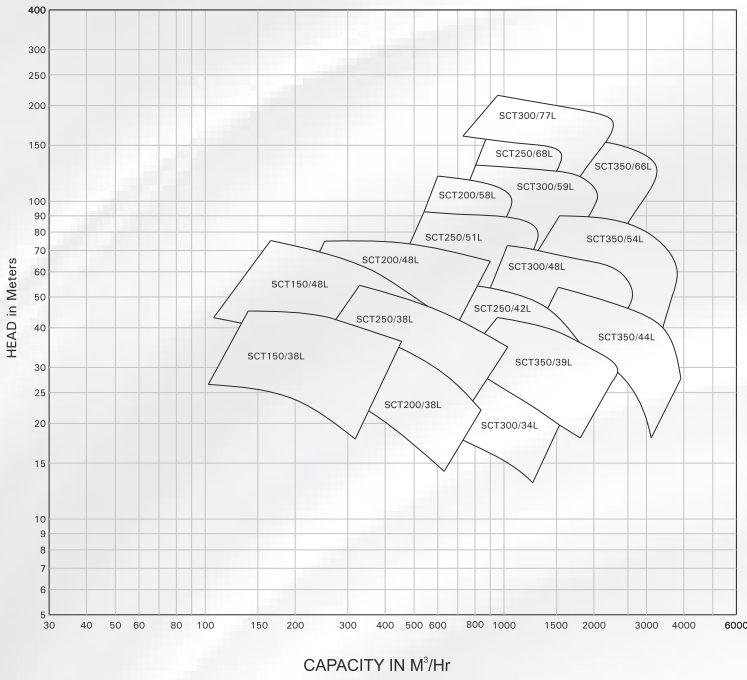


Typical Cross – sectional view of KBL-LLC VT Pump

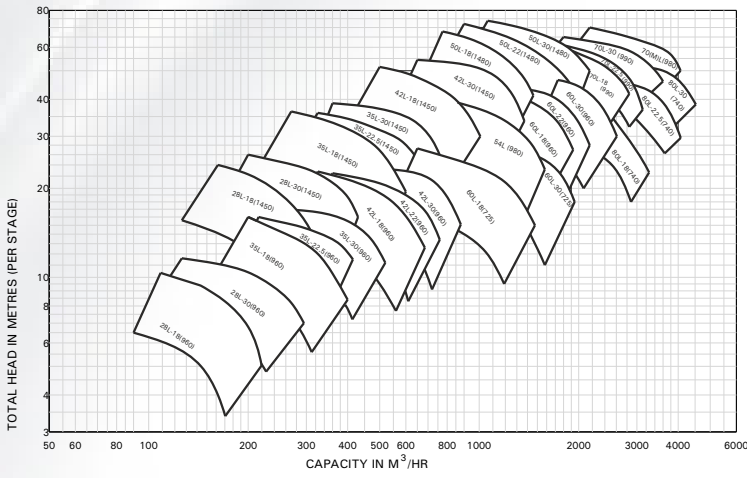
STANDARDISED MATERIAL OF CONSTRUCTION	
Strainer	Stainless Steel
Bell Mouth / Bowl / Impeller Guide Piece	Cast Iron with Corrocoat
Impeller	Stainless Steel
Wear Rings (Csg)	Zinc Free Bronze
Impeller Shaft / Intermediate Shaft / Head Shaft	Stainless Steel
Shaft Sleeves	Stainless Steel
Transmission Bearings	Orkot - Self Lub. Polymer Brg
Taper / Column Pipe	MS with Sigma-guard Coat
Discharge Head	MS Fabricated with Coating (Inner Bend)
Thrust Bearing Type	Antifriction
Mechanical Seal Type	Cartridge Type
Fasteners	Stainless Steel

FAMILY CURVE

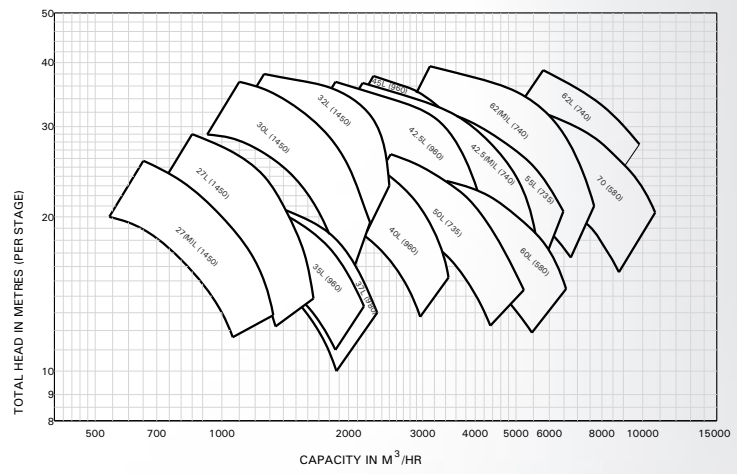
SCT and UP series of pumps at 50 Hz



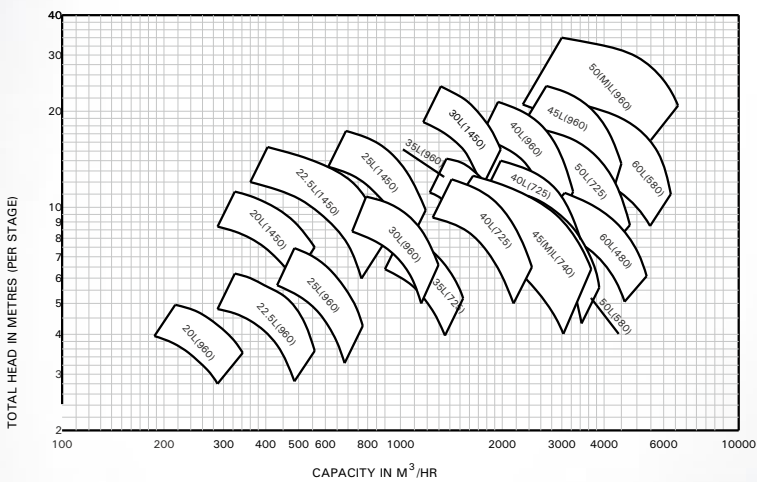
BHR PUMP 50 Hz



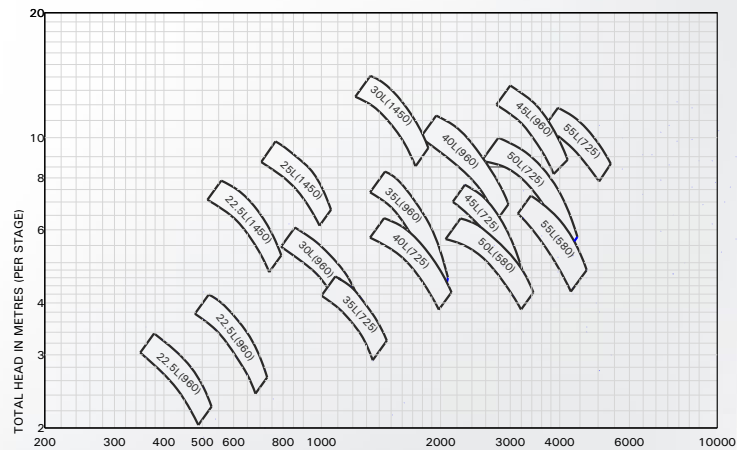
BHQ PUMP 50 Hz



BHM PUMP 50 Hz



BHMa PUMP 50 Hz





Enriching Lives

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