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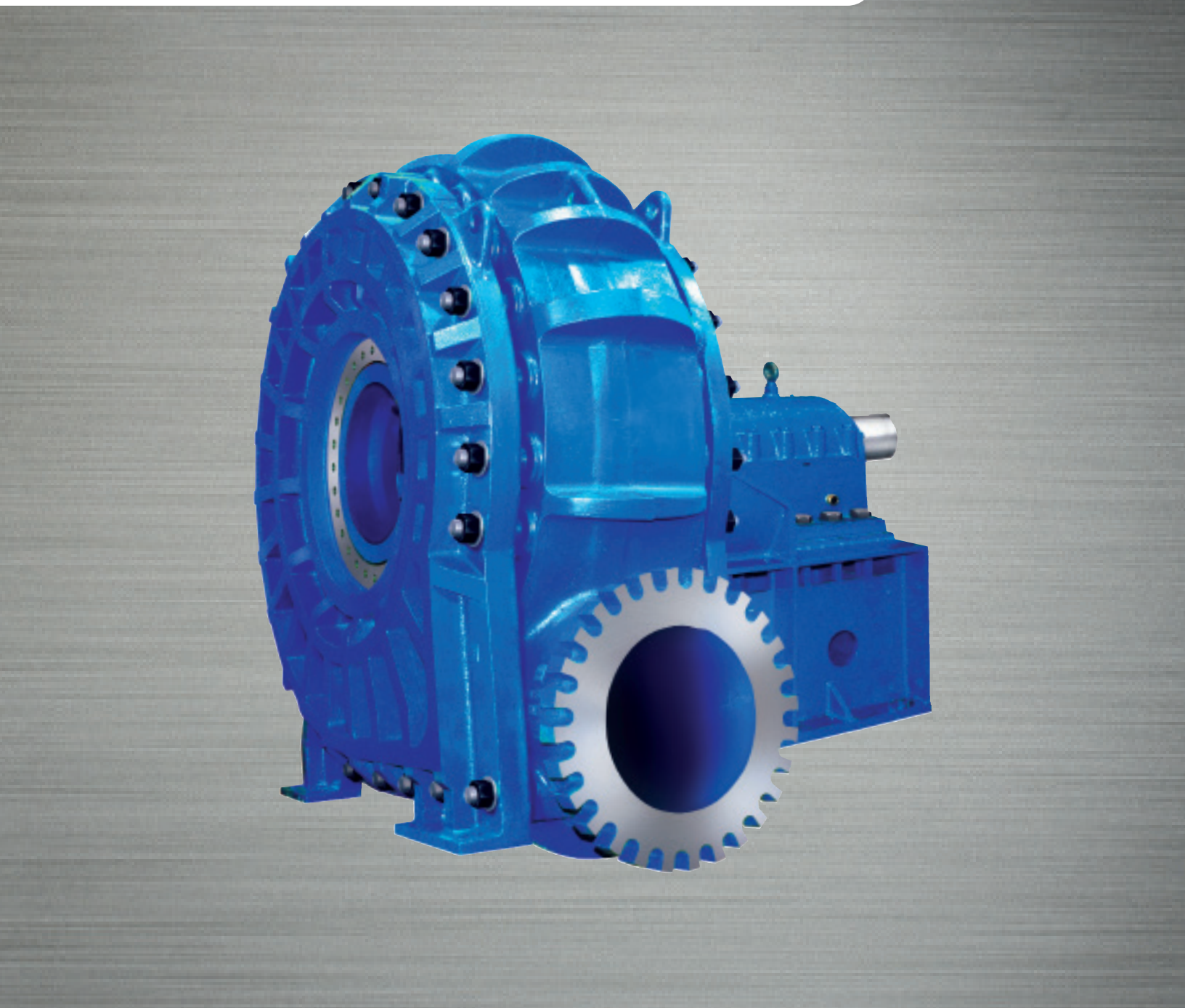
KSB MINING

LENNTECH
WATER TREATMENT SOLUTIONS

KSB

GIW® WBC for Long Distance Ore and Tailings Slurry Transport



Choose the GIW® WBC Pump for Severe Slurries

Wear Parts

- Impeller: Impeller designed for larger sphere passage.
- Replaceable Suction Liner: Facilitates pump internal inspection and minimizes wear part usage costs. Liner can be rotated at intervals to increase wear life.
- Pump Shell: Computer designed to optimize wear and efficiency and contain sudden pressure surges.

Efficiency

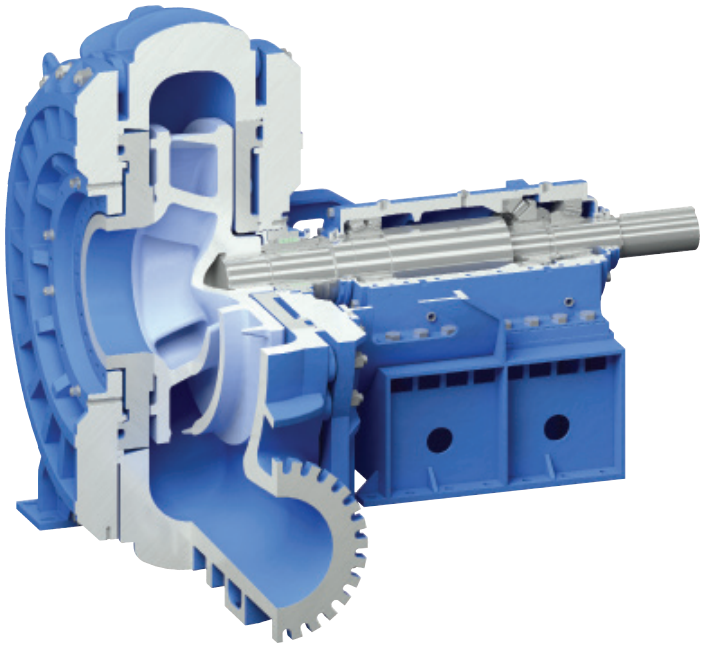
- Lower Specific Speed Design: Large diameter impeller allows the pump to run slower for better parts wear life. A lower specific speed also gives the pump the ability to operate over a wide range of flows to meet today's varying flow conditions.
- Superior Suction Performance: Designed for excellent Net Positive Suction Head Required (NPSHR) capabilities.

Maintenance Friendly

- Impeller Release Ring: Provides for easy impeller removal and is standard on all WBC pumps. The three piece segmented ring is mounted between shaft sleeve and shaft shoulder. Drastically reduces time for wet end change outs for less down time.

Mechanical End

- Robust stiffened shaft improves wear life of mechanical end. Split-cartridge bearing assembly with Labyrinth seals to protect shaft and bearings. Heavy duty radial bearings are self-aligning. Limited end float design greatly reduces shaft movement.



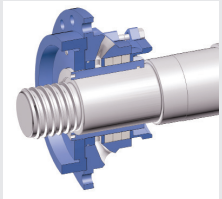
Reliability in Design

The WBC pump's patented design incorporates the latest hydraulic and wear technologies for heavy duty, high pressure applications. Its primary service is in ore transport lines that are subject to sudden pressure spikes.

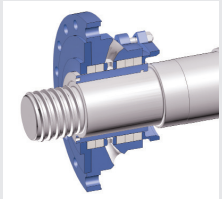
The pump shell is designed to virtually eliminate bending moments and stresses that cause a structural failure during a pressure surge. Non-wearing, ribbed suction and hub plates assist in containing surges, commonly referred to as water hammer. The WBC pump design is augmented by the use of rugged Gasite® alloys for superior abrasion resistance.

Easy access pedestal

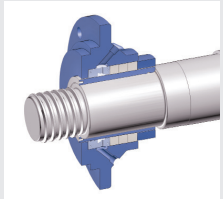
WBC shaft seals



Throat Bushing



Minimum Dilution



SpiralTrac™

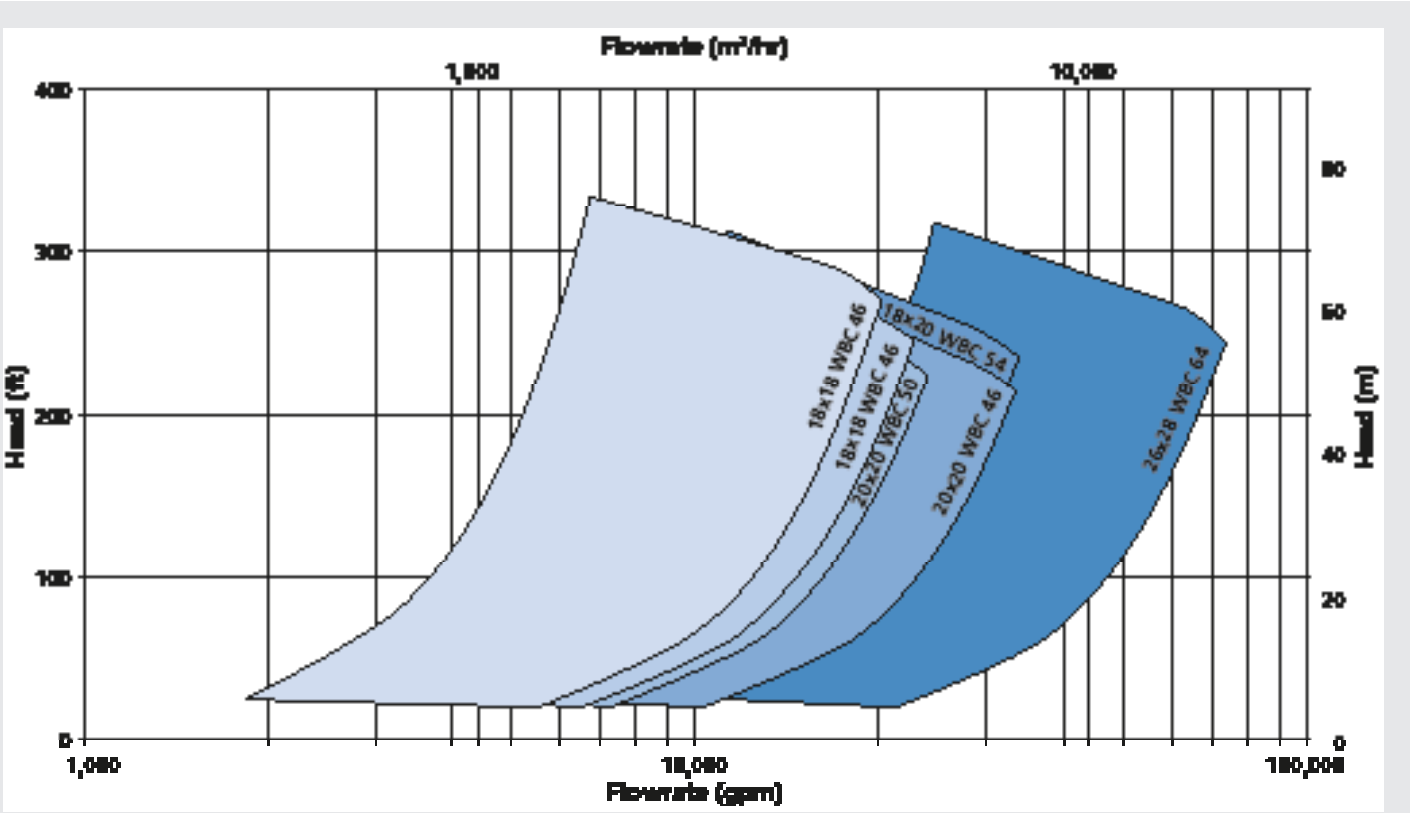
Technical Data	
Discharge	18 to 26 in (450 to 660 mm)
Flow rates	70,000 gpm (16,000 m³/h)
Total head	up to 260 ft (80 m)
Pressure rating	up to 460 psi (up to 32 bar)
Power rating	8,000 hp (5960 kW)

Applications

- Phosphate
- Tailings
- Ore slurries
- Hydraulic transport
- Pipeline booster stations

Whatever you need, it's here:

WBC offers a wide selection range



Assembly Number	Nominal Size		Free Passage		Vane Number & Type	Nominal IMP Diameter
	in	mm	in	mm		
9600D	18x18-46	450x450-1170	5x6	124x161	4 ME	44
9596D	18x18-46	450x450-1170	8x9	203x223	3 ME	46
9655D	18x20-54	450x500-1272	7x8	171x203	5 ME	54
9623D	18x20-54	450x500-1272	8x10	203x248	3 ME	54
9515D	18x20-54	450x500-1272	8x10	203x248	3 ME	54
9614D	18x20-54	450x500-1272	8x10	203x248	3 ME	54
9825D	18x20-54	450x500-1272	8x10	203x248	3 ME	54
9829D	18x20-54	450x500-1272	8x10	203x248	3 ME	54
9510D	20x20-46	500x500-1170	8x9	213x225	3 ME	45
9821D	20x20-46	500x500-1170	8x8	200x203	3 ME	45
9811D	20x20-46	500x500-1170	8x9	213x225	3 ME	45
1120E	20x20-52	500x500-1320	8x9.9	203x251	3 ME	52
1151E	20x20-52	500x500-1320	8.5x8.8	216x225	3 ME	52
9511D	26x28-64	660x700-1625	9x11	234x275	5 ME	64
9843D	26x28-64	660x700-1625	14x14	343x343	3 ME	67

LENNTECH
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GIW® Slurry Pumps

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