

One Source

KREBS® gravelMAX™ pumps



**gravelMAX™ pumps designed for
abrasive slurries with large solids**

FLSMIDTH
KREBS

KREBS® gravelMAX™ pumps

Industries & Applications

- Aggregates (Sand Plants, Cyclone Feed, Tailings)
- Dredging
- Coal
- Heavy-duty abrasive slurries
- Any application requiring large solids passing



gravelMAX™ pump in dredging application

Pump Size / Passing Size ►

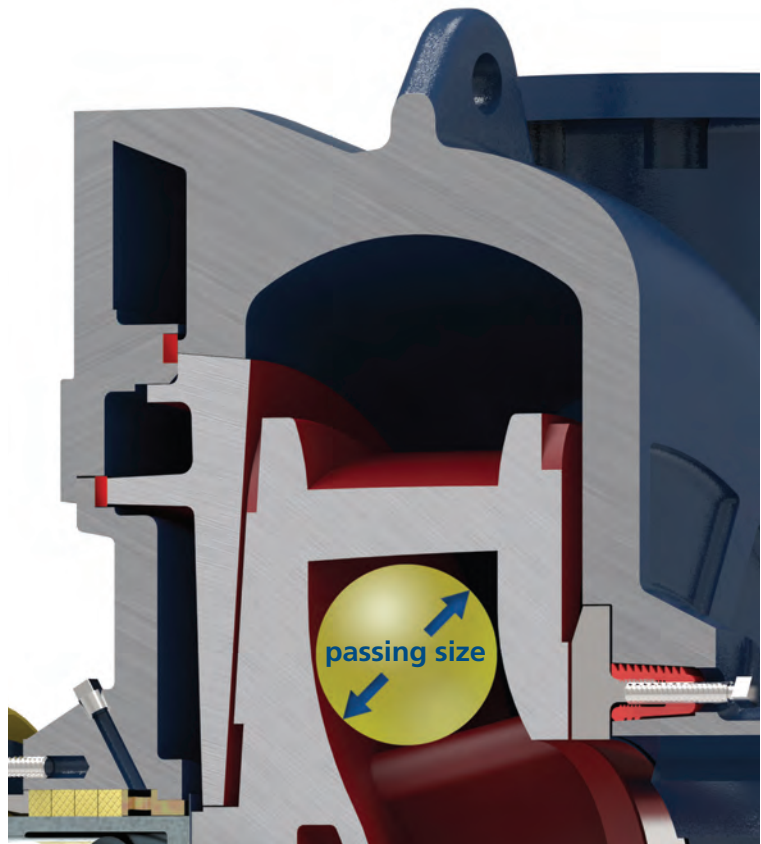
Size Range	Metric (mm)	Maximum Passing Size
6 x 4	150	2.75" (70mm)
8 x 6	200	5" (127mm)
10 x 8	250	6" (152mm)
12 x 10	300	7" (178mm)
14 x 12	350	8" (203mm)

gravelMAX™ Design

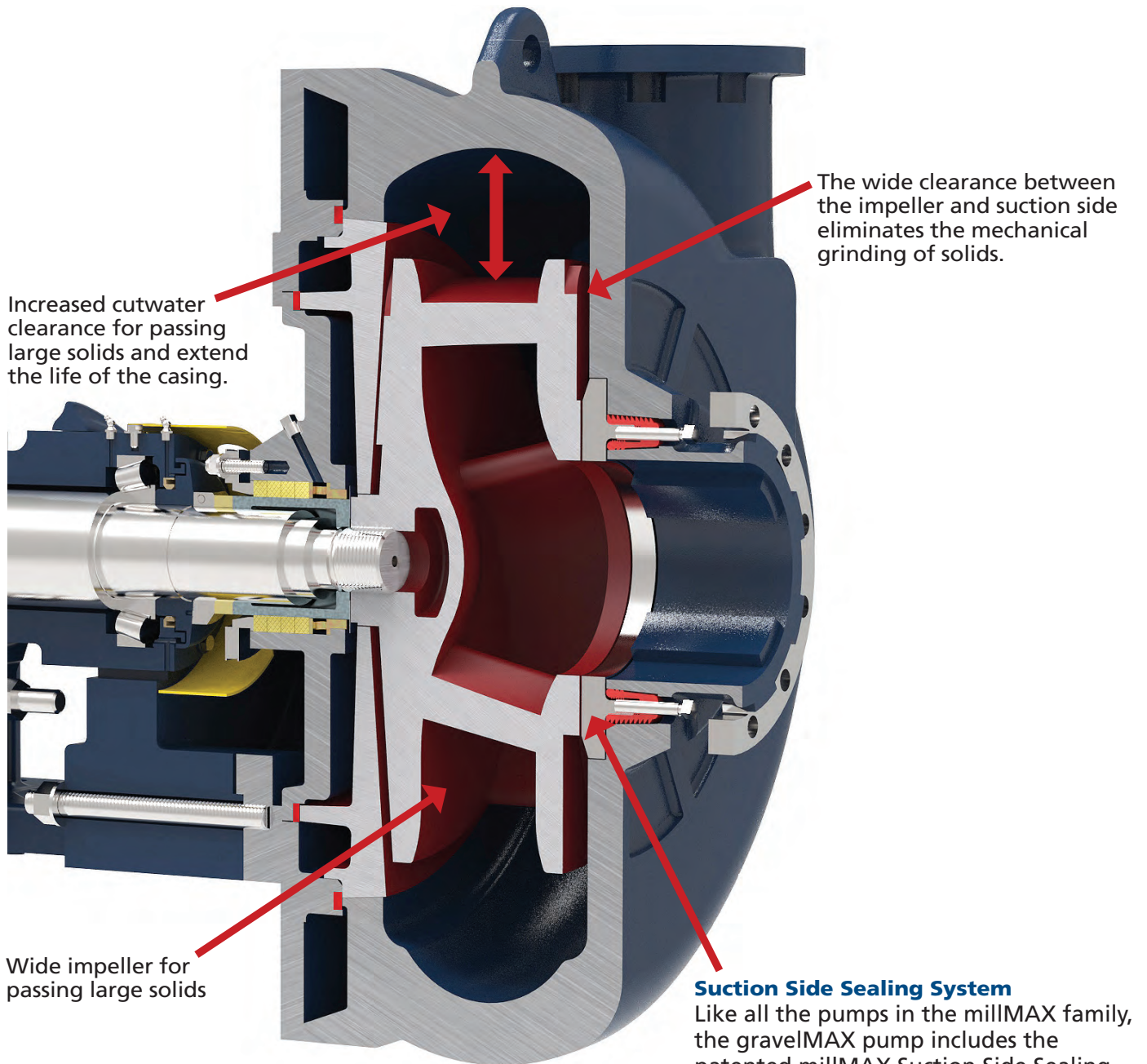
Many slurry pump applications in hard rock mining, coal, dredging, and other industries require the ability to pump large solids. Traditionally operators used open impellers or extremely oversized pumps to get the job done, however ineffectively. gravelMAX presents the perfect solution to optimize passing size, efficiency, and wear life for a centrifugal pump. This is due to wide impellers and large cutwater clearances for increased passing size and the fact that the patented millMAX Suction Side Sealing System eliminates the grinding of large solids.

Dredging Benefits

By eliminating the suction side recirculation that breaks the vacuum at the eye of the impeller on conventional pumps, the millMAX suction side sealing advantage allows the gravelMAX to pull in and pump a higher percent solids than any other dredge pump. Additionally, the large clearance between the impeller and the suction side liner ensures that solids are not ground up in the pump as they would be in conventional designs. The attributed power savings can be used to increase throughput or lower electricity consumption.



Effectively Pumping Large Solids



Maximum expected flow rate for a water flush seal at 10 psig (68.9 kPa) above pump discharge pressure

Power Frame	Full (gpm)	Full (m3/h)	Low (gpm)	Low (m3/h)
MMA	15	3.4	2.0	0.5
MMB	20	4.5	3.0	0.7
MMC	25	5.7	4.0	0.9
MMD	30	6.8	5.0	1.1

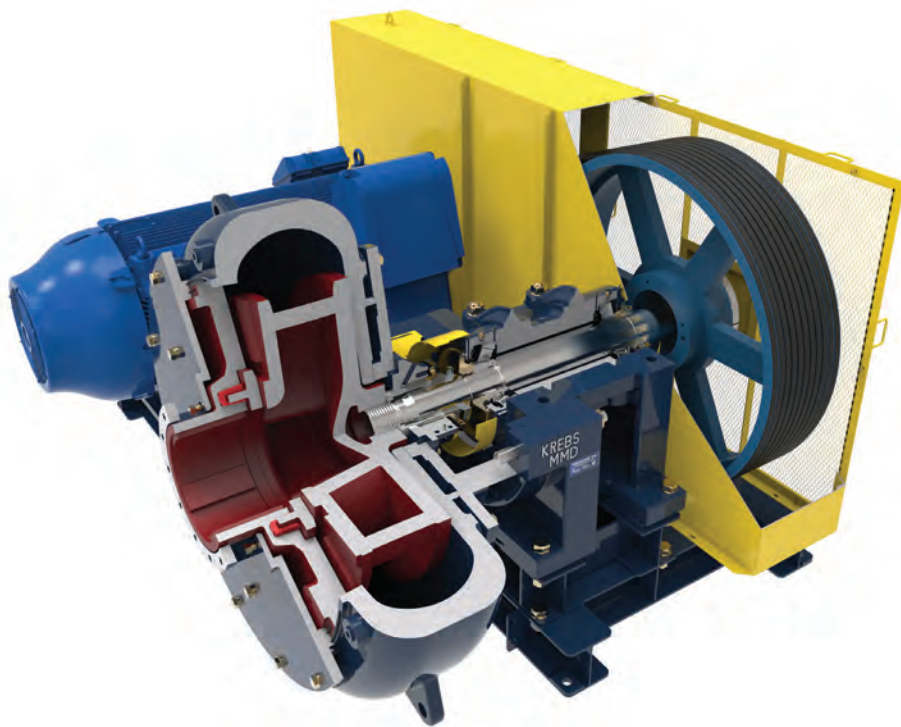
Suction Side Sealing System

Like all the pumps in the millMAX family, the gravelMAX pump includes the patented millMAX Suction Side Sealing System. This system reduces wear by maintaining initial clearances within the pump to reduce internal recirculation and eliminate solids grinding between the impeller and suction side.

Adjustment can be made while the pump is in operation. The result achieves a constant flow and pressure, without the need to speed up the pump. This extends the life of all wet end parts and reduces power consumption.

gravelMAX™ pumps

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gravelMAX pumps for Coal

The gravelMAX Pump is a unique design developed for passing large particles within abrasive slurries. Excellent for Heavy Media Cyclone Feed applications in coal processing.

- Pump larger solids
- Maintain cyclone pressure longer
- Reduce the cost per ton
- Adjust pump while running
- Longer service life

Increase Power & Reduce Costs

Krebs millMAX™ Pumps treat the cause of pump wear and loss of efficiency, whereas competitive pumps treat the symptoms through materials or predictive uneven wear rates.

FLSmidth Krebs Performance Test Lab

Complete product line testing in accordance with Hydraulic Institute and International Organization for Standardization guidelines and requirements. Product quality, compliance to regulatory requirements, continuous improvement and customer satisfaction are at the core of all efforts in the testing of our products. Testing is conducted in accordance with the latest industry accepted standards and utilizing the latest technology we are able to minimize error and evaluate the true performance of our product.



For more information on any of our products please contact one of our Regional Sales Offices below.

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