

The Orion series of Heavy & mining duty horizontal slurry pumps with double adjustment



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Total impeller wear clearance adjustment

Closing both back and front impeller running clearances permits optimum continuous performance of the pump. All adjustments can be made on installed pumps without disassembly.

Back pull-out design

Designed for ease of maintenance.

Taper roller bearings

Heavy duty grease lubricated bearings in a sealed cartridge designed for maximum bearing life. Double bearing arrangements available.

Seals

Double sealed with V-ring protected lip seal to ensure reliable operation.

Heavy duty shaft

Designed for tough services. High power transmission design with reduced impeller overhang for minimum shaft deflection and a maximum pump life.

Centrifugal seal arrangement

The expeller generates a high head and works in conjunction with expelling back vanes of the impeller to provide a highly effective seal against positive inlet heads without gland leakage. Performance improves with wear clearance adjustment at the back of the impeller. Abrasion resistant materials ensure wear life equivalent to the pump. Four rings of grease-lubricating packing, seal the pump while stationary.

Even wear design

Case and impeller are matched for minimum hydraulic turbulence for longer and more equally distributed impeller and case wear life.

Impeller design

Partial mixed flow main vanes reduce hydraulic shock losses at the suction eye. Large diameters and strategic mass distribution permit high head and high performance at slow speeds without the sacrifice of efficiency.

ANSI / Metric flanges as required

Suction and discharge flanges are split on all HM and MM pumps for optional flange configurations, ease of pipe connection and alignment. Rubber lined pumps have slotted flanges to allow most metric or ANSI flanges.

Wear resistant castings

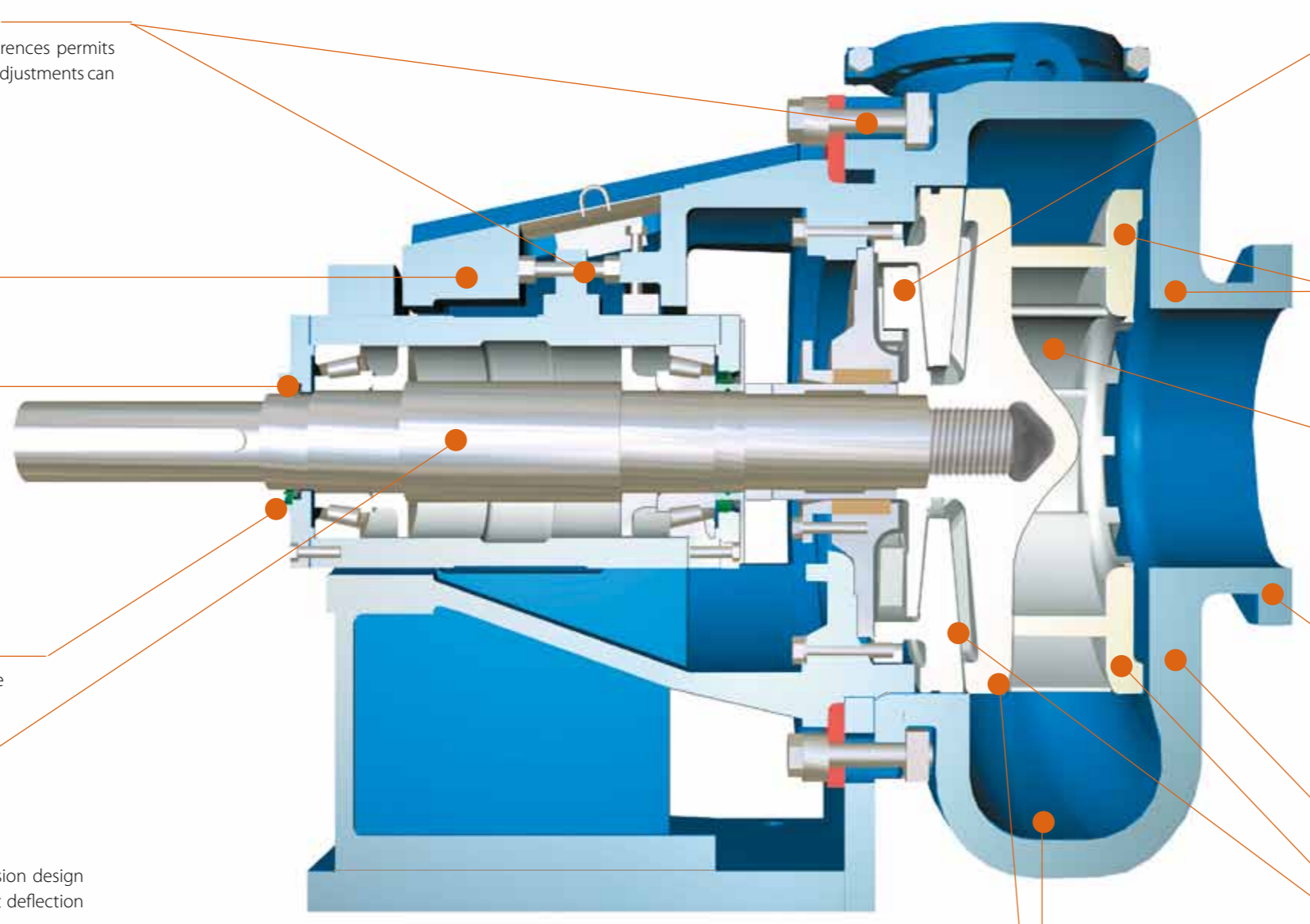
Strict metallurgical control and casting integrity with extra metal at known areas of severe wear.

Front and back expeller vanes

Double adjustment feature permits the use of narrow expelling vanes greatly reducing internal recirculation with minimal energy consumption.

Wet ends

Hard metal and rubber lined wet ends available.



Standard materials of construction*

Metal Standard	Casing HighChrome	Impeller HighChrome	Back liner HighChrome	Expeller HighChrome	Expeller ring HighChrome	Shaft sleeve HighChrome	Shaft Carbon steel	Seals Nitrile
Rubber Standard	Case liners Natural rubber	Impeller Natural rubber	Backliner Natural rubber	Expeller HighChrome	Expeller ring Natural rubber	Shaft sleeve HighChrome	Shaft Carbon steel	Seals Nitrile

*Consult factory for available options