



THE RIGHT PUMP FOR  
TOUGH JOBS

**KZN-SERIES**

**HEAVY DUTY SUBMERSIBLE AGITATOR / SLURRY PUMPS**



*ENGINEERED TO TACKLE THE TOUGHEST APPLICATIONS & BUILT TO LAST WHERE OTHERS FAIL.*

**motralec**

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# KZN-SERIES

**KZN** - Heavy Duty Submersible Slurry Pumps with agitator is the choice of industries that face the most difficult pumping:

Lime slurries  
Wash down sumps  
Slag pits

Mill scale  
Ash transfer  
Food wastes  
Sand & gravel dewatering  
Barge & tank cleanout

Coal runoff sumps  
Tailings ponds  
Silt removal

## TOP 3 REASONS WHY YOU SHOULD CHOOSE THE KZN...

# 1 **EVERY** KZN slurry pump is constructed with the following abrasive resistant 28% chrome iron (600 Brinell, 57 Rockwell C) components;

- Agitator - to fluidize settled solids into a slurry.
- Wear plate - replaceable hardened surface on the suction side where erosion would cause a loss of pump performance.
- Semi- open Impeller - to handle abrasive solid concentrations as high as 70% by weight.



High-Chrome Agitator helps keep solids suspended in liquid and helps prevent pump from clogging.

# 2 **EVERY** KZN slurry pump model is protected by;

- Class H motor insulation - and built in amperage (FLA) and temperature overload protection.
- Double silicon carbide mechanical seals - in a separate oil filled seal chamber.
- Heavy Duty Lip Seal – additional protection for the mechanical seals.
- Stainless steel shaft and shaft sleeve – saves on shaft wear due to abrasives and corrosion.
- Pump volutes cast from hardened Ductile Iron - 300 Brinnell hardness; twice as abrasive resistant as standard ductile iron.

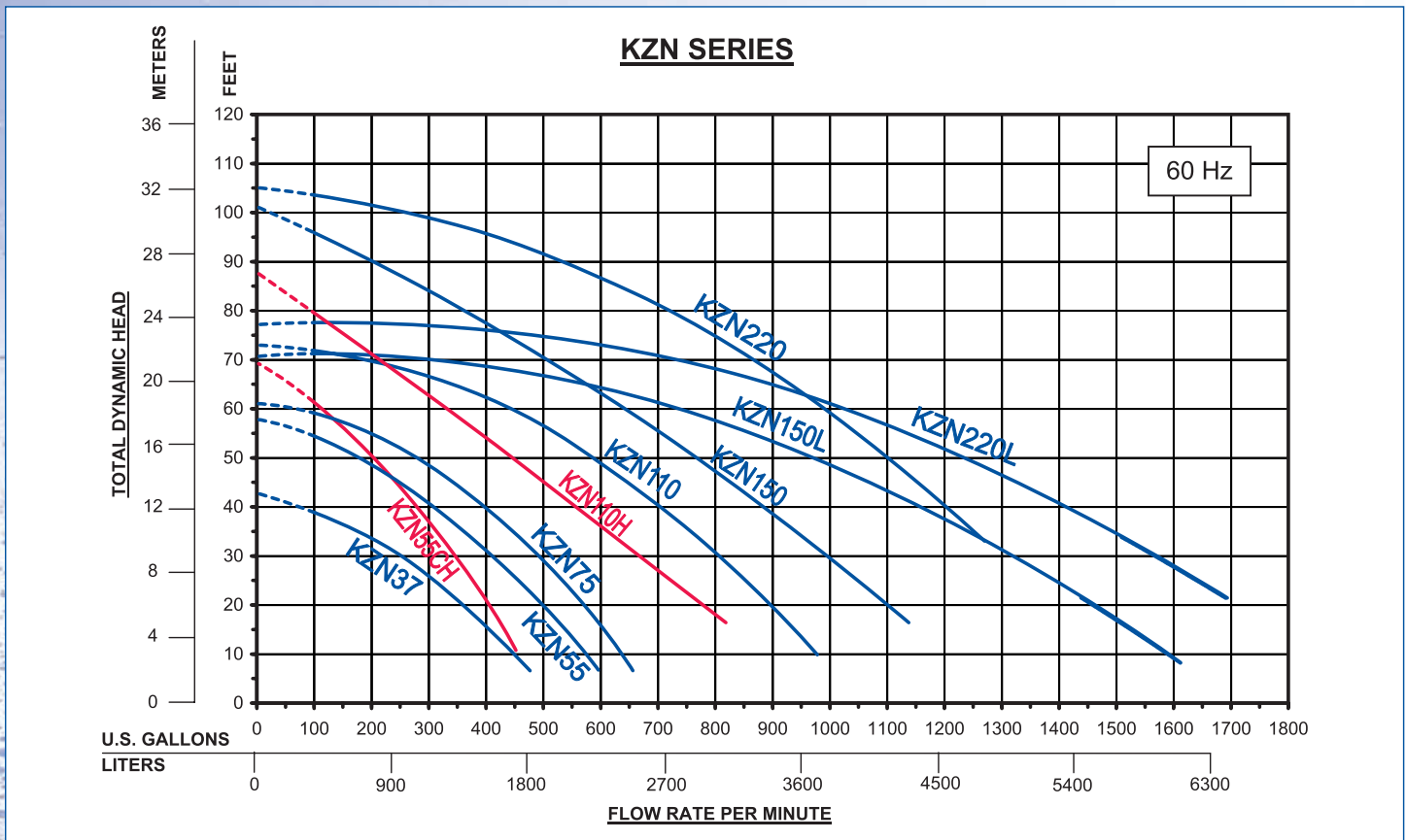
# 3 **EVERY** KZN is a top discharge pump;

KZN heavy duty slurry pumps are utility pumps; frequently dragged from one site to another. The KZN doesn't have a side discharge connection that can break off or be damaged as it is pulled and pushed into place.

- Top discharge pumps are cooled by pumped liquid - The KZN slurry pumps can pump a sump or pit down to within "inches" of the bottom. A side discharge pump without a cooling jacket must stay submerged to avoid overheating, leaving as much as 3 feet of un-pumped slurry.
- Top discharge means "SLIM" - even the largest model with a 22.75 inch "waistline" will fit down a manhole with a hose attached.
- The KZN's hardened ductile iron volutes - cast with extra thick walls at the point where pumped slurry enters the discharge.

# KZN-SERIES

EVERY KZN slurry pump is constructed with abrasive resistant 28% chrome iron (600 Brinell, 57 Rockwell C) impeller, wear plate & agitator.



## SPECIFICATIONS:

MODEL	DISCH. SIZE	H.P.	VOLT	RATED AMPS	MAX SOLIDS	MAX HEAD	MAX GPM	WEIGHT LBS	HEIGHT	WIDTH
KZN 37	3"	5	230/460	13.5/6.8	7/8"	42'	475	370	32.3"	16.5"
KZN 55	4"	7.5	230/460	19.5/9.5	1"	57'	594	385	32.3"	16.5"
KZN 55CH	3"	7.5	230/460	19.5/9.5	1"	69'	449	420	32.3"	17.25"
KZN 75	4"	10	230/460	26/13	1"	61'	655	397	33.0"	16.5"
KZN 110	6"	15	230/460	35/17.5	1 3/8"	72'	977	667	43.3"	21.5"
KZN 110H	4"	15	230/460	35/17.5	1 3/8"	87'	819	680	43.3"	21.5"
KZN 150	6"	20	460	26	1 1/2"	101'	1136	680	45.0"	21.5"
KZN150L	6"	20	460	26	1 1/2"	70'	1611	680	45.0"	21.5"
KZN 220	6"	30	460	39	1 1/2"	105'	1268	1275	52.2"	22.75"
KZN 220L	6"	30	460	39	1 1/2"	77'	1690	1275	52.2"	22.75"

Specifications subject to change without notice.

### Power Supply:

All pumps are 3 phase, 1750 rpm., and have Class H motor insulation.

\* Other voltages and HZ available.

\*\* All pumps supplied with 50' power cord. Custom cable lengths available.

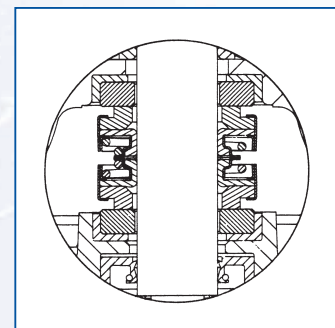
\*\*\* Seal Minder available for all models.

### Shaft Seal:

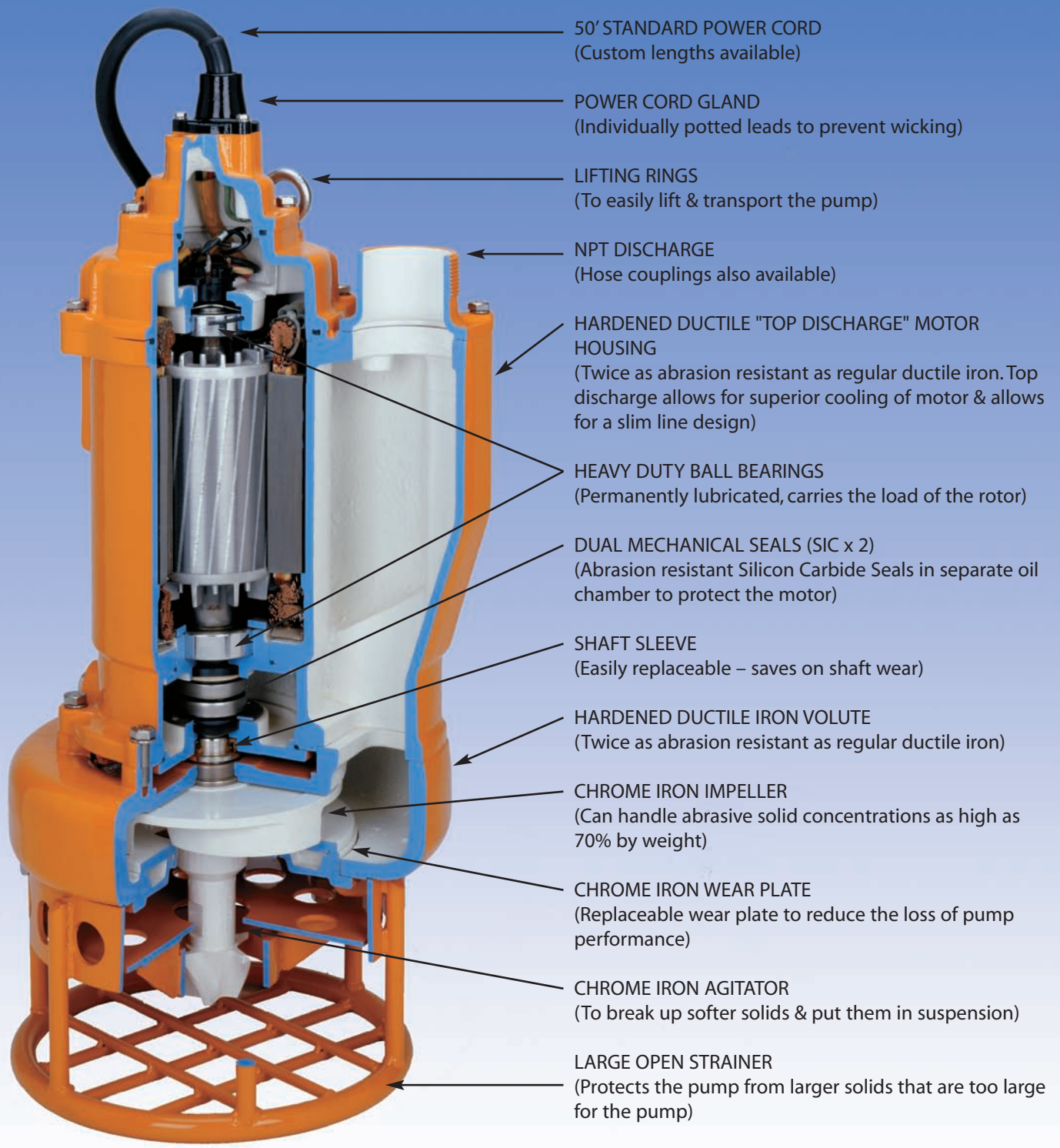
Dual Mechanical Seals (Sic) x 2;

Single or Dual lip-seals (dependant on model).

Replaceable Shaft Sleeve for inexpensive maintenance.



- Triple protection sealing system
- Double Silicon Carbide Mechanical Seals in Oil Chamber
- Oil Seal Ring outside of Oil Chamber



- 50' STANDARD POWER CORD  
(Custom lengths available)
- POWER CORD GLAND  
(Individually potted leads to prevent wicking)
- LIFTING RINGS  
(To easily lift & transport the pump)
- NPT DISCHARGE  
(Hose couplings also available)
- HARDENED DUCTILE "TOP DISCHARGE" MOTOR HOUSING  
(Twice as abrasion resistant as regular ductile iron. Top discharge allows for superior cooling of motor & allows for a slim line design)
- HEAVY DUTY BALL BEARINGS  
(Permanently lubricated, carries the load of the rotor)
- DUAL MECHANICAL SEALS (SiC x 2)  
(Abrasion resistant Silicon Carbide Seals in separate oil chamber to protect the motor)
- SHAFT SLEEVE  
(Easily replaceable – saves on shaft wear)
- HARDENED DUCTILE IRON VOLUTE  
(Twice as abrasion resistant as regular ductile iron)
- CHROME IRON IMPELLER  
(Can handle abrasive solid concentrations as high as 70% by weight)
- CHROME IRON WEAR PLATE  
(Replaceable wear plate to reduce the loss of pump performance)
- CHROME IRON AGITATOR  
(To break up softer solids & put them in suspension)
- LARGE OPEN STRAINER  
(Protects the pump from larger solids that are too large for the pump)



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