



 **BJM Pumps**

# Hard Metal Agitator Slurry Pumps



**KZN & KZNR Series**

# KZN Series Hard Metal Agitator Slurry Pumps

BJM Pumps is the top choice for the most difficult slurry, sand and sludge pumping applications. Our KZN pumps are among our most popular pumps as they are engineered specifically for the tough applications you deal with in:

- Mining/Coal Mining
- Hydraulic Fracking
- Mineral Processing
- Steel Production
- Drilling Mud Transfer
- Slurry Transfer
- Sand and Gravel
- Lime Slurry
- Fly Ash

Our durable pumps are built to keep your production running to save you maintenance, repair, labor and downtime costs. To learn more about getting “the pump you need, guaranteed,” visit [www.bjmpumps.com](http://www.bjmpumps.com) or call 860-399-5937.



## Key Benefits of KZN

### Abrasion-Resistant 28% Chrome Iron (600 Brinell, 57 Rockwell C) Components

**Agitator:** Keeps solids from settling at the bottom to prevent clogging

**Wear Plate:** Easily replaceable to keep pump performing like new longer

**Impeller:** Slurry-type, semi-open design handles the most abrasive slurries

### Superior Protection

**Class H motor insulation** with integral amperage (FLA) and temperature overload protection

**Double silicon carbide mechanical seals** in a separate oil-filled seal chamber

**Heavy duty lip seal** to protect seal chamber from solids migration

**Hardened ductile iron volute** with 300 Brinell hardness for twice the abrasion resistance of standard ductile iron

### Top Discharge Design

**Portability and Durability:** KZN pumps are not easily damaged when moved from one project to another and pushed/pulled into place

**Cooled by Pumped Liquids:** KZN pumps can remove liquids to within inches of the bottom while side discharge pumps leave up to three feet of liquid because it must remain submerged to avoid overheating

**Slim Design:** The largest KZN model has a maximum 22.75-inch diameter, making it fit in tighter spaces than side discharge pumps



## KZNR Series Severe Duty Slurry Pumps

Some slurry solids are so abrasive that pump service life depends on an extremely hardened casting. BJM Pumps' KZNR Series pumps offer this level of casting through a proprietary process that hardens the ductile iron volutes to 71 Rockwell C (compared to Class 30 ductile iron for the KZN Series). The KZNR Series are severe duty slurry pumps that can stand up to extreme abrasiveness. For complete specifications, visit [www.bjmpumps.com](http://www.bjmpumps.com) or call 860-399-5937.

## Features



### **50-Ft. Power Cable**

UL/CSA/MSHA-approved cable with custom length and optional Seal Minder® available

### **Cable Entry Sealing System**

FKM compression fitting with SS gland nut and seal cable. Individually isolated and potting power leads to prevent wicking

### **Heavy Duty Lifting Rings**

To lift & transport the pump easily

### **NPT discharge**

Hose barb fittings or cam-lock fittings available

### **Hardened Ductile Top Discharge Motor Housing**

Twice as abrasion resistant (300 BHN) as ductile iron. Top discharge design allows for superior motor cooling and slim profile for fitting tight spaces

### **Heavy Duty Ball Bearings**

Double shielded grease lube bearings designed to extend bearing life under heavier specific gravity slurries

### **Dual Mechanical Seals (Sic x 2)**

Abrasion resistant Silicon Carbide seals in separate oil chamber to protect the motor

### **Optional Seal Minder® Moisture Detection System**

Provides early warning to protect motor

### **Shaft Sleeve**

Easily replaceable, saves on shaft wear and prevents solids migration into seal chamber

### **Hardened Ductile Iron Volute**

Hardened ductile iron (300 BHN) volute is standard. Optional coatings are available to extend the volute life under severely abrasive services

### **Chrome Iron Impeller**

28% chrome iron slurry type semi-open impeller design to handle the most abrasive slurries

### **Chrome Iron Wear Plate**

28% high chrome iron replaceable wear plate. Will keep pump performance like new longer, under the most demanding applications

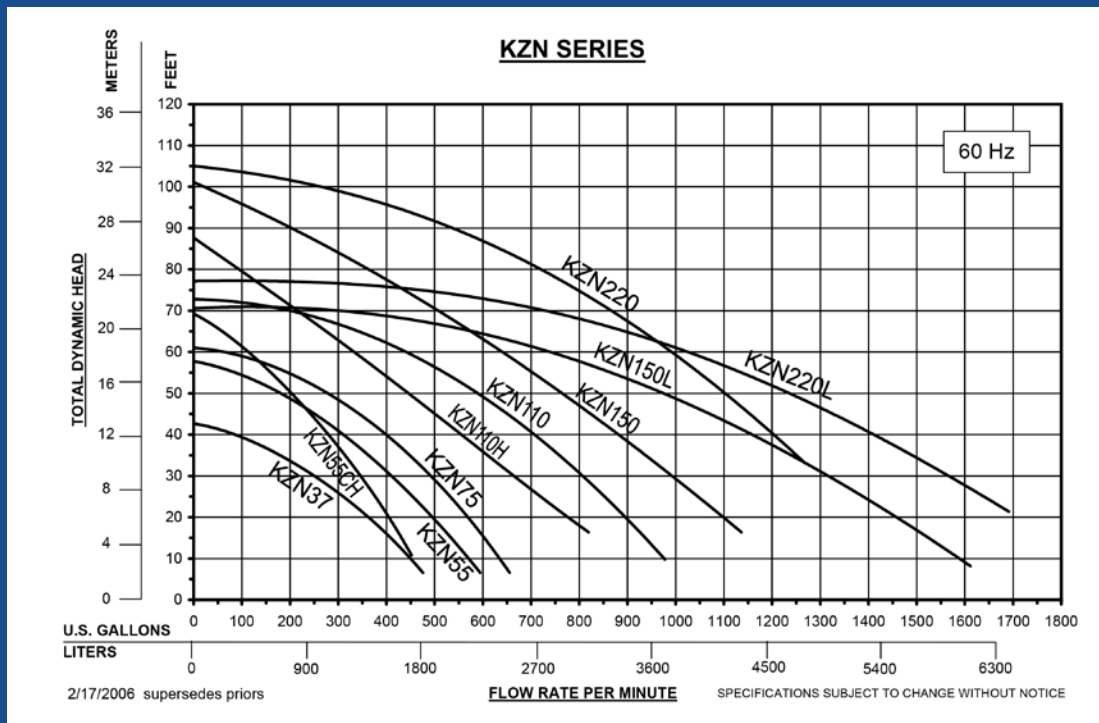
### **Chrome Iron Agitator**

28% high chrome iron hard metal agitator. Designed to agitate settled solids for easier pumping and removal

### **Large Open Strainer/Stand**

Keeps pump suction off the bottom to allow agitation of solids and protects pump inlet from larger solids that could block the impeller

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



| MODEL   | DISCH. SIZE | H.P. | VOLT    | RATED AMPS | MAX SOLIDS | MAX HEAD | MAX GPM | HEIGHT | WIDTH  | PUMP WEIGHT LBS | EST SHIP WEIGHT LBS |
|---------|-------------|------|---------|------------|------------|----------|---------|--------|--------|-----------------|---------------------|
| KZN37   | 3"          | 5    | 230/460 | 17/8.5     | 7/8"       | 42'      | 475     | 32.3"  | 16.5"  | 319             | 380                 |
| KZN55   | 4"          | 7.5  | 230/460 | 19.5/9.5   | 1"         | 57'      | 594     | 32.3"  | 16.5"  | 332             | 385                 |
| KZN55CH | 3"          | 7.5  | 230/460 | 19.5/9.5   | 1"         | 69'      | 449     | 32.3"  | 17.25" | 367             | 420                 |
| KZN75   | 4"          | 10   | 460     | 13         | 1"         | 61'      | 655     | 33.0"  | 16.5"  | 344             | 410                 |
| KZN110  | 6"          | 15   | 460     | 17.5       | 1 3/8"     | 72'      | 977     | 43.3"  | 21.5"  | 563             | 667                 |
| KZN110H | 4"          | 15   | 460     | 17.5       | 1 3/8"     | 87'      | 819     | 43.3"  | 21.5"  | 576             | 680                 |
| KZN150  | 6"          | 20   | 460     | 26         | 1 1/2"     | 101'     | 1136    | 45.0"  | 21.5"  | 576             | 680                 |
| KZN150L | 6"          | 20   | 460     | 26         | 1 1/2"     | 70'      | 1611    | 45.0"  | 21.5"  | 576             | 680                 |
| KZN220  | 6"          | 30   | 460     | 39         | 1 1/2"     | 105'     | 1268    | 52.2"  | 22.75" | 1144            | 1275                |
| KZN220L | 6"          | 30   | 460     | 39         | 1 1/2"     | 77'      | 1690    | 52.2"  | 22.75" | 1144            | 1275                |

WARNING: NOT FOR USE IN ANY FLAMMABLE LIQUIDS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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