PumpEng

JetGuard

METAL IS BEST PumpEng




# Protect Your Pumps Against Shotcrete Polyfibre

**Tough Pump for the Modern Miner.**
**Many dewatering pumps were designed before Shotcrete was widely used in underground mining. Shotcrete fibres are now a major cause of underground dewatering pump failure and production delay. In a multi-million dollar operation, even small delays can be expensive.**

## Benefits of JetGuard® for Mining Operators

### *Performance*

Increase mine performance, productivity and profit by reducing breakdowns and delays.

### *Safety*

Reduce workplace hazards by reducing the number of breakdowns.

### *Cost*

Reduce equipment lifecycle cost by increasing total pump life.

AUSTRALIA PATENTED USA · CANADA

**Patent Numbers:**
**AUSTRALIA - 2015230662 | CANADA - 2941904 | USA - 10514047**
**CHILE 59.801 | SOUTH AFRICA 2016/06902**

Franklin Electric

# About Us

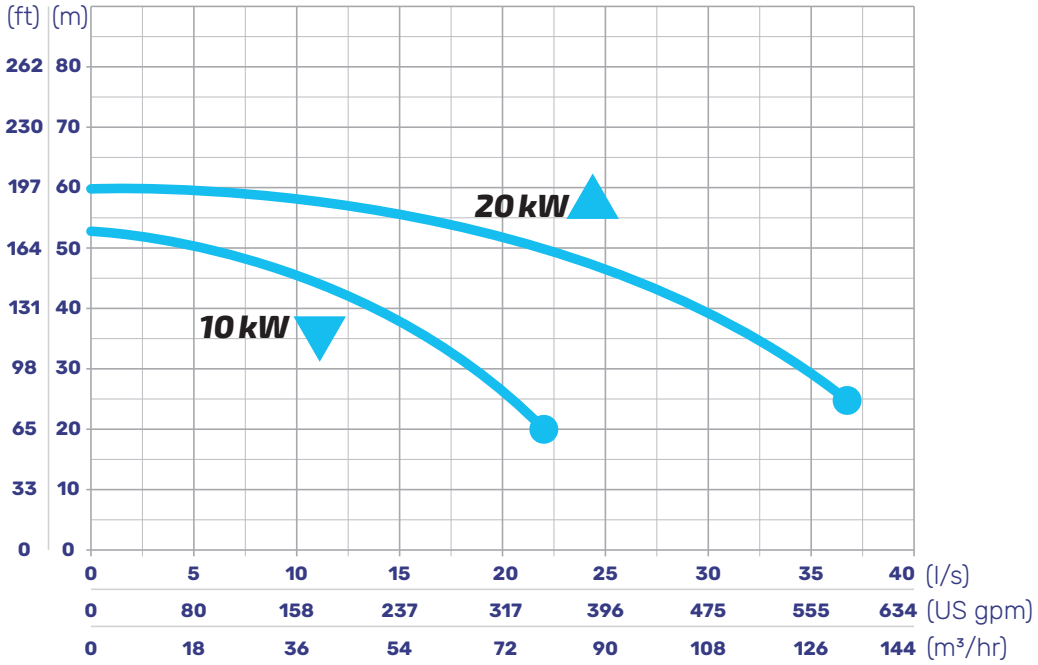
**PumpEng is on a mission to redefine underground mine dewatering, prioritising excellence at every turn. Our commitment to innovation, reliability, availability, and personalised support throughout the product lifecycle ensures every mine operator a good day at work.**

PumpEng is an Australian-based global Original Equipment Manufacturer (OEM) with a rich history of supplying submersible pumps to the mining sector. Renowned for excellence and innovative pumping solutions, we are a trusted global mining partner. Our core competencies include submersible pump design, manufacture, assembly and application guidance. A commitment to eco-friendly solutions reflects environmental responsibility.

Our client-centric approach fosters enduring partnerships worldwide, providing exceptional service and support. PumpEng upholds the highest standards and meets international regulations. PumpEng stands as a beacon of global OEM manufacturing, epitomising reliability, innovation, and customer-centricity for the mining sector. We're available, supportive, innovative and consultative.



## Power Curves (50 & 60Hz)

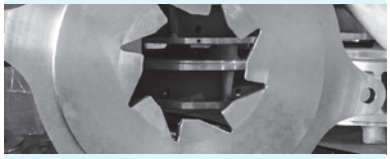








Hydraulic barrier to keep fibre out



Cutting plate to chop fibre down



Metal wet end for longer pump life

# JetGuard® Specifications

| Model | kW (Hp) | Discharge | Voltage (Hz) | Solids Passage in mm | Max Head m (ft) | Max Flow l/s (gpm) | Max Diameter mm | Height mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| **JP1041291** | 10 (14) | 80mm | 415 (50) | 5 | 53 (173) | 23 (365) | 358 | 780 | 140 |
| **JP1041391** | 10 (14) | 80mm | 1000 (50) | 5 | 53 (173) | 23 (365) | 358 | 780 | 140 |
| **JP1041491** | 10 (14) | 80mm | 600 (60) | 5 | 53 (173) | 23 (365) | 358 | 780 | 140 |
| **JP1041591** | 10 (14) | 80mm | 480 (60) | 5 | 53 (173) | 23 (365) | 358 | 780 | 140 |
| **JP1041791** | 10 (14) | 80mm | 1000 (60) | 5 | 53 (173) | 23 (365) | 358 | 780 | 140 |
| **JP2031291** | 20 (27) | 100mm | 415 (50) | 5 | 60 (196) | 37 (586) | 475 | 787 | 180 |
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| Motor Specifications | |
|---|---|
| **Pole** | 2-Pole |
| **Insulation Class** | Class F/H |
| **Motor Power Details** | 1000V, 415V 50Hz<br>480V, 600V & 1000V 60Hz |
| **Max Liquid Temp** | Fluid at 40°C |
| **Max Submergence** | 22m |

| Pump Specifications | |
|---|---|
| **Impeller** | 27 Chrome |
| **Wear Parts** | 27 Chrome / CD4 |
| **Mechanical Seal** | TC/TC/SS |
| **Bearing** | Heavy duty bearings |
| **Outer Jacket** | Stainless Steel |
| **Shaft** | Stainless Steel |

## Why The JetGuard® Pump Range Is Better:

### 1. Protected - Less Fibre Gets In

A hydraulic curtain repels surface fibre, and the suction strainer intake is on the bottom of the pump, not the side. So less Shotcrete fibre gets inside. If any fibres do get in, a cutter plate chops up fibres into tiny pieces.

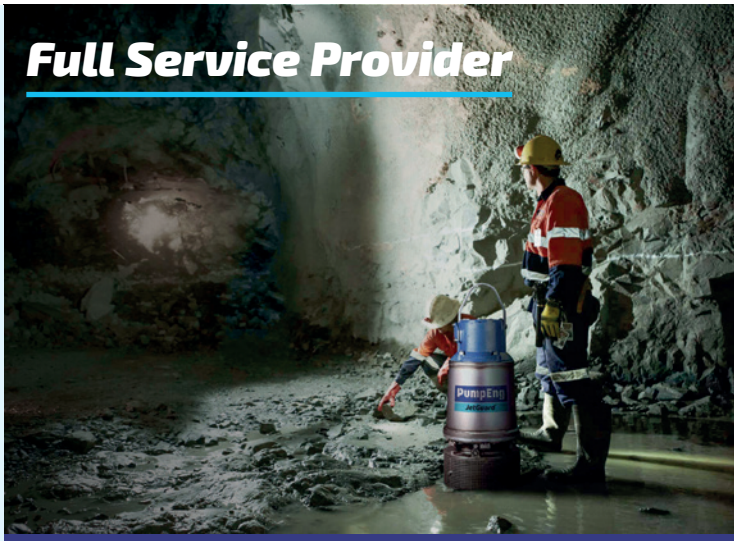
### 2. Toughened - Metal Is Best

Internal components in the wet end are tough metal, not elastomer. Fibre and tramp can more quickly destroy elastomer components, while toughened steel components power on. The mechanical seal is in a non pressurised zone, away from the high pressure discharge area and removed from the fluid/Shotcrete path. JetGuard® is dry run tolerant and can run on the snore.

### 3. Productive - Less Downtime More Production

JetGuard® has been designed for tough environments, to keep on pumping when traditional dewatering pumps might fail. Less mining downtime, more production.

## Full Service Provider



PumpEng® offers a full range of services for submersible pumps including:

- **Hire**
- **Spare Parts**
- **Repairs**
- **Ongoing Support**

# PumpEng

**Tough Submersible Pumps**

## Explore Your Options

### PumpEng Pty Ltd

**Perth**
(08) 9434 9922
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Forrestdale WA 6112

**Kalgoorlie**
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55 Oroya Street
Boulder WA 6432

**Adelaide**
(08) 8448 9830
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Regency Park SA 5010

**Townsville**
(07) 4766 3160
64-66 Crocodile Crescent
Mount St John QLD 4818

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635 5th Ave West
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### Email Direct

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### International Distribution Network



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