

# PumpEng

## JetGuard



# 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.

### Patent Numbers:

AUSTRALIA - 2015230662 | CANADA - 2941904 | USA - 10514047  
CHILE 59.801 | SOUTH AFRICA 2016/06902

**PATENTED**

AUSTRALIA

USA • CANADA



## About Us

**PumpEng® is an Australian owned and operated business with a proud history of manufacturing and supplying submersible pumps to the underground and surface mining sector.**

Our JetGuard® pumps and parts are Australian designed and manufactured.

We formed PumpEng® to improve the design of mass-produced pump components for Australian operating conditions. We consulted with Australian maintenance and mining staff and used our own expertise gained through our long association

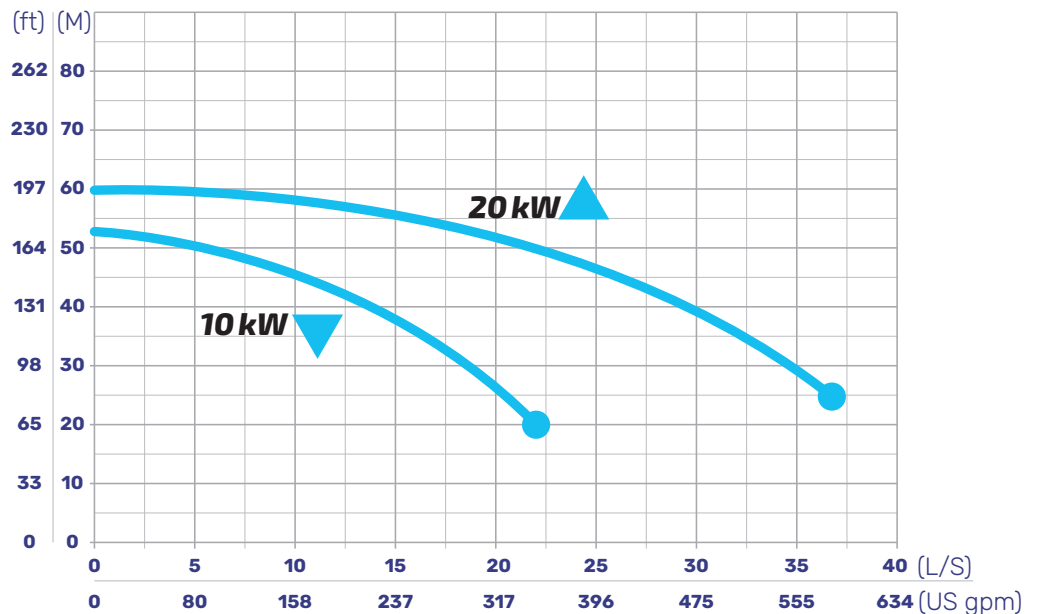
with the mining industry.

We manufacture in small batch runs using special materials to allow for quick design changes so we can reduce operating and maintenance costs through innovative design.

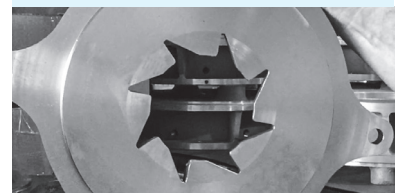
Our results and a long list of satisfied clients that have joined us on the journey to a good day at work is testimony to this.



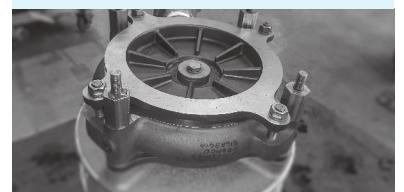
## Power Curves (50Hz & 60Hz)



Hydraulic barrier to keep fibre out



Cutting plate to chop fibre down



Metal wet end for longer pump life

# JetGuard® Specifications

Model	kW	Discharge	Voltage	Solids Passage in mm	Max Head in m	Max Flow l/s	Max Diameter mm	Height mm	Weight kg
JP1041291	10	80mm	415V	5	53	23	358	780	140
JP1041391	10	80mm	1000V	5	53	23	358	780	140
JP1041491	10	80mm	600V	5	53	23	358	780	140
JP1041591	10	80mm	480V	5	53	23	358	780	140
JP2041291	20	100mm	415V	5	60	37	475	787	180
JP2041391	20	100mm	1000V	5	60	37	475	787	180
JP2041491	20	100mm	600V	5	60	37	475	787	180
JP2041591	20	100mm	480V	5	60	37	457	787	180

Motor Specifications	
Pole	2-Pole
Insulation Class	Class F/H
Motor Power Details	1000V, 415V 50 cycle 600V, 480V 60 cycle
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



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### International Distribution Network

