



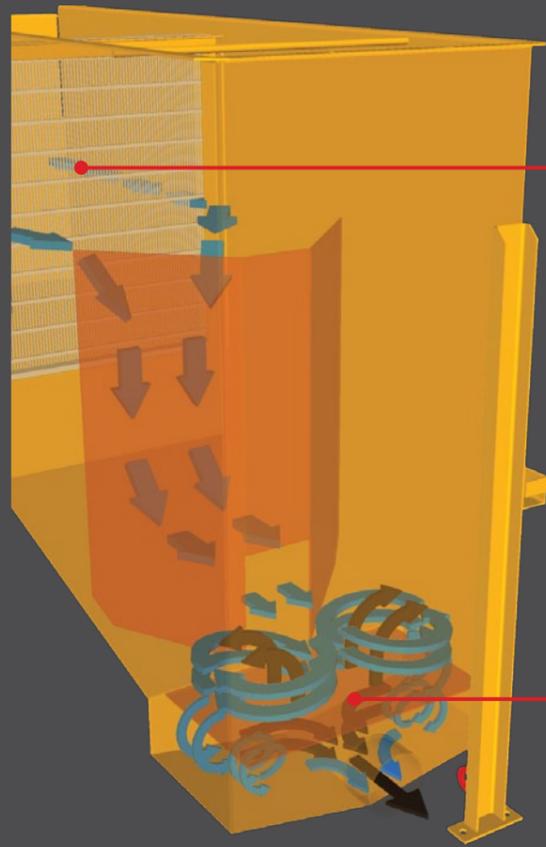
Mine De-Watering Solutions



Revolutionising  
Solids Management in  
Underground Mine  
De-Watering Pump  
Systems

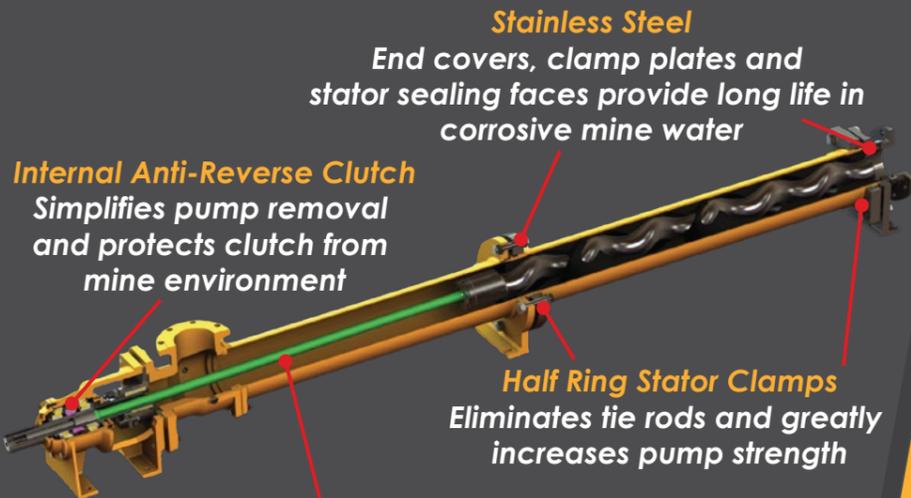
**X3** *vortex*  
**mixer tank**

**The World's Best Travelling Decline Pump System**



**Wedge Wire Screen**  
Removes all hard angular solids  
Innovative wedged screen design allows for easy backwashing

**Self Cleaning Vortex Mixer Tank**  
Uses pumps suction to create a vortex which cleans the tank, reducing the time spent dumping the tank



**Stainless Steel**  
End covers, clamp plates and stator sealing faces provide long life in corrosive mine water

**Internal Anti-Reverse Clutch**  
Simplifies pump removal and protects clutch from mine environment

**Half Ring Stator Clamps**  
Eliminates tie rods and greatly increases pump strength

**Maintenance Free Flexible Drive Shaft**  
Now 30% stronger

**Less**

**Overall Size**

**Components**

**Rebuild Costs**

**Tank Dumping**

**Pump Down Time**

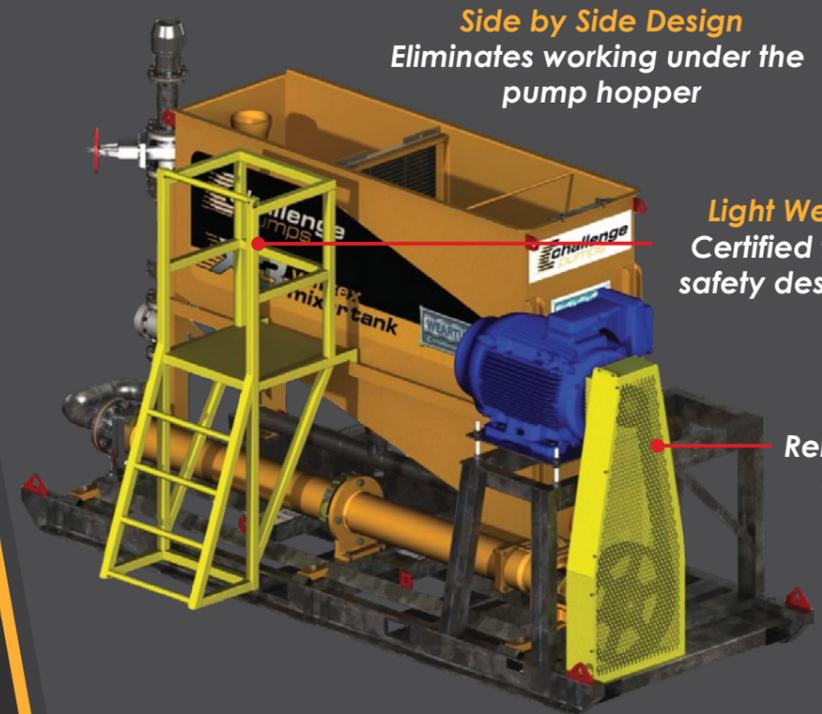
**Time needed to remove pump**

**Water running down the decline**

**More**

**\$\$\$**

**On your Bottom Line**

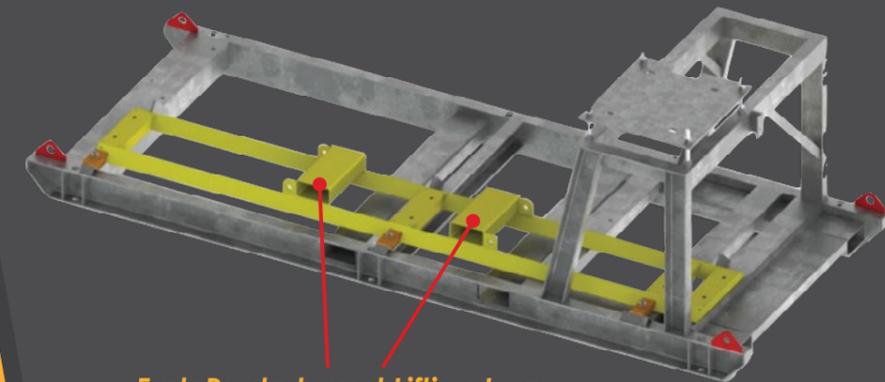


**Side by Side Design**  
Eliminates working under the pump hopper

**Light Weight Ladder**  
Certified to Australian safety design standards

**Belt Drive**  
Reliable vee-belt drive system

**Hot Swap Quick Release Cassette Base**  
Doubles as transport skid



**Fork Pockets and Lifting Lugs**  
For easy lifting and transportation of the pump

**X3 vortex mixer tank**

**The World's Best Travelling Decline Pump System**



**X3 Vortex Mixer in action in an Underground Gold Mine**



**Open Pit Transfer Pump Station**



[www.challengepumps.com.au](http://www.challengepumps.com.au)

Head Office - Perth, Australia

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f: +61 (0)8 9353 4409  
e: [info@challengepumps.com.au](mailto:info@challengepumps.com.au)

16 Reggio Road, Kewdale WA 6105  
PO Box 112, Belmont WA 6984

Branch - VIC, Australia

t: +61 (0)3 8795 7773  
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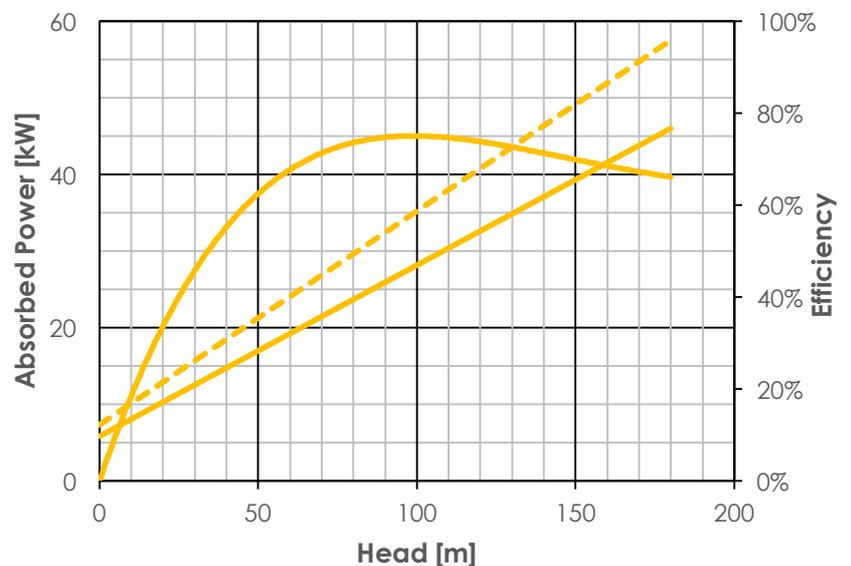
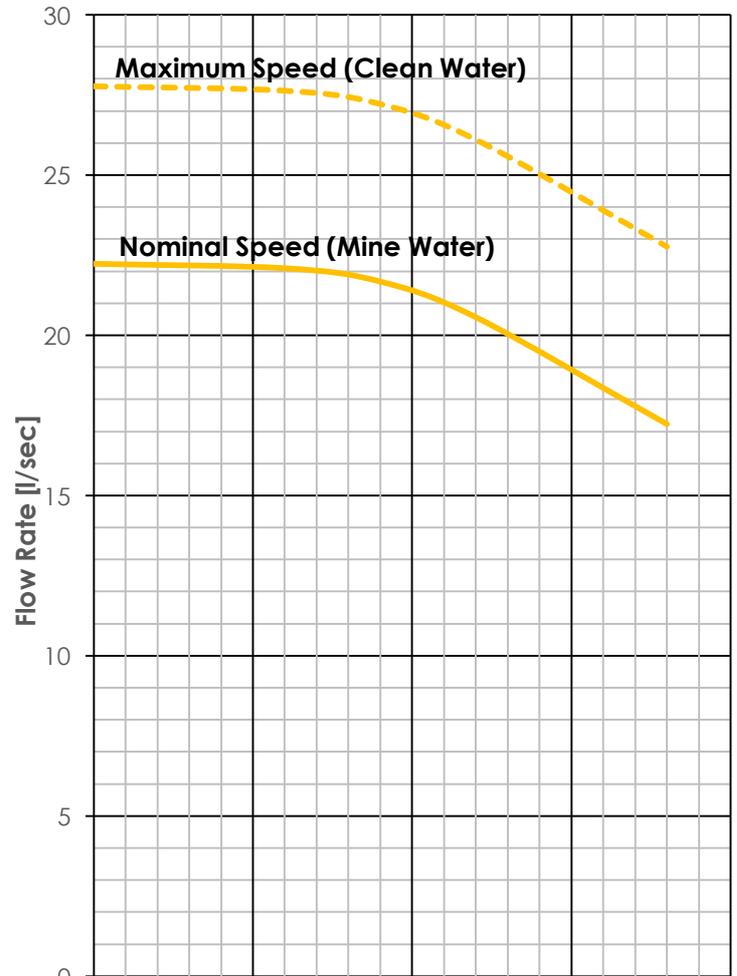
Branch - NSW, Australia

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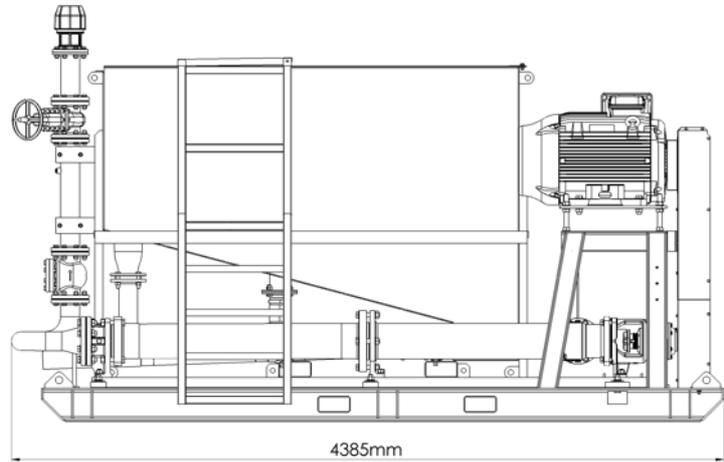
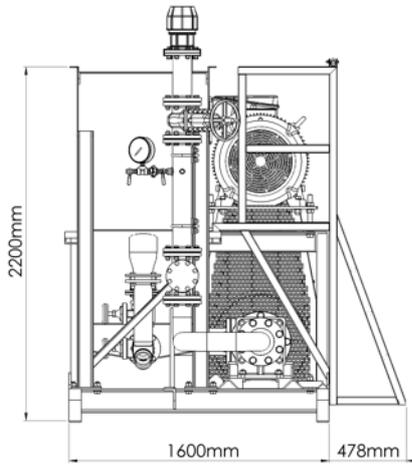
Nominal Flow	Maximum Head
20 L/Sec	180 m

Typical Average Performance	
Rotation	Anticlockwise
Maximum Speed	400 rpm
Nominal Speed	320 rpm
Pulley Ratio	3:1
Motor Size	55 kW
Maximum Pressure Difference	1800 kPa
Starting Torque	975 Nm
Motor Poles	6
Inlet Flange	DN150 BS4504 PN16
Outlet Flange	DN150 BS4504 PN40
Solids Handling	Hard Angular 20 mm Soft Compressible 62 mm
Performance Tolerance	±10%

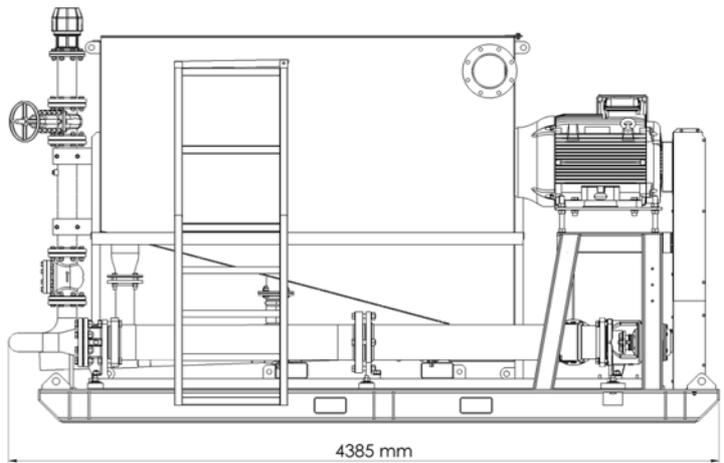
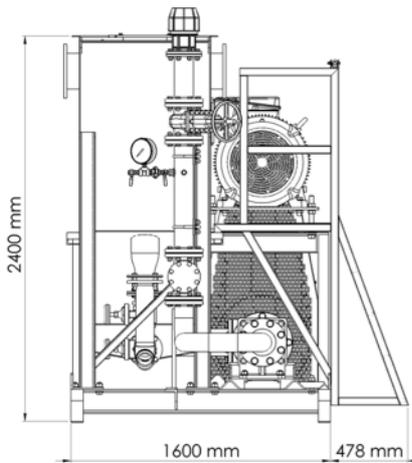
Tested on water at 20°C  
For water temperatures greater than 30°C consult  
Challenge Pumps



**Single, Low Tank X3 Unit (Available in Left or Right Hand Configurations)**



**Modular Tall Tank X3 Units for Multiple Pump Installations**



**Back to Back X3 Modular Tanks**

