



Goodwin

100 mm HYDRAULIC

Slurry Champ

SUBMERSIBLE SLURRY PUMP

NUMBER ONE FOR RELIABILITY, STRENGTH & ENDURANCE

TECHNICAL DATA SHEET

100 mm *SlurryChamp* HYDRAULIC SUBMERSIBLE SLURRY PUMP

Goodwin submersible pumps have been manufactured since 1982 and are recognised as market leaders in terms of performance and reliability. The pumps have been continually developed over 4 decades resulting in machines that can perform in the most demanding environments.

Standard Engineering Features

- Single piece cast iron body to enhance rigidity and reduce wear
- Bearings run in oil bath for lubrication and cooling
- Twin volute casing design to reduce rotational imbalance and increase lifetime of bearings and seals
- Rotating inducer creates hydrodynamic shock waves to re-suspend settled particles beneath the pump inlet
- Carefully chosen wear resistant materials to maximise service lifetime
- Single stage, open vane impeller
- Precision bearings
- Non pressurised mechanical seal

Applications

- Open pit mine dewatering
- Mine tailings recovery and reprocessing
- Minerals processing - separation, purification, concentration
- Power plant ash removal and cleaning
- Lagoon dredging and silt removal
- River water and dam desilting
- Harbour and dry-dock cleaning
- Steel slag transport
- Rolling mill scale and metal cutting swarf transport
- Sewage and waste transfer



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Pump Data

Design fluid handled	Slurry
Maximum fluid SG	2.8 kg/l
Maximum fluid solids content	65 % by weight
Maximum particle size	32 mm
Maximum fluid temperature	90 °C
Recommended pH range	4-10
Weight	425 kg
Outlet diameter	100 mm
Maximum flow	230 m ³ /hr @ 1500rpm
Maximum head	51 m (5.0 bar) @ 1800rpm
Impeller diameter	320 mm
Impeller tip speed	24 m/s @ 1800rpm
Peak efficiency	62 %
Maximum submergence depth*	28 m
Motor displacement	63cc
Speed range	1200 - 1800rpm

*As standard, can be deeper if required.



Coating System

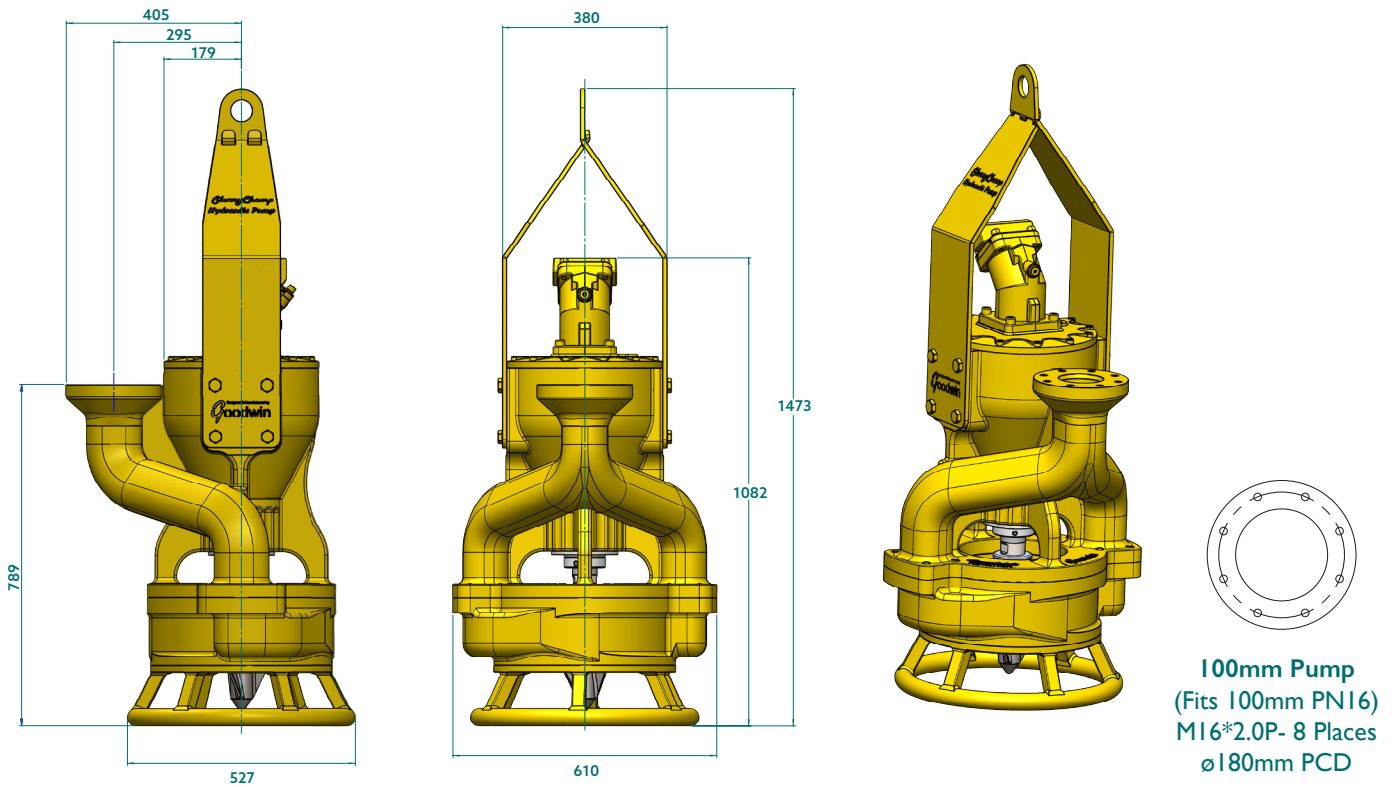
Surface preparation	Class 2.5
Undercoat	Two component high build epoxy coating. 125µm thickness (typical).
Top coat	Acrylic polyurethane high gloss. 50µm thickness (typical). Yellow to RAL 1003 / BS4800 08-E-51.

Other Data

Outlet flange configuration	100mm PN16 M16*2.0P 8 places ø180mm PCD		
Hydraulic service live ports	SAE J518 Code 62 3/4 inch 6000psi		
Hydraulic service drain port	3/4 inch - 1600F-ZB		
Required hydraulic oil supply	RPM	Water	Slurry SG 2.0 Kg/l
	1200rpm	73 Litres per minute @ 65 bar	73 Litres per minute @ 130 bar
	1500rpm	93 Litres per minute @ 98 bar	93 Litres per minute @ 196 bar
Allowable hydraulic pressure	1800rpm	108 Litres per minute @ 130 bar	108 Litres per minute @ 260 bar
	Maximum Continuous 400 bar - Normal Operation 260 bar		

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Dimensions



Pump Curve

