

Warman SJ submersible dewatering pump

The Warman SJ submersible dewatering pumps represent an optimal combination of ruggedness, durability, hydraulics and materials technology. These pumps are designed to perform in the most arduous submersible mine and quarry dewatering applications. Warman SJ pumps are equipped for immediate use, their robust but low weight design makes installation and operation easy and safe

Warman SJ standard features

- Heavy duty construction with lightweight portability - durability and strength with ease of transport, maintenance and less downtime
- Optimum mix of wear resistant materials - full utilisation of wearing parts for maximum wear life
- Good value modular design - easily adjusted and replaced wear parts for less downtime
- Common components between sizes - reduced spares inventory and ease of maintenance
- Simple access to separate sealed electrical junction box - ease of cable replacement
- Temperature sensors fitted to motor windings allow automatic shutdown in the event of overheating - pump can run dry without risk of burnout
- High specification mining cable as standard - ready to use out of the box
- Silicon carbide faces on primary seal - longest life in dirty water applications

Warman SJ options

- Alternative discharge connections
- DOL starter box
- Level controls

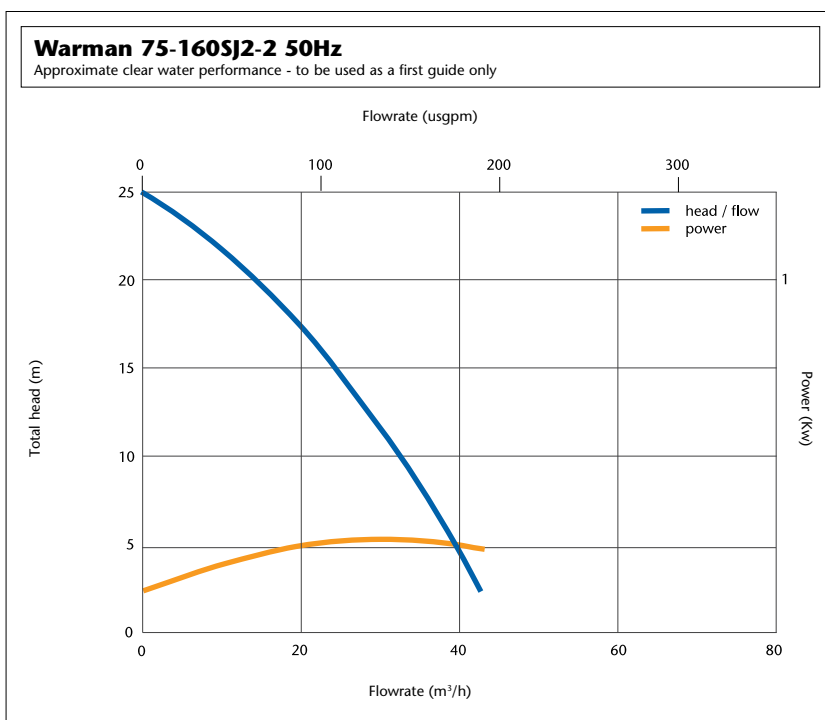
Warman SJ benefit to the customer

- Ease of portability, installation and maintenance, less downtime, maximum wear life and efficient hydraulic performance give the customer - the lowest cost of ownership

The premium submersible mine dewatering pump from the global slurry pump specialists



Warman 75-160SJ2-2



Size range (discharge)

3" hose

Capacities to

42 m³/hr (184 usgpm)

Heads to

25 m (82 ft)

Applications

- Underground mine dewatering
- Opencast mine dewatering
- Alluvial mining level control
- Sand, gravel and hard rock quarrying
- Clarified water
- Mineral processing plants

Pump

Maximum submergence: 20 m
Maximum working pressure: 10 bar
Maximum liquid density: 1.1
pH range: 5 - 8
Strainer holes: 7.5 mm diameter
Weight (including 20m cable): 34kg

Electric motor

3-phase squirrel-cage induction motor
Protection class: IP 68. Class F insulation
Motor rating P2: 2.2 kW
Speed: 2850 rpm
Starting: Direct on line

| Pump Part No. | Nominal Voltage, V | Nominal Current, A |
|---------------|--------------------|--------------------|
| 76000081 | 400* | 5.5 |
| 76000083 | 500* | 4.2 |
| 76000646 | 1000** | 2.1 |

* Built-in thermal motor protector with contactor unit and a bimetal microswitch in each winding

** Bimetal thermal microswitch in each winding, control circuit included in main motor cable

High specification rubber-sheathed flexible mining cable suitable for underground mining, open-cast mining, quarries and other similar applications
NSSHÖU .../3E, DIN VDE 0250, Part 812, MSHA P-189-3, WUG-GE-104/97

Shaft seal

Double mechanical seal in oil bath
Primary seal: Silicon carbide on silicon carbide
Secondary seal: Stainless steel on antimony treated carbon

WARMAN® Centrifugal Slurry Pumps
GEHO® Positive Displacement Slurry Pump
HAZLETON® Specialty Slurry Pumps
FLOWAY® Vertical Turbine Pumps
LEWIS® Vertical Chemical Pumps
CAVEX® Hydrocyclones
ISOGATE® Slurry Valves
VULCO® Wear Resistant Linings

For further information on any of these products or Total Care product support services contact your nearest sales office, full contact details on our website:

www.weirminerals.com

Bearings

Upper bearing: Single-row deep groove ball bearing
Lower bearing: Double angular contact ball bearing

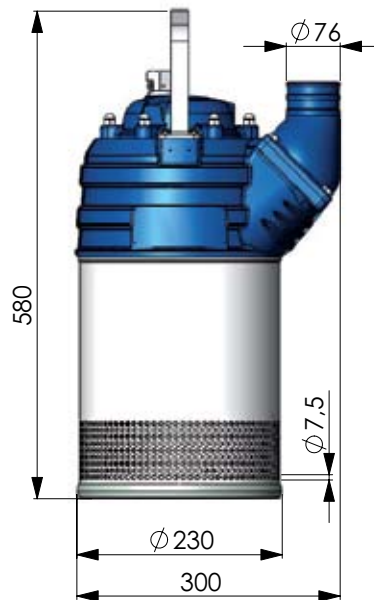
Materials of construction

| Component | Material | Code |
|---------------------|------------------|------|
| Castings: | Aluminium | |
| Casing & fasteners: | Stainless steel | C22 |
| Shaft: | Stainless steel | C21 |
| Impeller: | High chrome iron | A05 |
| Wear plate: | Polyurethane | U01 |
| Diffuser: | Nitrile rubber | S12 |
| Back Plate: | Nitrile rubber | S12 |

Accessories

Level control box and float switch with 20m cable
4" hose connection
3" and 4" B.S.P., N.P.T. and Storz connections

Outline dimensions (mm)



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