HARDALLOY CONSTRUCTION

- Impeller, volutes, sleeves, suction covers and discharge elbows all Hardalloy
- Built-in thermal overload protection
- Double mechanical seals
- Moisture detection
- Heavy-duty lip seals
- Heavy-duty thrust bearings
- Shafts made of 420 SS
- Custom designed pumps can be provided for specific applications
- Can be operated at higher temperatures and longer cycle times

PUMP MODEL	POWER (hp)	SPEED (rpm)	MAX FLOW (gpm)	MAX HEAD (ft)	DISCHARGE (in)
S-FP	5.5 to 25	1750 - 3500	260	165	2.5
603-H	15 to 40	1750 - 3500	550	165	3
K125-H	15 to 50	1150 - 1750	800	165	3
1004-H	25 to 60	880 - 1150	1250	150	4
1706/99-H	40 to 75	880 - 1150	1800	135	6

RUBBER LINED CONSTRUCTION

- Rubber lined versions with Hardalloy-impellers
- Designed for heavy-duty slurry applications with rubber lined casings
- Power ranging from 1 to 100 hp, and speeds from 735 to 3,500 rpm
- Capacities up to 1,585 gpm (360 m^3/h)
- Maximum available pressures from 88 to 103 psi (6-7 bar)
- Mechanical seals are of Silica or Tungsten Carbide
- Bearings are grease lubricated to deliver long-life
- Thermal probes (for the control of motor temperature) and oil level probes (for slurry leak detection inside the oil chamber)
- Electric device for the analysis of the signals from the thermal probes

PUMP MODEL	POWER (hp)	SPEED (rpm)	MAX FLOW (gpm)	MAX HEAD (ft)	DISCHARGE (in)
33	1.5 to 4	1750 - 3500	80	65	1
302	3 to 4	1750 - 3500	100	65	1.5
403	5.5 to 12	1750 - 3500	180	100	2
503	5.5 to 25	1750 - 3500	220	150	2.5
533	5.5 to 25	1750 - 3500	400	150	3
603	15 to 40	1750 - 3500	480	165	3
804	15 to 30	1750 - 3500	660	85	3
K125	25 to 50	1150 - 1750	660	165	3
1004	25 to 60	1150 - 1750	1000	130	4
1706/99	40 to 75	880 - 1150	1600	120	6
G230	40 to 100	880 - 1150	2400	120	8
I-270	60 - 150	880 - 1150	3200	120	8

PEMO Pumps, headquartered in Vimodrone, Italy, is world renown for designing and manufacturing customized centrifugal pumps for the most difficult abrasive and/or acid applications in the mining, utility, aggregate, quarry, ceramics and chemical processing industries.

Since opening doors in 1947, PEMO has built and shipped over 39,000 pumps, and has representatives and agents selling PEMO pumps around the world including United States, Spain, Portugal, France, Holland, Poland, Brazil, Egypt, Singapore, Peru and Chile.

PEMO PUMPS

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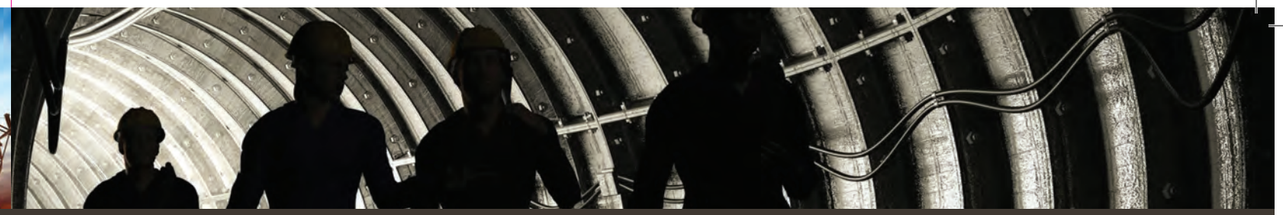
PEMO PUMPS

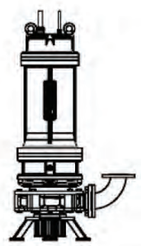
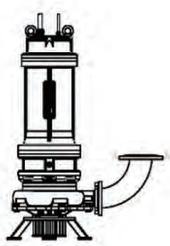
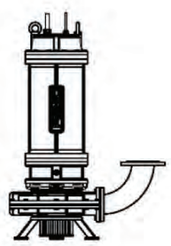
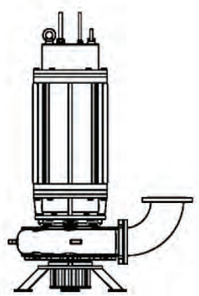
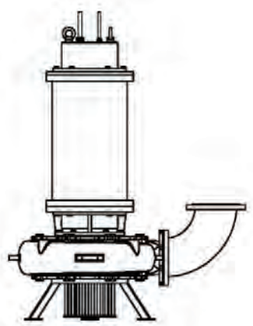
Submersible Slurry Pumps







PEMO HARDALLOY SUBMERSIBLE PUMPS

S-FP	603-H	K125-H	1004-H	1706/99-H
Designed for severe duty submersible applications with abrasive, corrosive slurries. **Power plants. Underground mines.**	Designed for submersible low solids content applications requiring high heads. **Power plants. Seawater sand slurry. Lime slurry.**	Used in submersible application with large, clogging or stringy material. **Mining. Coal and slurry transfer. Mill scale and ash pits.**	For submersible low solids content applications requiring high heads. **Barge clean-out. Tank sludge cleanout.**	Designed for severe duty submersible applications with abrasive, corrosive slurries. **Power plants. Deep or inaccessible wells.**
CAPACITIES 30 to 260 gpm 7 to 60 m^3/hr	CAPACITIES 60 to 550 gpm 15 to 120 m^3/hr	CAPACITIES 90 to 800 gpm 20 to 180 m^3/hr	CAPACITIES 200 to 1,250 gpm 45 to 280 m^3/hr	CAPACITIES 200 to 1,800 gpm 45 to 400 m^3/hr
HEADS 20 to 165 ft 6 to 50 m	HEADS 20 to 165 ft 6 to 50 m	HEADS 20 to 165 ft 6 to 50 m	HEADS 20 to 150 ft 6 to 45 m	HEADS 20 to 135 ft 6 to 42 m
WEIGHT 660 lb 300 kg	WEIGHT 950 lb 430 kg	WEIGHT 1100 lb 500 kg	WEIGHT 1430 lb 650 kg	WEIGHT 2200 lb 1000 kg
				

The Hardest, Most Rugged Submersibles in the Industry Today.

PEMO RUBBER LINED SUBMERSIBLE PUMPS

All metal, the PEMO submersible pumps are designed with long life and low maintenance as a priority. The wetted parts of the pump, (volute(s), impeller(s), inlet flange(s), and shaft sleeve(s) are made of an extremely hard iron alloy called, "Hardalloy" which has a hardness rating of over 800 bhn. The hardness of the pump components is the key to reliable performance in rugged applications ranging up to 70% solids, with max size of particles up to 20mm in diameter.

Flows can range from 30 to 3,200 GPM, with heads up to 165 feet TDH.

PEMO's Submersible Pump design includes:

- Hardalloy or rubber lined pump ends
- Rubber lined design includes Hardalloy impellers
- Volutes and impellers are abrasion resistant coated
- Double mechanical seals, (hard faced)
- Double row ball bearings, (top and bottom)
- High efficiency, air filled motors, (IE3) (10 meter long power cord)
- Motor thermal probes for over heat protection of the motor stator
- Seal leak detection probes, (mechanical seal oil chamber)
- Pump stand for free standing bottom mount pump operation
- Optional mechanically or hydraulically driven agitators
- Optional float switches for level sump level control

PEMO Submersible Pumps will provide years of trouble free service.

Coupled to the heavy-duty waterproof electric fully submersible motor through a coupling cage containing the dual opposed seal with independent permanent lubrication.

They are ideal for use in deep wells where a vertical pump would be too costly or impossible to install.

Pemo Submersible Pumps are installed without masonry or special structures. They can be set on the bottom of the well or hung from a rope, chain or other suspension devices.

A float switch controls the pump, keeping it constantly covered with fluid.