



TDSP Submersible Slurry Pump

TDSP series submersible slurry pump is single stage centrifugal pump which is specially designed to mine underwater slurry and gravel in river,lake,sea as well as undersea mining.The structure design and materials of the pump have been considered thoughtfully to make the pump operate under water permanently,reliably and effectively.

● *Main Features*

It has the characters of corosion-resistance, wearing-resistance, high ability of passing solid,wide-range of submersible depth.The maximum value of submersible depth is up to1000m, and its function won't be impacted as the depth varied. Just putting the pump on the bottom of sea or river, it can work at any angle of placement. Therefore, it is ideal and efficient equipment for slurry collection and undersea mining.

● *Model Definition*

Example as TDSP-901-12p-6-440

<i>Part Number</i>	<i>Model</i>	<i>Definition</i>
1	TDSP	TDSP series submersible slurry pump
2	901	Pump order number
3	12p	Motor poles
4	6	5: 50Hz; 6:60Hz
5	440	Voltage, 230/380/440V, 690/1000V/3300V

● *Composition*

TDSP series submersible slurry pump is generally composed of cutter head,pump,electric motor pressure balance device,set support and spare parts.The suction efficiency,operating reliability and practicability of the whole set have been taken into consideration thoroughly while the structure designing. Electric motor,pump and set support fixed into one unit can be used at any position between 0-90° .

i. Pump and Cutter

TDSP series submersible slurry pump is single-stage centrifugal pump.Consists of pump casing, impeller,cutter head.Usually,the main material of components which liquid flows through is made from the wear-resistant cast iron of high chrome,and special material will be selected to meet the special requirements according to working conditons.By the cutter head running,the density of suction liquid will be increased and the suction efficiency will be improved as well.As



the pump and the motor are coaxial, it makes the axial force of the pump pass on to the motor directly,so the pump can work at any position.

ii. Motor and Pressure Balance Device

TDSP series submersible slurry pump is usually matched with TYQN series dredge submersible electric motor.TYQN series products are oil-filled structure,and its bearing is rolling bearing What's more,the internal thrust bearing can carry the downward and upward axial thrust of the pump.It means that the bearing can reliably carry the whole weight of rotating parts of pump and the hydraulic thrust force of impeller.The detailed specifications of TYQN stated above can refer to our related catalog of TYQN motor series.

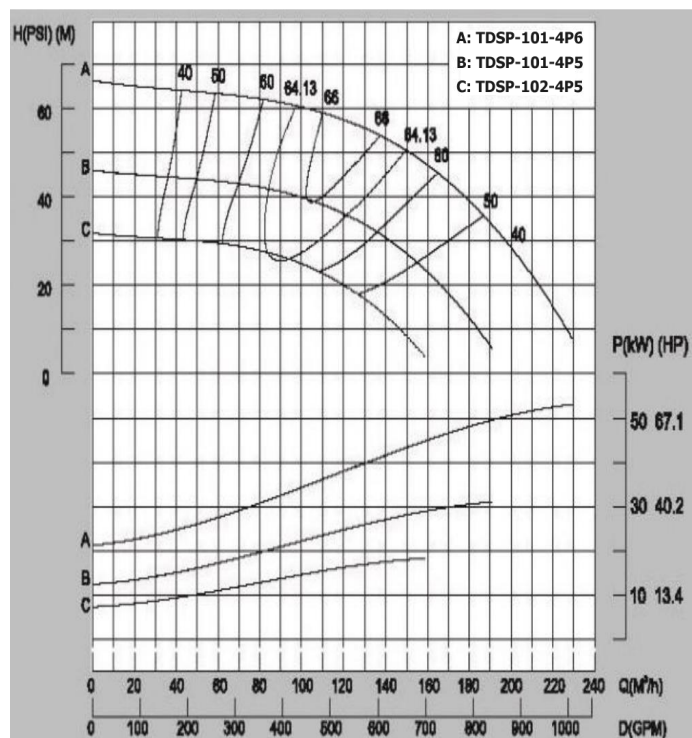
Usually,the electric motor is supplied with pressure balance device.It can make the outside pressure and inside pressure of the motor balance automatically.The maximum submersible depth of motor can reach 1000m. If the actual working condition is over the limit,please specifically indicate it while ordering which will need to be customized.

iii. Other parts

Other parts are optional base support and electric motor control cabinet.

The start modes include Y- Δ start,soft start and frequency converter start.

TDSP Submersible Slurry Pump Performance Curve Model





● *Technical Specification*

Type	Power Supply	Discharge Diameter	Head	Capacity	MAX size of solid	Power	Weight	Speed
		mm	m	CBM/h	mm	kW	kg	r/min
TDSP-0501-4P5	380V 50Hz	80	35	50	20	18.5	450	1450
TDSP-0502-4P5	380V 50Hz	80	22	50	20	11	400	1450
TDSP-101-4P5	380V 50Hz	100	40	100	35	37	645	1450
TDSP-102-4P5	380V 50Hz	100	24	100	35	22	600	1450
TDSP-1.501-4P5	380V 50Hz	150	40	150	35	45	800	1450
TDSP-1.502-4P5	380V 50Hz	150	23	150	35	37	750	1450
TDSP-301-4P5	380V 50Hz	150	40	300	60	90	1100	1450
TDSP-302-4P5	380V 50Hz	150	21	300	60	55	1000	1450
TDSP-501-6P5	380V 50Hz	200	40	500	60	140	2200	980
TDSP-502-6P5	380V 50Hz	200	25	500	80	90	2000	980
TDSP-9.501-6P5	380V 50Hz	250	40	950	120	185	3500	980
TDSP-9.502-6P5	380V 50Hz	250	21	950	120	110	3000	980
TDSP-1501-8P5	380V 50Hz	350	40	1500	120	400	4100	740
TDSP-1502-8P5	380V 50Hz	350	24	1500	120	250	3800	740
TDSP-2001-8P5	690V 50Hz	400	40	2000	120	550	5000	740
ASB-2002-8P5	690V 50Hz	400	24	2000	120	350	4500	740
TDSP-2801-10P5	690V 50Hz	500	40	2800	120	750	7800	580
TDSP-2802-10P5	690V 50Hz	500	21	2800	120	400	6000	580
TDSP-3701-12P5	690V 50Hz	550	40	3700	120	900	10800	490
TDSP-3702-12P5	690V 50Hz	550	21	3700	120	550	8800	490
TDSP-901-12P5	380V 50Hz	300	16	900	120	100	3500	490
TDSP-1501-12P5	380V 50Hz	400	21	1500	120	180	10500	490
TDSP-3101-14P5	380V 50Hz	500	21	3100	120	350	18500	421
TDSP-5001-16P5	690V 50Hz	550	24	4000	120	550	32500	368
TDSP-5001-16P5	690V 50Hz	600	21	5000	120	550	33000	368
TDSP-6501-16P5	1000V 50Hz	600	28	5000	120	800	38000	368
TDSP-5002-12P5	1000V 50Hz	530	35	5000	120	1000	39500	490
TDSP-6501-16P5	1000V 50Hz	650	24	6500	120	950	40000	368
TDSP-901-10P5	380V 50Hz	300	23	1090	120	160	3500	588
TDSP-1501-10P5	380V 50Hz	400	30	1800	120	300	10500	588
TDSP-3101-12P5	890V 50Hz	500	28	3600	120	550	18500	490
TDSP-5002-14P5	690V 50Hz	530	28	4200	120	650	32000	421
TDSP-5001-14P5	1000V 50Hz	550	32	4550	120	800	32500	421
TDSP-5001-14P5	1000V 50Hz	800	27	5700	120	950	33000	421
TDSP-6501-14P5	1000V 50Hz	800	36	5700	120	1150	38000	421
TDSP-6501-14P5	1000V 50Hz	650	32	7450	120	1350	40000	421



● *Order Information*

Please supply the information when purchasing order:

- 1.Pump capacity and head.
- 2.Power supply and frequency.
- 3.The maximum submersible depth.
- 4.The maximum diameter of solid.
- 5.Working medium and temperature.
- 6.The maximum slurry content of water.
- 7.Installation and using mode.



ISO 9001 certificate



Fire Fighting Products got UL certificate



Marine Products got CE certificate



Fire Fighting Products got FM Approvals



Marine Products got ABS Approvals