

TDM Series

AC/DC Permanent Magnet Shield Magnetic Pump



Transcend Machinery Equipment Co.,Ltd.

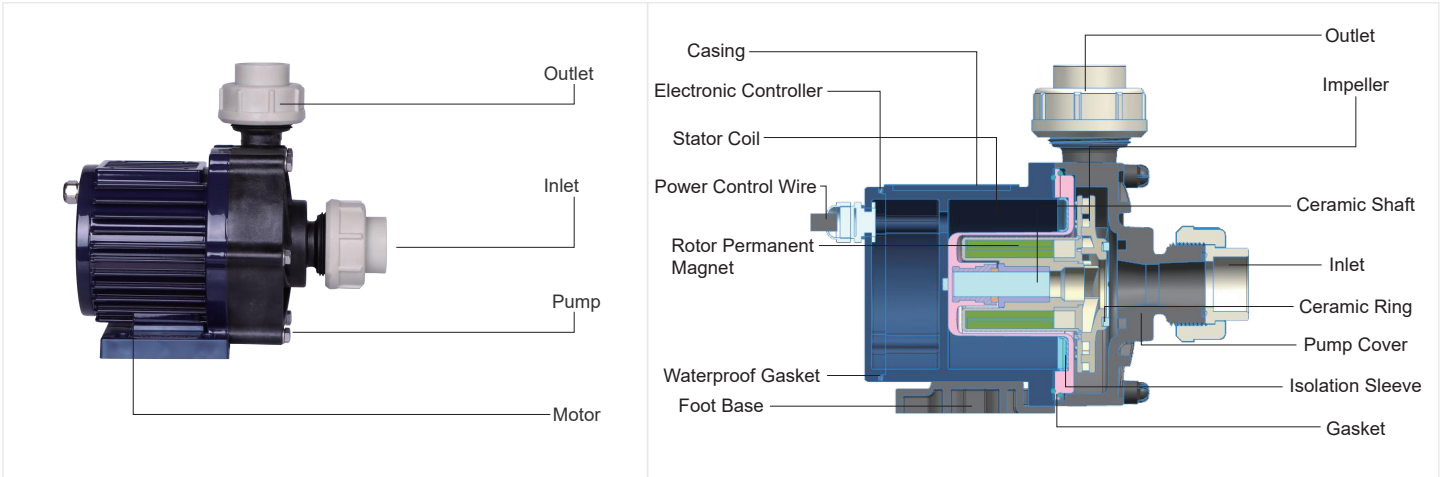
Transcendpump-Genuinely and Sincerely-Real Material-No Leakage



◆ AC/DC Permanent Magnet Shielded Magnetic Drive Pump

The AC/DC shielded magnetic drive centrifugal pump is a horizontal, modularly designed, plastic, single-stage, single-suction centrifugal pump. The pump body and the electric motor are integrated and secured with a sealing rear cover. The motor drives the impeller, which contains a magnetic field rotor within the pump head, achieving a compact size, high power, and stepless speed regulation.

◆ Appearance Desc. and Internal Structure



◆ Exploded View



Bill of Materials

NO.	Name	Specifications/Material	Quantity	NO.	Name	Specifications/Material	Quantity
1	Union Joint	1"-DN25-PP	2	9	Inner Magnetic Shaft Sleeve	Ceramic	1
2	Union Locknut	1"-DN25-PP	2	10	Sealing O-ring	VT	1
3	Union Rubber	φ30*4.5-EPDM	2	11	Rear Casing	GFRPP	1
4	Plastic Nut	M6-PP	6	12	Foot Screws	M6-SUS304	4
5	External Hex Screw	M6*-SUS304	6	13	Motor	500W-DC48V	1
6	Front Cover	GFRPP	1	14	Nameplate	46mm*58mm	1
7	Rotary	PTFE	1	15	Foot Base	145*90*14-PP	1
8	Impeller Magnetic Cup	PP	1				

TDM Series

TDM-550PERU-DC48 DC Pump

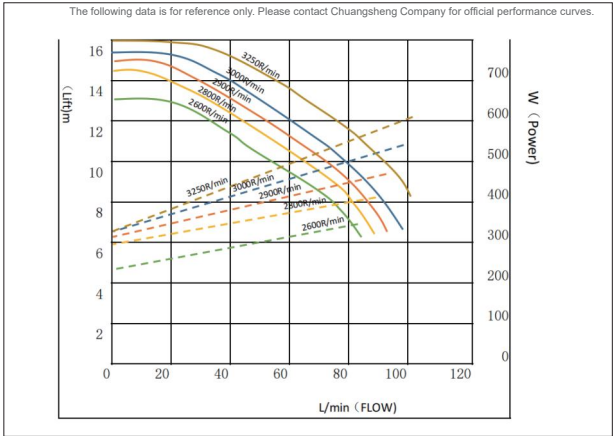


- ✓ Brushless DC
- ✓ Stepless Speed Control
- ✓ Compact Size

◆ Model Description

TDM - 550 P E R U - DC 48							
①	②	③	④	⑤	⑥	⑦	⑧
① Pump Series TDM Series	② Motor Power 200:200W 350:350W 400:400W 550:550W	③ Seal Material E:EPDM V:VT A:AFLAS	④ Bearing/Shaft Material S:SiC/SiC A:SiC/995 Ceramic R:PTFE/995 Ceramic	⑤ Piping Type U:Union Type M:Thread Type F:Flange Type	⑥ Power Code DC:DC AC:AC	⑦ Power Voltage 24:24V 48:48V	⑧ Pump Body Material P:GFRPP C:CFRPP K:PVDF E:CFRTPFE

◆ Performance Curve Chart



◆ Specifications

TDM-550ERU-DC48							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	48	4.7	77	48	2.0	96	DN25/G1
1800	55	5.7	100	48	2.6	125	DN25/G1
2000	60	7.0	127	48	3.3	159	DN25/G1
2200	67	8.5	166	48	4.3	207	DN25/G1
2400	76	10.5	220	48	5.7	275	DN25/G1
2600	83	12.2	258	48	6.7	323	DN25/G1
2800	90	14.8	328	48	8.5	410	DN25/G1
3000	98	15.7	420	48	10.9	525	DN25/G1
3250	105	16	513	48	13.3	641	DN25/G1

TDM-400ERU-DC48							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	48	4.7	77	48	2.0	96	DN25/G1
1800	55	5.7	100	48	2.6	125	DN25/G1
2000	60	7.0	127	48	3.3	159	DN25/G1
2200	67	8.5	166	48	4.3	207	DN25/G1
2400	76	10.5	220	48	5.7	275	DN25/G1
2600	83	12.2	258	48	6.7	323	DN25/G1
2800	90	14.8	328	48	8.5	410	DN25/G1
3000	98	16	420	48	10.9	525	DN25/G1

TDM Series

TDM-550PERU-DC48 DC Pump

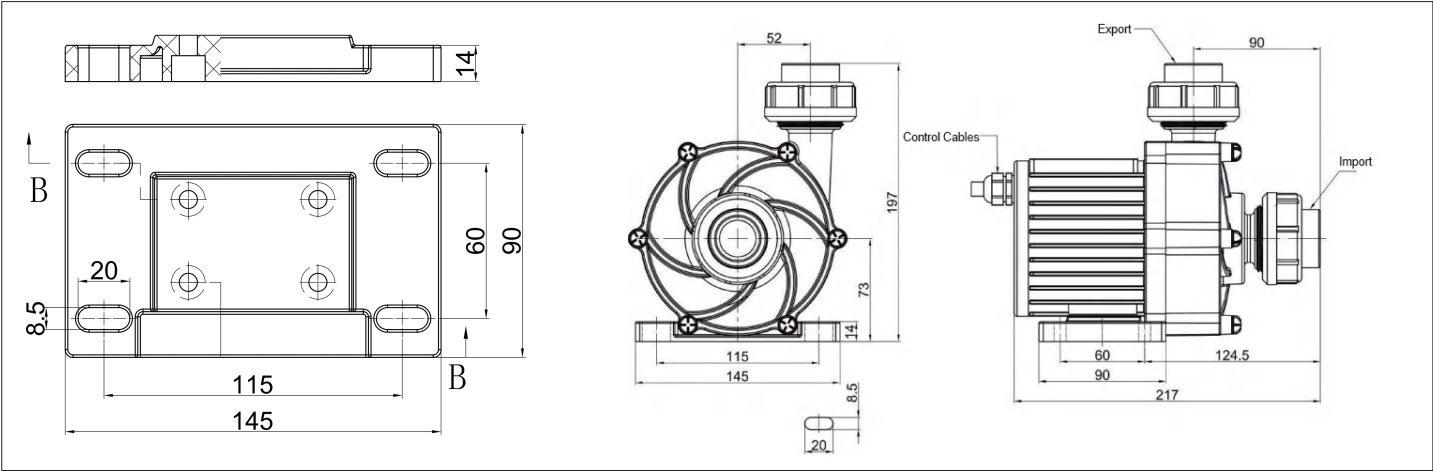
◆ Specifications

TDM-350PERU-DC48							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	48	4.7	77	48	2.0	96	DN25/G1
1800	55	5.7	100	48	2.6	125	DN25/G1
2000	60	7.0	127	48	3.3	159	DN25/G1
2200	67	8.5	166	48	4.3	207	DN25/G1
2400	76	10.5	220	48	5.7	275	DN25/G1
2600	83	12.2	258	48	6.7	323	DN25/G1
2800	90	14.8	328	48	8.5	410	DN25/G1

TDM-200PERU-DC48							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	48	4.7	77	48	2.0	96	DN25/G1
1800	55	5.7	100	48	2.6	125	DN25/G1
2000	60	7.0	127	48	3.3	159	DN25/G1
2200	67	8.5	166	48	4.3	207	DN25/G1
2400	76	10.5	220	48	5.7	275	DN25/G1

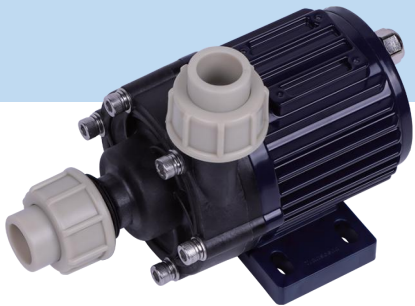
◆ Dimensions

Note: Data is for reference only. Dimensions may vary due to different motor usage. Please contact Chuangsheng Company for official drawings.



◆ Optional Materials and Temperature Range for Wetted Parts

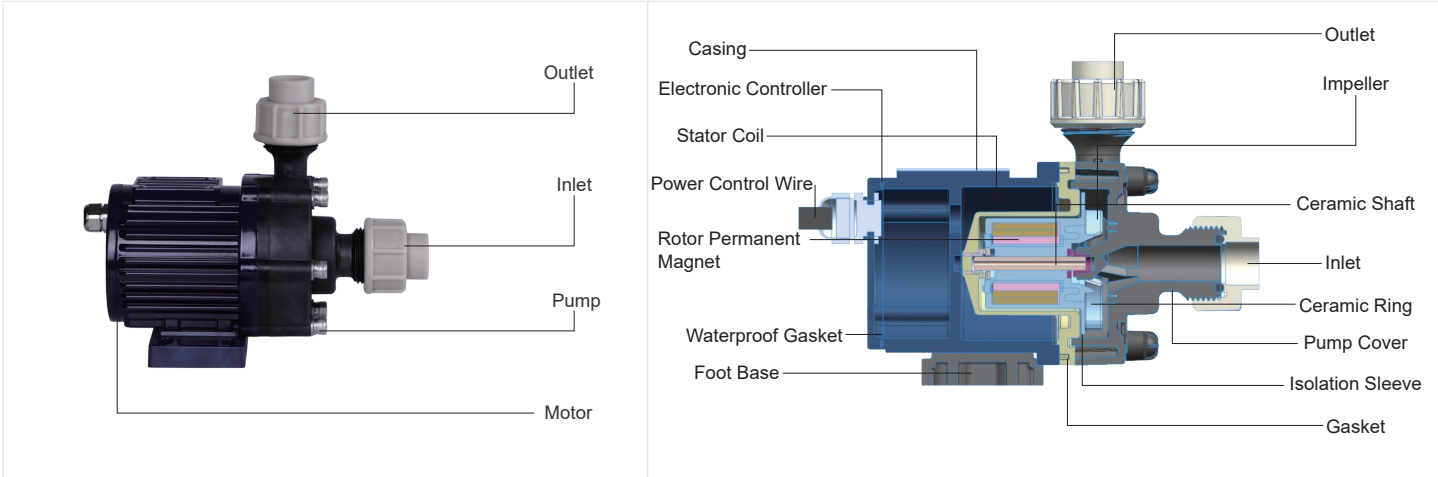
Pump Body		Seals		Wear-resistant Parts	
Material	Temperature Range	Material	Temperature Range	Material	Temperature Range
GFRPP	5°C-80°C	EPDM	0°C-60°C	995 Aluminium oxide ceramics	-60°C-150°C
CFRPP	0°C-80°C	VITON	-30°C-70°C	SIC	-80°C-280°C
PVDF	-20°C-90°C	FKM	-30°C-100°C	PTFE	-80°C-150°C
CFETFE	-30°C-110°C	PTFE	-80°C-150°C		



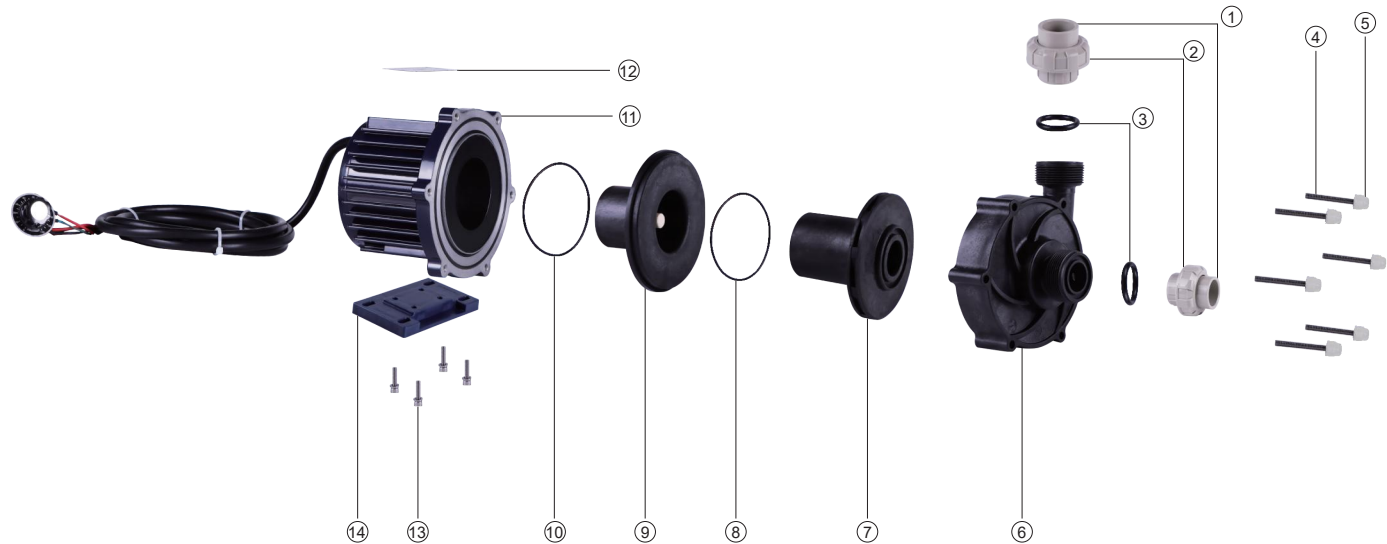
◆ AC/DC Permanent Magnet Shield Magnetic Pump

AC/DC Permanent Magnet Shield Magnetic Pump:
it is a horizontal modular design plastic single-stage single suction centrifugal pump, pump body and motor is combine into one unit,and is fastened and sealed through the rear casing;
The motor drives the impeller of magnetic field rotor inside the pump head, small size, high power and stepless speed regulation.

◆ Appearance Desc. and Internal Structure



◆ Exploded View



Bill of Materials

No.	Name	Specifications/Material	Quantity	No.	Name	Specifications/Material	Quantity
1	Union Joint	1/2"-DN15-PP	2	8	Sealing Gasket	EPDM	1
2	Union Lock Cap	1/2"-DN15-PP	2	9	Rear Shell	GFRPP	1
3	Union Rubber	EPDM	2	10	Sealing Gasket	EPDM	1
4	Rubber Nut	M5-PP	6	11	Motor	100W-DC24V	1
5	Hexagon Head Screw	M5*40-SUS304	6	12	Nameplate	46mm*58mm	1
6	Front Cover	GFRPP	1	13	Foot Base Screw	M5*10-SUS304	4
7	Impeller Magnet Capsule	PP	1	14	Foot Base	150*44*12-PP	1

TDM Series

TDM-100PERU-DC24 DC Pump

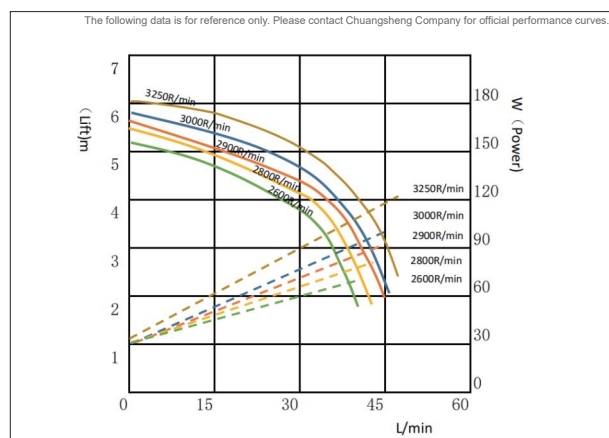


- ✓ Brushless DC
- ✓ Stepless Speed Control
- ✓ Compact Size

◆ Model Description

TDM - 100 P E R U - DC 24							
①	②	③	④	⑤	⑥	⑦	⑧
① Pump Series TDM Series	② Motor Power 70:70W 100:100W	③ Pump Body Material P:GFRPP C:CFRPP K:PVDF E:CFRETFE	④ Seal Material E:EPDM V:VT	⑤ Bearing/Shaft Material S:SiC/SiC A:SiC/995 Ceramic R:PTFE/995 Ceramic	⑥ Piping Type U:Union Type M:Thread Type F:Flange Type	⑦ Power Code DC:DC AC:AC	⑧ Power Voltage 24:24V 48:48V

◆ Performance Curve Chart



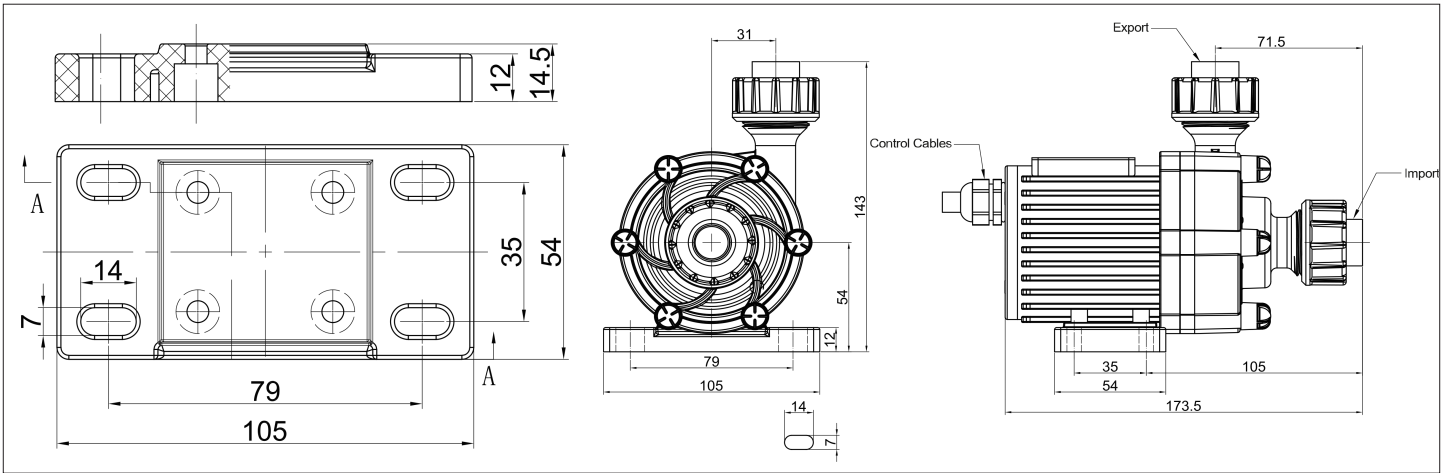
◆ Specifications

TDM-100ERU-DC24							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	22	1.7	12	24	0.6	15	DN20/G3/4
1800	26	2.5	18	24	0.9	22	DN20/G3/4
2000	30	3.1	23	24	1.2	29	DN20/G3/4
2200	33	4.0	31	24	1.6	39	DN20/G3/4
2400	36	4.7	41	24	2.1	51	DN20/G3/4
2600	40	5.6	53	24	2.7	66	DN20/G3/4
2800	42	5.7	66	24	3.4	83	DN20/G3/4
3000	45	5.8	84	24	4.3	105	DN20/G3/4
3250	48	5.8	102	24	5.2	127	DN20/G3/4

TDM-70ERU-DC24							
Speed(Min)	Flow(L/min)	Head(M)	Effective Power(W)	Voltage(V)	Current(A)	Output Power(W)	Pump Interface Inlet/Outlet
1600	22	1.7	12	24	0.6	15	DN20/G3/4
1800	26	2.5	18	24	0.9	22	DN20/G3/4
2000	30	3.1	23	24	1.2	29	DN20/G3/4
2200	33	4.0	31	24	1.6	39	DN20/G3/4
2400	36	4.7	41	24	2.1	51	DN20/G3/4
2600	40	5.6	53	24	2.7	66	DN20/G3/4
2800	42	5.7	66	24	3.4	83	DN20/G3/4

◆ Dimensions

Note: Data is for reference only. Dimensions may vary due to different motor usage. Please contact Chuangsheng Company for official drawings.



◆ Optional Materials and Temperature Range for Wetted Parts

Pump Body	
Material	Temperature Range
GFRPP	-20°C-90°C
CFRPP	0°C-80°C
PVDF	-20°C-90°C
CFETFE	-30°C-110°C

Seals	
Material	Temperature Range
EPDM	0°C-60°C
VITON	-30°C-70°C
FKM	-30°C-100°C
PTFE	-80°C-150°C

Wear-resistant Parts	
Material	Temperature Range
995 Aluminium oxide ceramics	-60°C-150°C
SIC	-80°C-280°C
PTFE	-80°C-150°C

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