

Electric motors for drive systems

Powerful electric motors from Fischer Panda

- Permanent magnet technology
- Highly efficient
- Brushless and sensorless
- High-grade steel / aluminium housing
- High torque - even at low speeds
- Easy to maintain - suited for commercial applications
- Regeneration
- No oil used for cooling
- Maximum torque - from the first turn!
- Quiet - no gearbox
- Integrated thrust bearing up to 100 kW
- All performance ratings = on the shaft
- Fischer Panda "EasyBox" 48 V low voltage system
- Fischer Panda "EasyBox" 420 V high voltage system

Fischer Panda manufactures brushless permanent-magnet electric motors which have an efficiency of up to 96% from 3.8 kW to 100 kW. They are available as underwater podded, shaft and auxiliary drive versions. The motors are sensorless.

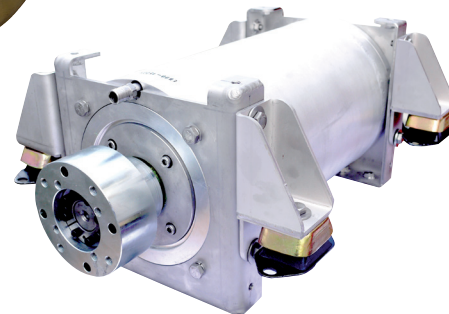
Manoeuvring in the harbour is child's play because full torque is available from the motor throughout the entire speed range.

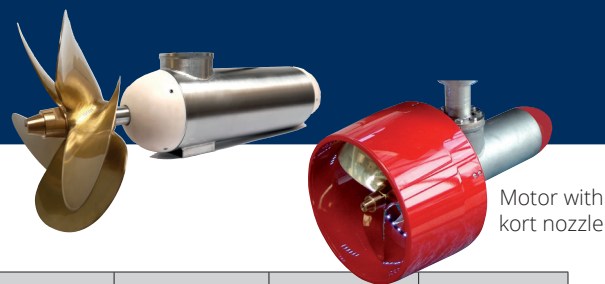
The underwater podded motors are made of high-grade steel and can be fitted to an existing rudder or steering system. These feature a 3-stage sealing ring which provides a high degree of security and the minimum of maintenance. Fischer Panda offers various mountings to suit various hull forms.

The versions are designed to be mounted within the vessel. They feature a double-walled aluminium housing which is water-cooled with an integrated thrust bearing (for versions up to 100 kW).

If the motor is installed as an auxiliary drive, a parallel hybrid version with an electromagnetic coupling is available. It is easy to install, economical and very quiet and can be operated on protected waters where combustion engines are prohibited. Sailing yachts with a fixed propeller can let the propeller rotate (drag) to recharge the batteries.

A maximum performance of 48 V / 20 kW or 420 V / 100 kW can be achieved on each drive shaft (depending on system). All motors can be combined using the Fischer Panda "Easybox" drive system. The installation is cost-effective and easy for a qualified technician. All systems are tested under load before being delivered to the customer.





Motor with Kort nozzle

Underwater podded motor

Type	Version	Voltage	Performance	Speed	Torque	Weight	Operation
		[V]	[kW]	[rpm]	[Nm]	[kg]	
A06-140-6-AZ	Podded underwater drive	48	7.5 / 3.8	2500 / 1250	28	18.7	S1
A50-160-6-AZ	Podded underwater drive	48	10	1200	79	50	S1
B00-150-8-AZ	Podded underwater drive	48	10	600	160	76	S1
B00-150-8-AZ	Podded underwater drive	48	20	1200	160	76	S1
B00-300-8-AZ 20 kW	Podded underwater drive	48	20	600	320	120	S1
B00-360-8-AZ	Podded underwater drive	360	30	1200	238	107	S1
B00-360-8-AZ	Podded underwater drive	360	50	1200	397	138	S1
B00-360-8-AZ	Podded underwater drive	360	80	1900	398	138	S1
B00-430-8-AZ	Podded underwater drive	420	100	1200	800	219	S1

Note: The propeller is only included when the motor is fitted with a Kort nozzle.
If this is not the case, the propeller must be purchased separately.



Shaft motor

Type	Version	Voltage	Performance	Speed	Torque	Weight	Operation
		[V]	[kW]	[rpm]	[Nm]	[kg]	
A50-160-6-SH	Shaft drive	48	10	1200	79	44	S1
B00-150-8-SH 10kW	Shaft drive	48	10	600	160	58	S1
B00-150-8-SH 20kW	Shaft drive	48	20	1200	160	58	S1
B00-300-8-SH 20kW	Shaft drive	48	20	600	320	96	S1
B00-360-8-AZ	Shaft drive	360	30	1200	238	106	S1
B00-360-8-SH	Shaft drive	360	50	1200	398	107	S1
B00-360-8-SH	Shaft drive	360	80	1900	398	107	S1
B40-430-8-SH	Shaft drive	420	100	1200	796	167	S1

Parallel hybrid drive



Type	Version	Voltage	Performance	Speed	Torque	Weight	Operation
		[V]	[kW]	[rpm]	[Nm]	[kg]	
B00-150-8-SH	Parallel hybrid drive	48	10	600	160	71	S1
B00-300-8-SH	Parallel hybrid drive	48	20	600	320	103	S1
B00-360-8-SH	Parallel hybrid drive	360	50	1200	397	125	S1

Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. Please note that the data in this publication reflects the technical state at time of print. Due to our policy of continual product development, we reserve the right to alter technical specifications without notice.

Stand: 01 / 2020



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