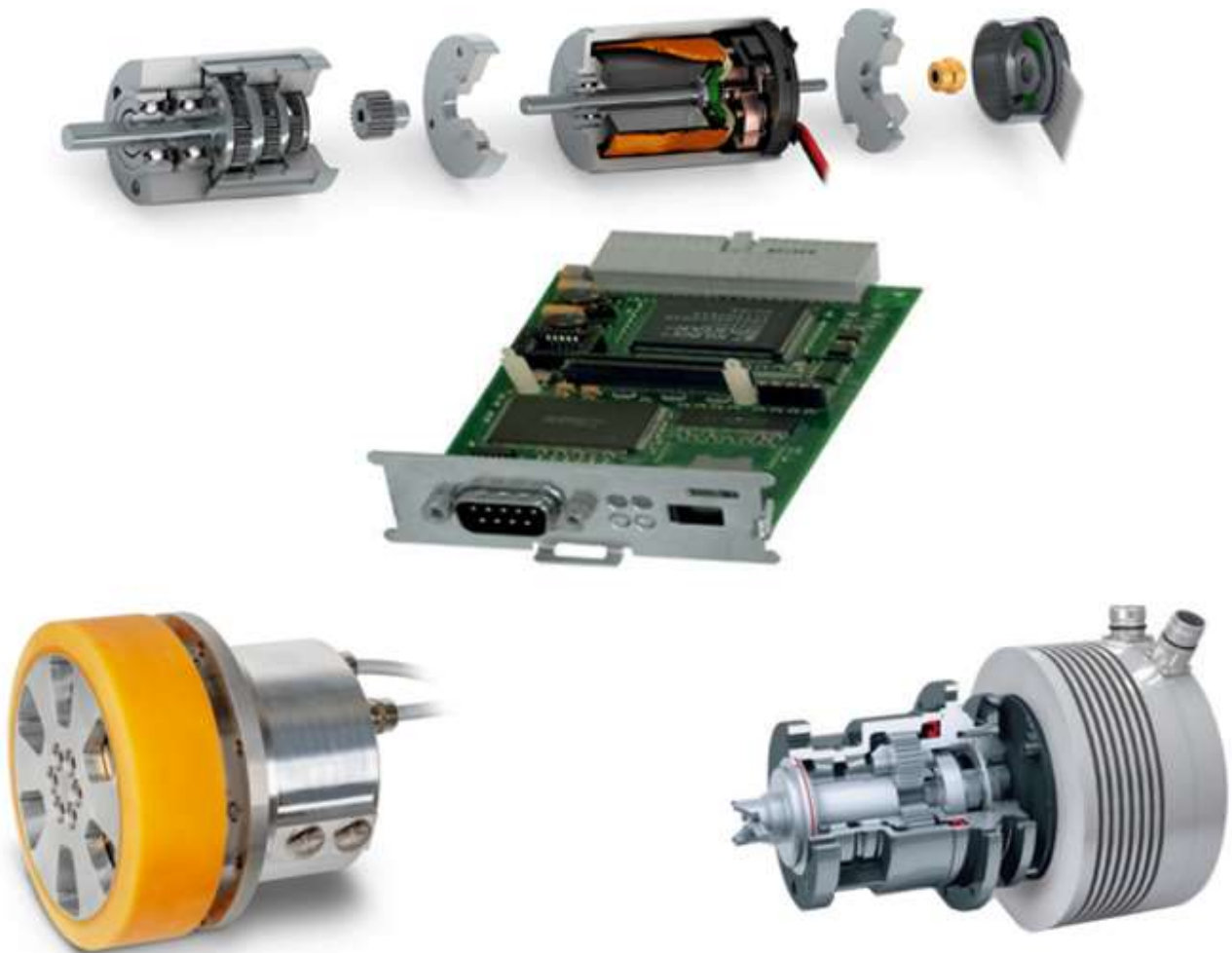

E-Mobility

Motors and Drivers



Electric Motors

Today, electric motors form an essential part of the energy-efficient drive technology of industrial machines and electrical transportation. As an independent supplier, Vandapower can supply various type of electrical motors with the wide range of torque and speed.





One-stop shop



On-time delivery



Independent technical advice

Servo Motors


BAUMÜLLER



AC Servo Motor

- General purposes
- High dynamic
- High speed
- High precision
- High torque
- 0.3 - 150 [kW]
- 2 - 1 050 [Nm]
- 1 000 - 6 000 [rpm]
- 230 - 400 [V]

maxon






DC Motor Compact Driver Gear and Electronics

- Integrated commutation electronics with 4-Q speed control
- Short design with high torque
- Compact drive with integrated EPOS4 positioning and speed controller
- High power density
- 230 - 316 [W]
- 376 - 779 [Nm]
- 2 700 - 4 500 [rpm]
- 24 - 48 [V]

- for other brands and/or other types, please contact us



AC Motors		
		<p>Three-Phase Synchronous Motors</p> <ul style="list-style-type: none"> - Variety of IP classes - With smooth shaft and parallel key shaft options - Cooling system - 5.3 - 295 [kW] - 43 - 1 330 [Nm] - 500 - 4 500 [rpm]
		<p>Three-Phase Asynchronous Motors</p> <ul style="list-style-type: none"> - All models are optionally available with a brake - High torque accuracy - 3.5 - 400 [kW] - 25 - 3 200 [Nm] - 400 - 3 000 [rpm]
		<p>AC Disc Motors</p> <ul style="list-style-type: none"> - Ironcore and Ironless - High torque thanks to NeFeBr magnets - Optionally available with brake, tachometer, encoder and gearbox - 400 - 6 300 [kW] - 0.6 - 80 [Nm] - 350 - 4 500 [rpm]
		<p>MI Asynchronous Motors</p> <ul style="list-style-type: none"> - Available individually or as a complete system with separate suitable motor controller (MC-040) - Robust or light, efficient and compact versions with permanent magnet - Complete low voltage drive systems with high power density - 4 - 8 [kW] - 90 [Nm] - 8 000 [rpm]
		

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Independent technical advice

DC Motors

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Brushed

- Compact motor due to its ironless winding
- Minimal electromagnetic interference
- With an efficiency of up to 90%
- Speeds of more than 20 000 rpm have been attained with some special versions
- 0.3 - 250 [W]
- 0.3 - 888 [Nm]
- 4 000 - 9 000 [rpm]
- 3 - 70 [V]



Brushless

- The motor has a rotating permanent magnet, with or without ironless winding
- It has a Hall sensor to know the position of the motor and thus have a controlled starting of the motor
- 0.3 - 600 [W]
- 0.8 - 1 040 [Nm]
- 6 000 - 110 000 [rpm]
- 3 - 60 [V]



Compact Driver Electronics



- Integrated commutation electronics with 4-Q speed control
- Short design with high torque
- Compact drive with integrated EPOS4 positioning/speed controller
- High power density
- 230 - 316 [W]
- 376 - 779 [Nm]
- 2 700 - 4 500 [rpm]
- 24 - 48 [V]

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DC Motors		
		<p>Disc Motors</p> <ul style="list-style-type: none"> - Direct current disc motors are permanent magnet motors with an ironless rotor and barrel commutator - The shortest design requires only 39.5 mm installation space in the axial direction - 16 - 204 [W] - 0.055 - 1.73 [Nm] - 1800 - 4800 [rpm] - 12 - 48 [V]
		<p>Compact Synchronous Motors</p> <ul style="list-style-type: none"> - Permanent magnet synchronous motors with integrated power inverters - The PowerMELA drive concept consists of a permanently excited synchronous reluctance motor and an integrated four-quadrant frequency converter. - 50 - 280 [kW] - 160 - 1 220 [Nm] - 3 000 - 6 000 [rpm] - 400 - 695 [V]

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DC Motor - Compact Designs		
		<p>Wheel Drive</p> <ul style="list-style-type: none"> - The system is a modular, highly integrated, and compact drive system - The standard configuration consists of the motor, gearhead and encoder - It can be individually supplemented with brake, controller and wheel as desired - 8.5 - 27 [Nm] - 20 - 290 [rpm] - 12 - 60 [V]
		<p>Bike Drive</p> <ul style="list-style-type: none"> - Accelerates from 0 to 9 m/s in less than 3 seconds - It enables an average weight cyclist (79.5 kg) to climb an altitude of 975 m at 10% average incline in less than 30 minutes - 500 - 600 [W] - 19 - 26 [Nm] - 183 - 290 [rpm] - 48 [V]
		<p>Wheel Drive</p> <ul style="list-style-type: none"> - No gearbox – no wear - Longer service life compared to conventional drive technology - Three standard sizes - Possible to replace the wheel - Can be combined with various controllers - Customer-specific mechanical integration and system connection - 3 - 10 [Nm] - 154 - 530 [rpm] - 48 [V]

		<p>Ket-Rob Drive platform for AGV/AGC</p> <ul style="list-style-type: none"> - Complete basic drive module for AGV/AGC - Customer-specific adaptations of the drivers or systems are possible - Dimensioning of the drive platform according to individual requirements - 24 - 48 [V] - 7 [km/h] - 210 [W] - Load capacity: 100 [kg]
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- for other brands and/or other types, please contact us

AC Motor - Compact Designs		
		<p>Wheel Hub Gears</p> <ul style="list-style-type: none"> - Available in single and multilevel versions with different ratios - Optional decoupled version - Running noise < 68 [dB] - Wheel load 700 - 2 100 [kg] - 160 - 800 [Nm] - 6 000 [rpm]
		<p>Ship Motors</p> <ul style="list-style-type: none"> - Water cooling in a stainless steel design - Suitable for sophisticated direct drive technology - Encoders: Resolver, SinCos (optional) and Digital encoder (optional) - IP54 type of protection - Other encoders on request - 2.7 - 1 542 [kW] - 140 - 39 500 [Nm] - 100 - 1 500 [rpm]

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On-time delivery



Independent technical advice

Controllers and Drivers


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Frequency Converter

- Numerous protection and overload functions, such as phase failure detection on the power supply and motor
- Extensive control and data management continuously provide an accurate overview of the current drive status
- Electronics supply external 24 [VDC]
- Supply frequency 47 - 63 [Hz]



Servo Driver

- Servo drive for higher output ratings
- All devices have integrated rectifiers, DC link capacitors and inverters
- Water cooling system
- 1.1 - 315 [kW]
- 2.5 - 615 [A]



Modular Servo Driver

- Individual modules easily can be removed or added over an integrated drive connect system without having to disconnect the entire drive system
- With high-performance power units in air-cooled, water-cooled and cold plate cooling versions
- 5 - 200 [kW] DC link power
- 3 - 180 [A]

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One-stop shop



On-time delivery



Independent technical advice

Controllers and Drivers

maxon



Programable Master Controllers

- Controlled Variables: Speed, Position and Current
- Servo amplifiers for controlling the fast reacting
- Programmable multi-axis masters
- The frequency ranges depend on which kind of motor and controller you use
- 2 - 12 [A]
- 10 - 70 [V]


BAUMÜLLER



Drive System for Mobile Applications

- The b maXX mobil can brake in both directions and recover energy in addition to generating drive
- With and without galvanic isolation
- 40 - 225 [A]
- 12 - 14 V

- for other brands and/or other types, please contact us