

Featured supplier

**FRIWO**

Friwo is the pioneer of interchangeable power supply units. The new "NEO-family" sets the new standards and future look. USB Power, battery chargers and accessories make the power supply offering complete. More recently, Friwo started strategic developments in all components needed for a modern electric drive: from the display, motor control unit and drive unit to the control software.

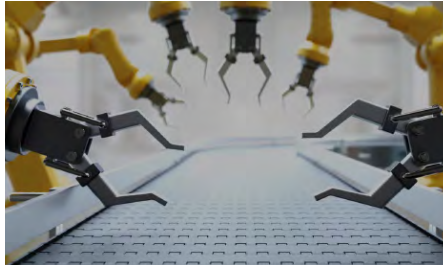
*Plug - in and Smart Power Supplies  
& Drive System Solutions*



## Applications & Market Examples



**Tools**



**Industrial**



**Medical**



**E-Mobility**



**Drive Solutions**



**Digitally Controllable Drives**

## Know-How in Power Supply Systems & Drive Systems

### Power Supplies:

- Highly efficient power supply solutions with up to 1,000 W power output
- Microcontroller operated charging systems with up to 500 W output power
- Medical technology solutions with  $\sim 0 \mu\text{A}$  leakage current
- Over 20 years of experience in ASIC design
- Patented primary PWM controller
- Use of ICs to protect against product piracy

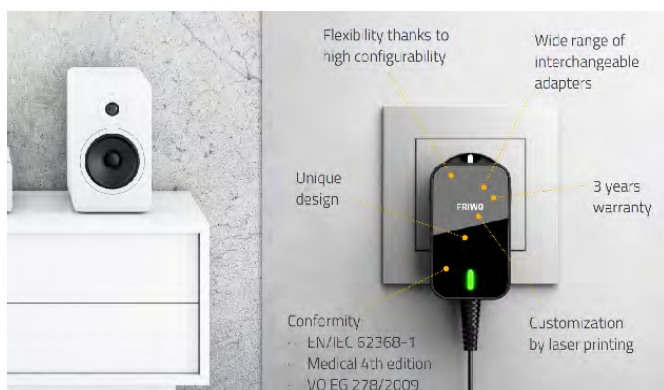


### Drive Systems

- Solutions for 48 V drive systems with up to 12 kW power output
- Modular system for the individual electrification of drive units
- Highly efficient control algorithms for hybrid synchronous machines
- State-of-the-art communication interfaces
- Robust solutions for continuous outdoor use under all climatic conditions



## FOX NEO Power Supplies



## Compact e-bike charger

- Shortest charging times thanks to high currents:
- Two power classes available with 4 A or 6 A
- 5 V / 50 mA output for battery electronics
- Variety of communication options, e.g. CAN-Bus
- With PFC and resonant circuit
- Fanless design for noiseless charging
- Closed housing without any ventilation slots
- Surface temperature of max. 65°C
- Safety: integrated temperature protection, timer, current limiting



## Standard & High Power Battery Packs



## Drive System Solutions

- Motor Controllers
- Service Software
- Drive Units
- Vehicle Control Units
- Displays
- Chargers
- Battery Packs

## Best-in-class Motor Controller





# Co-creation starts here



ELECTRONIC COMPONENT SOLUTIONS	<ul style="list-style-type: none"> <li>• Semiconductors</li> <li>• Passives</li> <li>• Electromechanical</li> <li>• Photonics</li> </ul>	<ul style="list-style-type: none"> <li>• Wireless Modules</li> <li>• Wireless Boxed</li> <li>• Networking &amp; Connectivity</li> </ul>
WIRELESS & NETWORKING		
DISPLAY & TOUCH	<ul style="list-style-type: none"> <li>• Display</li> <li>• Touch</li> </ul>	<ul style="list-style-type: none"> <li>• Led</li> <li>• Solid State Lighting</li> </ul>
LED & SOLID STATE LIGHTING		
EMBEDDED COMPUTING	<ul style="list-style-type: none"> <li>• SBC, CPU &amp; IPC</li> <li>• Memory Storage</li> <li>• Rugged Mobile Computing</li> </ul>	<ul style="list-style-type: none"> <li>• Power Conversion</li> <li>• EMC</li> </ul>
POWER & EMC		

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