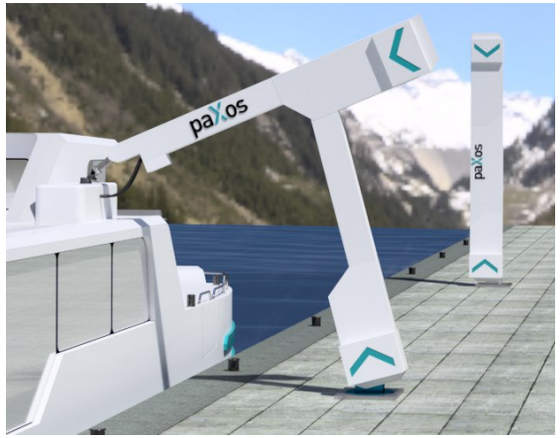
CABLE BRIDGE

In the electrification of ships as well as in agriculture and aviation, it is essential for a reliable charging connection to mechanically secure the charging interface on the one hand and to relieve the charging cable, plug and socket on the other. The cable bridge provides a secure and at the same time flexible connection between a loading station and a vehicle, allowing relative movements. A towing eye is used to connect the cable bridge to the vehicle. Then the charging cable is connected to the charging socket located on the vehicle.



- Secure and flexible connection of charging station and vehicle
- Relief of charging cable, plug and socket
- Slim design (foldable)
- Pivoting arms above a height of 2.3m
- Easy to use

paXos

We support you in your projects in the areas of energy technology, automotive and industry from the initial product idea through prototype construction to the start of series production or from the greenfield to the finished factory and production start. In our innovation division, we also develop highly efficient and forward-looking solutions in the field of renewable energies and electromobility.
We look forward to getting in touch with you!

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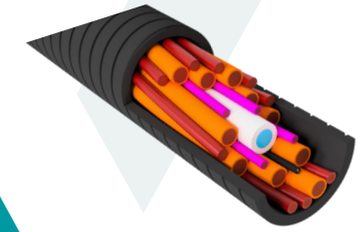
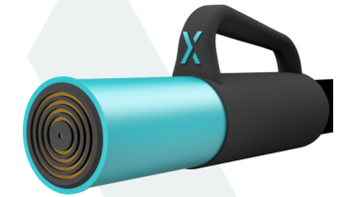
ELECTROMOBILITY



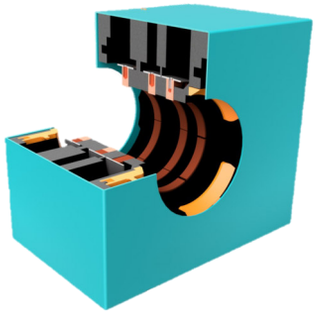


POWER 2 DRIVE award 2023 FINALIST

HIGH PERFORMANCE CHARGING SYSTEM

CHARGING PLUG & CHARGING SOCKET

With a reliable High Performance Charging System (HPCS), the electrification of cars, commercial vehicles, ships and even aircraft is possible. In order to achieve broad acceptance, a short charging time (idle time) is necessary, especially in the area of commercial vehicles, as this is the only way to ensure economic efficiency. The charging plug "Cool-Load Megawatt" from paXos provides exactly the solution for this.



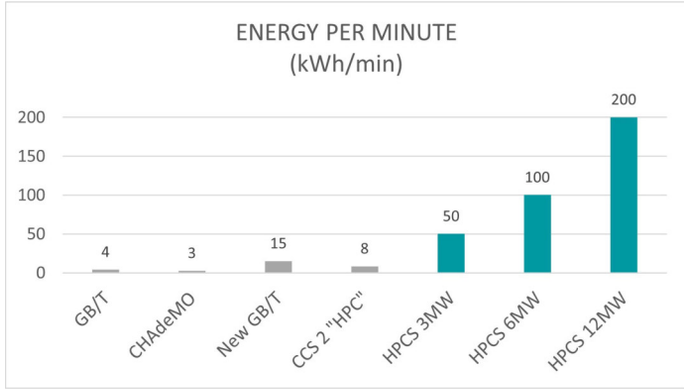
Supported by:

Federal Ministry for Economic Affairs and Climate Action

on the basis of a decision by the German Bundestag

- High Performance Charging System for heavy duty vehicles (3 -12MW), scalable design up to 40MW
- Very high efficiency: 99.74% at 5MW
- Radial connection between plug and socket increases contact surface
- Direct cooling of contacts and cables
- Flexible charging cable
- Long service life (min. 100,000 charging cycles)
- Coolant transfer to the vehicle possible

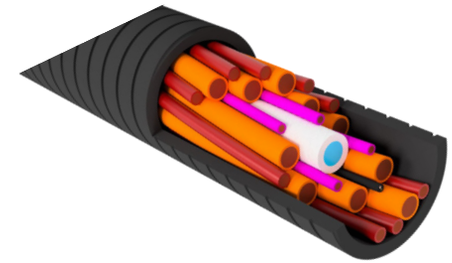
TECHNICAL DATA



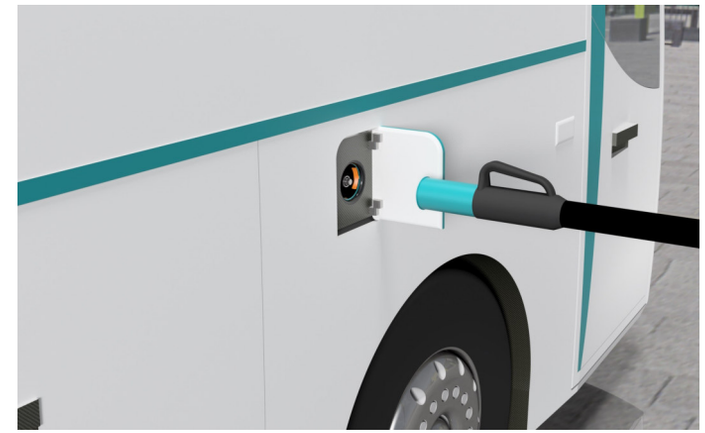
In the future, the classic "pin & socket" connector will be one of the limiting factors within the charging infrastructure. The increase in the size of the connectors leads proportionally to higher plug-in forces, which have a negative impact on operability. With the "Cool-Load Megawatt" from paXos, which has ring-shaped contact surfaces, the charging power can be adapted to future requirements simply by scaling the connector diameter. In this way, outputs of up to 40MW are possible.

Parameter	HPCS 3 - 12MW
Power	3 - 12MW (dc 100%)
Nominal Voltage	1,500V
Nominal Current	2,000 - 8,000A
Contact Area	5,300mm²
Surface Pressure	> 100N with mechanical Connection System
Insertion Force	~ 0N
Handling	Orientationless Contacting
Cooling	Direct Contact Cooling

CHARGING CABLE



The division of the power cables into several small individual ones and the stranding of these individual wires results in a high flexibility of the charging cable. In the center of the cable is the supply line for the coolant, which flows back between the individual, insulated cores. This provides excellent cooling and high flexibility of the cable. In combination with the paXos charging plug, a particularly powerful and convenient charging system is provided.



You can find more information about our products here: