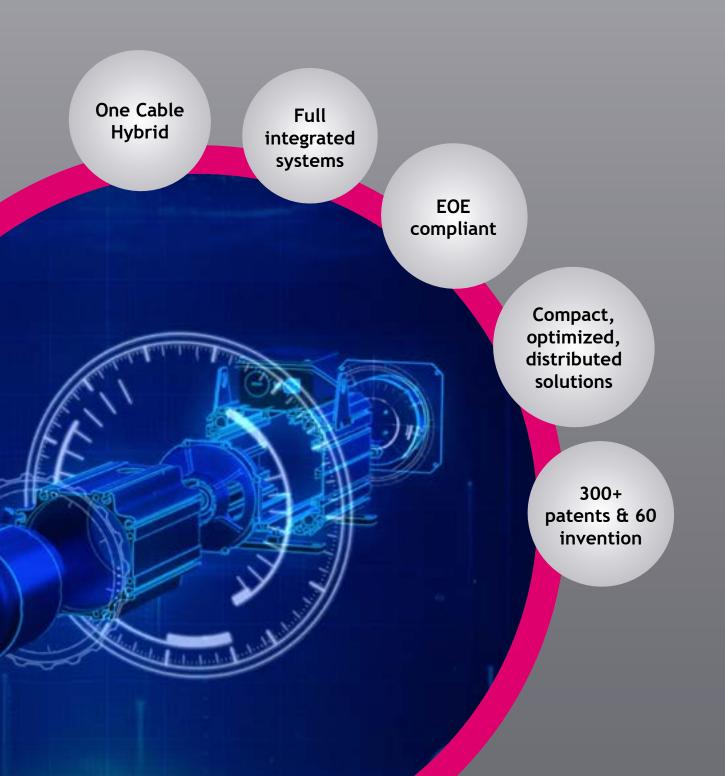


Bringing technology and intelligence to motion control

OSAlcnc and Physis have came together to enhance the Open Control product line with a wide range of IML Motors.

Since its foundation in 2001, Physis has been dedicating to the innovation and industrialization of electrical drive technologies, offering servo products and solutions in the motion control and energy conversion application fields.

Today the company stands as an integrated and innovative high-tech enterprise, bringing together R&D, production, and sales.



IML Motors & Servo Drive Brushless

High-level motion control applications with cabinet free technology

IML motor with integrated electronics offers maximum control and power in a compact space. With the integration of the drive directly on the motor, the machine architecture is simplified: reduced wiring, minimal cabinet dimension, linear machine design, optimized machine assembly process.

The brushless motors are available with a wide range of torque and motor flange dimensions, in order to fullfill various customer's requirements. The IML motor line is continuously expanding, allowing for customization of both the motor and electronics.

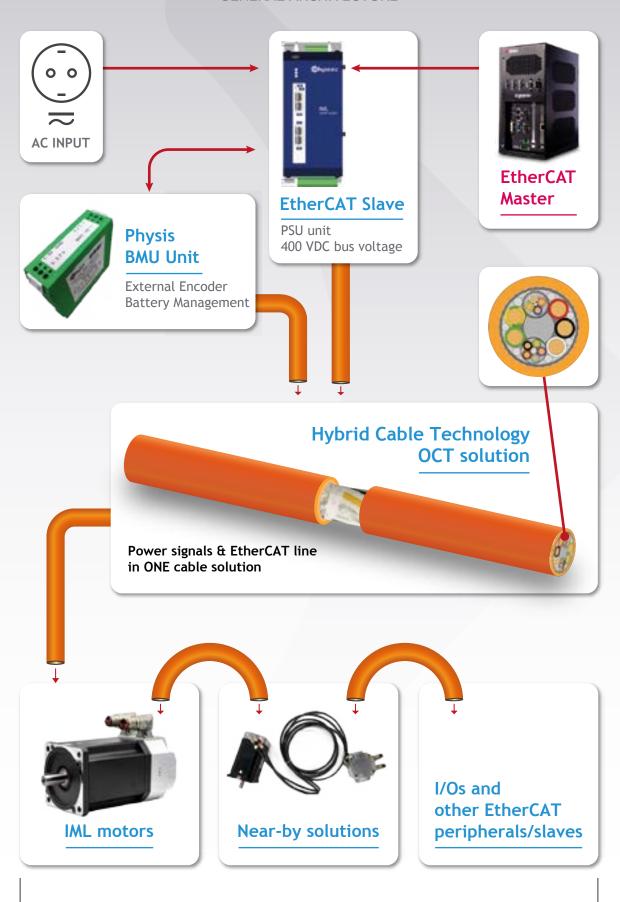
Main Features

- Daisy chain connection
- Communication protocol: EtherCAT COE EOE supported
- Device profile DS402, interpolated mode, positioning, homing, Touch probe input
- Safety: STO 2 channel SIL 3 Level
- Feedback sensor: Heidenhain sensor single or multi-turn with external battery
- IP65 protection
- Brake Option available
- Near-by installation available

Applications

- Glass, Stone, Wood
- Metal Sheet
- Textile
- Dosing, Weighing
- Printing, Paper Converting
- Packaging
- Food, Beverage
- Robotics

GENERAL ARCHITECTURE



EtherCAT Slaves

Motor Characteristics

Motor Model	Flange Diam.	Power	Speed	Nominal Torque	Max Torque
IML 04	60 mm	400 W	4000 RPM	0.77 Nm	4 Nm
IML 05	80 mm	800 W	4000 RPM	2.89 Nm	9 Nm
IML 06	115 mm	1980 W	4000 RPM	4.73 Nm	15 Nm
IML 06+	115 mm	2500 W	4000 RPM	6.82 Nm	16 Nm
IML 07	130 mm	1800 W	1500 RPM	11.5 Nm	35 Nm

IML PSU Unit Configuration

PSU Model	Supply Voltage	Rated Power	Peak Power	EtherCAT	
PSU.40	400 VAC input 400 VDC output	4 KW	10 KW	•	
PSU.80	400 VAC input 400 VDC output	8 KW	20 KW	•	

