

PRESS RELEASE



e-dro - New drive platform for hydro-battery electric vehicles

For battery electric vehicles with the need of a hydrostatic system or for a hydrostatic transmission that shall become a BEV, Bonfiglioli offers a new solution called e-dro or HydroBEV. In the machine system, e-dro is driving the hydraulic pump. In its basic configuration e-dro is composed by a permanent magnet motor and an inverter. The optional components that can be added to the system are a gearbox, a DCDC-Converter, and a telematics control unit. In order to make e-dro more flexible and to give to the customers the chance to adapt the e-powertrain to specific applications, a power control unit could also be added to the traditional configuration. Bonfiglioli is currently offering two sizes:

The air-cooled e-dro 20 is operating at a voltage level of 72 to 120 Vdc. Its peak power is 25 kW it delivers a peak torque of 100 Nm. Its rated speed is 3,000 rpm. There are front flanges available for hydraulic pumps SAE A and SAE B.

With a peak power of 70 kW, e-dro 70 is liquid cooled, covers an operating voltage range of 220 to 450 Vdc and generates a peak torque of 495 Nm. Its maximum speed is 4,000 rpm with a gear ratio of 3.0. Front flanges are available for hydraulic pumps SAE A, SAE B, and SAE C.

Customers enjoy the advantages of easy installation and a reduced time to market for their vehicles. The partnership with Bonfiglioli lowers the need of EV-knowledge and gives some freedom in vehicle modifications. And in general, compared to vehicles with an internal combustion engine (ICE), there is a reduction of weight and volume of more than 80 percent and the power density goes up to 2.26 kilowatt per kilogram with the electric drives system versus 0.19 kilowatt per kilogram with an internal combustion engine.

One major goal of Bonfiglioli is to speed up the transition to electric solutions in on- and off-highway vehicles by supporting customers on the integration of the electric drive system into their battery electric vehicle (BEV) architecture. In order to push in this direction, Bonfiglioli extends the competence centre within her division Mobility & Wind by "Ennowing" to offer integrated, all in one mobile-electric powertrain solutions for different power ranges. Bonfiglioli goes one step further in providing their customers in the vehicle industry more energy-efficient solutions, the opportunity to reducing noise and harmful emissions as well as helping to increase the vehicle up-time, to reduce the total cost of ownership, and to provide a better maneuverability.

www.bonfiglioli.com

About Bonfiglioli

Bonfiglioli is a worldwide designer, manufacturer and distributor of a complete range of gearmotors, drive systems, planetary gearboxes and inverters, which satisfy the most challenging and demanding needs in industrial automation, mobile machinery and renewable energy. The Group serves more industries and applications than any other drive manufacturer, and is a market leader in many sectors; her three business units - Discrete Manufacturing & Process Industries, Mechatronic & Robotics and Mobility & Wind Industries - embody all the expertise and experience acquired over the years in the respective industries.

Established in 1956, Bonfiglioli operates worldwide in 80 countries with 24 branches 10 of which with assembly, 13 production facilities, a wide distribution network comprising more than 550 partners, and can count on over 4.000 professionals. Excellence, innovation and sustainability are the drivers behind

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our growth as a company and team and represent the guarantee of the product and service quality we offer our clients. More information available at: www.bonfiglioli.com

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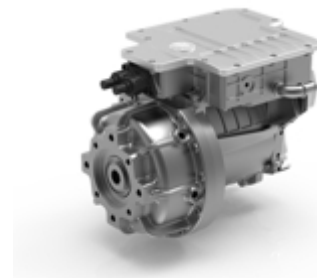
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Driving hydraulic pumps in BEVs with e-dro 20 from Bonfiglioli, the source for all in one mobile-electric powertrain solutions

Bonfiglioli-e-dro70.jpg



Driving hydraulic pumps in BEVs with e-dro 70 from Bonfiglioli, the source for all in one mobile-electric powertrain solutions

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