TRANSFLUID trasmissioni industriali



March 2017

drive with us

News, events and information from Headquarters

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MIT & AMSS4







APRIL 4-6, 2017 Sindelfingen, Stuttgart, Germany

TRANSFLUID WELCOMES YOU

electric & hybrid marine TRANSFLUID WELCOMES YOU WORLD EXPO 2017 AT BOOTH 2000

JUNE 6-8 2017 Amsterdam, Netherlands

& hybrid vehicle technology expo

September 12-14, 2017 Novi.Michigan USA

Transfluid welcomes you at booth 845



TRANSFLUID WELCOMES YOU at Stand n° 378 Hall A6

Transfluid to complete the range of EPS - Electric Propulsion System.

Transfluid recently signed an agreement with Mercury, the well known manufacturer of marine engines and stern drives, which grants Transfluid the right to directly source the stern drive transmission from Mercury Europe head quarter. This type of transmission will be combined with the permanent magnets electric motor produced by Transfluid, in the range from 20kW (27hp) to 74kW (100hp). This move completes the range of marine propulsion systems offered by Transfluid: shaft propulsion, sail drive and stern drive.

The inboard EPS, together with Transfluid marine gear, covers the range from 10hp to 100hp; the sail drive, cooperation between Transfluid and Twindisc, the american marine transmissions producer, goes from 10hp to 50hp; finally, the EPS stern drive, with powers as mentioned above.

Mercury's stern drive type, involved in this agreement, is the ALPHA ONE, light, simple, two available ratios, uses standard propellers. Stern drive is a good alternative against outboard applications. Transfluid, together with its hybrid transmissions, again shows the attitude for environmentally friendly solutions. From "drive with us" industrial power transmission equipments to "sail with us" marine products.



No. 2



Application & Products Kleeman

In the early 90's Transfluid developed a line of drain type fluid couplings for Diesel engine applications called KPTOs. Since then more than 6,500 units have been installed in a variety applications, with the main application being mobile recycling machines like crushers, wood chippers, tub grinders, and shredders.

One important successes in this field is with Kleemann GmbH (Wirtgen Group - Germany), a wellknown stone crusher market leader. Since 2013 they have been installing 19 and 21 KPTO's on their line of jaw, cone and impact crushers. To date we have sold Kleemann approximately 1.750 units. After intensive field tests that simulated all the possible extreme duty conditions Kleemann quickly understood all the advantages of the KPTO fluid coupling. The field tests as well as the design and installation of the units into the crushers was supported by Transfluid's engineering staff. The result is a high-performance machine with excellent productivity and low fuel consumption. The quality reputation of KPTO on the market and Transfluid's worldwide service network were the final elements supporting Kleemann's decision to standardize with KPTO on their machines.

Hyundai Samho

We are happy to announce the acquisition of a prestigious order from Hyundai SAMHO for variable feed fluid couplings.

This order is part of the supply for a SAFI Independent Power project for a coal fired power plant. The Project site in Morocco on the Atlantic Ocean coast, approximately 15 km southwest of the city of Safi, Morocco. The plant consists of two 660 MW units. Imported coal is the main fuel and sea water will be used for cooling and consumptive purposes. Daewoo E&C is the main EPC Contractor. The boiler will be supplied by MHI, Japan and the Steam urbine Generator by Hitachi, Japan. After a long negotiation and thanks to close collaboration with our Korean distributor KIWON Solutec, Transfluid receive an order for twenty-four KPTB fluid coupling units ranging from size 21 to size 29, for the bulk material belt conveyor drives.

The supply includes the KPTB basic units with standard instruments, a special junction box including all electric motor starting relays and thermal protectors, B3M elastic alignment couplings, radiator coolers mounted onboard, and drum brakes for some units.

The supply has been divided

The supply has been divided into 13 units delivered in 2016 for immediate installation, and 11 units as spare parts to be delivered in 2017 and kept in stock.





Prunéřov Powerplant

To further affirm the growing presence of its variable speed fluid couplings in the Power Generation business, Transfluid has recently received an order for two additional 29KSL fluid couplings by EPC contractor Vitkovice Gearworks. This is part of a supply for the Prunerov Power plant in Czech Republic, a total of 26 units.

The Prunéřov Power Station (Czech: Elektrárna Prunéřov, EPRU) is the largest coal-fired power station in the Czech Republic with an installed capacity of 1,490 MW. It is located near Kadaò and consists of 5 x 210 MW units.

In 2010 CEZ; the owner of the plant, started a project for modernization of unit number 2, which led to the initial acquisition of special 29KSL Transfluid variable speed fluid couplings to drive coal mills, powered by 750kW/1500rpm electric motors. The 29KSL units feature a lowered housing and Reich Arcusaflex input and output elastic couplings to withstand the sharp acceleration torque of the electric motors.

All 24 units have been in operation since 2011 without any problem, and in 2016 Transfluid delivered two more units to be stored as spare parts.

Transfluid's Hybrid System for Bavaria Yatch: "Sedan E40"

BAVARIA YACHTBAU AND TRANSFLUID AGREE TO COLLABORATE FOR THE FUTURE OF HYBRID PROPULSION

Bavaria Yachtbau GmbH, Germany's largest shipyard for catamarans, sailing yachts, and motor boats, and Transfluid S.p.A., have reached a cooperation agreement. The aim is to offer innovative hybrid drivetrains for yachts built by Bavaria Yachts in the future. The first yacht from Bavaria Yachtbau to be fitted with a Transfluid hybrid system is the new semidisplacement motor yacht E40.

Bavaria Yachtbau GmbH and Transfluid share a drive for innovation, a high level of technical expertise and strong quality demands. The two companies have reached a longterm cooperation agreement on the development and installation of hybrid drive lines in vessels built by Bavaria Yachts.

The agreement is for Transfluid's hybrid system, which consists of a hybrid module that integrates the clutch on which the electrical machine is mounted, and connects directly to the flywheel of the Diesel engine.

The new semi-displacement motor-yacht E40 is the first project on the agenda for the engineers at Transfluid and Bavaria Yachts.

The first boat with the hybrid propulsion, the E40, is already available and is being successfully marketed by Bavaria.

During navigation, skippers can switch between diesel and electric mode or use the booster mode which both propulsion systems are used together, without the need to stop the boat. Only a simple switch is required for the innovative Transfluid hybrid system to switch between modes.

Bavaria, with the collaboration of Transfluid, has created the possibility to offer innovative and eco-friendly boats and yachts with hybrid propulsion.

Now Bavaria and Transfluid have begun work on another boat project to increase the Bavaria Yachtbau hybrid vessel catalog.

Volvo 110 kW(147 hp) - @ 3000 rpm • Transfluid HM560 - 20kW @3000 rpm





New commercial agreements: MIT & AMSS

EPS20 for airport electric stairs

With pleasure we inform you that, with the good collaboration with our UK Distributor MIT, we have recently supply 6 Electric Propulsion Systems equipped with our 20kW @ 3000 rpm electric motors for an english airport equipments builder.

The EPS20 is equipped with an SPD11S and a Revermatic 11-700 (ratio 2.25).

Into the live PTO of the SPD11S our customer is able to install an hydraulic pump to drive all the auxiliary equipment mounted on board (steering, pistons for stair, etc...).

The output flange of the Revermatic 11- 700 gearbox is connected with a cardan shaft to the vehicle axel for the vehicle traction.

iThe Scope of Supply also includes

the 96Vdc LiFePO4 main batteries, the related 230V battery chargers, and the frequency drives to control and drive the electric motors. All those components are supply and tested by Transfluid in our headquarter.

The EPS20 is built as a complete

package easy to install into the vehicle frame.

The EPS system can be install both on every vehicle for any industrial / civil applications and on every vessel or boat for marine applications (pleasure or professional).

