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ZF MIXES THE WORLD

TRANSMISSION TECHNOLOGY FOR TRANSPORT MIXERS
A minimal empty weight for truck mixers is crucial for business. Every reduction in weight means a higher payload and lower costs for fuel, tires, fees and taxes. ZF is focusing on that with smaller, lighter and more efficient transmissions.

Worldwide solutions
In driveline technology for concrete mixers ZF is extending its lead in the world’s market. Vehicle manufacturers from the USA to China put their trust in the high quality of ZF mixer transmissions. ZF fulfills this demand through continual product innovation.

Unique design
ZF has developed the ECOMIX II range type CML (Concrete Mixer Lowspeed) for transport mixers up to 16 m³ drum capacity. ECOMIX II is based on the achievements of the first Ecomix generation, however, they are smaller, lighter, tougher, more flexible, quieter, noise reduced and easier to service.

Smaller and lighter
Compared to previous models, the Ecomix II transmissions of the CML series are up to 24 % lighter and up to 50 % shorter. Due to the special design they also offer a wide range of further advantages.

Longer lifetime and more flexibility
Thanks to a tough bearing concept it was possible to significantly increase the output bearing strength, which leads to less sensitivity during off-road operation. The use of patented Elastomer units allow an increase of the axial runout at drum bottom and an increase of misalignment of the drum. With the new bearing concept the installation angle is no longer dependent on drum size and drum filling. An installation angle up to 20° is always possible. The acoustic and mechanic decoupling of drum and vehicle frame leads to considerable noise reduction during operation and improved driving comfort.

Easy maintenance and lifetime oil
The service-friendliness has been improved by an adapted, weight-optimized slow running radial-piston motor and a separate oil volume for the transmission, as well as better accessibility. Instead of the previous sealing collar, a cassette seal is used, making the transmission more robust and increasing the service life. The transmission is fitted with lifetime oil lubrication. This saves costs and preserves the environment. The compact lightweight construction also offers the vehicle manufacturer more design freedom.

Fuel savings
The increased efficiency leads to fuel savings up to 0.5 liter per operating hour.

Off-road specialists
Driveline technology for construction machinery, construction site vehicles and material handling vehicles is developed and produced by the business unit off-highway systems, a part of the ZF division Industrial Technology. In this division, ZF bundles its activities for “Off-Road” applications. Among others it comprises the development and production of transmissions and axles for agricultural- and construction machinery as well as driveline technology for material handling systems.

ZF Group
ZF is a global leader in driveline and chassis technology that responds to global megatrends and is committed to the improvement of efficiency for all business areas.
The revolutionary design of the ECOMIX II transmission made it possible to reduce weight by up to 24%, thus allowing more payload.

**-24%**

ECOMIX II – compact power for the world of concrete

The new ECOMIX II transmission is about 50 percent smaller and 24 percent lighter in comparison to previous models. This allows vehicle manufacturers more flexibility in design and makes assembly easier.

**-50%**

Main product advantages of ZF-ECOMIX II
- Up to 24% lighter: higher payloads
- Up to 50% shorter: more installation flexibility
- Up to 10 dB noise reduction: environmental friendly
- Up to 20° drum installation angle: enables new drum design flexibility
- Increased efficiency: up to 0.5 liter (0.13 gallon) fuel saving per operating hour
- Tougher: improved robustness, increased lifetime, and doubled main bearing lifetime
- Life-time oil filling: easier maintenance and cost savings
- Vibration isolation: absorption via elastomer unit results in improved driving comfort

ECOMIX II CML 10/12

Measures in mm (inches)
PORTFOLIO. For various requirements and numerous classes of transport mixers, ZF offers a finely graded range of transmissions.

INNOVATIONS OF GREAT VALUE. As a worldwide system supplier, ZF is one of the technology and innovation leaders in the field of transport mixers.

Weight and space savings, combined with low noise emissions and environmental protection as well as easier maintenance are main aspects required by modern markets.

PRODUCTS. ZF offers robust and high efficient transmissions for a wide range of transport mixers.

PRODUCT FEATURES
ECOMIX I
- Up to 12 m³ mixing capacity
- Two planetary stages
- To be driven by high-speed hydro motor
- Without oil filling

PRODUCT FEATURES
ECOMIX II
- Up to 16 m³ mixing capacity
- With elastomer bearing
- With low-speed radial piston motor
- With life time oil filling

Learn more about our portfolio of powerful transmissions and find more ZF products by applications.