



Redulus^{4F}

Power Packs For The Future



Over a century of power

The power of the Redulus^{4F} gearbox goes back to the first industrial gears produced by Lohmann & Stolterfoht in 1884. The models have changed over the years; they've become more compact and more powerful. As always the quality, efficiency, robustness, and reliability have been guaranteed.

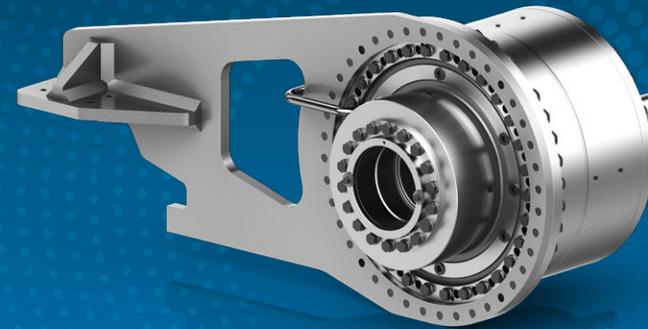
Now, with the introduction of the newest Redulus^{4F}, the gearbox design (with additional sizes) has reached a next level: **flexible, compact, extended load capacity, and advanced serviceability.**

Multifunctional and globally available

The Redulus^{4F} is designed to be integrated in multiple large applications for conveyor systems, the mining and cement industry, bulk material handling, paper production, and more. The flexible design offers over 2 000 customized possibilities, all guaranteeing maximum output.

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Advanced serviceability

Easy access to main components and condition monitoring system ProVID.



Flexible concept

One construction kit, over 2 000 customized possibilities.



Compact design

Smaller outer diameter, reduced weight, and less installation space.



Extended load capacity

Higher torque density to increase lifetime and performance.

Flexible design to perfectly fit most applications



One construction kit offers the opportunity to create over 2 000 gearbox combinations. Various market requirements were taken into account during the development of the Redulus^{4F} kit, so that it offers a solution for multiple customers in different industries.



20

Sizes from 99 to 5800 kNm



Male splined



Female splined



Hollow shaft



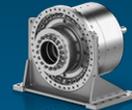
Solid shaft

4

Output designs



Flange connection



Foot-mounted



Single torque arm

3

Main connections



Coaxial planetary pre-stage



Helical gear stage



Bevel stage

3

Standard input concepts



>500

Ratio options



+ **Accessories**, e.g. heating, oil cooling, brakes, electric motors, ...



Compact and lighter design to reduce cost and handling effort



The Redulus^{4F} gearbox is designed to be as compact as possible and still be able to cover a broad torque range. A compact gearbox has a smaller outer diameter, weighs less, and requires less installation space. This way, it's easier to handle, resulting in a simplified installation process and reduced costs.

Compact design



new series
Redulus^{4F} GP 1100

Type

Weight

Output torque

4 510 kg

661 kNm



smaller, less weight;
same torque



former series
Redulus GME 1500

5 300 kg

670 kNm



same size and weight;
higher torque

Extended load capacity



new series
Redulus^{4F} GP 1500

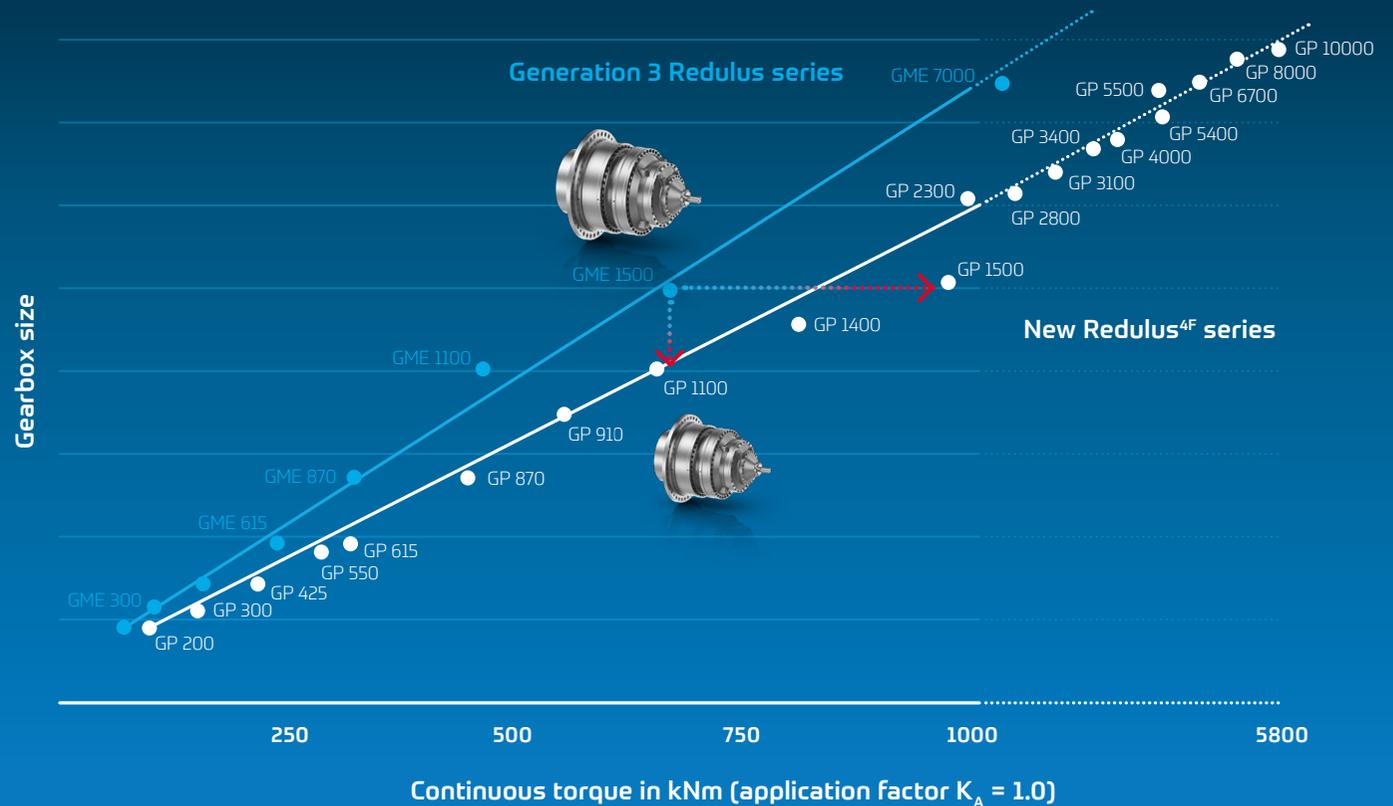
5 220 kg

975 kNm

Extended load capacity to increase lifetime and performance



The unique design of Redulus^{4F} includes 20 sizes, which supports an optimal graduation of torque and size. This delivers up to 40% torque increase per size compared to the previous generation and covers a broad torque range from 99 kNm up to 5 800 kNm.



The new generation Redulus^{4F} series allows either a weight and size reduction with the same output torque or more torque reserves with the same installation space.

Advanced serviceability to minimize downtime

Not only does the Redulus^{4F} have an exceptional maintenance design with easy access to the main components, but it is also linked to ZF's condition monitoring system ProVID, which provides permanent status reports worldwide. This unique combination guarantees proactive service planning and fast interventions on a global scale. Downtime is minimized and output maximized.



ProVID

Condition Monitoring System

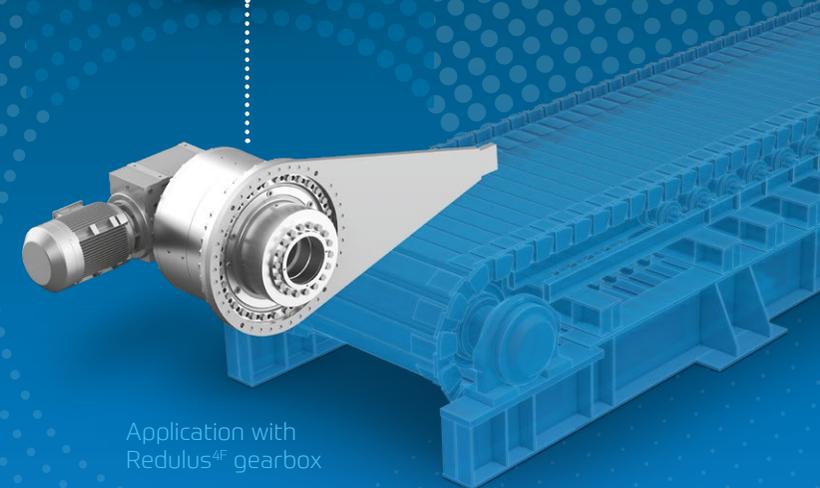
Status information and reporting



ZF ProVID processor

ZF's 'smart' condition monitoring system ProVID ensures permanent recording, evaluation, and documentation of the powertrain. This way, it enables the planning and execution of inspections or maintenance at the best moment. Any irregularities that may occur in the powertrain are detected at a very early stage and the necessary measures are initiated.

Furthermore, as proof of regular system maintenance, all service reports (oil analysis, repairs, annual reports) can be made available online in the dashboard.



Application with Redulus^{4F} gearbox



Easy maintenance design



Fast exchange or repair



Endoscopy bores on all main areas



Permanent status reporting by ZF's ProVID condition monitoring system



Proactive service planning



Fast reaction and global support



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