



**Power to move the world!**



**rollstar**





## ■ Swiss originality and quality also improve quality of life.

The planet earth offers a wealth of renewable energies - we just have to know how to use them. With the right technology for example we can recover valuable gas from bio-waste for heat- and electricity generation. This involves fermenting com-

post and green waste in a fermenting plant. Rollstar uses a central agitating shaft to accelerate the fermentation process which keeps the compost moving and aerated.



Rolling mill



Earth drilling rig



Bending machine





Fermentation systems with Rollstar planetary gear units and externally-mounted electric motors or customer-specified motors, are in use throughout the world. Gear units are available in flange-mounted or male/female mounted versions.



Full-section tunnel boring machine

Cable winch



## ■ Swiss precision for versatile applications.

Ever since it was built in 1174, the swampy ground beneath the bell tower of Pisa has caused it to sink on one side. Hydraulic gear motors from Rollstar have been used to help rescue this UNESCO world heritage site.

Tunnelling machines impose the greatest demands on the reliability and quality of their drive gears. Up to 60 planetary gear units are used in the world's largest tunnelling machine to enable the huge torques to be applied to the cutting wheel. Rollstar units are found in the most prestigious tunnelling projects in the world.

Rollstar also plays a part on the pistes: when thousands of winter sports enthusiasts want to reach the peaks at the same time, their safety hangs on a steel thread. And on a cable winch which not only delivers around 25 tonnes of traction but also needs to function reliably at temperatures of -30 °C. Swiss precision - for example in a cable car system in the Austrian Zillertal fitted with an auxiliary drive from Rollstar.



Hydraulic gear motors from Rollstar are available in different sizes in shiftable while standstill version with 2- or 3 position gear shift. Mounting of gear shift can be selected either on gearbox- or on motor side. Hydraulic and pneumatic shift mechanisms are available.



5-axis machining



Turning



Broaching





Hydraulic gear motors and planetary gears from Rollstar are used as primary drives for the boring heads of large and small tunnel boring machines but also, for example, to drive erectors for installing tunnel linings.



Next to high quality, planetary gears for the cable car industry require the utmost reliability. Assembly dimensions and motor attachments can be adapted to customer requirements.



Broaching tools



Boring and milling



Gear unit assembly



Planetary gear wheel assembly







## ■ You know who you can rely on.

Swiss precision at Rollstar is a combination of years of experience, state-of-the-art design tools and CAD and FE-supported computation. We are constantly expanding and upgrading our innovative machine fleet for ultra-precise part manufacture. We are therefore able to produce and machine all parts in-house. Since we also use only the highest quality components we have total control over our products.

Together with efficient assembly, Rollstar offers an equally superior and speedy repair service: In two or three days we shall have dismantled your Rollstar unit and produced a quote. Standard repairs can be completed in just another two or three working days. If you need help in an emergency: spare parts can be delivered by Rollstar to any international airport within 72 hours.



You are always welcome to visit Rollstar.



The basis of Rollstar - our motivated workforce.



Standard parts are always available.



Our large stock of raw materials allows us to produce and deliver extremely rapidly.



Engineering



Air-conditioned measurement room



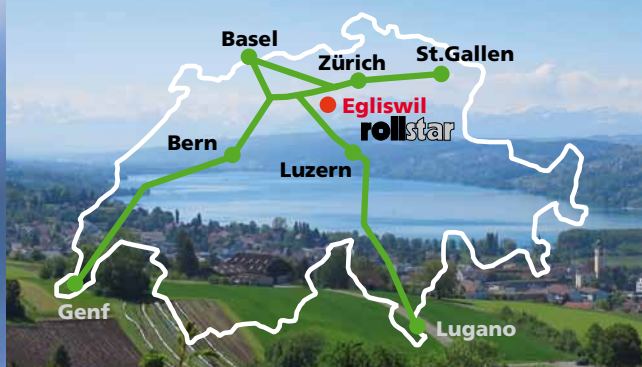


## ■ We always have precision solutions in stock.

Want to realign the planet? We're here for you. Founded in 1966, ROLLSTAR was the first manufacturer to supply both hydraulic motors and planetary gear reducers. The result was the «hydraulic gear motor» which has been identified with Rollstar ever since. We mass-produce our units in large quantities and on a modular basis for a torque range of **1,500 Nm to 6,000,000 Nm**. We also have a large number of design variants for input and output sides, providing a solution to virtually all applications.

Products from our standard range are available from stock at any time. Special requirements can be processed quickly by our engineering office and order completion in due time is guaranteed by our highly motivated workforce.

Rollstar customers throughout the world (our export share is more than 90%!) can depend on speedy service - Rollstar has been ISO 9001-certified since 1993. Constant striving for maximum customer satisfaction is a driving force at Rollstar. Our highly-qualified workforce, our attractive, high quality range and excellent adherence to schedules confirm us as an extremely reliable partner within the industry.



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### Certification

