

WITTENSTEIN S.P.A.

Galaxie® Superior on principle

Ing. Emanuele Radice



cecimo



UCIMU-SISTEMI PER PRODURRE

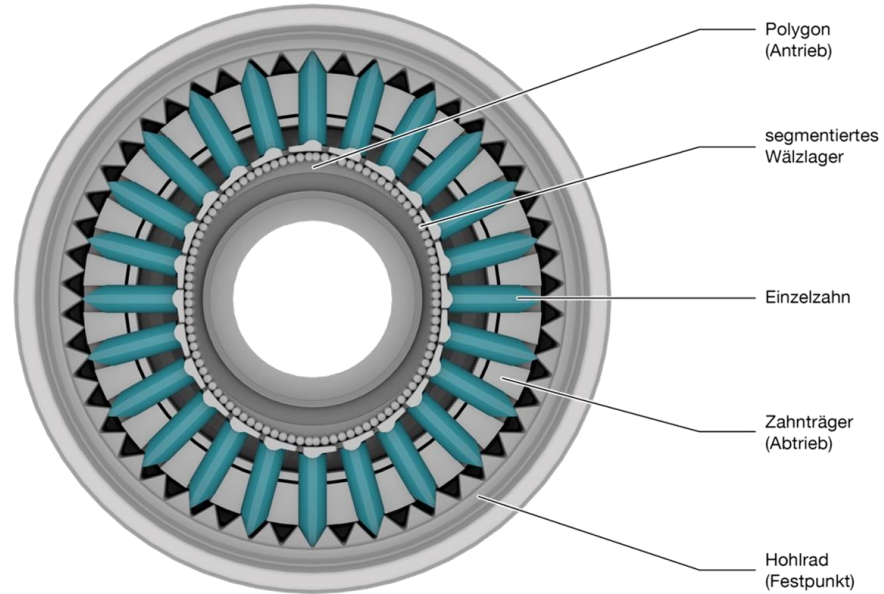


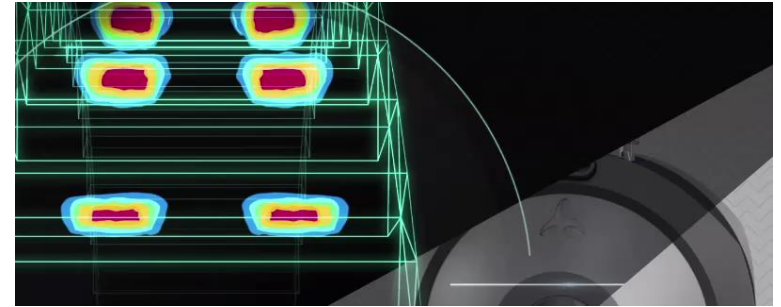
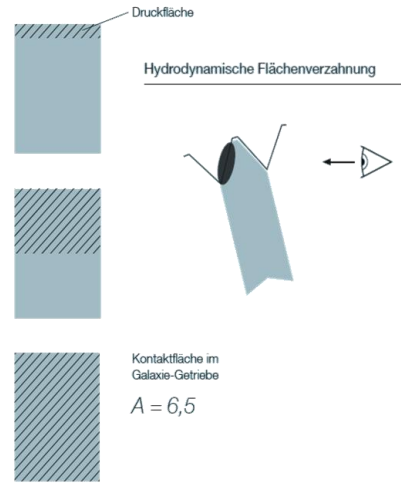
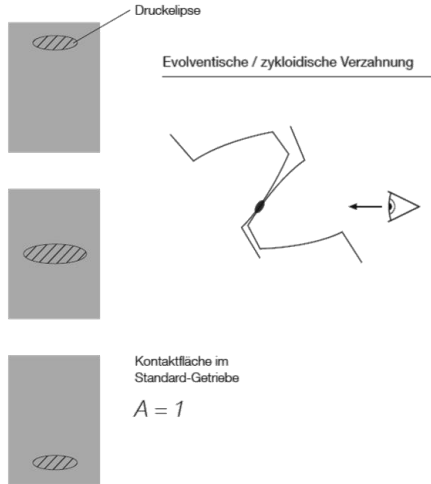
065/2016
LABORATO



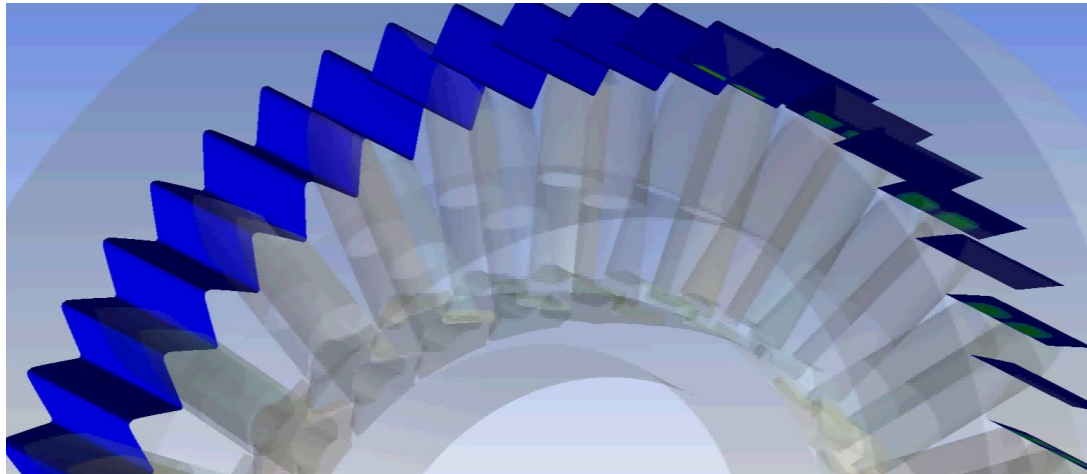
FIERA MILANO



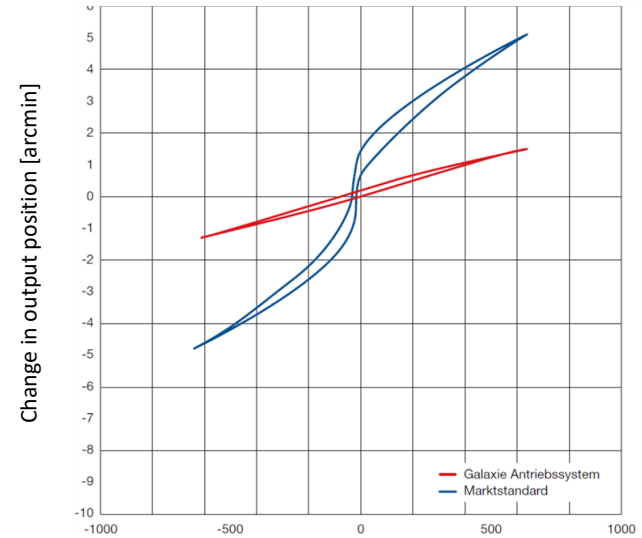
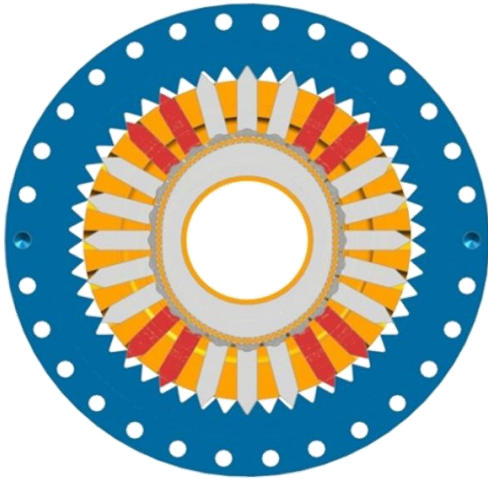




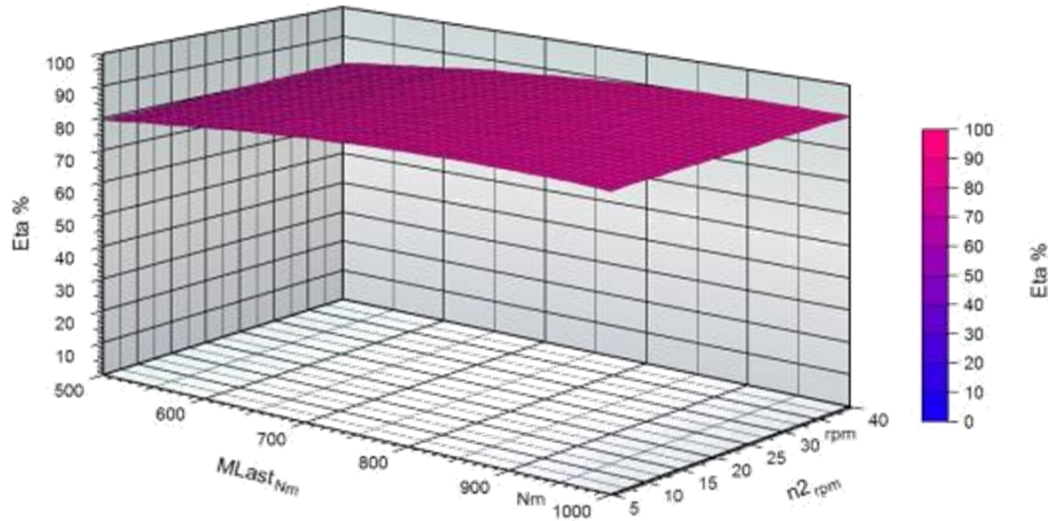
Perfect load distribution due to adaptive round single teeth



High torsional stiffness and Zero backlash for high positioning accuracy

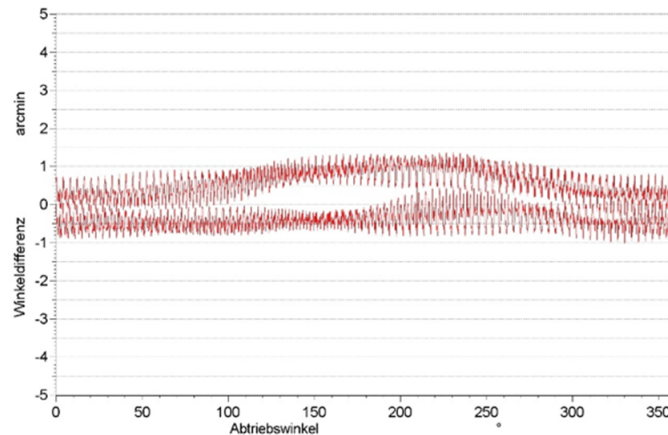
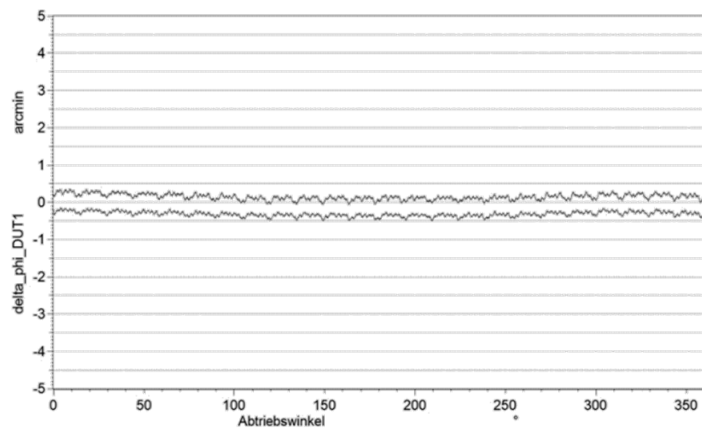


Efficiency up to: 91%



Efficiency Eta of RG135 (one stage) ($n_2 = 5 \dots 40 \frac{1}{min}$; $T_2 = 500 \dots 1000 \text{ Nm}$; Eta in %)

True running of up to 0,4 arcmin



Compatible product on the market



Galaxie® Drive System – Advantages



3-times higher nominal torque*

Up to 250% higher max. torque*

Up to 440% higher overload capacity*

Torsional rigidity up to* +250 bis +870%

Repeating accuracy of 4 arcsec

Zero Backlash

In 4 Versions and 5 sizes.

* Compared to competitive hollow shaft gearboxes of the same size.

Gearbox

Actuator



Galaxie® G



Galaxie® D



Galaxie® GH



Galaxie® DF



Industry 4.0

- Oil temperature
- Acceleration torque
- Positioning accuracy

NEW

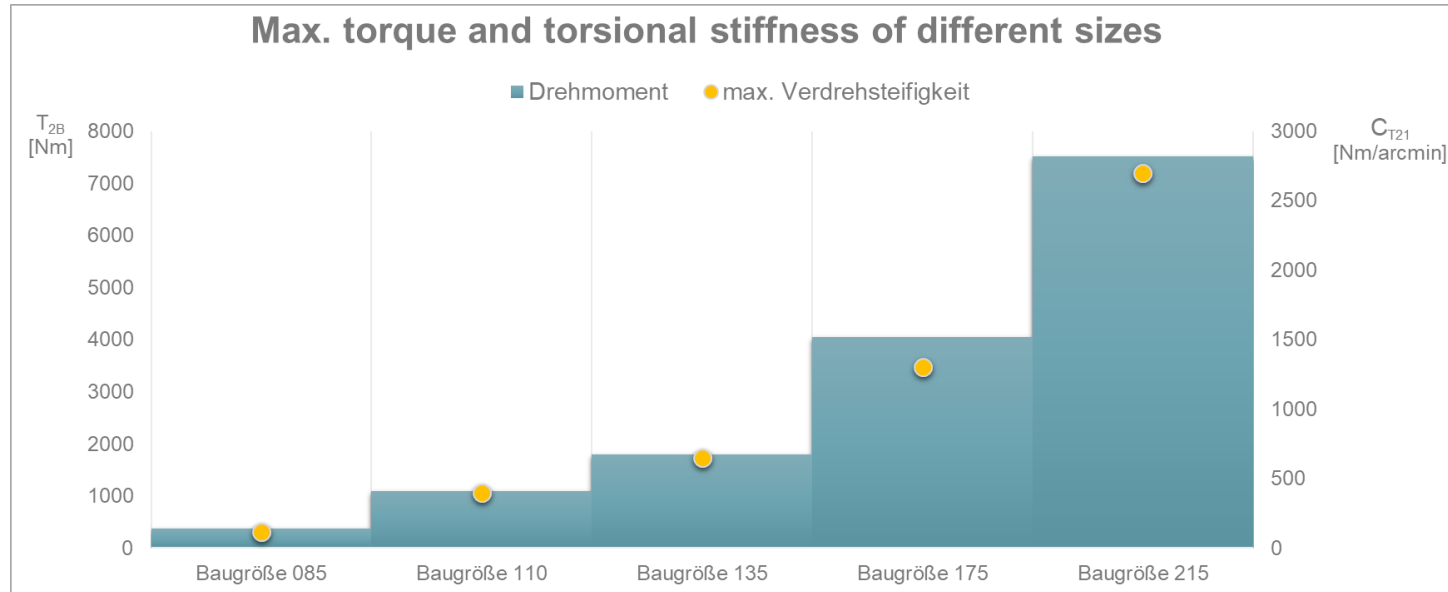


Galaxie® DF

Ultra-flat hollow-shaft compact drive, radially integrated synchronous motor with standard sensor systems (EnDat, Hiperface)

Advantages:

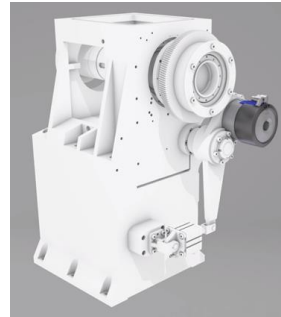
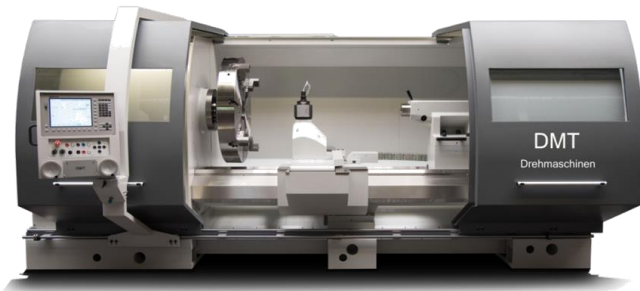
- 30% reduction in length
- Mechanical adaption with flange geometry in B5 or B14
- Hollow shaft for feeding cables and equipment (26 to 54mm)
- Simple connection to standard industrial controllers
- Robust and precise output bearings
- Optional: water cooling and sensor technology



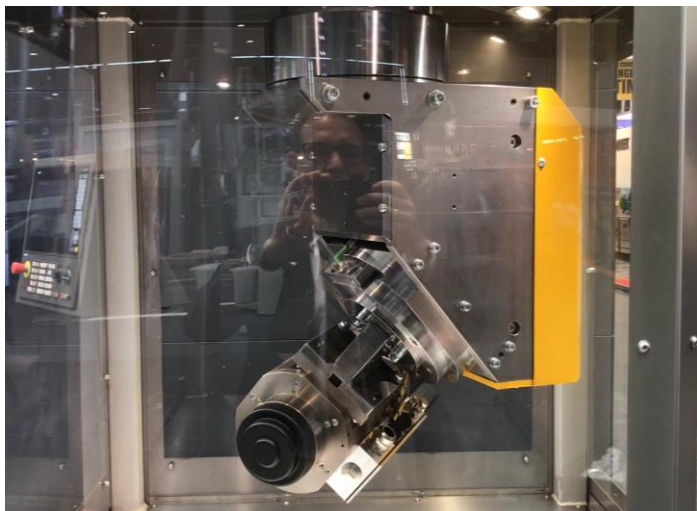
Application: Turning lathes

Advantages and benefits:

- Smooth integration of C-axis
- Flexibility in 2D free-form processing
- Increased quality
- Improved efficiency



Application: High speed milling machine (A and C-axis) for composite materials



Advantages and benefits:

- Improved performance after replacement of less stiff drive system
- New head construction with higher safety and productivity
- Best performance and reliability
- Better surfaces and faster set-up



Germany

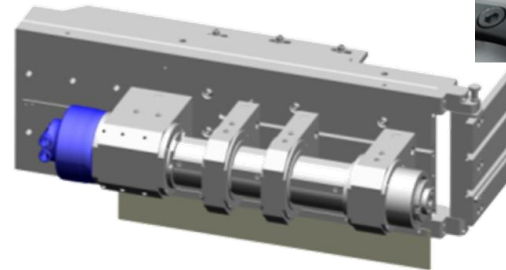
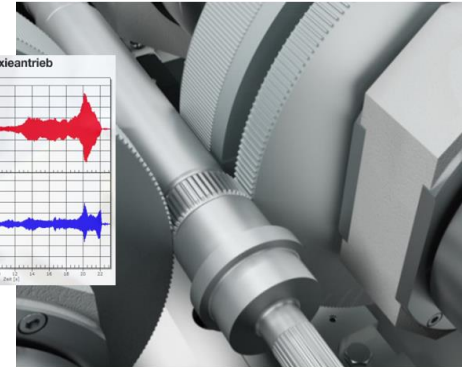
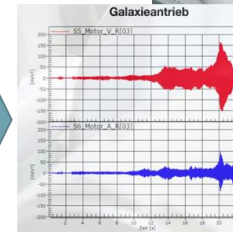
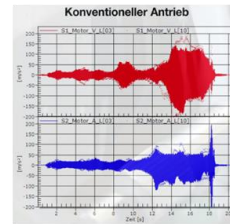
Cold forming machines (Toothing)

[Link to the video](#)

Application: Processing of tothing parts (for automotive industry)

Advantages and benefits:

- Massive reduction of vibrations
- Higher speed in rolling process
- Productivity +40%
- Increased product flexibility





Galaxie® Drive System



GALAXIE®
SUPERIOR ON PRINCIPLE



Download the white paper now!

WITTENSTEIN – one with the future
www.wittenstein.de