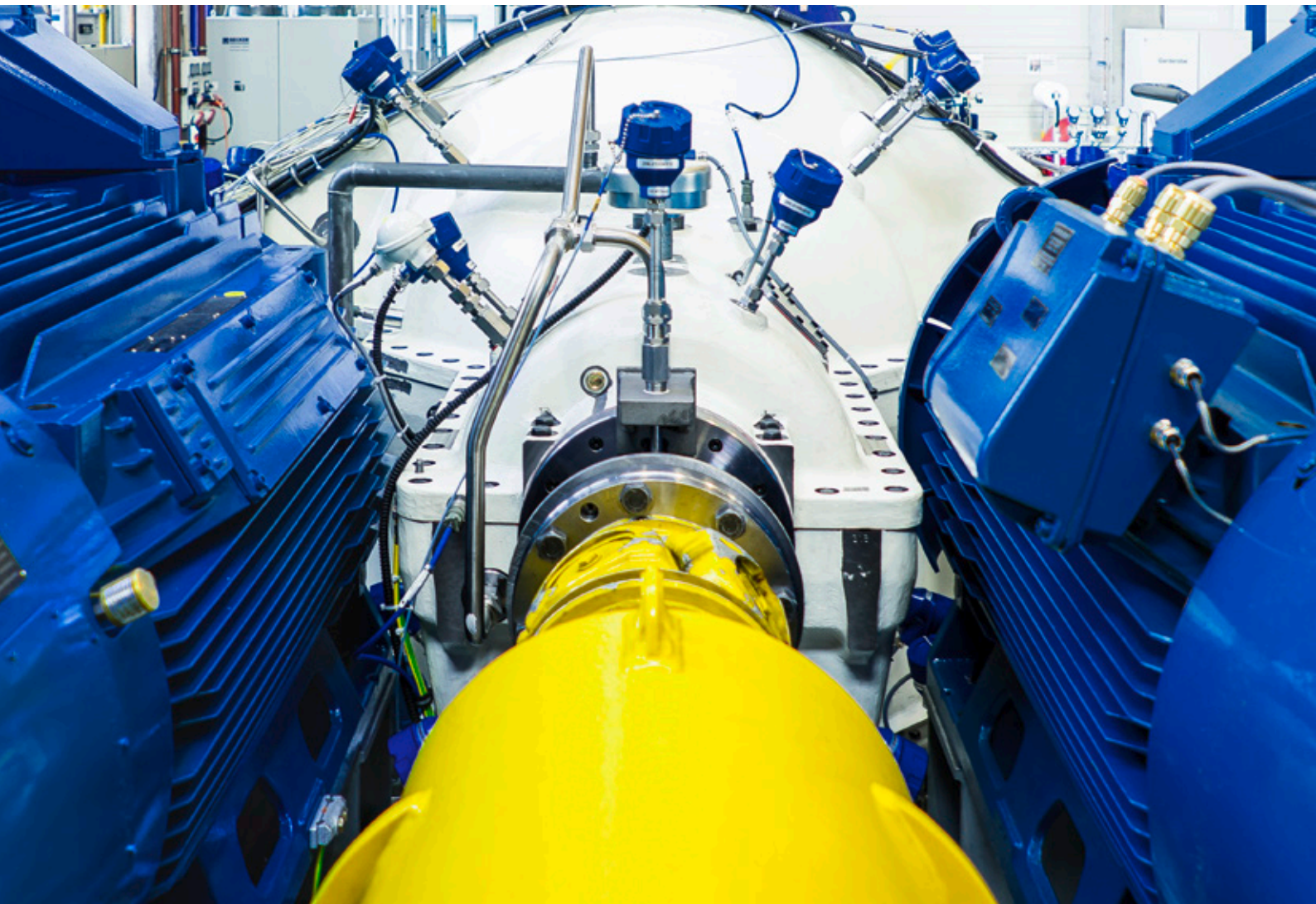


Speed control takes a new turn towards the future VECO-Drive







Every invention, every future trend begins with a movement. Moving away from the established. Turning to new possibilities and challenges.



**“We are taking speed control
to a whole new level.”**

Bernd Lauter, Head of Electric Drives and Controls

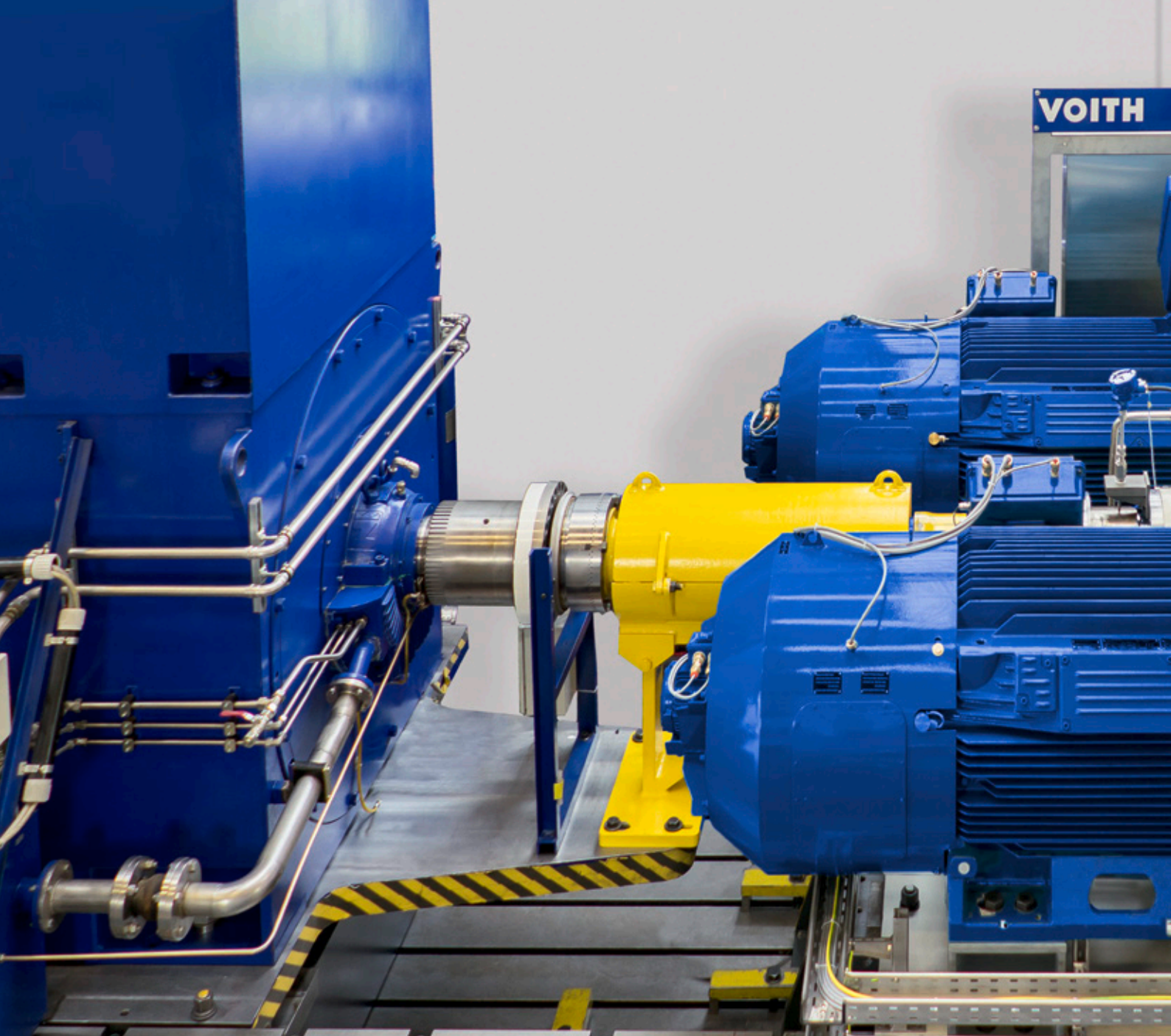


For 150 years Voith has been fascinated by movement and turns. We are driven by speed and speed control. We are relentlessly probing. Challenging the status quo.

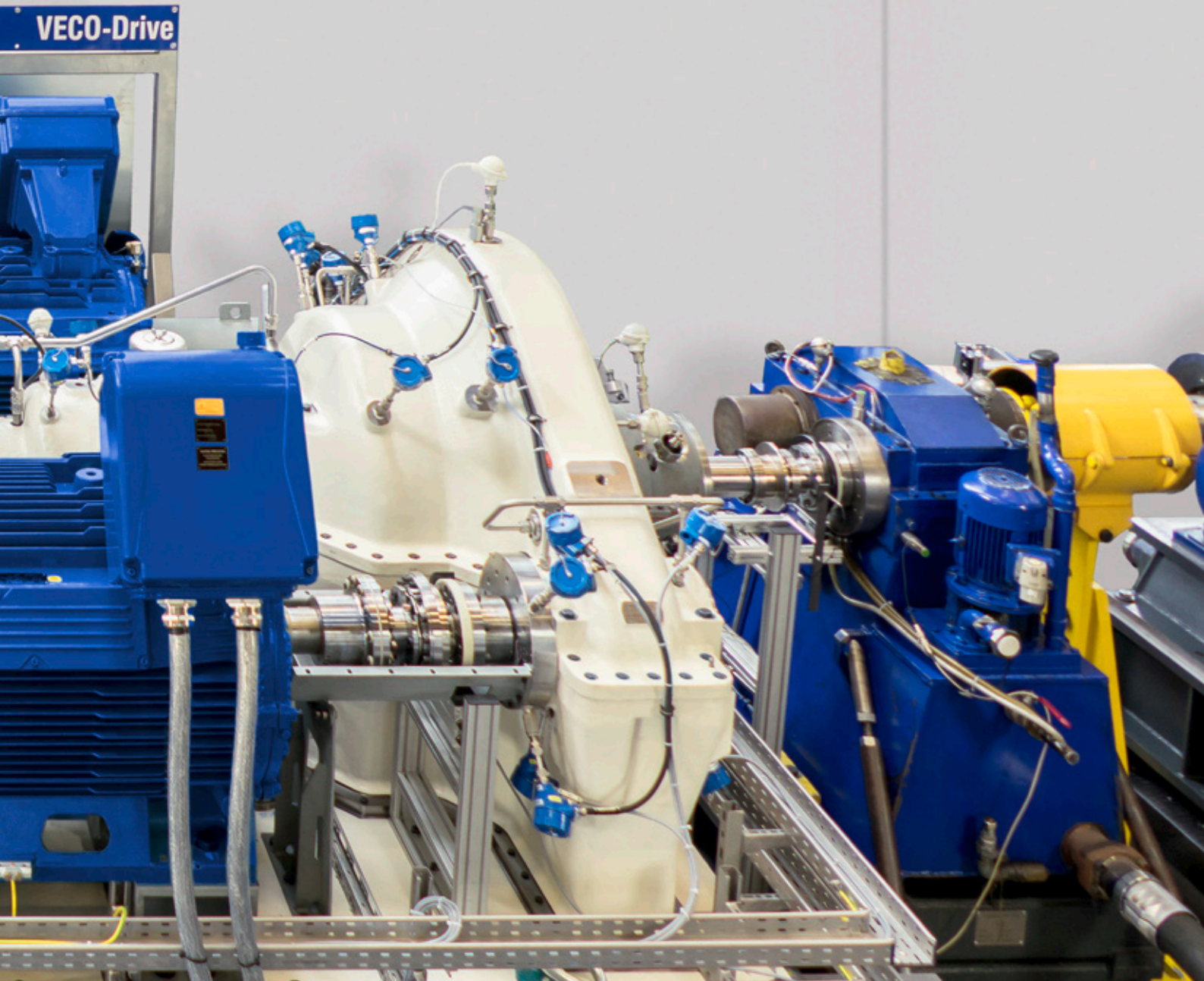




For many decades we have worked closely with the oil & gas and power generation industries worldwide. And we have never hesitated to explore new directions.



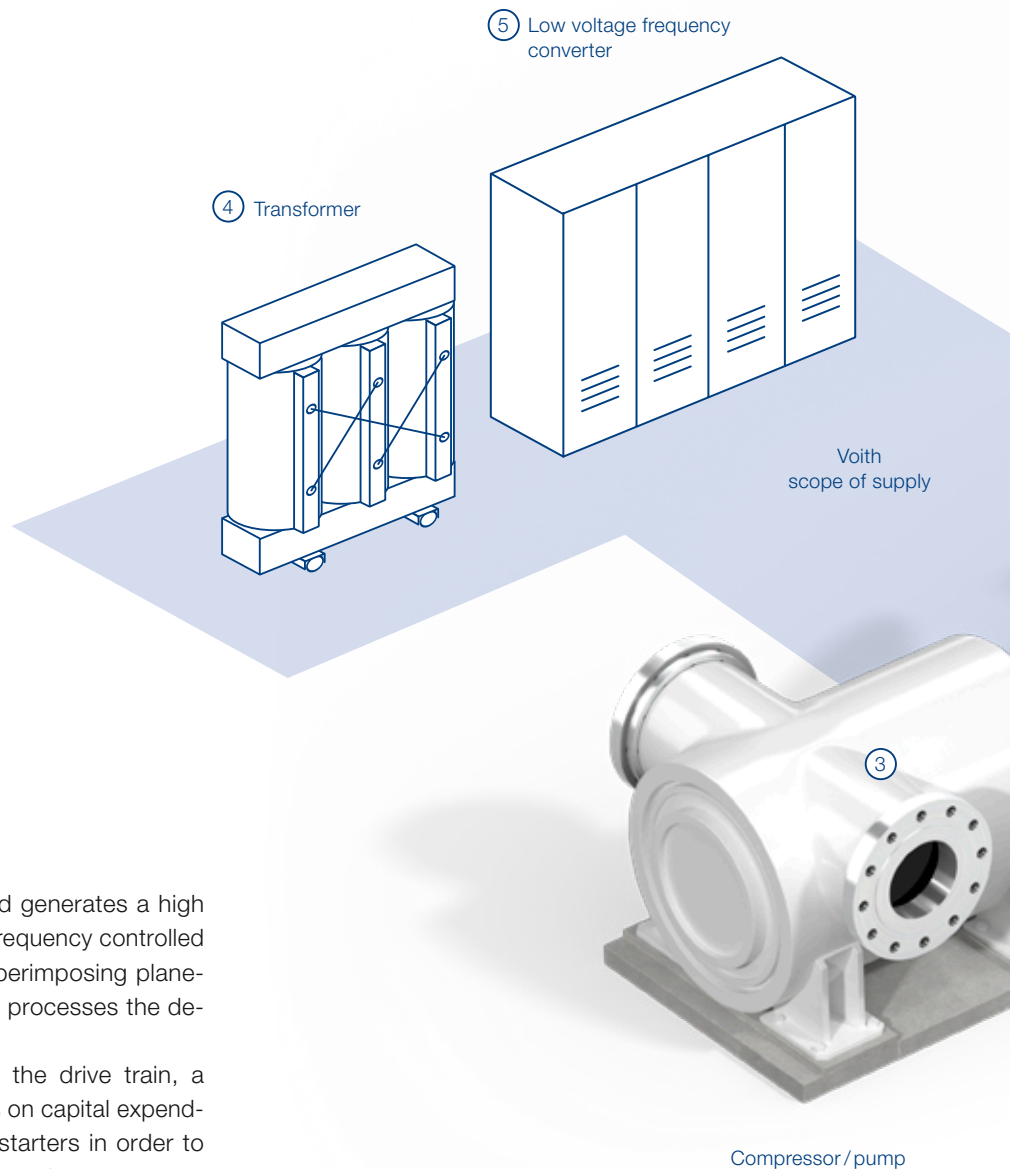
Get the
Drive.



Now we are introducing a new solution for speed control – The VECO-Drive.

Control your compressors and pumps more efficiently than ever

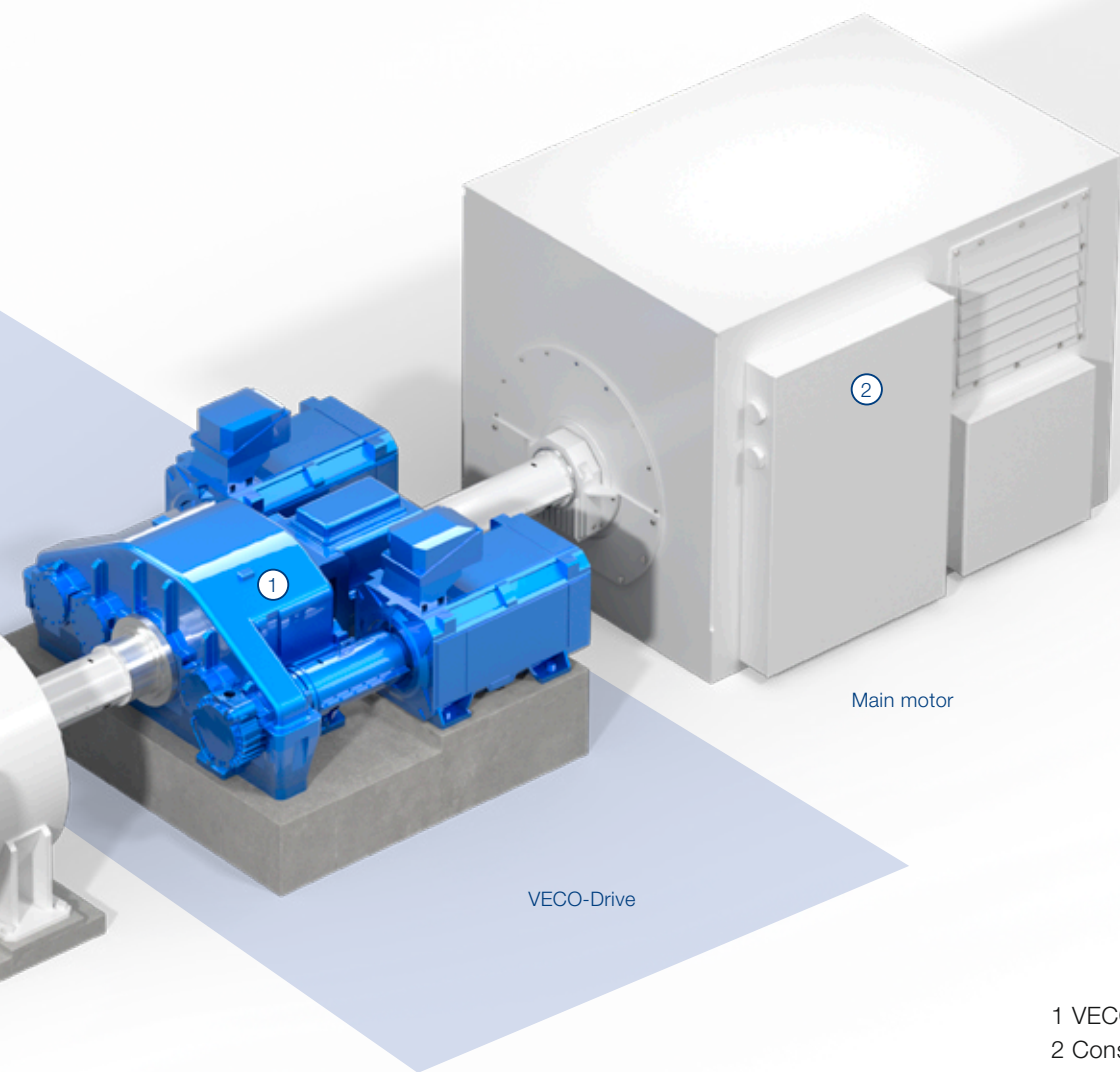
Design of variable speed drive train



This is how it looks

The VECO-Drive steps-up input speed and generates a high output speed for compressors or pumps. Frequency controlled servo motors are used together with a superimposing planetary gear to adjust the output speed which processes the demand.

Because additional power is supplied to the drive train, a smaller main motor can be used. This saves on capital expenditures. The servo motors can be used as starters in order to protect the electric grid from high inrush currents.



Main motor

VECO-Drive

- 1 VECO-Drive
- 2 Constant speed motor
- 3 Compressor / pump
- 4 Transformer
- 5 Low voltage frequency converter

Closing the gap – Our first electrical superimposing gear

This is how it works

The new VECO-Drive is an innovative solution combining a mechanical planetary gear with frequency controlled servo motors. This opens up completely new possibilities for overall system optimization.

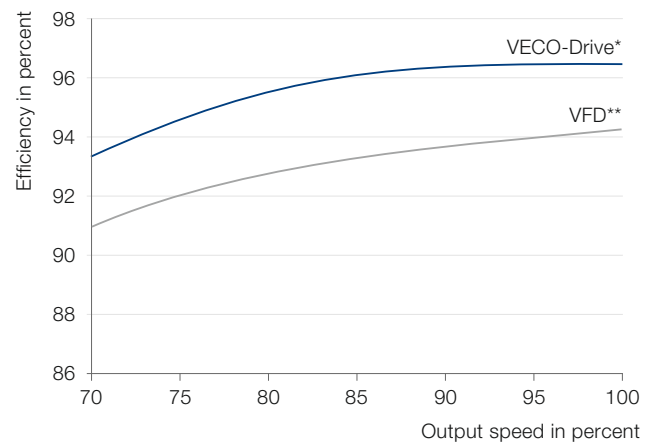
The electrical superimposing gear is the most efficient way to make speed variable. Servo motors are used to drive the planetary gear. Since only a small amount of rated power is needed, an overall component efficiency of greater than 97 percent is reached, saving valuable energy and reducing operating expenditures.

Technical data

Output power	4 – 15 MW
Output speed	5,000 – 15,000 rpm
Component efficiency	up to 97 %

Overall component efficiency – parabolic load torque

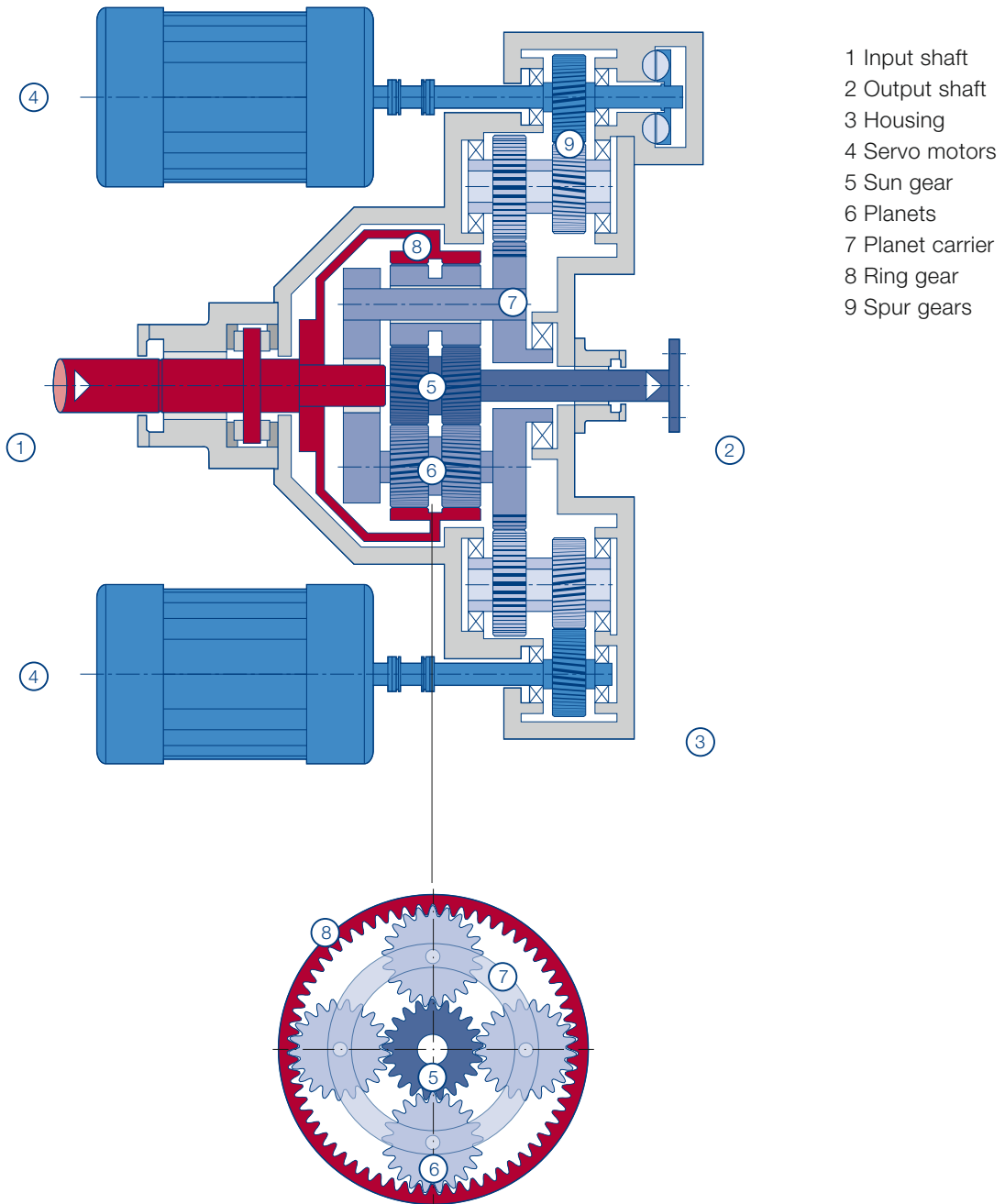
Comparisons of VECO-Drive* and full scale in-line VFD**



* including transformer, low voltage VFD, lube oil pump and forced cooling

** including transformer, step-up gear and lube oil pump

Sectional drawing



Our VECO-Drive – your benefits

Reliability backed by over

34,000

successful variable speed installations.

Output power

4–15 MW.

97%

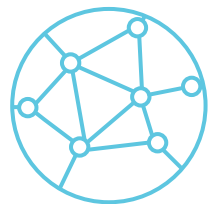
peak
efficiency.



output speed.

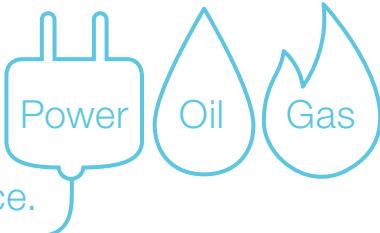
Service network
in over

60

 countries.

60

years
experience.



2,000

happy
customers.



**“Raise efficiency to over
97 percent – control your
compressors and pumps
more efficiently than ever.”**

Dr. Martin Tilscher,
Product Manager
Geared Variable Speed Drives



Voith Group
St. Poeltener Str. 43
89522 Heidenheim, Germany

Contact:
Phone +49 7951 32-261
vs.drives@voith.com
www.voith.com/vecodrive



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for Generations