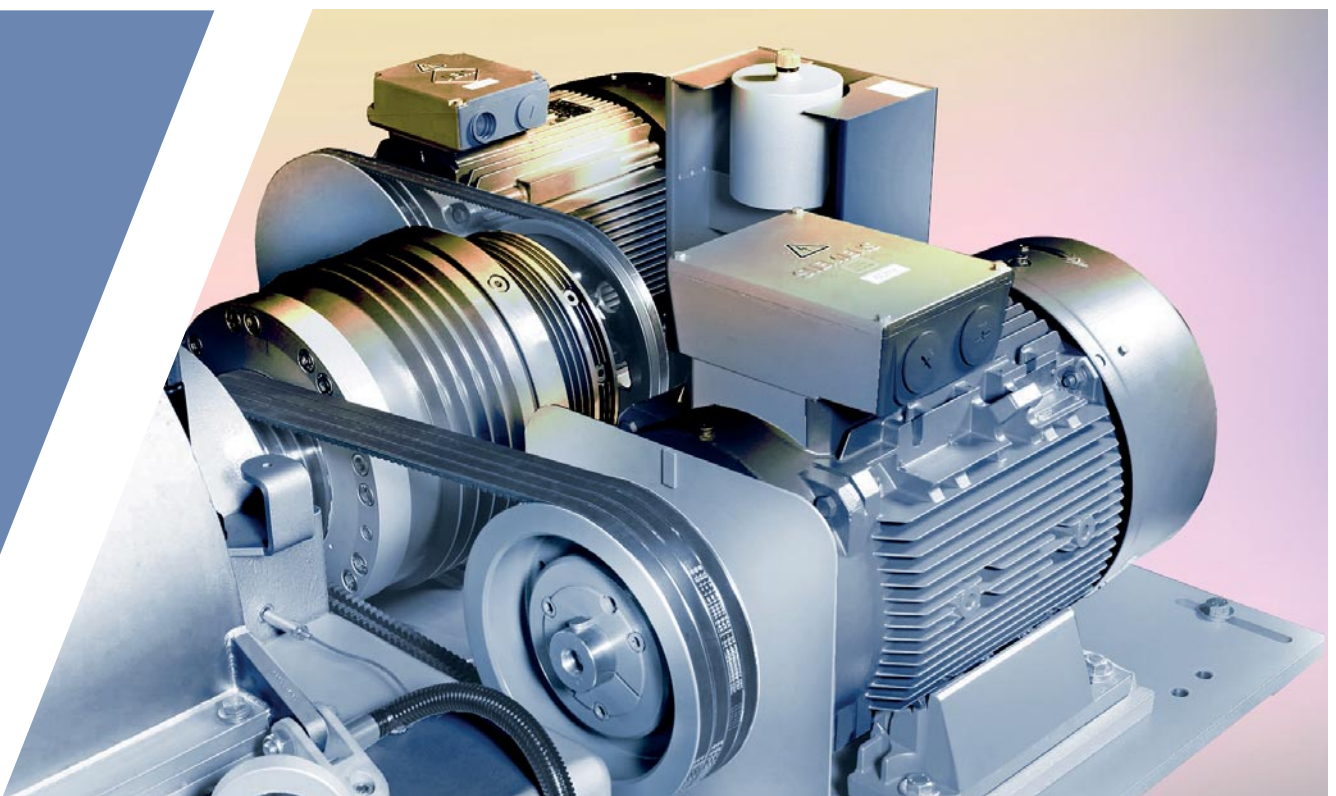


20 YEARS OF FLOTTWEG SIMP DRIVE®
A Drive – a Benchmark – many Advantages



THE FLOTTWEG SIMP DRIVE®

20 Years of Experience, 20 Years of Efficiency at the Top

SIMPLE
INTELLIGENT
MODULAR
POWERFUL

Flottweg developed the Simp Drive® in 1994. This wealth of experience, combined with our commitment to quality and value, makes our decanter drive a benchmark that has never been equaled.

www.flottweg.com

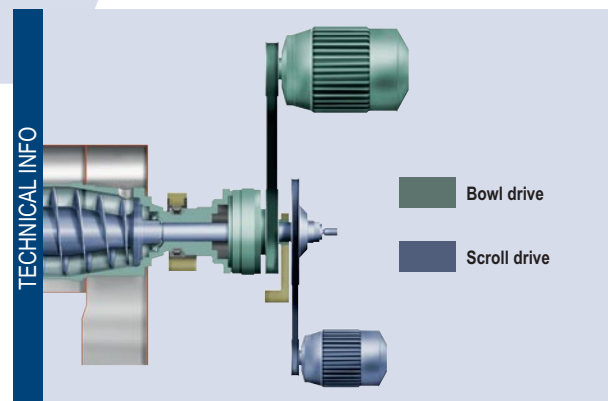
WHAT IS THE SIMP DRIVE® REALLY USED FOR?

The Simp Drive® regulates the differential speed between the decanter bowl and scroll depending on the prevailing scroll torque. The differential speed determines the length of time the solid remains in the bowl, and thus has a significant influence on the separation process. The bowl speed and differential speed can be adjusted independently of one another during ongoing operation. This is guaranteed by the special transmission mechanism of the Simp Drive® (special planetary epicyclic gear unit).

HOW THE SIMP DRIVE® WORKS

The gear unit input shaft is driven by a variable speed motor, meaning that the rotation speed can be adjusted optimally. Another motor (which is frequency-controlled) drives the decanter bowl, making it possible to overcome the mass moment of inertia without difficulty and regulating the bowl speed according to requirements.

Changes in the product feed have an effect on the scroll torque, because the scroll has to transport different quantities of solid and different loadings thus arise. This means it is necessary to adjust the differential speed continuously, because only in this way is it possible to achieve a consistently high quality in the output solid.



Flottweg Simp Drive®: torque-dependent differential speed control



ADVANTAGES OF THE FLOTTWEG SIMP DRIVE®

Your Benefits from Our Know-How

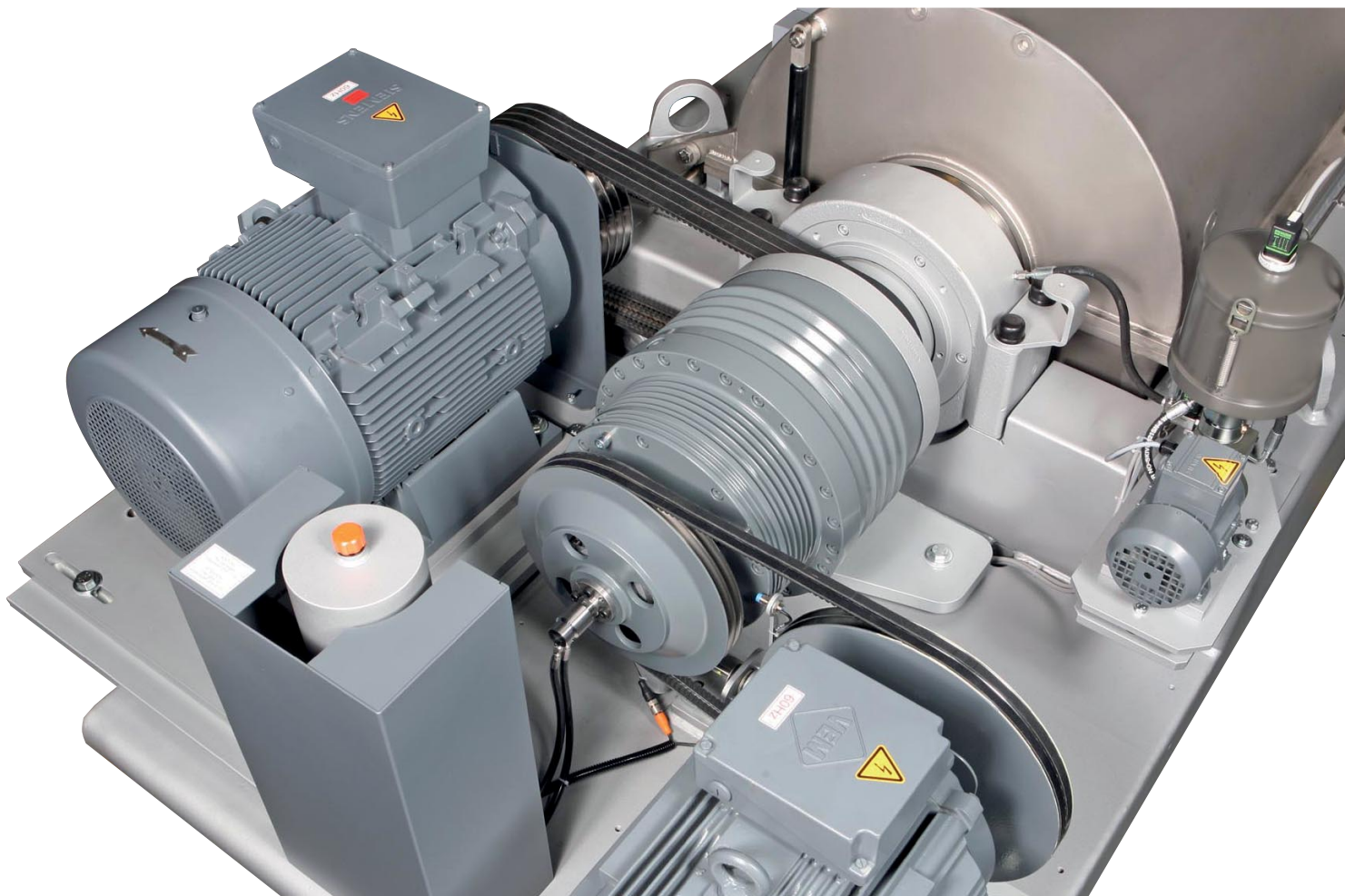


SUMMARY

The Flottweg Simp Drive® is a cost-effective drive for decanters, with a very wide spectrum of applications for demanding separation tasks in which ongoing adaptation of operating parameters is essential.

The Flottweg Simp Drive®: Overview of the Advantages and Customer Benefits

- High throughput performance due to high bowl speed and precisely adjusted differential speed
- Simple display and regulation of the scroll torque including overload protection
- The scroll speed and differential speed can be controlled easily, because they are independent from one another
- High efficiency due to consistently high dry substance value (DS = the higher this value, the dryer the separated solid)
- The Simp Drive® for a broad range of applications in which continuous adaptation of operating parameters is required
- High flexibility in selection of the operating speed
- Machine can be cleared out even at a standstill, because it is still possible to turn the scroll (no need to dismantle system components)
- The belt drive used guarantees low maintenance costs (easy and quick to replace, lubrication not required), better damping than with gears, for example; low weight and the ability to run at higher speeds



Flottweg Separation Technology – Engineered For Your Success



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