



Drive Technology – Motor Specifications Driven by Innovation

With customized drive concepts Westfalia Separator Engineering provides for economical solutions with a future.

Based on state-of-the-art concepts, we develop durable systems that bring forward our customers with innovative strength.

Whether for separators, decanters, centrifugal mixers, CIP or pump drives – the many years of experience coupled with the large pool of know-how of our drive specialists ensure that you always get a drive system that is optimally tailored to your needs. Our experience becomes your advantage: simply benefit directly from our experience in a wide range of worldwide applications, for individual systems right up to combined drive variants in large-scale projects.

Every one of our solutions takes into consideration the required performance spectrum as well as the different conditions in which the drive is used. We offer you modern, advanced technology for your benefit.

Your competitive edge: our technology

Besides the classic direct and star-delta start-up, the frequency converter is gaining in significance – not only for the main drives of the



With know-how and experience to visionary concepts: Separator RSE 300 with direct drive for processing vegetable or animal oils and fats.

centrifuges but also for optimum regulation of auxiliary drives.

In the case of controlled torque motors too, frequency converters are squeezing the tried-and-tested pole-changing motors out of the market. This not only makes possible the use of significantly cheaper modified standard motors; it also has decisive advantages in operation: the free speed setting by means of a FC, for example, creates a further degree of freedom for the machine and thus forms the basis for the latest drive concept – the direct drive.

Our specialists solve all issues associated with machine safety here too – always in direct cooperation with the design departments.

Rely on our proven technological know-how.



Drive Technology – Frequency Converters The Right Approach

While the frequency converter is the optimum variant for your drive solution, we also provide in the next step for optimally adjusted performance: with complete customer- and application-specific parameterisation.

A centrifuge makes high demands on your drive: during start-up, enormous masses are accelerated to maximum speed fast and with optimum efficiency. In the case of the decanter, very high demands relating to the residual moisture of the solids are to be adhered to even with changing solids volumes and difficult solids conveyance conditions. In addition, a shortening of the run-down time of a centrifuge can only be achieved by controlled regenerative braking.

In all these cases, motor controls with optimally adjusted frequency converters give you a decisive competitive edge – whether it be the patented 2-gear drive, the bowl speed adjustment or the direct drive.



Speed adjustment on bowl and scroll.

Under our control

When parameterising the frequency converters, the extensive experience of our specialists is particularly fruitful. The obligatory systematic documentation and archiving of the parameter lists

forms the basis for competent technical support.

The knowledge of national and international standards and regulations goes without saying for Westfalia Separator Engineering; a further speciality is the conceptual design of electrical drive technology for explosion-hazarded areas.

Your contact:

Michael Hückebrink
Tel. +49 2522 77-2985
Fax +49 2522 77-3-2985
huckebrink.michael@gea-westfalia.de