

DECANTER CENTRIFUGES & PLANTS FOR SOLID/LIQUID SEPARATION



HILLER compact unit DecaPac A complete solution from one provider

High processing quality and operational reliability.

HILLER compact units for dewatering are installed on a platform ready for connection and operation.

The latest HILLER compact unit, the DecaPac, can be put to work on your separation task straight away. The key advantages include rapid availability, simple plug and play integration into ongoing operations, as well as the very attractive price point and low operational costs.

The skid mounted units are pre-wired and fully factory tested.

All peripheral equipment is optimized as a complete dewatering system and controlled through an integrated system PLC and operator interface.

Fully automatic and optimized centrifuge control is ensured by our centrifuge control unit SEE-Control pro, also integrated with the system PLC. HILLER compact units are a high-performance, economical and technically high-quality solution for your separation task.

HILLER plants have long stood for high operational safety and long maintenance and service intervals.

All components and instrumentation are obtained exclusively from reputable companies with a focus on a long lifetime and maximum operational safety.

Exhibit B - Hiller Equipment Data

ADVANTAGES:

no planning costs
one contact person
defined, standardised interfaces
easy plug and play integration into the process
low procurement costs
small space requirement
rapid availability and operational readiness
fast maintenance and spare parts supply
simple handling
mobile applicable

ENGINEERING OFFICE / MAIN CONTRACTOR

✓
✓
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✓
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OPERATING COMPANY

✓
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STANDARD FEATURES:

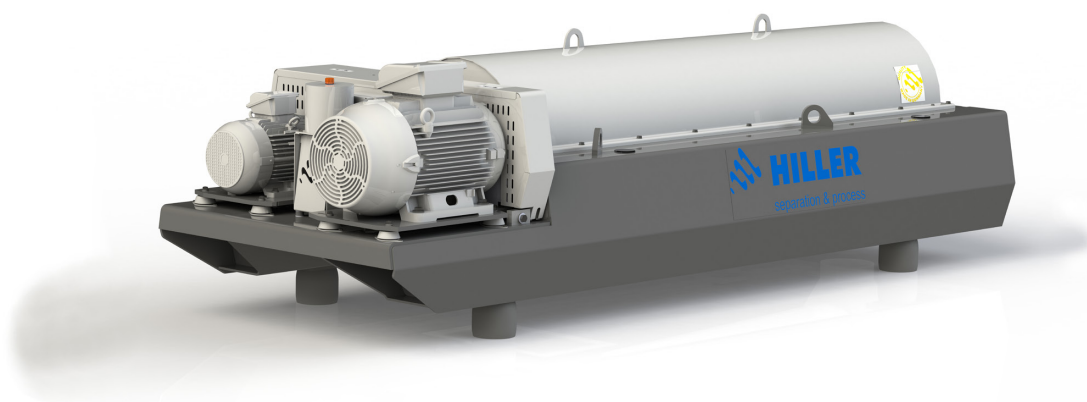
- NEMA 4x Control Enclosure per UL
- Netzsch progressive cavity feed pump
- Rosemount Magmeter for feed flow
- Batch type polymer preparation and delivery system
- Shaftless discharge conveyor
- Centrate and Solids sampling

OPTIONAL FEATURES:

- Centrate buffer tank with discharge pump
- Access platform
- Trailer mounted



DECANTER CENTRIFUGES & PLANTS FOR SOLID/LIQUID SEPARATION



DECANTER VS. SCREW PRESS A COMPETITION WITH A CLEAR WINNER

Dry substance content in the sludge: Improvement of +5% DS (absolute) with a solids capture efficiency of $\geq 99\%$ are repeatedly achieved and proven with HILLER high performance decanter centrifuges.

Many operators of municipal wastewater treatment plants are faced with unnecessarily high sewage sludge disposal costs due to the dewatering technology applied. However, the dewatering result can almost always be optimized and the disposal costs thus be reduced. A large number of tests with our mobile plants show a considerable savings potential

through the use of decanters in comparison with competitor technologies.

These practical experiences from the direct comparison tests show clear advantages for the centrifuge technology not only in the area of throughput and dewatering performance but also in the separation result of the liquid phase.

Separation efficiencies of only 90 to 95% lead to correspondingly high back-loading values for the wastewater treatment plant, which have the effect of a continuous accumulation of fine particles in the wastewater treatment plant system.

For this reason, operators decide in favour of modern decanter technology after a well-founded technology comparison on their own plant. A comparison that we can recommend and offer before making such a long-term decision.

With very manageable effort, you can quickly see the amount of operating cost savings that can be achieved, and a high degree of separation also provides procedural advantages for your entire wastewater treatment.

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HILLER DecaPress - EFFICIENT & RELIABLE

Since its invention the solid bowl centrifuge has proved itself to be an efficient and reliable technology in many market sectors of the solid-liquid separation. Rapidly rising costs for waste disposal are dominating the decision making processes, requiring an accurate economic assessment of the costs of achieving the best possible dewatering degree.

A typical example is the separation of solids from sludge in municipal and industrial wastewater plants. In these, the amount

of residual moisture in the solids decides the disposal costs and these constitute a major part of the total operation costs of a wastewater treatment plant. This requirement, **highest achievable mechanical dewatering and highest separation efficiency in the centrate** is the HILLER credo regarding the continuing development of the HILLER DecaPress range.

Practical performance comparisons with our competitors confirm our focus.

The HILLER DecaPress proves its outstanding performance in a practical way through its simple operation, stability, and the best quality of solid-liquid separation.

The HILLER DecaPress is therefore an example of the highest technical capability and operational stability, without compromise even under dynamic operating conditions.

IMPLEMENTATION OF CUSTOMER REQUIREMENTS

A high technical level has been reached through many innovations and improvements. Therefore HILLER uses a group of professionals whose opinion is the most important:

our customers.

In this regard HILLER assesses all inputs from customers, independent of whether in direct dialogue or in the form of a service report from the HILLER technicians. All this data is brought together starting from the market launch of the first DecaPress, and the information has been used for the ongoing further development. That's why the HILLER DecaPress is pure practice! It offers decanter construction at the highest level and is aimed **at those who want more:**

- **highest degree of dewatering**
highly available torque creates the basis for the highest degree of dewatering
- **highest operation stability**
our flat cone design as basis for the highest operational stability with various feed pumps
- highest demands on after sales activities
 personally appointed service technicians with many years of practical experience ensure your continued satisfaction
- more overall responsibility
 As a manufacturer of turnkey complete systems we are a reliable and competent partner for your complete dewatering system

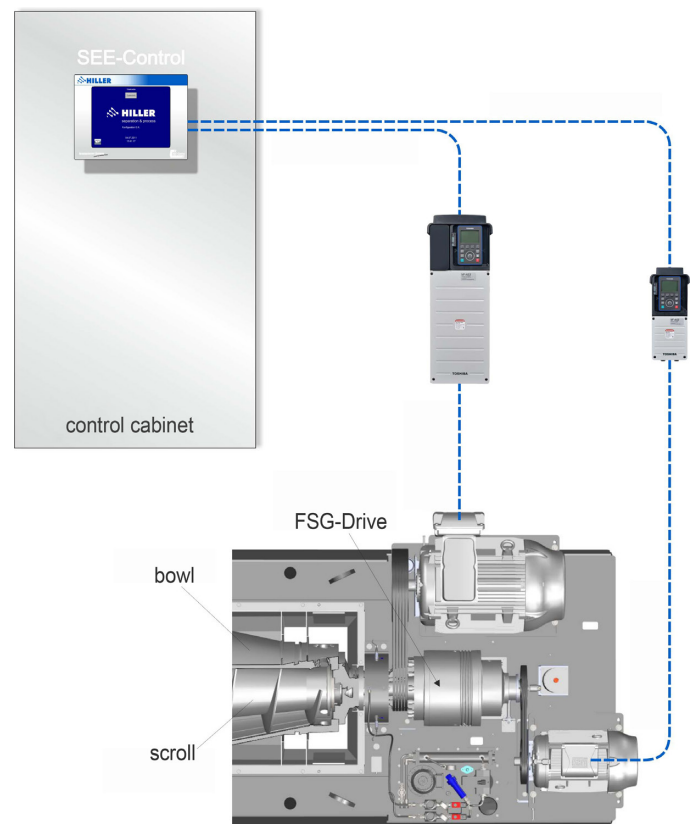


DRIVE SYSTEM FSG DRIVE

The function of our screw drive by means of the HILLER FSG-Drive is based on a high bowl speed with independently regulated differential speed.

The rotational speed of the screw will only affect the drive shaft of the selected gear.

- independent, automatic adjustment of the differential speed
- simple change of the screw rotating direction
- excellent synchronism properties at highest torques and low differential speed
- usage in ex area possible by using ex protected motors
- real analogue control i.e. actual value/ set point comparison via SEE-Control pro which ensures a very stable, sensitive control even for extreme application cases
- visualisation of all process data and their temporal history by the SEE-Control pro



HILLER SEE-CONTROL PRO

The new HILLER DecaPress is controlled by the HILLER SEE-Control pro. This control device has been developed by HILLER and is characterised by the following attributes:

- highest quality, manufactured in Switzerland according to HILLER specifications
- ultra fast colour touch panel, extremely colour- and contrast-intensive
- automatic adjustable torque dependent control of the differential speed
- analysing and controlling all peripheral instruments and equipment on the decanter, e.g. bearing temperature measurement and lubricant pump
- communication via potential-free signals or Profibus DP



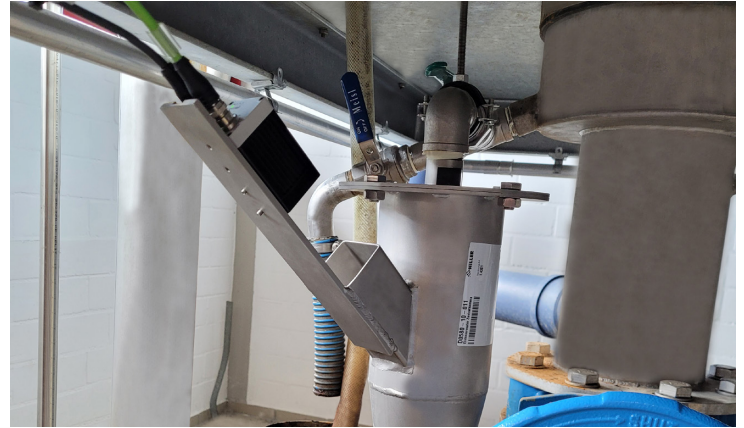
The HILLER DecaPress, FSG-Drive and SEE-Control pro define the benchmark for efficiency, reliability, and ease of maintenance related to decanter construction.

Together with our customers, we are happy to develop a tailor-made complete solution, whether as a stationary installation, in a container or mobile.

We would be pleased to provide the proof of performance.

HILLER CENTRATE MONITORING

In order to continually control the centrate quality to maintain a constant level of filtration efficiency, HILLER offers a new procedure to optically monitor the centrate. This ensures that our customers achieve optimal processing safety.



ADVANTAGES:

- continual and fully automatic monitoring
- constantly high separation efficiency
- additional inclusion in standard HILLER decanter
- quick and simple installation
- intervention in the event of poor centrate quality
- controlled shutdown in case of continuously poor centrate



DECANTER CENTRIFUGES & PLANTS FOR SOLID/LIQUID SEPARATION



DRINKING & SEWAGE WATER TREATMENT, SLUDGE THICKENING WITH HILLER DECANTER TECHNOLOGY

CLEAN WATER FOR INDUSTRY AND LOCAL AUTHORITY DISTRICTS

Responsible use of the precious resource water is one of today's biggest challenges. Industry and local authority districts are confronted with high requirements with regards to sustainable use of drinking water.

To ensure that these requirements can be met sensibly and economically, HILLER has been developing and manufacturing decanter centrifuges and complete systems for solid-liquid separation which are

used in the field of industrial and municipal environmental technology for many decades.

The HILLER DecaPress decanter is used, among other things, for industrial water treatment, the dewatering or thickening of sewage sludge, the treatment of drinking water and the development of renewable energy sources.

BENEFITS

- highest dry substance content in the discharge
- low power consumption by energy-efficient design
- reduced disposal costs due to excellent separation results
- high degree of automation and simple operation
- efficient wear protection technologies

Exhibit B - Hiller Equipment Data

ENVIRONMENTAL PROTECTION & ECONOMIC EFFICIENCY

Due to the enormous savings in operating and disposal costs, the HILLER decanter pays for itself after only a short time.

In addition to protecting the environment, the HILLER DecaPress makes a significant contribution to the economic efficiency of the overall process thanks to the low use of polymers, low energy and water consumption, and the high solids content in the discharge. In addition, the long service life and short downtimes of the HILLER decanters ensure high cost efficiency.

HILLER provides you with complete solutions with all plant components from a single source - also as turnkey compact or container plants.



HILLER SLUDGE DEWATERING - FOR HIGHEST DRY SUBSTANCE CONTENTS

In sludge dewatering, the HILLER DecaPress stands out among the entire competitive field in that it is particularly easy to set up and runs very robustly and stably in everyday operation, especially under unstable/fluctuating feed conditions. And all this with high throughputs and significantly reduced consumption of energy and flocculants.

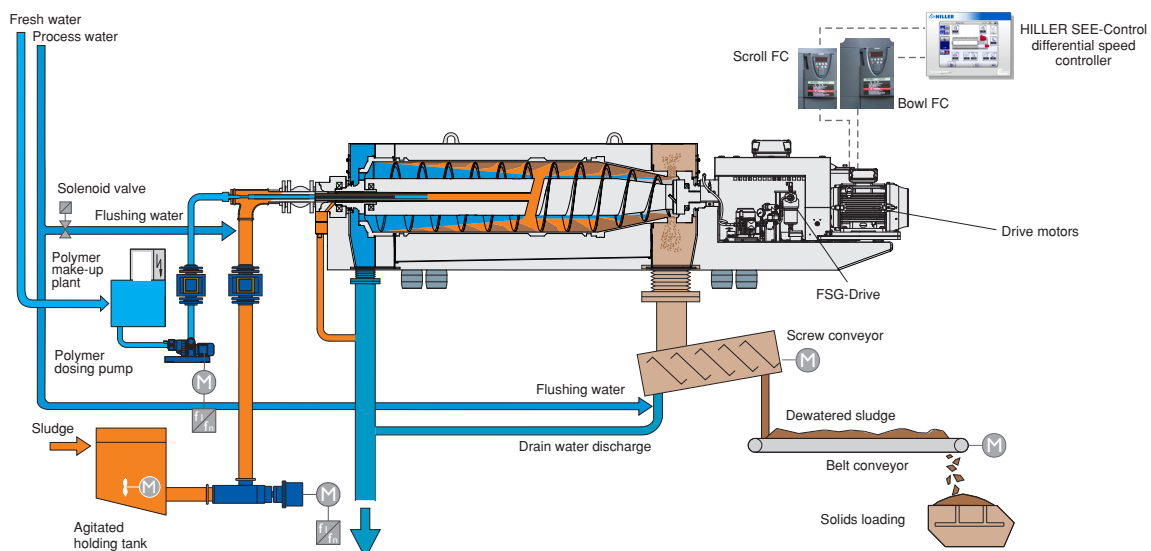
In the discharge, HILLER decanters achieve the highest dry substance contents, which in turn leads to reduced disposal costs.

HILLER SLUDGE THICKENING - MOSTLY POSSIBLE WITHOUT FLOCCULANTS

In sludge thickening, the surplus sludge produced is concentrated to a predefined dry matter content. This step reduces the sludge volume by up to 90%. The decanter technology used for thickening was specially designed for this task. In most cases, the HILLER decanter gets by with no or only very small amounts of flocculation aids during thickening.

Here, too, further cost advantages result from the high degree of automation and the high energy efficiency of the HILLER decanters.

SCHEMATIC DIAGRAM WITH A HILLER DECAPRESS FOR DEWATERING OF SEWAGE SLUDGE



technology for precise separation processes across industries and individually.
Exhibit B - Hiller Equipment Data

Pursue Decanter centrifuges Applications Engineering Rental facilities & trial service Let's talk →



DecaPress

Our decanter centrifuges process solid-liquid mixtures reliably, robustly and application-specifically – e.g. in water treatment, food technology or mining.

→ [Learn more](#)

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