



# Separation technology - **connecting people.**

DECANTER CENTRIFUGES & SYSTEMS  
FOR SOLID-LIQUID SEPARATION

**50+**

years of experience in the development and manufacture of centrifuges

**7.000+**

centrifuges delivered worldwide and proven in practical use

**30+**

countries where our systems are operating successfully

**200+**

employees with technical know-how and specialist expertise

**HILLER develops, manufactures and integrates decanter solutions – from control systems to system engineering. Made in Germany.**

## What HILLER stands for.

For over five decades, HILLER has stood for technically sophisticated solutions that make processes safer, more efficient and more sustainable. As a medium-size company based in Vilsbiburg, Germany, we combine engineering expertise with customer focus and supply systems worldwide that operate reliably and economically.

Whether in environmental technology, food processing or mining: we listen, we think alongside you – and we deliver more than just decanter centrifuges. Our aim is to work with our customers to develop solutions that fit. Technically, economically and in partnership.

Put your trust in HILLER technology – for sustainable, efficient and safe processes.

That is what we stand for.

Thomas Barth  
(COO)

Dietmar Heller  
(CEO)

Georg v. Massenbach  
(CSO)



### WORLDWIDE

HILLER is a globally recognised manufacturer of decanter centrifuges and systems for solid-liquid separation – from customised solutions to series production.

### INNOVATIVE

HILLER stands for modern manufacturing, innovative technologies and continuously optimised processes – from design to production.

### HIGHEST QUALITY

Over 50 years' experience in decanter centrifuges and plant engineering. HILLER stands for the highest quality – manufactured in Bavaria, Made in Germany.

# Separation technology integrated into your process.

Developed for the most demanding applications – from classic solid-liquid separation to customised solutions. Our decanter centrifuges stand for efficiency, quality and decades of experience. We offer the right technology for every application and industry.

- ✓ Over 50 years of experience
- ✓ Customisable
- ✓ State-of-the-art technology
- ✓ Made in Germany



### VERSATILE APPLICATIONS

Environmental technology, food, mining, energy and chemicals, and just one principle: precision.



### MODULAR DESIGN

2- or 3-phase decanters, individually configurable: from standard to customised solutions.



### CUSTOMISED OPTIMISATION

Every machine is designed precisely to meet the requirements of the specific process.



### ENGINEERING FROM A SINGLE SOURCE

From planning to implementation with dedicated contacts and short decision-making processes.

## Our decanter centrifuges.

### DecaPress

- The highest available torques deliver the best dewatering results in direct comparison with competitors
- Proven wear protection for a longer service life
- Reduced environmental impact through maximum separation efficiency in the discharged centrate



Further information on DecaPress at:

<https://www.hillerzentr.de/en/decanter-centrifuges/decapress>

### DecaTec

- Special functions for specific industrial applications
- Designed for high process temperatures
- Gas-tight construction, ATEX-compliant
- Hygienic design for pharmaceutical, food or sensitive applications
- Corrosion-resistant design
- Impeller disc adjustable via back pressure



Further information on DecaTec at:

<https://www.hillerzentr.de/en/decanter-centrifuges/decatec>



### SEE-Control pro

The SEE-Control pro uses precise process control to optimise the energy efficient operation of HILLER decanter, including all electrical instruments.

- ✓ Clear interface between centrifuge and system
- ✓ Intuitive touch interface
- ✓ On-board Profinet interface
- ✓ Remote monitoring possible

# One project. One solution.

## EVERYTHING FROM A SINGLE SOURCE.

HILLER supplies more than just the centrifuge. We support you from the initial planning meeting right through to the finished plant, and can supply all relevant components at the same time if required. This transforms individual parts into a well-thought-out system solution where everything fits together perfectly.

- ✓ Personal support
- ✓ Planning & delivery
- ✓ Interdisciplinary engineering
- ✓ Short lines of communication & rapid coordination



### NEEDS ANALYSIS & CONSULTATION

We analyse your requirements in detail and provide you with personalised advice to find the optimal solution.



### ENGINEERING & SYSTEM PLANNING

Our experts plan customised system concepts with the highest technical precision.



### COMPONENTS & PLANT CONSTRUCTION

We supply high-quality components and deliver complete plants from a single source.



### DELIVERY & COMMISSIONING

We provide reliable support from on-time delivery through to successful commissioning.



### AFTER SALES & SERVICE

With comprehensive service and rapid support, we ensure the long-term operation of your plant.

# Trial and rental systems.

## FOR A WELL-INFORMED INVESTMENT DECISION

With our fleet of mobile plants, you can test new process concepts directly under real-world conditions, gather real data and develop optimal decanter solutions. And all this quickly, flexibly and worldwide.

The units are equipped with state-of-the-art technology, allowing them to be integrated into existing processes quickly and efficiently, often within just a few hours. Our priority is to minimize any disruption to the customer's ongoing operations.

- ✓ Flexible and rapid deployment
- ✓ Compact footprint
- ✓ High cost-effectiveness
- ✓ Minimal staffing requirements
- ✓ Easy operation
- ✓ Maximum solids content in the discharge
- ✓ High throughput



### ON-SITE TRIALS

Set-up, commissioning and optimisation included for maximum reliability.



### RENTAL SYSTEMS

Test process alternatives without long-term investment or ideal for bridging gaps during repairs and modifications



### LABORATORY ANALYSIS

Our technicians provide ongoing support with laboratory analyses and process optimisation.



# Our service promise: Personal & sustainable.

## OUR SERVICE PROMISE

Behind every product that leaves our premises lies a promise that goes beyond the purchase. We support your product throughout its entire life cycle – not with standardised phrases, but with two clear values.

### PERSONAL

Anyone who builds complex machines must also be able to answer complex questions. So don't look for anonymous chatbots, automated ticketing systems or external call centres – instead, please feel free to contact us personally.

- ✓ Real experts
- ✓ Direct line
- ✓ Approachable

### SUSTAINABLE

For us, sustainability is not just a buzzword, but a technical commitment. We design our products for maximum service life and focus on continuous optimisation throughout their entire lifecycle.

- ✓ Maintain rather than replace
- ✓ Honest value retention
- ✓ Future-proof investment

## YOUR DIRECT LINE TO THE SERVICE TEAM

Whether it's a spare parts enquiry, a maintenance appointment or technical coordination – our team at our headquarters in Vilsbiburg and our service offices are here to assist you quickly and personally.



**55** Years  
REPAIR CENTRE  
Vilsbiburg, Germany



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## Areas of application

- 1 ENVIRONMENTAL TECHNOLOGY & WASTE-WATER TREATMENT
- 2 FOOD & BEVERAGE
- 3 MINING & MINERALS
- 4 OIL & GAS / ENERGY
- 5 CHEMICAL, PHARMACEUTICAL & PROCESS INDUSTRIES

**Our decanter centrifuges are used worldwide across a wide range of industries where reliability, efficiency and process understanding are crucial factors.**

## Tailor-made solutions for water & sludge treatment

**WITH HILLER DECANter CENTRIFUGES YOU REDUCE COSTS AND SAVE VALUABLE RESOURCES.**

HILLER centrifuges are used worldwide in environmental technology to dewater municipal sewage

sludge and treat complex industrial wastewater. Our machines enable efficient separation of solids and liquids, reduce disposal costs and conserve natural resources. We develop plant concepts that are optimally tailored to your requirements.



MUNICIPAL WASTEWATER



DRINKING WATER



AGRICULTURE



INDUSTRIAL WASTEWATER



### ENVIRONMENTAL PROTECTION

Efficient separation processes reduce waste volumes and help to conserve valuable resources in a sustainable way.



### COST EFFICIENCY

Optimised operational processes and low disposal costs ensure consistently high cost efficiency over the long term.



### PROCESS RELIABILITY

Reliable and stable processes guarantee consistent results, even under demanding operating conditions.

## Maximum dewatering. Maximum cost-effectiveness.

In addition to protecting the environment, HILLER technology makes a significant contribution to the cost-effectiveness of the overall process through its minimal use of polymers, low energy and water consumption, and the high solids content in the discharge.

- ✓ Lowest operating costs for sewage treatment plants on the market
- ✓ Minimal sludge disposal costs due to dry matter content in the solids discharge
- ✓ Low energy consumption
- ✓ Low flocculant requirement
- ✓ Reliable, robust construction + a wide range of wear protection technologies proven in practice
- ✓ Low staffing requirements due to stable operation, even during process fluctuations
- ✓ All-round worry-free package thanks to a direct contact person in the service department

## Decanter centrifuge with Lysate technology 2.0

The HILLER lysate device is a decanter technology for thickening excess sludge that has proven itself over decades; in its 2.0 version, it reduces the viscosity of the excess sludge and significantly improves its pumpability.

- ✓ Up to 40% reduction in viscosity and significantly improved pumpability
- ✓ Enhanced degradation of organic matter through anaerobic digestion
- ✓ Increased gas yield
- ✓ Maximised dewatering potential
- ✓ Greater capacity in the digestion tower
- ✓ No recirculation of contaminated cellular water
- ✓ Optimised digestion thanks to reduced foam formation



## Perfection in every drop.

### EFFICIENT SEPARATION TECHNOLOGY FOR THE HIGHEST FOOD STANDARDS.

Whether in the production of olive oil, clear fruit juices or plant-based proteins: the quality of the end product is determined by the process. HILLER decanters combine maximum yield with gentle processing. We ensure that valuable ingredients are preserved and your production remains cost-effective.

- ✓ Maximum efficiency and hygiene with HILLER food centrifuges
- ✓ Gentle processing of sensitive raw materials (low thermal/mechanical stress)
- ✓ Highest hygiene standards (CIP, FDA-compliant, hygienic, dead-space-free design)
- ✓ Maximum yield through efficient, continuous solid-liquid separation
- ✓ Flexible adaptation and easy integration into existing plants



OLIVE OIL



VEGETABLE OIL



ANIMAL PROTEINS & FATS



PLANT PROTEINS



#### HYGIENIC DESIGN

Our centrifuges are optimised for CIP cleaning. Stainless steel construction and food-grade components guarantee maximum safety.



#### ADDED VALUE

Through precise separation, we minimise product losses and increase your yield.



#### GENTLE PROCESSING

Short residence times and a low-oxygen design protect colour, flavour and vitamins.

## Top performance under extreme conditions.

### COST-EFFECTIVE SEPARATION PROCESSES FOR THE RECOVERY OF VALUABLE RESOURCES.

Large-scale projects in mining and tunnelling demand the utmost from both man and machine. Where enormous quantities of drilling slurry or mining residues are generated, process speed is crucial. HILLER decanters are the powerhouse in your system: We guarantee maximum solids dewatering and clean process water – so that your construction site never comes to a standstill.

- ✓ Significant reduction in slurry volume and disposal costs
- ✓ Effective recovery of minerals and process water
- ✓ Lower environmental impact through optimised wastewater management
- ✓ High operational reliability, low maintenance, long service life
- ✓ Reliable wear protection for abrasive materials
- ✓ High operational reliability without downtime



TAILINGS



CIVIL ENGINEERING



MINERALS



COAL



#### WEAR PROTECTION "HEAVY DUTY"

Specially hardened surfaces reduce downtime and maintenance with abrasive mining slurries.



#### MINIMUM RESIDUAL MOISTURE

Our high-performance centrifuges achieve the highest discharge values. This saves money on transport and landfill costs.



#### RESOURCE CONSERVATION

Through the effective recovery of process water, we close the loop and drastically reduce your fresh water requirements.

## Generate energy efficiently. Secure resources.

### MAXIMUM PERFORMANCE FOR THE GLOBAL ENERGY INDUSTRY

In the energy sector, downtime and environmental risks are not an option. HILLER offers highly specialised separation technology that comes into play where efficiency determines success: in the recovery of valuable oil, the treatment of process

water and the safe handling of residues. We turn waste back into a raw material – worldwide and under the strictest safety regulations.



TRANSPORT & STORAGE



DRILLING



REFINERIES



TANK CLEANING



### CONSERVATION OF RESOURCES

Recovering valuable oils from waste materials reduces waste and creates new raw materials for sustainable use.



### MATERIAL RECOVERY

The processing of oil and production residues transforms waste into usable energy sources and valuable byproducts.



### PROCESS OPTIMIZATION

Efficient plant designs continuously improve separation performance and sustainably reduce operating costs.

## Where chemistry meets high performance.

### INTELLIGENT SEPARATION TECHNOLOGY FOR DEMANDING PROCESS INDUSTRIES.

In the chemical and pharmaceutical industries, the process is just as valuable as the end product. Whether aggressive acids, high-purity pharmaceutical active ingredients or complex polymers: the demands on safety and materials are extreme. HILLER offers you tailor-made centrifuge technology that guarantees the highest levels of purity, protects your valuable raw materials and offers maximum service life even under corrosive conditions.

- ✓ Flexible application, as 3-phase machines can also be converted to 2-phase operation
- ✓ Corrosion-resistant materials, including special alloys, depending on product properties
- ✓ Explosion-proof design, as required, for example through inerting with nitrogen



PETROCHEMICALS



TECHNICAL SALTS



PHARMACEUTICALS



BIODIESEL & ETHANOL



### SAFETY

Safe processes and ATEX-compliant design ensure reliable operation even in sensitive applications.



### PRODUCT PURITY

Maximum purity and consistent results ensure stable, controlled production processes with consistently high product quality.



### PROCESS STABILITY

Consistent and robust processes ensure consistent results even with demanding media and conditions.

■ Sales & Service Organisation

**HEADQUARTERS**  
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