



Centrifuges

PRODUCT OVERVIEW





Centrifuges

De Dietrich offers a comprehensive range of industrial centrifuges designed for reliable solid-liquid separation in pharmaceutical, fine chemical, and chemical processing applications. Engineered for performance and flexibility, our solutions are tailored to meet the specific requirements of each process—from filtration and washing to efficient cake discharge.



Inverting Filter Centrifuges

- Proven, robust design for reliable, long-term performance
- Engineered to meet the stringent requirements of the chemical and pharmaceutical industries
- Ideal solution for handling demanding and sensitive products
- Residual heel-free product discharge with minimal internal installations in the housing and basket—ensuring optimal containment and maximum yield for high-potent API applications
- Significant reduction in residual moisture compared to conventional filtration, enabled by Pressure Added Centrifugation (PAC) technology



TYPE HF 1000.1



HF Designs

TYPE	HF 300.1	HF 450.1	HF 600.1	HF 800.1	HF 1000.1	HF 1300.1
Basket Diameter [mm]	300	450	600	800	1000	1300
Filter Area [m ²]	0.10	0.31	0.41	0.85	1.26	2.04
Max. Load [kg]	8	33	65	150	250	440
Max Centrifugal Force [x g]	1500	1320	1260	1140	900	720



Horizontal Peeler Centrifuges



Chemical (C) Designs

- Proven, robust design
- Versatile options available regarding basket and door design, feed pipes and suspension feeding, residual heel removal concepts as well as various unloading devices
- Bearing designed as exchangeable unit
- Optimal adaptation to changing products and product characteristics
- High throughput capacities because of short cycle times
- Low residual moisture because of high g-forces
- High product purities because of effective wash process



TYPE H 1250 C

TYPE	H 630 C	H 800 C	H 1000 C	H 1250 C	H 1600 C
Basket Diameter [mm]	630	800	1000	1250	1600
Filter Area [m ²]	0.79	1.26	1.98	3.14	5.03
Max. Load [kg]	62	125	260	533	1075
Max Centrifugal Force [x g]	2028	1614	1258	1006	807



Horizontal Peeler Centrifuges (*continued*)



Pharma (P) Designs

- Swinging open housing for easy inspection
- Clean room installation possible
- Hydraulically operated housing locking mechanism by single clamping elements, therefore minimal area for product deposit
- Fully automatic, validated CIP-process possible
- Design virtually free of dead spaces, minimized number of screwed connections in the process housing
- Filtrate outlet at the rear part of the process housing, low dismantling expenses to prepare for the opening of the housing
- High flexibility at frequent product changes
- Quick change of the filter element
- Bearing designed as exchangeable unit



TYPE H 1300 P

TYPE	H 630 P	H 800 P	H 1000 P	H 1300 P	H 1600 P
Basket Diameter [mm]	630	800	1000	1300	1600
Filter Area [m ²]	0.62	1.00	1.57	3.27	4.02
Max. Load [kg]	51	105	214	540	880
Max Centrifugal Force [x g]	2028	1449	1258	1046	894



Vertical Peeler Centrifuges

- Design matches with requirements in the chemical and pharmaceutical industry
- Machines can be used for many different products
- High throughput capacity
- Versatile options available regarding basket design, cover design, feed pipes and suspension feeding, discharger and residual heel removal concepts
- Optimal adaptation to customer and product requirements



TYPE V 1600 BC



TYPE V 800 BG



Chemical (BC) and Gypsum (BG) Designs

TYPE	V 800 BC, BG	V 1000 BC, BG	V 1250 BC, BG	V 1600 BC, BG
Basket Diameter [mm]	800	1000	1250	1600
Filter Area [m ²]	1.58	1.98	3.14	5.03
Max. Load [kg]	200	315	625	1280
Max Centrifugal Force [x g]	797	805	631	503



TYPE V 1250 BP



Pharma (BP) Designs

TYPE	V 1000 BP	V 1250 BP
Basket Diameter [mm]	1000	1250
Filter Area [m ²]	1.57	2.47
Max. Load [kg]	250	492
Max Centrifugal Force [x g]	805	1006



Top Discharge Centrifuges

- Cost-effective solution for various separation processes
- Design matches with requirements in the chemical and pharmaceutical industry
- Solids discharge with no losses
- Automatic CIP process
- Easy to inspect
- User-friendly operation and maintenance
- Basket available with detachable rim



TYPE V 800 TC



Chemical (TC) Designs

TYPE	V 630 TC	V 800 TC	V 1000 TC	V 1250 TC	V 1600 TC
Basket Diameter [mm]	630	800	1000	1250	1600
Filter Area [m ²]	0.79	1.26	1.98	3.14	4.02
Max. Load [kg]	76	200	315	626	1025
Max Centrifugal Force [x g]	1271	1006	805	631	503



TYPE V 1000 TP



Pharma (TP) Designs

TYPE	V 630 TP	V 800 TP	V 1000 TP	V 1250 TP	V 1600 TP
Basket Diameter [mm]	630	800	1000	1250	1600
Filter Area [m ²]	0.62	1.01	1.57	2.47	4.02
Max. Load [kg]	60	128	250	492	1025
Max Centrifugal Force [x g]	1271	1006	805	631	503



Horizontal Pilot Plant Centrifuges

- Compact design
- Very simple installation “plug and use” application
- cGMP compliant (pharma design)
- Ideal for “upscaling”
- Fully automatic operation



TYPE H 500 C



Chemical (C) Designs

TYPE	H 500 C	H 630 C
Basket Diameter [mm]	500	630
Filter Area [m ²]	0.39	0.79
Max. Load [kg]	25	62
Max Centrifugal Force [x g]	1504	2028



TYPE H 300 P



Pharma (P) Designs

TYPE	H 300 P	H 320 P	H 500 P
Basket Diameter [mm]	300	320	500
Filter Area [m ²]	0.14	0.07	0.39
Max. Load [kg]	4	4	25
Max Centrifugal Force [x g]	1996	2007	1504



Vertical Pilot Plant Centrifuges

- Mobile, compact design
- Very simple installation “plug and use” application
- Ideal for “upscaling”
- Baskets for basic tests for filtration, sedimentation and classifying
- Clean-in-Place (pharma design)
- For installation with isolators/gloveboxes (pharma design)



TYPE V 300 TC



TYPE V 300 TP



Chemical and Pharma Designs

TYPE	V 300 TC, TP	V 400 TC, TP	V 500 TC, TP
Basket Diameter [mm]	300	400	500
Filter Area [m ²]	0.14	0.31	0.47
Max. Load [kg]	6	20	38
Max Centrifugal Force [x g]	2054	1397	1118



Classifying Centrifuges

- Precise, adjustable separation cut
- High throughput capacity
- Coarse particle recycling capability
- Low-maintenance, service-friendly design
- Electrically driven turbulence blade
- Pneumatically operated siphon discharge for classified suspension



TYPE V 630 BK



Classifying Centrifuges

TYPE	V 630 BK
Basket Diameter [mm]	630
Filter Area [m ²]	100
Max. Load [kg]	77
Max Centrifugal Force [x g]	3169

Vertical Plasma Fractionation Centrifuges

- Constant product temperature via double-walled housing and base
- Sterile design, including feed and suction piping
- GMP-compliant CIP cleaning to the highest standards
- Direct drive for enhanced performance and dynamics
- Compact footprint with minimal space requirements



TYPE V 630 TS



Fractionation Centrifuges

TYPE	V 630 TS	V 800 TS
Basket Diameter [mm]	630	800
Filter Area [m ²]	0.62	1.06
Max. Load [kg]	62	125
Max Centrifugal Force [x g]	3170	3000



Beyond Equipment: Technical Services & Process Support

At De Dietrich, our commitment extends beyond supplying centrifuges. With decades of process expertise and a comprehensive range of technical services, we help customers optimize performance, reduce risk, and maximize the value of their equipment throughout its lifecycle. From pilot testing and process simulations to performance improvements and equipment refurbishment, our team provides the support needed to achieve reliable, efficient operation.



Test Center

Validate Performance with Real-World Testing

Even small process improvements can have a significant impact on productivity and operating costs. Our engineering team works with customers to identify opportunities to improve centrifuge performance, increase throughput, reduce cycle times, improve product quality, and enhance overall process efficiency.

Applications include:

- Feasibility studies
- Equipment selection
- Process optimization and scale-up
- Product development
- Throughput evaluation



Refurbishment

Extend Equipment Life and Restore Performance

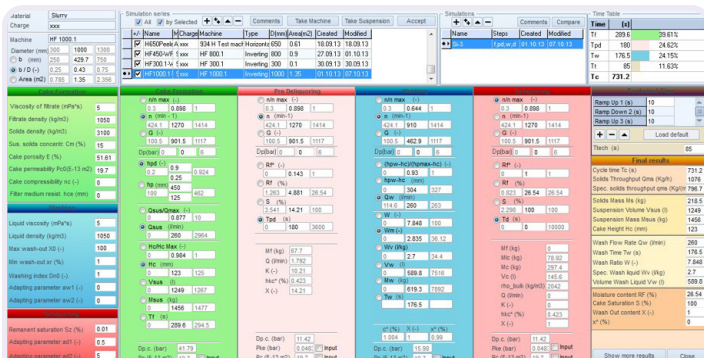
Whether modernizing existing equipment or returning a centrifuge to like-new condition, our refurbishment services help maximize the value of your investment. From inspections and repairs to complete rebuilds and upgrades, we provide cost-effective solutions that improve reliability, extend service life, and help maintain peak performance.

Available Services Include:

- Mechanical and electrical refurbishment
- Component replacement
- Performance upgrades
- Safety enhancements
- Factory-certified rebuilds



Technical Services & Process Support (continued)

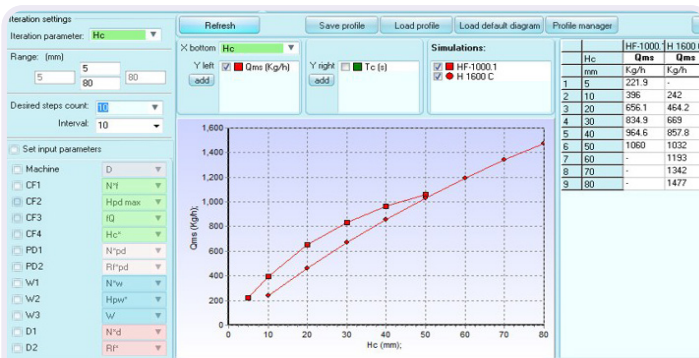


Process Optimization Maximize Efficiency and Throughput

Even small process improvements can have a significant impact on productivity and operating costs. Our engineering team works with customers to identify opportunities to improve centrifuge performance, increase throughput, reduce cycle times, improve product quality, and enhance overall process efficiency.

Support Services include:

- Performance assessments
- Process troubleshooting
- Capacity improvements
- Cycle time reduction
- Separation efficiency optimization



Simulations Turn Process Data into Better Decisions

Our advanced simulation and modeling tools help predict centrifuge performance and evaluate process variables before changes are made in production. By combining process data with decades of application experience, we can help identify opportunities to improve performance, reduce cycle times, and optimize operating parameters.

Benefits include:

- Performance forecasting
- Process comparison and evaluation
- Reduced development costs
- Improved equipment selection and scale-up
- Faster project execution



Your Partner for Long-Term Success

From initial process development through ongoing optimization and equipment lifecycle support, De Dietrich provides the expertise, testing resources, and service capabilities needed to help you achieve reliable and efficient solid-liquid separation.



Find the Right Fit for Your Process

As you evaluate centrifuge options, the decision comes down to fit: the right design for your product, your operating environment, and your process requirements.

You may be weighing throughput, wash performance, product purity, cleanability, containment, inspection access, changeover frequency, or scale-up considerations. With a broad range of centrifuge technologies for chemical, pharmaceutical, pilot plant, and specialized applications, De Dietrich gives you the flexibility to align equipment selection more closely with the way you need the process to perform.

Whether you are narrowing down machine type, comparing configurations, or working through application-specific requirements, De Dietrich can help you identify the centrifuge solution best suited to your operation.

Need help finding the right solution? **Contact the experts at De Dietrich.** We'll work with you to identify the right centrifuge for your application.



DE DIETRICH is a global leader in the design and supply of systems, process equipment, and solutions for the pharmaceutical, food, green chemistry, and chemical industries.

With extensive expertise in centrifugation and solid-liquid separation technologies, alongside glass-lined equipment, borosilicate glass, and other corrosion-resistant materials, we provide a full spectrum of support—from testing and process optimization to complete turnkey systems.

How can we help you meet your business's chemical processing needs?

To find out more, contact us:

Visit - www.ddpsinc.com

LinkedIn - [dedietrichgroup](https://www.linkedin.com/company/dedietrichgroup)

Call - [908-317-2585](tel:908-317-2585)

Email - sales@ddpsinc.com