Centrifuge Technology
Our innovation – your benefit
Base chemicals

Pusher centrifuges
Continuous operation
High product wash efficiency, low residual moisture
High product recovery, low energy consumption
Robust design even under toughest conditions

Salts: Sodium chloride, sodium sulfate, etc.
Fertilizers: Potassium chloride, ammonium nitrate, sulfates, etc.
Plastics: Adipin, ABS, etc.
Soda, Cellulose, etc.

PM-230 pusher centrifuge
• Originally developed by Escher-Wyss
• Basket diameter: 230 mm
• Typical capacity for NaCl: 1.5 t/h
• Mechanical pusher mechanism

P-32 – 50 pusher centrifuges
• Developed by Ferrum-Escher-Wyss
• Basket diameter: 320 mm – 500 mm
• Typical capacity for NaCl: 6 – 18 t/h
• Hydraulic pusher mechanism

P-60 – 120 pusher centrifuges
• Originally developed by Escher-Wyss
• Basket diameter: 600 mm – 1200 mm
• Typical capacity for NaCl: 30 – 85 t/h
• Hydraulic pusher mechanism

Upgrades for pusher centrifuges
• Integrated pre-thickening cone: product pre-thickening directly inside the centrifuge
• Pulsed feeding: higher product throughput with existing centrifuges
Pharmaceuticals/Fine chemicals

**Scraper and top discharge centrifuges**
- Discontinuous operation
- Design according to latest cGMP guidelines
- Modularity and upgrade possibilities
- Easy inspection of all functional devices

**Herbicides, pesticides, proteins, vitamins (C, A, K, etc.), gypsum, starch, lysines, API, etc.**

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**HPZ 630 – 1600 horizontal scraper centrifuges**
- Basket diameter: 630 mm – 1600 mm
- Basket volume: 41 l – 704 l
- Horizontal discharge through solids discharge chute
- For pharmaceutical applications
- Optional clean room installation using membrane connection
- Swivel open housing and front door (optional)

**VTC 320 – 1600 vertical top discharge centrifuges**
- Basket diameter: 320 mm – 1600 mm
- Basket volume: 6.6 l – 820 l
- Vertical top discharge
- Special design for mobile turnkey systems for the use in Ex-Zone 1 areas (according to RL 94/9/EG)
- Special design for installation in isolators for handling of toxic substances

**VBC 1000 – 1600 vertical scraper centrifuges**
- Basket diameter: 1000 mm – 1600 mm
- Basket volume: 200 l – 1011 l
- Vertical bottom discharge
- Design for pharmaceutical and chemical applications
- Optional clean room installation using membrane connection
- Swivel open cover and housing (optional)

**HCZ 1000 – 2000 horizontal scraper centrifuges**
- Basket diameter: 1000 mm – 2000 mm
- Basket volume: 172 l – 1718 l
- Horizontal discharge through solids discharge chute or screw conveyor
- For fine chemical and chemical applications
- Very robust design, high throughputs
- Permanent operation under toughest conditions

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Peripheral system parts

Accessories for pusher, scraper and top discharge centrifuges

Peripheral elements
- Siphons, pressure relief valves, flexible connections
- Valves for chemical and pharmaceutical applications
- Solids discharge cones, container docking stations
- CIP-, N₂-, control air-, hydraulic-collectors
- DAU-dosing devices for the continuous discharge of suspension from tanks

Automation

Customised control and drive systems

Drive systems
- Optimally designed drive units
- Energy recovery
- Explosion protection in Ex-Zone 1 areas (according to RL94/9/EG)
- Sensor technology and data logging

FERRUM inertisation system InertoSafe® SIL 2
- SIL 2 (EN 61511) certified inertisation and control system
- Independent system – no validation costs
- SIL 2 (EN 61511) validation certificates included
- For the inertisation of any vessel
- All instruments with UL, CSA certificates

Control systems
- Software programming
- Operator panels and control cabinets
- Connections to distributed control systems, remote maintenance
- Design according to the latest safety standards
- Explosion protection in Ex-Zone 1 areas (according to RL 94/9/EG)
Expertise all under one roof

Design, construction, production, assembly, project management, etc.

Aftersales service
- Large warehouse with spare and wear parts, worldwide and fast delivery
- Inhouse production of sieve elements for pusher centrifuges
- Overhauls, reengineering and upgrading of existing installations
- Service contracts based on BGR 500
- Customised client training
- Service centres worldwide

Used equipment at good value
- Overhaul including functional test by FERRUM LTD.
- Short delivery times, 12 month guarantee

Process technology support
- Product tests in the laboratory and on customer’s site
- Semi-industrial tests on customer’s site
- Commissioning of new and optimisation of existing installations

Documentation according to newest guidelines
- Certificates according to EN 10204 (e.g. 3.1 certificates) and customer’s specifications
- DQ/IQ/OQ supporting documentation
- AS BUILT documents, data sheets, manuals
- Easy to use wear and spare parts catalogue with drawings, etc.

Excellence since decades
FERRUM LTD. was founded in 1917 and is still a family owned company, consolidating 5 business units operating in different industries. The broad diversification of the product range, a high degree of self financing as well as economic independence secure a strong position with excellent perspectives in the future.
Over 60 representatives worldwide