



# BELT FILTER PRESS AND ACCESSORIES







# We give a promise for a cleaner future

We provide equipment for water, wastewater and sludge treatment, as well as for the drying of various biomasses under our DEWA brand. Our goal is to be the most trusted and well-known partner in our field globally. Flexible and reliable operations and meeting customers' needs with high-quality and globally competitive products and services are at the heart of our operations. We value and respect our partners and customers and strive to serve them with quality on a long-term basis and creating lasting value in an economically, environmentally and socially sustainable way.

We have implemented high-level solutions across different industries and municipalities around the globe, spanning more than 90 countries since 1986. We offer non-metallic chain scraper systems and accessories for sludge and scum collection for a wide range of applications. For sludge thickening and dewatering, we offer everything you need from single units to full systems. Our equipment is all designed and manufactured in Finland.

It takes more than the right equipment to successfully carry out a project that meets the goals set for efficiency and sustainability. Quality, know-how, flexibility, accuracy, honesty, and the right attitude are must-haves to establish trustworthy partnerships that lead to a cleaner future. This is what we offer at DEWA.



**Globally tested and proven quality**

# DEWA N-PD XL

Introducing our premium Belt Filter Press with an integrated Belt Thickener, featuring a completely separate belt and drive unit. This powerful product excels in delivering outstanding results and flexibility, making it ideal for both municipal and industrial applications. Elevate your water and wastewater treatment processes with this top-of-the-line solution.

## **Unbeatable value for a wide range of solutions**

Discover the versatility of our N-PD XL Belt Filter Press, available in various sizes to accommodate diverse sludge quantities and loads. With minimal operational and maintenance costs, this model proves to be a substantial investment for your projects, ensuring efficiency without compromising your budget.



BELT FILTER PRESSES	THICKENERS	POLYMER UNITS	FLOCCULATOR	CONVEYORS	CONTROL PANELS	ACCESSORIES
	N-PD7 XL	N-PD11 XL	N-PD16 XL	N-PD21 XL	N-PD26 XL	N-PD31 XL
Power (kW)	0.92	0.92	0.92	0.92	0.92	1.65
Weight (kg)	1400	1700	2200	2900	2400	4000
Belt width (mm)	700	1100	1600	2100	2600	3100
Effective filtrate area (m <sup>2</sup> )	6.3	10.1	14.5	19.5	24.2	29

## Key features

- ▶ **Independent operation:** Separate thickener and pressing sections with distinct belts and drive units.
- ▶ **Energy efficiency:** Low energy consumption for cost-effective performance.
- ▶ **Optimized drive units:** Drive units equipped with frequency speed inverters for efficient operation.
- ▶ **Pneumatic steering and tensioning:** Implemented on both sections (thickener & pressing) for precise control.
- ▶ **Efficient cleaning system:** Three belts, each featuring a spray cleaning system for effective maintenance.
- ▶ **Roller configuration:** Three rollers in the thickening area and twenty rollers in the pressing area for enhanced functionality.
- ▶ **Premium material construction:** Every component crafted from premium stainless steel or high-grade plastic materials.
- ▶ **Easy accessibility:** Designed for easy access and straightforward maintenance.
- ▶ **Convenient covers:** Large, lightweight covers facilitate convenient access during maintenance.
- ▶ **Long-lasting durability:** Remarkably long lifespan, ensuring durability and reliability.

## Customize to your needs

- ▶ **Efficient filtrate management:** Filtrate collection tray for seamless handling.
- ▶ **Sludge cake discharge:** Discharge hopper designed for effective sludge cake outlet.
- ▶ **Intelligent control system:** Cutting-edge control system for precision and ease of operation.
- ▶ **Enhanced automation:** Extended automation features for increased efficiency.
- ▶ **Odor management integration:** Odor connection for a comprehensive solution.
- ▶ **Filtrate water recycling:** Recycling water system dedicated to filtrate water for sustainable usage.



Your ultimate solution for high-performance sludge dewatering

# DEWA AURA PRESS



## Quality and cost efficiency combined

At DEWACO, we understand that your requirements vary – encompassing the need for high performance, uncompromising quality, and budget-conscious solutions. That's why AURA PRESS stands as the definitive solution to your challenges. Our unwavering commitment to excellence is evident in every aspect of its construction, featuring high-quality stainless steel for both frame and rollers. This ensures unrivalled durability and reliability throughout its lifespan.

## Three stages of excellence

What sets AURA PRESS apart is its innovative design, which incorporates three meticulously crafted dewatering stages: the 'pre-dewatering zone,' the 'low-pressure zone,' and the 'high-pressure zone.' These stages work in harmony to deliver the utmost sludge dryness achievable.

	AURA PRESS 11	AURA PRESS 16	AURA PRESS 21	AURA PRESS 26	AURA PRESS 31
<b>Belt width (mm)</b>	1100	1600	2100	2600	3100
<b>Filtration area (m<sup>2</sup>)</b>	11.2	15.6	20.6	25.3	30.1
<b>Power (kW)</b>	0.55	0.55	0.55	0.55	1.1
<b>Weight (kg)</b>	1200	1500	2000	2700	3800

## Efficiency redefined

But we don't stop there. Recognizing the importance of cost efficiency, we've taken into account every detail, making AURA PRESS exceptionally suitable for shipping. This equipment is thoughtfully designed to fit snugly inside containers of all sizes, effectively reducing your shipping costs whether you're purchasing, storing, or transporting it internally.

## Customization for savings

To further enhance cost-effectiveness, AURA PRESS is equipped with a single powerful geared motor, celebrated for its minimal energy

consumption. Additionally, we provide you with the flexibility of choosing from our range of drum roller options. This empowers you to tailor the system precisely to your unique requirements – ensuring not only superior dryness levels but also delivering energy savings that align seamlessly with your specific needs.

## Your dedicated solution

AURA PRESS is more than just a belt press – it's a dedicated solution designed with your success in mind. Explore the possibilities, embrace efficiency, and elevate your sludge dewatering operations with AURA PRESS, where innovation meets performance.

---

## Key features

- ▶ **Three Dewatering Stages:** AURA PRESS boasts three precision-engineered dewatering stages to maximise sludge dryness: thickening zone, low-pressure zone, and high-pressure zone.
- ▶ **Energy Efficiency:** With low energy consumption, AURA PRESS is designed to save on operational costs.
- ▶ **Variable Speed Control:** The unit offers flexibility through speed adjustment via a frequency inverter in the drive unit.
- ▶ **Effortless Management:** Equipped with a pneumatic steering and tensioning system for smooth operation.
- ▶ **Efficient Cleaning:** Each of the two belts is equipped with a spray cleaning system to maintain peak performance.
- ▶ **Durable Construction:** AURA PRESS features a robust stainless steel frame and rollers, ensuring longevity and reliability.
- ▶ **Accessible Maintenance:** Designed for easy access and maintenance to minimise downtime.
- ▶ **Lightweight Covers:** Large, lightweight covers enhance usability without compromising on durability.
- ▶ **Extended Lifespan:** AURA PRESS is engineered for an exceptionally long lifespan, offering enduring performance.
- ▶ **Logistical Efficiency:** Excels in logistics as all sizes of this model can be delivered inside a standard container, eliminating the need for flat transportation.

---

## Customise to your needs:

Tailor AURA PRESS to your specific requirements with a range of customizable options:

- ▶ **Filtrate Collection Tray:** Effortlessly collect filtrate water and connect it to your pipeline for seamless recycling.
- ▶ **Discharge Hopper:** Add a discharge hopper for efficient sludge cake outlet management.
- ▶ **Control System:** Choose from a variety of control systems to suit your operational preferences.
- ▶ **Odor Control:** Implement an odor connection to maintain a pleasant working environment.
- ▶ **Drum Roller:** Select from our range of drum roller options to further optimise performance.

**A tailored solution designed to your sludge dewatering applications**

## **DEWA P-C PRESS**



*DEWA P-C Press makes your  
sludge dewatering process  
smoother, quicker, and more  
effective.*





## Our Efficient and Cost-Effective Small-Scale Sludge Dewatering Partner

When it comes to sludge dewatering for smaller quantities, we understand the unique challenges you face. That's why we've engineered the DEWA P-C Sludge Dewatering Unit as your top choice and the most cost-effective solution in the DEWA family of belt filter presses.

### Unlocking Efficiency

Bid farewell to the headaches of inefficient dewatering. The DEWA P-C is more than just equipment – it's your dedicated partner in streamlining operations, enhancing efficiency, and guaranteeing optimal results.

## Smoothing Your Process

Our team of experts has meticulously designed the DEWA P-C to make your sludge dewatering process smoother, quicker, and more effective. We understand that every drop counts and our solution is here to ensure you maximize your resources.

Choose the DEWA P-C Sludge Dewatering Unit for a new era of efficiency, effectiveness, and ease in your sludge dewatering applications. It's not only the most efficient but also the most cost-effective solution tailored to your specific needs.

## Key Features

- ▶ **Cost-Effective Performance:** Saves costs without compromising results.
- ▶ **Space-Optimizing Compact Design:** Compact design that optimizes limited spaces.
- ▶ **Productivity-Boosting Simplicity:** Simple operation that boosts productivity.
- ▶ **Versatile Sizing Options:** Three sizes available to match your volume needs.
- ▶ **Enhanced Filtration with Gravity Section:** Integrated gravity section for better results.
- ▶ **Eco-Friendly Energy Efficiency:** Low energy use for both cost and eco-savings.
- ▶ **Durable Construction:** Premium stainless steel ensures durability.
- ▶ **Hassle-Free Maintenance:** Streamlined design for hassle-free care.

MODEL	P-C 7	P-C 11	P-C 16
Power (kW)	0.37	0.37	0.55
Filtrate area (m <sup>2</sup> )	3.3	5.3	7.5
Weight (kg)	700	900	1200
Width mm	1350	1750	2250
Length mm	2290	2290	2290
Height mm	1560	1560	1560

## Gravity belt thickener

# DEWA BTN THICKENER

The DEWA BTN Gravity Belt Thickener is a fully enclosed system designed to significantly increase the concentration of dry solids in the feed sludge.



*Elevating efficiency,  
reducing volume,  
maximizing results.*



## Elevating Productivity

Discover the DEWA BTN Gravity Belt Thickener – a smart solution that enhances your productivity and maintains cleanliness. By significantly increasing solid concentration in incoming sludge, our system simplifies your processes.

## Odor-Free Workspace

Our enclosed design ensures a fresh workspace by containing any odors. The integrated ventilation pipe ensures a pleasant, odor-free working environment.

## Hassle-Free Maintenance

Maintenance is hassle-free with components like electrical systems, pneumatics, and bearings positioned for easy access. The BTN works

seamlessly with DEWA Belt Filter Presses, creating a setup that efficiently handles higher dewatering volumes.

## Water Optimization

Specially designed ploughs enhance water removal, while transverse beams beneath the belt prevent surface tension. These features work together to optimize water extraction and keep your operations smooth.

## Built for Quality

Quality is paramount. The BTN Belt Thickener is crafted from durable stainless steel, providing a reliable solution for your dewatering needs. We prioritize your efficiency and a clean workspace, offering a solution that suits your requirements.

## Key features

- ▶ **Enclosed efficiency:** Fully enclosed and compact design for optimal space utilization.
- ▶ **Energy-efficient operation:** Low energy consumption to minimize costs.
- ▶ **High sludge volume capacity:** Designed to handle high sludge volumes effectively.
- ▶ **Configurable flexibility:** Flexible configuration options to meet diverse operational needs.
- ▶ **Robust, non-corrosive frame:** Constructed with a robust, non-corrosive frame for long-lasting durability.
- ▶ **Automated operational excellence:** Fully automated operation for streamlined efficiency.
- ▶ **Minimal spare parts:** Minimal spare part requirements, ensuring cost-effective maintenance.

## Capacity and Dimension Table

MODEL	BTN1020	BTN1035	BTN1535	BTN2035	BTN2535	BTN3035
Belt width (mm)	1100	1100	1600	2000	2500	3100
Filtrate area (mm)	2.0	3.5	5.3	7.0	8.8	10.5
Power (kW)	0.37	0.37	0.37	0.55	0.55	0.75
Weight (kg)	750	1100	1350	1600	1800	2000
Width	1900	1900	2410	2980	3450	3950
Length	2700	4800	4800	4800	4800	4800
Height	1700	1700	1700	1700	1700	1700

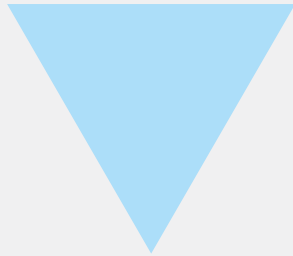
Reach out to our knowledgeable experts for additional information and assistance with sizing.



## Gravity belt thickener

# DEWA HGT THICKENER

DEWA HGT Thickener enhances dry solid concentration in incoming sludge. Its enclosed design curbs odors, while its adaptability effortlessly accommodates varying volumes. Crafted from stainless steel, this thickener ensures lasting reliability. Beyond mere equipment, DEWA HGT Thickener becomes your trusted ally – a choice of efficiency and excellence.



*Our solution adapts to  
varying needs, easily  
handling high sludge  
volumes.*



## Tailored to Your Capacity Needs

Do you handle various sludge types while seeking exceptional results? The DEWA HGT Belt Thickener offers a broad capacity range to meet your unique requirements.

## Effortless Operation and Efficiency

Our innovative design features static belt steering and mechanical belt tensioning, streamlining operations and reducing the need for extra equipment.

## User-Friendly Access and Inspections

Equipped with a high-grade, non-metallic cover, our thickener ensures easy access and inspections, making it user-friendly and efficient.

## Transport and Storage Convenience

All sizes of the thickener are container-friendly, minimizing transportation costs and simplifying storage.

Choose the DEWA HGT Belt Thickener for a versatile and cost-effective solution that caters to your specific sludge management needs. Experience efficiency like never before.

## Key Features

- ▶ **Tailored sludge treatment:** Adjustable Belt Speed for customizing speed based on different sludge types.
- ▶ **Efficiency with cost savings:** Efficient and cost-effective design, delivering good results without high operational costs.
- ▶ **Simplified upkeep:** Easy Maintenance with open hatches for straightforward and uncomplicated care.
- ▶ **User-friendly operation:** User-friendly Operation with no need for complex systems.
- ▶ **Portable convenience:** Easy to Move, designed to fit in containers, making relocation hassle-free.
- ▶ **Enhanced performance options:** Better Performance Choices, including the option to add DEWA pressuring plate for improved dewatering.

MODEL	HGT 1025	HGT 1040	HGT1525	HGT 1540	HGT 2025	HGT 2040
Belt width (mm)	1100	1100	1600	1600	2000	2000
Filtrate area (m <sup>2</sup> )	2.5	4.0	3.75	6.0	5.0	8.0
Power (kW)	0.37	0.37	0.37	0.37	0.55	0.55
Width mm	1040	1040	1560	1560	2060	2060
Length mm	2700	4600	2700	4600	2400	4600
Height mm	1700	1700	1700	1700	1700	1700

Reach out to our knowledgeable experts for additional information and assistance with sizing.

**Robust and reliable solution**

# DEWA F-M FLOCCULATOR

The DEWA F-M Flocculator is an important tool in treating water and wastewater. It helps make water clearer and forms groups of particles called flocs. In sludge dewatering, it's important to prepare the sludge with a special substance before removing the water. The DEWA F-M Flocculator does this job.



## Polymer-Powered Efficiency

Let's make your sludge dewatering process even better with the DEWA F-M Sludge Conditioner.

We know that getting rid of water from sludge works best when we prepare it with something special called a polymer. Our F-M Sludge Conditioner is made just for that – help to create perfect groups of stuff called flocs.

## Control at Your Fingertips

Picture having more control. Our F-M Sludge Conditioner comes with a stirring paddle, and you can make it go slower or faster, from 20 to 100 rounds per minute.

## Versatile Sizing Options

Whether you have lots or a little bit of sludge, we've got you covered. You can choose from different sizes of tanks that fit your needs.

## Built to Last

You can trust us. The DEWA F-M is strong and reliable because we built it with tough stainless steel. We know that everything fitting together smoothly matters. That's why we have different ways to connect the F-M to other equipment, so it all works together well in your setup.

## Tailored Solutions

Trust a solution that achieves what you need. Choose the DEWA F-M Sludge Conditioner and see how dewatering can be even better. This helps make the flocks perfect for your processes.

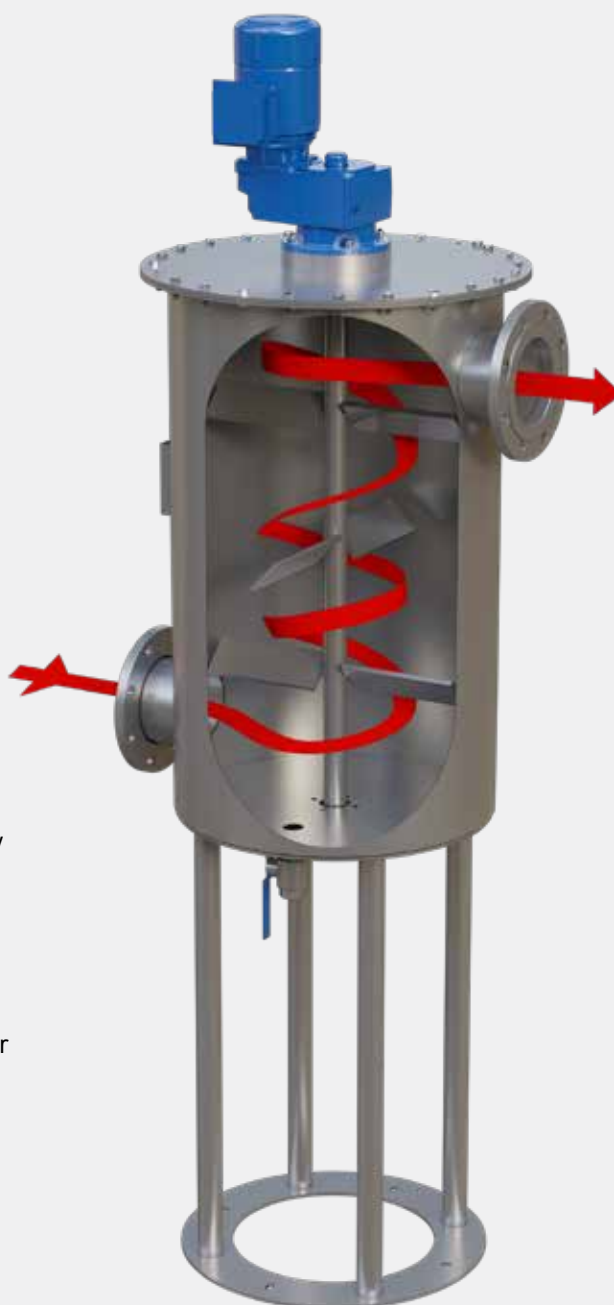




*Perfect fit for other  
Dewa dewatering  
instruments.*

### Key features

- ▶ **Effective mixing:** Stirring stick for good mixing, featuring a dynamic paddle stirrer.
- ▶ **Versatile connection options:** Different ways to connect, providing versatile flange and tray options.
- ▶ **Durable construction:** Made from strong stainless steel, ensuring robust material and parts for both the body and paddle.
- ▶ **Tailored size options:** Choose the size for your sludge with convenient model selection.
- ▶ **Stability support:** Comes with legs for stability, with supporting legs included for added security.



MODEL	F-M75	F-M110	F-M170	F-M250	F-M350	F-M500	F-M700	F-M1000	F-M1700 Rectangular
Capacity in liter	75	110	170	250	350	500	700	1000	1700
Height (mm)	1370	1370	1600	1600	1950	2000	2150	2580	1600
Weight (kg)	80	90	120	135	160	200	330	480	580
Power (kW)	0.37	0.37	0.37	0.55	0.55	0.55	0.75	0.75	1.5

## Automated polymer preparation unit

# DEWA A-P POLYMER UNIT

### Our Approach to Efficiency

DEWA's Polymer Preparation Units are designed for maximum efficiency, ensuring your operations run smoothly. With our batch preparation philosophy, you can achieve the ideal concentration quickly, thanks to a one-hour aging process from start to finish. High-quality stainless steel materials and components guarantee both product excellence and long-term reliability.

Tailoring polymer concentration to your specific needs is easy. Our units offer precise calibration for the dry polymer feed rate and dilution water flow rate, all easily adjustable through the user-friendly PLC panel. Experience flexibility like never before, with standard volumes ranging from 1 m<sup>3</sup> to 10 m<sup>3</sup> and strengths from 0.05% to 0.4%. Need further dilution? We've got you covered.

### Unmatched Efficiency and Savings

DEWA Polymer Prep Units redefine efficiency and savings. Fully automatic, they streamline operations and dramatically reduce maintenance costs. Say goodbye to time-consuming manual processes and costly upkeep. Our units optimize polymer consumption, minimizing waste and maximizing performance.

DEWA's commitment is to enhance your operations with effortless efficiency. Our units save you time, money, and effort, all while delivering superior results. Experience the future of polymer preparation. Contact us today.





## Key features

- ▶ **Efficient batch preparation:** Designed for maximum efficiency with a batch preparation philosophy, ensuring smooth operations.
- ▶ **Premium stainless steel construction:** High-quality stainless steel materials and components guarantee product excellence and long-term reliability.
- ▶ **User-friendly PLC Panel:** Adjust dry polymer feed rate and dilution water flow rate easily through the user-friendly PLC panel.
- ▶ **Fully automatic operation:** DEWA Polymer Prep Units are fully automatic, streamlining operations and reducing maintenance costs.
- ▶ **Optimized polymer consumption:** Units optimize polymer consumption, minimizing waste and maximizing performance.

MODEL	A-P 1	A-P 2	A-P 3	A-P 4	A-P 5	A-P 7.5
Storage capacity (m <sup>3</sup> )	1.0	2.0	3.0	4.0	5.0	7.5
Preparation (m <sup>3</sup> /h)	0.8	1.8	2.8	3.8	4.8	7.3
Power (kW)	2.38	2.38	2.38	2.38	2.38	10.08
Length (mm)	1500	2100	2200	2200	2800	2400
Width (mm)	1000	1500	1500	2000	2000	2400
Height (mm)	2850	3200	3500	3600	4400	2700
Weight (kg)	450	550	800	950	1140	1600

Reach out to our knowledgeable experts for additional information and assistance with sizing.



# DEWA – Your dewatering specialist

Sludge thickening and dewatering is an important part of the water and wastewater treatment process. We want to help you with our full range of sludge treatment equipment that provide superior performance and reliability, user friendly features and efficient operation with minimum operational costs.

## DEWA dewatering equipment advantages

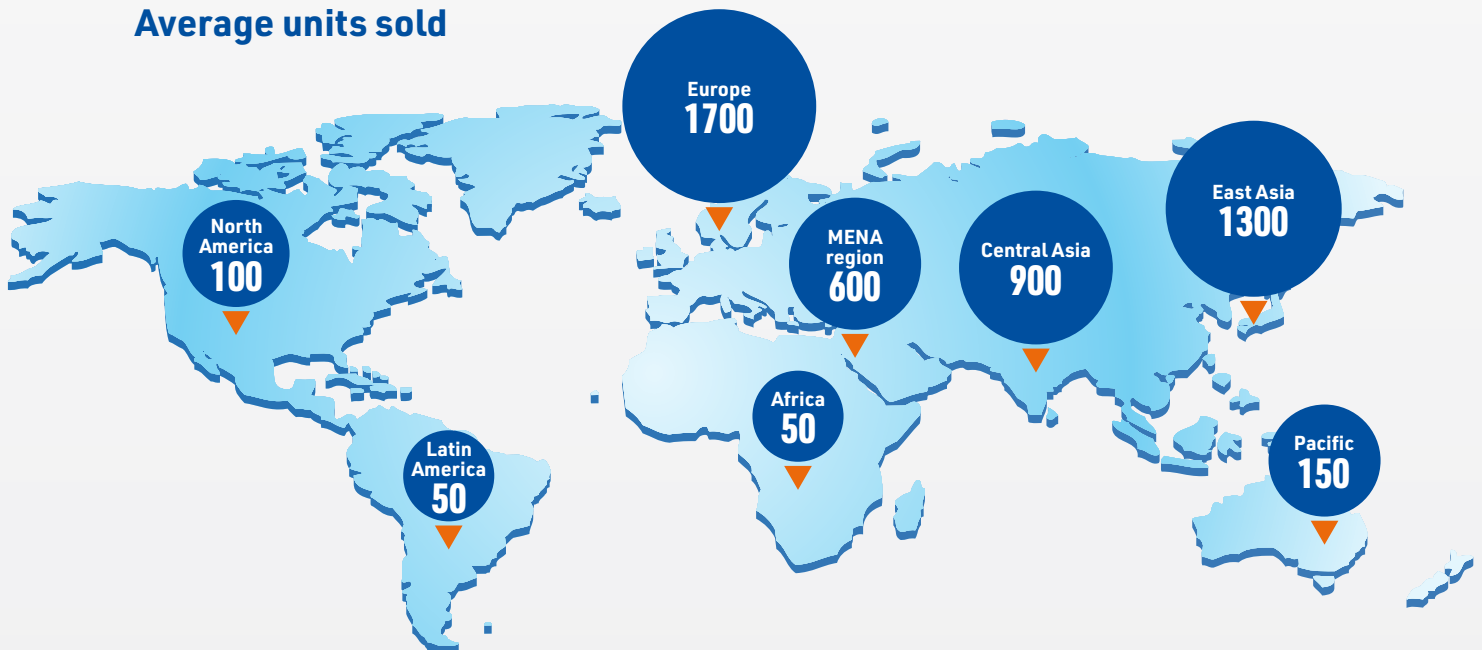
- ▶ Low energy consumption
- ▶ Lowest polymer dosage
- ▶ Easy to operate and maintain
- ▶ Most repairs can be made in a couple of hours
- ▶ Easy start up and shutdown
- ▶ Least expensive total life cycle cost
- ▶ Higher cake solids than rotary centrifuge for most sludge types

## Our clients and partners

Our equipment is trusted and used by municipal and industrial customers worldwide, from small private companies to leading international contractors.

- ▶ Global contractors
- ▶ Pulp & Paper
- ▶ Oil & Gas, Petrochemicals, Renewable Energy
- ▶ Food & Agriculture
- ▶ Municipalities

## Average units sold



CERTIFIED  
**ISO 9001**



CERTIFIED  
**ISO 14001**





تسارک ایتوان

تعمیراتی ایتوان

تلفن تماس: ۸۸۲۲۴۲۲۷ و ۸

Email: sales@brp.co.ir



We provide equipment and services globally.

Our systems are used in over 90 countries.

Please contact your local DEWA reseller when available.

You can easily find our local resellers and service providers, and your primary DEWA contact details on our website's sales page.

For more info visit our website at [www.dewaco.fi](http://www.dewaco.fi)

