



**PRIME**  
*SERVICES (PS)*



**PRIME**  
*SOLUTION*

EXCEED ORDINARY

## **SIMPLE. EFFECTIVE. PRIME.**

Prime Solution is known in the wastewater treatment market as one of the most reliable manufacturers that delivers superior performance and customer service.

With a humble start in a barn in the mid-west, Prime has evolved into a global leader in thickening and dewatering solutions with one mission: Design and manufacture operator-friendly, simple, yet effective, thickening and dewatering solutions that meet or exceed the needs and wants of our customers.

## **EXCEED ORDINARY**

Prime Solution has decades of experience in developing and delivering made-to-order thickening and dewatering solutions for customers. From design and engineering, to sales and customer service, Prime Solution excels in providing solutions for our customers.

## **KNOWN FOR OUR SERVICE**

At Prime Solution we pride ourselves on exceeding ordinary, striving to always provide our customers with superior service. This starts with the design and manufacturing of high performing thickening and dewatering equipment with minimal parts wear, and continues with highly skilled technicians and engineers who solve a multitude of challenges that customers face every day in the dewatering industry.

## **OFFERINGS**

- Service Maintenance Program
- On-site Support
- Equipment Upgrades
- Training

## **SERVICE MAINTENANCE PROGRAM**

Prime works with each customer to implement a tailored service program and solution, understanding each customer's specific needs.

### **Bi-annual or annual inspections are offered and include the following:**

- Overall assessment of equipment's performance utilizing the Prime Preventative Maintenance Check sheet
- Review of current operating and maintenance practices, providing tips for daily onsite preventative maintenance and practices. This is accomplished through informal and formal training programs
- Recommendation for optimal performance practices, or replacement at time of service



## **BENEFITS OF THE SERVICE MAINTENANCE PROGRAM INCLUDE**

- Inspection by experienced technicians who understand maintenance and continuous improvement of Prime's thickening and dewatering equipment
- Extended life of dewatering equipment
- Reduced risk of unplanned downtime
- Understanding of practices that result in savings and reduce wear and tear

## **ON-SITE SUPPORT PROGRAM**

Customers occasionally experience challenges relating to process due to changes in sludge, have questions about operating challenges of equipment, or just need a skilled technician on site to bring new staff up to speed.

Prime's technicians have worked with hundreds of customers on installations, preventative maintenance, trouble-shooting and upgrades. We treat each customer as a valued partner and look for solutions that are quick and cost effective.

## **BENEFITS OF THE ON-SITE SUPPORT PROGRAM**

- Understanding of changing conditions of sludge that may require adjustment of equipment.
- Quick analysis of repairs and high quality replacement parts
- Plan for future upgrades
- Operator training
- Inspection of new equipment
- Initial start-up

## **EQUIPMENT UPGRADES**

Prime Solution offers a variety of opportunities to upgrade your current dewatering equipment with the intent of expanding processing capabilities through increased volume or consistency of sludge.

Prime not only has the ability to add processing capabilities for the Rotary Fan Press, but through our In-Line thickener we can increase the processing capabilities for facilities with a variety of dewatering technologies.

Our technicians can work to upgrade to the Rotary Fan Press 2.0, the number of channels for processing, or can add an In-Line Thickener to help condition the sludge prior to dewatering.

## **BENEFITS**

- Low cost increased throughput capability
- Higher cake solids
- Minimal or no down-time





# THICKENING AND DEWATERING PERFORMANCE SIMPLIFIED

## DEWATERING

### PRIME ROTARY FAN PRESS® (RFP)

The only Rotary Fan Press with patented screen technology that uses simple pressure differential and friction resistance to provide superior dewatering performance at a lower cost and prolonged service life. The totally enclosed dewatering process has slow operation speeds of <1 rpm, minimal wear parts, produces high cakes solids and excellent filtrate. Low operational costs, minimal or no manpower required, and low energy and water use provide savings year after year. Models are available in several sizes ranging up to 260 gpm hydraulically, in a small footprint, and most models have the ability to accommodate additional channels for future increased throughput requirements.

### ROTARY FAN PRESS® 2.0

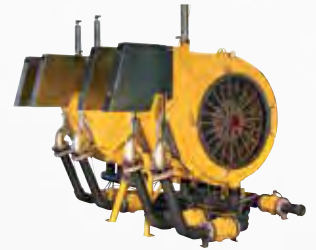
The Rotary Fan Press 2.0 provides all of the benefits as our original Rotary Fan Press with the addition of a patented internal mixing element. In the most difficult sludge conditions, the mixing element allows for channeling of the internal trapped moisture to be released as the solids are gently repositioned within the channel, allowing for the remaining moisture to be released through the filter screens.

### PRIME MOVING DISC SCREW PRESS® (MDS)

The Prime MDS uses the clog-free moving disc technology that allows for dewatering of a wide range of sludge/slurries, especially oily and greasy applications. The compact design is energy efficient, reduces washwater requirements and the contactless wear free structure reduces operational cost over other screw press technologies.

### PRIME IN-LINE PRESS® (INP)

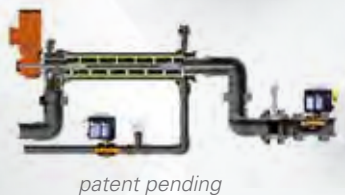
The Prime INP combines the technologies of pressure differential and screw pressure in an enclosed system. The simple compact design allows for many installation options from wall-mounting to being suspended over a sludge cake container, eliminating the need for any additional sludge cake conveyors. The INP can easily be used in series with our Prime INT for increased throughput.



## THICKENING

### PRIME IN-LINE THICKENER (INT)

The Prime In-line Thickener is Prime's newest leading Patent Pending technology for thickening of various sludge/slurries. Its ultra-advanced, simplified, space saving, totally enclosed design allows for precise continuous thickening with easy operator adjustable set points. The set points automatically adjust the amount of moisture to be removed from the feed by maintaining the pressure differential at a constant set point. The INT can be used as a stand alone thickener or in-line of a dewatering piece of equipment, reducing the hydraulic loadings. The modular design allows for additional elements to be added if greater future throughput is required.



## DEWATERING/THICKENING

### PRIME ELLIPTICAL DISC SCREEN (EDS)

The Prime EDS uses Patent Pending moving disc technology that not only thickens thin sludge/slurries but can dewater heavy laden non-biodegradable solids with the pressure plate option. The elliptical moving discs self clean the screen as they move the thickened solids. No belts to worry about as with a GBT and washwater is almost eliminated saving energy and retreating of washwater.



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