

# PUMPS & SYSTEMS

*The Leading Magazine for Pump Users Worldwide*

## MULTIPHASE ▶ PUMPING

Operators in North Africa & Canada increased BOPD & reduced wellhead equipment.



**TRADE SHOW PREVIEW  
HOUSTON'S OTC**

**KERR PUMPS  
FRAC ONE CONNECT  
FLUID ENDS**

# New & Notable Technology

*Products selected by the Pumps & Systems editors*

## 1 CHOPPER PUMPS

**CRANE PUMPS'** SITHE chopper pumps are the newest Barnes solution to highly demanding wastewater applications in the collection systems market. SITHE chopper pumps are available in standard and explosion proof models in 4-inch and 6-inch discharge sizes. SITHE chopper pumps have a patent pending chopping technology that slices even the most troublesome solids in waste streams. SITHE chopper pumps provide value like ease of servicing, ability to upgrade, high reliability and low life cycle cost.



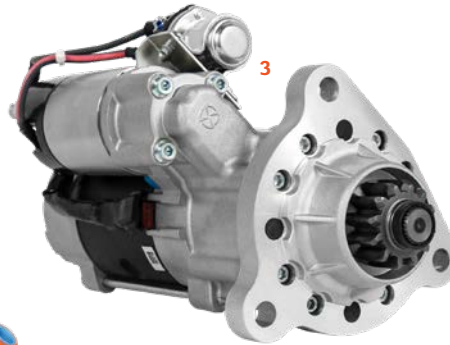
## 2 AODD PUMPS

The **IWAKI** Air TC-X400 Series pump offers excellent flow rates and a new heavy-duty body design. The pumps can operate with variable air pressures and are suited for both start/stop and fully continuous duty pumping applications. They can easily handle high pressure and long discharge lines. The maximum flow rate is 100.4 GPM. The maximum discharge head is 230 feet. It is available in glass-filled polypropylene or PVDF (Kynar). The spool valve type is coil spring air motor. The pump is CE certified.



## 3 STARTER MOTOR

**PRESTOLITE ELECTRIC** has launched the PowerPro 7.5, a 24-volt, 7.5-kilowatt starter motor as part of the PowerPro family of replacement starters from Leece-Neveville Heavy Duty Systems. The new in-line, gear reduction starter is designed for use in diesel engines up to 16L. PowerPro 7.5 high-torque, high-power starters are engineered to meet the needs of demanding heavy-duty, medium-duty, off-highway, agricultural and bus applications.



## 4 SCREENING TECHNOLOGY

**HAYER & BOECKER'S** F-Class offers three screen decks and features an advanced double-eccentric shaft design that's supported by four high-performance, double-spherical roller bearings. The F-Class helps maximize screening efficiency, as it is ideal for screening situations that require consistent, load independent performance at constant G-force in all operational modes. Machines experience minimal structural vibration, allowing multiple screens to be placed side by side in the same building.



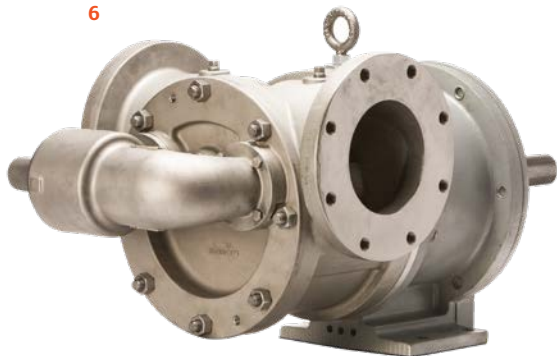
## 5 DISTANCE/LEVEL SENSOR

**HAWK MEASUREMENT SYSTEMS (HAWK)** announced the debut of the new OptioLaser distance/level sensor. The OptioLaser S200 can be used for blocked chute detection, barrier detection, machine detection, stockpile monitoring, and point level measurement. Providing reliable, accurate distance and level measurements across numerous industries, it incorporates a sophisticated infrared 905 nanometers time-of-flight laser technology. The OptioLaser S200 Series uses an infrared semiconductor, GaAs laser diode.



*To have a product considered for this section, please send the information to Savanna Gray, [sgray@cahabamedia.com](mailto:sgray@cahabamedia.com).*

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**6 INTERNAL GEAR PUMPS**

**ENVIROGEAR PUMPS**, part of PSG, a Dover company, announced that it is extending its line of E Series internal gear pumps with the availability of 4-inch (100 mm) and 6-inch (150 mm) sizes offering flows up to 500 gpm (1,893 L/min). Suitable for the most challenging and demanding transfer applications, these new E Series pumps are available in cast iron, carbon steel and stainless steel materials.

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**7 FLUID END**

**KERR PUMPS** FRAC ONE CONNECT Fluid End will bolt right up to existing stay rods with a more rigid flangeless design. It uses Super Stainless II, the strongest stainless steel ever used for a frac fluid end. It includes replaceable stuffing box sleeves with all seals embedded into the fluid end to prevent washouts. The seat is designed to protect the fluid end from valve seat deck washouts. Users have access to optional tungsten carbide seats at no additional cost. FRAC ONE also includes bolt on suction and discharge retainer caps to prevent thread cracking.

8



**8 PERMANENT MAGNET MOTOR SYSTEM**

**FRANKLIN ELECTRIC CO. INC.** now offers the 6-inch MagForce™ Permanent Magnet Motor System as an ultra-efficient, high-performance alternative to a standard induction motor and control. End users benefit from significant electrical cost savings via a motor efficiency improvement of 10 to 12 percent, providing a typical investment payback of less than one year in long- or continuous-run applications. The MagForce Permanent Magnet Motor System features a rugged SandFighter motor and optimized drive package to provide high efficiencies at constant horsepower.

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**9 DEWATERING PUMPS**

**ATLAS COPCO CONSTRUCTION EQUIPMENT NORTH AMERICA** has expanded its offering for the dewatering market with the launch of over 30 new heavy-duty, high-capacity pumps. This includes the addition of three high-flow models to its PAS range of centrifugal dry prime pumps. The new pumps are capable of accommodating flows of up to 1,400 cubic meters per hour. Atlas Copco's offering for the dewatering market is comprised of highly efficient wet and dry prime centrifugal pumps for construction, drainage and emergency applications, plus specialized models for wellpoint applications and pumping abrasive liquids and bentonite mud.

# FRAC ONE CONNECT

## SUPER STAINLESS II

*The strongest and toughest stainless steel ever used in a frac fluid end.*

## CONNECT PLATE

*Connects right up to your existing stay rods with a stronger connection. Removing the flange reduces flexing of the fluid end by 420%.*

## DISCHARGE SEAL BORE

*Patent-Pending Super Seal - embedded in the fluid end - Transfers the Wear to the discharge plug.*

## SUPER SEATS

*Patent-Pending tungsten carbide valve seats last up to 10X the life.*

## PACKING SEAL BORE

*Patent-Pending Super Seal - embedded in the fluid end - Transfers The Wear and wash to the outside of the sleeve.*

## STUFFING BOX SLEEVE

*Patent-Pending design protects fluid end from washouts and washboarding.*

## IMPROVED GEOMETRY

*Precision Machined, Repeatable Geometries for Optimized Performance*

## SUCTION SEAL BORE

*Patent-Pending Super Seal - embedded in the fluid end - Transfers The Wear to the suction plugs.*

## FASTER ACCESS

*Patent-Pending Frac One system torques each cylinder out of cyclic stress. Eliminates thread cracking of the fluid end. Safer to operate by eliminating the need for sledge hammers or hammer wrenches.*

