

TWINKLE CO



DREDGES AND DREDGING EQUIPMENT

Rugged. Simple. Efficient.

Twinkle Co dredges and dredging equipment accomplish productive and efficient dredge operation by moving a high-density mixture through the discharge pipe at the target velocity without interruption. For over 40 years, this single focus and a rich history of providing unique products and solutions has established us as the innovative leader in the industry.

Twinkle Co dredges are designed and built for one purpose — efficient sand and gravel production.

E-SERIES DREDGES



Mining dredges for the global market with pump discharge sizes from 8" to 16"

- The ideal choice for dredge customers around the globe
- Designed to be transported via shipping container without compromising durability and usability
- Maintenance friendly, efficient, productive and easy to transport

H-SERIES DREDGES



Shallow to medium depth mining dredges with pump discharge sizes from 8" to 16"

- OpenDeck design allows for easy maintenance and eliminates the open hull
- Offset cab location offers excellent visibility and isolation from noise and vibration
- Available with either a rotary or linear cutter, diesel or electric power

L-SERIES DREDGES



Deep depth mining dredges with pump discharge sizes from 8" to 16"

- Dredging depths up to 200'
- Instruments and controls optimized to deliver a continuous supply of high-density solids to the process plant
- Available with either a rotary or linear cutter, diesel or electric power

Dredging Law VII: The suction inlet must be fitted with an effective digging device to create ample pumpable solids.

ROTARY CUTTER BASKETS

Our rotary cutter baskets are designed and built for sand and gravel dredge mining. They are available in three basic styles, the WADCUTTER slicing basket, the WARTHOG screening basket, and the CLAYMATOR screening basket. All of our baskets feature individual and easily replaceable teeth.

WADCUTTER Uni-directional rotary cutter slicing basket for deposits with clay seams.



- WADCUTTER-S for deposits with clay and other difficult digging conditions that require a more aggressive cutter
- WADCUTTER-B for deposits with fine sands and clay with no oversize material

WARTHOG Bi-directional rotary cutter screening basket for free-caving deposits with little or no clay.



- Basket openings sized to match the particle clearance of the dredge pump
- Loosens and screens material
- Unique design retains oversize material on the outside of the basket where it can be scrubbed off as the basket rotates

CLAYMATOR Bi-directional rotary cutter screening basket for deposits with clay seams.



- Unique design “screens and cleans” as it rotates
- Openings are designed and arranged to reject oversize material and scrub away clay

CLAYMATOR Heavy Metal Bi-directional rotary cutter screening basket for deposits with clay seams.



- Combines “screen and clean” features of the CLAYMATOR with a protective layer of carbide
- Carbide studs extend basket’s working life up to 3 times vs conventional hard surfacing

LINEAR CUTTERS



When the going gets tough, a rotary cutter cannot always go. Oversize material will frustrate a rotary cutter, hinder production, limit your mining depth, and increase your cost per ton.

When oversize material hinders a rotary cutter, a linear (chain) cutter is the solution. Chains are a time proven solution for dredging in free-caving deposits with oversize material.

If you have a dredge, we have something you need

AUTOMATION AND CONTROL SYSTEMS

We offer a variety of automation systems to improve your dredge.



CONVAC Our modulating suction-side production system is often imitated, but nothing else even comes close

LCAP System Automation package for linear cutters

BIPCON System Booster pump inlet pressure control

VEECON System Automatic pipeline velocity control

INSTRUMENTS

Designed to increase the efficiency of the dredging system and reduce the workload of the operator. Reliable, accurate, repairable, and affordable. Can be installed on our own and other dredges.



LADDERVAC Inlet pressure system for ladderpump dredges
The industry standard since 1985

Velocity Meter An essential instrument for dredging
Over 500 successful installations

DREDGEMAG Magnetic flow meter
Essential for precise control of dredge system flow rate

HEADHAWK Oil head pressure measurement system
Essential for monitoring and protecting oil filled housings

HOWDEEP Electronic depth gauge system
Accurate and reliable with no moving parts and simple installation

COMPONENTS

We offer a broad range of constantly evolving components that are durable and easy to repair. Custom design is available; we welcome the opportunity to develop products that will solve your challenges.



MOAB Sheave Blocks Heavy duty sheave blocks for dredge positioning.
Sizes for 3/8" to 1-1/2" cable.

BRUTE Blocks Rugged duty cable blocks for dredge ladder hoisting.
Sizes for 1/2" to 1-1/2" cable.

SUCKERUPPER Pump well cleanout system for hullpump dredges.
The only moving part is water.

Pipeline Components including HDPE pipe, dredge sleeves, chain clamps, and chain clamp sockets.

Dredge System Components including winches, pump drives, pinch to prime, water pumps, gauges, hydraulic components, and service cranes.