



Smith & Loveless Inc.  
Above All Others.

# PISTA® DURALYTE®



## The PISTA® DURALYTE® 500 GPM (32 lps) Grit Concentrator

The new Smith & Loveless PISTA® DURALYTE® Grit Concentrator combines uncompromising strength and acclaim for superior grit concentrator performance. Specially-designed for large flow applications, the PISTA® DURALYTE® effectively washes collected grit while delivering extended service life beyond standard concentrator designs. The top section is constructed of Ni-Hard, with a minimum thickness of 3/4" (1.9 cm) in high wear areas. The bottom section features a minimum of 3/4" (1.9 cm) thickness of a proprietary polyurethane blend molded with a proprietary blend of silicon carbide (minimum of 1/2" (1.3 cm) thickness) in the high wear area of the bottom portion of the cone. Additionally, a large underflow opening of 3.75" (9.5 cm) minimizes clogging. The inlet connection is 4-1/2" (11.4 cm) outside diameter. This 2-piece material combination is designed to better withstand the abrasive action common with high grit loads. More durable than hard iron designs and longer lasting than models with wearing liners, the PISTA® DURALYTE® makes cone handling simple because of the lightweight material.



*The new, two-piece PISTA® DURALYTE®, with its easy-to-remove cone bottom, achieves superior grit concentrator performance and extended service life.*

The PISTA® DURALYTE® effectively functions as a primary grit washing and dewatering device, separating the pumped flow into basic components of water, organics and grit. Working in concert with the PISTA® Grit Screw Conveyor or the PISTA® TURBO™ Grit Washer, which it is positioned over and discharges into, the PISTA® DURALYTE® Grit Concentrator's overall performance achieves greater than 95 percent removal of the residual organic material.

### Product Features

### PISTA® DURALYTE® Grit Concentrator

### Others

2-Piece Construction: Ni-Hard Top Section with Proprietary PISTA® DURALYTE® Bottom Cone	YES	NO
Ni-Hard Top is 3/4" (1.9 cm) Min. Thickness while Bottom Cone is 3/4" (1.9 cm) Thickness in High Wear Areas	YES	NO
Large 3-3/4" Diameter (9.5 cm) Discharge Orifice to Minimize Clogging	YES	NO
Greater than 95% of Residual Organic Material Flows out the Top, Returned to Inlet Channel	YES	YES
Less than 5% Putrescible Material in Underflow	YES	NO
Lower Cone Removable Without Disconnecting Piping	YES	YES
Long Lasting, Reducing Downtime: Bottom Cone is Made from Abrasion Resistant Material	YES	NO
Replacement Liners Made from Less Abrasion-Resistant Materials (Neoprene, Gum Rubber, Nitrile)	NO	YES
Maintenance Friendly: Light Weight Bottom Cone can be Changed Out by 1 Person	YES	NO
500 GPM (32 lps) Capacity	YES	YES

## What is DURALYTE®?

DURALYTE® is an extremely durable and lightweight manufactured material, categorized as a polymer based upon its chemical structure.

This scientifically-formulated, proprietary polymer is specifically designed with an embedded silicon carbide insert for the PISTA® DURALYTE® Grit Concentrator cone. This exclusive compound is resistant to abrasion, cracking, tearing, heavy loads, high impact, and harsh environments like those in wastewater treatment facilities and industrial plants.

## How Does DURALYTE™ Compare to Other Materials?

### DURALYTE® vs. Rubber, including Neoprene, Nitrile, Chlorobutyl and EPDM

- More Abrasion-Resistant
- Cut & Tear-Resistant
- Superior Load Bearing Capacity
- Broader Hardness Range
- Casting Yields Greater Durability

### DURALYTE® vs. Plastic

- Higher Impact-Resistant
- More Abrasion-Resistant
- Broader Hardness Range
- Resilient Unlike Plastic
- More Resistant to Low Temperatures

### DURALYTE® vs. Cast Iron, Carbon Steel and Alloys

- Much Lighter Weight
- More Abrasion-Resistant
- Corrosion-Resistant Unlike Metal
- Resilient Unlike Metal
- More Impact-Resistant
- Non-Sparking / Non-Conductive Unlike Metal

## Why Did Smith & Loveless Choose DURALYTE®?

The mining industry works with extreme compound slurry concentrations — significantly more abrasive than wastewater grit slurries — and therefore, must identify and select the most dependable and abrasive resistant materials available. We consulted with industry experts for their inside knowledge of dependable materials that will best resist long-term abrasion. With the information we gained from the mining industry, Smith & Loveless selected scientifically formulated, proprietary materials that would be cost-effective and yet offer the dependability and abrasion-resistance needed for handling the grit slurry in a wastewater treatment facility. DURALYTE® is the material of choice.



*The new PISTA® DURALYTE® with its proprietary cone bottom delivers superior grit concentrator performance. Achieving greater than 95 percent removal of residual organic material (up to 500 GPM/32 lps), the two-piece PISTA® DURALYTE® also significantly minimizes wear from heavy grit loads, which delivers extended service life, and makes handling easy.*

Represented by: