

The Durable PISTA® Grit Concentrator (250 GPM/15.8 LPS)

The Smith & Loveless PISTA® Grit Concentrator combines uncompromising strength and durability for superior grit concentrator performance. Specially-designed for small flow applications, the PISTA® Grit Concentrator effectively washes collected grit while delivering extended service life beyond standard concentrator designs. Constructed of Ni-Hard, with a minimum thickness of 1.25" (3.2 cm) in high wear areas, it features a large discharge orifice (3.5" or 8.9 cm) to minimize clogging.

The **PISTA**® Grit Concentrator functions as a primary grit washing and dewatering device, separating the pumped flow into the basic components of water, organics and grit. Working in concert with the **PISTA**® Grit Screw Conveyor, the **PISTA**® Grit Concentrator sits snugly above it. The **PISTA**® Grit Concentrator's overall performance achieves greater than 95 percent removal of the residual organic material.

Features & Benefits -

- Large discharge orifice minimizes clogging
- Specifically designed for small flow applications
- No wearing parts or liners makes maintenance easy

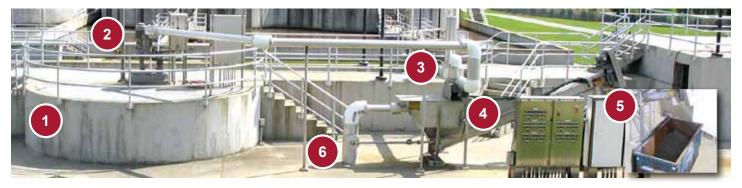


PISTA® Grit Product Features Concentrator 250 GPM (15.8 LPS) Others

Ni-Hard Cast Construction with 1.25" (3.2 cm) Min. Thickness in High Wear Areas	≠	
Fabricated & Cast Carbon Steel Housing		1
Involuted Feed Entry	≠	1
Large 3.5" (8.9 cm) Diameter Discharge Orifice to Minimize Clogging	≠	
Longer Lasting, Minimizing Downtime	✓	
Wearing Liners Requiring Routine Replacement		4
250 GPM (15.8 LPS) Capacity	*	4



Complete Grit Removal, Handling & Dewatering System Flow Scheme



For maximum grit removal, the PISTA® Grit Chamber should be complemented with Smith & Loveless PISTA® grit handling and dewatering components, which transport, dewater and prepare the grit for final disposal. These components can be retrofitted to increase the efficiency of your grit handling system originally equipped with older components or non-Smith & Loveless accessories.

Smith & Loveless' commitment to market leadership in grit removal kindles on-going research and development, which leads to continued system and component innovations. See the timeline below for just some of the key PISTA® system design milestones.

Unparalleled Innovation For 30+ Years

- 1973 PISTA® Grit Removal System (270°)
- 1974 PISTA® Grit Screw Conveyor
- 1981 50 MGD (2,191 LPS) PISTA® Grit Chamber
- 1982 PISTA® TURBO™ Grit Pump (4" or 10.2 cm)
- 1982 175 GPM (11 LPS) PISTA® Grit Concentrator
- 1984 70 MGD (3,067 LPS) PISTA® Grit Chamber
- 1988 360° PISTA® In-Line Design
- 1988 250 GPM (15.8 LPS) PISTA® Grit Concentrator
- 1989 Parallel Plate PISTA® Grit Screw Conveyor
- 1992 PISTA® Grit Fluidizer
- 1992 4" (10.2 cm) **PISTA**® **TURBO**™ Grit Pump
- 1998 6" (15.2 cm) **PISTA**® **TURBO**™ Grit Pump
- 1998 500 GPM (31.8 LPS) PISTA® Grit Concentrator
- 1999 100 MGD (4,381 LPS) PISTA® Grit Chamber
- 2004 PISTA® Grit Flow Control Baffle
- 2006 PISTA® Debris Deflector
- 2009 500 GPM (31.8 LPS) PISTA® DURALYTE® Grit Concentrator
- 2009 PISTA® TURBO™ Grit Washer with TRI-CLEANSE TECHNOLOGY™
- 2009 PISTA® 360™ Grit Chamber with V-FORCE BAFFLE™
- 2009 SONIC START® STREAMLINE™ for PISTA®
- 2010 PISTA®Works™
- 2011 PISTA® PRO-PAK™

PISTA® Grit Removal System Components & Scheme

- PISTA® Grit Chamber Influent enters flat-floor grit chamber hydraulically guided by coanda ramp, internal baffles and central, low-speed propeller. Forced vortex drives grit particles to center chamber floor and into lower grit hopper while organics and flow continue to plant.
- PISTA® TURBO™ Grit Pump Top-Mounted or Remote-Mounted unit pumps collected grit slurry (kept fluid by the PISTA® Grit Fluidizer) to the PISTA®'s second-stage grit washing and dewatering system while also providing proper head.
- PISTA® Grit Concentrator Specifically engineered for the PISTA® system, this abrasion-resistant Ni-Hard unit washes grit further.
- PISTA® Grit Screw Conveyor Grit from the concentrator deposits into the parallel (lamella) plate section of the S&L dewatering screw conveyor, which aids in retaining finer grit and reducing the stream's turbulence and overflow rate.
- Dewatered Grit Discharges from the top of the inclined PISTA® Grit Screw Conveyor into a container for disposal.
- The Flow and any Residual Organics are Returned to the inlet channel prior to the grit chamber, typically 93% of flow and 95% of organics.