

Transpumpserv Global Pvt. Ltd.

GritFlow (TgritX) – Heavy-Duty Slurry & Ash Handling Pumps

Description

GritFlow (TgritX) is a robust and heavy-duty slurry pump engineered for the toughest abrasive applications, including ash handling, mineral processing, and slurry transfer. With rugged construction, wear-resistant materials, and hydraulic designs optimized for solids handling, GritFlow ensures long service life, high efficiency, and reliable performance in demanding industries such as steel, power, and mining.

Its modular construction and replaceable wear components minimize downtime and reduce operating costs, making it an ideal solution for handling abrasive and corrosive slurries.

Key Design Features

- Heavy-duty design for slurry and abrasive handling
- Designed in compliance with ISO 5199 standards
- Large, open impeller passages for solids handling
- Replaceable wear liners (rubber, high-chrome, or polyurethane)
- Heavy-duty bearing housing for increased reliability
- Back-Pull-Out construction for simplified maintenance
- Optimized hydraulic profiles for high efficiency with abrasive media
- Optional shaft sealing arrangements (mechanical seal, gland packing, expeller seal)

Seal and Shaft Technology

- Mechanical seal options: single, double, and cartridge
- Expeller seal option for abrasive slurry handling
- Gland packing with flushing arrangement available
- Heavy-duty shaft with low L/D ratio for reduced deflection
- Shaft sleeves for wear protection in abrasive service

Bearings and Certifications

- Large diameter bearings for long service in severe duty
- Grease or oil bath lubrication available
- API 610 / ISO 5199 compliance (on request)
- ATEX certification available for explosive atmospheres

Suitable Applications

- Steel Plants – furnace slag, mill scale slurry, ash handling
- Power Plants – bottom ash, fly ash slurry transfer
- Mineral Processing – ore slurry, tailings, thickener underflow
- Mining & Quarrying – sand, gravel, and abrasive slurry handling
- General Slurry Transfer – corrosive and abrasive fluids in process industries

Technical Specifications

Casing Materials	High-Chrome Iron, Rubber-Lined, Stainless Steel options
Impeller Materials	High-Chrome Iron, Rubber, Polyurethane, Stainless Steel
Max. Capacity	Up to 3,000 m ³ /h
Max. Head	Up to 70 m
Max. Particle Size	Up to 150 mm (depending on model)
Max. Temperature	Up to 120°C
Max. Operating Pressure	Up to 10 bar
Max. Speed	Up to 1,800 rpm

Downloads & Resources

- Technical Data Sheet
- Installation & Operation Manual
- Material Selection Guide (Rubber vs. High-Chrome vs. Polyurethane)
- 3D Pump Drawings (on request)