

HORIZONTAL SLURRY PUMP

Abrasive Slurry Pump

Single-stage centrifugal pumping technology for abrasive, particle-laden and moderately corrosive process media.



FLOW ENVELOPE

10-60 m³/h

HEAD ENVELOPE

20-120 m

DRIVE POWER

3-45 kW

PROCESS TEMP.

-20 °C to +120 °C

OPERATING ENVELOPE & CONSTRUCTION

Pump Configuration	Single-stage, single-suction horizontal centrifugal
Nominal Flow Rate	10-60 m ³ /h
Differential Head	20-120 m
Motor Power	3-45 kW
Rated Rotational Speed	2,900 r/min
Standard Medium Temperature	-20 °C to +120 °C
High-temperature Configuration	Up to +180 °C, subject to complete assembly review
Recommended Particle Size	0.3-1.0 mm typical
Dimensional Basis	ISO 2858 principles
Conformity Basis	Developed for applicable CE safety and conformity requirements
Integration Option	UHB-type installations, subject to dimensional and duty verification

APPLICATION-SELECTED METALLURGY

AISI 304	General industrial liquids and low-to-moderate corrosion without significant chloride exposure
AISI 316	Improved resistance for chloride-bearing and chemically aggressive industrial fluids
AISI 316L	Low-carbon grade for welded-component resistance to sensitization and corrosion
Duplex 2205	High strength with pitting, crevice-corrosion and chloride SCC resistance
Super Duplex 2507	Severe chloride exposure and highly aggressive service

ENGINEERED AROUND WEAR

01 / IMPACT

Metallic wetted construction resists particle strike at high-energy surfaces.

02 / SLIDING ABRASION

Controlled passages support particle transport with reduced local recirculation.

03 / CORROSION

Stainless, duplex and super-duplex options match process chemistry.

04 / HYDRAULIC STABILITY

Duty-point selection limits vibration, uneven wear and solids accumulation.

TYPICAL SERVICE

Mining and mineral beneficiation

Metallurgical and fine-ore slurry transfer

Industrial wastewater and abrasive effluent

Chemical and petrochemical processing

Acidic, alkaline and chloride-bearing process liquids

Filtration and separation systems

Process-tank circulation

High-temperature industrial-fluid transfer

SELECTION IS APPLICATION-SPECIFIC

Published ranges define the product envelope, not a guaranteed duty point. Confirm slurry density, viscosity, solids concentration, particle characteristics, NPSHa and system resistance.

DATA REQUIRED FOR SELECTION

HYDRAULIC DUTY	SLURRY PROFILE	CHEMISTRY
TEMPERATURE	OPERATING PROFILE	MECHANICAL / SITE