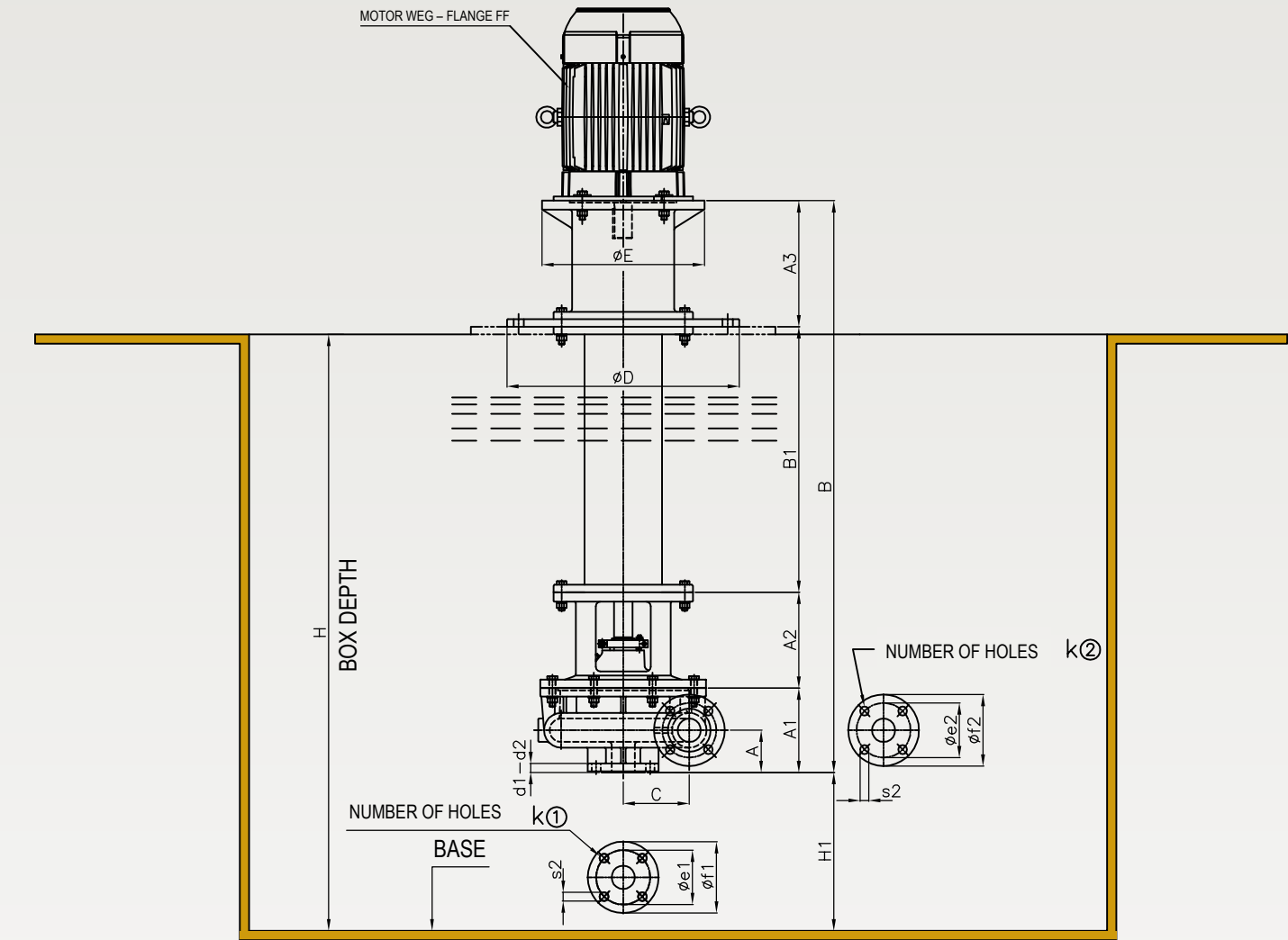


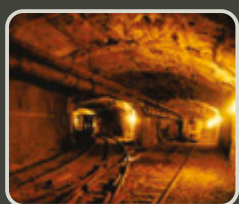
MODELS	MAIN DIMENSIONS												FLANGES																	
		A	A1	A2	A3	B	B1	C	D	E	H	H1	ANSI	①	d1	øe1	øf1	øs1	k	②	d2	øe2	øf2	øs2	k					
JPV 2x2x8,5	90	180	204	269	1219	566	120	500	350	1200	266	ANSI	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4
JPV 2x2x8,5	90	180	204	269	2429	1760	120	500	350	2400	256	ANSI	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4
JPV 2x2x10	90	180	204	269	1219	566	142	500	350	1200	266	ANSI	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4
JPV 2x2x10	90	180	204	269	2429	1760	142	500	350	2400	256	ANSI	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4	2"	19	120.6	152.4	19	4
JPV 3x3x8.5	102	204	204	269	1243	566	120	500	350	1200	242	ANSI	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4
JPV 3x3x8.5	102	204	204	269	2453	1760	120	500	350	2400	232	ANSI	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4
JPV 3x3x10	102	204	204	269	1243	566	142	500	350	1200	242	ANSI	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4
JPV 3x3x10	102	204	204	269	2453	1760	142	500	350	2400	232	ANSI	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4	3"	24	152.4	190.5	19	4
JPV 4x4x11	127	254	256	289	1365	566	165	550	400	1350	262	ANSI	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8
JPV 4x4x11	127	254	256	289	2805	1760	165	550	400	2500	246	ANSI	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8
JPV 4x4x14	127	254	256	289	1365	566	197	550	400	1350	262	ANSI	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8
JPV 4x4x14	127	254	256	289	2805	1760	197	550	400	2500	246	ANSI	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8	4"	24	190.5	228.6	19	8
JPV 6x4x14	127	254	256	289	1365	566	197	550	400	1350	262	ANSI	6"	25	241.3	279.4	22	8	6"	25	241.3	279.4	22	8	6"	25	241.3	279.4	22	8
JPV 6x4x14	127	254	256	289	2805	1760	197	550	400	2500	246	ANSI	6"	25	241.3	279.4	22	8	6"	25	241.3	279.4	22	8	6"	25	241.3	279.4	22	8
JPV 8x6x14	127	254	256	289	1365	566	197	550	400	1350	262	ANSI	8"	29	298.4	342.9	22	8	8"	29	298.4	342.9	22	8	8"	29	298.4	342.9	22	8
JPV 8x6x14	127	254	256	289	2805	1760	197	550	400	2500	246	ANSI	8"	29	298.4	342.9	22	8	8"	29	298.4	342.9	22	8	8"	29	298.4	342.9	22	8



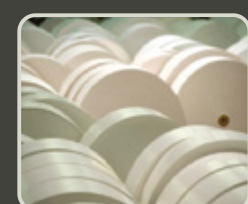
APPLICATION SEGMENTS



SUGAR AND ETHANOL



MINING



PULP AND PAPER



CHEMICAL



BIOENERGY



FOOD



VERTICAL SEMI-SUBMERSIBLE CENTRIFUGAL PUMP | Series: SMART SPIN

An intelligent solution for simple and effective operation



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JAGUAR VERTICAL PUMP

Recessed Impeller Centrifugal Pump (Vortex Type)

SMART PIN SERIES

The JAGUAR Vertical Centrifugal Vortex Pump is specifically designed for handling abrasive slurries and liquids with high solids content. This equipment offers significant advantages due to its vortex design, which features a recessed impeller with a concave geometry. This configuration allows abrasive-laden fluids to flow through the volute interior without causing blockages or premature wear on internal components.

Flow rates range from 5 to 600 m³/h, with a maximum head of 45 m, ensuring high performance and operational reliability across a broad spectrum of temperature conditions.

Key Benefits

- 1 - High-capacity pumping of abrasive slurries and solids without clogging.
- 2 - Cost savings by eliminating the need for a traditional pump house.
- 3 - Efficient handling of fluids with up to 35% solids content.
- 4 - No priming required.
- 5 - Simplified installation—no suction piping needed.
- 6 - Capable of operating in wells up to 6 meters deep.



INNOVATION IN PUMP TECHNOLOGY

APPLICATIONS

- Boiler blowdown water
- Seawater
- Reservoir water
- River water
- Wastewater
- Sludges, chips, and slurries
- Raw/Screened sewage
- Sedimentation ponds
- Leachate
- Mineral slurry
- Cellulose pulp
- Vinasse

Available Construction Alloys

- Ni-Hard
- Duplex
- Super Duplex
- Inconel 600, 617, and 625
- Hastelloy-X

Distinctive Features

One of the critical challenges of vertical centrifugal pumps lies in the extended drive shafts required to operate at varying well depths. These conditions often result in shaft misalignment, imbalance, and eventual shear failure.

JAGUAR SPECIAL PUMPS has engineered a modular shaft system, composed of individually balanced and aligned sections, connected via universally jointed couplings—each precisely aligned and balanced. The shaft assembly is supported by sealed bearing housings, with the final section featuring a mechanical seal cooled with clean water, housed in a specially designed enclosure to prevent fluid contamination from the well environment.

The pump is driven by a flanged motor mounted to a bearing pedestal, transmitting rotation efficiently along the entire shaft assembly.

This configuration ensures robustness, durability, and operational efficiency, hallmark traits of the **JAGUAR Smart Spin Vertical Pump Series**.

Ni-Hard Alloy

Silica sand — composed primarily of silicon dioxide (SiO₂) — in particle sizes ranging from 0.063 mm to 2 mm, is among the most aggressive solids encountered in slurry pumping applications.

To address this challenge, the SMART SPIN series utilizes Ni-Hard, a metallic alloy with high abrasion resistance, which significantly extends the pump's service life by offering equal or superior toughness compared to conventional materials.

This performance advantage sets the SMART SPIN Series apart from traditional recessed impeller centrifugal pumps, demonstrating its suitability for highly abrasive duties.

PROJECT SPECIALLY DEVELOPED FOR PUMPING ABRASIVE SLURRIES WITH HIGH SOLIDS CONTENT