

## Horizontal Centrifugal Pump

### Use

- ABRA pumps (horizontal execution) are expressly designed for pumping liquids containing suspended abrasive solids, such as thickened sludge, glaze, cement, metals and sand
- Due to the specific construction characteristics and to the selected materials, these pumps are very reliable, extremely wear-resistant and easy to maintain. Horizontal pumps in various sizes (30, 40, 50, 60, 100 and 150) must operate under suction head and may be supplied with front or side suction

### Main Characteristics

- Compact motor design, above the pumps, with belt drive.
- Direct drive motor for single body pumps
- Cast iron pump housing with internal, high-thickness, anti-abrasive rubber coating (removable type)
- Impeller with steel core entirely coated in high-thickness, anti-abrasive rubber (open type)
- Retaining device with double mechanical seal in tungsten carbide or silicon, including water flushing
- Casing, guards and safety devices compliant with the EN 60204-1 EC standard and subsequent integrations

### Main Applications

- Sludge filter press feeding
- Water purification plants
- Natural and engineered stone slurry
- Glaze and slip slurry
- Cement water slurry
- Industrial water recycling

### Physical/Operating Characteristics

Model	Flow		*Delivery head		Power
	gallon/ min	liter/ min	psi	m H2O	kW
30	26 - 106	100 - 400	4.3 - 11.4	3 - 8	2.2 - 4
40	79 - 251	300 - 950	7.1 - 17.1	5 - 12	3 - 5.5
50	132 - 370	500 - 1,400	11.4 - 28.5	8 - 20	5.5 - 7.5
60	264 - 476	1,000 - 1,800	19.9 - 34.1	14 - 24	11 - 18.5
100	449 - 1,321	1,700 - 5,000	25.6 - 28.5	18 - 20	18.5 - 37
150	449 - 1,849	5,000 - 7,000	25.6 - 37	18 - 26	37 - 45

\*Available at higher pressure for filter press feeding