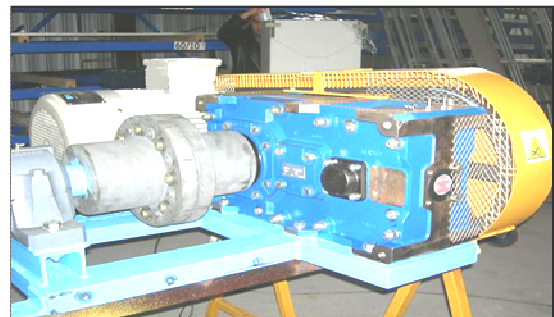


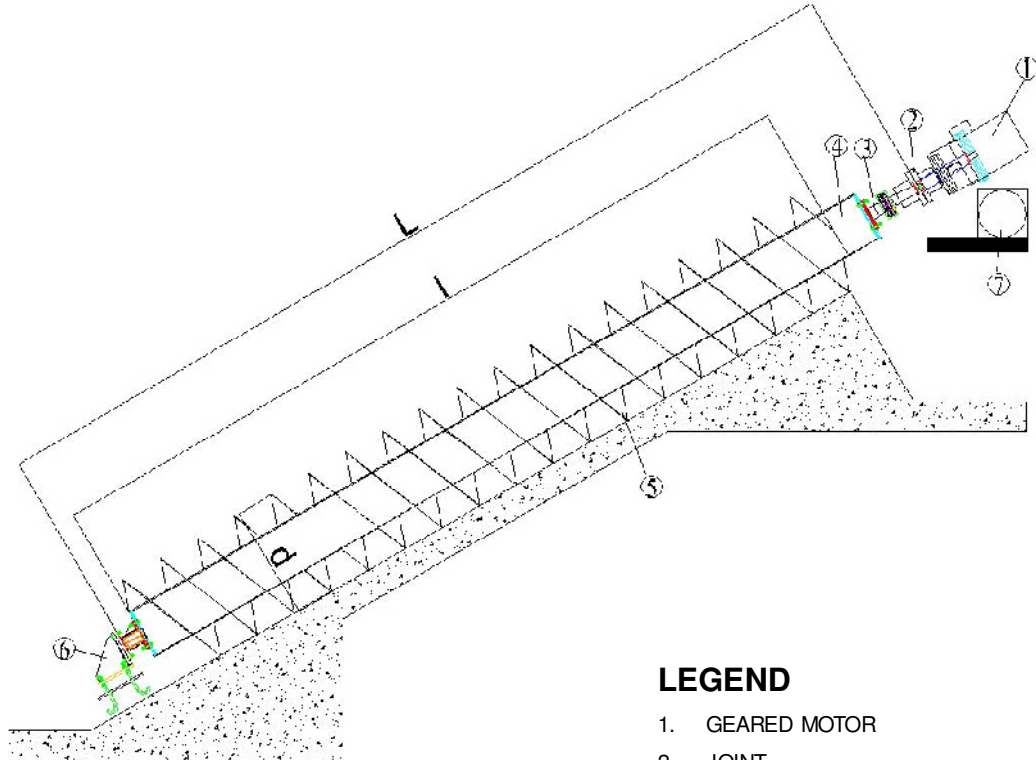
## ARCHIMEDEAN SCREW PUMP

### GENERAL CHARACTERISTICS

The PVA Archimedean screw pump lifts water and sludge in civil and industrial waste water treatment plants. Its salient features are: big flow clearance, perfect for lifting water containing sludge, and automatic flow control which occurs automatically according to the height of water in the loading well; and, not least, excellent hydraulic efficiency. The screw consists of a very thick central shaft around which the turns are wound; in its standard configuration the screw is triple-flight. The whole is supported by two special bearings, one at each end, that release the radial and axial forces. During operation, deflection is minimized by the considerable flexural stiffness of the screw. There is an elastic joint at the top for connecting to the control gear motor, which consists of an electric motor and gearbox driven by pulleys and V belts. The lower support can ensure constant rotation of the screw and correct lubrication of the moving components thanks to suitable mechanical seals. There is also steel splash protection tile that maximizes the hydraulic efficiency of the pump. The screw is tilted at a standard angle of  $30^\circ$ , or at a different angle on request. The standard version is made of carbon steel with hot dip galvanization or polyurethane coating. It can also be made of stainless steel on request.



## ARCHIMEDEAN SCREW PUMP

**LEGEND**

1. GEARED MOTOR
2. JOINT
3. TOP SUPPORT
4. SHAFT
5. SPIRAL
6. BOTTOM SUPPORT
7. GREASE PUMP

Main Features	UNIT	Dimensions							
Diameter screw (d)	mm	400	800	900	1200	1600	2000	2400	4000
Flow	mc/h	74	380	705	975	2000	3250	5000	16000
Prevalence (h1)	m	3,6	3,6	4,5	4	4,5	5	5	6
Length screw (l)	m	6,1	6,5	7	7,65	8,9	10	10,45	14
Overll length	mm	7,5	8	8,7	9,44	11,5	13	13,5	18,5
Weight	daN	990	1770	2090	3420	6000	10300	14100	42500
Installed power	kW	2,5	5,5	18	18	36	76	110	400

The company reserves the right to make modification and improvements without prior notice.