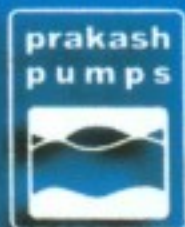
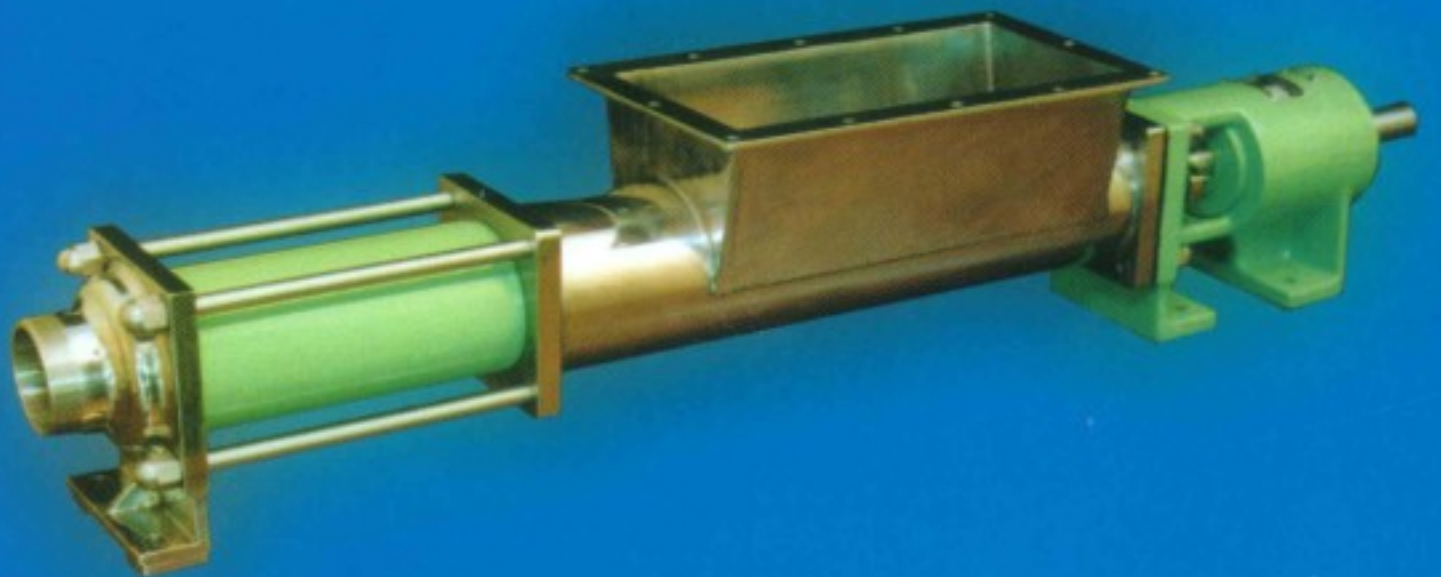
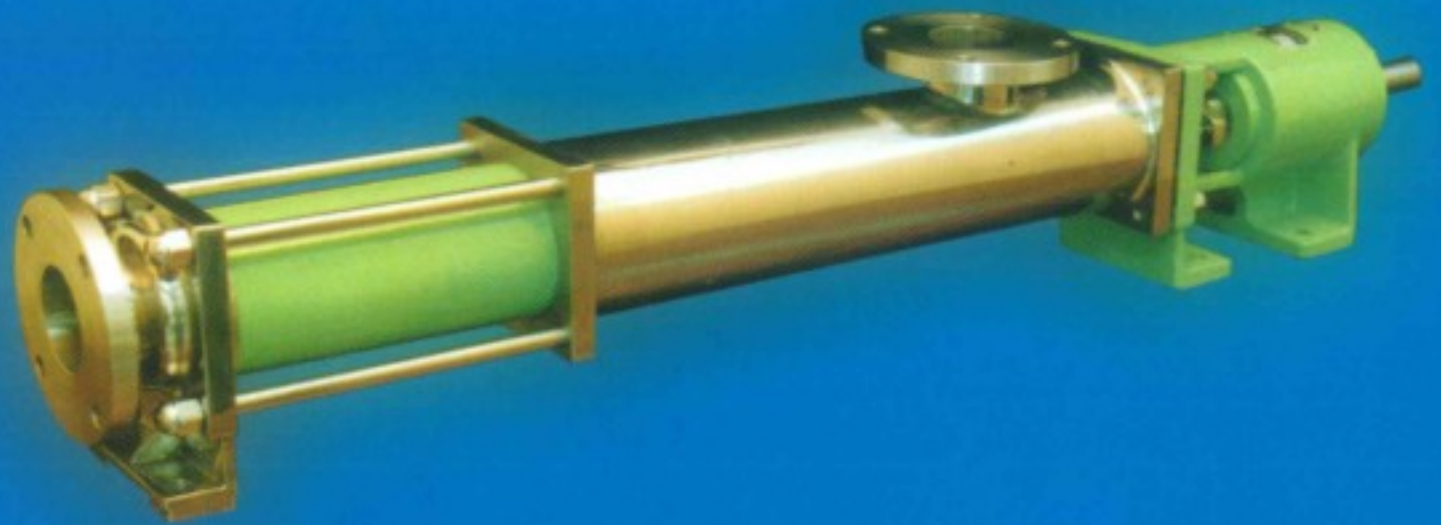


prakash pumps

SINGLE SCREW PUMPS
FOR
CHEMICAL AND PROCESS
INDUSTRIES

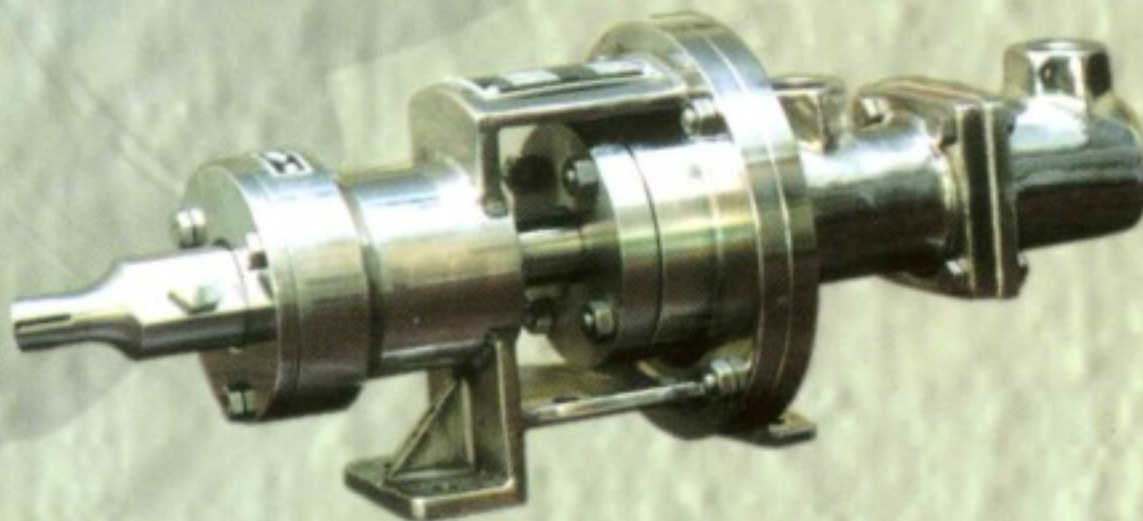
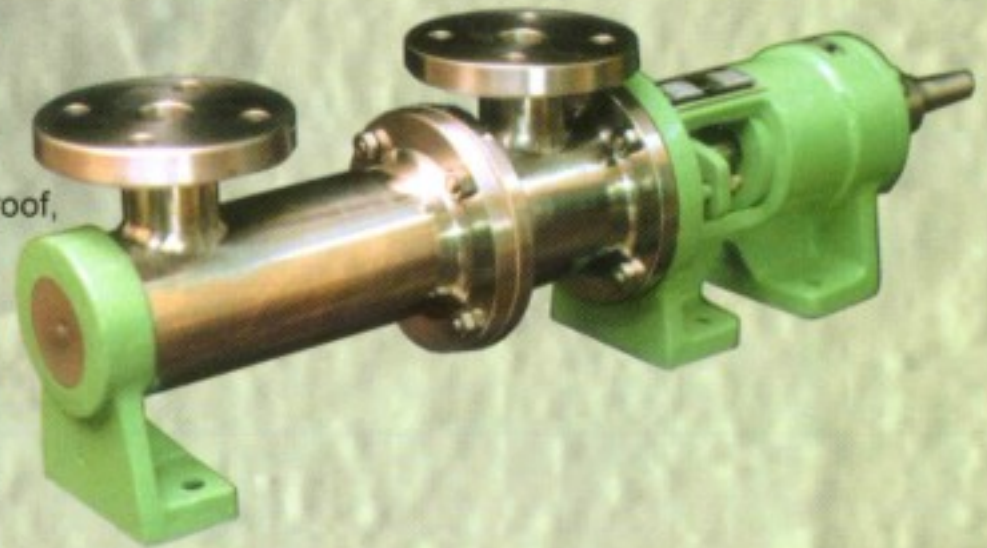


Prakash Process Pumps

'PC' / 'PS' SERIES PUMPS - TECHNICAL DATA

TYPICAL FEATURES

- ◆ Self-Priming upto 8.5 metres of water column.
- ◆ Suitable for all media which can be forced through a pipe i.e. aqueous media and media of extreme viscosity (upto 1 million Centipoise) and extreme proportions of fibrous or solid particles.
- ◆ Positive, rotary displacement virtually pulsation free flow.
- ◆ Integrally vulcanized, easily replaceable stator, torsion-proof, geometrically stable and therefore offering long life.
- ◆ No need for valves, which would impede flow.
- ◆ Speed-governed delivery rate.
- ◆ Suction and delivery ends can be interchanged by merely changing direction of rotation of the prime mover.
- ◆ The pressure head is independent of speed and the capacity is approximately proportional to speed.



FLUIDS HANDLED

- ◆ Acidic & Alkaline Slurry
- ◆ Alum
- ◆ Ceramic Slurry
- ◆ Detergent Slurry
- ◆ Emulsions
- ◆ Effluent
- ◆ Molasses
- ◆ Paper Pulp
- ◆ Paint
- ◆ Petroleum Jelly
- ◆ Printing Ink
- ◆ Resins
- ◆ Soap Stock
- ◆ Sewage Sludge
- ◆ Sugar Juice
- ◆ Sodium Silicate
- ◆ Viscose
- ◆ Yeast

INDUSTRIES

- ◆ Brewery
- ◆ Chemical & Process
- ◆ Ceramics
- ◆ Construction
- ◆ Cosmetics & Toiletries
- ◆ Distillery
- ◆ Effluent & Sewage Treatment
- ◆ Electronics
- ◆ Engineering
- ◆ Edible Oil
- ◆ Fertilizer
- ◆ Marine
- ◆ Mining
- ◆ Oil Exploration
- ◆ Paper Pulp & Cellose
- ◆ Paint
- ◆ Pharmaceuticals
- ◆ Petrochemicals & Refinery
- ◆ Soap & Detergent
- ◆ Sugar



Series PC & PS Pump Technical Data

SINGLE STAGE PUMPS

TOTAL HEAD FROM ALL CAUSES

PUMP MODEL	SUCTION AND DELIVERY BRANCHES mm	SUCTION LIFT WATER metres	SPEED R.P.M	DELIVERY PRESSURE					
				1.5 kg/sq.cm		3 kg/sq.cm		4.5 kg/sq.cm	
				DISCHARGE L.P.M	ESTIMATED MOTOR H.P	DISCHARGE L.P.M	ESTIMATED MOTOR H.P	DISCHARGE L.P.M	ESTIMATED MOTOR H.P
PC-2/PS-2	19	8.5	720	10	0.5	8	0.5	5	0.5
			960	13	0.75	11	0.75	7	0.75
			1450	20	1	16	1	10	1
PC-3/PS-3	32	8.3	720	18	0.75	12	0.75	6	0.75
			960	25	1	20	1	12	1
			1450	36	1	32	1	24	1
PC-4/PS-4	38	8.3	720	60	2	50	2	31	2
			960	91	2	73	2	54	3
			1450	120	3	118	3	102	5
PC-6/PS-6	50	7.6	720	110	3	82	3	55	3
			960	150	3	125	3	90	4
			1450	234	3	208	5	170	5
PC-8/PS-8	65	7.6	720	142	3	106	3	71	3
			960	193	3	161	3	116	5
			1450	302	5	268	5	219	7.5
PC-10/PS-10	76	7.6	580	230	3	188	4	140	5
			720	286	4	256	5	200	7.5
			960	396	5	355	5	302	7.5
PC-12/PS-12	100	7.6	580	400	5	318	7.5	217	10
			720	499	7.5	418	7.5	326	10
			960	680	7.5	600	10	509	12.5
PC-14/PS-14	100	7.6	350	370	5	310	5	242	7.5
			580	601	7.5	485	10	330	15
			720	760	10	637	10	498	15

DOUBLE STAGE PUMPS

PUMP MODEL	SUCTION AND DELIVERY BRANCHES mm	SUCTION LIFT WATER metres	SPEED R.P.M	DELIVERY PRESSURE					
				3 kg/sq.cm		6 kg/sq.cm		9 kg/sq.cm	
				DISCHARGE L.P.M	ESTIMATED MOTOR H.P	DISCHARGE L.P.M	ESTIMATED MOTOR H.P	DISCHARGE L.P.M	ESTIMATED MOTOR H.P
PC-2D/PS-2D	19	8.5	720	10	1	8	1	6	1
			960	14	1	11	1	8	1
			1450	22	1	16	1.5	11	1.5
PC-3D/PS-3D	32	8.3	720	18	1.5	18	1.5	0	1.5
			960	24	1.5	30	2	12	2
			1450	38	2	36	2	20	2
PC-4D/PS-4D	38	8.3	720	65	3	54	3	33	3
			960	98	3	79	3	58	5
			1450	130	5	127	5	110	5
PC-6D/PS-6D	50	7.6	720	125	3	96	4	60	5
			960	158	4	136	4	105	6
			1450	256	4	232	5	200	7.5
PC-8D/PS-8D	65	7.6	720	153	5	114	5	77	7.5
			960	208	5	174	5	125	10
			1450	326	7.5	289	7.5	237	10
PC-10D/PS-10D	76	7.6	580	248	5	203	7.5	151	10
			720	309	7.5	276	7.5	216	10
			960	428	7.5	383	10	326	12.5

The Suction lift quoted relate to water at 10°C and 762 mm. barometer when operated at the lowest speeds listed. The data above are related to pumps without circulating bypasses and for liquids of similar viscosity to water.