

About Ebara Corporation and Hayward Gordon

Established as a Japanese pump manufacturer in 1912, EBARA Corporation has developed businesses in the fields of fans and blowers, chillers, environmental plants, and the precision machinery industry. In October 2022, they acquired the Hayward Gordon Group to expand their product portfolio with Hayward Gordon's heavy-duty products.

Hayward Gordon encompasses three industry-leading brands in the pump and mixer market: Hayward Gordon, Sharpe Mixers, and Scott Mixers. The Company is a leader in solids handling pumps for water and wastewater treatment and has been offering one of the broadest lines of industrial and sanitary mixers in North America for more than six decades. The company operates facilities in Halton Hills, ON, Canada (Toronto area) and Adelanto, CA, USA.

Dealer



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Features of the screw impeller pump



1 Efficient non clog impeller The large open channel of the non clog screw impeller, with no exposed blades or edges, allows for the smooth passage of large or delicate solids. High efficiencies of up to 80% are obtained.

- Clamp type construction eliminates drilled and tapped holes to permit **2** Clamp type construction wider use of abrasion resistant hard metals.
- 3 Abrasive resistant materials Pump end materials include: High Chrome Iron and Ni-Hard for abrasive applications; as well as Cast Iron, Ductile iron, 316SS, and other alloys.
- 4 Externally adjustable liner Optional externally adjustable suction liner for convenient adjustment of impeller clearance.
- **5** Sealing options Split bronze gland for easy replacement of packing rings. A wide range of mechanical seals is also available.
- 6 Pump out vanes Impeller pump out vanes or spiral grooves keep solids away from the seal area, reduces axial thrust, and increases seal/packing life.
- **7** Low NPSH requirements The screw impeller design has low NPSH requirements, and can handle sludges.
- 8 Non-overloading A characteristic of the screw impeller is a relatively constant power requirement that actually decreases with increasing capacity.

Introduction

The Hayward Gordon XCS screw impeller pump line offers a unique set of advantages for handling thick sludges, large or stringy solids, shear sensitive fluids, and delicate materials. For abrasive solids, wet-end components are available in wear resistant hard metals.

The open channel screw impeller combines gentle, clog-free pumping action with high efficiency and non-overloading characteristics.

Applications

Waste Treatment Mining Sludges, Sewage, Carbon and resin Flocculants slurries, Solvent Extraction

Food Processing Live fish, Fruits, Vegetables

Solids handling

	Model	Ømm	Model	Ømm	Model	Ømm	Model	Ømm
Maximum Sphere Size	XCS 4A	79	XCS 5A	95	XCS 6A	123	XCS 10B	114
	XCS 4B	69	XCS 5B	82	XCS 6B	117	XCS 10C	127
	XCS 4C	98	XCS 5C	98	XCS 6D	123	XCS 12B	149
	XCS 4HA	76	XCS 5HA	95	XCS 8C	101	XCS 12C	152
	XCS 4HB	66	XCS 5HC	95	XCS 8D	101	XCS 16C	187

Dimensions

Pump Model	SUCT	DISC	СР	D	E1	E2	F	G	н	L	UØ	Keyway	0	v	х	Y	Z	Weight Kg
XCS4-A/B	100	100	696	210	146	44.5	391	19	19	133	35	7.9 x 7.9	457	77	248	174	254	159
XCS4-C	100	100	734	210	146	44.5	391	19	19	166	35	7.9 x 7.9	483	77	273	197	268	164
XCS4-HA/HB	200	100	986	343	206	165	553	16	22	241	55	12.7 x 12.7	711	108	368	241	335	398
XCS5-A/B/C	150	125	823	254	162	111	425	16	22	205	48	12.7 x 12.7	586	94	333	246	321	227
XCS5-HA/HC	250	125	1095	394	305	165	602	25.4	25.4	229	66.8	16 x 16	853	152	460	305	442	526
XCS6-A/B/D	200	150	1107	343	206	165	602	16	22	273	55	12.7 x 12.7	749	108	406	343	389	409
XCS8-C/D	200	200	861	343	206	111	475	16	22	201	48	12.7 x 12.7	742	94	399	277	417	318
XCS10-B/C	250	250	1118	394	305	165	600	25.4	25.4	343	55.4	12.7 x 12.7	902	108	508	343	506	636
XCS12-B/C	300	300	1271	533	330	165	625	25.4	25.4	457	66.8	16 x 16	1219	152	686	457	620	795
XCS16-C	400	400	1651	660	457	165	838	32	32	508	86	22.2 x 22.2	1168	178	508	508	775	1340





Configurations





DIRECT DRIVE

V-BELT

Pulp and Paper Wood chips, Medium density pulp stock, Sludges

Chemical/Petrochemical Oil/water separators, Crystal slurries, Nonnewtonian fluids

Dimensions are in mm unless otherwise stated.







VERTICAL DRY PIT

SUBMERSIBLE