



## Surface Finish

To enhance standard finish or for hygiene purposes, the Series S and X pumpheads and rotors may be electro polished and/or mechanical (hand) polished.

### Electro polishing

This is an electro-chemical process in which the stainless steel component is immersed into a chemical bath and subjected to an electrical current. A controlled amount of metal is removed from all surfaces evenly. The appearance is 'semi-bright'.

### Mechanical (Hand)

This is required when it is necessary to improve the surface finish beyond that achieved by electropolishing only i.e. a 'mirror finish'.

For the Series S, X and pumps the surface finish for the pumphead and rotors is as follows:

- ?? 0.8 µm Ra - standard
- ?? = 0.8 µm Ra – electro polishing
- ?? 0.5 µm Ra - mechanical and electro polishing

Higher surface finishes are available on request.

It should be noted that pump performance will be affected by electro polish surface finish to the pumphead internals. For sizing purposes a percentage increase on the 'dead head speed' (see table below) should be applied to the standard performance curve for stainless steel tri-lobe rotors (Series S) and multi-lobe rotors (Series X) and interpolated accordingly.

Pump Model	%age Increase Required		Pump Model	%age Increase Required	
	Electro polishing	Mechanical and Electro polishing		Electro polishing	Mechanical and Electro polishing
S1-0005	17.0	60.0	X1-0005	12.0	60.0
S1-0008	15.1	55.0	X1-0007	9.3	47.6
S2-0013	10.8	45.8	X2-0013	8.3	40.9
S2-0018	8.5	38.0	X2-0018	7.7	38.4
S3-0027	6.7	32.7	X3-0027	6.9	34.0
S3-0038	5.5	28.5	X3-0035	6.2	31.3
S4-0055	4.6	24.87	X4-0046	5.6	28.6
S4-0079	3.8	21.0	X4-0063	5.0	25.5
S5-0116	2.9	18.0	X5-0082	4.5	22.8
S5-0168	2.4	15.5	X5-0115	4.0	19.3
S6-0260	2.0	12.8	X6-0140	3.5	17.0
S6-0353	1.7	11.4	X6-0190	2.9	14.0
			X7-0250	2.2	11.3
			X7-0380	1.3	6.8

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*The information contained herein is correct at the time of issue, but may be subject to change without prior notice*