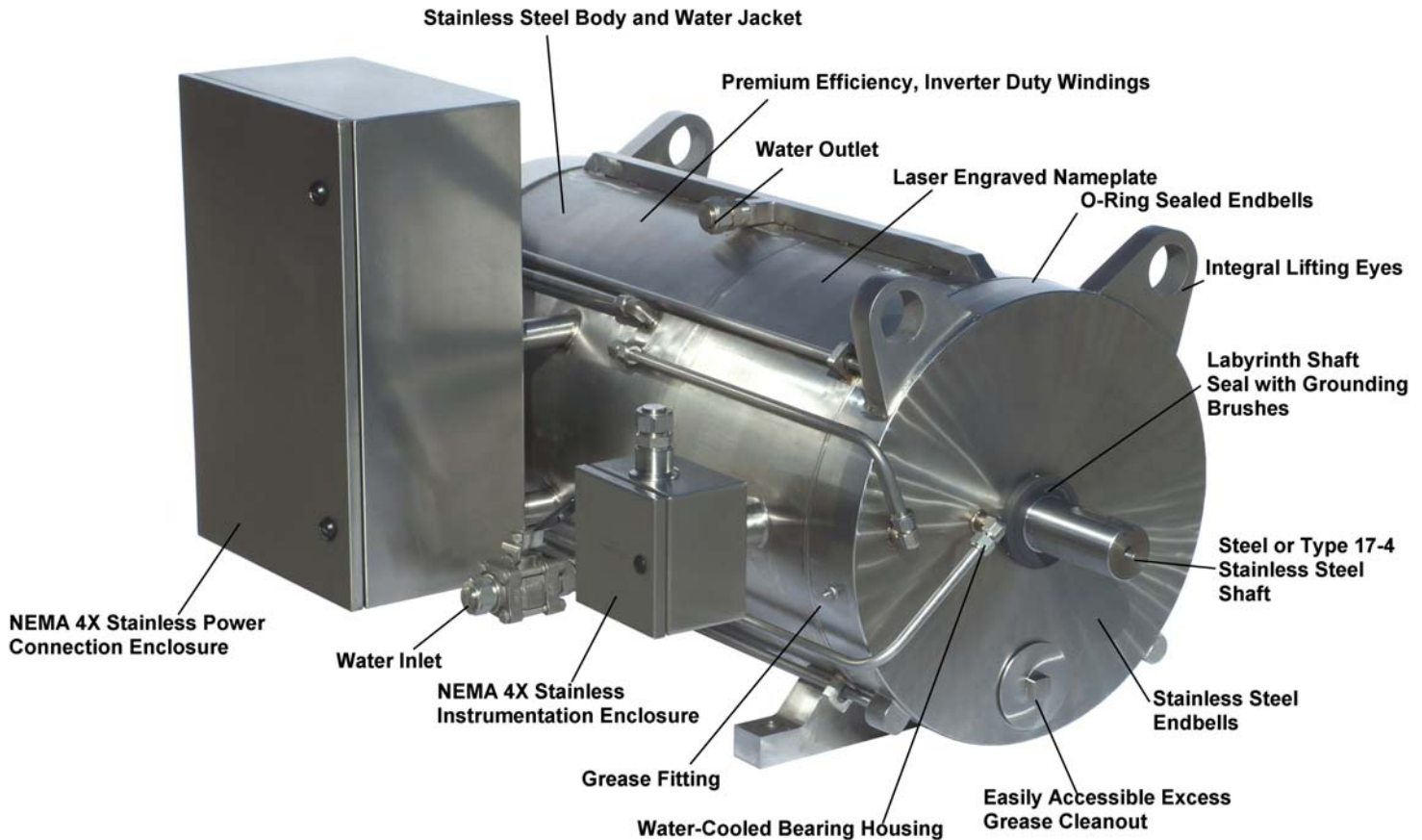


STAINLESS MOTORS, INC.

Your Source for GMP Power Transmission

Stainless Steel Water Cooled High Efficiency Motors 5HP – 500HP NEMA & IEC Frames



400HP, NEMA 449TS Frame, 3565 RPM

Water Cooling affords highest possible efficiency and ability to recover waste heat

Winding and bearing temperature detectors for remote condition monitoring

Stainless water passages will not affect water purity or chemistry

Suitable for severe washdown duty environments

Significant motor life increase Significant bearing life increase

Engineered, Manufactured, and Supported in the USA

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www.stainlessmotors.com

The Time for Water Cooling is Now

Modern electric motors are remarkable machines yielding efficiencies above 90-95%. Yet in the large plant with many motors, the 5+% loss constitutes an appreciable amount of waste heat that must be removed and rejected to the surrounding atmosphere. This heat may be directly ducted outside as hot air, but often it is removed from the interior of the plant through the plant's air conditioning system; a very expensive way to remove waste heat.

Water cooling of the electric motor provides a far more efficient means for the collection and removal of the waste heat. If the plant requires hot water, or generates steam, the warm water discharge from the Stainless Steel Water Cooled motor can be used directly and will afford **huge energy savings**. In fact, the 5% loss can now be considered as **free pre-heat** for process water heaters or steam generators. The **stainless steel** housing, water jacket and endbells will not rust or impart corrosion debris to the cooling water, assuring water chemistry and purity are unchanged.

Uniform and lower temperatures of the water-cooled motor winding and bearings **substantially increases the motor's service life** and reduces bearing maintenance requirements. Remote motor condition monitoring is provided for via internal bearing and winding RTD's, whose connection leads terminate in an instrumentation enclosure separate from the larger power connection enclosure. Bearings are re-greased from external fittings or continuously supplied via automatic re-greasers. Excess and waste grease is efficiently removed from the bearings and collected in easily accessible waste grease reservoirs for periodic removal

Substantial noise reduction is an additional benefit of the water cooled motor design. Elimination of the high speed cooling fans and blowers required on air cooled motors renders the water-cooled motor **comparatively silent in operation**.

Typical Power/Frame Combinations

HP	Speed	NEMA Frame	KW	Speed	IEC Frame
40	1775, 3540	324TS	30	1775, 3540	200M
50	1775, 3540	326TS	37	1775, 3540	200M
60	1780, 3560	364TS	45	1780, 3560	225S
75	1780, 3560	365TS	55	1780, 3560	225M
100	1780, 3560	405TS	75	1780, 3560	250S
125	1780, 3570	444TS	90	1780, 3570	280M
150	1785, 3570	445TS	110	1785, 3570	315S
200	1785, 3570	447TS	150	1785, 3570	315M
250	1785, 3570	449TS	185	1785, 3570	315M
300	1785, 3570	449TS	225	1785, 3570	315M
350	1785, 3570	449TS	260	1785, 3570	315M
400	1785, 3580	449TS	300	1785, 3580	315M
500	1790, 3580	449TS	375	1790, 3580	315M



75KW, 1780 RPM IEC Frame

C-Face and Flange Mount Available

Custom or altered frames/shafts are readily executed by Stainless Motors Inc. engineers and technicians. Call a Stainless Motors, Inc. applications engineer today to discuss your plant's requirements.