HMI or ASME Hoist Duty Classifications

The following chart is provided to give the reader an idea of the relative significance of the duty cycle ratings for the various electric hoists depicted in this web. The duty cycle determination for a particular application involves obtaining a significant amount of additional information and expertly applying it to the intended use. Please consult our application experts before making any duty cycle decisions. This table is given for reference only. Do not rely upon it for your application.

Hoist Duty Class	Typical Areas of Application	Operational Time Ratings at 65% Mean Load Factor			
		Uniformity Distributed Work Periods		Infrequent Work Periods	
		Max on Time Min/Hour	Max No. Starts/Hour	Max On Time w Cold Start	Max Number Starts
H1	Powerhouse and Utilities, infrequent handling, Hoists used primarily to install and service heavy equipment, loads frequently approach capacity and hoist idle for long periods between use.	7.5 minutes (12.5%)	75	15 minutes	100
H2	Light machine shop fabricating, service and maintenance; loads and utilization randomly distributed; rated loads infrequently handled. Total running time not over 12.5% of the work period.	7.5 minutes (12.5%)	75	15 minutes	100
H3	General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed. Total running time not over 25% of work period.	15 minutes (25%)	150	30 minutes	200
H4	High volume handling of heavy loads, frequently near rated load in steel warehousing, machine and fabricating shops, mills, and foundries, with total running time not over 50% of the work period. Manual or automatic cycling operations of lighter loads with rated loads in frequently handled such as in heat treating or plating operations, with total running time frequently 50% of the work period.	30 minutes (50%)	300	30 minutes	300
H5	Bulk handling of material in combination with buckets, magnets, or other heavy attachments. Equipment often cab operated. Duty cycles approaching continuous operation are frequently necessary. User must specify exact details of operation, including weight of attachments.	60 minutes (100%)	600	Not Applicable [Note (1)]	Not Applicable [Note (2)]
NOTE: (1) Not applicable since there are no infrequent work periods in Class H5 service.					

Selection is based on:
Load Spectrum

- Average operating time per day
- Daily working time
- Starting frequency