

## Comparison of Hoist Design Standards - Basic Features

		FEM	
<b>1Dm</b>	Motor Starts per hour	90	
	Max. On Time (minutes/Hr)	7.5	
	Bearing Life (Hours)	400	
	Rope to Drum Ratio	11.2 : 1	
	Rope to Sheave Ratio	12.5 : 1	
Rope Safety Factor	3.15 : 1		
<b>1Cm</b>	Motor Starts per hour	120	
	Max. On Time (minutes/Hr)	7.5	
	Bearing Life (Hours)	800	
	Rope to Drum Ratio	12.5 : 1	
	Rope to Sheave Ratio	14 : 1	
Rope Safety Factor	3.35 : 1		
<b>1Bm</b>	Motor Starts per hour	150	
	Max. On Time (minutes/Hr)	15	
	Bearing Life (Hours)	1600	
	Rope to Drum Ratio	14 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	3.55 : 1		
<b>1Am</b>	Motor Starts per hour	180	
	Max. On Time (minutes/Hr)	15	
	Bearing Life (Hours)	3200	
	Rope to Drum Ratio	16 : 1	
	Rope to Sheave Ratio	18 : 1	
Rope Safety Factor	4 : 1		
<b>2m</b>	Motor Starts per hour	240	
	Max. On Time (minutes/Hr)	24	
	Bearing Life (Hours)	6300	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	20 : 1	
Rope Safety Factor	4.5 : 1		
<b>3m</b>	Motor Starts per hour	300	
	Max. On Time (minutes/Hr)	30	
	Bearing Life (Hours)	12500	
	Rope to Drum Ratio	20 : 1	
	Rope to Sheave Ratio	22.4 : 1	
Rope Safety Factor	5.6 : 1		
<b>4m</b>	Motor Starts per hour	360	
	Max. On Time (minutes/Hr)	60	
	Bearing Life (Hours)	25000	
	Rope to Drum Ratio	22.4 : 1	
	Rope to Sheave Ratio	25 : 1	
Rope Safety Factor	7.1 : 1		
<b>5m</b>	Motor Starts per hour	360	
	Max. On Time (minutes/Hr)	>60	
	Bearing Life (Hours)	50000	
	Rope to Drum Ratio	25.12 : 1	
	Rope to Sheave Ratio	28 : 1	
Rope Safety Factor	9 : 1		

		ASME HST-4M *	
<b>H1</b>	Motor Starts per hour	75	
	Max. On Time (minutes/Hr)	7.5	
	Bearing Life (Hours)	1250	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	5 : 1		
<b>H2</b>	Motor Starts per hour	75	
	Max. On Time (minutes/Hr)	7.5	
	Bearing Life (Hours)	2500	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	5 : 1		
<b>H3</b>	Motor Starts per hour	150	
	Max. On Time (minutes/Hr)	15	
	Bearing Life (Hours)	5000	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	5 : 1		
<b>H4</b>	Motor Starts per hour	300	
	Max. On Time (minutes/Hr)	30	
	Bearing Life (Hours)	10000	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	5 : 1		
<b>H5</b>	Motor Starts per hour	600	
	Max. On Time (minutes/Hr)	60	
	Bearing Life (Hours)	20000	
	Rope to Drum Ratio	18 : 1	
	Rope to Sheave Ratio	16 : 1	
Rope Safety Factor	5 : 1		

\* Based on Uniformly distributed Work Periods