



Model Selection

TABLE 1 LOAD CLASSIFICATION SYMBOLS

METAL ROLLING MILLS		CONVEYORS		BLOWERS	
Billet Shears	H	Apron Conveyors	M	Blower (axial & radial)	U
Chain transfers	M	Ballast elevators	M	Cooling tower fans	M
Cold rolling mills	H	Band Pocket conveyors	M	Induced draught fans	M
Continuous casting plant	H	Belt Conveyors (Bulk Material)	M	Rotary piston blowers	M
Cooling beds	M	Belt Conveyors (Piece Goods)	H	Turbo blowers	U
Cropping shears	H	Bucket Conveyors	U	PLASTIC INDUSTRY	
Cross transfers	M	Chain Conveyors	M	Calenders	M
Descaling machines	H	Circular conveyors	M	Crushers	H
Heavy and medium plate mills	H	Goods lifts	M	Extruders	M
Ingot and blooming mills	H	Hoists	H	Mixers	M
Ingot handling machinery	H	Inclined hoists	H	PUMPS	
Ingot pushers	H	Link Conveyors	M	Centrifugal pumps (light Liquids)	U
Manipulators	H	Passenger lifts	M	Centrifugal pumps (semi-liquid)	M
Plate shears	H	Screw conveyors	M	Piston pumps	H
Plate tilters	M	Steel belt conveyors	M	Plunger pumps	H
Roller tables	H	Winches hauling	M	RUBBER MACHINERY	
Sheet mills	H	CRANES		Calenders	M
Trimming shears	M	Derricking jib cranes	M	Extruders	H
Tube welding machines	H	Hoist gear	U	Mixers	M
Winding machines	M	Lifting gear	U	Pug mills	H
Wire drawing benches	M	Slewing gear	M	Rolling mills	H
Roller straighteners	H	Traveling gear	H	STONE & CLAY INDUSTRY	
METAL WORKING		DREDGERS		Ball mills	H
Forging press	M	Bucket conveyors	H	Beater mills	H
Hammers	H	Bucket Wheels	H	Breakers	H
Machine tools, auxiliary drives	U	Cutter heads	H	Brick pressures	H
Presses	H	Slewing gear	M	Tube mills	H
Punch Presses	H	Travelling gear (Caterpillar)	H	TEXTILES MACHINES	
Shears	M	Travelling gear (Rail)	M	Batchers	M
Sheet metal bending machines	M	CHEMICAL INDUSTRY		Looms	M
GENERATORS		Agitators (Liquid material)	U	Printing and dyeing machines	M
Frequency transformers	H	Agitators (semi-Liquid material)	M	Tanning wats	M
Generators	H	Centrifuges (heavy)	M	Willows	M
Welding generators	H	Centrifuges (Light)	U	WATER TREATMENT	
FOOD INDUSTRY		Cooling drums	M	Aerators	M
Boottling and container filling	U	Drying drums	M	Screw pumps	M
Cane crushers	M	Mixers	M	WOOD WORKING MACHINES	
Cane knives	M	BUILDING MACHINERY		Barkers	H
Cane mills	H	Concrete mixers	M	Planting machines	M
Kneading machines	M	Hoists	M	Saw frames	H
Packaging machines	M	Road construction Machinery	M	Wood working machines	U
Sugar beet cutters	M	LAUNDRIES		WIND MILLS	
Sugar beet washing machines	M	Tumblers	M	Main drive	H
Crystallizers	M	Washing machines	M	Yaw / Slew drive	M

U = Uniform loads. M = Medium shock loads. H = High shock loads.

Table 2. SERVICE FACTORS

Prime Mover	Daily service in hours	Load classification of driven machine		
		U	M	H
Electric motors, Turbines, Hydraulic motors	Upto 3	0.80	1.00	1.50
	Above 3 to 10	1.00	1.25	1.75
	Above 10	1.25	1.50	2.00
Piston engines 4-6 cyl. Cyclic variation 1:100 - 1:200	Upto 3	1.00	1.00	1.75
	Above 3 to 10	1.25	1.25	2.00
	Above 10	1.50	1.50	2.25
Piston engines 1-3 cyl. Cyclic variation to 1: 100	Upto 3	1.25	1.50	2.00
	Above 3 to 10	1.50	1.75	2.25
	Above 10	1.75	2.00	2.50



SINGLE STAGE			SINGLE STAGE		
MODEL	TORQUE RATING N.M.	AVAILABLE RATIOS	MODEL	TORQUE RATING N.M.	AVAILABLE RATIOS
KT 01	30	3.53, 4.07, 4.91	KT 89	13500	11.42, 12.95, 14.67, 17.00,
KT 02	80	3.63, 4.12, 4.85, 6.00	KT 910	22500	19.71, 24.11, 27.57, 29.49, 31.97, 39.01, 51.84
KT 03	175	3.17, 3.46, 3.84, 4.36, 5.11, 6.69, 8.4			
KT 04	400		MODEL	TORQUE RATING N.M.	AVAILABLE RATIOS (PREFERRED)
KT 05	750		KT 111	50	43.98, 50.71, 58.44, 67.39, 81.32, 85.11, 98.13, 118.38
KT 06	1500		KT 222	120	47.84, 54.30, 61.60, 68.82, 79.06, 85.37, 89.73, 96.90, 105.63, 114.07, 130.68, 141.15, 148.32, 174.60, 216.00
KT 07	3000				
KT 08	6500				
KT 09	12000				
KT 10	18000	3.38, 3.82, 4.44, 5.43, 7.2	KT 223	250	55.82, 60.87, 65.19, 69.13, 76.41, 81.38, 86.73, 92.25, 100.04, 111.74, 117.79, 126.32, 138.24, 148.70, 157.38, 167.85, 182.95, 197.59, 207.65, 244.44, 302.40.
DOUBLE STAGE			KT 333	280	80.08, 85.54, 90.34, 97.09,
MODEL	TORQUE RATING N.M.	AVAILABLE RATIOS (PREFERRED)	KT 334	600	102.26, 111.62, 118.29,
KT 11	40	12.46, 14.36, 16.56, 17.33, 19.98, 24.11	KT 345	1200	131.29, 141.89, 159.66,
KT 22	100	13.18, 14.19, 16.97, 19.98, 21.78, 23.54, 29.00, 36.00	KT 445	1350	171.88, 178.12, 194.42,
			KT 456	2100	215.77, 228.72, 244.99,
			KT 457	4100	270.95, 287.13,
			KT 467	4300	305.64, 375.91, 360.56, 472.05, 592.70.
KT 23	200	11.51, 12.55, 13.94, 15.37, 16.78, 17.96, 19.02, 21.05, 23.04, 24.78, 27.56, 30.66, 32.45, 34.61, 40.74, 50.40	KT 578	8500	64.99, 67.54, 72.58, 78.50, 84.36, 90.89, 96.00,
KT 33	225	10.04, 10.97, 11.97, 13.29, 15.08, 16.74, 17.68, 19.00, 21.20, 22.28, 25.69, 26.11, 29.17, 32.26, 34.19, 36.62, 44.76, 56.19, 70.56	KT 578	9000	103.17, 111.43, 115.93, 123.23, 129.51, 139.89, 151.80, 158.39, 170.98, 175.17, 185.65, 198.89, 214.65, 249.48, 263.66, 305.11, 322.27, 383.14, 404.57, 408.03
KT 34	500		KT 789	15000	56.46, 63.96, 68.19, 74.12, 83.42, 92.58, 98.14,
KT 44	550				
KT 45	900				
KT 56	1800				
KT 57	3300				
KT 67	3500				
KT 78	7500		10.71, 11.69, 12.98, 14.67, 15.36, 17.05, 18.79, 20.85, 22.69, 23.67, 25.55, 27.75, 29.70, 32.09, 36.32, 48.17, 60.48		