

APPLICATION SERVICE FACTORS

DATA SHEET DS110 REV.01

The values listed below are intended only as a general guide. For systems which frequently use the peak torque capacity of the power source, check that this peak torque does not exceed the normal torque capacity of the coupling.

APPLICATION	SERVICE FACTOR	APPLICATION	SERVICE FACTOR	APPLICATION	SERVICE FACTOR
Agitators		Stackers	1.75	Metal Forming Machines	
Pure Liquids	1.0	Utility Winches	1.5	Draw Bench Carriage	2.0
Liquids, Variable Density	1.25	Elevators		Draw Bench Main Drive	2.0
Barge Puller	2.0	Bucket	1.75	Extruder	2.0
Beaters	1.5	Escalators	1.25	Forming Machinery	2.0
Blowers		Freight	2.0	Slitters	1.5
Centrifugal	1.0	Evaporators	1.0	Table Conveyors	
Lobe	1.5	Fans		Non Reversing	2.25
Vane	1.25	Centrifugal	1.0	Reversing	2.5
Can Filling Machinery	1.0	Cooling Towers	2.0	Wire Draw	1.5
Car Dumpers	2.5	Forced Draft	1.5	Wire Winding	1.75
Car Pullers-Intermittent Duty	1.5	Induced Draft without		Coilers	1.5
Compressors		Damper Control	2.0	Metal Rolling Mills	
Centrifugal	1.25	Propeller	1.5	Blooming Mills (Consult Factory)	
Lobe	1.5	Induced Draft with		Coilers, hot mill	2.0
Reciprocating (consult factory)		Damper Control	1.25	Coilers, cold mill	1.5
Conveyors, Uniformly Loaded		Feeders		Cold Mills	2.0
Assembly	1.0	Belt, Apron, Disc	1.25	Cooling Beds	1.75
Belt	1.0	Screw	1.25	Door Openers	2.0
Screw	1.5	Reciprocating	2.5	Draw Benches	2.0
Bucket	1.5	Generators		Edger Drives	1.75
Live roll, shaker and		Not Welding	1.0	Feed Rolls, Reversing Mills	3.5
reciprocating	3.0	Welding	2.0	Furnace Pushers	2.5
Conveyors (Heavy Duty), Not		Hoist	1.5	Hot Mills	3.0
Uniformly Loaded		Hammer Mills	2.0	Ingot Cars	2.5
Assembly	1.25	Kilns	1.5	Kick-outs	2.5
Belt	1.25	Laundry Washers		Manipulators	3.0
Oven	1.5	Reversing	2.0	Merchant Mills	3.0
Reciprocating	2.5	Line Shafting		Piercers	3.0
Screw	1.5	Any Processing Machinery	1.5	Pusher Rams	2.5
Shaker	2.5	Lumber Machinery		Reel Drives	1.75
Cranes and Hoists		Barkers - Drum Type	2.0	Reel Drums	2.0
Main Hoists	2.0	Edger Feed	2.0	Reelers	3.0
Reversing	2.0	Live Rolls	2.0	Rod and Bar Mills	3.0
Skip	1.75	Log Haul	2.0	Roughing Mill Delivery Table	3.0
Trolley Drive	1.75	Planer	1.75	Runout Tables	2.5
Bridge Drive	1.75	Slab Conveyor	1.75	Saws , hot & cold	2.5
Slope	1.5	Sorting Table	1.5	Screwdown Drives	3.0
Crushers		Trimmer Feed	1.75	Skelp Mills	3.0
Ore	2.75	Machine Tools		Slitters	3.0
Stone	2.75	Bending Roll	2.0	Slabbing Mills	3.0
Dredges		Plate Planer	1.5	Soaking Pit Cover Drives	3.0
Cable Reels	1.75	Punch Press Gear Driven	2.0	Straighteners	2.5
Conveyors	1.5	Tapping Machinery	2.5	Tables, transfer & runout	2.5
Cutter Head Jig Drives	2.25	Other Machine Tools		Thrust Block	3.0
Maneuvering Winches	1.75	Main Drive	1.5	Traction Drive	3.0
Pumps	1.75	Aux. Drives	1.25	Tube Conveyor Rolls	2.5
Screen Drives	1.75			Unscramblers	2.5

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APPLICATION	SERVICE FACTOR	APPLICATION	SERVICE FACTOR	APPLICATION	SERVICE FACTOR
Wire Drawing	1.5	Conveyors	1.25	Screens	
Mills, Rotary Type		Dryers	1.75	Air Washing	1.0
Ball	2.25	Jordans	1.75	Rotary Stone or Gravel	1.5
Cement Kilns	2.0	Log Haul	2.0	Traveling Water Intake	1.25
Dryer Coolers	2.0	Reel	1.5	Vibrating	2.5
Kilns	2.0	Winder	1.5	Sewage Disposal Equipment	
Pebble	2.0	Printing Presses	1.5	Bar Screens	1.25
Rolling	2.0	Puller (Barge Haul)	2.0	Chemical Feeders	1.25
Tube	2.0	Pumps		Dewatering Screens	1.25
Tumbling	2.0	Centrifugal	1.0	Grit Collectors	1.25
Mixers		Gear, Rotary or Vane	1.5	Scum Breakers	1.25
Concrete, Cont.	1.75	Reciprocating		Slow or Rapid Mixers	1.25
Muller	1.5	1 cyl., single or		Sludge Collectors	1.25
Oil Industry		Double Acting	2.0	Thickeners	1.25
Chillers	1.25	2 cyl., single acting	2.25	Vacuum Filters	1.25
Paraffin Filter Press	1.75	2cyl., double acting	2.0	Shredders	1.5
Oil Well Pumping	2.0	3 or more cyl.	1.75	Steering Gear	1.0
Paper Mills		Rubber Machinery		Stokers	1.0
Agitators (Mixers)	1.25	Mixer	2.5	Textile Machinery	
Barker, Mechanical	2.0	Rubber Calender	2.0	Dryers	1.5
"Barking" Drum Spur Gear	2.25	Rubber Mill (2 or more)	2.25	Dyeing Machinery	1.25
Beater and Pulper	1.75	Sheeter	2.0	Tumbling Barrel	1.75
Chippers	2.5	Tire Building Machines	2.5	Winch	1.5
Calenders	2.0	Tire & Tube Press Openers	1.0	Windlass	1.75
Calenders, Super	2.0	Tubers & Strainers	2.0	Woodworking Machinery	1.0
Converting Machines	1.5				

TYPE OF DRIVER

- o Electric Motor - Use Service factors as listed above.
- o Hydraulic Drive - add .25 to above Service Factors.
- o Internal Combustion Engine - add .5 to above Service factors.
- o Diesel Engines - consult with engine manufacturer or System Components.

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