

# Selection of Load Factor

The Load Factor is rated for the characteristics of the driven machine.

The tabulated ratings are based on a running time of 10 hours per day with uniform load.

For your reference, please see method (1) and (2) shown below.

## (1) Recommended Load Factor by the Driven Application.

[Load Factor]      U: Uniform load      M: Moderate shock      H: Heavy shock

**Table B-1 Reducer Load Factor**

Daily duty	~3 hours/day			~10 hours/day			~24 hours/day		
	U	M	H	U	M	H	U	M	H
Load Factor	0.80	1.00	1.35	1.00	1.20	1.50	1.50	1.35	1.60

**Table B-2 Recommended Load Classifications**

Type of APPLICATION	Type of LOAD	Type of APPLICATION	Type of LOAD	Type of APPLICATION	Type of LOAD	Type of APPLICATION	Type of LOAD
*Aerator		Elevators		slab conveyor	H	suction roll	U
Agitators		bucket - uniform load	U	small waste-conveyor-belt	U	washers & thickeners	M
pure liquids	U	bucket - heavy load	M	small waste-conveyor-chain	M	winders	U
liquids & solids	M	bucket - cont.	U	sorting table	M		
liquids-variable density	M	centrifugal discharge	U	tipple hoist conveyor	M	*Printing Presses	
Blowers		escalators	U	tipple hoist drive	M	Pullers	
centrifugal	U	freight	M	transfer conveyors	M	barge haul	H
lobe	M	gravity discharge	U	transfer rolls	M	Pumps	
vane	U	*man lifts	M	tray drive	M	centrifugal	U
Brewing & Distilling		*passenger	M	trimmer feed	M	proportioning	M
bottling machinery	U	**Extruders(Plastics)		waste conveyor	M	reciprocating single acting, 3 or more cylinders	M
brew kettles, cont. duty	U	blow molders	M	Machine Tools		double acting, 2 or more cylinders M	
cookers-cont. duty	U	coating	U	bending roll	M	*single acting, 1 or 2 cylinders	M
mash tubs-cont. duty	U	film	U	punch press-gear driven	H	*double acting, single cylinder	M
scale hopper, frequent starts	M	pipe	U	*notching press-belt driven	M	rotary-gear type	U
Can Filling Machines	U	pre-plasticizers	M	plate planers	H	rotary-lobe, vane	U
*Cane Knives	M	rods	U	tapping machine	H	Rubber & Plastics Industries	
Car Dumpers	H	sheet	U	other machine tools		*crackers	H
Car Pullers	M	tubing	U	main drives	M	laboratory equipment	M
Clarifiers	U	Fans		auxiliary drives	U	*mixing mills	H
Classifiers	M	centrifugal	U	Metal Mills		**refiners	M
Clay Working Machinery		*cooling towers		draw bench carriage &		**rubber calendars	M
brick press	H	induced draft	U	main drive	M	**rubber mill(2 on line)	M
briquette machine	H	*forced draft		forming machines	H	**rubber mill(3 on line)	U
clay working machinery	M	induced draft	M	*pinch, dryer & scrubber rolls,		**sheeter	M
pug mill	M	large(mine, etc.)	M	reversing		*tire building machines	
Compressors		large(industrial)	M	slitters	M	*tire & tube press openers	
centrifugal	U	light(small diameter)	U	table conveyors-non-reversing group	M	**tubers & strainers	M
lobe	M	Feeders		drives	M	**warming mills	M
reciprocating, multi-cylinder	M	apron	M	individual drives	H	Sand Muller	M
reciprocating, single-cylinder	H	belt	M	*table conveyors-reversing		Screens	
Conveyors-Uniformly		disc	U	wire drawing & flattening machine M		air washing	U
Loaded or Fed		reciprocating	H	wire winding machine	M	rotary-stone or gravel	M
apron	U	screw	M	Mills, Rotary Type		traveling water intake	U
assembly	U	Food industry		**ball	M	Sewage Disposal Equipment	
belt	U	beet slicer	M	*cement kilns	M	bar screens	U
bucket	U	cereal cooker	U	*dryers & coolers	M	chemical feeders	U
chain	U	dough mixer	M	kilns	M	collectors, circuline or	
flight	U	meat grinders	M	**pebble	M	straightline	U
oven	U	Generators(not welding)	U	**rod , plain & wedge bar	M	dewatering screws	M
screw	U	Hammer mills	H	tumbling barrels	H	grit collectors	U
Conveyors-Heavy Duty		Hoists		Mixers		scum breakers	M
Not Uniformly Fed		heavy duty	H	concrete mixers, cont.	M	slow or rapid mixers	M
apron	M	medium duty	M	concrete mixers, intermittent	M	sludge collectors	U
assembly	M	skip hoist	M	constant density	U	thickeners	M
belt	M	Laundry Washers		variable density	M	vacuum filters	M
bucket	M	reversing	M	Oil Industry		Slab Pushers	M
chain	M	Laundry Tumblers	M	chillers	M	*Steering Gear	
flight	M	Line Shaft		*oil well pumping		Stokers	U
*live roll		driving processing equipment	M	paraffin filter press	M	Sugar Industry	
oven	M	light	U	rotary kilns	M	*cane knives	M
reciprocating	H	other line shafts	U	Paper Mills		**crushers	M
screw	M	Lumber Industry		agitators(mixers)	M	**mills	H
shaker	H	barkers-hydraulic		barker-auxiliaries-hydraulic	M	Textile Industry	
Cranes(Except for Dry Dock Cranes)		mechanical	H	barker-mechanical	M	batchers	M
main hoists		burner conveyor	M	barking drum	H	calendars	M
*bridge travel		chain saw & drag saw	H	beater & pulper	U	cards	M
*trolley travel		chain transfer	H	bleacher	U	dry cans	M
Crusher		craneway transfer	H	calendars	M	dryers	M
ore	H	de-barking drum	H	calendars-super	H	dyeing machinery	M
stone	H	edger feed	M	converting machine, except cutters,		*knitting machines	
*sugar	M	gang feed	H	platers	M	looms	M
Dredges		green chain	M	conveyors	U	mangles	M
cable reels	M	live rolls	H	couch	M	nappers	M
conveyors	M	log haul-locline	H	cutters-platers	H	pads	M
cutter head drives	H	log haul-well type	H	cylinders	M	*range drives	
jig drives	H	log turning device	H	dryers	M	slashers	M
maneuvering winches	M	main log conveyor	H	Paper Mills		soapers	M
pumps	M	off bearing rolls	M	felt stretcher	M	spinners	M
screen drive	H	planer feed chains	M	felt whipper	H	tenter frames	M
stackers	M	planer floor chains	M	jordan	H	washers	M
utility winches	M	planer tilting hoist	M	log haul	H	winders	M
*Dry Dock Cranes		re-saw merry- go-round conveyor M		presses	U	*Windlass	
		roll cases	H	pulp machine reel	M		
				stock chests	M		

Remarks: \* Refer to factory.      \*\* To be selected on basis of 24hr. service only.

Note: Table above contains reference value. Names and mechanical characteristics of the actual machine may differ from the table above.