Turner Uni-Drive

STANDARD APPLICATION CLASSIFICATIONS

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

SERVICE FACTORS

U represents UNIFORM LOAD
M represents MODERATE SHOCK
H represents HEAVY SHOCK

†Refer to TURNER UNI-DRIVE COMPANY

*To be selected on the basis of 24 hour service only.

**Maximum momentary or starting load must not exceed 200 percent of gear reducer rating (rating meaning Service Factor of 1).

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric Motor	**Occasional ½ hr. per day	0.50	0.80	1.00
	**Intermittent 3 hrs. per day	0.80	1.00	1.25
	Up to 10 hrs. per day	1.00	1.00	1.50
	24 hrs. per day	1.00	1.25	1.75
Multi-Cylinder Internal Combustion Engine	**Occasional ½ hr. per day	0.80	1.00	1.25
	**Intermittent 3 hrs. per day	1.00	1.00	1.50
	8 to 10 hrs. per day	1.00	1.25	1.75
	24 hrs. per day	1.25	1.50	1.75
Single Cylinder Internal Combustion Engine	**Occasional ½ hr. per day	1.00	1.00	1.50
	**Intermittent 3 hrs. per day	1.00	1.25	1.75
	8 to 10 hrs. per day	1.25	1.50	2.00
	24 hrs. per day	1.50	1.75	2.00