

Selection

1) DETERMINE THE CALCULATED TORQUE

 $\frac{9550 \text{ x Absorbed power (kW) x SF}}{\text{Calculated Torque (Nm)} = \text{Absorbed Torque (Nm) x SF}} = \frac{9550 \text{ x Absorbed power (kW) x SF}}{\text{Speed (rpm)}}$

Speed (rpm)

Selection of Service Factor SF:see table below.

2) SELECT

The size of coupling whose rated torque is equal or higher than the calculated.

That selected coupling is compatible with speeds and bores as mentioned on the tables.

APPLICATIONS	SF	APPLICATIONS	SF
AGITATORS *	1	LUMBER INDUSTRY	
		Circular ripsaw	1.75
CEMENT INDUSTRY		Ban ripsaw	1.5
Balls and rods	2	Edger, Head rig Hog	2
Hammer mill or hog	1.75	Log haul	2
Grizzly	2	Rolls, reversing	2
•		Trimmer	1.75
COMPRESSORS			
Centrifugal	1	MACHINE TOOLS	
Rotary	1.25	Miscellaneous, auxiliary*	1
Reciprocating (1 cylinder, single acting)	3	Notching press	1.75
" (1 cylinder, double acting)	3	Planer	1.75
" (2 cylinder, single acting)	3	Main drive	1.5
" (2 cylinder, double acting)	3		
" (3 cylinder, single acting)	3	PAPER INDUSTRY	
" (3 cylinder, double acting)	2	Calender	1.75
" (4 cylinder more, single acting)	1.75	Super-calender	1.75
" (4 cylinder more, double acting)	1.75	Line shaft	1.5
· , , , , ,		Cylinder, dryer, couch, press	1.75
CRUSHERS		Chipper	2.5
Minerals	2.5	Reel, rewinder, winder	1.5
Stone	2.5	Beater, pulper	1.75
		Jordan	2
CONVEYORS		Barking drums (final gearing machined)	2
Belt/screw conveyors	1	Barking drums (cast teeth gear)	2
Apron conveyors	1	Felt stretcher	1.25
Scraper Scraper	1.5	100 30 0000	1.20
Buckets conveyors	1.25	PUMPS	
Suckets conveyors	1.23	Centrifugal	1
CRANES, HOISTS, ELEVATORS*		Gear. Rotary or vane	1.25
Main hoist	1.75	Reciprocating (1 cyl. Dble or single act)	3
Bridge, travel or trolley	1.75	" (2 cyl. Dble act)	1.75
Mach, tools, warehouse	2	" (3 cyl. Dble act)	1.73
Grab-buckets, casting, scraps	2.5	(5 cys. Disc act)	1.5
Filler, pits, strips, ingots	2.5	RUBBER INDUSTRY	
Cranes for general handling	1.75	Calender	2
Cranes for harbor and grab-buckets	2.0	Mixer (Banbury-Werner)	2.5
Charles for flat bor and grab-buckets	2.0	External mixer, mixing mill	2.5
FANS		Super calender	2.5
Blowers centrifugal*	1	зирет сатениет	2.0
Cooling tower fan	2	STEEL WORKS	
Forced draft with slip clutch*	1	Draw bench, wire drawing	2
nduced draft with damper control	1.25	Coilers, uncoilers (at max.torque)	1.5
nduced draft with damper control		Strengtheners flattening	
nduced draft without control	2		2 2
FLOUR MILLING		Wire mills Rod mills	2.5
	1.75	Feed rolls, Blooming mills	
Various type	1./0		3 2
FOOD INDUSTRY		Tube conveyor rolls	
	1 75	CLICAD INDUSTRY	
Beet slicer	1.75	SUGAR INDUSTRY Cane knife and crusher	2
Bottling, can filling mach	·		2
Cookers, continuous duty	1.25	Mill stands turbines driven with helical gears	1.5
CENEDATORS		Mill stands turbines driven with any other prime mover	2
GENERATORS	1	TEVTILE	
Even load	1	TEXTILE	4.5
With overload	2	Miscellaneous	1.5
Welder load	2	Calender, Card machine	1.5
A.C dynamo with hyd. turbine*	1	Printing cylinder WOOD WORKING MACH.	2
I	1	WOOD WORKING MACH	1

^{*} Only Applicable to installations with Maximum Torque less than 1.5 x Coupling Basic Torque.