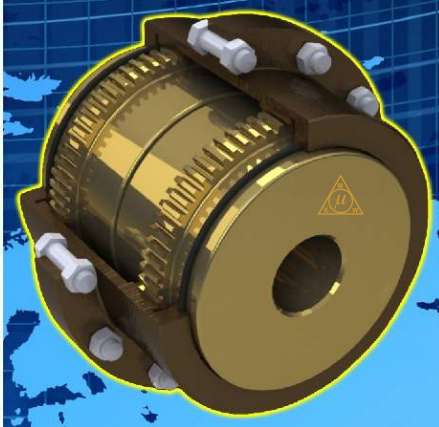


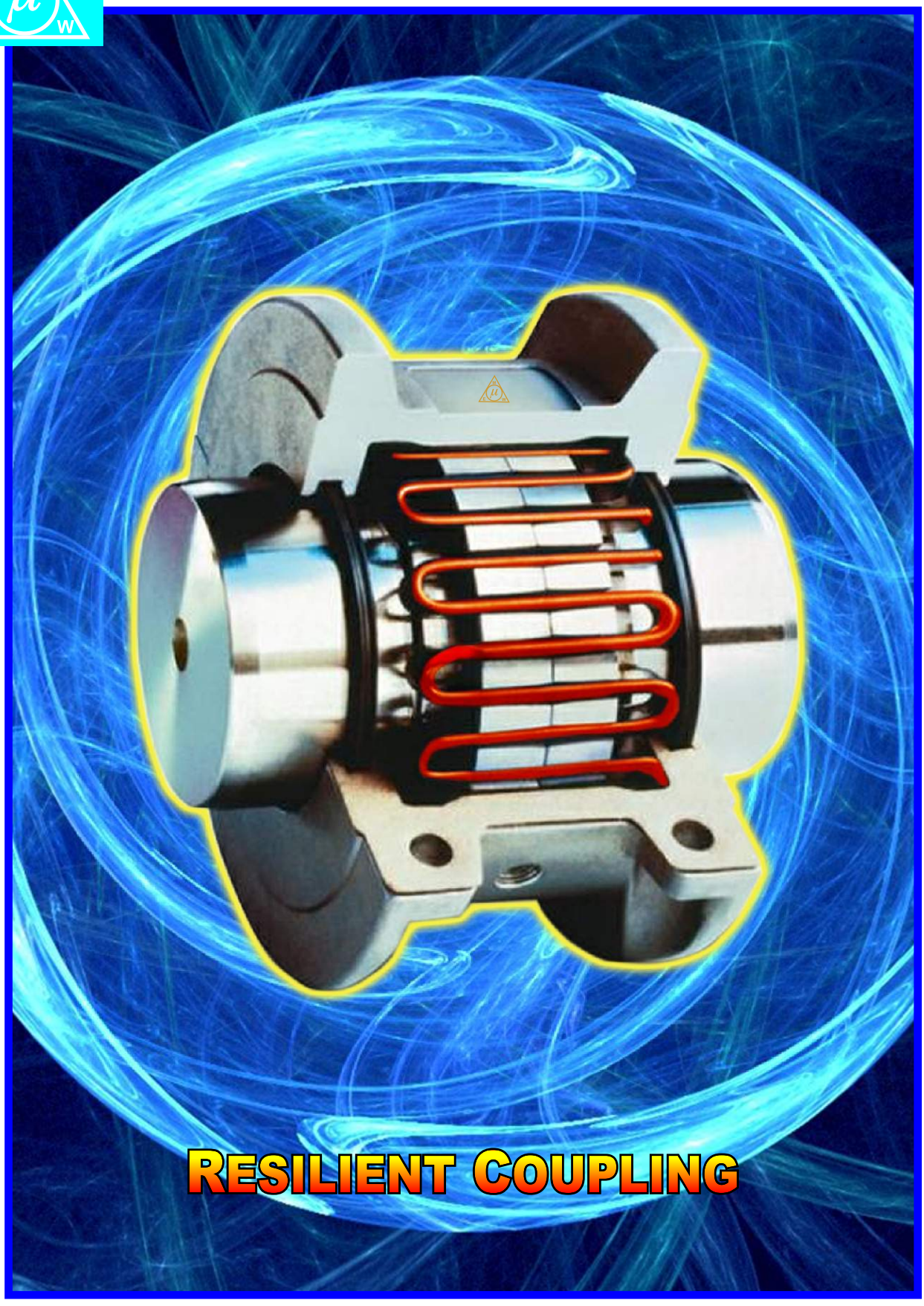
MECHANICAL POWER TRANSMISSION

M E W

μ

MODERN ENGINEERING WORKS

AN ISO 9001 - 2008 Certified Organization


RESILIENT COUPLING

Resilient Couplings For Power Transmission

Resilient Couplings are in use in all types of industrial applications over many years with success. Such a Resilient Coupling comprises mainly two Hubs, Grid, Spring and Covers to protect the Spring. The Spring element is so designed that it provides required resiliency for variable flexibility of a Coupling and considerable damping properties making the coupling very suitable for drives involving high shock loads to the extent of 80%. Misalignment that inevitably supported, is also taken care of by spring element within allowable limits.

Dimensions given in the tables are approximate and pertain to Standard Coupling of MEW range, but tailor - made Couplings with hubs of longer or shorter length, Seals & Grub Screws can also be supplied as per requirement of individual customer.

1. H.P.&R.P.M. of the Drive 2. Types of driving & driven machines 3. Nominal diameters and lengths of shaft extensions of both machines. 4. Dimensional details of finished bores & keyways, if required 5. Any other details relevant to the working conditions of the Drive.

Spare parts

Parts of a Resilient Coupling of particular type are interchangeable with parts of a Coupling of similar type. While ordering out spare Grid Spring or other parts code number / serial number stamped on the Coupling name plate must be furnished to ensure correct supply.

Lubrication

Indian Oil "Servogem 2", or any equivalent grase is recommen ded for use. For Coupling high speed and special application use lubricants as will be recommendced individualy.

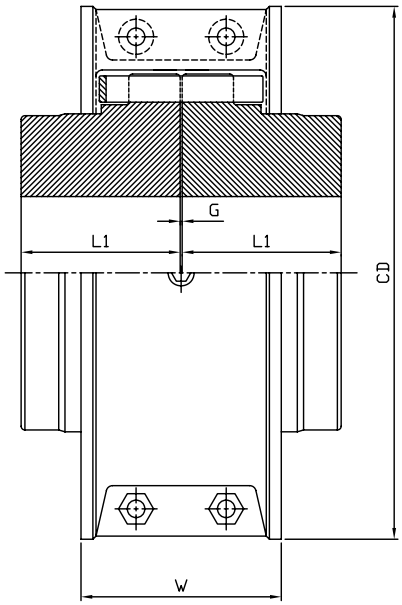
Standard Coupling Types : A,B,C & M Selection of couplings

1. Determine service factor corresponding to the type of application under consideration from the Table of Service Factors.

2. Determine the Maximum Horse Power (Normal rated H.P.X Service Factor of DRIVE).

3. Determine Rating of Coupling = $\frac{\text{Maximum H.P}}{\text{Rated RPM of Drive}}$

4. After having determined the Rating of Coupling, check whether maximum bore and recommended speed of the coupling correspond to the requirement of the drive if the allowable maximum bore is too small, select a larger coupling in case allowable safe speed is too low a different type of Coupling will have to be considered You may refer to MEW for recommendation.

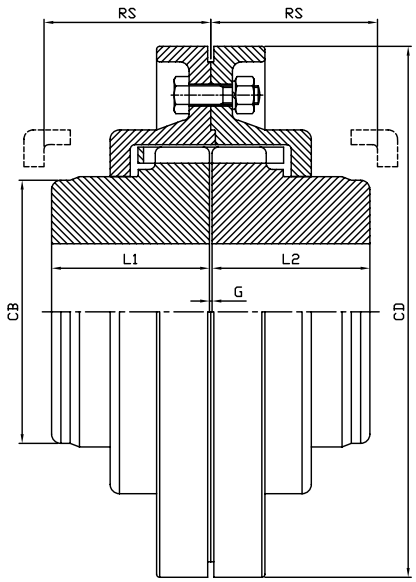


A - TYPE

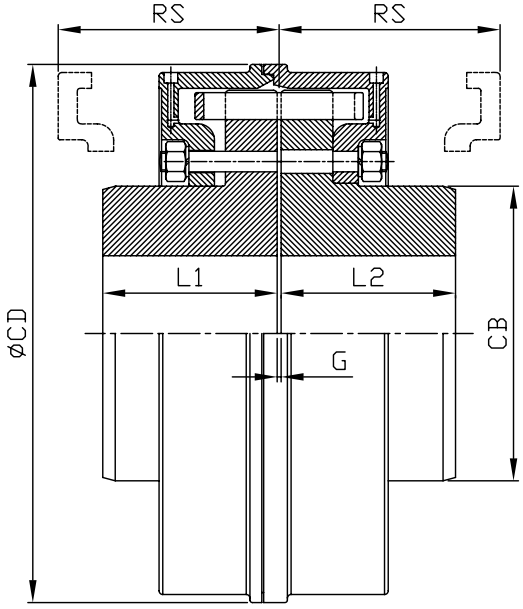
Standard Coupling - Type A

(with axially split covers) for use on horizontal shafts only

Coupling No.	Rating HP/RPM	Clear Dia OD mm	Boss		Cover Width W mm	Gap G mm	Bore		Safe Speed RPM	Approx Weight Kgs
			Length L1 mm	Length L2 mm			Rough mm	Max mm		
MRC 1010	0.006	103.5	37.5	37.5	57.0	0.85	10	29	3600	3.0
MRC 1020	0.010	119.5	37.5	37.5	64.5	0.85	12	38	3350	4.0
MRC 1030	0.020	126.5	44.0	44.0	64.5	0.85	16	41	3350	4.5
MRC 1040	0.030	158.5	50.5	50.5	66.0	0.85	16	57	2575	7.5
MRC 1060	0.045	177.5	50.5	50.5	84.5	0.85	16	54	2350	12.5
MRC 1070	0.065	190.0	56.5	56.5	85.0	0.85	16	64	2150	16.5
MRC 1080	0.095	222.0	63.0	63.0	86.5	0.85	25	78	1850	19.5
MRC 1090	0.125	244.0	69.5	69.5	86.5	0.85	25	92	1650	27.0
MRC 1100	0.185	266.5	88.5	88.5	86.5	0.85	25	108	1575	39.5
MRC 1110	0.355	275.5	101.5	101.5	138.0	1.60	38	102	1450	47.5
MRC 1130	0.455	323.5	101	101	157.0	1.60	50	123	1300	67.5
MRC 1140	0.655	336.0	101	101	157.0	1.60	50	121	1250	74.0
MRC 1150	0.905	380.5	113.5	113.5	159.0	1.60	50	146	1050	108.5
MRC 1170	1.255	425.0	126.5	126.5	160.5	1.60	50	167	950	148.5
MRC 1210	2.405	501.0	139.5	139.5	179.5	3.20	75	202	800	234.0
MRC 1230	3.505	552.0	152.0	152.0	179.5	3.20	85	234	700	318.0



B - TYPE
NO. (MRC1010 to MRC1170)

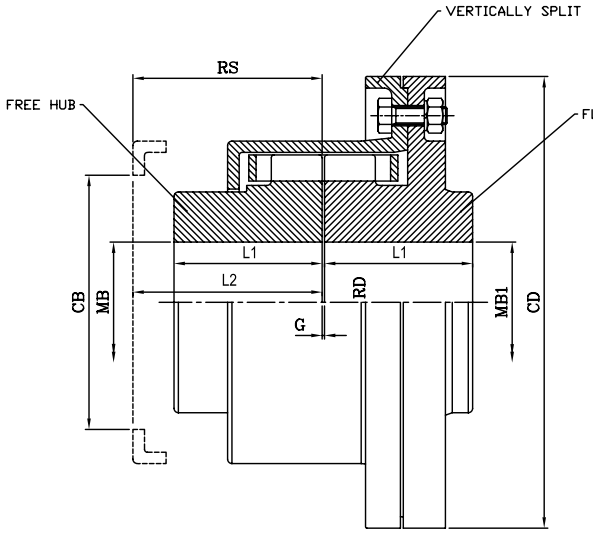


C - TYPE
NO. (MRC1200 to MRC1230)

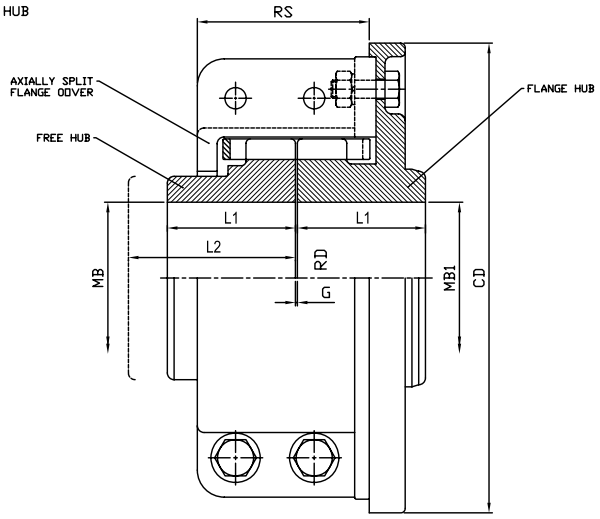
Standard Coupling - Type B & C

(with virtically split covers) for use on horizontal shafts only

Coupling No.	Rating HP/RPM	Clear Dia OD mm	Boss		Removal Space (mm)	Gap G mm	Bore		Cover Bore CB(mm)	Safe Speed RPM	Approx Weight Kgs
			Length L1 mm	Length L2 mm			Rough mm	Max mm			
MRC 1010	0.006	104.5	37.5	37.5	52	0.85	10	29	44.52	5650	3
MRC 1020	0.010	119.5	37.5	37.5	52	0.85	12	38	58.80	4750	4
MRC 1030	0.020	144.0	44.0	44.0	59	0.85	16	41	62.00	4450	5
MRC 1040	0.030	171.0	50.5	50.5	59	0.85	16	47	87.45	3400	9
MRC 1050	0.045	194.5	50.5	50.5	62	0.85	16	55	96.98	3300	11
MRC 1060	0.045	190.0	50.5	50.5	79	0.85	16	54	84.25	3200	11
MRC 1070	0.065	196.5	56.5	56.5	79	0.85	16	64	96.95	2950	15
MRC 1080	0.095	221.5	63.0	63.0	79	0.85	25	78	119.20	2500	20
MRC 1090	0.125	253.5	69.5	69.5	80	0.85	25	92	143.00	2150	27
MRC 1100	0.185	275.5	88.5	88.5	80	0.85	25	108	165.20	1900	43
MRC 1110	0.355	294.5	101.5	101.5	128	1.60	38	102	155.70	1800	54
MRC 1120	0.255	289.5	101.5	101.5	128	1.60	38	102	157.40	1800	52
MRC 1130	0.455	324.0	101.0	101.0	147	1.60	50	123	187.46	1650	63
MRC 1140	0.655	336.0	101.0	101.0	147	1.60	50	121	184.28	1550	72
MRC 1150	0.905	374.5	113.5	113.5	147	1.60	50	146	222.38	1350	104
MRC 1170	1.255	425.0	126.5	126.5	147	1.60	50	167	254.00	1200	149
MRC 1200	1.755	431.5	139.5	139.5	179	3.20	75	157	239.50	1200	175
MRC 1210	2.405	431.5	139.5	139.5	179	3.20	75	157	239.50	1200	180
MRC 1220	2.755	491.5	152.0	152.0	179	3.20	85	173	266.70	1100	207
MRC 1230	3.505	491.5	152.0	152.0	179	3.20	85	173	266.70	1100	216



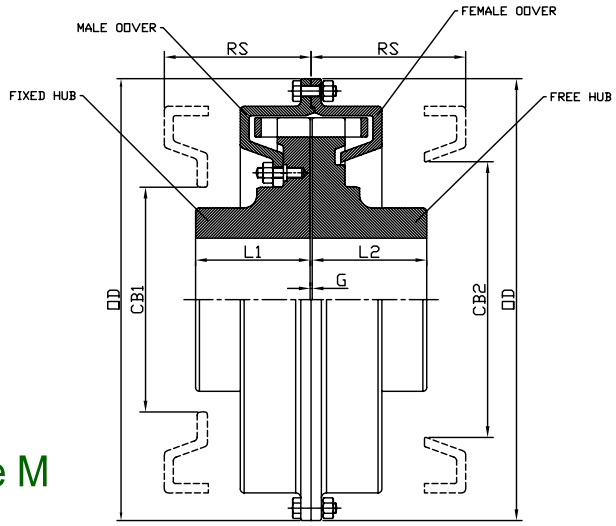
AP & APV - TYPE
(APV with extended Hub)



AC & ACV - TYPE
(ACV with extended Hub)

Standard Coupling
Type AP and APV, AC and ACV

Coupling No.	Rating HP/ RPM	OD mm	Hub Length		Removal Space		Cover Bore CB mm	Maximum Bore		Gap G (mm)	Max Recess Dia RD mm	Safe Speed				Stock Rough Bore	Approx Wt AP/AC
			L1 mm	L2 mm	Width Cb1 mm	Width Cb2 mm		Mb1 mm	Mb2 mm			Apc APcV RPM	Apn APnV RPM	Aps APsV RPM	AC ACV RPM		
MRC 1010	0.006	104.5	37.5	69.5	80	-	41.35	29	25	.85	45	6900	10350	-	-	10	3.5
MRC 1020	0.010	125.5	37.5	69.5	80	-	58.50	38	30	.85	50	5800	8700	-	-	12	4.0
MRC 1030	0.020	151.5	44	79.5	85	60	57.50	41	35	.85	52	5450	8100	11150	3550	16	5.0
MRC 1040	0.030	177.5	50.5	79.5	85	60	76.00	56	49	.85	62	4150	6050	8550	2700	16	9.0
MRC 1060	0.045	192.5	50.5	110.5	87	60	89.00	64	56	.85	70	3750	5450	7600	2550	16	10.0
MRC 1070	0.065	208.5	56.5	113.5	117	81	95.00	64	60	.85	78	3550	5200	7350	2450	16	14.0
MRC 1080	0.095	227.5	63.0	113.5	117	81	118.00	78	75	.85	101	3100	4450	6250	2100	25	20.0
MRC 1090	0.125	262.5	69.5	113.5	117	81	133.50	92	86	.85	111	2650	3750	5350	1800	25	29.0
MRC 1100	0.185	284.5	88.5	140.5	117	81	156.00	108	102	.85	133	2350	3350	4750	1700	25	40.0
MRC 1110	0.355	310.5	101.5	182.5	187	129	156.00	102	102	1.60	130	2250	3250	4600	1550	38	59.0
MRC 1120	0.255	304.5	101.5	175.5	187	129	152.50	102	100	1.60	125	2300	3300	4675	1650	38	56.0
MRC 1130	0.455	348.5	101.0	207.5	217	149	184.00	122	121	1.60	160	1950	2850	3950	1350	50	79.0
MRC 1140	0.655	361.5	101.0	207.5	217	149	187.50	120	123	1.60	158	1850	2700	3757	1300	50	84.0
MRC 1150	0.905	399.5	113.5	207.5	217	149	219.00	146	136	1.60	185	1600	2400	3250	1150	50	118.0
MRC 1170	1.255	437.5	126.5	207.5	217	150	244.50	166	162	1.60	204	1450	2050	3000	1050	50	159.0
MRC 1180	1.650	474.5	138.5	213.5	241	163	266.50	180	175	1.60	245	1350	1850	2750	950	70	180.0
MRC 1190	2.000	532.5	151.5	213.5	241	163	308.00	180	175	1.60	250	1300	1775	2650	900	70	196.0
MRC 1210	2.405	520.5	139.5	224.5	245	170	239.70	157	150	3.20	255	1200	1700	2550	850	75	214.0
MRC 1230	3.505	577.5	152.0	239.5	245	170	266.70	176	165	3.20	261	1050	1500	2250	750	75	275.0



Standard Coupling type M

(with axially split covers)

Coupling No.	Rating HP/RPM	Clear Dia OD mm	Hub Length		Cover Width		Removal Space		Gap G mm	Bore		Safe Speed	Approx Weight KGs
			L1 mm	L2 mm	CB1 mm	CB2 mm	RS1 mm	RS2 mm		Rough	Max		
MRC 1250	5.55	686.5	178	178	349.25	427	210	208	3.20	110	191	1200	408
MRC 1260	7.55	781	203	203	432.50	511	210	208	3.20	135	220	1050	545
MRC 1270	10.55	876	228	288	482.65	573	249	249	6.35	145	242	900	875
MRC 1280	17.55	1015	228	288	622.30	711	286	251	6.35	155	267	800	1570
MRC 1290	21.00	1041	280	280	600.67	680.47	315	315	6.35	175	280	750	1610

AGITATORS	2.0
BLOWERS	2.0
COMPRESSORS	
Centrifugal / Rotary	2.5
CONVEYOR	
Apron, Belt, Chain	1.0
Bucket	2.0
Live Roll, Shaker	3.0
CRANES & HOIST	
Class 1& 2: Hoists	3.0
Bridge, Travel & Trolley	2.5
Class 3 & 4: Hiosts	4.0
Bridge, Travel & Trolley	3.0
CRUSHER	
Stones & Ores	4.0
DYNAMOMETER	2.0
ELEVATORS	
Bucket	2.5
Escalators	2.0
EXTRUDER	
Plastics/Rubber	2.0
FEEDERS	
Apron BeltScrewHorizontal	1.0

GENERATOR	
Even Load	1.7
Hoist or Rly. Service	2.5
Welder Load	2.5
HAMMER MILL	
Cement or Mines	2.5
HAULAGE	
Mining	3.0
KILN	
Rotary for Cement Mining	3.0
Line Shaft	2.0
MACHINE TOOLS	
Main Drive	2.0
Auxilliary Drive	1.5
Traverse Drive	1.5
Bending Roll, Notching Press,	
Punch Press,Planer,	
Plate -Reversing	3.0
MIXERS	
Concrete & Muller	2.5
*PAPER MILL	1 - 5

FANS	
Cooling Tower & Mine	2.5
Industrial	2.0
PUMPS	
Centrifugal Even Load	1.25
Centrifugal Under Load	1.75
Gear Rotary or Vane	2.0
Reciprocating 1 or 2 Cyl	3.0
Reciprocating 3 or more Cyl	2.5
RUBBER INDUSTRY	
Mixing Mill Refiner	3.0
Worming Mill	2.5
Others	1.5 -3
SCREENS	
Rotary Coal or Sand	2.0
Vibrating	3.5
*STEEL MILLS/ROLLING MILLS	2 - 6
STOKER	1.5
TURBO GENERATOR	1.25
WINCH, MANEUVERING	
Dredge, marine	2.0
WOOD WORKING MACHINERY	1.5

* Drives in Paper Mills and Steel Mills are of so diverse nature that each application need to be considered separately. Hence full details of drive requirement must be referred to MEW for recommendation.

OUR OTHER PRODUCT

SHEET METAL PRODUCT

WHEEL & AXLES

GEAR BOX

HOPPER

HEAT EXCHANGER

PRESSURE VESSEL

OUR OTHER PRODUCT

CONVEYOR PULLEY WITH RING FEEDER

SHAFT

ROPE DRUM

NUT & BOLT

IMPELLER CASING

IMPELLER

OUR OTHER PRODUCT
FOR MATERIAL HANDLING EQUIPMENT
CONVEYOR PULLEY & IDLER

MODERN ENGINEERING WORKS

AN ISO 9001 - 2008 Certified Unit

The Certification Bodies :
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