Chain Power Transmission Tables

Power Transmission capacities of the KCM products shown in this catalog are determined under the following conditions:

1) Operation at – 10℃ to +60℃ in the atmosphere free from abrasive dirt.
2) No corrosive gas and high humidity.
3) Two sprockets on which roller chain is mounted are properly aligned on parallel and level shafts.
4) Use of lubricant and lubrication method.
5) Less loading variations.

Multiple strand factor (Table 1)

Power transmission capacity of multiple strand roller chain is not equal to the number of strands times that of single strand roller chain, because the load is not evenly distributed to respective strands of roller chains. Therefore, power transmission capacity of multiple strand roller chain is determined by multiplying that of single strand roller chain by multiple strand factor.

Service factor (Table 2)

Actual power transmission capacity is adjusted according to the degree of loading variations, because the power transmission capacity tables are prepared on condition that loading variations are small.

Table 1: Multiple Strand Factor

No. of Chain Strands	Multiple Strand factor
2 strands	1.7
3 strands	2.5
4 strands	3.3
5 strands	3.9
6 strands	4.6

Table 2: Service Factor

Load	Prime mover / Driven machine	Motor turbine	Combustion engine	
			W/hyd. equipment	W/o hyd. equipment
Smooth loading	Belt conveyor, subjected to small loading variation, chain conveyor, centrifugal pump, centrifugal blower, textile machine and other machinery subjected to small loading variation.	1.0	1.0	1.2
With some shocks	Centrifugal compressor, marine propulsion system, conveyer subjected to some loading variations, automatic furnace, drier, crusher, machine tool , compressor, construction and civil engineering machinery, and papermaking machine	1.3	1.2	1.4
With heavy shocks	Press, crusher, mining machinery, vibratory machine, oil-well machinery, rubber mixer, roll, roll gang, and other machinery subjected to reversing load or heavy shock.	1.5	1.4	1.7

Quick Selection Chart

How to Use:

EXAMPLE: Single strand roller chain with 5kW compensated chain drive power.

1. When smaller sprocket speed is 100 r/min

   Find the intersection of 5kW vertical line of the compensated chain drive power and 100 r/min horizontal line of the smaller sprocket speed in the quick selection chart. You'll find that the chain is KCM80, and number of sprocket teeth is between 16T and 20T, judging as 17T from the exact location of the intersection.

2. When smaller sprocket speed is 300 r/min

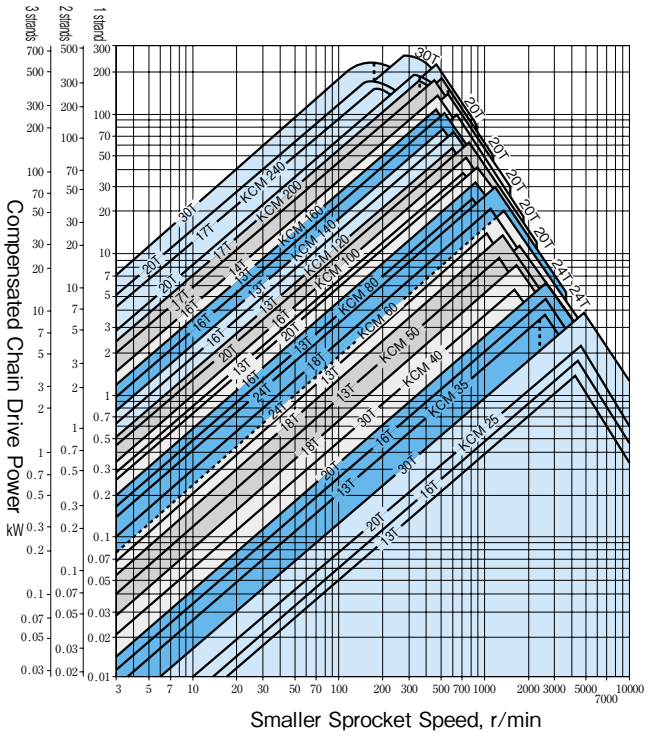
   1) Find the intersection in the same way as 1, you'll find that the chain is KCM60, and number of sprocket teeth is 13T to 18T, judging as 15T from the exact location of the intersection that is closed to 13T. Also, you'll find that there is KCM50-24T line (dotted) near this intersection. This means you can use either KCM60-15T and KCM50-24T.

   After tentatively making quick selection with this chart confirm the selected sprocket is appropriate with reference to the power transmission capacity tables.

   2) For power transmission capacity lines of 20T, 24T, and 30T, only its high speed portions are shown to simplify the quick selection chart. For lower speed portions, extend a line in parallel to the lines, just like a dotted line of KCM50-24T.

   3) For chain speeds of 50 m/min or lower, it is economical to make selection by "Low speed selection method" described later.

Table 3: Quick Selection Chart



Chain Power Transmission Table (kW)

K.C.M.80(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2700	3000	3400
9	0.25	0.58	1.08	2.02	2.91	3.77	5.43	7.03	8.58	10.1	11.6	13.1	12.7	10.8	9.40	8.21	6.53	5.35	4.48	3.83	3.32	2.91	2.44	2.08	1.73
10	0.28	0.65	1.22	2.26	3.26	4.22	6.09	7.91	9.62	11.3	13.1	14.7	14.8	12.7	11.0	9.62	7.68	6.27	5.25	4.48	3.89	3.41	2.86	2.44	2.02
11	0.31	0.72	1.34	2.51	3.61	4.68	6.74	8.73	10.7	12.6	14.5	16.3	17.2	14.6	12.7	11.1	8.80	7.23	6.06	5.17	4.48	3.93	3.30	2.81	1.27
12	0.35	0.79	1.48	2.75	3.97	5.14	7.41	9.62	11.7	13.8	15.9	17.9	19.5	16.6	14.5	12.7	10.1	8.21	6.90	5.89	5.11	4.48	3.76	3.21	0
13	0.38	0.87	1.61	3.01	4.33	5.61	8.06	10.4	12.8	15.1	17.3	19.5	21.7	18.8	16.3	14.3	11.3	9.33	7.76	6.65	5.76	5.06	4.24	3.62	0
14	0.41	0.93	1.75	3.25	4.69	6.07	8.73	11.3	13.9	16.3	18.7	21.2	23.5	21.0	18.2	16.0	12.7	10.4	8.73	7.43	6.44	5.65	4.74	4.04	0
15	0.44	1.01	1.88	3.51	5.05	6.54	9.40	12.2	14.9	17.6	20.2	22.8	25.4	23.3	20.2	17.8	14.1	11.5	9.62	8.21	7.14	6.27	5.25	4.48	0
16	0.47	1.08	2.01	3.76	5.42	7.02	10.1	13.1	16.0	18.9	21.6	24.5	27.2	25.7	22.2	19.5	15.5	12.7	10.6	9.10	7.83	6.90	5.79	4.94	0
17	0.51	1.16	2.15	4.01	5.78	7.46	10.8	14.0	17.1	20.1	23.1	26.1	29.0	28.1	24.4	21.4	16.9	13.9	11.6	9.92	8.58	7.53	6.33	5.41	0
18	0.54	1.22	2.29	4.27	6.15	7.98	11.5	14.8	18.2	21.4	24.6	27.8	30.9	30.7	26.6	23.3	18.5	15.1	12.7	10.8	9.40	8.21	6.90	5.89	0
19	0.57	1.30	2.42	4.53	6.52	8.43	12.2	15.7	19.2	22.7	26.1	29.4	32.7	33.2	28.8	25.3	20.1	16.4	13.7	11.7	10.1	8.95	7.46	6.39	0
20	0.60	1.37	2.57	4.78	6.89	8.95	12.8	16.6	20.4	24.0	27.6	31.1	34.5	35.9	31.1	27.3	21.6	17.8	14.8	12.7	11.0	9.62	8.06	0	
21	0.63	1.45	2.70	5.04	7.27	9.40	13.6	17.5	21.5	25.3	29.1	32.7	36.5	38.6	33.4	29.4	23.3	19.1	16.0	13.7	11.9	10.4	8.73	0	
22	0.67	1.52	2.84	5.30	7.61	9.92	14.2	18.5	22.6	26.6	30.6	34.5	38.3	41.4	35.9	31.5	25.0	20.4	17.2	14.6	12.7	11.1	9.33	0	
23	0.70	1.60	2.98	5.57	7.98	10.4	15.0	19.4	23.7	27.9	32.1	36.2	40.2	44.2	38.3	33.6	26.7	21.9	18.4	15.7	13.6	11.9	10.0	0	
24	0.73	1.67	3.13	5.83	8.43	10.9	15.7	20.3	24.8	29.2	33.6	37.9	42.1	46.3	40.9	35.9	28.5	23.3	19.5	16.6	14.5	12.7	10.6	0	
25	0.77	1.75	3.26	6.09	8.80	11.3	16.3	21.2	25.9	30.9	35.1	39.5	44.0	48.4	43.4	38.1	30.3	24.8	20.7	17.8	15.4	13.5	11.3	0	
26	0.80	1.83	3.40	6.36	9.18	11.9	17.1	22.2	27.0	31.9	36.6	41.3	45.9	50.4	46.1	40.4	32.1	26.3	22.0	18.8	16.3	14.3	12.0	0	
28	0.87	1.98	3.69	6.89	9.92	12.8	18.5	23.9	29.3	34.5	39.7	44.7	49.8	54.7	51.5	45.2	35.9	29.4	24.6	21.0	18.2	16.0	0		
30	0.93	2.13	3.98	7.42	10.7	13.8	19.9	25.8	31.6	37.2	42.7	48.2	53.6	58.9	57.1	50.1	39.8	32.5	27.3	23.3	20.2	17.8	0		
32	1.00	2.28	4.26	7.98	11.4	14.8	21.3	27.7	33.9	39.9	45.8	51.6	57.4	63.1	62.9	55.2	43.8	35.9	30.1	25.7	22.2	19.5	0		
35	1.10	2.51	4.69	8.73	12.6	16.3	23.6	30.5	37.3	43.9	50.4	56.9	63.3	69.6	72.0	63.2	50.1	41.0	34.4	29.4	25.4	0			
40	1.28	2.90	5.42	10.1	14.5	18.9	27.2	35.2	43.0	50.7	58.3	65.7	73.9	80.6	87.3	76.8	61.3	50.1	42.0	35.9	14.9	0			
45	1.45	3.30	6.15	11.5	16.6	21.4	30.9	40.0	48.9	57.6	66.2	74.6	82.8	91.0	99.2	91.8	73.1	59.8	50.1	40.3	0				
Lubrication Type	A		B						C																

K.C.M.100(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600	2700
9	0.48	1.11	2.07	3.87	5.57	7.22	10.4	13.5	16.5	19.4	22.1	18.1	15.1	13.0	11.2	9.85	8.73	7.83	6.39	5.36	4.57	3.97	3.48	3.09	0
10	0.54	1.25	2.32	4.33	6.24	8.06	11.6	15.1	18.4	21.8	25.0	21.2	17.8	15.1	13.1	11.6	10.2	9.18	7.46	6.28	5.36	4.65	4.08	3.62	0
11	0.60	1.38	2.57	4.80	6.92	8.95	12.9	16.7	20.4	24.1	27.7	24.5	20.5	17.5	15.1	13.3	11.8	10.6	8.65	7.24	6.19	5.36	4.71	0.96	0
12	0.66	1.51	2.83	5.28	7.61	9.85	14.2	18.4	22.5	26.5	30.4	27.8	23.3	19.9	17.3	15.1	13.4	12.0	9.85	8.28	7.05	6.11	5.36	0	
13	0.72	1.66	3.08	5.76	8.28	10.7	15.4	20.1	24.5	28.9	33.2	31.4	26.3	22.5	19.5	17.1	15.1	13.6	11.1	9.33	7.91	6.89	6.04	0	
14	0.78	1.79	3.34	6.24	8.95	11.6	16.8	21.7	26.6	31.3	36.0	35.1	29.4	25.1	21.8	19.1	16.9	15.1	12.4	10.4	8.88	7.68	6.75	0	
15	0.84	1.93	3.60	6.72	9.70	12.5	18.1	23.4	28.6	33.7	38.7	38.9	32.6	27.8	24.2	21.2	18.8	16.8	13.7	11.6	9.85	8.50	7.46	0	
16	0.91	2.07	3.86	7.21	10.4	13.4	19.4	25.1	30.7	36.1	41.5	42.9	36.0	30.7	26.6	23.4	20.7	18.5	15.1	12.7	10.8	9.40	8.28	0	
17	0.97	2.21	4.12	7.68	11.0	14.3	20.7	26.8	32.7	38.6	44.3	47.0	39.4	33.6	29.1	25.6	22.7	20.3	16.6	14.0	11.9	10.3	0.59	0	
18	1.03	2.35	4.39	8.21	11.8	15.3	22.0	28.5	34.8	41.0	47.1	51.2	42.9	36.6	31.7	27.8	24.7	22.1	18.1	15.1	13.0	11.2	0		
19	1.09	2.49	4.65	8.65	12.5	16.2	23.3	30.2	36.9	43.5	50.0	55.5	46.5	39.7	34.4	30.2	26.8	23.9	19.6	16.4	14.0	12.2	0		
20	1.16	2.63	4.91	9.18	13.2	17.1	24.6	31.9	39.0	46.0	52.8	59.5	50.2	42.9	37.2	32.6	28.9	25.9	21.2	17.8	15.1	13.1	0		
21	1.22	2.78	5.18	9.70	14.0	18.1	26.0	33.6	41.1	48.5	55.7	62.8	54.0	46.1	40.0	35.1	31.1	27.8	22.8	19.1	16.3	14.2	0		
22	1.28	2.92	5.45	10.1	14.6	18.9	27.3	35.4	43.3	51.0	58.6	66.0	58.0	49.5	42.9	37.6	33.3	29.8	24.5	20.5	17.5	15.1	0		
23	1.34	3.06	5.71	10.7	15.4	19.9	28.6	37.2	45.4	53.5	61.4	69.2	61.9	52.9	45.8	40.2	35.7	31.9	26.1	21.9	18.7	5.77	0		
24	1.40	3.21	5.98	11.2	16.0	20.8	30.0	38.9	47.5	56.0	64.3	72.5	66.0	56.4	48.9	42.9	38.1	34.0	27.8	23.4	19.9	0			
25	1.47	3.35	6.25	11.6	16.8	21.8	31.3	40.6	49.7	58.5	67.2	76.1	70.2	59.9	51.9	45.6	40.4	36.2	29.6	24.8	21.2	0			
26	1.53	3.49	6.52	12.2	17.5	22.7	32.7	42.4	51.8	61.0	70.1	79.1	74.5	63.6	55.1	48.3	42.9	38.3	31.4	26.3	22.5	0			
28	1.66	3.78	7.06	13.2	19.0	24.6	35.4	45.9	56.1	66.1	76.1	85.8	83.6	71.0	61.6	54.0	47.9	42.9	35.1	29.4	25.1	0			
30	1.79	4.08	7.61	14.2	20.4	26.5	38.2	49.5	60.4	71.2	82.1	92.5	92.5	79.1	68.3	59.9	53.1	47.5	38.9	32.6	7.46	0			
32	1.92	4.37	8.13	15.2	21.9	28.4	41.0	53.0	64.8	76.1	88.0	99.2	101	86.5	75.3	66.0	58.6	52.4	42.9	33.7	0				
35	2.11	4.82	8.95	16.8	24.2	31.3	45.1	58.4	71.4	84.3	97.0	109	116	99	85.8	75.3	67.0	59.9	49.1	41.1	0				
40	2.44	5.57	10.4	19.4	27.9	36.2	52.1	67.4	82.8	97.0	112	126	140	122	105	92.5	82.1	73.2	59.9	0					
45	2.77	6.32	11.8	22.0	31.7	41.0	59.2	76.8	94.0	110	127	143	159	145	125	110	97.7	87.3	33.8	0					
Lubrication Type	A		B				C																		

Lubrication Type A: Lubrication - Manual Oil Drip
B: Lubrication - Oil Bath
C: Lubrication - Oil Pump
See Lubrication Instructions on page 25.

See pages 21 to 24 for details on selecting chains or multiple strand roller chains.
For optimum results, consult KCM Chain for drives operating in the SHADED ZONE.

Chain Power Transmission Table (kW)

K.C.M.120(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
9	0.82	1.88	3.50	6.53	9.40	12.2	17.5	22.8	27.8	32.2	25.6	21.0	17.5	15.0	13.0	11.4	10.1	9.03	8.13	7.40	6.76	6.20	5.72	5.30	4.92
10	0.93	2.10	3.92	7.32	10.5	13.7	19.7	25.5	31.2	36.7	29.9	24.5	20.5	17.5	15.2	13.4	11.9	10.6	9.55	8.65	7.91	7.27	6.70	6.20	5.77
11	1.02	2.33	4.35	8.13	11.7	15.1	21.8	28.3	34.5	40.7	34.5	28.3	23.7	20.2	17.5	15.4	13.7	12.2	11.0	10.0	9.10	8.36	7.76	7.16	0
12	1.12	2.56	4.77	8.88	12.8	16.6	23.9	31.0	38.0	44.7	39.4	32.2	27.0	23.1	20.0	17.5	15.6	14.0	12.5	11.4	10.4	9.55	8.80	8.13	0
13	1.22	2.79	5.21	9.70	14.0	18.1	26.1	33.9	41.4	48.7	44.4	36.3	30.4	26.0	22.5	19.8	17.5	15.7	14.2	12.8	11.7	10.7	9.92	9.18	0
14	1.33	3.02	5.64	10.5	17.2	19.6	28.3	36.6	44.8	52.8	49.6	40.6	34.0	29.1	25.2	22.1	19.6	17.5	15.8	14.3	13.1	12.0	11.1	6.67	0
15	1.42	3.26	6.08	11.3	16.3	21.2	30.5	39.5	48.3	56.9	55.1	45.1	37.8	32.2	27.9	24.5	21.7	19.5	17.5	15.9	14.5	13.4	12.3	0	
16	1.53	3.49	6.52	12.2	17.5	22.7	32.7	42.4	51.8	61.0	60.6	49.6	41.6	35.5	30.8	27.0	23.9	21.4	19.3	17.5	16.0	14.7	13.6	0	
17	1.63	3.73	6.96	13.0	18.7	24.2	34.9	45.2	55.3	65.1	66.4	54.3	45.5	38.9	33.7	29.5	26.3	23.5	21.2	19.2	17.5	16.1	14.8	0	
18	1.74	3.97	7.40	13.8	19.9	25.8	37.2	48.1	58.8	69.3	72.4	59.2	49.6	42.4	36.7	32.2	28.6	25.6	23.1	21.0	19.1	17.5	8.43	0	
19	1.84	4.21	7.83	14.6	21.1	27.3	39.4	51.0	62.4	73.5	78.3	64.2	53.8	46.0	39.8	34.9	31.0	27.8	25.0	22.7	20.7	19.0	0		
20	1.95	4.45	8.28	15.4	22.3	28.9	41.6	53.9	65.9	77.6	85.0	69.3	58.1	49.6	43.0	37.8	33.5	29.9	27.0	24.5	22.4	20.5	0		
21	2.05	4.68	8.73	16.3	23.5	30.4	43.9	56.8	69.5	82.1	91.0	74.6	62.5	53.4	46.3	40.6	36.0	32.2	29.1	26.4	24.1	22.1	0		
22	2.16	4.92	9.18	17.2	24.7	32.0	46.1	59.8	73.0	85.8	97.7	79.8	67.1	57.2	49.6	43.6	38.6	34.5	31.2	28.3	25.8	12.4	0		
23	2.27	5.17	9.62	18.0	26.0	33.6	48.4	62.7	76.8	90.3	104	85.8	71.7	61.2	53.0	46.6	41.3	36.9	33.3	30.2	27.6	0			
24	2.37	5.41	10.1	18.9	27.2	35.1	50.7	65.6	80.6	94.7	109	91.0	76.1	65.2	56.6	49.6	44.0	39.4	35.5	32.2	29.4	0			
25	2.48	5.65	10.5	19.7	28.3	36.8	53.0	68.6	83.6	98.5	113	97.0	81.3	69.3	60.1	52.7	46.8	41.9	37.8	34.2	30.8	0			
26	2.59	5.90	11.0	20.5	29.6	38.3	55.2	71.5	87.3	103	119	103	85.8	73.6	63.7	56.0	49.6	44.4	40.1	36.3	19.8	0			
28	2.80	6.39	11.9	22.2	32.1	41.6	59.8	77.6	94.7	112	128	115	96.2	82.1	71.3	62.5	55.4	49.6	44.8	40.6	0				
30	3.02	6.89	12.8	23.9	34.5	44.8	64.5	83.6	102	120	138	128	107	91.0	79.1	69.3	61.5	55.1	49.6	31.6	0				
32	3.24	7.39	13.8	25.7	37.0	48.0	69.1	90.0	110	129	148	140	118	101	87.3	76.1	67.7	60.7	54.9	0					
35	3.57	8.13	15.1	28.3	40.8	52.9	76.1	98.5	121	142	163	160	134	115	99.2	87.3	77.6	69.3	35.6	0					
40	4.12	9.40	17.5	32.7	47.1	61.0	88.0	114	140	164	189	196	164	140	122	107	94.7	44.4	0						
45	4.68	10.7	19.9	37.2	53.5	69.3	100	129	158	187	214	234	196	167	145	128	59.7	0							
Lubrication Type	A	B					C																		

K.C.M.140(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
9	1.28	2.90	5.42	10.1	14.5	18.9	23.1	27.2	31.1	35.2	39.2	43.0	41.6	36.5	28.9	23.7	19.8	16.9	14.7	12.9	11.4	10.2	9.25	8.36	7.61
10	1.42	3.25	6.07	11.3	16.3	21.1	25.8	30.4	35.0	39.5	43.9	48.2	48.6	42.7	33.9	27.8	23.3	19.8	17.2	15.1	13.4	12.0	10.8	9.77	0
11	15.8	3.60	6.73	12.5	18.1	22.4	28.6	33.2	38.8	43.7	48.6	53.4	56.1	49.2	39.1	32.0	26.8	22.9	19.8	17.4	15.4	13.8	12.5	11.3	0
12	1.74	3.96	7.39	13.8	19.8	25.7	31.5	37.1	42.6	48.0	53.4	58.7	63.9	56.1	44.5	36.5	30.6	26.1	22.6	19.8	17.6	15.7	14.2	12.9	0
13	1.89	4.08	8.06	15.1	21.6	28.0	34.3	40.4	46.4	52.4	58.2	64.0	69.8	63.3	50.2	41.1	34.5	29.4	25.5	22.4	19.8	17.8	16.0	14.5	0
14	2.05	4.68	8.06	16.3	23.5	30.4	37.2	43.8	50.3	56.7	63.0	69.4	75.3	70.7	56.1	46.0	38.5	32.9	28.5	25.0	22.2	19.8	17.9	16.3	
15	2.21	5.04	9.40	17.5	25.3	32.7	40.1	47.1	54.2	61.1	68.0	74.6	81.3	78.3	62.2	51.0	42.7	36.5	31.6	27.8	24.6	22.0	19.8	0	
16	2.37	5.40	10.1	18.8	27.1	35.1	42.9	50.6	58.1	65.5	72.9	79.8	87.3	86.5	68.6	56.1	47.1	40.1	34.8	30.6	27.1	24.2	21.9	0	
17	2.53	5.77	10.7	20.1	28.9	37.5	45.8	54.0	62.1	70.0	77.6	85.8	93.3	94.7	75.3	61.5	51.6	44.0	38.1	33.5	29.7	26.6	23.9	0	
18	2.69	6.14	11.5	21.3	30.8	39.9	48.7	57.4	66.0	74.5	82.8	91.0	99.2	103	82.1	67.0	56.1	47.9	41.6	36.5	32.3	28.9	26.1	0	
19	2.85	6.51	12.2	22.7	32.6	42.3	51.7	60.9	70.0	79.1	88.0	96.2	105	112	88.8	72.7	60.9	52.0	45.1	39.5	35.1	31.4	28.3	0	
20	3.01	6.88	12.8	23.9	34.5	44.7	54.6	63.4	73.9	83.6	92.5	102	111	120	95.5	78.3	65.7	56.1	48.6	42.7	37.9	33.9	0		
21	3.18	7.25	13.5	25.2	36.3	47.1	57.6	67.9	77.6	88.0	97.7	107	117	127	103	84.3	70.7	60.4	52.4	46.0	40.7	36.5	0		
22	3.34	7.61	14.3	26.6	38.3	49.5	60.6	71.3	82.1	92.5	103	113	123	133	110	90.3	76.1	64.8	56.1	49.2	43.7	39.1	0		
23	3.51	7.98	14.9	27.8	40.1	52.0	63.6	74.6	85.8	97.0	108	119	129	140	118	97.0	81.3	69.2	60.0	52.7	46.1	41.8	0		
24	3.67	8.36	15.6	29.2	42.0	54.4	66.5	78.3	90.3	101	113	124	135	146	126	103	86.5	73.8	63.9	56.1	49.8	44.5	0		
25	3.83	8.73	16.3	30.4	43.9	56.8	69.5	82.1	94.0	106	118	130	141	153	134	110	91.8	78.3	68.0	59.7	52.9	47.4	0		
26	4.01	9.10	17.0	31.8	45.8	59.3	72.5	85.8	98.5	110	123	135	148	160	142	116	97.7	83.6	72.1	63.3	56.1	0			
28	4.33	9.92	18.4	34.5	49.6	64.3	78.3	92.5	107	120	134	147	160	173	159	130	109	93.2	80.6	70.7	62.7	0			
30	4.67	10.7	19.9	37.1	53.4	69.2	84.3	100	115	129	144	158	172	186	176	144	121	103	89.5	78.3	69.5	0			
32	5.01	11.4	21.3	39.8	57.3	74.2	91.0	107	123	139	154	169	184	199	194	159	133	113	98.5	86.5	0				
35	5.52	12.6	23.5	43.8	63.1	82.1	100	118	135	153	169	187	203	220	222	181	152	130	113	97.0	0				
40	6.37	14.5	27.2	50.7	72.9	94.7	116	136	157	176	196	216	235	254	271	222	186	159	133	0					
45	7.24	16.5	30.8	57.5	82.8	107	131	154	178	200	222	245	266	289	324	265	222	177	69.2	0					
Lubrication Type	A	B					C																		

Lubrication type: A: Lubrication - Manual Oil Drip
B: Lubrication - Oil Bath
C: Lubrication - Oil Pump
See Lubrication Instructions on page 25.

See pages 21 to 24 for details on selecting chains or multiple strand roller chains.
For optimum results, consult KCM Chain for drives operating in the SHADED ZONE.

Chain Power Transmission Table (kW)

K.C.M.160(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400
9	1.85	4.21	7.83	14.7	21.1	27.4	33.4	39.4	45.3	51.1	56.8	53.3	46.3	40.6	36.0	32.2	29.0	26.3	24.0	22.1	18.9	16.3	14.3	12.7	0
10	2.07	4.72	8.80	16.4	23.6	30.7	37.5	44.2	50.7	57.2	63.6	62.4	54.2	47.5	42.2	37.7	34.0	30.9	28.2	25.9	22.1	19.2	16.8	14.9	0
11	2.29	5.23	9.77	18.2	26.3	34.0	41.6	48.9	56.2	63.4	70.5	72.1	62.4	54.8	48.6	43.5	39.2	35.6	32.5	29.8	25.4	22.1	19.4	17.2	0
12	2.52	5.74	10.7	20.0	28.8	37.4	45.7	53.8	61.8	69.7	77.6	82.1	71.2	62.4	55.4	49.5	44.7	40.6	37.0	34.0	29.0	25.1	22.1	19.6	0
13	2.75	6.27	11.7	21.8	31.4	40.7	49.8	58.6	67.4	76.1	84.3	92.5	80.6	70.5	62.4	55.9	50.4	45.7	41.8	38.3	32.7	28.4	24.9	22.1	0
14	2.98	6.79	12.7	23.6	34.0	44.1	53.9	63.9	73.0	82.1	91.8	101	89.5	78.3	69.8	62.4	56.3	51.1	46.7	42.8	36.6	31.7	27.8	24.7	0
15	3.21	7.31	13.7	25.4	36.7	47.5	58.1	68.4	78.3	88.8	98.5	108	99.2	87.3	77.6	69.2	62.4	56.7	51.8	47.5	40.6	35.1	30.9	0	
16	3.44	7.83	14.6	27.3	39.3	51.0	62.3	73.4	84.3	94.7	106	116	110	96.2	85.0	76.1	68.8	62.4	57.0	52.4	44.7	38.7	34.0	0	
17	3.62	8.36	15.6	29.2	42.0	54.4	66.5	78.3	90.3	101	113	124	120	105	93.3	83.6	75.3	68.4	62.4	57.3	48.9	42.5	37.2	0	
18	3.90	8.88	16.6	31.0	44.7	57.9	70.7	83.6	95.5	108	120	132	131	115	101	91.0	82.1	74.5	68.0	62.4	53.3	46.3	40.6	0	
19	4.14	9.47	17.6	32.9	47.4	61.3	75.3	88.0	101	114	128	140	142	125	110	98.5	88.8	80.6	73.8	67.7	57.8	50.1	44.0	0	
20	4.37	10.0	18.7	34.8	50.0	64.8	79.1	93.3	107	121	134	148	153	134	119	107	96.2	87.3	79.8	73.2	62.4	54.2	47.5	0	
21	4.61	10.5	19.6	36.6	52.7	68.3	83.6	98.5	113	128	142	156	165	145	128	115	104	94.0	85.8	78.3	67.2	58.3	51.1	0	
22	4.85	11.0	20.7	38.5	55.5	71.8	88.0	104	119	134	149	164	177	155	137	123	111	101	91.8	84.3	72.1	62.4	0		
23	5.09	11.6	21.6	40.4	58.2	75.3	92.5	109	125	141	157	172	187	166	147	131	119	107	98.5	90.3	76.8	66.8	0		
24	5.33	12.2	22.7	42.3	60.9	79.1	96.2	113	131	147	164	180	196	177	157	140	126	115	104	96.2	82.1	71.2	0		
25	5.57	12.7	23.7	44.2	63.7	82.8	101	119	137	154	171	188	205	188	166	149	134	122	111	102	87.3	75.3	0		
26	5.80	13.3	24.7	46.1	66.5	85.8	105	124	142	160	178	196	214	199	177	158	143	129	118	108	92.5	80.6	0		
28	6.29	14.3	26.8	50.0	72.0	93.3	114	134	154	174	193	213	232	222	198	177	160	145	121	121	104	89.5	0		
30	6.77	15.4	28.9	53.9	77.6	101	123	145	166	187	208	229	251	247	219	196	177	160	146	134	115	0			
32	7.27	16.6	31.0	57.7	82.8	107	131	155	178	201	224	245	268	272	241	216	195	177	161	148	126	0			
35	7.98	18.3	34.1	63.6	91.8	119	145	171	196	222	246	271	295	311	276	247	222	202	184	169	134	0			
40	9.25	21.1	39.4	73.5	106	137	168	198	227	256	284	313	341	369	337	301	272	247	225	192	0				
45	10.5	23.9	44.7	83.6	120	156	190	225	257	290	323	355	387	419	402	360	312	260	202	141	0				
Lubrication Type	A		B			C																			

K.C.M.200(Single Strand Roller Chain)kW

No. of Teeth / Small Spkt.	Revolutions Per Minute - Small Sprocket (r/min)																			
	10	15	20	30	40	50	70	100	150	200	250	300	350	400	450	500	550	600	650	700
9	3.39	4.88	6.32	9.10	11.8	14.4	19.5	26.9	38.7	50.2	61.3	72.3	82.8	88.8	74.6	63.7	55.3	48.5	43.0	0
10	3.79	5.46	7.08	10.2	13.2	16.1	21.9	30.1	43.4	56.2	68.7	81.3	93.3	104	87.3	74.6	64.7	56.8	50.4	0
11	4.21	6.06	7.83	11.3	14.6	17.9	24.2	33.4	48.1	62.3	76.1	89.5	103	116	101	85.8	74.6	65.5	58.1	0
12	4.62	6.65	8.65	12.4	16.1	19.7	26.6	36.7	52.8	68.5	83.6	98.5	113	128	115	98.5	85.0	74.6	0	
13	5.04	7.25	9.40	13.5	17.5	21.4	29.0	40.0	57.6	74.6	91.0	107	124	140	130	110	96.2	84.3	0	
14	5.45	7.83	10.1	14.7	19.0	23.2	31.4	43.3	62.4	80.6	98.5	116	134	151	145	124	107	94.0	0	
15	5.88	8.43	11.0	15.8	20.4	25.0	33.9	46.7	67.2	87.3	107	125	144	163	160	137	119	104	0	
16	6.30	9.10	11.8	16.9	21.9	26.9	36.3	50.1	72.1	93.3	114	134	154	175	177	151	131	115	0	
17	6.73	9.70	12.5	18.1	23.4	28.6	38.8	53.4	76.8	100	122	144	165	186	194	166	143	126	0	
18	7.15	10.3	13.4	19.2	24.9	30.4	42.3	56.8	82.1	106	130	153	175	198	211	181	156	137	0	
19	7.61	10.9	14.2	20.4	26.4	32.3	43.7	60.3	86.5	113	137	162	186	210	229	195	169	148	0	
20	7.98	11.6	15.0	21.6	27.9	34.2	46.2	63.7	91.8	119	145	171	197	222	247	211	183	0		
21	8.43	12.2	15.7	22.8	29.5	36.0	48.7	67.1	97.0	125	153	181	207	233	260	228	197	0		
22	8.88	12.8	16.6	23.9	31.0	37.8	51.3	70.6	101	132	161	189	218	246	273	244	211	0		
23	9.33	13.4	17.4	25.1	32.5	39.7	53.7	74.1	107	138	169	199	229	258	286	260	226	0		
24	9.77	14.1	18.2	26.3	34.0	41.6	56.2	77.6	112	145	177	208	239	270	300	278	241	0		
25	10.2	14.7	19.0	27.5	35.5	43.4	58.8	81.3	116	151	185	218	250	282	314	295	256	0		
26	10.7	15.4	19.8	28.6	37.0	45.3	61.3	84.3	122	158	193	228	261	295	327	313	272	0		
Lubrication Type	A		B			C														

Lubrication Type A: Lubrication - Manual Oil Drip
B: Lubrication - Oil Bath
C: Lubrication - Oil Pump
See Lubrication Instructions on page 25.

See pages 21 to 24 for details on selecting chains or multiple strand roller chains.
For optimum results, consult KCM Chain for drives operating in the SHADED ZONE.