

Motor output selection guidelines

Conveyor length that can be driven with 1 motor Unit: m

Motor output (kW)	Roller pitch (mm)	Speed (m/min)	Transport weight			
			10(kg/m)	15(kg/m)	20(kg/m)	25(kg/m)
0.4	40	15	28	26	24	23
		18	23	22	20	19
		23	17	16	15	14
		28	15	14	13	12
		35	12	11	10	9
		42	10	9	8	8
	80	15	36	32	29	27
		18	30	27	25	23
		23	22	20	18	17
		28	19	17	15	14
		35	15	13	12	11
		42	12	11	10	9
0.2	40	15	14	13	12	11
		18	12	11	10	9
		23	9	8	8	7
		28	7	7	6	6
		35	6	5	5	5
		42	5	5	4	4
	80	15	18	16	15	14
		18	15	14	12	11
		23	11	10	9	8
		28	9	8	8	7
		35	7	7	6	6
		42	6	6	5	5
*90°, 60° curve	40	Roller pitch at left signifies lines overall roller pitch.	4	4	4	4
	80		5	5	5	4
*30°branch Roller diverter	40	9	8	7	7	
	80	11	10	9	8	

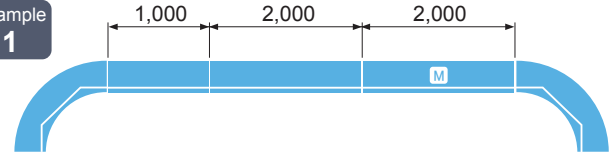
*Equivalent straight length

How to use the motor output selection table

- It is assumed that the roller pitch and transport speed have already been determined based on the layout specifications.
- Transport weight per meter

$$\text{Transport weight per meter} = \frac{\text{Product weight (kg)}}{\text{Product length (m)}}$$
- For lines with curved or branch units, convert to the equivalent linear distance using the conversion chart to the left and take care not to exceed the maximum length range.

Example 1

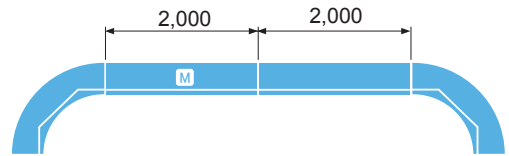


Transport speed **18(m/min)**
 Product weight **15(kg/m)**
 Roller pitch **40P**
 Frequency **60Hz**

Unit	Linear equivalent
Drive unit	2m
Straight unit	2m+1m
90°curve	4m×2
Total	13m

Calculating the maximum drive length based on the conversion chart yields the following results:
 At 0.2kW, 11m
 At 0.4kW, 22m
 For this line, a motor output of 0.4kW is needed.

Example 2



Transport speed **15(m/min)**
 Product weight **10(kg/m)**
 Roller pitch **40P**
 Frequency **50Hz**

Unit	Linear equivalent
Drive unit	2m
Straight unit	2m
90°curve	4m×2
Total	12m

Calculating the maximum drive length based on the conversion chart yields the following results:
 At 0.2kW, 14m
 For this line, a motor output of 0.2kW can be used.