

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			
			20(kg/m)	30(kg/m)	50(kg/m)	70(kg/m)
0.75	100	15	63	50	36	—
		18	52	42	30	—
		20	48	38	27	—
		24	40	32	23	—
		30	29	23	16	—
		36	24	19	14	—
	75	15	50	42	31	25
		18	42	35	26	21
		20	38	32	24	19
		24	32	26	20	16
		30	23	19	14	11
		36	19	16	12	9
0.4	100	15	31	25	18	—
		18	26	21	15	—
		20	24	19	13	—
		24	20	16	11	—
		30	16	12	9	—
		36	13	10	7	—
	75	15	25	21	15	12
		18	21	17	13	10
		20	19	16	12	9
		24	16	13	10	8
		30	12	10	8	6
		36	10	8	6	5
90°curve	100		10	8	6	—
	75		8	7	5	4
60°curve	100		7	6	4	—
	75		6	5	3	3
45°curve	100		7	6	4	—
	75		6	5	3	3
30°branch Roller diverter	100		15	12	8	—
	75		12	10	7	6

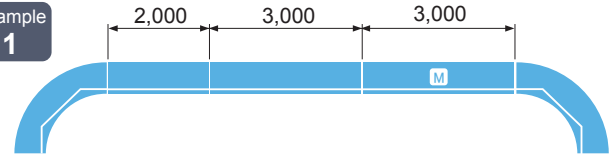
Roller pitch at left signifies line's overall roller pitch.
Equivalent straight length

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

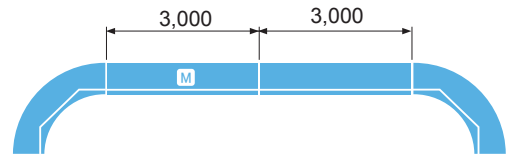


Transport speed **15(m/min)**
 Product weight **30(kg/m)**
 Roller pitch **75P**
 Frequency **50Hz**

Unit	Linear equivalent
Drive unit	3m
Straight unit	2m+3m
90°curve	7m×2
Total	22m

Calculating the maximum drive length based on the conversion chart yields the following results:
 At 0.4kW, 21m
 At 0.75kW, 42m
 For this line, a motor output of 0.75kW is needed.

Example 2



Transport speed **15(m/min)**
 Product weight **30(kg/m)**
 Roller pitch **75P**
 Frequency **50Hz**

Unit	Linear equivalent
Drive unit	3m
Straight unit	3m
90°curve	7m×2
Total	20m

Calculating the maximum drive length based on the conversion chart yields the following results:
 At 0.4kW, 21m
 For this line, a motor output of 0.4kW can be used.