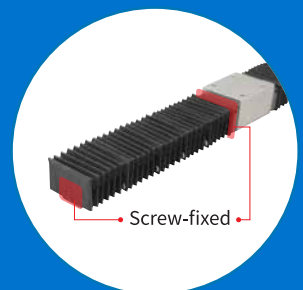


Bellow for Linear Guide



In response to special environmental conditions, protective bellows are installed on the rail to prevent dust, oil, water, and other contaminants from causing any damage, ensuring that the rail and the block remain free from foreign substances and operate smoothly.



Nominal Model Code

BW	TR	25	A	-	Maximum stretching length (L_{max})	/	Minimum compressed length (L_{min})
Nominal Model	Standard Linear Guide	Dimension : 15、20、25、30、 35、45、55、65	A : Nylon Waterproof □ -Shaped		Unit : mm		Unit : mm

Calculations

LR : Length of the rail (mm) $LR = LB + L_{max} + L_{min}$
 LB : Length of the block (mm)
 S : Stroke (mm)
 R : Calculation factor
 L_{min} : Minimum compressed length (mm) $L_{min} = S / (R - 1)$
 L_{max} : Maximum stretching length (mm) $L_{max} = L_{min} * R$

Note. After installing the bellow on the linear guide, there will be non-traversable areas at both ends. Please ensure that the stroke is sufficient for the mechanism.

Examples

Specification : TRH25VE-1-XN-590-N-Z0

LR=590
 LB=110
 S=360
 R=7

$L_{min} = 360 / (7 - 1) = 60$

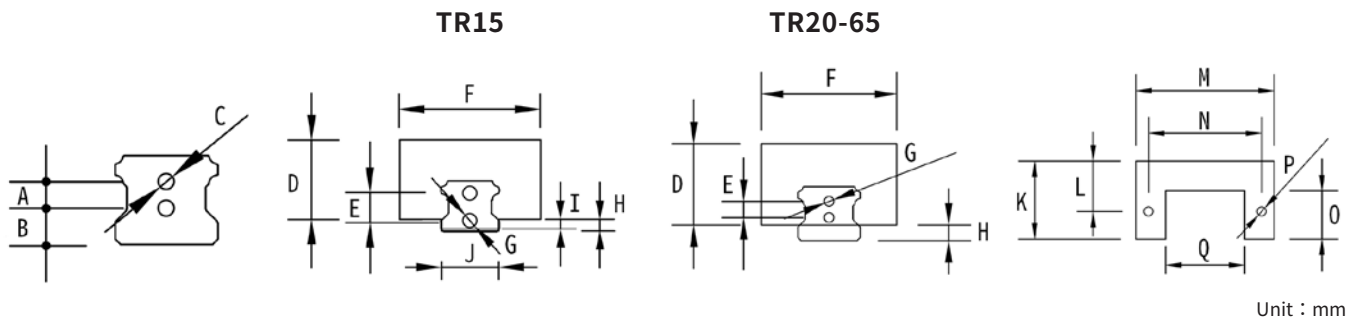
$L_{max} = 60 * 7 = 420$

Check calculation : $LR = 110 + 420 + 60 = 590$

Calculation Factor Table

Type	Dimension	Calculation factor	
		R	
TR	15	5.5	
	20	6	
	25	7	
	30	8	
	35	9	
	45	10	
	55	10	
	65	10	

Bellow for Linear Guide Specification



Type	Dimension	Dimension for the machined rail			Dimension for the fixed side on the rail							Dimension for the fixed side on the block							Calculation Factor
		A	B	C	D	E	F	G	H	I ^{*1}	J ^{*1}	K	L	M	N	O	P	Q	
TR	15	7	2.8	M3*0.5P dp8	19	7	32	Φ3.5	3.2	3	14.6	19	12.82	32	27.61	11.17	Φ2.5	18	5.5
	20	6	7.6	M3*0.5P dp8	21	6	40	Φ3.5	4.6	-	-	21	13.65	40	35	12.8	Φ3	24	6
	25	6	8.5	M3*0.5P dp8	26	6	46	Φ3.5	5.8	-	-	26	19	46	38.02	19	Φ3	28	7
	30	8	11	M3*0.5P dp8	32	8	56	Φ3.5	7	-	-	32	20	56	48.25	18.4	Φ3.5	32	8
	35	7	11.5	M4*0.7P dp14	38	7	67	Φ4.5	7.5	-	-	38	25.5	67	57.29	24.5	Φ3.5	40	9
	45	10	13.9	M4*0.7P dp14	48	10	83	Φ4.5	8.9	-	-	48	32	83	68.42	31.6	Φ4.5	50	10
	55	10	19	M4*0.7P dp14	52	10	97	Φ4.5	13	-	-	52	31	97	80.8	34	Φ4.5	60	10
	65	15	19	M4*0.7P dp14	67	15	120	Φ4.5	14	-	-	67	40	120	98	44	Φ6.5	70	10

Note : *1 This size is only available for TR15.