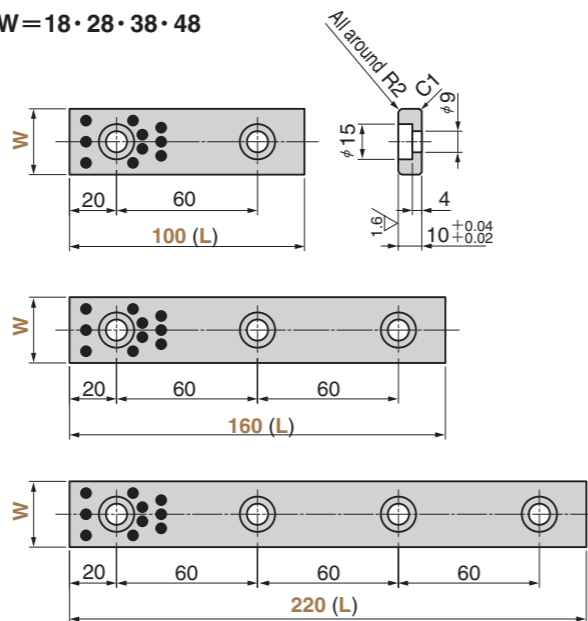


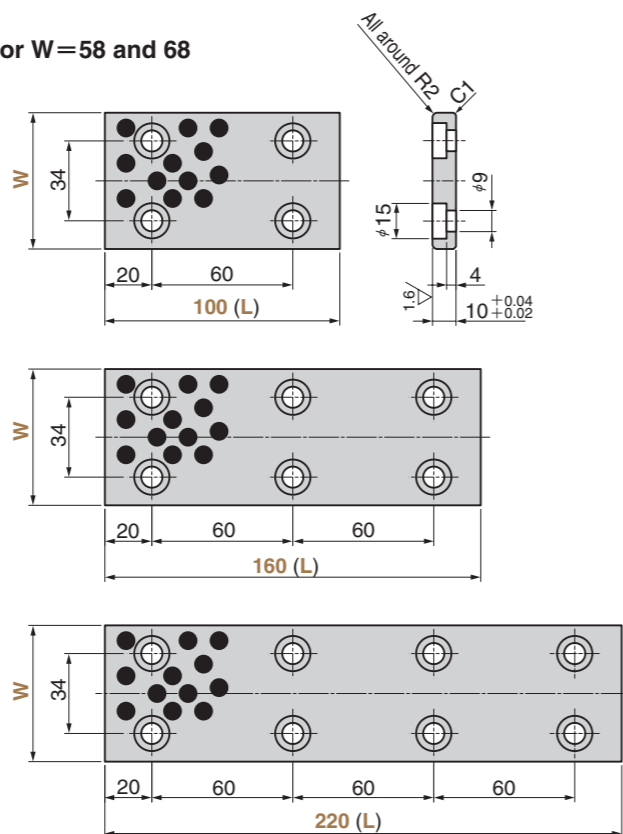
TLP



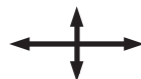
● For W = 18 · 28 · 38 · 48



● For W = 58 and 68



● Sliding Direction



⚠ When the product is used at high temperature (150°C or more), the embedding specification of solid lubricant is different. Please contact us for details.

⚠ Bolt  
Hexagon Socket Brazier Head Bolt M8X15

Material Base Bronze with Graphite(SP7)  
Solid lubricant(GR-1)

■ Operation Range

Lubricant Type	Lubricating Condition	Environment Condition	Max. Allowable Load P N/mm <sup>2</sup>	Max. Allowable Sliding Speed V m/min	Max. Allowable PV value N/mm <sup>2</sup> · m/min	Operation Range Temperature °C
GR-1	No lubrication	Atmosphere	120	10	200	-50 ~ +300
	Regular lubrication(Grease)			20	250	-50 ~ +150

■ Physical Properties

Specific Gravity g/cm <sup>3</sup>	Hardness HB	Elongation %	Tensile Strength N/mm <sup>2</sup>	Linear Expansion Coefficient ×10 <sup>-5</sup> /°C
7.8	260 or more	2 or more	833 or more	1.6

Catalog No.	W	(L)
	18	100
	18	160
	18	220
	28	100
	28	160
	28	220
	38	100
	38	160
	38	220
TLP	48	100
	48	160
	48	220
	58	100
	58	160
	58	220
	68	100
	68	160
	68	220

■ Comparison of Pressure

Catalog No. (Material)	Max. Allowable Load N/mm <sup>2</sup>
TLP (SP7)	120
TWP(SP2) P.93	100
TWX(#220) P.111	50

Order   -   
  -

■ We are ready to accept requests or orders for special parts.