



TWX & TWXT

Guide plates with sintered sliding layer

Stepping forward together with our customers

For more than 50 years, **SANKYO OILLESS** has been one of the leading manufacturers of maintenance-free sliding elements. As a leading supplier and pioneer in the production of stamping and press tool components for the automotive industry, **SANKYO OILLESS** supplies an products for many other applications such as mold making, engineering, packaging, heavy industry, aerospace and many more.

The technologies developed by **SANKYO OILLESS** have reduced or eliminated friction, wear and tear. In addition, **SANKYO OILLESS** provides services and quality products to offer you the best possible solutions for your requirements at all times.

The benefits of slide bearings versus roller bearings

In a variety of applications, designers are increasingly replacing roller bearings with slide bearings. In addition to ease of installation and cost effectiveness, slide bearings offer a number of distinct advantages. Slide bearings require less installation space, have a larger load bearing capacity, are maintenance-free or require little maintenance, are easier to assemble and are less susceptible to noise and vibration.

The following list gives an overview of the general advantages of bearings compared to bearings.

Slide bearing

- Higher load bearing capacity and reduced footprint
- Higher resistance to vibration and increased lifetime
- Easier installation
- Lower installation costs
- Increased shaft tolerances possible
- Compensates misalignment and reduces the edge load

Roller bearing

- sensitive to shock, vibration and edge load
- high costs for bearings, housings, counterfaces and - fixing materials
- large space required
- is prone to noise development

Technologies for top performance

SANKYO products are manufactured in our own plants and distributed worldwide.

We offer high quality maintenance-free sliding elements acc. to international standards and standards for use in

- pressing tools
- injection molds
- general engineering

As an experienced specialist, we have the appropriate know-how in tribology to always offer the best solutions for your needs. We supply a large portfolio of lubrication-free sliding elements and also offer custom products acc. to customer drawing.

Quality and performance are our constant commitment!

Plates, angle strips and the like

According to the case of application and the desired accuracy, between 0.02 and 0.15 mm.

In general, guide slides are made to give a clearance of 0.05 mm and a vertical clearance of 0.1 mm.

Attention

The graphite cannot be deposited on the entire surface with very small movements. Please contact the technical department if you want to realise very small movements.

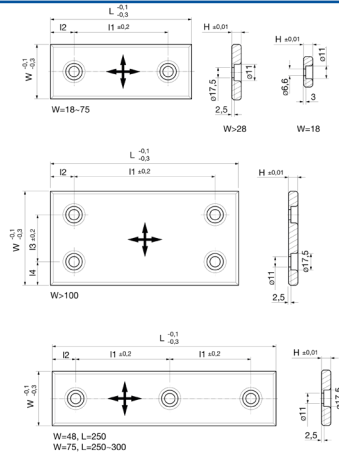
Sliding partners

Suitable sliding partners for Sankyo Oilless Bushes and Plates are **gas nitrated or hardened steel** alloys with **HRC > 35**.

In order to ensure an optimal sliding behaviour, the difference in hardness between the sliding material and sliding partner should at least be **100 HB**.

The surface roughness of the sliding partner should be **Rz = 3...6,3 µm (grinding)**.

If guides, like in large dies of punching tools, are continuously moved apart during operation, the counterpart partner should be provided with correspondingly generous centering chamfers.

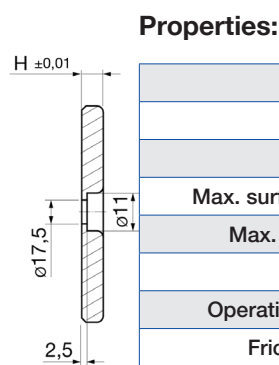
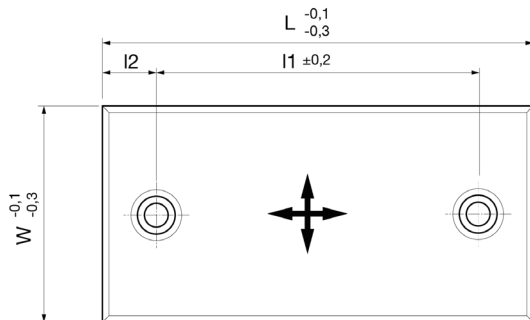


Properties:

Base material	Sinter layer (SO#220)
Self-lubricating	Yes
Basic material	Steel
Max. surface pressure P	40 N/mm ²
Max. sliding speed v	30 m/min
Max. P*v-Wert	100 N/mm ² x m/min
Operating temperature	-40°C / +120°C
Friction coefficient	0,095

Article no.:	Article name:	Width W:	Length L:	Height H:	I1:	I2:	I3:	I4:	M (ISO 7984):	M (ISO 4762):	Qty.:	Form:
2773010045	TWX 18x75	18	75	10	45	15			-	M6	2	A
2773010050	TWX 18x100		100		50	25						
2773010075	TWX 18x125		125		75							
2773010100	TWX 18x150		150		100							
2773010045	TWX 28x75	28	75		45				15	25		
2773010050	TWX 28x100		100		50							
2773010075	TWX 28x125		125		75							
2773010100	TWX 28x150		150		100							
2773010045	TWX 38x75	38	75		45	15	25					
2773010050	TWX 38x100		100		50							
2773010075	TWX 38x125		125		75							
2773010100	TWX 38x150		150		100							
2773010045	TWX 48x75	48	75		45	15	25					
2773010050	TWX 48x100		100		50							
2773010075	TWX 48x125		125		75							
2773010100	TWX 48x150		150		100							
2773010100	TWX 48x200		200		100	50						
2773010100	TWX 48x250		250		100	25						
2773010045	TWX 58x75	58	75		45	15	25					
2773010050	TWX 58x100		100		50	25						
2773010100	TWX 58x150		150		100							
2773010025	TWX 75x75	75	75		25	50						
2773010050	TWX 75x100		100		50							
2773010075	TWX 75x125		125		75							
2773010100	TWX 75x150		150		100							
2773010150	TWX 75x200		200		150							
2773010100	TWX 75x250		250		100							
2773010050	TWX 100x100	100	100		50	50		25				
2773010075	TWX 100x125		125		75							
2773010100	TWX 100x150		150		100							
2773010150	TWX 100x200		200		150							
2773010200	TWX 100x250		250		200							
2773010200	TWX 100x300	125	300		200	50	37,5					
2773010075	TWX 125x125		125		75	25						
2773010100	TWX 125x150		150		100							
2773010150	TWX 125x200		200		150							
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2773010200	TWX 125x300		300	200	50							

Article no.:	Article name:	Width W:	Length L:	Height H:	l1:	l2:	l3:	l4:	M (ISO 7984):	M (ISO 4762):	Qty.:	Form:
2773010100	TWX 150x150	150	150	10	100	25	100	25	M10	-	4	C
2773010150	TWX 150x200		200		150							
2773010200	TWX 150x250		250		200							



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2773010050	TWXT 100x100	100	100	10	50	25	M10	2
2773010075	TWXT 100x125		125		75			
2773010100	TWXT 100x150		150		100			
2773010150	TWXT 100x200		200		150			
2773010200	TWXT 100x250		250		200			
2773010075	TWXT 125x125	125	125		75			
2773010100	TWXT 125x150		150		100			
2773010150	TWXT 125x200		200		150			
2773010200	TWXT 125x250		250		200			
2773010100	TWXT 150x150		150		100			
2773010150	TWXT 150x200		200		150			
2773010200	TWXT 150x250		250		200			

