

OIL-FREE SLIDE PLATES

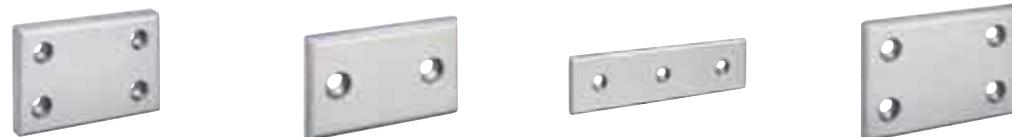
OIL-FREE SLIDE PLATES



Product name	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES
Catalog No.	—CAST 20mm TYPE-2 BOLT HOLES—	—CAST 20mm TYPE-3 BOLT HOLES—	—CAST 20mm TYPE-4 BOLT HOLES—	—COPPER ALLOY 20mm TYPE-2 BOLT HOLES—
Page	1135	1135	1135	1136



Product name	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES
Catalog No.	—COPPER ALLOY 20mm TYPE-4 BOLT HOLES—	—COPPER ALLOY 10mm TYPE-2 BOLT HOLES—	—COPPER ALLOY 10mm TYPE-4 BOLT HOLES—	—SINTERED ALLOY 20mm TYPE-2 BOLT HOLES—
Page	1136	1137	1137	1138



Product name	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES
Catalog No.	—SINTERED ALLOY 20mm TYPE-4 BOLT HOLES—	—SINTERED ALLOY 10mm TYPE-2 BOLT HOLES—	—SINTERED ALLOY 10mm TYPE-3 BOLT HOLES—	—SINTERED ALLOY 10mm TYPE-4 BOLT HOLES—
Page	1138	1139	1139	1139



Product name	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	SLIDE PLATES	SHIMS FOR OIL-FREE SLIDE PLATES
Catalog No.	—STEEL 20mm TYPE-2 BOLT HOLES / 4 BOLT HOLES—	—STEEL 10mm TYPE-2 BOLT HOLES—	—STEEL 20mm TYPE-2 BOLT HOLES / 4 BOLT HOLES—	SMP
Page	1140	1140	1141	1142



Product name	OIL-FREE SLIDE PLATES	OIL-FREE THIN SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES
Catalog No.	—COPPER ALLOY 10mm TYPE—	—COPPER ALLOY 5mm TYPE—	—COPPER ALLOY 10mm COMPACT TYPE—	—COPPER ALLOY 10mm COMPACT TYPE—
Page	1143	1144	1145	1145



Product name	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES	OIL-FREE SLIDE PLATES
Catalog No.	—COPPER ALLOY 10mm HIGH SURFACE PRESSURE TYPE—	—COPPER ALLOY L-SHAPE TYPE—	—COPPER ALLOY BLANK TYPE—	—SINTERED ALLOY BLANK TYPE—
Page	1146	1147	1148	1149

OIL-FREE SLIDE PLATES

— GUIDE —

■ Guide to oil-free slide plates

MISUMI oil-free components are produced by embedding a special solid lubricant at appropriate locations. Sintered alloy is a special alloy with even distribution of solid lubricants and lubrication grease filled in pores. The metal base material supports the load while the embedded solid lubricant provides lubrication, resulting in superior oil-free durability even under harsh conditions.

■ Features

- ① These products are most effective at locations where require a constant supply of lubricant, reciprocating motion or frequent start and stop occurs and oil film is difficult to form.
- ② Because these products are used under oil-free conditions, no lubrication equipment is needed. This shortens the assembly time and results in a cleaner environment by preventing oil pollution and other problems.
- ③ These products have excellent seizure resistance.

<Precautions>

If the grinding surfaces are too rough, the excellent wear resistance will not guaranteed. Applying grease during the initial break-in can guarantee better performance.

■ Physical properties

Material	Catalog No.	Allowable load N/mm ²	Allowable sliding speed m·min.	Limit PV N/mm ² ·m/min.	Specific gravity	Base material hardness (HB)	Tensile strength N/mm ²
FC250+Special solid lubricant	MWF-MWFT	5	10	30	7.1~7.3	<241	250
Copper alloy+Special solid lubricant	SEW-SEWT-STW-STWT-UTW	50	24	108	8.2	>210	600
Special sintered alloy (Baseplate material: SS400)	SEZ-STZ	25	30	98	—	>45	—

■ Material properties and applications

Material	Wear resistance	Seizure resistance	Allowable load	Impact resistance	Life time	Price	Application
FC250+Special solid lubricant	○	△	△	○	○	◎	Applicable to low load conditions. Seizure occurs under high load conditions.
Copper alloy+Special solid lubricant	△	◎	◎	○	△	△	Applicable to high load conditions. For general purpose.
Special sintered alloy (Baseplate material: SS400)	◎	◎	◎	△	◎	○	Applicable to high load conditions, with excellent wear resistance and relatively weak impact resistance.

◎: Excellent ○: General △: Slightly weak

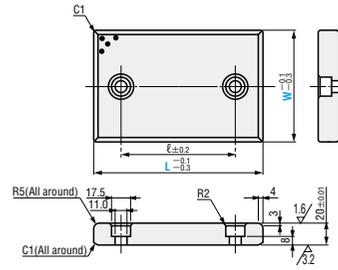
OIL-FREE SLIDE PLATES

— CAST 20mm TYPE · 2 BOLT HOLES / 3 BOLT HOLES / 4 BOLT HOLES —

— 2 bolt holes —
MWF W= 28 ~ 75
MWFT W=100~150



RoHS



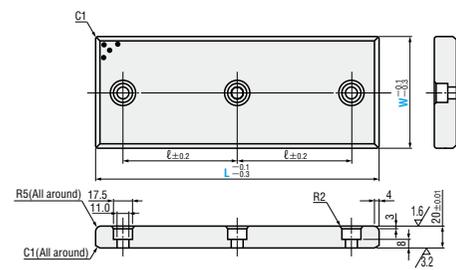
※ For W=28 or 38, the R in the longer direction is R2.

W=75 & L=300

— 3 bolt holes —
MWF W= 75 & L=300



RoHS

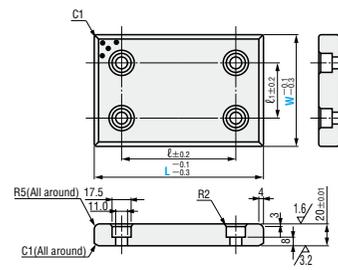


• Slide direction For W=28 or 38, slide direction is the longer direction (L) only.

— 4 bolt holes —
MWF W= 100 ~ 200



RoHS



• The use of initial break-in greasing will make the product more effective.

FC250 Special solid lubricant (embedded)

ℓ	Catalog No.	W	L	
45	— 2 bolt holes — (* 3 bolt holes) MWF	28	75	
50			100	
75			125	
100			150	
150			200	
45		38	28	75
50				100
75				125
100				150
150				200
45		48	28	75
50				100
75				125
100				150
150				200
45	58	28	75	
50			100	
75			125	
100			150	
150			200	
25	75	28	75	
50			100	
75			125	
100			150	
150			200	
200	100	28	75	
200*			100	
250			125	
300			150	
300			200	
50	— 2 bolt holes — MWFT	100	100	
75			125	
100			150	
150			200	
200			250	
200		125	100	100
75				125
100				150
150				200
200				250
200		150	100	100
75				125
100				150
150				200
200				250

ℓ	ℓ ₁	Catalog No.	W	L	
50	50	— 4 bolt holes — MWF	100	100	
75				125	
100				150	
150				200	
200				250	
200	50		100	125	300
75					125
100					150
150					200
200					250
200	100		150	200	300
100					150
150					200
200					250
250					300
150	150	200	250	300	
200				250	
200				300	
250				300	
250				300	

Order

Catalog No.	W	L
MWF	75	100
MWFT	125	200

Days to Ship **Quotation**

Price **Quotation**

■ Shims for oil-free slide plates P.1142

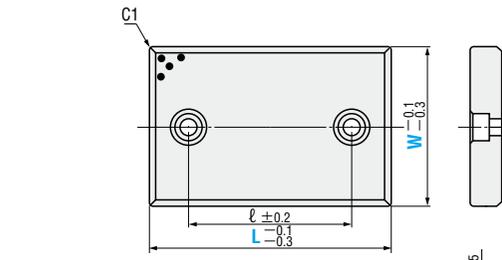
OIL-FREE SLIDE PLATES

— COPPER ALLOY 20mm TYPE · 2 BOLT HOLES / 4 BOLT HOLES —

— 2 bolt holes —
SEW W= 28 ~ 75
SEWT W=100 ~ 150



RoHS

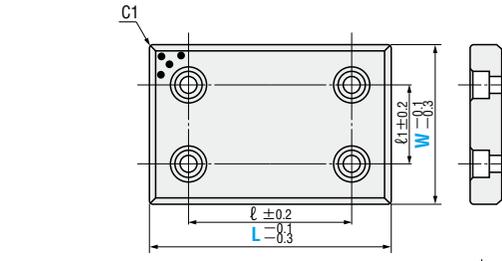


※ For W=28 or 38, the R in the longer direction is R2.

— 4 bolt holes —
SEW W=100 ~ 150



RoHS



• Slide direction For W=28 or 38, slide direction is the longer direction (L) only.

• The use of initial break-in greasing will make the product more effective.

Copper alloy
 Special solid lubricant (embedded)

ℓ	Catalog No.	W	L		
45	— 2 bolt holes — SEW	28	75		
50			100		
100			150		
45			38	28	75
50					100
75		125			
100		150			
150		200			
45		48	28	75	
50				100	
75				125	
100				150	
150				200	
45		58	28	75	
50				100	
100	150				
150	200				
200	250				
25	75	28	75		
50			100		
75			125		
100			150		
150			200		
50	— 2 bolt holes — SEWT	100	100		
75			125		
100			150		
150			200		
200			250		
200		125	100	100	
75				125	
100				150	
150				200	
200				250	
200		150	100	100	
75				125	
100				150	
150				200	
200				250	

ℓ	ℓ ₁	Catalog No.	W	L	
50	50	— 4 bolt holes — SEW	100	100	
75				125	
100				150	
150				200	
200				250	
200	50		125	100	100
75					125
100					150
150					200
200					250
200	100		150	100	100
75					125
100					150
150					200
200					250

Order

Catalog No.	W	L
SEW	75	125
SEWT	150	200

Days to Ship **Quotation**

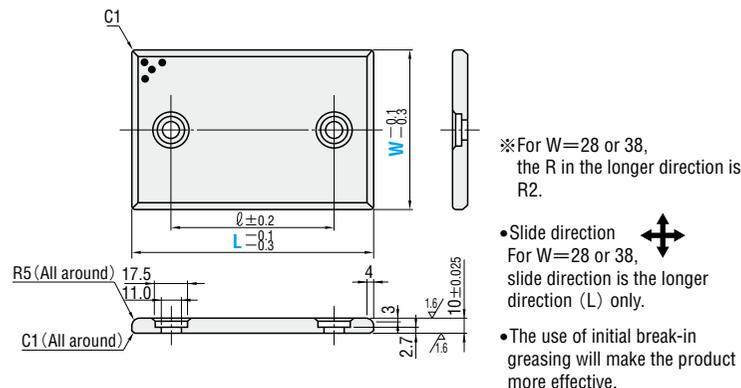
Price **Quotation**

■ Shims for oil-free slide plates P.1142

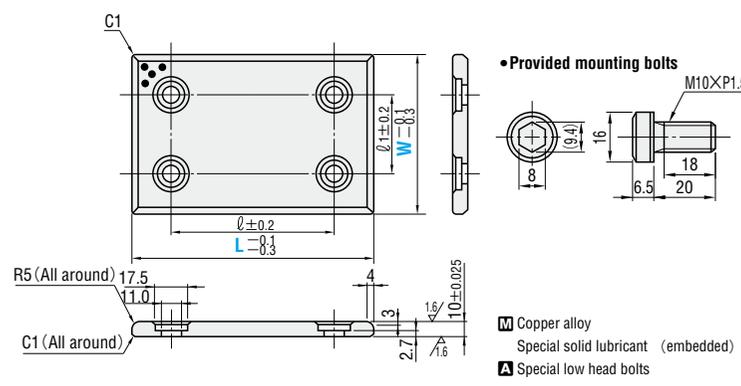
OIL-FREE SLIDE PLATES

— COPPER ALLOY 10mm TYPE · 2 BOLT HOLES / 4 BOLT HOLES —

— 2 bolt holes —
STW W=28~75
STWT W=100~150



— 4 bolt holes —
STW W=100~150



ℓ	Catalog No.	W	L
45	— 2 bolt holes — STW	28	75
50			100
75			125
100			150
45			75
50		100	
75		125	
100		150	
150		200	
100		— 2 bolt holes — STWT	100
150	125		
200	150		
250	200		
300	250		
100	125		150
150			200
200			250
250			300
300			350

ℓ	ℓ ₁	Catalog No.	W	L
50	50	— 4 bolt holes — STW	100	100
75				125
100				150
150				200
200				250
100	50	125	150	200
150				250
200				300
250				350
300				400
100	100	150	200	250
150				300
200				350
250				400
300				450

Order —

STW 75 — 100
STWT 100 — 200

Days to Ship **Quotation**

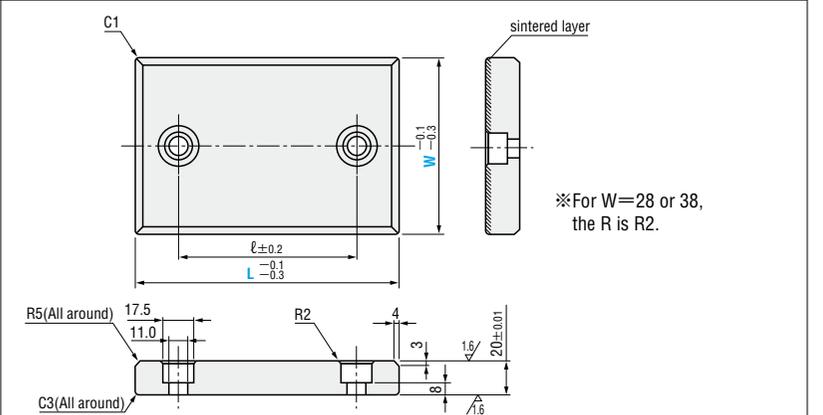
Price **Quotation**

■ Shims for oil-free slide plates P.1142

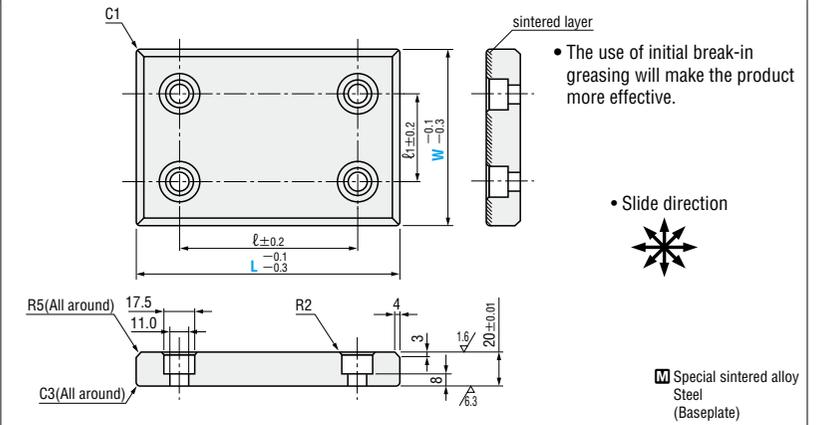
OIL-FREE SLIDE PLATES

— SINTERED ALLOY 20mm TYPE · 2 BOLT HOLES / 4 BOLT HOLES —

— 2 bolt holes —
SEZ W=28~75
SEZT W=100~150



— 4 bolt holes —
SEZ W=100~150



ℓ	Catalog No.	W	L	
45	— 2 bolt holes — SEZ	28	75	
50			100	
100			150	
45			75	
50			100	
75		125		
100		150		
100*		200		
45		58	75	100
50				150
100	200			
25	75			
50	100			
75	125			
100	150			
150	200			
50	100		100	100
75				125
100		150		
150		200		
200		250		
100		125	150	200
150				250
200				300
250				350
300				400
100	150	100	100	
150			125	
200			150	
250			200	
300			250	
100		125	150	200
150				250
200				300
250				350
300				400

ℓ	ℓ ₁	Catalog No.	W	L
50	50	— 4 bolt holes — SEZ	100	100
75				125
100				150
150				200
200				250
100	50	125	150	200
150				250
200				300
250				350
300				400
100	100	150	200	250
150				300
200				350
250				400
300				450

Order —

SEZ 75 — 125

Days to Ship **Quotation**

Price **Quotation**

ℓ with mark "*" is different from that of copper alloy slide plate.

OIL-FREE SLIDE PLATES

—SINTERED ALLOY 10mm TYPE · 2 BOLT HOLES / 3 BOLT HOLES / 4 BOLT HOLES—

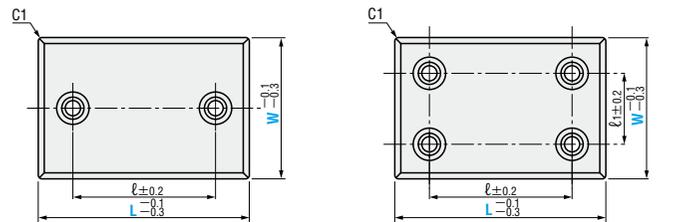
—2 bolt holes—
STZ W=18~75
STZT W=100~150



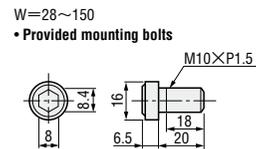
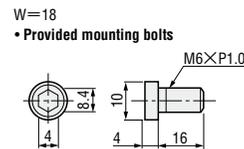
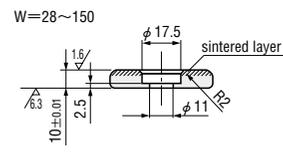
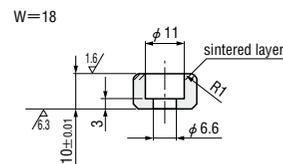
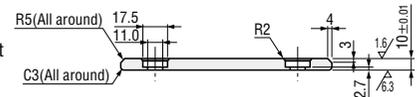
—3 bolt holes—
STZ W=48 & L=250
 W=75 & L=250 or 300



—4 bolt holes—
STZ W=100~150



※For W=28 or 38, R=R2
 • The use of initial break-in greasing will make the product more effective.



• Slide direction



■ Special sintered alloy
 Steel (Baseplate)
 ▲ Special low head screws

ℓ	Catalog No.	W	L	
45	—2 bolt holes— (* 3 bolt holes) STZ	18	75	
50			100	
75			125	
100			150	
100*			250	
45		58	100	75
50				100
100				150
100*				250
100*				300
45	—2 bolt holes— STZT	100	100	
50			125	
100			150	
150			200	
200			250	
75		125	150	125
100				150
150				200
200				250
200				250

ℓ	ℓ ₁	Catalog No.	W	L	
50	50	—4 bolt holes— STZ	100	100	
75				125	
100				150	
150				200	
200				250	
75			75	125	125
100					150
150					200
200					300
200					300
100	100	150	150		
150			200		
200			250		
200			250		
200			250		

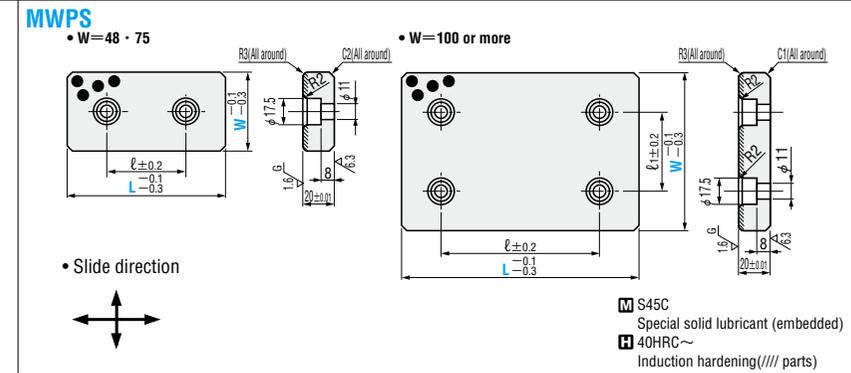
Order **Catalog No.** — **W** — **L**
STZ — 75 — 125

Days to Ship **Quotation**

Price **Quotation**

OIL-FREE SLIDE PLATES

—STEEL 20mm / 10mm TYPE · 2 BOLT HOLES / 4 BOLT HOLES—



• Slide direction



■ S45C
 Special solid lubricant (embedded)
 □ 40HRC~
 Induction hardening(///// parts)

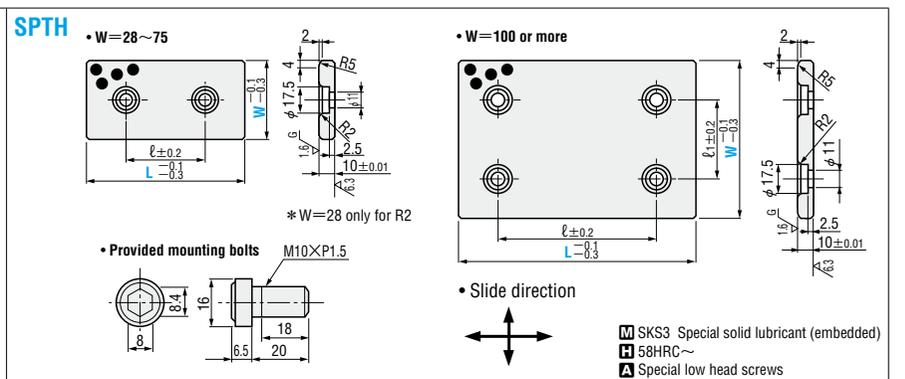
ℓ	ℓ ₁	Catalog No.	W	L	
45	—	MWPS	48	75	
50				100	
75				125	
100				150	
150				200	
25			50	100	75
50					100
75					125
100					150
150					200
200	250				

ℓ	ℓ ₁	Catalog No.	W	L	
75	50	MWPS	125	125	
100				150	
150				200	
200				250	
100				150	200
150			200		
200			250		
200			250		
200			250		

Order **Catalog No.** **W** — **L**
MWPS 75 — 75

Days to Ship **Quotation**

Price **Quotation**



• Slide direction



■ SKS3 Special solid lubricant (embedded)
 □ 58HRC~
 ▲ Special low head screws

ℓ	ℓ ₁	Catalog No.	W	L	
45	—	SPTH	28	75	
50				100	
75				125	
100				150	
100				150	
45			38	100	75
50					100
75					125
100					150
100					150
45	48	100	75		
50			100		
75			125		
100			150		
100			150		
25	75	100	75		
50			100		
75			125		
100			150		
100			150		

ℓ	ℓ ₁	Catalog No.	W	L	
50	50	SPTH	100	100	
75				125	
100				150	
150				200	
75				125	125
100			150		
100			150		
100			150		
100			150		

Order **Catalog No.** **W** — **L**
SPTH 75 — 75

Days to Ship **Quotation**

Price **Quotation**

SLIDE PLATES

—STEEL 20mm TYPE • 2 BOLT HOLES / 4 BOLT HOLES—

SHIMS FOR OIL-FREE SLIDE PLATES

SPNG

• W=28~75

• W=100 or more

R5(All around)
C3(All around)
(Chamfer R at both ends)

S45C
40HRC~
Induction hardening (/// parts)

ℓ	ℓ ₁	Catalog No.	W	L				
45	—	SPNG	28	75				
50				100				
100				150				
45				75				
50			100					
100			150					
150			200					
200			250					
45			50	SPNG	38	75		
50						100		
75						125		
100						150		
150					200			
200					250			
45					100	SPNG	48	75
50								100
75								125
100								150
150			200					
200			250					
45	150	SPNG	58	75				
50				100				
75				125				
100				150				
150			200					
200			250					

ℓ	ℓ ₁	Catalog No.	W	L		
50	50	SPNG	100	100		
75				125		
100				150		
150				200		
200			300			
45			100	SPNG	125	125
50						150
75						200
100						250
150					300	
200	350					
45	150	SPNG	150	150		
50				200		
75				250		
100				300		
150			350			
200			400			

Order

Days to Ship

Price

SMP

RoHS

• W=28~75 (For 2 holes)

• W=100~150 (For both 2 holes and 4 holes)

• W=200 (For 4 holes)

T	T ₁
0.05	±0.01
0.1	±0.02

SUS304

ℓ	ℓ ₁	Catalog No.	W	L	T			
45	—	SMP	28	75	0.05			
50				100				
75				125				
100				150				
150			200					
45			50	SMP		38	75	0.1
50							100	
75							125	
100							150	
150						200		
200						300		
45			100	SMP		48	75	0.1
50							100	
75							125	
100							150	
150						200		
200						300		
45			150	SMP		58	75	0.1
50							100	
75							125	
100	150							
150	200							
200	300							
25	200	SMP	75	75	0.1			
50				100				
75				125				
100				150				
150			200					
200			300					

ℓ	ℓ ₁	Catalog No.	W	L	T			
50	50	SMP	100	100	0.05			
75				125				
100				150				
150				200				
200			300					
75			100	SMP		125	125	0.1
100							150	
150							200	
200							300	
250						350		
300	400							
45	150	SMP	150	150	0.1			
50				200				
75				250				
100				300				
150			400					
200			500					
45	200	SMP	200	200	0.1			
50				250				
75				300				
100				400				
150			500					
200			600					

Order

Days to Ship

Price

- Applicable oil-free slide plates
- MWF · MWFT P.1135
- SEW · SEWT P.1136
- STW · STWT P.1137
- SEZ · SEZT P.1138
- STZ · STZT P.1139

OIL-FREE SLIDE PLATES

OIL-FREE SLIDE PLATES

— COPPER ALLOY 10mm TYPE —

OIL-FREE THIN SLIDE PLATES

— COPPER ALLOY 5mm TYPE —

STLW • W=35 · 50

• Slide direction

• W=75

• Mounting bolts
Short hexagon socket head cap screw M8×15

■ Copper alloy
Special solid lubricant (embedded)

Location of mounting bolt	Qty. of mounting bolt	Catalog No.	W	(L)
ℓ	ℓ ₁			
60	—	STLW	35	100
55	50			150
70	70			200
65	65			250
80	75			300
60	—		50	100
55	50			150
70	70			200
65	65			250
80	75			300
110	—	75	150	
80	—		200	
105	—		250	
85	90		300	
120	120		400	
115	—	500		

Order **STLW** 35 - 200

Days to Ship **Quotation**

Price **Quotation**

UTW RoHS

• Slide direction

• Provided mounting bolts

■ Copper alloy
Special solid lubricant (embedded)

▲ Special flush hexagon socket head cap screws

ℓ	ℓ ₁	d	d ₁	h	Mounting hole	Mounting bolt	Catalog No.	W	L
20	—	6.5	13.5	1.5	2 holes	M6	UTW	18	50
45	—								75
70	—								100
60	—	10	18	0.8	2 holes	M8		28	50
45	—								75
70	—								100
60	—				3 holes	M8		38	50
45	—								75
70	—								100
60	—	10	18	0.8	2 holes	M8		48	50
45	—						75		
70	—						100		
60	—				3 holes	M8	75	50	
45	—							75	
70	—							100	
60	—	10	18	0.8	4 holes	M8	100	50	
45	—							75	
70	—							100	
60	—				6 holes	M8	100	50	
45	—							75	
70	—							100	
60	—	4 holes	M8	100	50				
45	—				75				
70	—				100				
60	—	6 holes	M8	100	50				
45	—				75				
70	—				100				

Order **UTW** 75 - 100

Days to Ship **Quotation**

Price **Quotation**

OIL-FREE SLIDE PLATES

— COPPER ALLOY L-SHAPE TYPE —

OIL-FREE SLIDE PLATES

— COPPER ALLOY BLANK TYPE —

STLST

• Slide direction

☑ Copper alloy
Special solid lubricant (embedded at /// parts)

Specification	Mounting bolt		Location of mounting bolt		Catalog No.	(W)	(L)
	Qty.	ℓ	ℓ ₁				
M8	2	60	—	STLST	26	100	
	3	55	—			150	
	4		50			200	
M10	2	60	—		32	100	
	3	55	—			150	
	4		50			200	
	4	70	70		250		
		5	50		200		
		70	70		250		
	5	65	65		300		
80		75	350				

Order **Catalog No.** **(W)** - **(L)**
STLST 26 - 150

Days to Ship **Quotation**

Price **Quotation**

STBW

• Slide direction

☑ Copper alloy
Special solid lubricant (embedded)

• When using

- Please cut it to the desired length before using.
- Please drill mounting bolt holes before using.
- Please leave the machining allowance of 0.3mm.

Recommended bolt	Catalog No.	W	L	T
M6×10 Small flush head screw	STBW	20	305	5
		25		
		30		
M8×15 Hexagon socket head cap screw		35	400	10
		40		
		50		
M10×20 Hexagon socket head cap screw		60	605	15

Order **Catalog No.** **W** - **L** - **T**
STBW 20 - 305 - 5

Days to Ship **Quotation**

Price **Quotation**

OIL-FREE SLIDE PLATES

—SINTERED ALLOY BLANK TYPE—



SPZB

• Slide direction 



• **When using**

- Please cut it to the desired length with drilling holes before using.
- Please machine the back side when adjusting its thickness.
- Apply grease during the initial break-in before using.

☑ Special sintered alloy
 //// part is a sintered layer
 T=10 S45C (Baseplate)
 T≥20 SS400 (Baseplate)

Catalog No.	W	L	T
SPZB	75	320	10
	100		
	125		
	150		
	75		20
	100		
	125		
	150		
100	320	25	

Order

Days to Ship **Quotation**

Price **Quotation**

■ Recommended bolts

Thickness	Bolt	How to use
5	M6	Flush head bolt
	M8	
10	M8	Low head bolt with R3 treatment at hole part
	M10	
20, 25	M8	
	M10	

