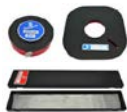




Quick Fitting Joint



Adjustable Hoses



Precision Shim Tape



Precision Shim Stock



Shim Rings



C Shims



Socket Head Cap Bolts

Name	Quick Fitting Joint	Adjustable Hoses	Precision Shim Tape	Precision Shim Stock	Shim Rings	C Shims	Socket Head Cap Bolts
Model	21SP_	136_	17R376_	17ST / 17BR	17WST	17RST	24CB
Page	206	206	207	208	209	209	210



Ball Retainers



Stroke End Blocks (hardened)



Stroke End Blocks Sets



Square Stroke End Blocks

Name	Ball Retainers	Stroke End Blocks (hardened)	Stroke End Blocks Sets	Square Stroke End Blocks
Model	25SB-A / 25SB-J	25SBV / 25SBVH / 25SBVM	25SBS / 25SBN / 25SEC	25SBVK
Page	211	212	213	214



Spool Retainers



Spool Retainer Collars



Urethane Washer



Spool Retainers Thick Type



Spool Retainers Large Flange

Name	Spool Retainers	Spool Retainer Collars	Urethane Washer	Spool Retainers Thick Type	Spool Retainers Large Flange
Model	25SCSR	25SCSRE	25SCSRUR	25SSRH / 25SRT	25SSRTA / 25SSRTB
Page	214	215	215	216	216



Spool Retainers Counterbore



Blank Holder Stopper Bolt



Round Distant Plate



Round Distant Shim



Square Distant Plate

Name	Spool Retainers Counterbore	Blank Holder Stopper Bolt	Round Distant Plate	Round Distant Shim	Square Distant Plate
Model	25SSRZ	25SCBH	25STPM / 25STPY / 25STPME / 25STPYE	25STPMS	25STPK / 25STPB
Page	217	217	218	218	219



Square Distant Shim



Locating Keys



Backup Keys



Washer Die Fastening



Cushion Pins

Name	Square Distant Shim	Locating Keys	Backup Keys	Washer Die Fastening	Cushion Pins
Model	25STPKS	25SLK	25SUKE	25KWN / 25WSS	25CPR / 25CPM / 25CPH / 25CPL
Page	219	220	220	220	221 - 222



Lifter Cushion Pins



Lifter Cushion Pins Bushing



Plate Lifter Pins



Lifter Plate Stopper

Name	Lifter Cushion Pins	Lifter Cushion Pins Bushing	Plate Lifter Pins	Lifter Plate Stopper
Model	25TCPA / 25TCPB	25STGF / 25STGW	25PLP	25LPE
Page	223	223	224	224

Quick Fitting Joints - ข้อต่อสวมเร็ว

FOIL FREE™

ORDER
EXAMPLE

Model D - Nominal
21SPC8-02PT

Model: 21SPC
เกลียวตัวผู้
Male Thread



Model	Matching Tube O.D.	Thread Size	
		D	R(PT)
21SPC	4	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
	6	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
	8	04PT	1/2PT
		01PT	1/8PT
		02PT	1/4PT
	10	03PT	3/8PT
		04PT	1/2PT
		01PT	1/8PT
21SPCF	8	02PT	1/4PT
		03PT	3/8PT
		04PT	1/2PT
	10	02PT	1/4PT
		03PT	3/8PT
		04PT	1/2PT
21SPLL	12	02PT	1/4PT
		03PT	3/8PT
		04PT	1/2PT
	16	03PT	3/8PT
		04PT	1/2PT
		06PT	3/4PT

Model: 21SPCF
เกลียวตัวเมีย
Female Thread



Model	Matching Tube O.D.	ThreadSize	
		D	R(PT)
21SPCF	4	01PT	1/8PT
		02PT	1/4PT
		01PT	1/8PT
	6	02PT	1/4PT
		03PT	3/8PT
		01PT	1/8PT
	8	02PT	1/4PT
		03PT	3/8PT
		04PT	1/2PT
	10	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
21SPLL	12	04PT	1/2PT
		02PT	1/4PT
		03PT	3/8PT
	16	04PT	1/2PT
		02PT	1/4PT
		03PT	3/8PT

Model: 21SPLL
เกลียวตัวผู้
Male Thread



Model	Matching Tube O.D.	Thread Size	
		D	R(PT)
21SPLL	4	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
	6	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
	8	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
	10	04PT	1/2PT
		01PT	1/8PT
		02PT	1/4PT
21SPLFL	12	03PT	3/8PT
		04PT	1/2PT
		02PT	1/4PT
	16	03PT	3/8PT
		04PT	1/2PT
		06PT	3/4PT

Model: 21SPLFL
เกลียวตัวเมีย
Female Thread

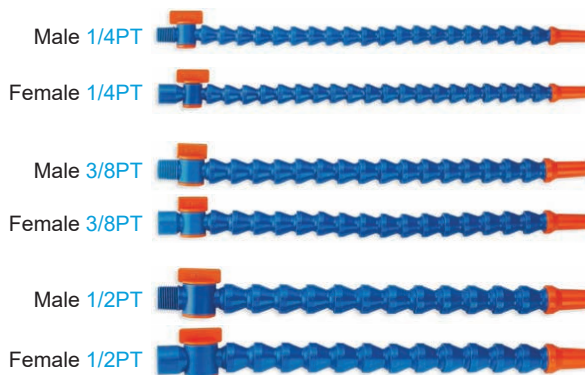


Code	Matching Tube O.D.	ThreadSize	
		D	R(PT)
21SPLFL	4	01PT	1/8PT
		02PT	1/4PT
		01PT	1/8PT
	6	02PT	1/4PT
		03PT	3/8PT
		01PT	1/8PT
	8	02PT	1/4PT
		03PT	3/8PT
		04PT	1/2PT
	10	01PT	1/8PT
		02PT	1/4PT
		03PT	3/8PT
21SPLFL	12	04PT	1/2PT
		02PT	1/4PT
		03PT	3/8PT
	16	04PT	1/2PT
		02PT	1/4PT
		03PT	3/8PT

Adjustable Coolant & Air Hose - ท่อฉีดน้ำหล่อเย็นและลม

JETON®

❗ ท่อฉีดสามารถถอดเปลี่ยนแปลงได้ ด้วยชุดประกอบของท่อฉีดน้ำหล่อเย็น
The hose can be customized with adjustable coolant hose packs



Order Code	Hose System	Hose Length	Thread		Nozzle Head
1362720	1/4	33CM	male	1/4PT	1/4"
1362721	1/4	33CM	female	1/4PT	1/4"
1363720	3/8	36CM	male	3/8PT	3/8"
1363721	3/8	36CM	female	3/8PT	3/8"
1364720	1/2	33CM	male	1/2PT	1/2"
1364721	1/2	33CM	female	1/2PT	1/2"

ชิ้นส่วนทั่วไป

Precision Shim Tapes - แผ่นชิมแบบกล่อง

Model: 17R376



Shim Tape

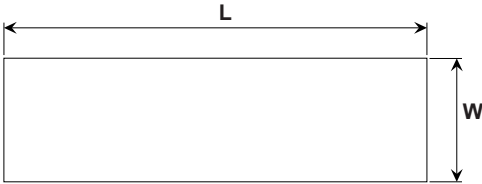


Shim Box

i Hasberg Shim Tape & Box **M** ตัวอักษรดำ | Black Text : Carbon Steel (Shim Grade)
ตัวอักษรฟ้า | Blue Text : Stainless Steel (Shim Grade)

Thickness (mm)	Order Code						Tolerance
	Precision Shim Tape					Shim Box (10pc/box)	
	12.7mm x 2m	12.7mm x 5m	25mm x 5m	50mm x 5m	100mm x 5m	50mm x 300mm	
0.005	17R376-G5B						±0.001
0.01	17R376-01B					17R376-01K	±0.002
0.02	17R376-02B			17R376-02G		17R376-02K	
0.03	17R376-03B		17R376-03F	17R376-03G		17R376-03K	
0.04	17R376-04B					17R376-04K	±0.003
0.05	17R376-05B		17R376-05F	17R376-05G	17R376-05H	17R376-05K	
0.06	17R376-06B					17R376-06K	
0.07	17R376-07B					17R376-07K	±0.004
0.08	17R376-08B					17R376-08K	
0.09	17R376-09B					17R376-09K	
0.10	17R376-10B	17R376-10C	17R376-10F	17R376-10G	17R376-10H	17R376-10K	
0.12	17R376-12B						±0.005
0.15	17R376-15B						
0.18	17R376-18B						
0.20	17R376-20B		17R376-20F	17R376-20G	17R376-20H	17R376-20K	±0.006
0.25	17R376-25B						±0.007
0.30	17R376-30B		17R376-30F	17R376-30G	17R376-30H	17R376-30K	
0.35	17R376-35B						±0.008
0.40	17R376-40B			17R376-40G	17R376-40H	17R376-40K	±0.009
0.45	17R376-45B						
0.50	17R376-50B	17R376-50C	17R376-50F	17R376-50G	17R376-50H	17R376-50K	±0.01
0.60	17R376-60B					17R376-60K	
0.70	17R376-70B					17R376-70K	±0.012
0.80	17R376-80B					17R376-80K	
0.90	17R376-90B					17R376-90K	±0.013
1.00	17R376-A0B				17R376-A0H	17R376-A0K	

Precision Shim Stock - แผ่นซิมแบบแผ่น



ORDER
EXAMPLE

Model Thickness x W x L
17ST0.05x300x2M

Model: 17ST  สแตนเลสสตีล เกรดแผ่นซิม
Stainless Steel (Shim Grade)

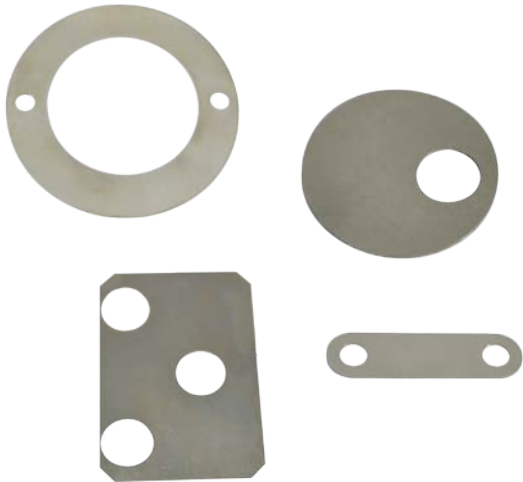
Thickness (mm)	W (mm)	L (M)	
0.01	100	1M	2M
0.02	150	1M	
	300	1M	2M
0.03	150	1M	
	300	1M	2M
0.04	150	1M	
	300	1M	2M
0.05	150 , 300	1M	2M
0.06	300	1M	2M
0.07	300	1M	2M
0.08	300	1M	2M
0.09	300	1M	2M
0.10	150 , 300	1M	2M
0.20	150 , 300	1M	2M
0.25	280	1M	2M
0.30	150 , 300	1M	2M
0.40	150 , 300	1M	2M
0.50	150 , 300	1M	2M
0.60	150	1M	
0.80	150	1M	
	300	1M	2M
1.00	150 , 300	1M	2M
1.20	150	1M	
1.50	150	1M	
2.00	150 , 300	1M	2M
3.00	150	1M	
4.00	150	1M	
5.00	150	1M	

Model: 17BR  ทองเหลือง เกรดแผ่นซิม
Brass (Shim Grade)

Thickness (mm)	W (mm)	L (M)	
0.05	150 , 300	1M	2M
0.10	150 , 300	1M	2M
0.20	150 , 300	1M	2M
0.30	150 , 300	1M	2M
0.40	150 , 300	1M	2M
0.50	150 , 300	1M	2M
0.80	150	1.2M	
1.00	150	1M	

Customizable!

แผ่นซิมสามารถตัดตามแบบได้ เพียงส่งแบบมาให้เรา
Shims can be cut to your drawing

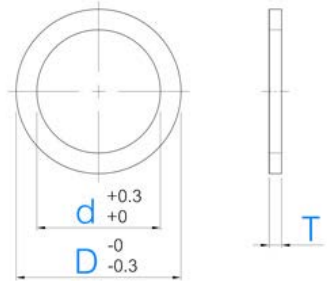


ชิ้นส่วนทั่วไป

Shim Rings - แผ่นชิมแหวน



Model: 17WST



ORDER
EXAMPLE

Model d x D x T
17WST10x15x0.10



สแตนเลสสตีล เกรดแผ่นชิม
Stainless Steel (Shim Grade)



ขนาดบรรจุ 10ชิ้น/แพ็ก
Sold in pack of 10 pieces

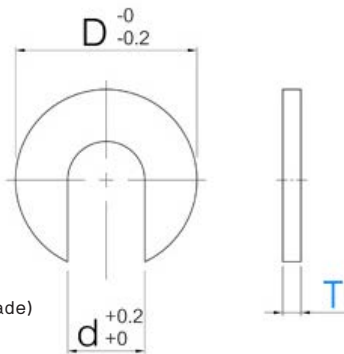
Model	d	D																				T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
17WST	2	4	5	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Accessories

C Shims - แผ่นชิมรูปตัวซี



Model: 17RST



สแตนเลสสตีล เกรดแผ่นชิม
Stainless Steel (Shim Grade)



ขนาดบรรจุ 10ชิ้น/แพ็ก
Sold in pack of 10 pieces

ORDER
EXAMPLE

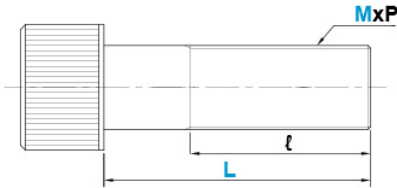
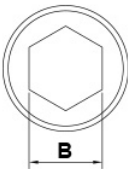
Model No x D
17RST10x0.10

Order Code	No.	T	d	D
17RST	6	0.05 0.10 0.20 0.30 0.40 0.50 1.00 2.00	6.5	12
	8		8.5	15
	10		10.5	20
	12		13	25
	16		17	30
	20		21	35
	24		25	40
	30		31	50

Socket Head Cap Bolts - สกรูหัวจมทกเหลี่ยมรรมดำ



Model: 24CB



ORDER
EXAMPLE

Model M x L
24CB10x150



12.9 Grade, SCM435
38 ~ 43HRC, Blacken Treatment



Standard:
DIN 912 / ISO 4762
ANSI 18.3.1M / JIS B 1176

M	L																	MxP	B	Max I	
1.6	4	6	8	10	12													M1.6x0.35	1.5	12	
2	4	6	8	10	12	16	20	25										M2.0x0.40	1.5	16	
2.5	4	6	8	10	12	16	20	25										M2.5x0.45	2	17	
3	4	6	8	10	12	16	20	25	30	35	40	45	50					M3.0x0.50	2.5	18	
4	4	6	8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	M4.0x0.70	3	20
	80	90	100	110																	
5	4	6	8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	M5.0x0.80	4	22
	80	90	100	110	120	130	140	150													
6	4	6	8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	M6.0x1.00	5	24
	80	90	100	110	120	130	140	150													
8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	M8.0x1.25	6	28
	110	120	130	140	150	160	180	200	230	250	280	300									
10	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	M10x1.50	8	32
	130	140	150	160	170	180	190	200	230	250	280	300									
12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	M12x1.75	10	36
	130	140	150	160	170	180	190	200	210	220	230	240	250	280	300						
14	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	M14x2.00	12	40
	150	160	170	180	190	200	230	250													
16	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	M16x2.00	14	44
	150	160	170	180	190	200	210	220	230	240	250	280	300	320	340	360	380	400			
18	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	M18x2.50	14	48
	180	190	200	230	250	280	300	320	340	360	380	400									
20	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	M20x2.50	17	52
	180	190	200	210	220	230	240	250	280	300	320	340	360	380	400						
22	50	55	60	65	70	75	80	90	100	110	120	130	140	150	180	200	180	230	M22x2.50	17	56
	250	280	300	320	340	360	380	400	320	340	360	380	400								
24	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	M24x3.00	19	60
	200	210	220	230	240	250	280	300	320	340	360	380	400								
27	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	M27x3.00	19	66
	200	210	220	230	240	250	280	300	320	340	360	380	400								
30	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	230	250	M30x3.50	22	72
	280	300	320	340	360	380	400														
33	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	M33x3.50	22	84
	280	300	320	340	360	380	400														
36	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	M36x4.00	27	96
	280	300	320	340	360	380	400														

ชิ้นส่วนทั่วไป

Ball Retainers - ปลอกลูกปืน

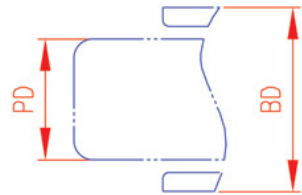
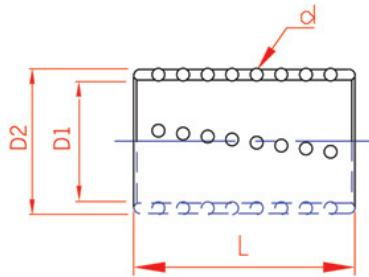
FOIL FREE™



Model:
25SB-A
(Aluminum)



Model:
25SB-J
(Resin, POM)



ORDER
EXAMPLE

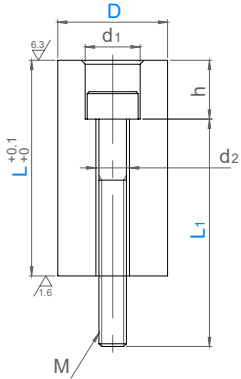
Model PD - L
25SB-A25-50

25SB-A : Aluminum Body
25SB-J : Resin (POM) Body
Ball : SUJ2 (62-67HRC)
Ball Sphericity : 0.25µm

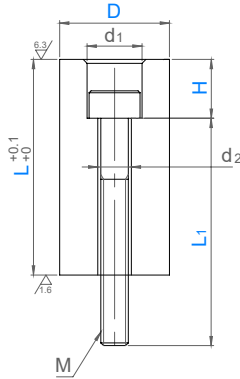
Model	PD (Post Diameter)	L	D1	D2	d	Number of Balls
25SB-A (Aluminum) 25SB-J (Resin)	19	60	19.4	24.4	3	120
	20	50	20.4	25.4		96
		60				120
	22	50	22.4	27.4		112
		60				140
	25	50	25.4	30.4		128
		60				160
		75				208
	28	75	28.4	35.4	4	154
	30	60	30.4	37.4		112
		75				154
		90				208
	32	60	32.4	39.4		176
		90				208
	36	80	36.4	43.4		176
		90				208
	38	70	38.4	47.4	5	128
		90				176
	40	90	40.4	49.4		176
	45	90	45.4	54.4		198
		110				234
	50	90	50.4	59.4		220
		110				260
	60	90	60.4	69.4		242
		100				264
		110				286

Stroke End Blocks (Harden) - สโตรคเอ็นบล็อก (ชุบแข็ง)

FOIL FREE™



Model: 25SBV



Model: 25SBVH
ปรับค่า H ได้
H configurable

ORDER
EXAMPLE

Model D - L - H - Color - L1
25SBVH38-80.5-40-Y-60

- ① SUJ2
54-58HRC
② Socket Head Cap Bolt

Model	D	L 0.1mm increment	Color	L1 5mm increment	h	MxP	d1	d2
25SBV	10	10.0 - 40.0	R (Red)	10 - 40	5	M3 x 0.5	6	4
	12			10 - 50	8	M4 x 0.7	8	5
	14				10	M5 x 0.8	9.5	6
	16			15 - 70	13	M6 x 1.0	11	7
	18	20.0 - 70.0	Y (Yellow)	15 - 85	15	M8 x 1.25	14	9
	20			15 - 100	18	M10 x 1.5	17	11
	25			15 - 120	21	M12 x 1.75	20	13
	32	22.0 - 100.0	N (Normal)	20 - 120				
	38							
	50							
	60	30.0 - 150.0		25 - 150				

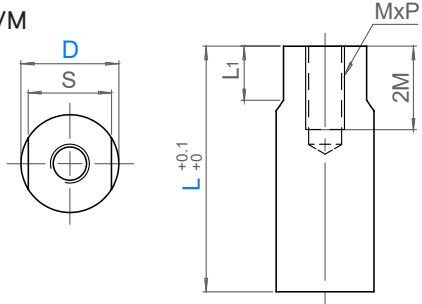
Model	D	L 0.1mm increment	H 1mm increment	Color	L1 5mm increment	MxP	d1	d2
25SBVH	20	15.0 - 100.0	10 - 40	R (Red)	15 - 85	M6 x 1.0	11	7
	25	15.0 - 120.0		Y (Yellow)	15 - 120	M8 x 1.25	14	9
	32				20 - 120	M10 x 1.5	17	11
	38	25.0 - 120.0	15 - 40	N (Normal)	20 - 120	M10 x 1.5	17	11
	50							

Stroke End Blocks (Harden & Tapped) - สโตรคเอ็นบล็อก (ชุบแข็ง และมีรูเกลียว)

FOIL FREE™



Model: 25SBVM



ORDER
EXAMPLE

Model D - L - Color
25SBVM20-50.1-Y

- SUJ2
54-58HRC

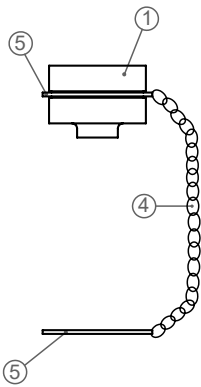
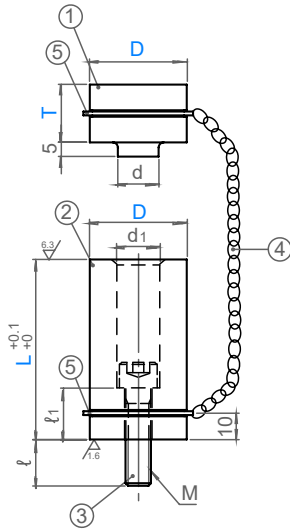
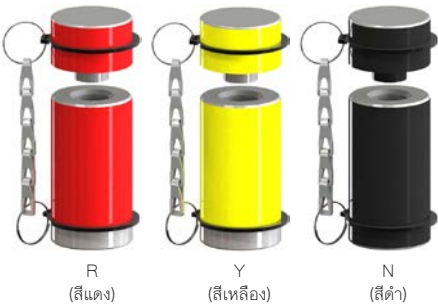
Model	D	L 0.1mm increment	Color	L1	MxP	S
25SBVM	20	20.0 - 80.0	R (Red)	12	M6 x 1.0	17
	25	22.0 - 90.0	Y (Yellow)		M8 x 1.25	22
	32	22.0 - 100.0		16		M10 x 1.5
	38	25.0 - 100.0	N (Normal)		32	

ชิ้นส่วนทั่วไป

Stroke End Block Sets - ชุดสโตรคเอ็นบล็อก

FOIL FREE™

Model: 25SBS



Model	①	②	③	④	⑤
25SBS	✓	✓	✓	✓	✓
25SBN		✓	✓		
25SEC	✓			✓	✓

Model	D - L - Color (2) - T - Color (1)
25SBS20-90.5-R-25-Y	

- ① ② M SS400
③ Socket Head Cap Bolt
④ Chain
⑤ Washer JIS B 2804

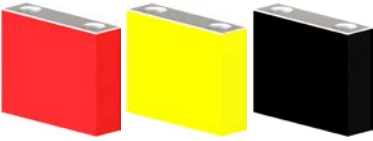


Model	D	L 0.1mm increment	Color (2)	T 5mm increment	Color (1)	MxP	d	d1	ℓ	ℓ1	
25SBS 25SBN 25SEC	14	22.0 - 80.0	R (Red) Y (Yellow) N (Normal)	10 - 50	R (Red) Y (Yellow) N (Normal)	M4 x 0.7	7	8	10	10	
		80.1 - 100.0							35	35	
	16	22.0 - 80.0				M4 x 0.7	7	8	10	10	
		80.1 - 100.0							35	35	
	18	22.0 - 80.0				M5 x 0.8	8.5	9.5	10	10	
		80.1 - 100.0							35	35	
	20	22.0 - 80.0				M6 x 1.0	10	11	9	9	
		80.1 - 100.0							34	34	
		100.1 - 120.0							54	54	
	25	22.0 - 80.0				M8 x 1.25	13	14	12	8	
		80.1 - 100.0							31	31	
		100.1 - 120.0							51	51	
		120.1 - 170.0							76	76	
	32	22.0 - 80.0				M8 x 1.25	13	14	12	8	
		80.1 - 100.0							31	31	
		100.1 - 120.0							51	51	
		120.1 - 170.0							76	76	
	38	25.0 - 80.0				M10 x 1.5	16	17	16	9	
		80.1 - 100.0							33	33	
		100.1 - 120.0							53	53	
		120.1 - 200.0							83	83	
	50	25.0 - 80.0		10 - 100		M12 x 1.75	18	20	18	7	
		80.1 - 100.0							30	30	
		100.1 - 120.0							50	50	
		120.1 - 200.0							80	80	
	60	25.0 - 80.0				M12 x 1.75	18	20	18	7	
		80.1 - 100.0							30	30	
		100.1 - 120.0							50	50	
		120.1 - 200.0							80	80	

Square Stroke End Blocks - สโตรคเอ็นบล็อกสี่เหลี่ยม

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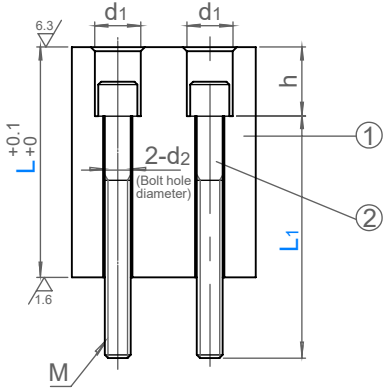
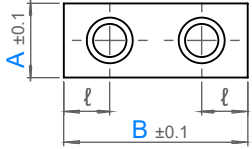
Model: 25SBVK



R
(สีแดง)

Y
(สีเหลือง)

N
(สีดำ)



ORDER
EXAMPLE

Model A - B - L - Color - L1
25SBVK16-38-50.5-Y-55

① SKS93
54-58HRC
Socket Head Cap Bolt

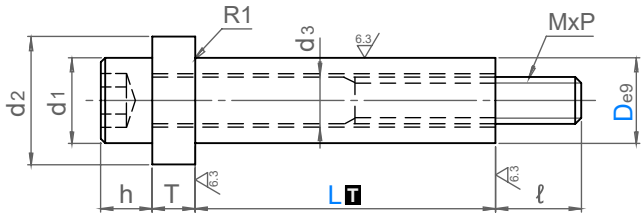
Model	A	B	Body		Bolt L1 5mm increment	MxP	ℓ	D1	D2	h
			L 0.1mm increment	Color						
25SBVK	13	32	20.0 - 50.0	R (red)	15 - 50	M4x0.7	8	8	5	13
		50					12			
	16	38	20.0 - 80.0	Y (yellow)	15 - 80	M5x0.8	10	9.5	6	13
		65					14			
	19	50	20.0 - 100.0	N (black)	15 - 100	M6x1.0	12	11	7	13
		75					16			

Spool Retainers - สปูลรีเทนเนอร์

Oil Free™



Model: 25SCSR



① Socket Head Cap Bolt

ORDER
EXAMPLE

Model D - L
25SCSR20-80

② Retainer:
S45C 38-43HRC
Blacken

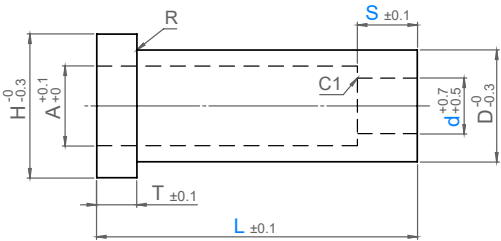
Model	D e9		L		d1	d2	d3	MxP	h	T	ℓ
			5mm increment	10mm increment							
25SCSR	10	-0.025 -0.061	10 - 85	90 - 100	10	15	6.3	M6x1.0	6	5	10
	13	-0.032 -0.075	15 - 85	90 - 120	13	18	8.4	M8x1.25	8	5	15
	16		20 - 85	90 - 180	16	24	10.6	M10x1.5	10	8	22
	20	-0.040 -0.092	30 - 85	90 - 180	18	28	12.6	M12x1.75	12	10	20
	25		40 - 85	90 - 200	24	36	16.8	M16x2.0	16	13	27
	32	-0.050 -0.112	-	60 - 200	30	45	20.8	M20x2.5	20	16	34

ชิ้นส่วนทั่วไป

Spool Retainer Collars - เสือสปูลรีเทนเนอร์



Model: 25SCSRE



ORDER Model d - L - S
EXAMPLE 25SCSRE20-80-20 SS400 Blackening

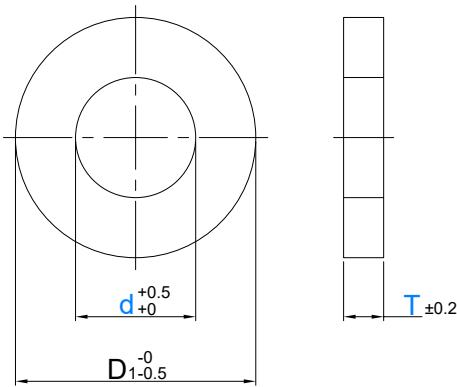
Model	d	L 10mm increment	S 5mm increment	H	T	A	D	R	Use with 25SCSR D
25SCSRE	10	50 - 100	10 - 25	36	5	16	28	1	10
	13			40	5	19	30		13
	16			46	8	25	36		16
	20			55	10	29	44		20
	25	60 - 100	10 - 25	60	13	37	50	1	25
	32			70	16	46	60	1.5	32

Accessories

Spool Retainer Urethane Washer - ยูรีเทนวอชเชอร์สำหรับสปูลรีเทนเนอร์



Model: 25SCSRUR



ORDER Model d - T
EXAMPLE 25SCSRUR20-10 Urethane (Shore A90)

Model	d	T			D1	Use with 25SCSR D
25SCSRUR	16	5	10	-	24	16
	20				28	20
	25				36	25
	32	-	10	15	45	32

Spool Retainers Thick Type - สปูลรีเทนเนอร์ แบบหนา

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Model: 25SSRH

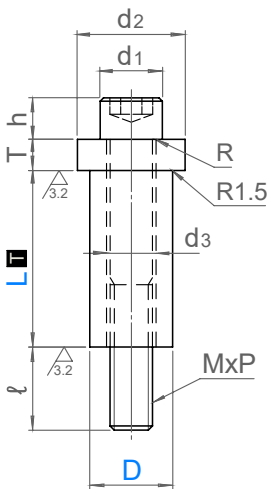
Model: 25SSRT

สกรูทากากันคล้าย
Adhesive on bolt (Tech Bolt)



- ① **M** Socket Head Cap Bolt
SCM435
Hardness 12.9 (M10-20)
10.9 (M24)

- ② **M** S45C
25-30HRC
Blackening



ORDER
EXAMPLE

Model D - L
25SSRH22-70

Model	D e9		L 10mm increment	d1	d2	d3	MxP	R	h	T	ℓ
25SSRH 25SSRT	18	-0.032 -0.075	60 - 150	16	27	10.7	M10x1.5	1	10	8	22
	22	-0.040 -0.092	60 - 150	18	33	12.7	M12x1.75	1	12	10	20
	30		60 - 180	24	44	16.7	M16x2.0	1.5	16	13	27
	36	-0.050 -0.112	80 - 180	30	53	20.7	M20x2.5	1.5	20	16	34
	44		80 - 180	36	64	24.7	M24x3.0	1.5	24	18	42

Spool Retainers Large Flange - สปูลรีเทนเนอร์ บ้าขนาดใหญ่

FOIL FREE™



Model: 25SSRTA

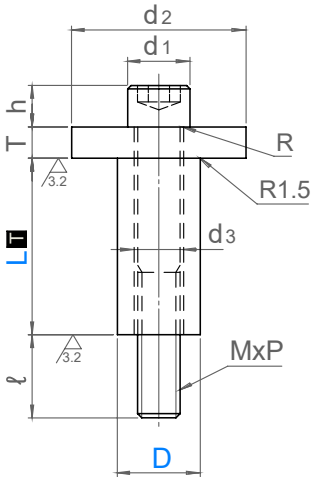
Model: 25SSRTB

สกรูทากากันคล้าย
Adhesive on bolt (Tech Bolt)



- ① **M** Socket Head Cap Bolt
SCM435
Hardness 12.9 (M10-20)
10.9 (M24)

- ② **M** S45C
25-30HRC
Blackening



ORDER
EXAMPLE

Model D - L
25SSRTA30-90

Model	D e9		L 10mm increment	d1	d2	d3	MxP	R	h	T	ℓ
25SSRTA 25SSRTB	22	-0.040 -0.092	80 - 130	18	50	12.7	M12x1.75	1	12	10	20
	30		80 - 130	24	60	16.7	M16x2.0	1.5	16	13	27
	36	-0.050 -0.112	100 - 150	30	70	20.7	M20x2.5	1.5	20	16	34
	44		100 - 150	36	80	24.7	M24x3.0	1.5	24	18	42

ชิ้นส่วนทั่วไป

Spool Retainers (Counterbore) - สปูลรีเทนเนอร์

FOIL FREE™



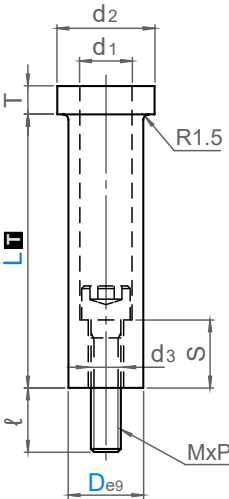
Model: 25SSRZ



①  Socket Head Cap Bolt

SCM435
Hardness 12.9 (M10-20)
10.9 (M24)

②  S45C
25-30HRC
Blackening



ORDER
EXAMPLE Model D - L
25SSRZ28-70

Model	D e9		L 10mm increment	d1	d2	d3	MxP	Bolt Length	T	S	l
25SSRZ	20	-0.040 -0.092	40 - 90	15	26	9	M8x1.25	35	6	20	15
	24		50 - 100	18	33	11	M10x1.5	45	6	25	20
	28		50 - 110	20	37	13	M12x1.75	50	8	30	20
	35	-0.050 -0.112	60 - 130	26	47	17	M16x2.0	60	8	35	25
	44		70 - 130	32	57	21	M20x2.5	70	8	40	30

Blank Holder Stopper Bolts - แบลงค์โฮลเดอร์สต็อปเปอร์โบลท์

FOIL FREE™

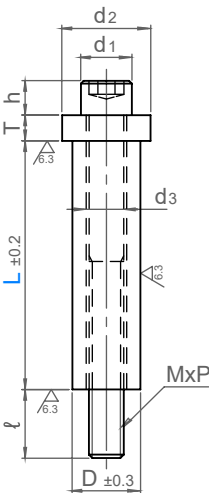


Model: 25SCBH



①  Socket Head Cap Bolt
SCM435
Hardness 12.9

② ③  S45C
Blackening



ORDER
EXAMPLE Model No - L
25SCBH32-110

Model	No.	L		D	d1	d2	d3	h	T	MxP	l
		10mm increment	20mm increment								
25SCBH	25	100 - 250	260 - 300	25.4	24	36	17.4	16	13	M16x2.0	27
	32	100 - 250	260 - 300	31.8	30	45	21.8	20	16	M20x2.5	34

Round Distance Plate - เฟลทก้นระยะ กลม

FOIL FREE™

ORDER	Model	D	T	Color
EXAMPLE	25STPM55-30-R			

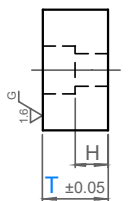
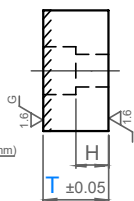
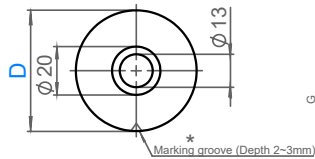
Ⓜ S45C

Model: 25STPM 25STPY 25STPME 25SPTYE

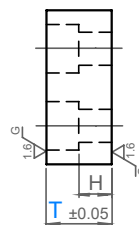
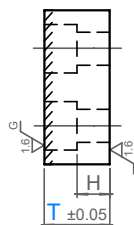
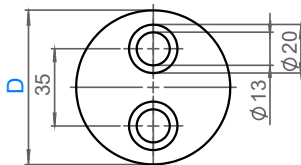
Induction hardened part

Not hardened

-One hole type-
D=45•55•65•90



-Two hole type-
D=65•80•90



* A marking groove is not provided for D45,55.

Model	D	T	Color	H	No. Bolt Hole
25STPM 25STPY	45	20	R (Red)	6	1
		30		15	
		40			
	55	20		6	
		30		15	
		40			
	65	30	Y (Yellow)	15	2
		40			
		50			
	80	30		15	
		40			
		50			
25STPME 25SPTYE	90	30	N (No Color)	15	1
		40			
		50			
	65	30		15	
		40			
		50			

Accessories

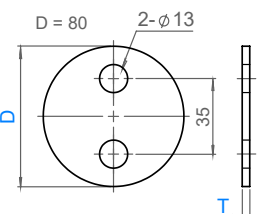
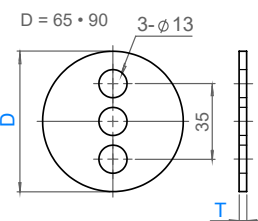
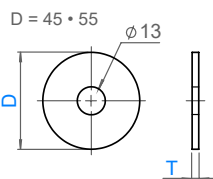
Round Distance Plate Shim - ชิม สำหรับเฟลทก้นระยะ กลม

FOIL FREE™

ORDER	Model	D	T
EXAMPLE	25STPMS55-0.30		

Ⓜ Stainless Steel (Shim Grade)

Model: 25STPMS



Model	D	T	Model	D	T
25STPMS	45	0.05	25STPMS	80	0.05
		±0.004			±0.004
		0.10			±0.005
		±0.005			0.20
		±0.006			±0.006
		0.30			±0.007
		±0.007			0.40
		±0.009			±0.009
		±0.010			±0.010
		±0.010			±0.010
		±0.020			±0.020
		±0.020		90	0.05
	55	0.05			±0.004
		±0.004			0.10
		±0.005			±0.005
		0.20			±0.006
		±0.006			0.30
		±0.007			±0.007
		±0.009			±0.009
		±0.010			±0.010
		±0.010			±0.010
		±0.020			±0.020
		±0.020			±0.020
	65	0.05			0.05
		±0.004			±0.004
		0.10			±0.005
		±0.005			0.20
		±0.006			±0.006
		0.30			±0.007
		±0.007			±0.009
		±0.009			±0.010
		±0.010			±0.010
		±0.010			±0.020
		±0.020			±0.020

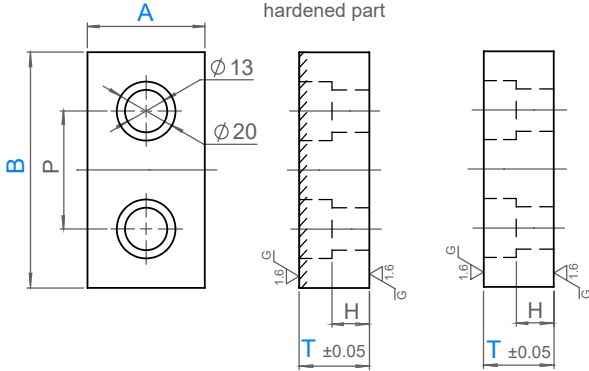
ชิ้นส่วนทั่วไป

Square Distance Plate - เหล็กกันกระยะ สี่เหลี่ยม



Model: 25STPK
Induction hardened part

25STPB
Not hardened



M S45C

FOIL FREE™

ORDER
EXAMPLE Model A - B - T - Color
25STPK50-60-30-R

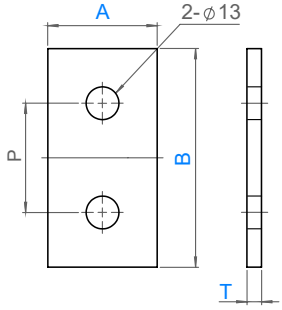
Model	A	B	T	Color	H	P
25STPK 25STPB	38	60	20	R (Red) Y (Yellow) N (No Color)	6	30
			30		15	
			40		6	55
		80	20		15	
			30		6	
			40		15	
	50	60	20		6	30
			30		15	
			40		6	55
		80	20		15	
			30		6	
			40		15	
	60	80	20		6	55
			30		15	
			40		6	70
		100	20		15	
			30		6	
			40		15	
	80	100	20		6	70
			30		15	
			40		6	85
		120	20		15	
			30		6	
			40		15	

Square Distance Plate Shim - ชิม สำหรับเหล็กกันกระยะ สี่เหลี่ยม

Model: 25STPKS

ORDER
EXAMPLE Model A - B - T
25STPKS38-80-0.30 M Stainless Steel (Shim Grade)

FOIL FREE™

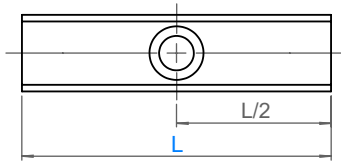
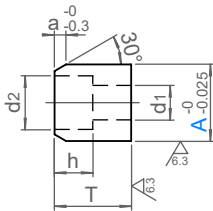


Model	A	B	T	P	Model	A	B	T	P
25STPKS	38	60	0.05	±0.004	25STPKS	60	80	0.05	±0.004
			0.10	±0.005				0.10	±0.005
			0.20	±0.006				0.20	±0.006
			0.30	±0.007				0.30	±0.007
			0.50	±0.010				0.50	±0.010
			1.00	±0.020				1.00	±0.020
		80	0.05	±0.004			100	0.05	±0.004
			0.10	±0.005				0.10	±0.005
			0.20	±0.006				0.20	±0.006
			0.30	±0.007				0.30	±0.007
			0.50	±0.010				0.50	±0.010
			1.00	±0.020				1.00	±0.020
	50	60	0.05	±0.004		80	100	0.05	±0.004
			0.10	±0.005				0.10	±0.005
			0.20	±0.006				0.20	±0.006
			0.30	±0.007				0.30	±0.007
			0.50	±0.010				0.50	±0.010
			1.00	±0.020				1.00	±0.020
		80	0.05	±0.004			120	0.05	±0.004
			0.10	±0.005				0.10	±0.005
			0.20	±0.006				0.20	±0.006
			0.30	±0.007				0.30	±0.007
			0.50	±0.010				0.50	±0.010
			1.00	±0.020				1.00	±0.020

Locating Keys - โลเคตติ้งคีย์



Model: 25SLK



ORDER
EXAMPLE

Model A - L
25SLK25-100

Ⓜ S45C

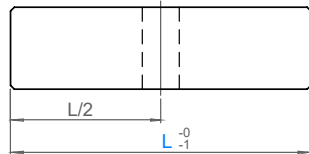
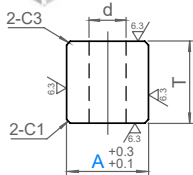
FOIL FREE™

Model	A	L	T	d1	d2	h	a
25SLK	20	60	20	9	14	10	3
		80					
	25	60	25	11	18	12	4
		80					
		100					
	28	60	25	11	18	12	4
		80					
		100					
	32	60	25	11	18	12	5
		80					
		100					

Backup Keys - แบ็คคัพคีย์



Model: 25SUKE



ORDER
EXAMPLE

Model A - L
25SUKE25-150

Ⓜ SS400

FOIL FREE™

Model	A	L	T	d
25SUKE	20	120	20	11
	25	150	25	13
	30	100	25	13
		125		
		150		

Washers for Die Fastening & Oblong Hole - วอชเชอร์สำหรับตาย และ รูคีย์

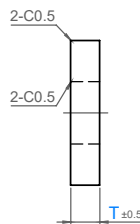
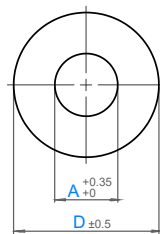
Model: 25KWN

ORDER
EXAMPLE

Model D - A - T
25KWN60-26-10

Ⓜ S45C
25-30HRC
Blackening

FOIL FREE™



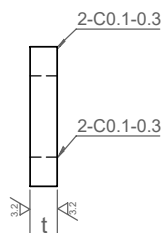
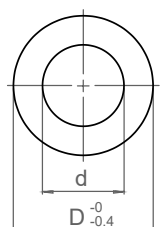
Model	D	A	T
25KWN	50	22	10
			15
	60	26	10
			15
	70	26	10
			15
	80	26	10
			15
		30	15

Model: 25WSS

ORDER
EXAMPLE

Model No
25WSS10

Ⓜ S45C
23-30HRC



Model	No.	D	d	t
25WSS	6	12.5	6.4	2.5
	8	17	8.4	2.5
	10	21	10.5	3
	12	24	13	4
	16	30	17	5
	20	37	21	5

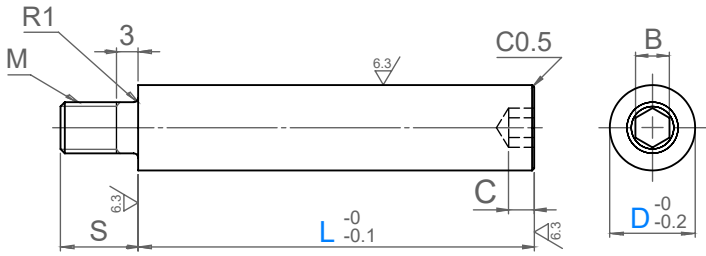
ชิ้นส่วนทั่วไป

Cushion Pins Male Thread Type - คูชันพิน แบบมีเกลียวตัวผู้

FOIL FREE™



Model: 25CPR

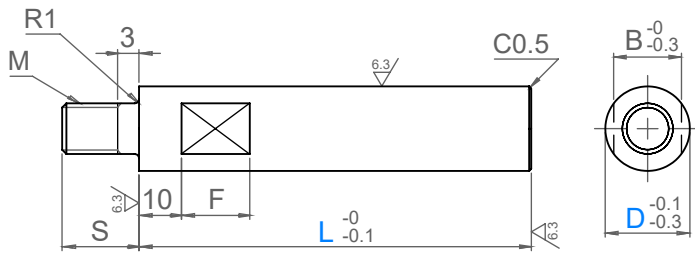


ORDER EXAMPLE Model D - L S45C 50HRC- Induction Harden

Model	D	L 10mm increments	MxP	S	B	C
25CPR	16	50 - 200	M10x1.5	15	8	5
	20	50 - 250	M12x1.75	18	10	6
	25	50 - 250	M16x2.0	24	14	9
	32	50 - 250	M20x2.5	30	17	12



Model: 25CPM



ORDER EXAMPLE Model D - L S45C 50HRC- Induction Harden

Model	D	L 10mm increments	MxP	S	B	F
25CPM	16	50 - 250	M10x1.5	12	13	16
	20	50 - 250	M12x1.75	15	16	16
	25	50 - 250	M16x2.0	18	18	16
	32	50 - 250	M20x2.5	24	21	16

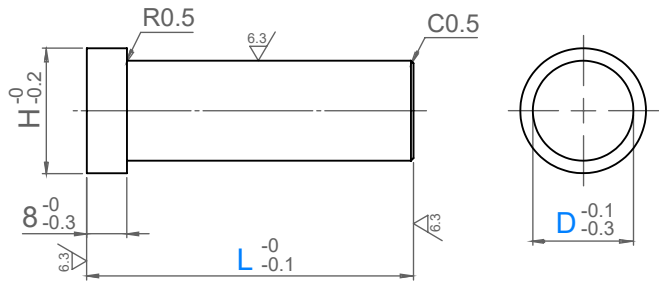
Accessories

Cushion Pins Head Type - คูลชั่นพินมีป้า

FOIL FREE™



Model: 25CPH



ORDER
EXAMPLE

Model D - L
25CPH20-100

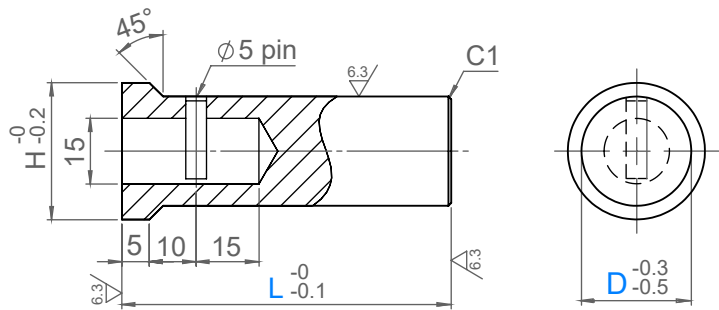


S45C
50HRC-
Induction Harden

Model	D	L	H
		10mm increments	
25CPH	10	50 - 200	15
	13	50 - 250	18
	16	50 - 250	21
	20	50 - 250	25
	25	50 - 250	30
	32	50 - 250	37



Model: 25CPL



ORDER
EXAMPLE

Model D - L
25CPL32-120



S45C
50HRC-
Induction Harden

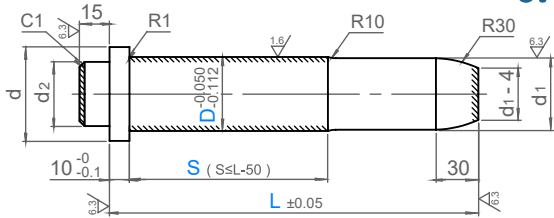
Model	D	L	H
		20mm increments	
25CPL	25	80 - 240	30
	32	100 - 240	40
	38	100 - 280	45
	50	160 - 300	60

ชิ้นส่วนทั่วไป

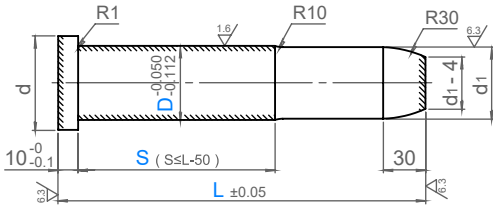
Lifter Cushion Pins - ลิฟเตอร์คัชชั่นพิน



Model: 25TCPA



Model: 25TCPB



ORDER
EXAMPLE

Model D - L - S
25TCPA30-180-100

S45C
50HRC-
Induction Harden Area

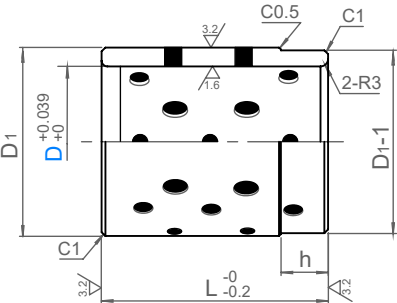
Model	D	L	S	d	d1	d2
		5mm increments	5mm increments			
25TCPA 25TCPB	30	100 - 160	50 - 110	38	29	26
		165 - 240	50 - 190			
		245 - 275	50 - 225			
	40	100 - 160	50 - 110	48	39	36
		165 - 280	50 - 230			
		285 - 360	50 - 310			
	50	365 - 460	50 - 410	58	49	46
		160 - 220	50 - 170			
		225 - 300	50 - 250			
		305 - 410	50 - 360			
		415 - 460	50 - 410			

Accessories

Lifter Cushion Pin Bushings - บุช สำหรับ ลิฟเตอร์คัชชั่นพิน



Model: 25STGF Model: 25STGW



25STGF FC250
Oil Free™
Solid Lubricant

ORDER
EXAMPLE

Model D
25STGF50

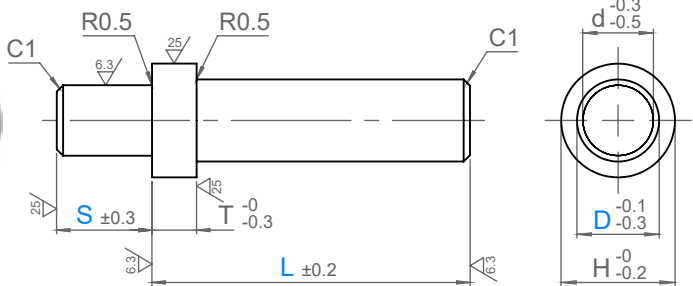
25STGW Copper Alloy
Oil Free™
Solid Lubricant

Model	D	D1		h	L
25STGF 25STGW	30	50	±0.008	10	60
	40	60	±0.0095	15	80
	50	70		15	100

Plate Lifter Pins - เพลทลิฟเตอร์พิน

FOIL FREE™

Model: 25PLP



ORDER
EXAMPLE

Model D - L
25PLP32-120



S45C
50HRC-
Induction Harden

Model	D	L 10mm increments	S 1mm increments	d	T	H
25PLP	13	100 - 250	10 - 20	10	8	18
	16	100 - 300	10 - 20	13	8	21
	20	100 - 400	15 - 30	16	8	25
	25	100 - 500	15 - 40	20	8	30
	32	100 - 500	15 - 50	25	8	40

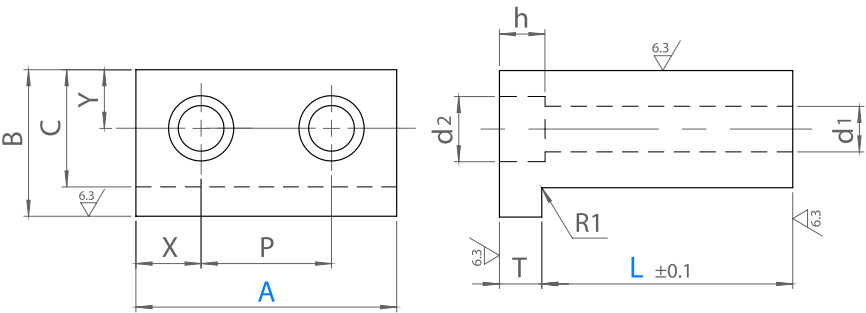
Accessories

Lifter Plate Stopper - ลิฟเตอร์เพลทสต็อปเปอร์

FOIL FREE™



Model: 25LPE



ORDER
EXAMPLE

Model A - L
25LPE80-100



S45C

Model	A	L 1mm increments	B	T	C	X	Y	P	d1	d2	h
25LPE	60	40 - 80	38	10	30	15	15	30	11	18	12
	80	50 - 100	45	13	36	20	18	40	14	20	14
	100	60 - 100	60	15	50	25	25	50	18	26	18