



MASTER TECH & SYSTEMS CO., LTD.

บริษัท มาสเตอร์เทค แอนด์ ซิสเต็มส์ จำกัด

2025 CATALOG

- **Mold Components**
(Standard & Customizable)
- **Grinding round bars**
- **Special Steel**

ชิ้นส่วนแม่พิมพ์
เหล็กเกรดพิเศษ
เหล็กเจียรน้อยผิวสำเร็จรูป



02-756-0000



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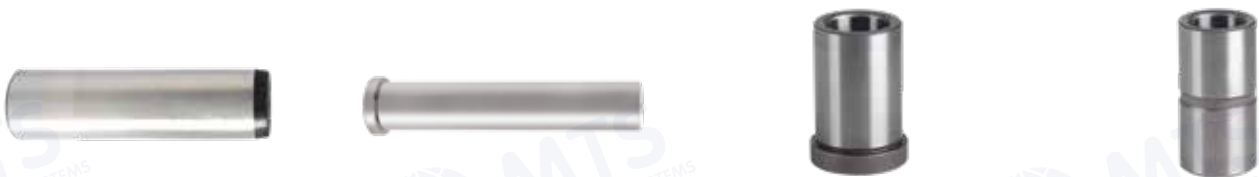
A หมวดอะไหล่แม่พิมพ์พลาสติก

Standard Components for Plastic Mold

1 - 59



Guide Pins		Guide Pins		Guide Pins		Guide Pins	
สลักนำมีขา		สลักนำมีขาสองตอน		สลักนำมีขา		สลักนำ	
GPA	P2	GPB	P2	GPJL	P3	GPOL	P3



Guide Pins		Guide Pins		Guide Bushes		Guide Bushes	
สลักนำ		สลักนำมีขา		ปลอกนำมีขา		ปลอกนำไม่มีขา	
GPOL	P4	GPHL	P4	BA / GBAM	P5	BB / GBBM	P5



Guide Bushes		Guide Bushes		Oil Free Guide Bushes		Oil Free Guide Bushes	
ปลอกนำมีขาแบบมีร่องน้ำมัน		ปลอกนำไม่มีขาแบบมีร่องน้ำมัน		ปลอกนำไม่มีน้ำมันมีขา		ปลอกนำไม่มีน้ำมันไม่มีขา	
GBHE	P6	GBSE	P6	GBHDZ	P7	GBSDZ	P7



Ejector Guide Bushes		Ejector Guide Bushes		Ejector Guide Bushes		Oil Free Ejector Guide Bushes	
ปลอกนำอีเจ็คเตอร์		ปลอกนำอีเจ็คเตอร์		ปลอกนำอีเจ็คเตอร์		ปลอกนำอีเจ็คเตอร์ไม่มีน้ำมัน	
EGBH	P8	EGB	P8	EGBN	P9	EGBZ	P9



Ejector Guide Pins		Ejector Guide Pins		Ejector Guide Pins		Ejector Guide Pins	
อีเจ็คเตอร์ไกด์พิน		อีเจ็คเตอร์ไกด์พิน		อีเจ็คเตอร์ไกด์พิน		อีเจ็คเตอร์ไกด์พิน	
EGH	P10	EGHC	P10	EGPP	P11	EGPD	P11

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Standard Components for Plastic Mold

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Bolts For Ejector Plate		Support Pillars		Support Pins		Support Pins	
สลักสำหรับชุดแผ่นเพลทเข็มกระทุ้ง		เสาซัพพอร์ต		ซัพพอร์ตพิน		ซัพพอร์ตพิน	
EPB	P12	SPL	P12	SPP	P13	SPP-OC	P13



Stop Ring / Stop Pin		Return Pins		Angular Pins		Angular Pins	
แหวนสตอป / สตอปพิน		เข็มกระทุ้งกลับ		แองกูล่าพิน		แองกูล่าพิน	
STR / STPN	P14	RPH / RP8TH	P14	AP	P15	APU	P15



Leader Pins For Rubber Mold		Leader Pins For Rubber Mold		Leader Bushes For Rubber Mold		Ejector Pins	
สลักนำแม่พิมพ์ยาง		สลักนำแม่พิมพ์ยาง		ปลอกนำแม่พิมพ์ยาง		เข็มกระทุ้ง SKD61	
GMT	P16	GMR	P16	GMB	P17	EPN / EPJ / EPS	P18



Ejector Pins		Ejector Pins		Ejector Pins		Ejector Pins	
เข็มกระทุ้ง SKH51		เข็มกระทุ้ง SKH51		เข็มกระทุ้ง SCM		เข็มกระทุ้ง	
EPH / EPHE-B / EPHS	P19	EPHJ / EPHJE / EPHJS	P19	EPCM	P20	Z-EPH-L	P20



Step Ejector Pins		Sleeve Ejector Pins		Flat Ejector Pins		Flat Ejector Pins	
เข็มกระทุ้งสองตอน		ปลอกกระทุ้ง		เข็มกระทุ้งแบน SKH51		เข็มกระทุ้งแบน SKD61	
ENS / EJS	P21	ESJ	P22	ERPH / ERJ	P23	ERNX	P24

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Runner Lock Pins	Sprue Bushes	Sprue Bushes	Sprue Bushes
สลักล็อกรันเนอร์	หัวฉีด	หัวฉีด	หัวฉีด
RLR / RLRL P24	SB P25	SBBP / SBBK / SBBS P26	SBGP / SBGK / SBGS P26



Sprue Bushes	Sprue Bushes	Locating Rings	Locating Rings
หัวฉีด	หัวฉีด	แหวนรองหัวฉีด	แหวนรองหัวฉีด
SBSM / SBSM / SBSS P27	SBTM / SBTD / SBTS P27	LRA P28	LRB P28



Locating Rings	Plain Guide Rails	Plain Guide Rails	Taper Pins
แหวนรองหัวฉีด	ไกด์เรล	ไกด์เรลแบบมีร่องน้ำมัน	เทเปอร์พิน
LRK P28	GRS P29	GRSM P29	TPN / TPNV P30



Puller Bolts	Stop Bolts	Slide Adjustment Plates	Slide Adjustment Plates
พูลเลอร์โบลท์	สต๊อปโบลท์	แผ่นเพลทปรับสไลด์	แผ่นเพลทปรับสไลด์แบบมีร่องน้ำมัน
PBTN P31	STBG P31	SAS P32	SASM P32



Slide Adjustment Plates	Oil Free Slide Units	Oil Free Inclined Pin Holders	Slide Locks
แผ่นเพลทปรับสไลด์	ชุดสไลด์ลอยฟรี	ชุดสไลด์ยึดพินเอียงลอยฟรี	สไลด์ล็อก
SAPZ P32	SCZN P33	SCZNP P34	SLLK P34



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Standard Components for Plastic Mold

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Latch Locks	Taper Block Sets	Taper Block Sets	Tapered Block Sets
ตัวล็อกแม่พิมพ์	ชุดเทเปอร์บล็อก	ชุดเทเปอร์บล็อก	ชุดเทเปอร์บล็อก
DTP P35	TBS P36	TBSF P37	S02 P38



Side Locks	Side Straight Block Sets	Side Straight Block Sets	Positioning Straight Block Sets
ตัวล็อกตำแหน่งแม่พิมพ์	ตัวล็อกตำแหน่งแม่พิมพ์	ตัวล็อกตำแหน่งแม่พิมพ์	ตัวล็อกตำแหน่งแม่พิมพ์
PL P38	TSSB P39	TSSBN P40	TTSB P41



Positioning Block Sets	Roller Lock Sets	Magnet Lock Sets	Parting Lock Sets
ตัวล็อกตำแหน่งแม่พิมพ์	ชุดล็อกโรลเลอร์	ชุดล็อกแม่เหล็ก	ชุดพาร์ตติงล็อก
LBJX P42	MPLK P43	MLK P44	PLS / PLL / PLM P45



Parting Locks	Air Jet Valves	Cooling Plugs	Cooling Plugs
พาร์ตติงล็อก	ตัวระบายอากาศ	ตัวอุดรูน้ำ	ตัวอุดรูน้ำ
PL / PLO P46	AJV P46	CL P47	JWP P47



Date Inserts	Date Inserts	Date Inserts	Date Inserts
ตัวขึ้นบอวันที่ (แบบถอดใส่ไม่ได้)	ตัวขึ้นบอวันที่ (แบบถอดใส่ได้)	ตัวขึ้นบอวันที่ (แบบถอดใส่ได้)	ตัวขึ้นบอวันที่
DM□ P48	DT□ P48	DT□X P48	DTBZ / DTEZ P49

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Recycle Mark		Mold Shot Counters		Mold Shot Counters		Mold Shot Counters	
ตัวขับเคลื่อนเครื่องหมายรีไซเคิล		ตัวนับจำนวนแม่พิมพ์		ตัวนับจำนวนแม่พิมพ์		ตัวนับจำนวนแม่พิมพ์	
RM□□	P49	M-CVPL	P50	M-CVR	P50	M-RCC	P50



Mold Shot Counters		Shim Plates		Fitting Joints		Fitting Joints	
ตัวนับจำนวนแม่พิมพ์		แผ่นชิม		ข้อต่อตรง		ข้อต่องอ	
M-RCCB	P50	CS / SS	P51	M-PC	P52	M-PL	P52



Fitting Joints		Fitting Joints		Fitting Joints		Fitting Joints	
ข้อต่อตรง		ข้อต่อตรง		ข้อต่อตรง		ข้อต่อตรง	
M-POC	P53	M-POCL	P53	M-120KC	P54	M-120KOC	P54



Cooling Joints		Cooling Joints		Cooling Joints		Tapered Screw Conversion Plugs	
ข้อต่อทองเหลือง		ข้อต่อทองเหลือง		ข้อต่อทองเหลือง		ข้อต่อแปลงเกลียว	
JTW / JTWS	P55	JEMF / JEMFR	P55	JEMM / JEMMR	P56	JEFS / JEFSSR	P56



L-Shaped Swivel Joints		L-Shaped Swivel Joints		L-Shaped Swivel Joints		L-Shaped Swivel Joints	
ข้อต่อตัว L		ข้อต่อตัว L		ข้อต่อตัว L		ข้อต่อตัว L	
LSN	P57	LSNM	P57	LSNF	P58	LSNFM	P58

A หมวดอะไหล่แม่พิมพ์พลาสติก Standard Components for Plastic Mold

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L-Shaped Swivel Joints		L-Shaped Swivel Joints	
ข้อต่อตัว L		ข้อต่อตัว L	
LSP	P59	LSPM	P59

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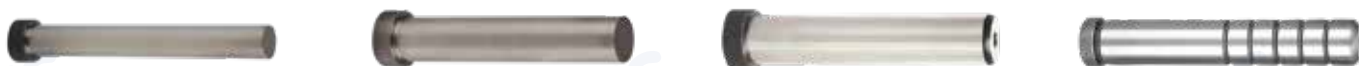
B หมวดอะไหล่แม่พิมพ์โลหะ

Standard Components for Press Dies

60 - 72



Guide Post Sets		Guide Post Sets		Ball Bearing Guide Post Sets		Ball Bearing Guide Post Sets	
ไกด์โพสต์		ไกด์โพสต์		ไกด์โพสต์แบบปลอกลูกปืนพลาสติก		ไกด์โพสต์แบบปลอกลูกปืนพลาสติก	
GPS	P61	GPSP	P61	GPSB	P62	GPBP	P62



Straight Punches		Straight Punches		Stripper Guide Pins		Stripper Guide Pins	
พินซ์ตรง SKD11		พินซ์ตรง SKH51		สตริปเปอร์ไกด์พิน		สตริปเปอร์ไกด์พิน	
PD	P63	PH	P63	SGPH	P64	SGOH	P64



High Rigidity Stripper Guide Pins		High Rigidity Stripper Guide Pins		Stoppers For Ball Cages		Clamps For Stripper Guide Pins	
สตริปเปอร์ไกด์พินแบบแข็งแรงสูง		สตริปเปอร์ไกด์พินแบบแข็งแรงสูง		สต็อปเปอร์สำหรับปลอกลูกปืน		แคลมป์สำหรับสตริปเปอร์ไกด์พิน	
SGPWS	P65	SGPWH	P65	SSTK	P66	FCLP	P66



Stripper Guide Bushings		Stripper Guide Bushings		Stripper Guide Bushings		Stripper Guide Bushings	
สตริปเปอร์ไกด์บุชชิง		สตริปเปอร์ไกด์บุชชิง		สตริปเปอร์ไกด์บุชชิง		สตริปเปอร์ไกด์บุชชิง	
SGBA	P67	SGBH	P67	SGBL	P67	SGBT	P67



Stripper Guide Bushings		Stripper Guide Bushings		Stripper Guide Bushings		Ball Cages	
สตริปเปอร์ไกด์บุชชิง		สตริปเปอร์ไกด์บุชชิง		สตริปเปอร์ไกด์บุชชิง		ปลอกลูกปืนอลูมิเนียม / เรซิน	
SGBBW	P68	SGBBS	P68	SGBBH	P68	MBSH / MBJH	P69

B หมวดอะไหล่แม่พิมพ์โลหะ

Standard Components for Press Dies

60 - 72



Ball Cages		Ball Cages		Urethanes		Urethanes	
ปลอกลูกปืนอลูมิเนียม / เรซิน		ปลอกลูกปืนทองเหลือง		ยูรีเทนแท่งกลมสีเหลือง (แบบมีรู)		ยูรีเทนแท่งกลมสีเหลือง (แบบตัน)	
MBS / MBJ	P69	EMBS	P70	UTH	P71	UTS	P71



Urethanes		Urethane		Urethane		Urethane	
ยูรีเทนแท่งกลมสีดำ (แบบมีรู)		ยูรีเทนแท่งกลมดำ (แบบตัน)		ยูรีเทนแผ่น (สีดำ / สีเหลือง)		ยูรีเทนแท่งเหลี่ยม (สีดำ / สีเหลือง)	
HUTH	P71	HUTS	P71	UTE / HUTE	P72	UTP / HUTP	P72



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C หมวดสปริง

Die Springs

73 - 79



High Deflection Springs		High Deflection Springs		High Deflection Springs		Ultra High Deflection Springs	
สปริงสีขา		สปริงสีม่วง		สปริงสีเขียวอ่อน		สปริงสีเขียวอ่อน	
TR	P74	TY	P74	MRS	P74	SWY	P75



Ultra Deflection Springs		High Deflection Springs		Medium Deflection Springs		Medium Deflection Springs	
สปริงสีฟ้าอ่อน		สปริงสีขาวเงา		สปริงสีส้ม		สปริงสีม่วงอ่อน	
SWU	P75	SWR	P75	SWS	P76	SWC	P76



Yellow Die Springs		Blue Die Springs		Red Die Springs		Green Die Springs	
สปริงสีเหลือง		สปริงสีน้ำเงิน		สปริงสีแดง		สปริงสีเขียว	
SWF	P77	SWL	P77	SWM	P78	SWH	P78



Brown Die Springs		Black Die Springs	
สปริงสีน้ำตาล		สปริงสีดำ	
SWB	P79	SWG	P79



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D หมวดสกรู

Screws

80 - 89



Eye Bolts		Hook (Plate Type)		Stripper Bolts		Stripper Bolts	
อายโบลท์		हुหัวแม่พิมพ์		สตรีปเปอร์โบลท์		สตรีปเปอร์โบลท์	
CHI	P81	CHP	P82	MSB	P83	MSBL	P83



Screw Plugs		Tapered Screw Plugs		Flat Washer		Spring Washer	
ปลั๊กอุด		ปลั๊กสกรูเทเปอร์		แหวนอีแปะ		แหวนสปริงใน	
MSW	P84	MSWT	P85	FW	P85	SW#1	P85



Spring Washer		Socket Head Cab Screws		Flat Head Socket Cab Screws		Nuts	
แหวนสปริงนอก		สกรูหัวจม		สกรูหัวจมเตเปอร์		หัวน็อตมิลด้า	
SW#2	P85	CB	P86	FB	P86	NUT	P87



Set Screws		Dowel Pins		Dowel Pins		Ball Plungers	
ตัวหนอนมิล		โดเวลพินแบบตัน		โดเวลพินแบบเกลียว		ลูกตันสปริง	
MSWJ	P87	MS	P88	MSTH	P88	BPJ	P89



Ball Plungers	
ลูกตันสปริง	
BSJ	P89

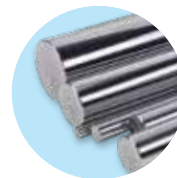
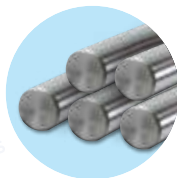
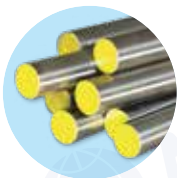
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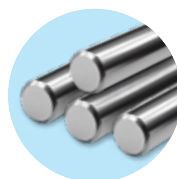
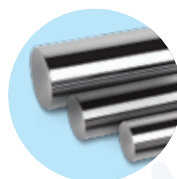
E หมวดเพลาลำเรือรูป

Linear Rods

90 - 94



Silver Steel Rod		Grinding Rod		Grinding Rod		Hardchrome Rod	
เพลาลำเรือ SK4		เพลาลำเรือ S45C		เพลาลำเรือ SCM440		เพลาลำเรือโครม S45C	
SK4-G	P91	S45C-G	P91	SCM440-G	P92	S45C-HC	P92



Shaft		Centerless Grinding Bar		Centerless Grinding Bar	
เพลาลำเรือโครม ชูบแข็ง SUJ2		เพลาลำเรือสแตนเลส SUS303		เพลาลำเรือสแตนเลส SUS304	
SUJ2-HC	P93	SUS303-G	P93	SUS304-G	P94

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Standard Components for Plastic Mold

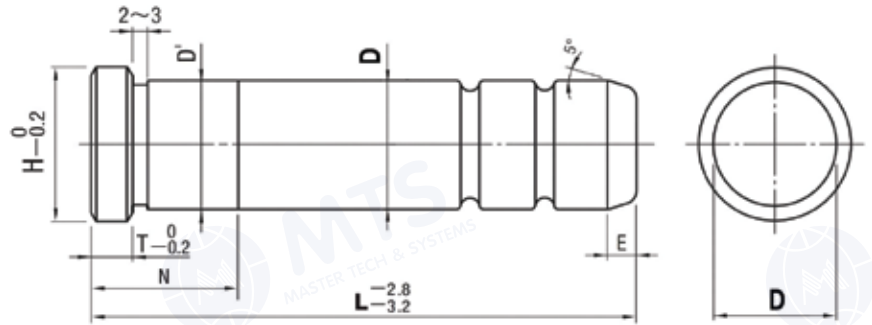


Guide Pins สลักนำมีขา (GPA)



Code	GPA
Material	SCM415
Hardness	58 HRC ~

Order Code D x L
GPA 25 x 100



Code	D		D'		L	H	T	E
GPA	12	-0.005	12	+0.020	50 - 200	15	5	5
	16		16		50 - 300	20	6	
	18		18		50 - 300	23		
	20		20		50 - 350	25		
	25	-0.020	25	+0.005	50 - 350	30	8	
	30		30		50 - 350	35		
	35		35		55 - 400	40		
	40		40		130 - 450	45	10	

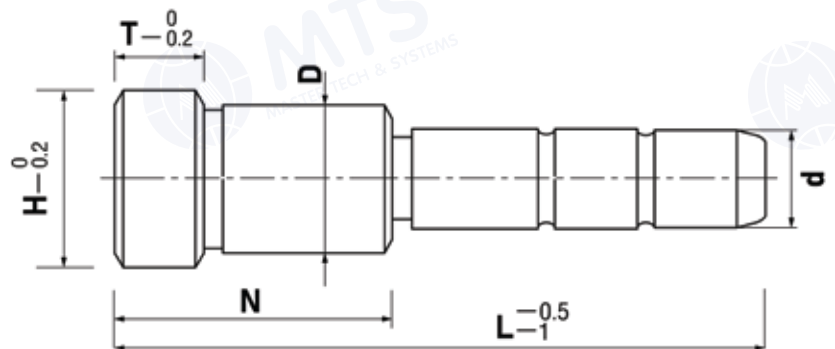
L	~ 50	55 - 95	100 - 130	135 - 160	165 - 220	225 ~
N	15	20	25	30	35	40

Guide Pins สลักนำมีขาสองตอน (GPB)



Code	GPB
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L x N
GPB 25 x 100 x N30



Code	d		D		H	T	L	N
GPB	16	-0.016 -0.027	25	+0.021 +0.008	30	6	กำหนดตามแบบลูกค้า	กำหนดตามแบบลูกค้า
	20	-0.020 -0.033	30	+0.025 +0.009	35	8		
	25		35		40			
	30		42		47	10		
	35	-0.025 -0.041	48	+0.030 +0.011	54			
	40		55		61			
	50		70		76	15		
	60	-0.030 -0.049	80	86				

หมายเหตุ ลูกค้าต้องกำหนดระยะ N ตามขนาดที่ต้องการ (ระยะ N ขึ้นอยู่กับความหนาของแผ่น Plate ที่นำสลักไปสวม)

Guide Pins สลักนำมีขา (GPJL)

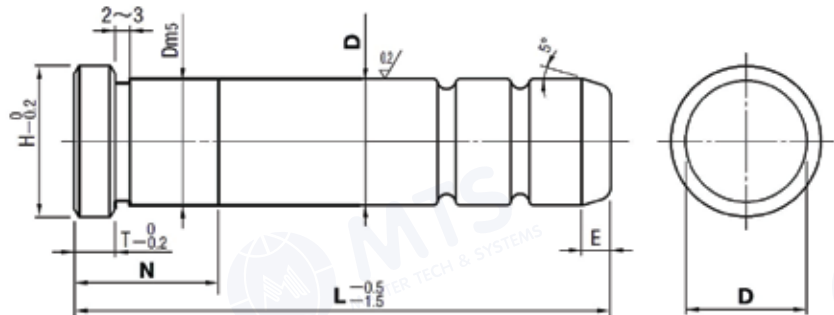
A

Standard Components
for Plastic Mold



Code	GPJL
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
GPJL 25 x 100 x N20



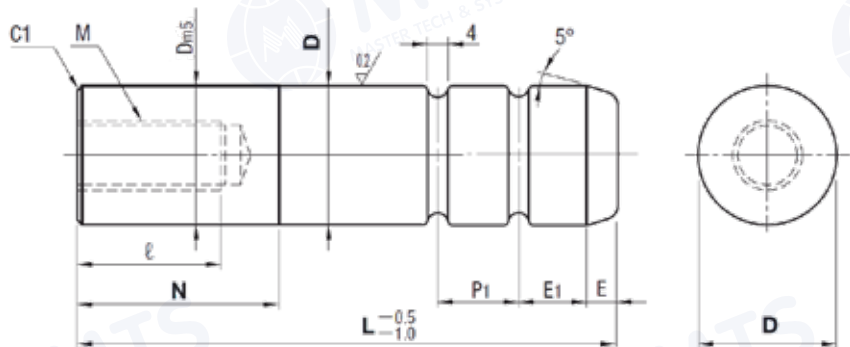
Code	D		Dm5		H	T	E	L	N
GPJL	8	-0.015	8	+0.012	11	5	3	40 - 80	กำหนดตามแบบลูกค้า
	10	-0.020	10	+0.006	13		4	40 - 80	
	12	-0.020	12	+0.015	17		5	40 - 200	
	13		13		18	40 - 200			
	16	-0.025	16	+0.007	21	6		40 - 250	
	20	-0.025	20		+0.017			25	
	25		25	30				8	
	30	-0.030	30	+0.008	35	60 - 400			
	35	-0.030	35		+0.020	40			
	40		-0.040	40		+0.009	45	10	
	50		50		56		12	8	
	60	-0.030 -0.050	60	+0.024 +0.011	65	15	200 - 550		

Guide Pins สลักนำ (GPOL)



Code	GPOL
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
GPOL 35 x 100 x N30



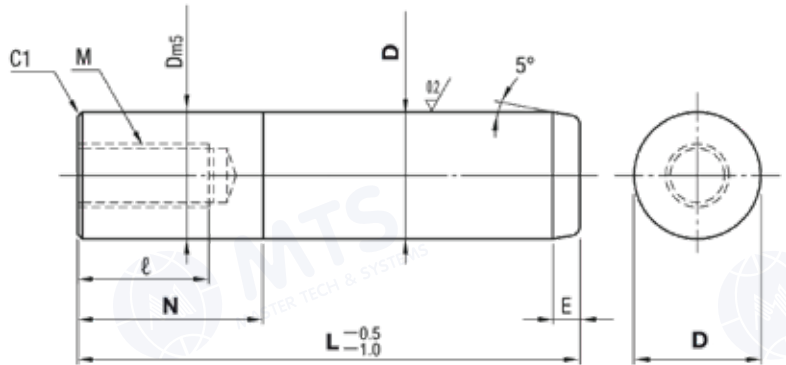
Code	D		Dm5		L				N	E	E1	P2	No. of groove	M x P	ℓ	
GPOL	35	-0.030 -0.035	35	+0.020 +0.009	100				0 - 60	8	14	12	2	M16 x 2.0	32	
					110 120 130						15	13				
					140 150 160						0 - 80	16				14
					170 180 190 200							26				24
	40	-0.030 -0.040	40		130 140				0 - 60		28	26				
					150 160 170 180 190				0 - 80		30	28				
					200 210 220						28	26				
					150				0 - 80		30	28				
	50	-0.030 -0.040	50		160 170						0 - 100	32		30		
					180 190				34			32				
					200 210 220 230 240				30			28				
					250 260				32			30				
	60	-0.030 -0.050	60		+0.024	200 210 220 230 240					0 - 120	30		28	M20 x 2.5	40
					+0.011	250 260 270 280						32		30		

Guide Pins สลักนำ (GPSL)



Code	GPSL
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
GPSL 30 x 100 x N25



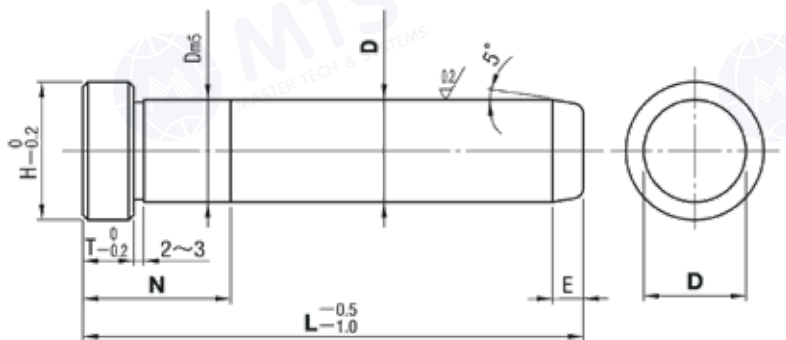
Code	D		Dm5		L	N	M x P	ℓ	E
GPSL	8	-0.015	8	+0.012	40 - 70	0 - 40	M5 x 0.8	10	3
	10	-0.020	10	+0.006	40 - 70				4
	12	-0.020	12	+0.015	40 - 160	0 - 100	M6 x 1.0	12	5
	13		-0.025		13				
	16	16		40 - 200					
	20	-0.025	20	+0.017	40 - 220		M8 x 1.25	16	
	25		25		+0.008		50 - 260	M12 x 1.75	
	30	-0.030	30	70 - 260					
	35	-0.030 -0.035	35	+0.009	100 - 300	0 - 120	M16 x 2.0	32	8
	40	-0.030	40		100 - 300	0 - 140			
	50	-0.040	50		100 - 400	0 - 200			
	60	-0.030 -0.050	60	+0.024 +0.011	150 - 500		M20 x 2.5	40	

Guide Pins สลักนำมีขา (GPHL)



Code	GPHL
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
GPHL 30 x 100 x N25



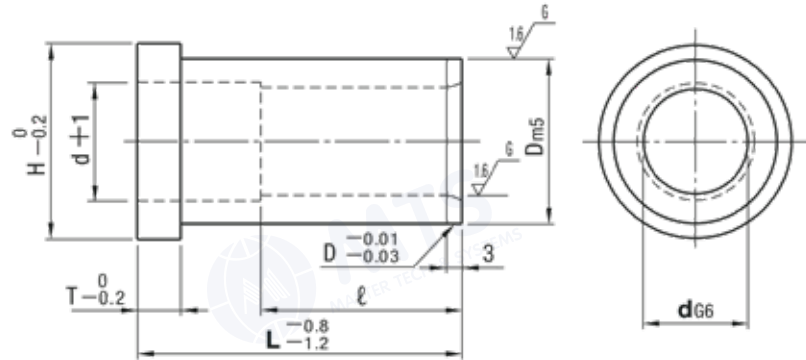
Code	D		Dm5		L	N	H	T	E
GPHL	8	-0.015	8	+0.012	30 - 80	10 - 60	11	5	3
	10	-0.020	10	+0.006	30 - 80		13		4
	12	-0.020	12	+0.015	30 - 200	10 - 80	17	8	5
	13	-0.025	13	+0.007	30 - 200		18		
	16	-0.025	16	+0.007	30 - 250	13 - 80	21		
	20	-0.025	20	+0.017	30 - 300	13 - 100	25		
	25	-0.025	25	+0.017	40 - 350	13 - 120	30		
	30	-0.030	30	+0.008	50 - 400	13 - 130	35		
	35	-0.030 -0.035	35	+0.020	60 - 450	13 - 130	40	10	8
	40	-0.030	40	+0.009	80 - 500	15 - 200	45		
	50	-0.040	50		100 - 550	17 - 200	55	12	
	60	-0.030 -0.050	60	+0.024 +0.011	200 - 550	20 - 200	65	15	

Guide Bushes ปลอกนำมีขา BA (GBAM)



Order Code d x L
BA 25 x 100

Code	BA / GBAM
Material	SUJ2
Hardness	58 HRC ~



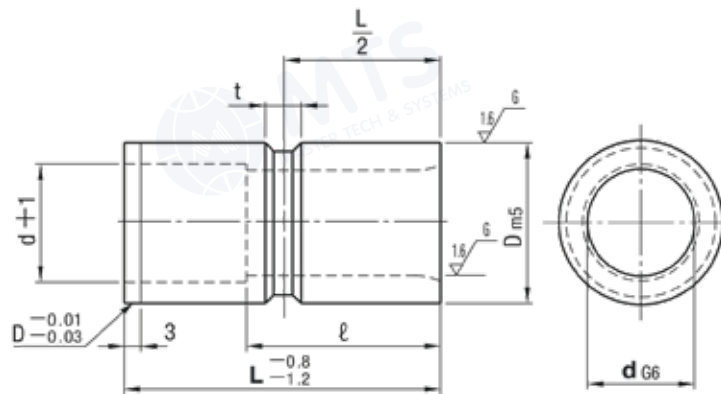
Code	d _{G6}		D _{m5}		H	T	e																	
BA GBAM	8	+0.014	12	+0.015	14	5	15	15	15	-	-	-	-											
	10	+0.005	14	+0.007	16		15	20	20	20	20	20												
	12	+0.017	18	+0.017	22		15	20	25	25	25	25	25											
	13		20		25		25	25	25	25														
	16	+0.006	25	+0.008	30	6	15	20	25	30	35	30	30	30	30	30	30							
	18		28		33		15	20	25	30	35	35	35	35	35	35								
	20	+0.020	30	+0.020	35	8	15	20	25	30	35	40	40	40	40	40	40	40	40	40	40	40	40	
	25		35		40		20	25	30	35	40	45	50	50	50	50	50	50	50	50	50	50	50	
	30	+0.007	42	+0.009	47	10	-	20	25	30	35	40	45	50	55	60	60	60	60	60	60	60	60	60
	35		48		54				25	30	35	40	45	50	55	60	60	60	60	60	60	60	60	60
	40	+0.025	55	+0.024	61	12	-	25	30	35	40	45	50	55	60	70	80	80	80	80	80	80	80	80
	50	+0.009	70		76				25	30	35	40	45	50	55	60	70	80	90	100	100	100	100	100
	60	+0.029 +0.010	80	+0.011	86				-	-	-	-	-	-	60	70	80	90	100	110	120	120	120	120

Guide Bushes ปลอกนำไม่มีขา BB (GBBM)



Order Code d x L
BB 25 x 100

Code	BB / GBBM
Material	SUJ2
Hardness	58 HRC ~



Code	dg6		Dm5		t	ℓ																	
						L15	L20	L25	L30	L35	L40	L45	L50	L55	L60	L70	L80	L90	L100	L110	L120		
BB GBBM	8	+0.014	12	+0.015 +0.007	4	15	15	15	-	-	-												
	10	+0.005	14			15	20	20	20	20	20	-	-										
	12		18			15	20	25	25	25	25			-									
	13	+0.017	20	+0.017 +0.008	5	15	20	25	25	25	25	25	25				-	-	-	-			
	16	+0.006	25			15	20	25	30	35	30	30	30	30							-	-	
	18		28			15	20	25	30	35	35	35	35	35	35								
	20	+0.020 +0.007	30	6	15	20	25	30	35	40	40	40	40	40	40	40	40	40	40				
	25				20	25	30	35	40	45	50	50	50	50	50	50	50						
	30				20	25	30	35	40	45	50	55	60	60	60	60	60	60					
	35	+0.025 +0.009	48	8	20	25	30	35	40	45	50	55	60	70	70	70	70	70	70	70	70	70	
	40				20	25	30	35	40	45	50	55	60	70	70	70	70	70	70	70	70		
	50				25	30	35	40	45	50	55	60	70	80	80	80	80	80	80	80			
		+0.009	70	+0.024 +0.011	9	-		25	30	35	40	45	50	55	60	70	80	90	100	100	100	100	
	+0.029 +0.010	80		11		-		-	-	-	-	50	-	60	70	80	90	100	110	120			

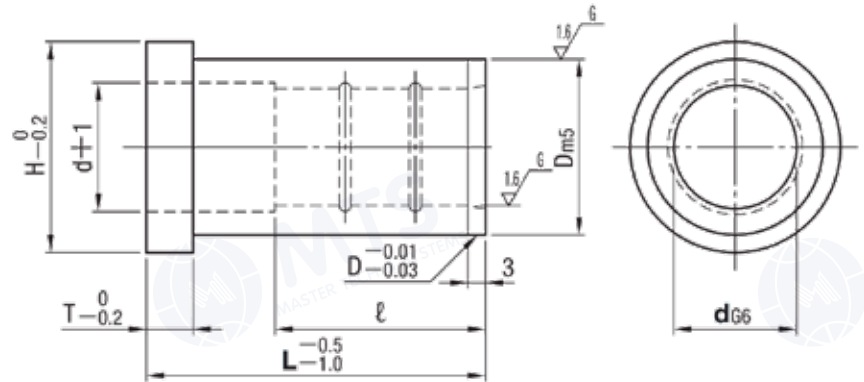
Guide Bushes

ปลอกนำมีท่าแบบมีร่องน้ำมัน (GBHE)



Code	GBHE
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
GBHE 25 x 100



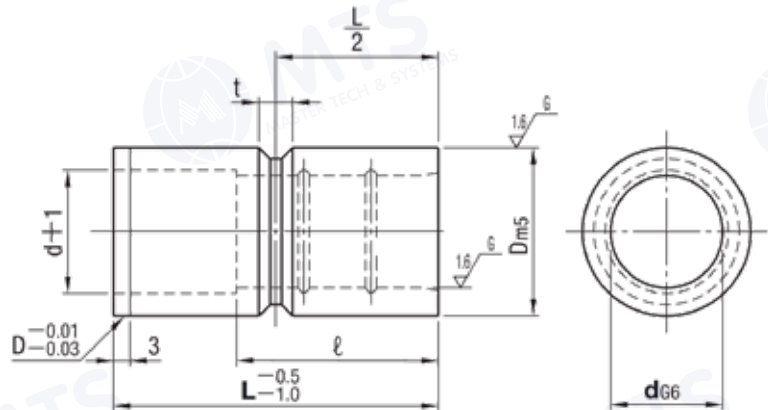
Code	dg6		Dm5		H	T	e																																							
							L15	L20	L25	L30	L35	L40	L45	L50	L60	L70	L80	L90	L100	L110	L120	L130	L140	L150																						
GBHE	8	+0.014	12	+0.015	14	5	15	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
	10	+0.005	14	+0.007	16		15	20	20	20	20	20	-	-											-	-	-	-	-	-	-	-	-													
	12	+0.017	18	22	15		20	25	25	25	25	25	25	25											-	-	-	-	-	-	-	-	-	-												
	13		+0.006		20		25	25	25	25	25	25	25	25											-	-	-	-	-	-	-	-	-	-												
	16	+0.008	25	30	6	15	20	25	30	35	30	30	30	40	40	40	50	50	50	50	50	50	50	-	-																					
	20		+0.020		30	35	20	25	30	35	40	40	40													40	40	40	40	40	40	40	40	40	40	40	40									
	25	+0.007	35	+0.020	40	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																				
	30	+0.009	42	47	20																						25	30	35	40	45	50	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	35		+0.025		48																						54	30	35	40	45	50	60	70	70	70	70	70	70	70	70	70	70	70	70	70
	40	+0.009	55	+0.024	60																						10	30	35	40	45	50	60	70	80	80	80	80	80	80	80	80	80	80	80	80
	50	70	75		12	-	-	-	-	-	-	-	60	70	80	90	100	100	100	100	100	100	100	100	100	100																				
		60	+0.029 +0.010	80	+0.011	86				-	-	-	-	-	60	70	80	90	100	110	120	120	120	120	120	120																				

Guide Bushes ปลอกนำไม่มีท่าแบบมีร่องน้ำมัน (GBSE)



Code	GBSE
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
GBSE 25 x 100



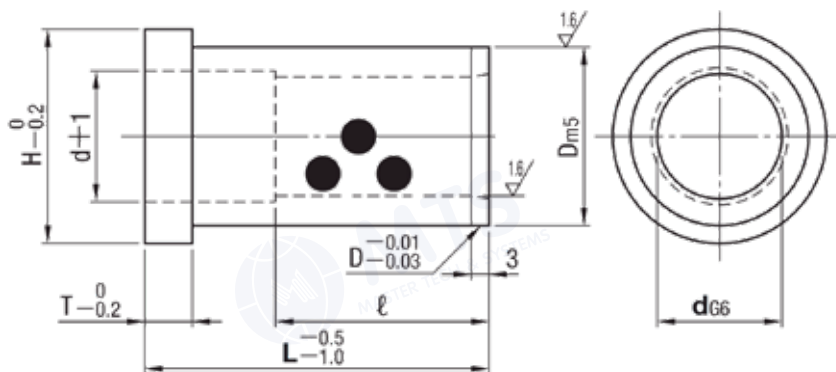
Code	dG6		Dm5		T	e																
						L15	L20	L25	L30	L35	L40	L45	L50	L60	L70	L80	L90	L100	L110	L120		
GBSE	8	+0.014	12	+0.015 +0.007	6	15	15	15	-	-	-											
	10	+0.005	14			15	20	20	20	20	20	-	-									
	12	+0.017 +0.006	18	+0.017 +0.008		15	20	25	25	25	25	25			-	-						
	13		15			20	25	25	25	25	25											
	16		25	+0.020 +0.009		15	20	25	30	35	30	30	30						-	-		
	20		30			15	20	25	30	35	40	40	40	40	40							
	25	+0.020	35	8 ⎧ L= 15 →t=6 ⎫	-	-	20	25	30	35	40	45	50	50	50	50	50	50				
	30	+0.007	42				20	25	30	35	40	45	50	60	60	60	60	60				
	35	+0.025 +0.009	48					25	30	35	40	45	50	60	70	70	70	70				
	40		25				30	35	40	45	50	60	70	80	80	80	80	80	80			
	50		70				+0.024 +0.011				30	35	40	45	50	60	70	80	90	100	100	100
	60	+0.029 +0.010	80								-	-	-	-	50	60	70	80	90	100	110	120

Oil Free Guide Bushes ปลอกนำไม้น้ำมันมีบา (GBHDZ)



Code	GBHDZ
Material	Brass with graphite

Order Code d x L
GBHDZ 25 x 100



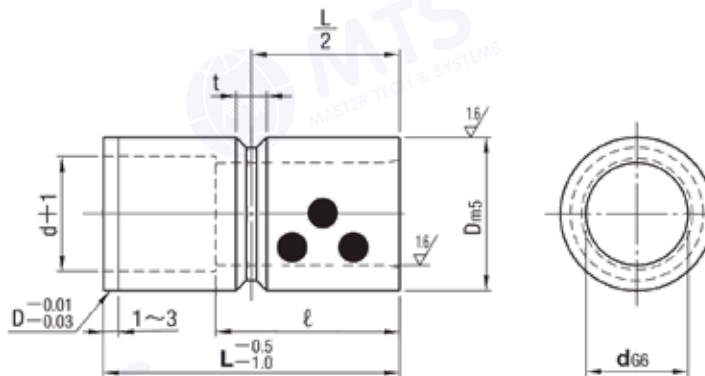
Code	dG6		Dm5		H	T	ø																	
							L15	L20	L25	L30	L35	L40	L50	L60	L70	L80	L90	L100	L110	L120	L130	L150		
GBHDZ	8	+0.014	12	+0.015	14	5	-	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-		
	10	+0.005	14		+0.007		16	15	20	20	20	20											20	-
	12	+0.017	18				+0.017	22	15	20	25	-											-	-
	13		+0.006	20	+0.017	25		6	15	20	25	25	25	25	25	-	-	-	-	-	-	-		
	16	+0.008	25	+0.017		30	15		20	25	30	35	30	30	-	-	-	-	-	-	-	-		
	20		30		+0.008	35	8	-	20	25	30	35	40	40	40	40	40	40	40	40	-			
	25	+0.020	35	+0.020		40		-	-	20	25	30	35	40	50	50	50	50	50	50	50	-		
	30		+0.007		42	+0.009	47			25	30	35	40	50	60	60	60	60	60	60	60	60	-	
	35	+0.025	48	+0.009	54		10	-	-	-	-	-	40	50	60	70	70	70	70	70	70	70	-	
	40		+0.009		55	+0.024		60	-	-	-	-	-	40	50	60	70	80	-	80	-	80	80	-
	50	+0.029 +0.010	70	+0.011	75		12	-	-	-	-	-	-	-	60	70	80	-	100	-	100	100	100	
	60		80		86	-		-	-	-	-	-	-	-	-	-	-	80	-	100	-	120	-	120

Oil Free Guide Bushes ปลอกนำไม้น้ำมันไม่มีบา (GBSDZ)



Code	GBSDZ
Material	Brass with graphite

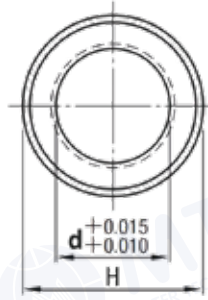
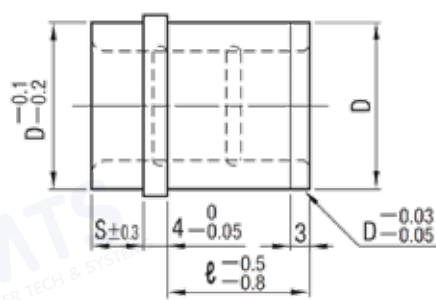
Order Code d x L
GBSDZ 25 x 100



Code	dG6		Dm5		t																	
						L15	L20	L25	L30	L35	L40	L50	L60	L70	L80	L100	L120					
GBSDZ	8	+0.014	12	+0.015 +0.007	6	15	-															
	10	+0.005	14			15	20	-														
	12	+0.017 +0.006	18			15	20	25		-		-										
	13		20	15		20	25	25				-	-									
	16		25	15		20	25	30	35					-								
	20	+0.020 +0.007	30	15		20	25	30	35	40	40					-	-					
	25		35	15	20	25	30	35	40	50												
	30		42		20	25	30	35	40	50	60	60										
	35	+0.025 +0.009	48	8 ⎧ L = 15 → t = 6	-	-	-	25	30	35	40	50	60	70	80	100						
	40		55							30	-	40	50	60				70	80			
	50		70									40	50	60				70	80			
	60	+0.029 +0.010	80					+0.011				-	-	-				50	60	-	80	100

Ejector Guide Bushes

ปลอกนำอีเจ็คเตอร์ (EGBH)

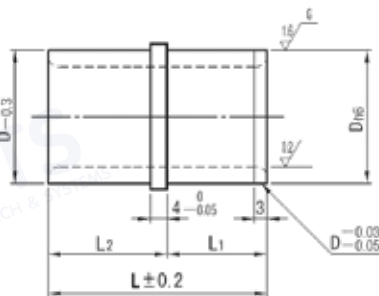


Code	EGBH
Material	SUJ2
Hardness	58 HRC ~

Order Code d x ℓ
EGBH 25 x 15

Code	d	S	H	Dh6	ℓ
EGBH	10	8	21	18	0 -0.011
	12	10	23	20	0 -0.013
	13	10	25	22	0 -0.013
	16	10	28	25	0 -0.016
	20	10	33	30	0 -0.016
	25	10	38	35	0 -0.016
	30	15	43	40	0 -0.019
	35	20	48	45	0 -0.019
	40	20	55	52	0 -0.019
	50	20	65	62	0 -0.019
					10 13 15 20
					10 13
					10 13 15 20 25
					10 13 15 20 25
					10 13 15 20 25 30
					13 15 20 25 30
					13 15 20 25 30
					20 25 30
					20 25 30
					25 30

Ejector Guide Bushes ปลอกนำอีเจ็คเตอร์ (EGB)



Code	EGB
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
EGB 30 x 42

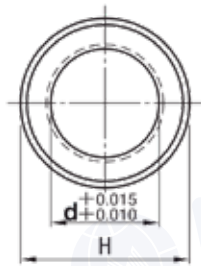
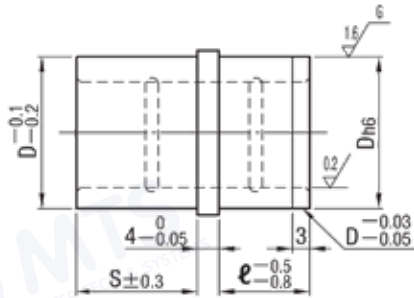
Code	d		L	Dh6		H	L1	L2	
EGB	10	+0.014 +0.005	23	16	0 -0.011	20	12	11	
	12	+0.017 +0.006	25	18		22	12	13	
			32		14		18		
	16		25	25	0 -0.013	30	12	13	
			32				14	18	
			42				19	23	
	20		25	30	0 -0.013	35	12	13	
		32	14				18		
		42	19				23		
		52	24				28		
	25	+0.020 +0.007	25	35	0 -0.016	40	12	13	
			32				14	18	
			42				19	23	
			52				24	28	
	30		32	40	0 -0.016	45	14	18	
			42				19	23	
			52				24	28	
	40		+0.025 +0.009	42	50	0 -0.019	55	19	23
	52			24				28	
	50			52	60	0 -0.019	66	24	28

Ejector Guide Bushes

ปลอกนำอ็เจกเตอร์ (EGBN)

A

Standard Components
for Plastic Mold



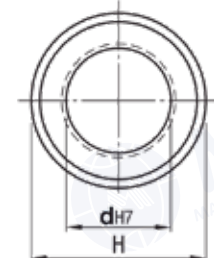
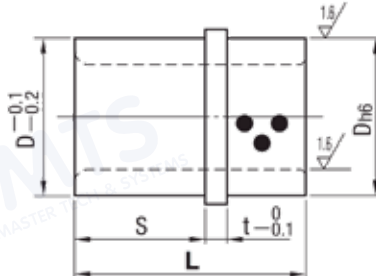
Code	EGBN
Material	SUJ2
Hardness	58 HRC ~

Order d x ℓ
25 x 20

Code	d	Dh6	H	S	ℓ
EGBN	13	22	0	25	10 15 20
	16	25	-0.013	28	10 15 20
	20	30		33	10 15 20 25
	25	35	0	38	10 15 20 25
	30	40	-0.016	43	20 25 30
	35	45		48	20 25 30
	40	52	0	55	20 25 30
	50	62	-0.019	65	20 25 30

Oil Free Ejector Guide Bushes

ปลอกนำอ็เจกเตอร์ไม่ใช้น้ำมัน (EGBZ)

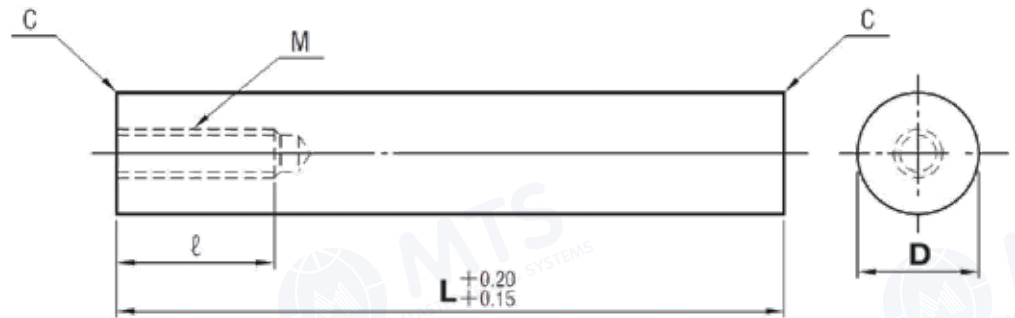


Code	EGBZ
Material	Brass with graphite

Order Code d x L
EGBZ 25 x 38

Code	dh7	Dh6	H	S	L	t
EGBZ	13	+0.018	22	0	25	4
	16	0	25	-0.013	25	
	20	30	33	14	33	
				19	25	
				24	38	
				29	43	
	25	35	38	14	25	
				19	33	
				24	38	
				29	43 53	
	30	40	43	19	33	
				24	38	
				29	43	
				34	53	
	35	45	48	24	38	
				29	43	
				34	53	
				39	68	
EGBZ	40	55	61	24	43	8
				29	53	
				34	68	
				39	83	
EGBZ	50	65	71	24	43	8
				29	53	

Ejector Guide Pins อีเจ็คเตอร์ไกด์พิน (EGH)

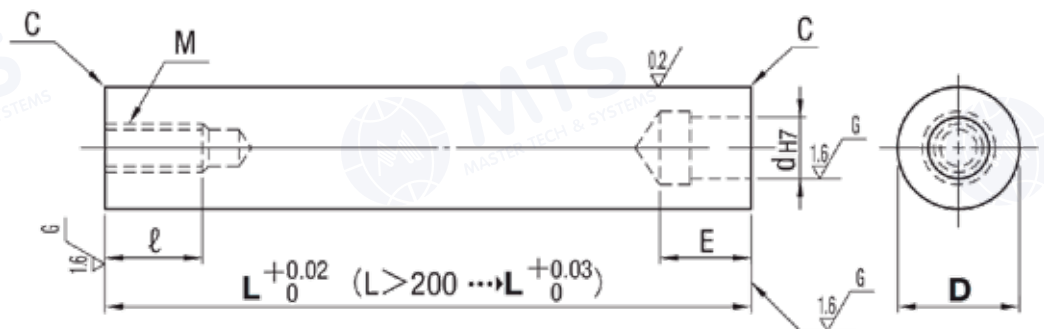


Code	EGH
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
EGH 25 x 100

Code	D		M x P	l	L
EGH	12	-0.020 -0.025	M6 x 1.0	12	40 - 100
	13				40 - 150
	16				40 - 150
	20	-0.025 -0.030	M8 x 1.25	16	40 - 175
	25				50 - 250
	30		M10 x 1.5	20	50 - 300
	35				50 - 300
	40				50 - 350
	50				50 - 350

Ejector Guide Pins อีเจ็คเตอร์ไกด์พิน (EGHC)



Code	EGHC
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
EGHC 25 x 100

Code	D		M x P	ℓ	dH7		E	Dowel pins	L
EGHC	12	-0.020	M6 x 1.0	12	6	+0.012 0	15	MSTH 6-30	40 - 100
	13	-0.025							40 - 150
	16	40 - 150							
	20	-0.025 -0.030	M8 x 1.25	16	8	+0.015 0	20	MSTH 8-40	50 - 175
	25				10			MSTH 10-40	50 - 250
	30		M10 x 1.5	20	13	+0.018 0	25	MSTH 13-50	50 - 300
	35				16			MSTH 16-50	50 - 300
	40								50 - 350
	50								50 - 350

Ejector Guide Pins อีเจกเตอร์ไกด์พิน (EGPP)

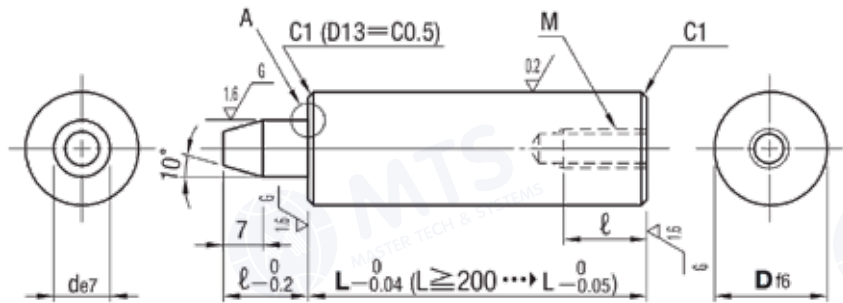
A

Standard Components
for Plastic Mold



Code	EGPP
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
EGPP 25 x 100



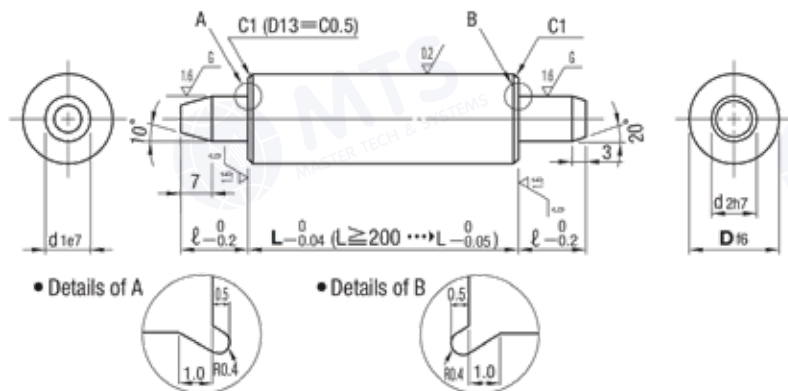
Code	Df6		de7		ℓ	L	M x P
EGPP	13	-0.016	8	-0.025	12	40 - 150	M6 x 1.0
	16	-0.027	10		15	50 - 150	
	20	-0.020		50 - 150		M8 x 1.25	
	25	-0.033		50 - 150			
	30	-0.033	20	-0.040	20	50 - 300	M10 x 1.5
	35	-0.025				50 - 300	
	40	-0.041				-0.061	

Ejector Guide Pins อีเจกเตอร์ไกด์พิน (EGPD)



Code	EGPD
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
EGPD 25 x 100



Code	Df6		d1e7		d2h7		ℓ	L	
EGPD	13	-0.016	8	-0.025	8	0	12	40 - 150	
	16	-0.027	10		10		-0.015	15	50 - 150
	20	-0.020		50 - 150					
	25	-0.033	20	-0.040	20	0	-0.021	20	50 - 150
	30								50 - 300
	35	-0.025							50 - 300
	40	-0.041							90 - 300
	50		90 - 300						

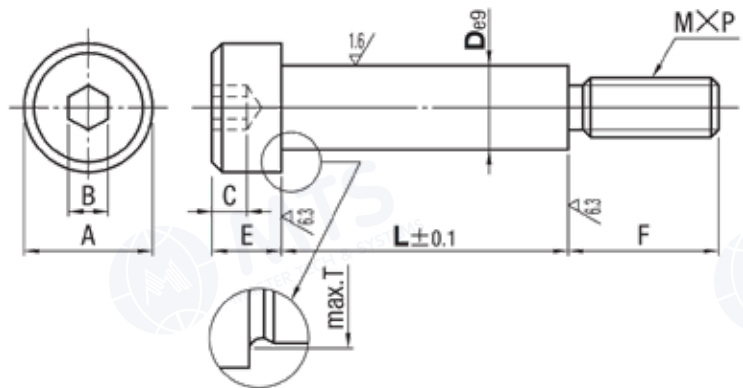
Bolts For Ejector Plate

สลักสำหรับชุดแผ่นเพลกเข็มกระทุ้ง (EPB)



Code	EPB
Material	SCM435
Hardness	30 - 35HRC
Surface	Black Oxide, head only

Order Code D x L
EPB 16 x 81



D	A	B	C	E	F	M x P	T
10	-0.025 -0.061	16	6	4	8	M8 x 1.25	10.8
13	-0.032	18	8	5	10	M10 x 1.5	14
16	-0.075	24	10	7	14	M12 x 1.75	17
20	-0.040	27	14	9	18	M16 x 2.0	21
25	-0.092	33	17	11	19	M20 x 2.5	26

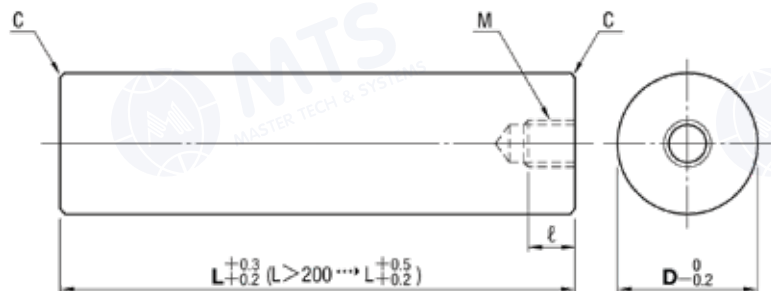
Code	D	L
EPB	10	31 36 41 46 51 56 61
	13	31 36 41 46 51 56 61 66 71
	16	51 56 61 66 71 76 81 91 101 111 121 131
	20	61 66 71 76 81 91 101 111 121 131 141
	25	121 131 141 151 161

Support Pillars เสาชัพพอร์ท (SPL)



Code	SPL
Material	S45C
Surface	Black Oxide

Order Code D x L
SPL 25 x 100



Code	D	L		C	M x P	ℓ
		5mm increments	10mm increments			
SPL	12	40 - 55	60 - 100	0.3	M6 x 1.0	12
	14	40 - 55	60 - 120			
	16	40 - 55	60 - 120			
	18	40 - 55	60 - 120			
	20	45 - 55	60 - 150			
	25	45 - 55	60 - 150	0.5	M8 x 1.25	16
	30		50 - 300			
	35		50 - 300			
	40		50 - 300			
	45		50 - 200			
	50		50 - 400	0.8	M12 x 1.75	24
	55		50 - 200			
	60		70 - 400			
	80		70 - 400			
	100		100 - 200			
	120		100 - 200	1.2	M16 x 2.0	32

Support Pins ซัพพอร์ทพิน (SPP)

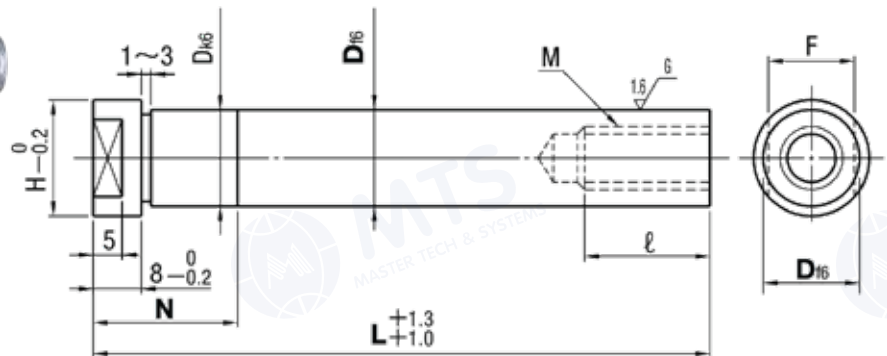
A

Standard Components
for Plastic Mold



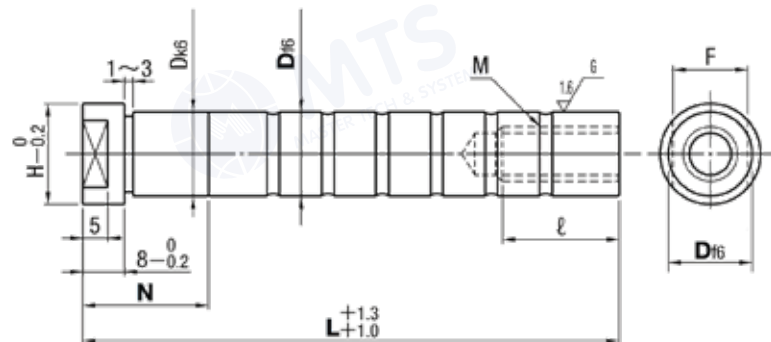
Code	SPP
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
SPP 25 x 200 x N30



Code	Df6		Dk6		F	H	M x P	ℓ	L	N
SPP	13	-0.016	13	+0.012	12	16	M6 x 1.0	12	60 - 120	8 - 60
	16	-0.027	16	+0.001	14	19	M10 x 1.5	20	80 - 210	
	20	-0.020 -0.033 -0.025 -0.041	20	+0.015	19	23	M12 x 1.75	24	90 - 300	
	25		25	+0.002	22	28	M16 x 2.0	32	100 - 300	
	30		30	29	35	150 - 350				
	35		35	+0.018	32	40			150 - 350	
	40		40	+0.002	36	45			150 - 350	

Support Pins ซัพพอร์ทพิน (SPP-OC)



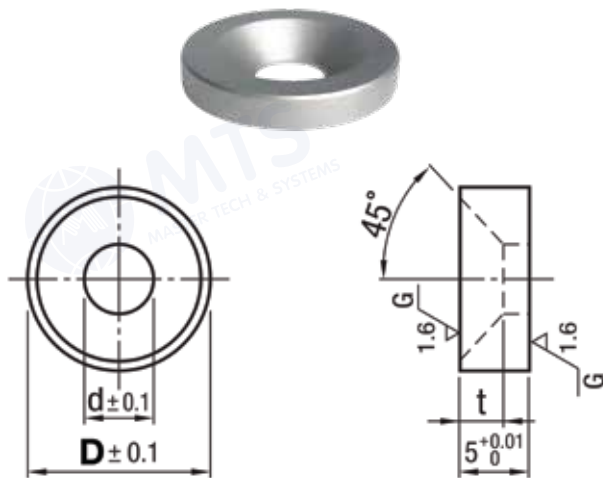
Code	SPP-OC
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L x N
SPP-OC 25 x 200 x N40

Code	Df6		Dk6		F	H	M x P	ℓ	L	N
SPP-OC	13	-0.016	13	+0.012	12	16	M6 x 1.0	12	60 - 120	8 - 30
	16	-0.027	16	+0.001	14	19	M10 x 1.5	20	80 - 210	
	20	-0.020	20	+0.015	19	23	M12 x 1.75	24	90 - 300	
	25	-0.033	25	+0.002	22	28	M16 x 2.0	32	100 - 300	8 - 40
	30		29		35	150 - 350			8 - 50	
	35	-0.025	35	+0.018	32	40				150 - 350
	40	-0.041	40	+0.002	36	45			150 - 350	8 - 60

Stop Ring / Stop Pin แหวนสต๊อป (STR) / สต๊อปพิน (STPN)

STR

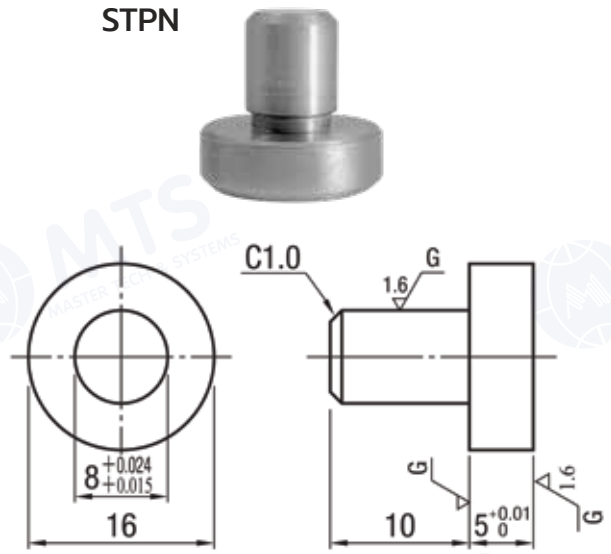


Code	D	d	t
STR	16	5.5	3
	20	6.5	3.5
	25	8.5	4.5

Code	STR
Material	S45C

Order Code D
STR 25

STPN

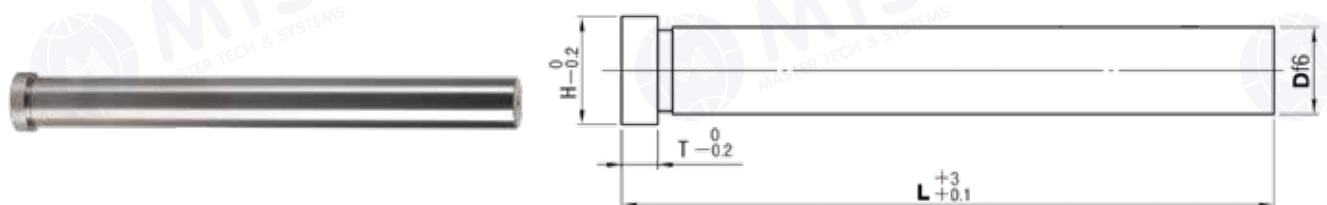


Code
STPN

Code	STPN
Material	S45C

Order Code
STPN

Return Pins เข็มกระทุ้งกลับ (RPH / RP8TH)



Code	Material	Hardness
RPH	S45C	58 HRC ~
RP8TH	SUJ2	58 HRC ~

Order Code D x L
RPH 25 x 200

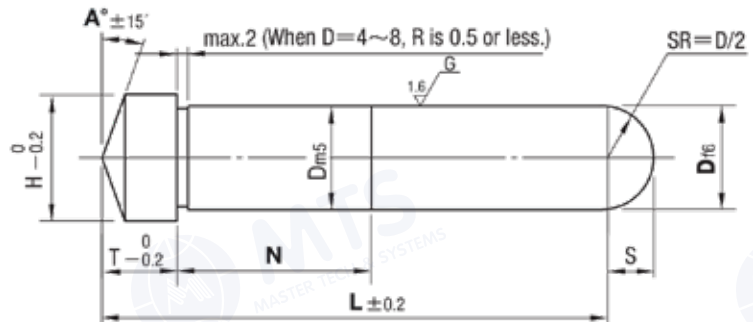
Code	Df6		H	T	L									
RPH RP8TH	12	-0.016	17	8	60	80	100	150	200					
	15		20		100	150	175	200	250	300	350	450		
	16		21		100	150	175	200	250	300	350	450		
	20	-0.020	25		100	150	200	250	300	350	450	500		
	25		30		100	150	200	250	300	350	450	500	550	
	30	-0.033	35		100	150	200	250	300	350	450	500	550	
	35	-0.025	40		150	200	250	300	350	450	500	550		
	40		45		200	250	300	350	450	500	550			
	50		-0.041		55	200	250	300	350	450	500	550		

Angular Pins แองกูล่าพิน (AP)



Code	Dia	Material	Hardness
AP	8	SKD11	60 - 63 HRC
	10 - 50	SUJ2	58 HRC ~

Order Code D x L x N x A
AP 25 x 200 x N30 x A15



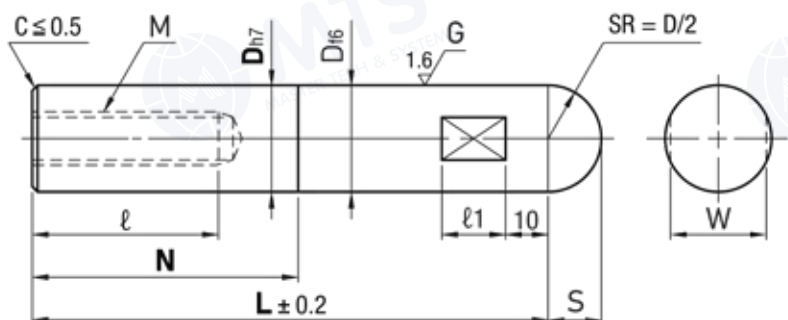
Code	D	m5	f6	T	H	S	L	N	A
AP	8	+0.012	-0.013	5	11	4	15 - 130	กำหนดตามแบบลูกค้า	0 - 30
	10	+0.006	-0.022	10	13	5	20 - 200		
	12	+0.015	-0.016		15	6	20 - 250		
	13				16	6.5	20 - 250		
	15	+0.007	-0.027	13	18	7.5	20 - 250		
	16				19	8	20 - 250		
	20	+0.017	-0.020		23	10	40 - 350		
	25			28	40 - 400				
	30	+0.008	-0.033	35	60 - 500				
	35			40	100 - 500				
	40	+0.020	-0.025	45	100 - 500				
	50			+0.009	-0.041		20		

Angular Pins แองกูล่าพิน (APU)



Code	APU
Material	SUJ2
Hardness	58 HRC ~

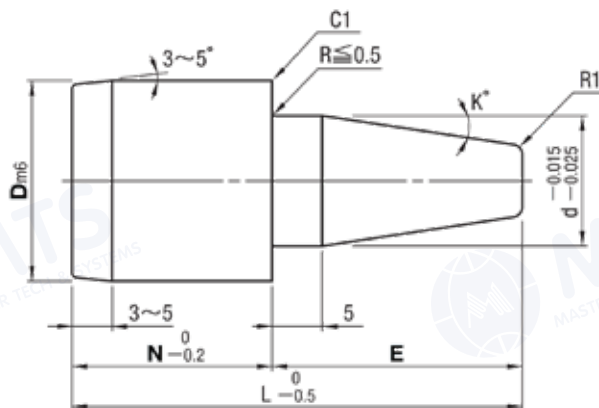
Order Code D x L x N
APU 25 x 200 x N50



Code	D	h7	f6	M	ℓ	S	ℓ1	W	L	N
APU	10	0 -0.015	-0.013 -0.022	6	15	5	8	7	30 - 200	L>N≧0
	12	0 -0.018	-0.016 -0.027			8	20	6	10	
	13			6.5	10			35 - 250		
	16	10	25	8	13	45 - 250				
	20	0 -0.021	-0.020 -0.033	12	30	10	12	17	50 - 350	
	25							22	50 - 400	
	30	16	40	10	18	27	60 - 400			
	32					27	60 - 400			
	35	0 -0.025	-0.025 -0.041	20	40	15	18	32	60 - 450	
	40	36						60 - 450		

Leader Pins For Rubber Mold

สลักนำแม่พิมพ์ยาง (GMT)

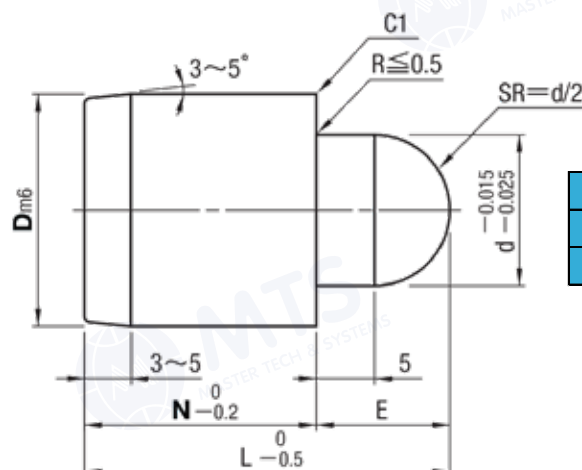


Code	GMT
Material	SCM415
Hardness	58 HRC ~

Order Code D x N x E
GMT 16 x 19 x 14

Code	Dm6		N	E	d	L	K°
GMT	16	+0.018	14	14	10	28	10
		+0.007	19	14		33	10
				19		38	6
	20	+0.021 +0.008	14	14	13	28	10
				19		33	10
				24		38	7
				29		43	6
				34		48	5
			19	14		33	10
				19		38	10
				24		43	7
				29		48	6
				34		53	5

Leader Pins For Rubber Mold สลักนำแม่พิมพ์ยาง (GMR)



Code	GMR
Material	SCM415
Hardness	58 HRC ~

Order Code D x N
GMR 16 x 19

Code	Dm6		N	d	L	E
GMR	16	+0.018 +0.007	19	10	29	10
	20	+0.021 +0.008		13	30	11

Leader Bushes For Rubber Mold

ปลอกนำแม่พิมพ์ยาง (GMB)

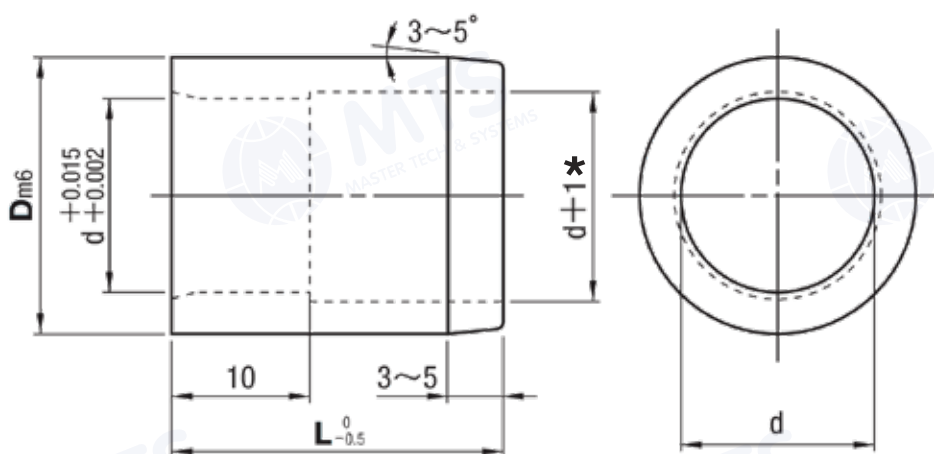
A

Standard Components
for Plastic Mold



Code	GMB
Material	SCM415
Hardness	58 HRC ~

Order Code D x L
GMB 16 x 19

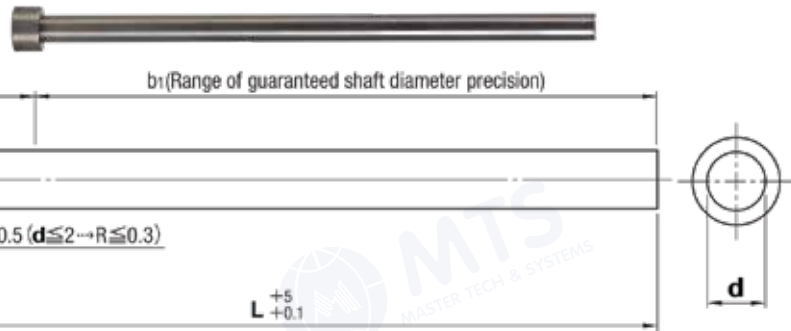


★ There is no (d+1) relief machining in the case of L=9

Code	Dm6		L	d
GMB	16	$+0.018$ $+0.007$	9	10
			14	
			19	
	20	$+0.021$ $+0.008$	9	13
			14	
			19	
			24	
			29	

Ejector Pins

เข็มกระทุ้ง SKD61 (EPN / EPJ / EPS)



Code	Head Thickness	T d	T T
EPN	4 mm (T4)		0 -0.02
EPJ	6 • 8 mm (JIS)	-0.01 -0.02	0 -0.05
EPS	Special		0 -0.02

Code	EPN / EPJ / EPS
Material	SKD61
Hardness	40 - 45 HRC / 900 HV ~

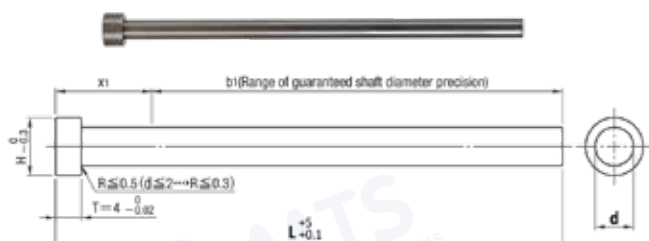
Order Code d x L
EPN 2 x 100

Code	EPN		EPJ		d	L
	4mm Head		JIS Head			
	H	T	H	T		
EPN	3	4	-	-	1	100 150 200 250
					1.1 1.2 1.3 1.4	100 150 200
					1.5	100 150 200 250
					1.6 1.7 1.8 1.9	100 150 200 250 300
					2	100 150 200 250 300 350 400
					2.1 2.2 2.3 2.4	100 150 200 250 300
	4	4	-	-	2.5	100 150 200 250 300 350 400
					2.6 2.7 2.8 2.9	100 150 200 250 300
					3	100 150 200 250 300 350 400 450 500
	5	4	-	-	3.1 3.2 3.3 3.4	100 150 200 250 300 350 400
					3.5	100 150 200 250 300 350 400 450 500
					3.6 3.7 3.8 3.9	100 150 200 250 300 350 400
	6	4	-	-	4	100 150 200 250 300 350 400 450 500 550 600 650 700
					4.1 4.2 4.3 4.4	100 150 200 250 300 350 400
					4.5	100 150 200 250 300 350 400 450 500 550 600 650 700
	7	4	-	-	4.6 4.7 4.8 4.9	100 150 200 250 300 350 400
					5	100 150 200 250 300 350 400 450 500 550 600 650 700
					5.1 5.2 5.3 5.4	100 150 200 250 300 350 400
	8	4	8	6	5.5	100 150 200 250 300 350 400 450 500 550 600 650 700
					5.6 5.7 5.8 5.9	100 150 200 250 300 350 400
					6	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	9	4	9	6	6.1 6.2 6.3 6.4	100 150 200 250 300 350 400
					6.5	100 150 200 250 300 350 400 450 500 550 600 650 700
					7	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	10	4	10	6	8	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					9	100 150 200 250 300 350 400 450 500 550 600
					10	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	11	4	11	6	11	100 150 200 250 300 350 400 450 500 550 600
					12	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					13	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	12	4	12	6	14	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					15	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					16	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	13	4	13	6	17	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					18	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					19	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	14	4	14	6	20	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					21	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					22	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
	15	4	15	6	23	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					24	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800
					25	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
	16	4	16	6	26	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
					27	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
					28	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
	17	4	17	6	29	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
					30	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000
					31	100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 900 1000

Code	EPS		d	L
	Special Head			
	H	T		
EPS	4	6	1	100 150 200 250
			1.1 1.2 1.3 1.4	100 150 200
			1.5	100 150 200 250
			1.6 1.7 1.8 1.9	100 150 200 250 300
			2	100 150 200 250 300 350 400
	5	6	2.1 2.2 2.3 2.4	100 150 200 250 300
			2.5	100 150 200 250 300 350 400
	6	6		

Ejector Pins

เข็มกระทุ้ง SKH51 (EPH / EPHE-B / EPHS)



Code	Head thickness	T d
EPH	4mm (T4)	0
EPHE-B		-0.005
		-0.01
		-0.02
EPHS	Special	0
		-0.005

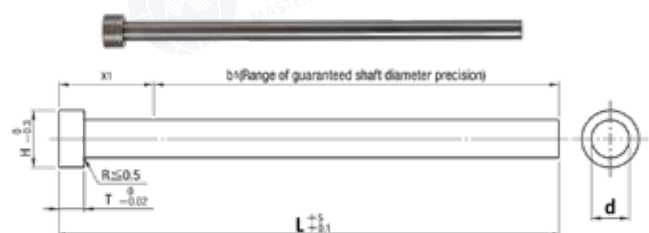
Code	EPH / EPHE-B / EPHS
Material	SKH51
Hardness	58 - 60 HRC

Order Code d x L
EPHJ 4 x 200

Code	H	T	d	L
EPH EPHE-B	3	4	0.8 0.9	100 150
			1 1.1 1.2 1.3 1.4	100 150 200
			1.5	100 150 200 250
	4		1.6 1.7 1.8 1.9	100 150 200 250
	2		100 150 200 250 300	
	5		2.1 2.2 2.3 2.4	100 150 200 250
	2.5		100 150 200 250 300	
	6		2.6 2.7 2.8 2.9	100 150 200 250
	3		100 150 200 250 300 350	
	7		3.1 3.2 3.3 3.4	100 150 200 250
			3.5	100 150 200 250 300 350
			3.6 3.7 3.8 3.9	100 150 200 250
			4	100 150 200 250 300 350

Code	H	T	d	L
EPHS	4	4	1	100 150 200
	6		2	100 150 200 250
			2.5	100 150 200 250

Ejector Pins เข็มกระทุ้ง SKH51 (EPHJ / EPHJE / EPHJS)



Code	Head thickness	T d
EPHJ	6・8mm (JIS)	0
EPHJE		-0.005
		-0.01
		-0.02

Code	EPHJ / EPHJE
Material	SKH51
Hardness	58 - 60 HRC

Order Code d x L
EPHJ 4 x 200

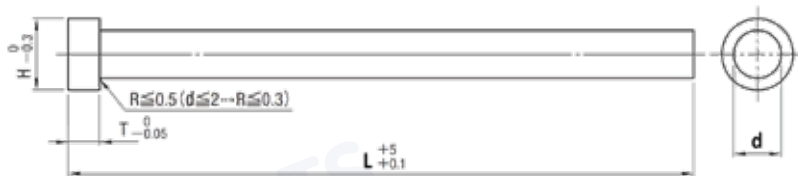
Code	H	T	d	L
EPHJ EPHJE	8	6	4	100 150 200 250 300
			4.5	100 150 200 250 300
	9		5	100 150 200 250 300 350
			5.5	100 150 200 250 300 350
	10		6	100 150 200 250 300 350
	11		6.5	100 150 200 250 300 350
			7	100 150 200 250 300 350
	13	8	8	100 150 200 250 300 350
	14		9	100 150 200 250 300 350
	15		10	100 150 200 250 300 350
	17		12	100 150 200 250 300 350

Ejector Pins

เข็มกระทุ้ง SCM (EPCM)



Code	EPCM
Material	SACM 645
Inside Hardness	HRC 30 ± 2
Outside Hardness	HV 900 - 1100



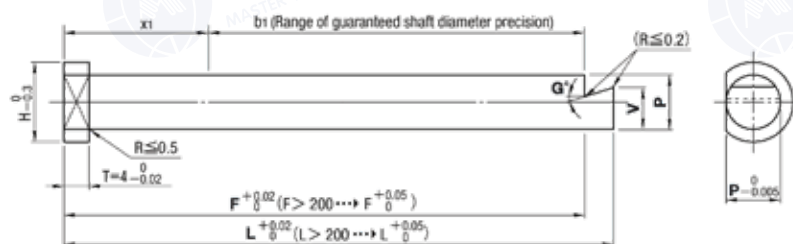
Order Code d x L
EPCM 1.5 x 150

Code	d	H	T	L
EPCM	1	3	4	100 150 200 250
	1.5	4		100 150 200 250
	2	5		100 150 200 250
	2.5	6		100 150 200 250
	3			100 150 200 250 300 350 400
	3.5	7		100 150 200 250 300 350 400
	4	8	6	100 150 200 250 300 350 400
	4.5			100 150 200 250 300 350 400
	5	9		100 150 200 250 300 350 400
	5.5			100 150 200 250 300 350 400
	6	10		100 150 200 250 300 350 400 500
	7	11		100 150 200 250 300 350 400 500
	8	13	8	100 150 200 250 300 350 400 500 600
	10	15		100 150 200 250 300 350 400 500 600
	12	17		100 150 200 250 300 350 400 500 600
	14	19		100 150 200 250 300 350 400 500 600
15	20	100 150 200 250 300 350 400 500 600		
16	21	100 150 200 250 300 350 400 500 600		

Ejector Pins เข็มกระทุ้ง (Z-EPH-L)



Code	Z-EPH-L
Material	SKH51
Hardness	58 - 60 HRC



Order Code P x L x V x G x F
Z-EPH-L 5 x 200.00 x V2.0 x G5 x F195.00

Code	Head thickness	T P	T G	T V
Z-EPH-L	4mm (T4)	0 -0.005	± 30'	± 0.05

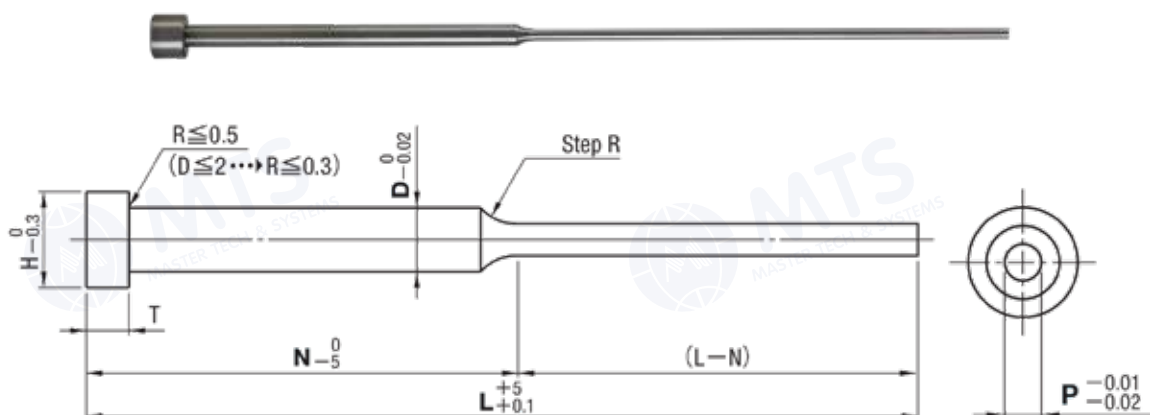
Code	H	T	P	L 0.01mm increments	V 0.5mm increments	G° 1° increments	F 0.01mm increments
Z-EPH-L	4	4	2	50.00 - 300.00	1.5 ≤ V < P	0 - 45	L - F ≤ 10
	5		2.5				
	6		3				
	7		4				
	8		5	50.00 - 350.00			
	9		6				
	10		7				
	11		8				

Step Ejector Pins

เข็มกระทุ้งสองตอน (ENS / EJS)

A

Standard Components
for Plastic Mold



Code	Head thickness	T
ENS	4mm (T4)	0 -0.02
EJS	6mm (JIS)	0 -0.05

Code	ENS / EJS
Material	SKD61
Hardness	40 - 45 HRC / 900 HV ~

Order Code D x L x P x N
ENS 2 x 200 x P1.0 x N100

Code	D	H	T	L	P	N
ENS	1.5	3	4	100	0.8 1.0	40 50 60 70
				150	0.8 1.0	40 50 60 70
				100	0.8 1.0 1.2 1.5	40 50 60 70
	2	4		150	0.8 1.0 1.2 1.5	40 50 60 70 80 90 100
				200	0.8 1.0 1.2 1.5	50 60 70 80 90 100 120
				100	1.0 1.2 1.5 1.8 2.0	50 60 70
	2.5	5		150	1.0 1.2 1.5 1.8 2.0	50 60 70
				200	1.0 1.2 1.5 1.8 2.0	50 60 70 80 90 100 120
				100	1.5 1.8 2.0 2.5	50 60 70
	3	6		150	1.5 1.8 2.0 2.5	50 60 70
				200	1.5 1.8 2.0 2.5	50 60 70 80 90 100 120
EJS	4	8	6	150	1.5 2.0 2.5 3.0	50 70
				200		50 70 100 120
				250		100 120
	5	9		150	3.0 3.5 4.0	50 70
				200		50 70 100 120
				250		100 120
	6	10		150	4.0	50 70
				200		50 70 100 120
				250		100 120

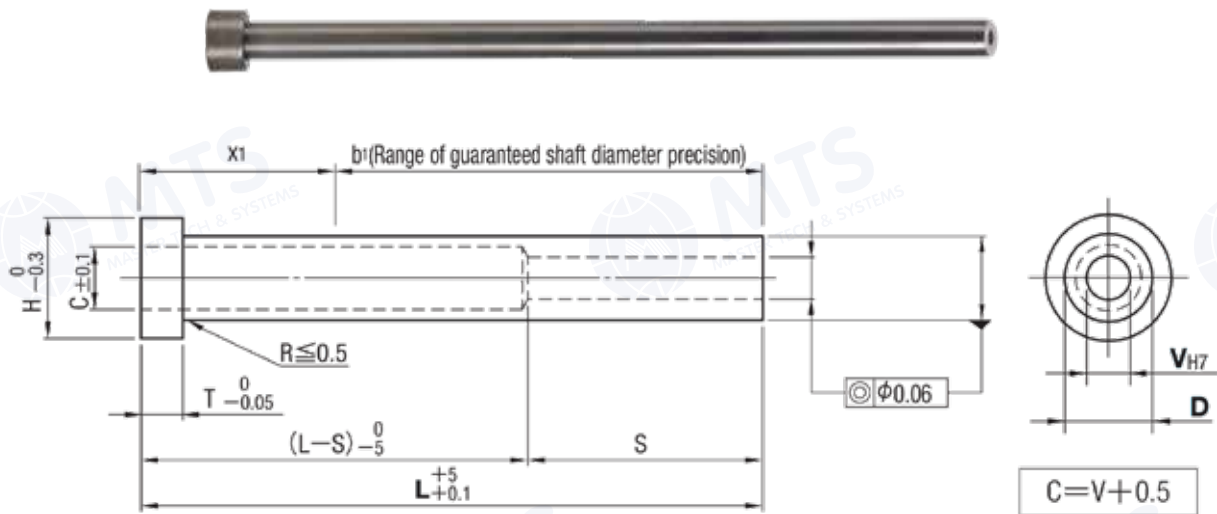
หมายเหตุ ลูกค้าสามารถสั่งทำขนาดอื่นๆ นอกเหนือจากในตารางได้

Sleeve Ejector Pins

ปลอกกระทุ้ง (ESJ)

A

Standard Components
for Plastic Mold



Code	ESJ
Material	SKD61
Hardness	35 - 40 HRC / 900 HV ~

Order Code D x L x V
ESJ 6 x 100 x V4

⏏ D

D ≤ 12	D ≥ 15
-0.01	-0.01
-0.02	-0.03

⏏ V

V ≤ 3	3.5 ≤ V ≤ 6	6.5 ≤ V ≤ 10	V ≥ 12
+0.010	+0.012	+0.015	+0.018
0	0	0	0

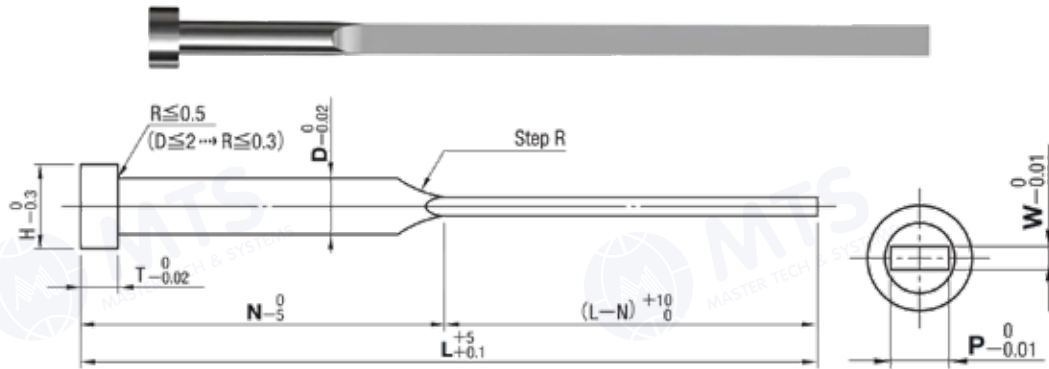
Code	D	H	T	L	V
ESJ	4	8	6	100 120 140	1.5
				100 120 140 160 180 200	2 2.5
	4.5			100 120 140	1.5
				100 120 140 160 180 200	2 2.5
	5			100 120 140 160 180 200 225	2 2.5 3
				250 275 300	3
	5.5			100 120 140 160 180 200 225	2 2.5 3
				250 275 300	3
	6	10		100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4
				325 350 375 400 425 450	3 3.5
	6.5			100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4
				325 350 375 400 425 450	3 3.5 4
	7	11		100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4 4.5
				325 350 375 400 425 450	3 3.5 4 4.5
	7.5	12		100 120 140 160 180 200 225 250 275 300	3 3.5 4 4.5
				325 350 375	3.5 4 4.5
	8	13	8	100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4 4.5 5 5.5
				325 350 375 400 425 450	3 3.5 4 4.5 5
				475 500	5
	9	14		100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4 4.5 5 5.5
				325 350 375 400 425 450	3 3.5 4 4.5 5
				475 500	5 5.5 6
	10	15		100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450	4 4.5 5 6 6.5 7
				475 500	5 5.5 6 6.5 7
	12	17		100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450	4 4.5 5 5.5 6 6.5 7 8 8.5
				475 500	5 5.5 6 6.5 7 8
	15	20		200 225 250 275 300 325 350 375 400 425 450 475 500	9 10
	20	25		200 225 250 275 300 325 350 375 400 425 450 475 500	12 15

L	100	120	140	160	180	200	225	250	275	300	325	350	375	400	425	450	475	500
S	50 (V1.5 → 40)					75			100			115			150			

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Flat Ejector Pins

เข็มกระทุ้งแบบ SKH51 (ERPH / ERJ)



Code	Head thickness	P, W
ERPH	4mm (T4)	0
ERJ	6 • 8mm (JIS)	-0.01

Code	ERPH / ERJ
Material	SKH51
Hardness	58 - 60 HRC

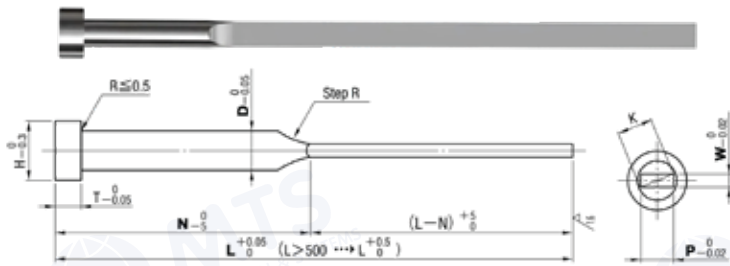
Order Code D x L x P x W x N
ERPH 2 x 150 x P1.0 x W0.8 x N50

Code		D	4mm head		JIS head		L	P	W	N							
4mm head	JIS head		H	T	H	T											
ERPH	-	1.5	3	4	-	-	100	0.8 1.0 1.2	0.3 0.4 0.5 0.6	40 50 60 70 80							
			150														
			100														
		2	4				150	1.0 1.2 1.5	0.4 0.5 0.6 0.7 0.8 1.0	40 50 60 70 80							
			200														
			100														
		2.5	5				150	1.5 2.0	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5	40 50 60 70 80 90 100							
			200														
			100														
		3	6				150	2.0 2.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5 2.0	40 50 60 70 80 90 100 120							
			200														
			100														
	3.5	7	150	2.5 3.0	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5 2.0	40 50 60 70 80 90 100 120											
			200														
			250														
	ERJ	4	8	6	100	3.0 3.5	0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0	40 50 60 70 80 90 100 120									
					150												
					200												
					250												
					100												
		4.5			8	150	3.5 4.0	0.6 0.7 0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120								
						200											
						250											
		5			9	100	4.0	0.6 0.7 0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120								
		150															
		200															
5.5		9			250	4.5 5.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120									
	100																
	150																
6	10	200	5.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120												
		250															
6.5	10	150	6.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0	40 50 60 70 80 90 100 120												
		200															
		250															
7	10	150	6.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120 150 180 200												
		200															
		250															
8	11	300	6.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120 150 180 200												
		150															
		200															
-	-	-	-	17	8	150	8.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120 150 180 200								
										200							
										250							
										300							
										150							
						10				15	200	10.0	1.2 1.5 1.8 2.0 2.5	40 50 60 70 80 90 100 120 150 180 200			
											250						
											300						
											150						
											200						
											250						
											300						

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Flat Ejector Pins

เข็มกระทุ้งแบบ SKD61 (ERNX)



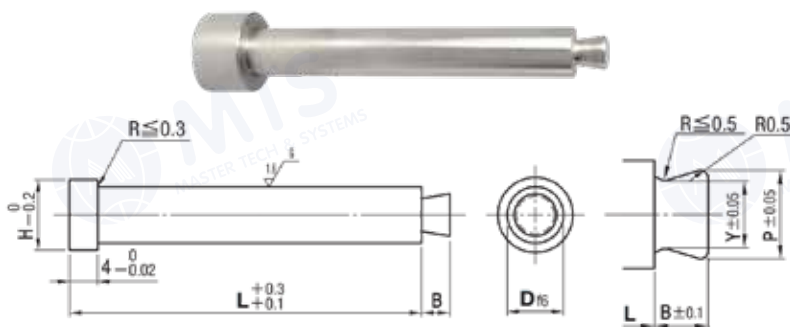
Code	ERNX
Material	SKD61
Hardness	40 - 45 HRC / 900 HV ~

Order Code D x L x P x W x N
ERNX 12 x 400 x P10.0 x W2.5 x N200

Code	D	H	T	0.01mm increments			N
				L	P	W	
ERNX	4	8	6	200.00 - 350.00	2.00 - 3.70	1.00 ~	N ≥ 40 and (L - N) ≤ 200
	5	9			2.50 - 4.70	1.00 ~	
	6	10		200.00 - 500.00	3.00 - 5.50	2.00 ~	• D6 - 8 : N ≥ 45 • D10 - 16 : N ≥ 50 • D20 - 25 : N ≥ 55 and N ≥ L/3 350 ≥ (L/N) ≥ 10
	7	11			3.30 - 6.60	2.00 ~	
	8	13			3.30 - 7.60	2.00 ~	
	10	15			5.00 - 9.60	2.00 ~	
	12	17	8	200.00 - 500.00	6.00 - 11.70	2.00 ~	
	13	18			6.00 - 12.70	2.00 ~	
	15	20		200.00 - 500.00	8.00 - 14.70	2.00 ~	
	16	21			8.00 - 15.70	2.00 ~	
	20	25			10.00 - 19.70	2.00 ~	
	25	30			13.00 - 24.70	2.50 ~	

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Runner Lock Pins สลักล็อกรับเนอร์ (RLR / RLRL)



Code	RLR / RLRL
Material	SKH51
Hardness	58 - 60 HRC

Order Code D x L
RLR 2 x 40

Code	D	H	B	P	Y	L										
RLR	2	4	2	1.5	1.0	15	20	25	30	35	40					
	3	5		2.3	1.8	15	20	25	30	35	40	45	50	60		
	4	6	2.5	2.8	2.3	20	25	30	35	40	45	50	60	70	80	
	5	7	3	3.3	2.8	20	25	30	35	40	45	50	60	70	80	
	6	8		3.8	3.0	30 35 40 45 50 60 70 80										
	8	10	4	5.8	5.0	30 35 40 45 50 60 70 80										

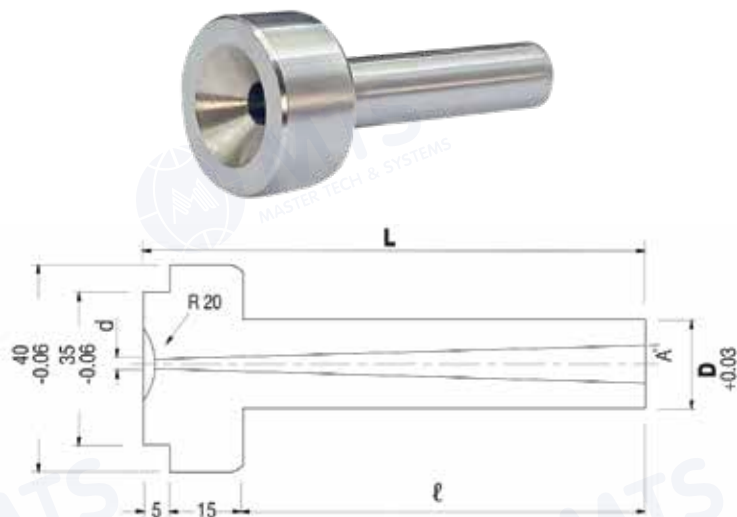
Code	D	H	B	P	Y	L 0.1 mm increments
RLRL	2	4	2	1.5	1.0	10.0 - 100.0
	2.5	5		2.0	1.5	
	3			2.3	1.8	
	4	6	2.5	2.8	2.3	15.0 - 100.0
	5	7	3	3.3	2.8	
	6	8		3.8	3.0	
	8	10	4	5.8	5.0	

Sprue Bushes

หัวฉีด (SB)

A

Standard Components
for Plastic Mold



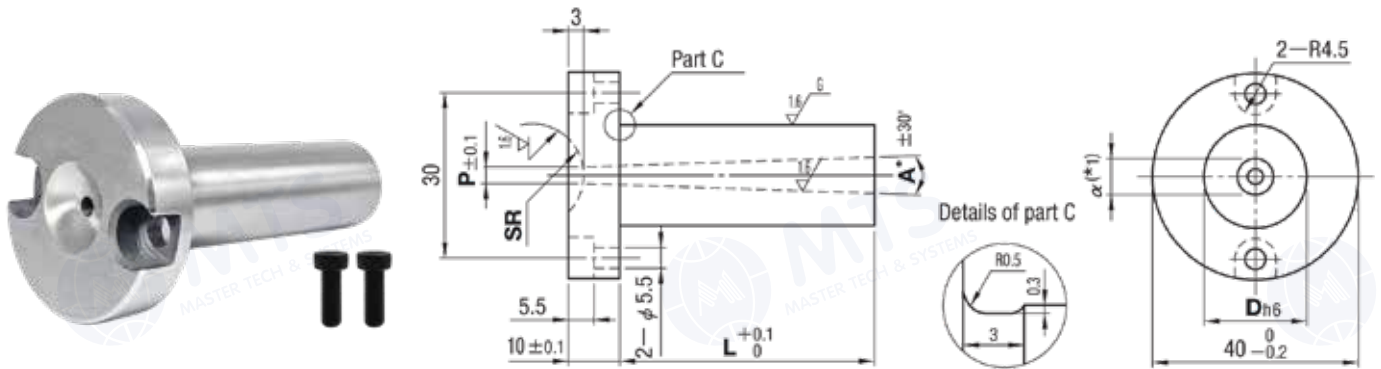
Code	SB
Material	S45C

Order Code D x L
SB 25 x 110

Code	D	L	d	A	ℓ
SB	12	50	3.3 + 0.1	6	30
		65		4	45
		80		4	60
		95	3.5 + 0.1	3	75
		110		3	90
		140		3	120
	16	50	3.3 + 0.1	6	30
		65		4	45
		80		4	60
		90		3	70
		100	3.5 + 0.1	3	80
		110		3	90
		120		3	100
		140		3	120
	20	170	3	2.3	150
		50		3	30
		65	3.3 + 0.1	4	45
		80		4	60
		95		3	70
		100	3.5 + 0.1	3	80
		110		3	90
		120		3	100
		140		3	120
		170		2.3	150
		200		2.3	180
	25	50	3	3	30
		80	3.3 + 0.1	3	60
		95		3	75
		110	3.5 + 0.1	3	90
		130		3	110
		140		3	120
		170		2.3	150
		200		2.3	180

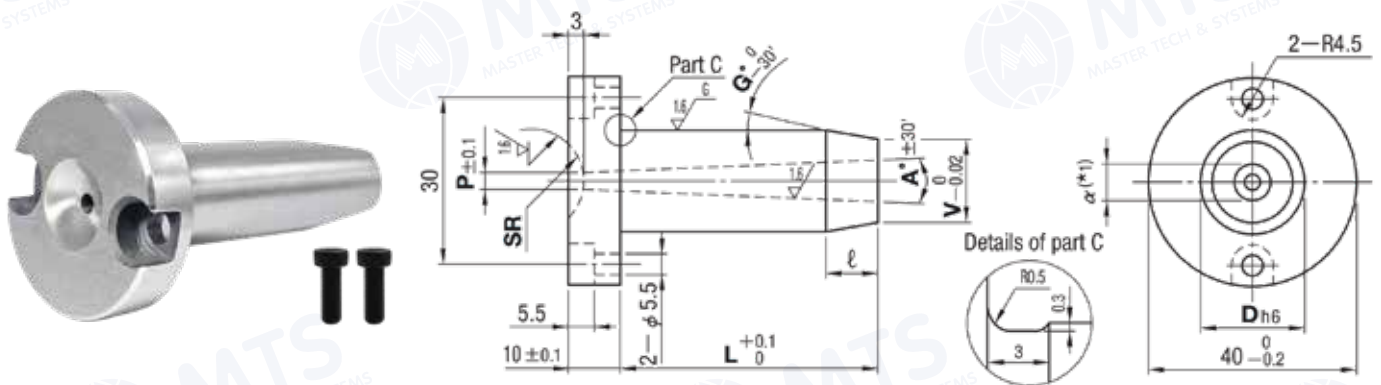
Sprue Bushes

หัวฉีด (SBBP / SBBK / SBBS / SBGP / SBGK / SBGS)



Code	Material	Hardness
SBBP	HPM1	37 - 43 HRC
SBBK	SKD61	48 - 52 HRC
SBBS	DC53	58 - 62 HRC

Order Code D x L x SR x P x A
SBBP 20 x 80.0 x SR16 x P3 x A2



Code	Material	Hardness
SBGP	HPM1	37 - 43 HRC
SBGK	SKD61	48 - 52 HRC
SBGS	DC53	58 - 62 HRC

Order Code D x L x SR x P x A x V x G
SBGP 16 x 90.0 x SR12 x P3 x A2 x V14 x G5

Code	Dh6		L	SR	P	A°	V	G°
SBBP SBBK SBBS	8	0 -0.009	0 - 80.0	0 10.5 11	2 2.5 3 3.5	0.5 - 3 (*)	D>V≥α+2	1 - 10
	10		0 - 120.0	0 10.5	2 (*) 2.5 (*) 3 (*)	0.5 - 4 (*)		
	12	0 -0.011	0 - 150.0	11	3.5 4			
13	12 13			4.5 5 5.5				
16	16			6 6.5				
20	0 -0.013	0 - 200.0	20	7 8				

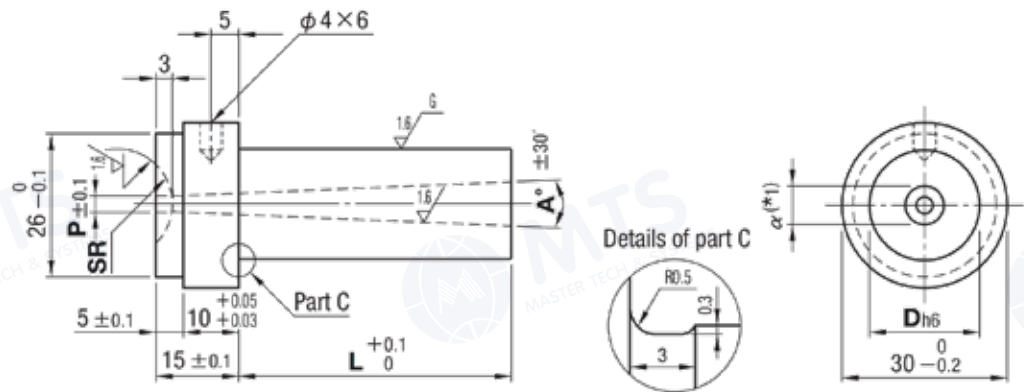
(*) L Dimension Limits

P	2			2.5			3		3.5 - 4.5	
A	0.5	1	1.5 - 4.0	0.5	1	1.5 - 4.0	0.5	1 - 1.5	0.5	1 - 1.5
L Dimension Limits	30	50	85	45	50	85	60	85	60	150

หัวข้อ (SBSM / SBSD / SBSS / SBTM / SBTD / SBTS)



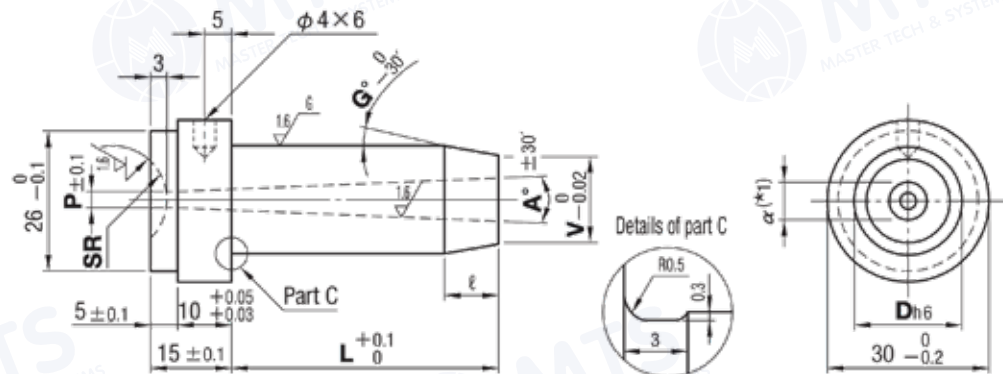
Standard Components for Plastic Mold



Code	Material	Hardness
SBSM	HPM1	37 - 43 HRC
SBSD	SKD61	48 - 52 HRC
SBSS	DC53	58 - 62 HRC

Order Code D x L x SR x P x A

SBSD 20 x 50.0 x SR20 x P4 x A2



Code	Material	Hardness
SBTM	HPM1	37 - 43 HRC
SBTD	SKD61	48 - 52 HRC
SBTS	DC53	58 - 62 HRC

Order Code D x L x SR x P x A x V x G

SBTD 25 x 60.0 x SR21 x P5 x A3 x V20.0 x G5

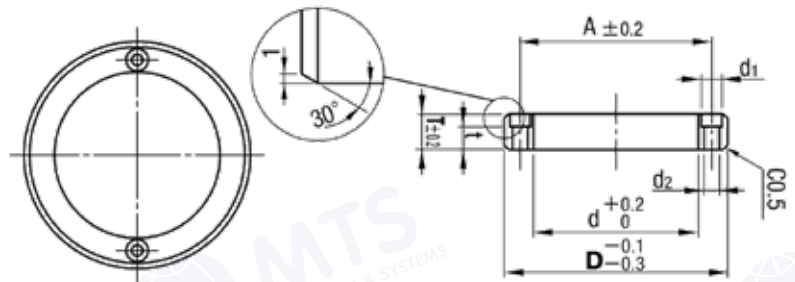
Code	D _{h6}		L	SR	P	A°	V	G°
SBSM SBSD SBSS SBTM SBTD SBTS	8	0 -0.009	0 - 80.0	0 10.5 11	2 2.5 3 3.5	0.5 - 3 (*)	D>V≥α+2	1 - 10
	10		0 - 120.0	0 10.5	2 (*) 2.5 (*) 3 (*)	0.5 - 4 (*)		
	12	0 - 150.0	11	3.5				
	13		12	4				
			13	4.5				
	16		16	5.5				
	20	0 -0.013	0 - 200.0	20	6			
	25			21 23	6.5 7 8			

(*) L Dimension Limits

P	2			2.5			3		3.5 - 4.5	
A	0.5	1	1.5 - 4.0	0.5	1	1.5 - 4.0	0.5	1 - 1.5	0.5	1 - 1.5
L Dimension Limits	30	50	85	45	50	85	60	85	60	150

Locating Rings

แควนร่องหัวฉีด (LRA / LRBS)



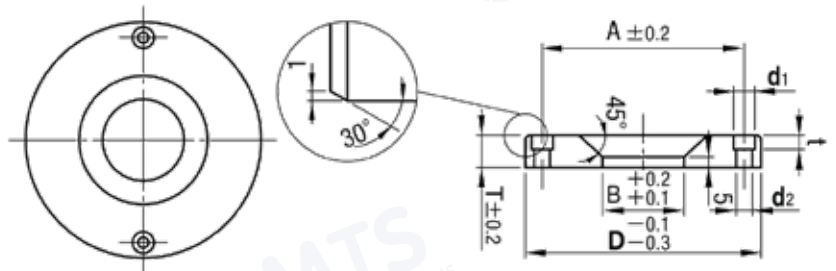
Code	LRA / LRBS
Material	S45C

Order Code D
LRA 100
D x T
LRBS 100 x 15

Code	D	d	A	d1	d2	t	T
LRA	100	70	85	11	6.5	8	15
	120	90	105				

Code	D	T				d	A	d1	d2	t	Bolts
LRBS	60	10	15	20	25	40	50	9	5.5	5	M5
	100	10				70	85	11	6.5	3	M6
		15	20	25						8	
										3	
	120	10				90	105			8	
		15	20	25							
	150	15	20	25		110	130	14	9	6	M8

Locating Rings แควนร่องหัวฉีด (LRB / LRJS)



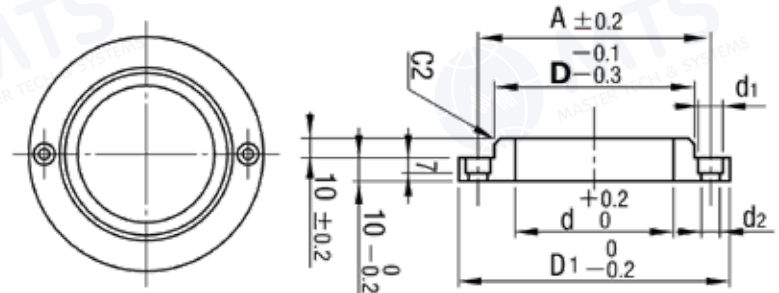
Code	LRB / LRJS
Material	S45C

Order Code D x T x B
LRB 100 x 15 x 36

Code	D	T	B	A	d1	d2	t	Bolts
LRB	100	15	36	85	11	6.5	6.5	M6
	120							

Code	D	T			B			A	d1	d2	t	Bolts
LRJS	100	15	20	25	35	40	50	85	11	6.5	6.5	M6
	120	15	20		35	40	50					
	150	15	20		35	40	50	100	14	9	8.6	M8

Locating Rings แควนร่องหัวฉีด (LRK)



Code	LRK
Material	S45C

Order Code D
LRK 100

Code	D	Applicable bolts	Bolt hole		D1	d	A
LRK	100	M 6	d2	d1	130	85	115
	120		6.5	11	150	105	135

Plain Guide Rails

ไถ้ลิส (GRS / GRSM)

A

Standard Components
for Plastic Mold

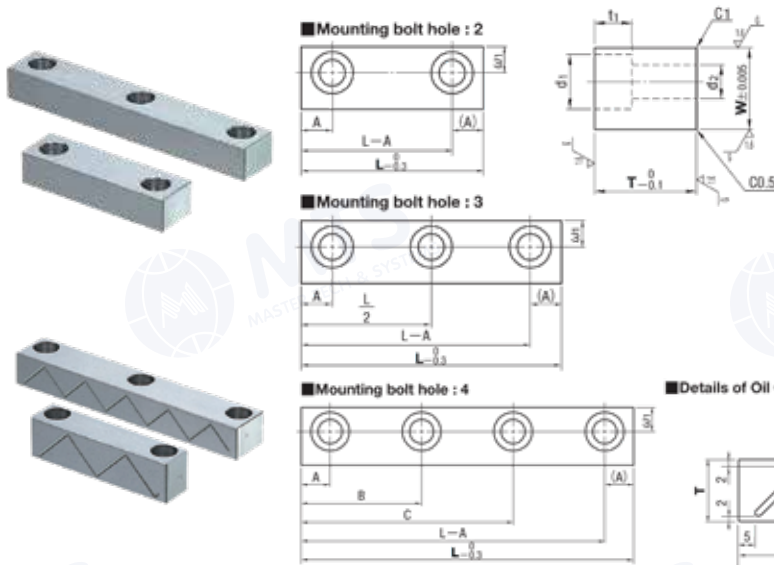


Table for Bolt Hole Size

W	T	d1	d2	t1	ω1
10	5	8	4.5	3.5	4.5
	10 15			5	
12.5	5	8	4.5	3.5	5
	10 15 20			5	
15	5	8	4.5	3.5	6
	10 15 20 25	9.5	5.5	6	
20	15 20	11	6.5	7	9
	25 30	14	9	9	
25	20 25 30 35	14	9	9	10
30	30 35	17	11.5	11	11

Oil Groove Pitch

T	P
10	8
15	18
20	28
25	38
30	48
35	58

Code	GRS (Non-oil groove) GRSM (Oil groove)
Material	SKS3
Hardness	53 - 56 HRC

Order Code W x T x L
GRS 15 x 20 x 80

Code	W	T	L	No. of bolt holes	A	B	C						
GRS (Non-oil groove)	10	(5)	30 35 40	2	7.5	-	-						
			50 60	3									
		10	35 40	2									
			50 60 70	3									
			80	4									
			90										
	15	100											
	12.5	(5)	30 35 40	2	7.5	-	-						
			50 60	3									
		10	35	2									
		10	40	3									
			50 60 70										
		15	80	4									
		20	90										
			100										
		15	(5)	40 50 60				2	7.5	-	-		
				40 50 60				2					
			10	70 80 90 100 110 120				3					
	20		130	4									
			140										
			150										
	20	15	40 50 60 70 80 90	2	10	-	-						
		20	100 110 120 130 140 150	3									
		25	160	4									
		30	180										
		200											
	25	20	40 50 60 70 80 90	2	10	-	-						
			100 110 120 130 140 150	3									
			25	160				4					
			30	180									
				200									
		35	120 130 140 150	3				4					
			160	4									
			180										
			200										
			30						30	120 130 140 150	3	12	-
				35					160	4			
	180												
		200											

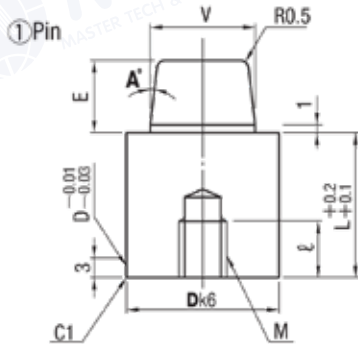
หมายเหตุ (5) มีเฉพาะรหัส GRS

Taper Pins

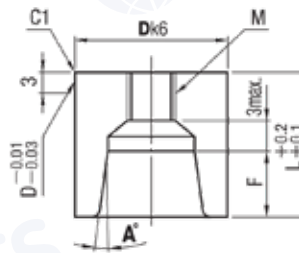
แทปเปอร์พิน (TPN / TPNV)

A

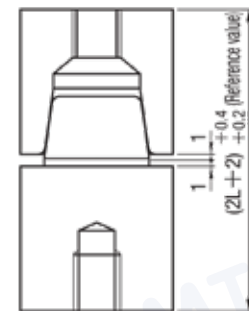
Standard Components
for Plastic Mold



② Bushing



● Dimensions when combined



Code	TPN
Material	SKD11
Hardness	58 - 62 HRC
Concentricity	Match mark type

Code	TPNV
Material	SKD11
Hardness	58 - 62 HRC
Concentricity	0.01 or less

Order Code D x A
TPN 25 x 5

Order Code D x A
TPNV 20 x 3

Code	Dk6		A°
TPN	13	+0.012	1 3 5 10
	16	+0.001	
	20	+0.015	
	25	+0.002	
	30	+0.018	
	32	+0.002	
	35	+0.018	
	42	+0.002	

Code	Dk6		A°
TPNV	10	+0.010	1 3 5
	13	+0.001	
	16	+0.012	
	20	+0.001	
	25	+0.015	
	30	+0.002	
	32	+0.018	
	35	+0.002	

D	L	V	E	F	① Pin		② Setting tap for bushing
					M	ℓ	
10	14	7	6	5	M 4	10	M 4
13	14	7	6	5	M 4	10	M 4
16	14	10	6	5	M 5	10	M 5
20	19	13	9	8	M 6	12	M 6
25	24	16	12	11	M 8	16	M 8
30	29	20	15	14	M 10	20	M 10
32	29	20	15	14	M 10	20	M 10
35	34	24	18	17	M 12	24	M 12
42	39	30	24	23	M 12	24	M 12

Puller Bolts พูลเลอร์โบลท์ (PBTN)

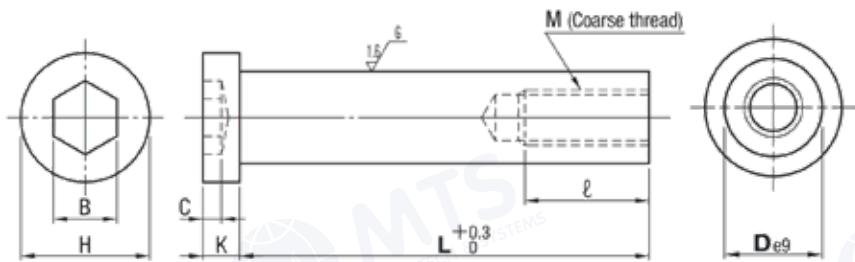
A

Standard Components
for Plastic Mold



Code	PBTN
Material	SCM440
Hardness	33 - 38 HRC

Order Code D x L
PBTN 25 x 200



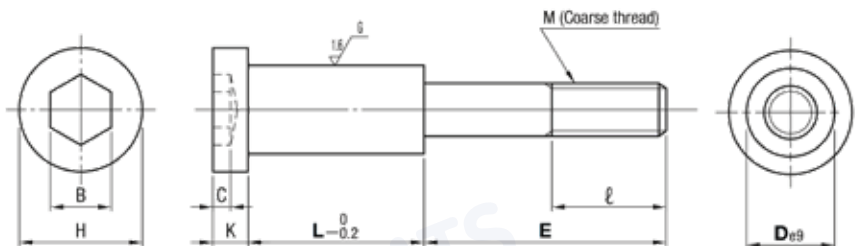
Code	De9	H	K	C	B	M	ℓ	L	10mm increments
PBTN	10	-0.025 -0.061	16	8	4	6	M 6	17	40 - 180
	13	-0.032	18	8	4	8	M 8	20	60 - 280
	16	-0.075	24	13	7	10	M 10	23	100 - 300
	20	-0.040	27	13	9	14	M 12	26	120 - 400
	25	-0.092	33	18	10	17	M 16	32	170 - 400

Stop Bolts สต๊อปโบลท์ (STBG)



Code	STBG
Material	SCM440
Hardness	33 - 38 HRC

Order Code D x L x E
STBG 16 x 20 x 30



Code	De9		H	K	C	B	M	ℓ	L	E	
STBG	10	-0.025 -0.061	16	8	4	6	M 6	17	10	19 24	
									15	19 24 29	
									20	19 24 29 34	
	13	-0.032 -0.075	18	8	4	8	M 8	20	10	22 27	
									15	22 27 32 37	
									20	22 27 32 37 42	
									25	27 32 37 42	
									30	27 32 37 42 47	
									35	37 42 47	
	16		10	24	13	7	10	M 10	23	10	30 35
										15	30 35 40
										20	30 35 40 45
										25	30 35 40 45 50
										30	35 40 45 50 55
										35	45 50 55
	20	-0.040 -0.092	27	13	9	14	M 12	26	15	38 43	
									20	38 43 48	
									25	38 43 48 53	
									30	48 53 58	
									35	48 53 58	
									45	53 58	
	25		33	18	10	17	M 16	32	15	44 49	
									20	49 54 59	
									25	49 54 59	
									30	49 54 59 64	
									40	54 59 64 69	

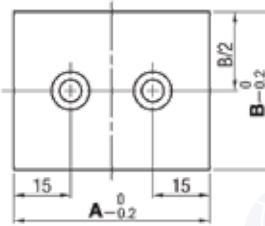
Slide Adjustment Plates

แผ่นเพลปรับสไลด์ (SAS / SASM / SAPZ)

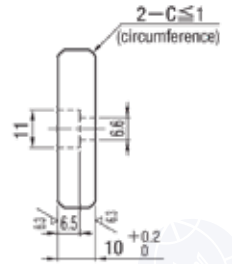
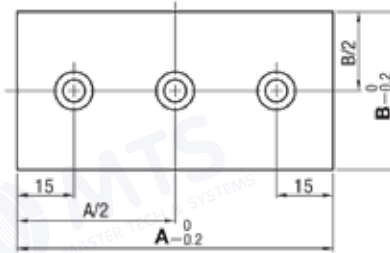
SAS



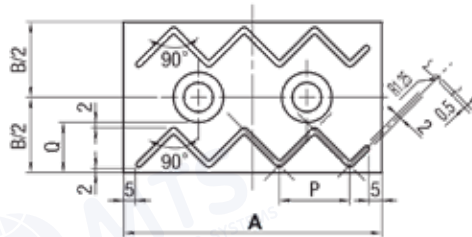
A=50 · 70



A=80 · 100 · 120



SASM



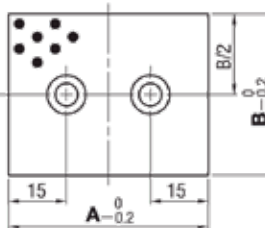
Oil Groove Pitch

B	Q	P
30	9.5	7
40	14.5	17
50	19.5	27
60	24.5	37

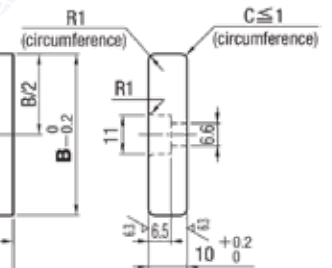
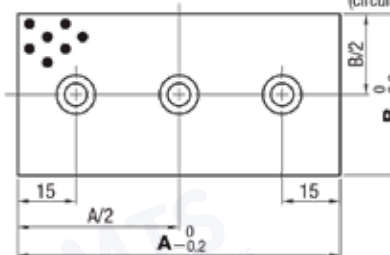
SAPZ



A=50 · 70



A=80 · 100 · 120



Code	Material	Hardness
SAS (Non-oil groove)	SKS3	53 - 56 HRC
SASM (Oil groove)	SKS3	53 - 56 HRC
SAPZ (Oil free)	Brass with graphite	-

Order Code A x B
SAPZ 50 x 30

Code	A	B
SAS (Non-oil groove) SASM (Oil groove) SAPZ (Oil free)	50	30
		40
	70	30
		40
		50
	80	30
		40
		50
		60
	100	40
		50
		60
		60
	120	40
		50
60		

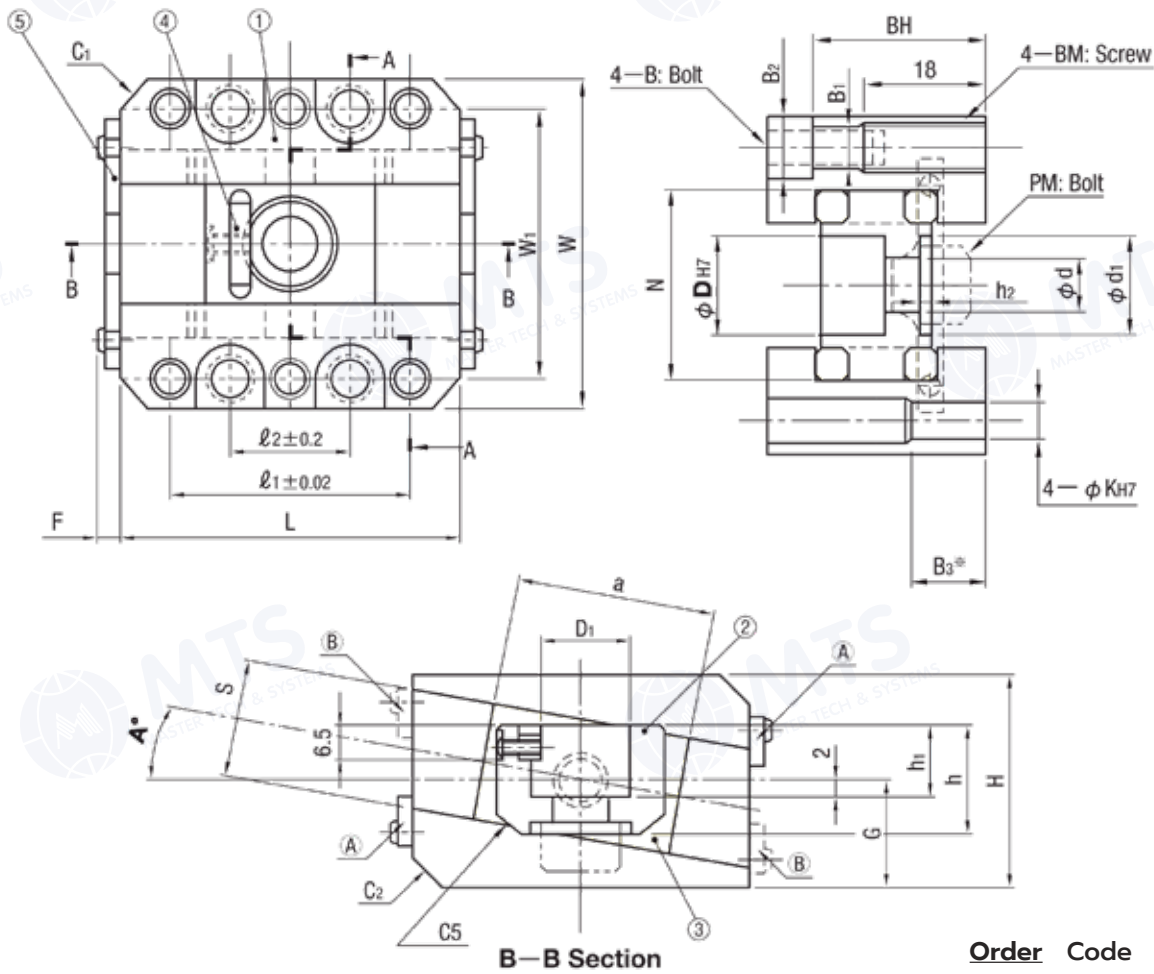
Oil Free Slide Units ชุดสไลด์ออยฟรี (SCZN)

A

Standard Components
for Plastic Mold



Item	Components	Material	Pcs
①	Slide base	S55C	2
②	Inclined pin holder	SCM440	1
③	Slide plate	Brass + Graphite	2
④	Parallel Key	S45C	1
⑤	Stopper	SS400	2



Order Code D - A
SCZN 16 - 0

Code	D	A°	Slide base					Inclined pin holder							Slide plate		G	F
			W	L	H	C1	C2	D1	d	d1	h	h1	h2	N	S	a		
SCZN	12	0 - 10	56	55	35	5	-	11	5.5	-	16	10	-	30	20	35	17.5	4.65
	16		60	65	36	6	-	15	9	16	18	11	3	33	20	40	18	4.65
	20		68	70	43	6	5	18	11	20	22	13	5.5	38	24	40	21.5	4.65
	25		75	80	45	6	5	22	11	20	26	15	5.5	45	26	45	22.5	4.65
	30		81	95	54	6	5	27.5	11	20	30	17	3.5	51	30	55	27	4.65

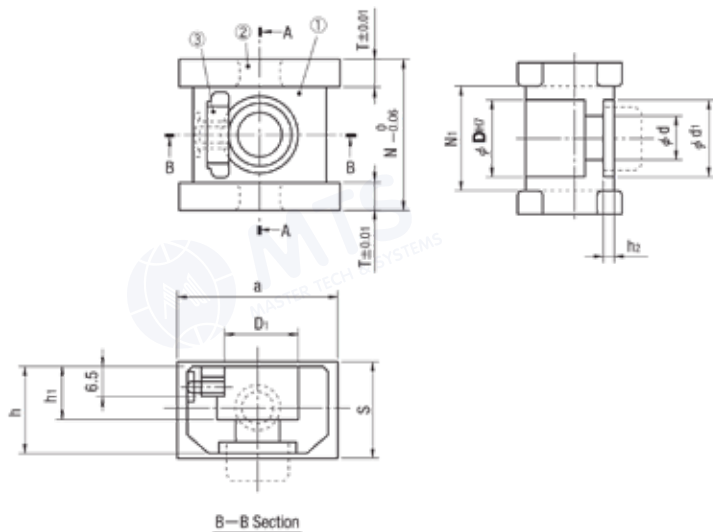
D	Bolt hole dimensions									Mounting position of stopper	
	ℓ ₁	ℓ ₂	W ₁	B ₁	B ₂	B ₃	BM	BH	K	Ⓐ	Ⓑ
12	42	21	45	6.6	11	15	M 8	28.5	6	0° - 10°	-
16	46	25	48	6.6	11		M 8	29.5	6	0° - 10°	-
20	50	25	55	8.6	13.5	20	M 10	34.5	8	4° - 10°	0° - 3°
25	60	35	62	8.6	13.5		M 10	36.5	8	4° - 10°	0° - 3°
30	75	50	68	8.6	13.5		M 10	45.5	8	0° - 10°	-

Oil Free Inclined Pin Holders

ชุดสไลด์ยึดพินเอียงจอยฟรี (SCZNP)



Order Code D
SCZNP 16



Item	Components	Material	Pcs
①	Inclined pin holder	SCM440	1
②	Slide plate	Brass + Graphite	2
③	Key	S45C	1

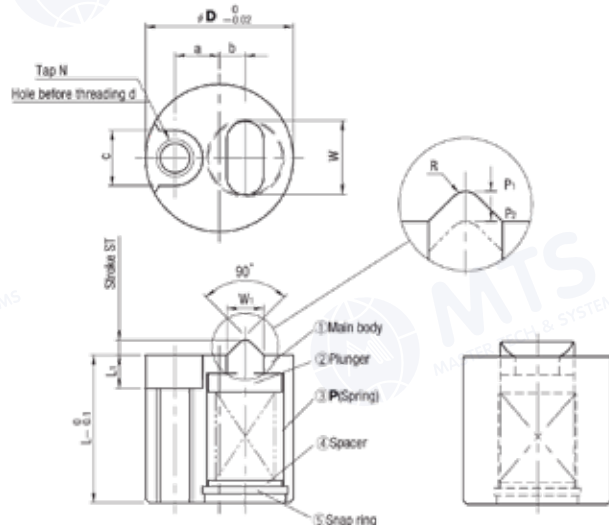
Code	D	① Inclined pin holder Common with SCZN ② Inclined pin holder								② Slide plate Common with SCZN ③ Slide plate		
		D1	d	d1	h	h1	h2	N	N1	S	a	T
SCZNP	12	11	5.5	-	16	10	-	30	17	20	35	6.5
	16	15	9	16	18	11	3	33	20	20	40	6.5
	20	18	11	20	22	13	5.5	38	25	24	40	6.5
	25	22	11	20	26	15	5.5	45	31	26	45	7
	30	27.5	11	20	30	17	3.5	51	36	30	55	7.5

Slide Locks สไลด์ล็อก (SLLK)



Code	SLLK
Material	SUJ2
Hardness	58 HRC ~

Order Code D x P
SLLK 16 x F



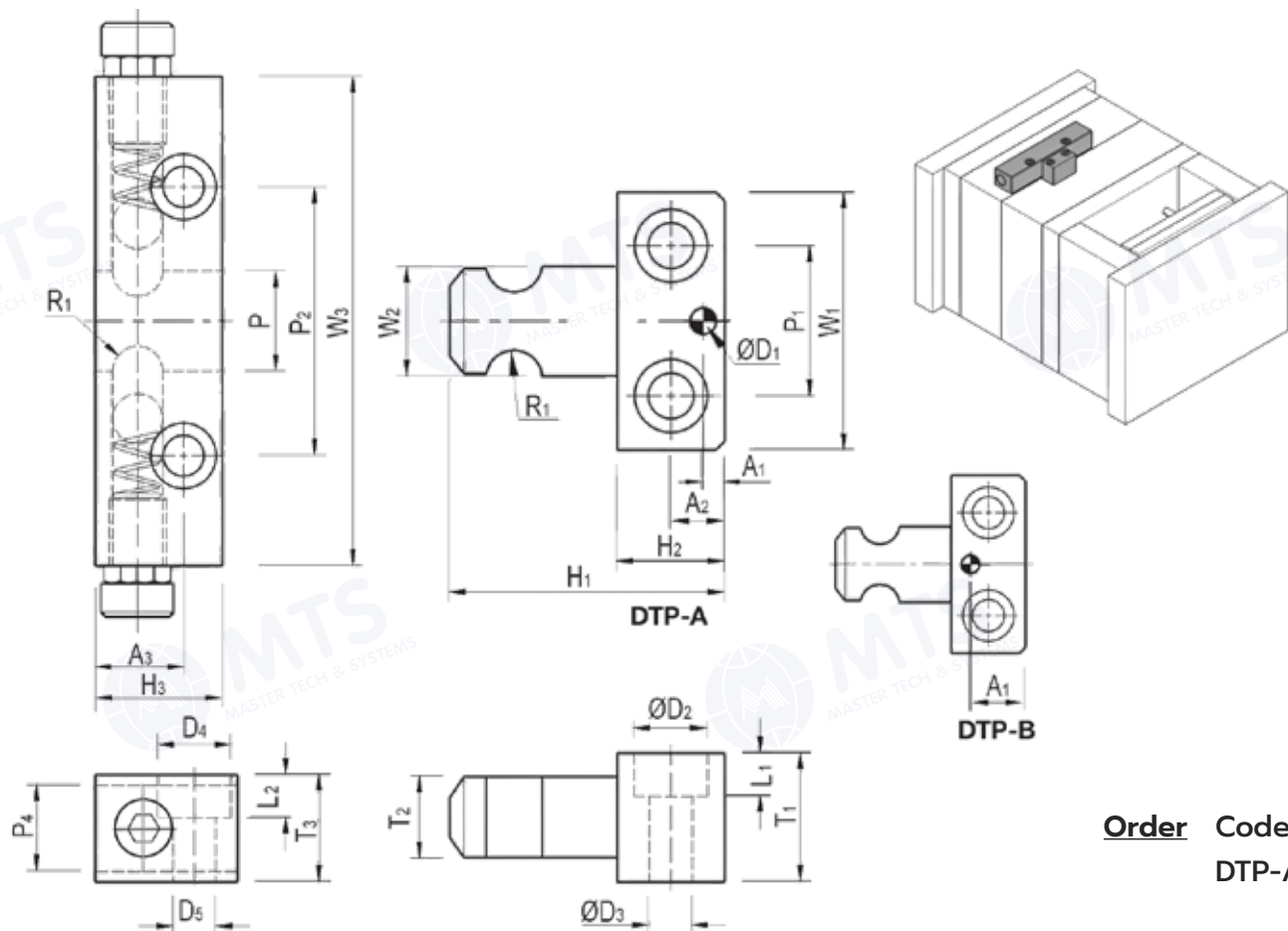
Code	D	P	ST	L	L1	a	b	c	d	Bolt size	Tap N	W	W1	R	Load (N)	
															P1 [min.]	P2 [max.]
SLLK	16	C (SWC8 - 15)	1.6	15	3.3	5	2.5	6	3.2	M3	M4	8	4	1	22.5	28.6
		F (SWF8 - 15)													62.0	78.8
	20	F (SWF10 - 15)	2	20	4.5	6	3.5	7.5	4.3	M4	M5	10	5	1.1	36.7	62.9
		L (SWL10 - 15)													64.1	110

Latch Locks

ตัวล็อกแม่พิมพ์ (DTP)

A

Standard Components
for Plastic Mold



Order Code
DTP-A

Code	P	P1	P2	P4	R1	T1	T2	T3	W1	W2	W3
DTP-A	18	25	60	12.5	R4.25	20.5	12	20.5	40	17.5	86
DTP-B	26	35	70	20	R6.5	30	19.5	25	60	25.5	127.5

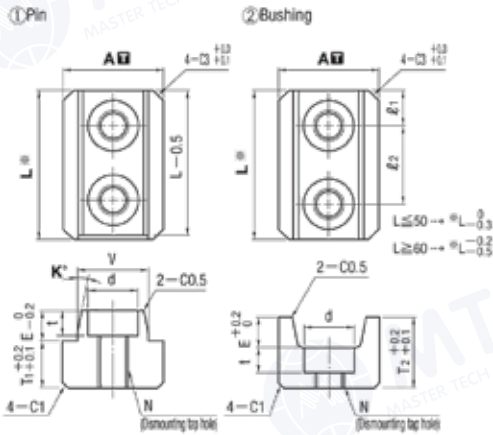
A1	A2	A3	D1	D2	D3	D4	D5	H1	H2	H3	L1	L2
6	12	21	Ø5	Ø10.5	Ø6.5	Ø11	Ø6.5	48	20	28	6.5	6.5
20	12.5	23	Ø6	Ø17	Ø10	Ø17	Ø10	62.5	25	33	10	10

Taper Block Sets

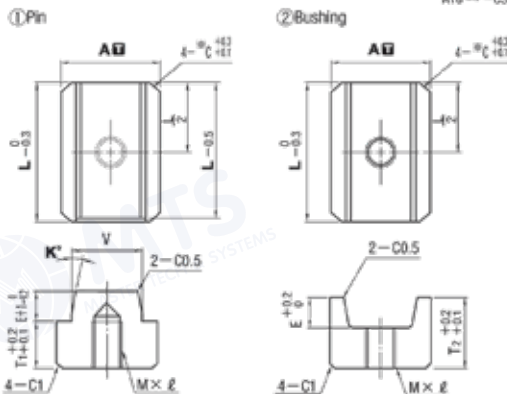
ชุดเทปเปอร์บล็อก (TBS)



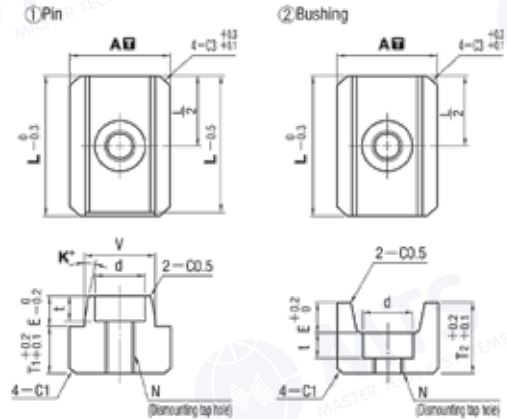
■ Mounting bolt hole: 2 (L30~120)



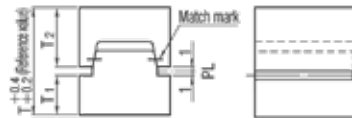
■ Mounting bolt hole: 1 (A12 and A16 only)



■ Mounting bolt hole: 1 (L20~25, except A12 and A16)



● Dimensions when combined



Order Code A x L x K
TBS 20 x 25 x 5

Code	T A	V dimension symmetry against A plane	Material	Hardness
TBS	+0.02 0	(Match mark type) To add fitting processing, not applicable to combination with other than sets.	SKD11 equivalent	58 - 62 HRC

Code	A	L	K°	V	E	T	T1	T2	Bolt hole				Installation bolts	Tap N	Tap hole M × ℓ	No. of bolt holes
									ℓ1	ℓ2	d	t				
TBS	12	15	1	7	5	23	7	14	-	-	-	-	M3 bolt	M3	M3 × 6	1 (Tap hole)
		20		9	M4 bolt								M4	M4 × 6	1 (Tap hole)	
	16	20		7	12				7.5	15	6.5	3.5	M3 bolt	M4	-	1
		25														
		30														
		40														
	20	20		8	15	10	20	8	5	M4 bolt	M5	2				
		25														
		30														
		40														
	25	25	17	10	32	10	20	9	6	M5 bolt	M6	1				
		30														
		40														
		50														
	30	30	20	10	35	11	22	10	20	11	7	M6 bolt	M8	2		
		40														
		50														
		75														
	35	40	25	15	45	14	29	17.5	40	20	60	14	9		M8 bolt	M10
		50														
75																
100																
45	60	3	5	35	20	60	19	39	15	30	14	9	M8 bolt		M10	
	90															
	120															
	150															

Taper Block Sets

ชุดเทเปอร์บล็อก (TBSF)

A

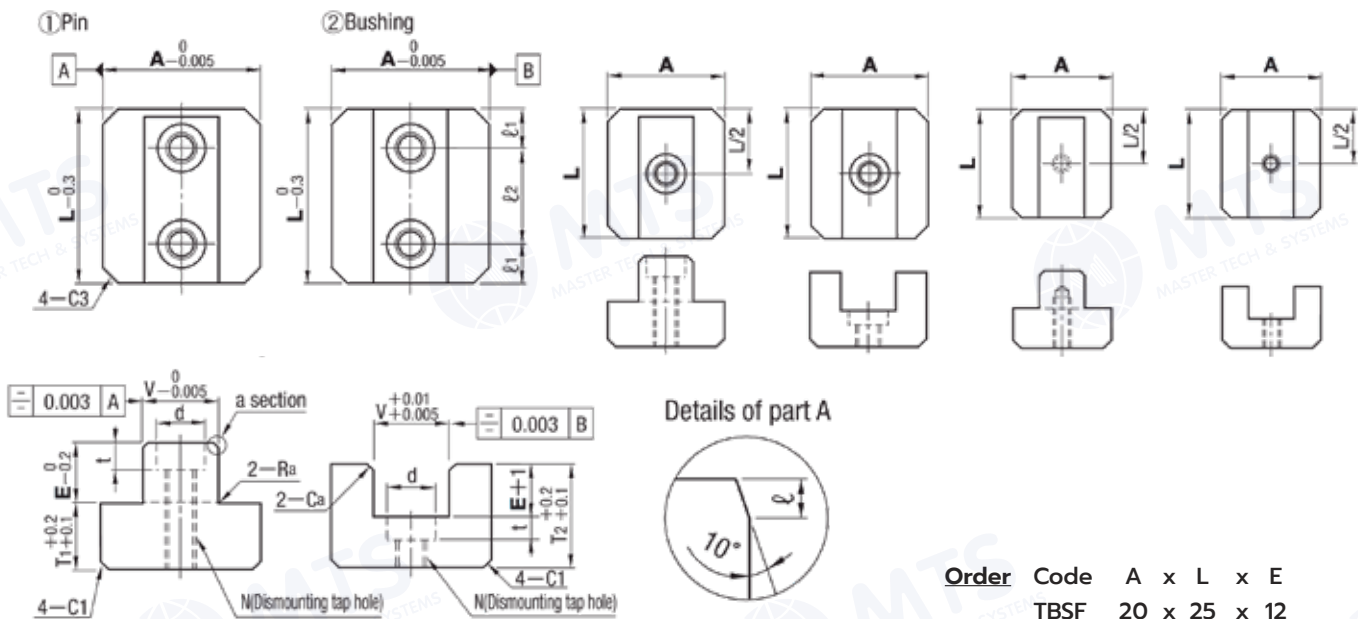
Standard Components
for Plastic Mold



■ Mounting bolt hole: 2 (L30~50)

■ Mounting bolt hole: 1 (L25)

■ Mounting bolt hole: 1 (L16 · 20)

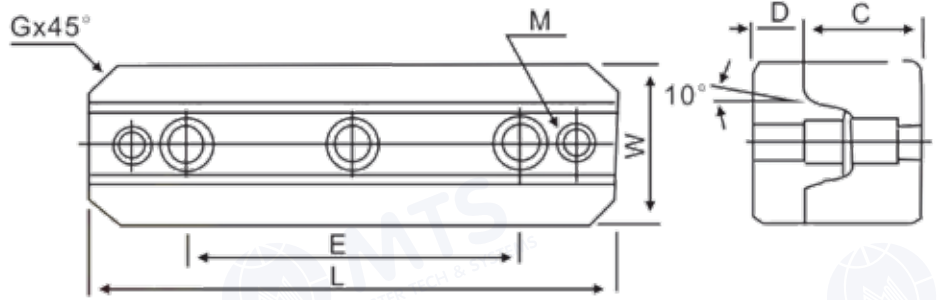


Code	T V		Positioning precision (Clearance)	V dimension symmetry against A/B plane	Material	Hardness
	① Pin	② Bushing				
TBSF	0 -0.005	+0.01 +0.005	0.005 - 0.015	0.003 or less	SKD11	58 - 62 HRC

Code	A	L Selection	E	V	T	T1	T2	ℓ	Ra	Ca	Bolt hole				Installation bolts	Tap N	No. of bolt holes																				
											ℓ1	ℓ2	d	t																							
TBSF	16	16	8	9	26	8	17	1	0.5	0.5	-	-	-	-	M4 bolt	M4	1 (Tap hole)																				
			12		30		21										1 (Tap hole)																				
		20	8		26		17										7.5	15	6.5	3.5	M3 bolt	1															
			12		30		21																2														
	20	25	8	12	26	10	17	7.5	15	6.5	3.5	M3 bolt	1																								
			12		30		21							2																							
		30	8		26		17							7.5	15	6.5	3.5	M3 bolt	1																		
			12		30		21													2																	
	25	25	10	15	32	10	21	1	0.5	0.5	-	-	8							5	M4 bolt	M5	1														
			15		37		26	2	1	1													7.5	15	9.5	6	M5 bolt	M6	2								
		30	10		32		21	1	0.5	0.5				7.5	15	9.5	6	M5 bolt	M6											2							
			15		37		26	2	1	1																					7.5	15	9.5	6	M5 bolt	M6	2
	30	30	12	17	36	12	23	1	0.5	0.5	7.5	15	9.5							6	M5 bolt	M6															
			20		44		31	2	1	1													7.5	15	9.5	6	M5 bolt	M6	2								
		40	12		36		23	1	0.5	0.5				7.5	15	9.5	6	M5 bolt	M6											2							
			20		44		31	2	1	1																					7.5	15	9.5	6	M5 bolt	M6	2
	35	40	15	20	41	12	28	2	1	1	10	20	11							7	M6 bolt	M8															
			25		51		38																2	1	1	10	20	11	7								
		50	15		41		28							2	1	1	10	20	11											7							
			25		51		38																								2	1	1	10	20	11	7

Tapered Block Sets

ชุดเทเปอร์บล็อก (S02)

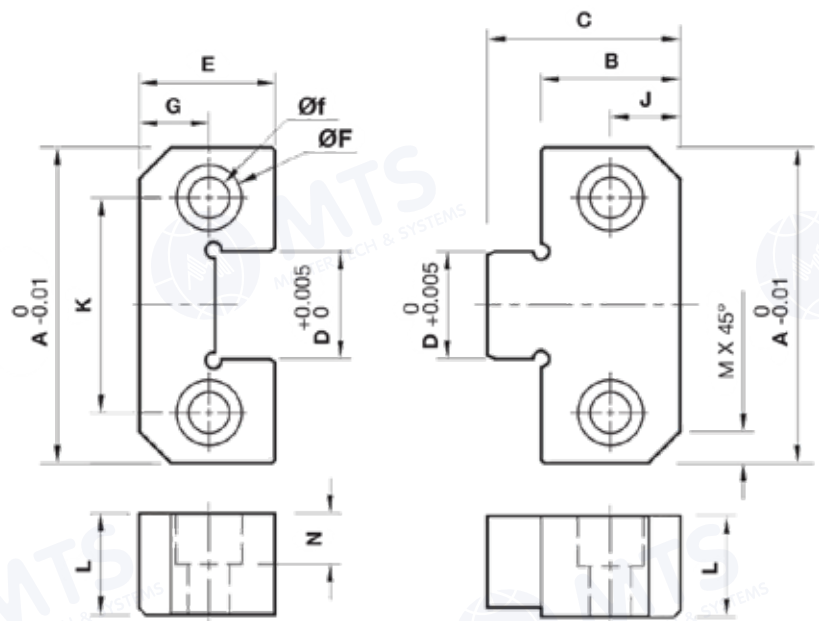
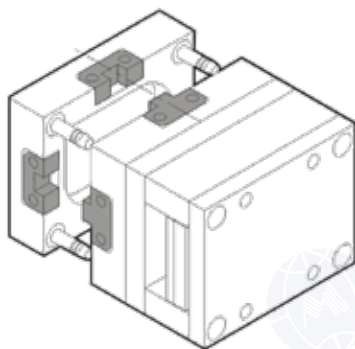


Code	S02
Material	YK30
Hardness	58 HRC ~

Order Code
S02-50

Code	E	L	W	D	C	G	M
S02-50	-	50	25	8	17.5	5	M5
S02-100	60	100	30	10	22	5	M6
S02-150	100	150	40	13	25	5	M8

Side Locks ตัวล็อคตำแหน่งแม่พิมพ์ (PL)



Order Code
PL-38

Code	A	B	C	D	F	f	K	J	G	M	L	N	E
PL-38	38	22	30	12	10	6.5	22	7	7	5	13	8	22
PL-50	50	21.5		17	11	6.5	34	11	11		16		21.5
PL-75	75	36	50	25	17	11	50	18	18	8	19	12	36
PL-100	100	45	65	35			70	22	22	10			25
PL-125	125			45			84						

Side Straight Block Sets

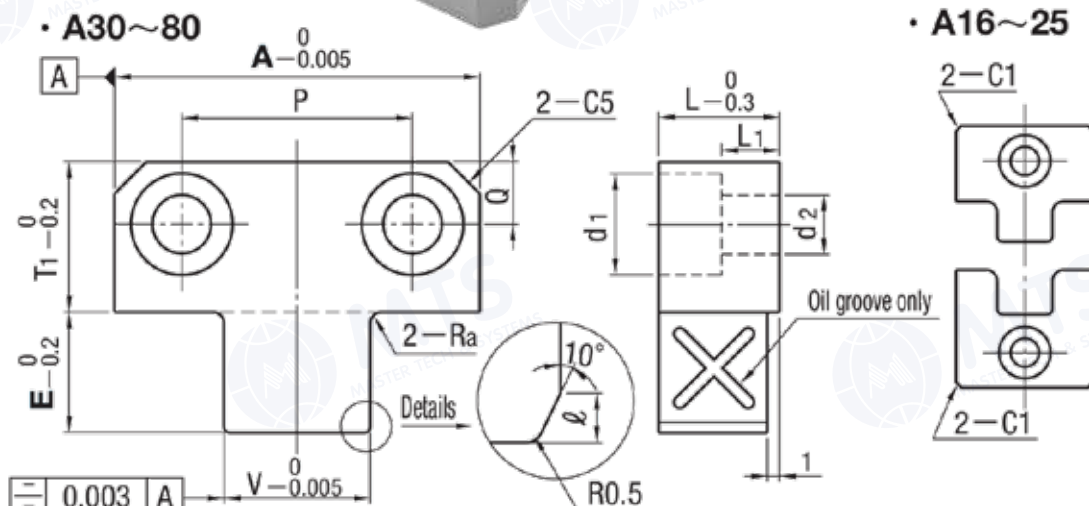
ตัวล็อกตำแหน่งแม่พิมพ์ (TSSB)

A

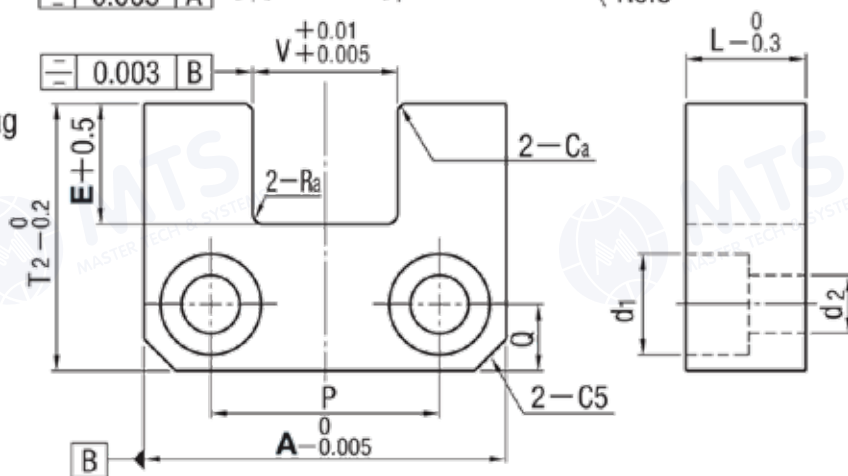
Standard Components
for Plastic Mold



① Pin



② Bushing



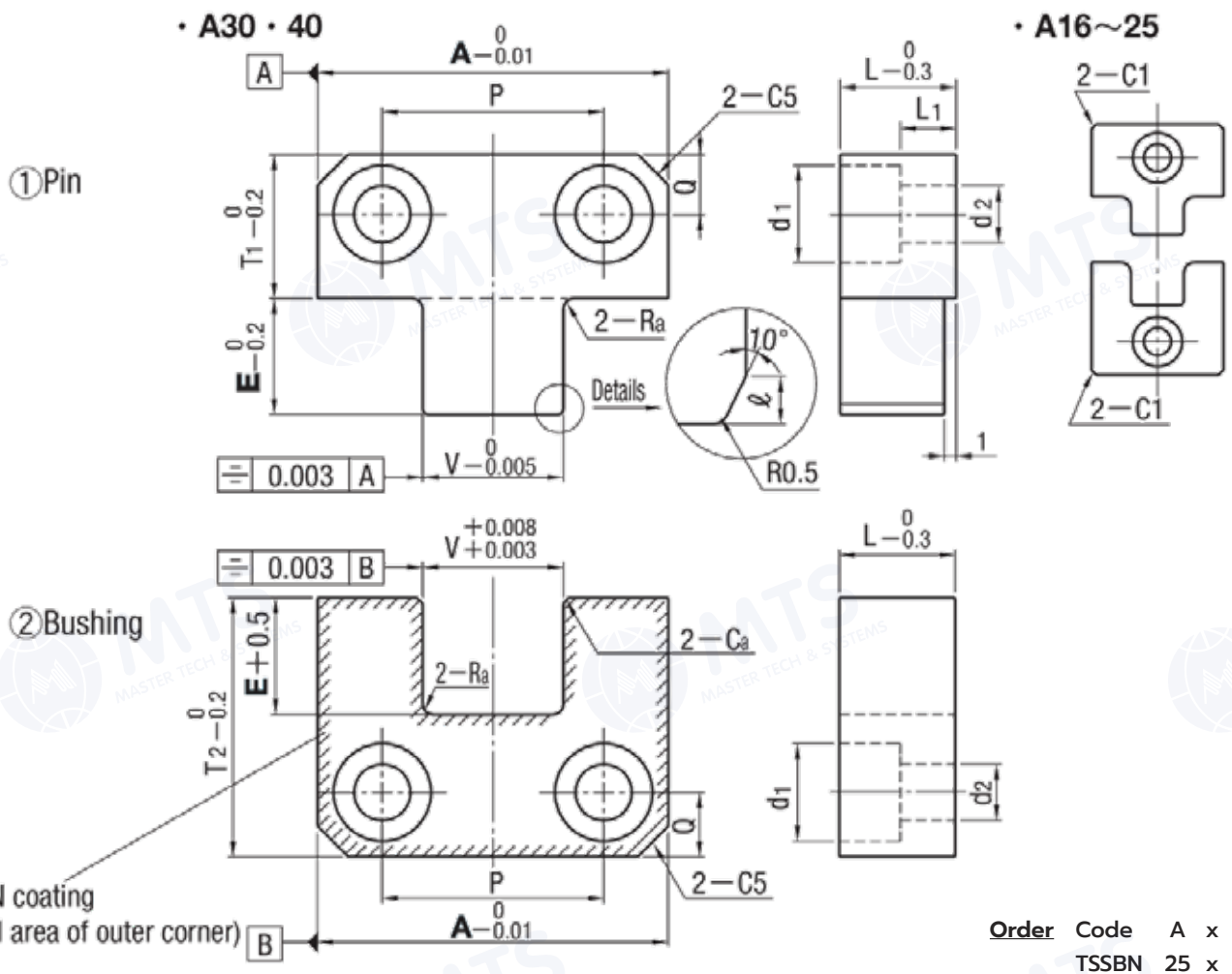
Order Code A x E
TSSB 30 x 8

Code	T V		Positioning precision (Clearance)	V dimension symmetry against A/B plane	Material	Hardness
	① Pin	② Bushing				
TSSB	0 -0.005	+0.01 +0.005	0.005 - 0.015	0.003 or less	SKD11	58 - 62 HRC

Code	A	E	V	T ₁	T ₂	ℓ	R _a	C _a	Bolt hole				Installation bolts	L	L ₁
									P	Q	d ₁	d ₂			
TSSB	16	6	7	11	17	1	1	0.5	-	5	8	4.5	M4 bolt	8	3
	20	6	8		19										
	25	8	10												
	30	8	12	14	22	1	1	0.5	16	6	9.5	5.5	M5 bolt	10	4
		20			34										
	40	10	15	18	28	1	1	0.5	22	7	11	6.6	M6 bolt	13	6
		25			43										
	60	20	25	30	50	2	2	1	36	12	14	8.6	M8 bolt	20	11
		35			65										
	80	30	30	40	70				52	14	18	11	M10 bolt	25	14
45		85													

Side Straight Block Sets - Tin Coating

ตัวล็อกตำแหน่งแม่พิมพ์ (TSSBN)



Code	T V		Positioning precision (Clearance)	V dimension symmetry against A/B plane	Material	Hardness
	① Pin	② Bushing				
TSSBN	0 -0.005	+0.008 +0.002	0.003 - 0.013	0.003 or less	① SKD11 ② SKD11 - TiN coating	① 53 - 56 HRC ② 53 - 56 HRC 2000 HV~

Code	A	E	V	T1	T2	ℓ	Ra	Ca	Bolt hole				Installation bolts	L	L1
									P	Q	d1	d2			
TSSBN	16	6	7	11	17	1	1	0.5	-	5	8	4.5	M4 bolt	8	3
	20	6	8		19										
	25	8	10	14	22				16	6	9.5	5.5	M5 bolt	10	4
	30	8	12	18	28				22	7	11	6.6	M6 bolt	13	6
	40	10	15												

Positioning Straight Block Sets

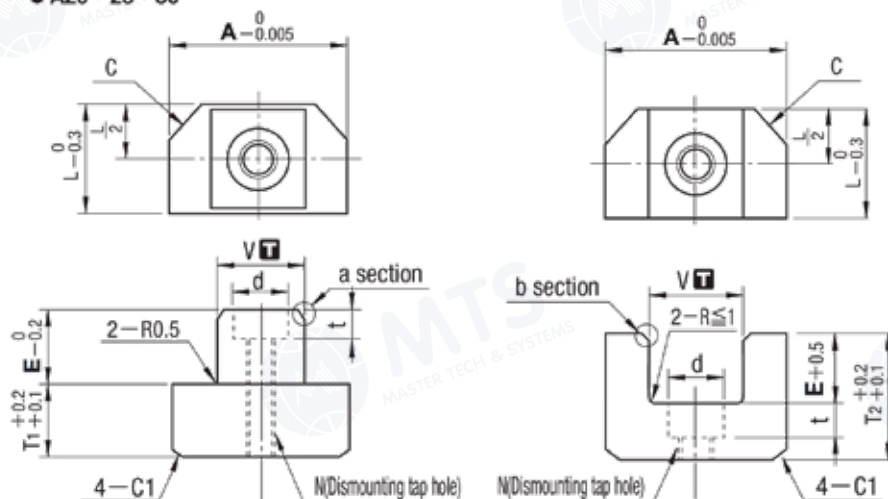
ตัวล็อกตำแหน่งแม่พิมพ์ (TTSB)

A

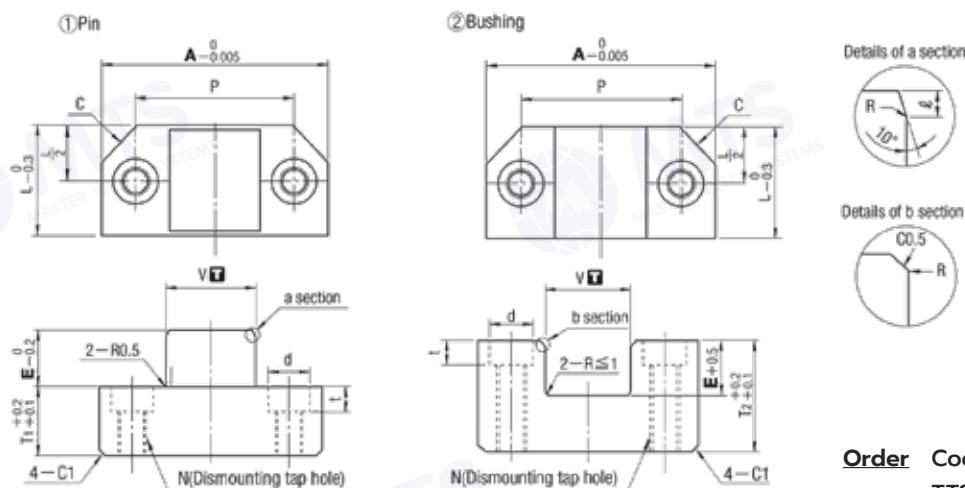
Standard Components
for Plastic Mold



● A20 · 25 · 30



● A40 · 50



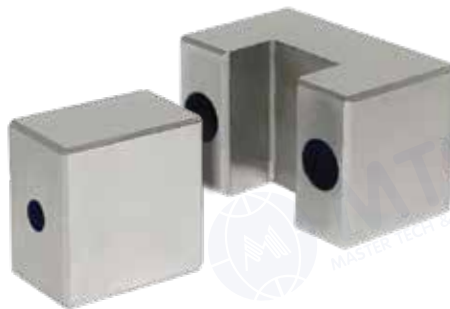
Order Code A x E
TTSB 25 x 8

Code	T V		Positioning precision (Clearance)	V dimension symmetry against A/B plane	Material	Hardness
	① Pin	② Bushing				
TTSB	0 -0.005	+0.01 +0.005	0.005 - 0.015	0.003 or less	SKD11	58 - 62 HRC

Code	A	E	L	T	T1	T2	V	ℓ	C	P	Bolt hole		Installation bolts	Tap N
											d	t		
TTSB	20	6	12	23	8	14	10	0.5	4	-	6.5	3.5	M3 bolt	M4
	25	8	15	28	10	17	12	1			8	4.5	M4 bolt	M5
	30	8		20	43	17	25		15	2	28	9.5		
	40	10	25					46					28	20
	50	15		25	46	28	20		35	28	9.5	5.5		
	60	18	28					49					31	23

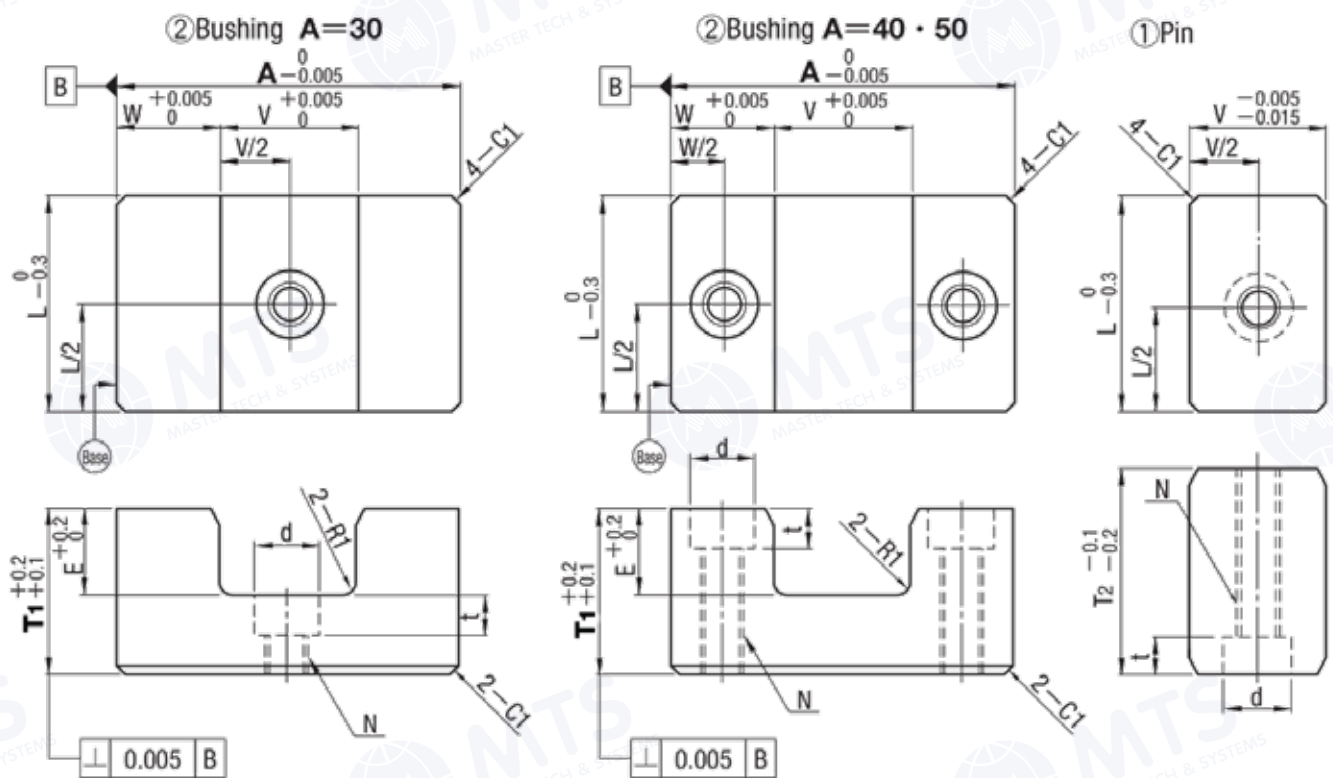
Positioning Block Sets

ตัวล็อกตำแหน่งแม่พิมพ์ (LBJX)



Code	LBJX
Material	SKD11
Hardness	58 - 62 HRC

Order Code A x T1
LBJX 30 x 19

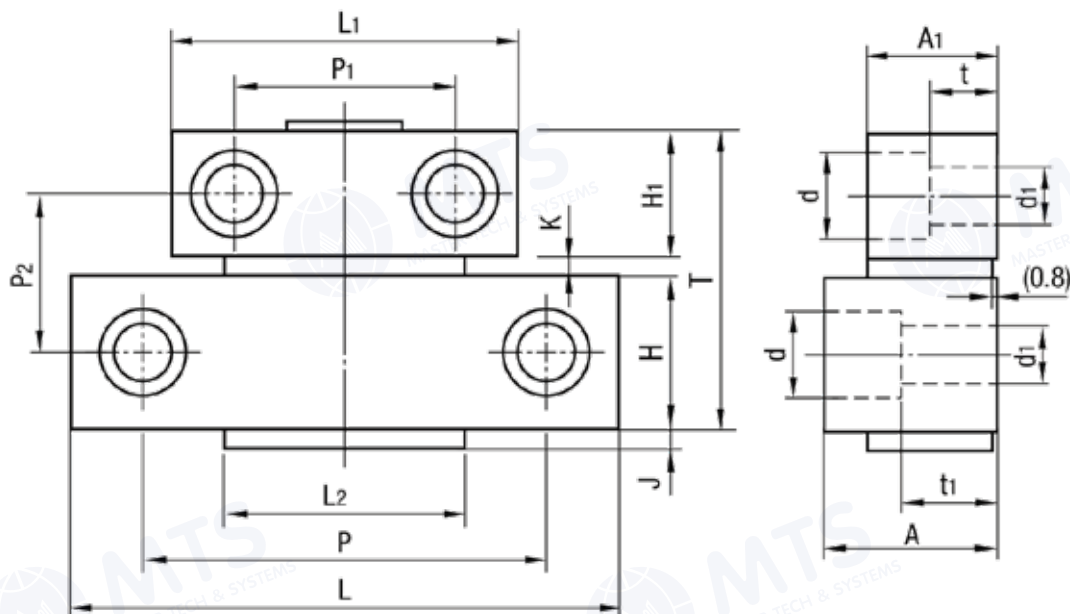
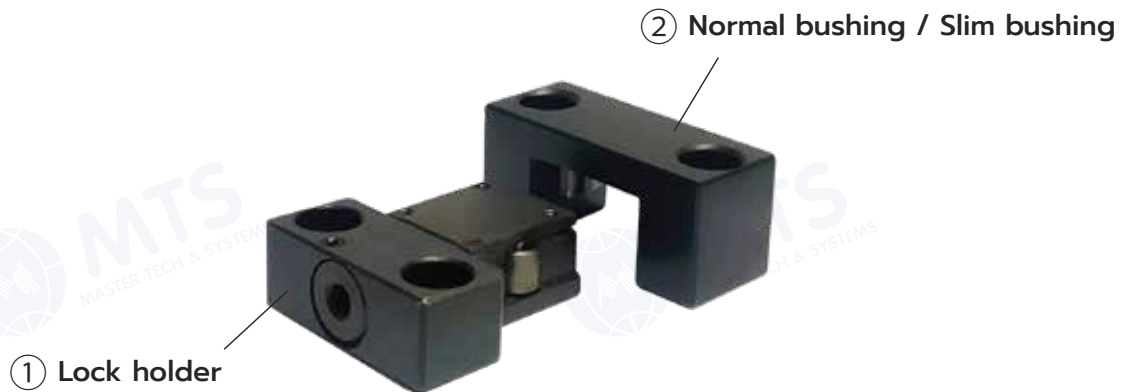


Code	A	T1	W	V	E	T2	d	t	Installation bolts	Tap N	L
LBJX	30	14	9	12	6	18	8	4.5	M4	M5	20
		19									
	40	19	12	16	10	25					25
		24									
	50	29	15	20	15	35	11	6.5	M6	M8	30
		34									

Roller Lock Sets ชุดล็อกโรลเลอร์ (MPLK)

A

Standard Components
for Plastic Mold



* Use under temperature 80°

Code	MPLK
Material	S50C + SK3

Order Code No.
MPLK 60

Standard type

Code	No.	Max. usable load (2 sets under normal temp)	L	L1	L2	T	H	H1	J	K	P	P1	P2	A	A1	t	t1	d	d1	A 2 pcs. Each
MPLK	10	981N {100kgf}	48	36	25	42	22	18	2	2	36	24	22	24	16	9.5	18	11	6.5	CB6 - 20 CB6 - 30
	20	1961N {200kgf}	54	42	35	48.5	25	20	3.5	3.5	40	28	26	27	19	9	16	14	9	CB6 - 20 CB6 - 25
	30	2942N {300kgf}	65	46	35	56.5	25	20	3.5	11.5	50	31	34	27	19	9.5	17	14	9	CB6 - 30 CB6 - 35
	60	5884N {600kgf}	73	50	35	79.5	25	20	3.5	34.5	52	33	62	27	19	9.5	17	14	9	CB8 - 30 CB8 - 35
	80S	7845N {800kgf}	73	50	35	87.5	25	20	3.5	42.5	52	33	62	27	19	9.5	17	14	9	CB8 - 30 CB8 - 35
	100	9807N {1000kgf}	103	65	48	89	30	24	4	35	76	42	62	34	25	13	19	17	11	CB10 - 30 CB10 - 35

Long type

Code	No.	Max. usable load (2 sets under normal temp)	L	L1	L2	T	H	H1	J	K	P	P1	P2	A	A1	t	t1	d	d1	A 2 pcs. Each
MPLK	60L	5884N {600kgf}	73	50	35	79.5	25	20	3.5	34.5	52	33	57	27	19	9.5	17	14	9	CB8 - 30 CB8 - 35
	80	7845N {800kgf}	73	50	35	87.5	25	20	3.5	42.5	52	33	65	27	19	9.5	17	14	9	CB8 - 30 CB8 - 35
	100L	9807N {1000kgf}	103	65	48	89	30	24	4	35	76	42	62	34	25	13	19	17	11	CB10 - 30 CB10 - 35

Magnet Lock Sets

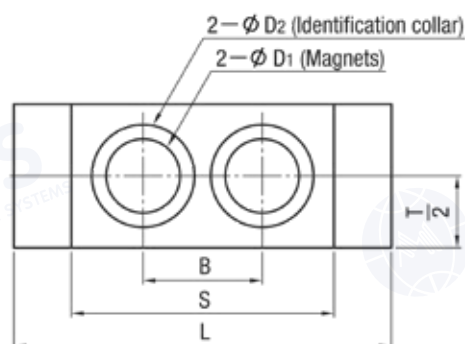
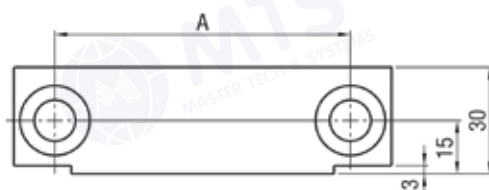
ชุดล็อกแม่เหล็ก (MLK)



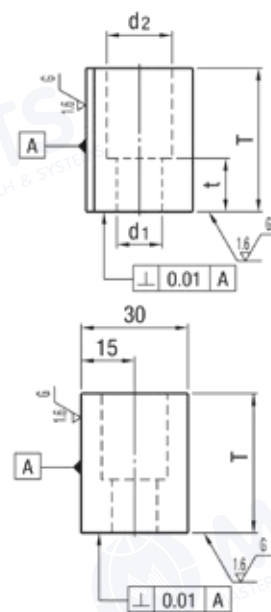
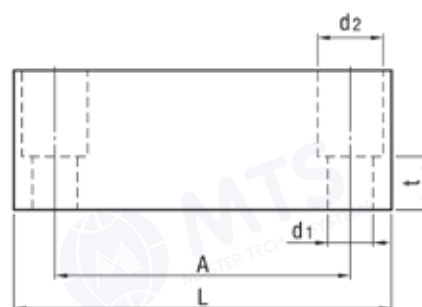
Code	MLK
Material	SS400 + Magnet

Order Code No.
MLK 60

● Holder



● Block



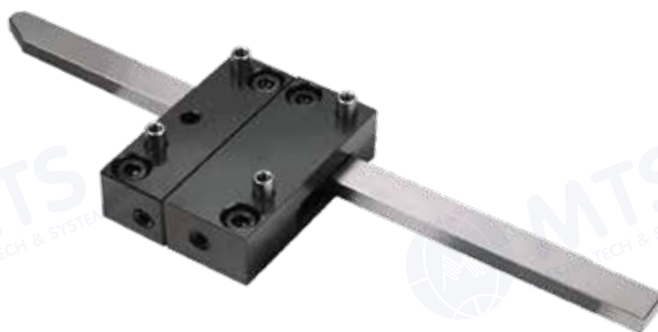
Code	Adhesion strength (per set under 20°C)	A	B	S	L	T	t	D1	D2	Identification collar	d1	d2	Accessories
MLK 40	392.3N {40kgf}	63	25	60	80	25	12	18	22	Gold (Brass)	9	14	CB8 - 25 Spring washers 4pcs.
MLK 80	784.5N {80kgf}									Silver (Aluminum)			
MLK 100	980.7N {100kgf}	100	39	79	126	40	15	30	34	Gold (Brass)	11	18	CB10 - 30 Spring washers 4pcs.
MLK 200	1961.3N {200kgf}									Silver (Aluminum)			

Parting Lock Sets

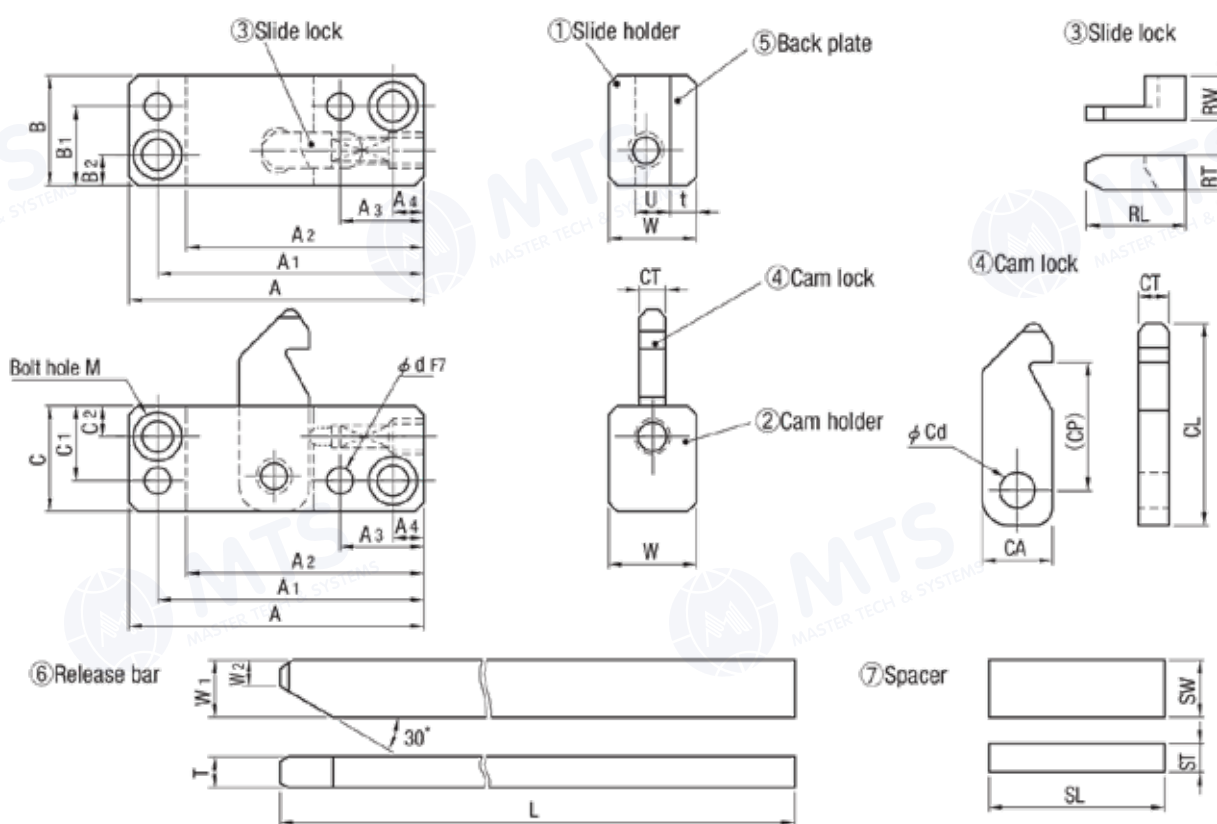
ชุดพาร์ทล็อก (PLS / PLM / PLL)

A

Standard Components
for Plastic Mold



Order Code
PLS



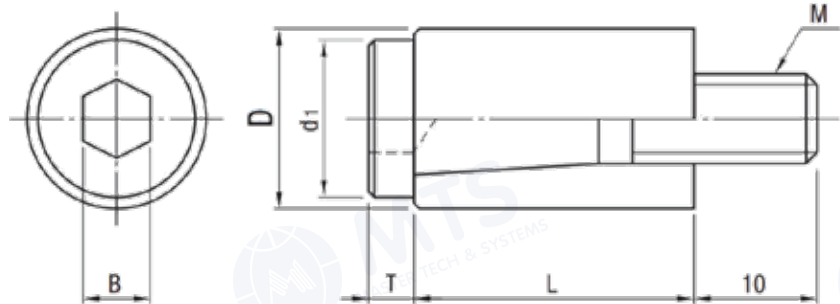
Item	① Slide holder	② Cam holder	③ Slide lock	④ Cam lock	⑤ Back plate	⑥ Release bar	⑦ Spacer
Material	SKD61	SKD61	SKD11	SKD11	SK	S45C	S45C
Hardness	50 - 55 HRC	50 - 55 HRC	58 HRC ~	58 HRC ~	50 HRC ~	45 HRC ~ (Induction hardening)	-

Code	① Slide holder ② Cam holder																③ Slide lock		
	A	A1	A2	A3	A4	B	B1	B2	C	C1	C2	W	U	Bolt hole M	d		RL	RT	RW
PLS	68	61.5	55	19	7	26	19	7	24	17	7	20	8	For M6	φ 6		18	7	11
PLM	88	79	70	24	9	38	29	9	30	21	9	30	12	For M8	φ 8		20	9	16
PLL	104	93	82	27	11	48	37	11	38	27	11	45	20	For M10	φ 10		24	12	26

Code	④ Cam lock					⑤	⑥ Release bar				⑦ Spacer			Accessories		
	CL	CP	CA	CT	Cd		W1	W2	T	L	SW	ST	SL	Bolt 4 pcs.	Dowel pin 4 pcs.	Spring 2 pcs.
PLS	45	28	16	7.5	8	6	13	5.9	7	250	13	6.5	40	CB6 - 25	MSTM6 - 30	WHH6 - 15
PLM	64	41	20	10	10	7	16	8	10	300	16	8	50	CB8 - 35	MSTM8 - 40	WHH8 - 20
PLL	84	53.5	25	18	13	8	20	9.5	15.5	350	20	10.2	55	CB10 - 50	MSTM10 - 50	WHH8 - 20

Parting Locks

พาร์ทติงล็อก (PL / PLO)

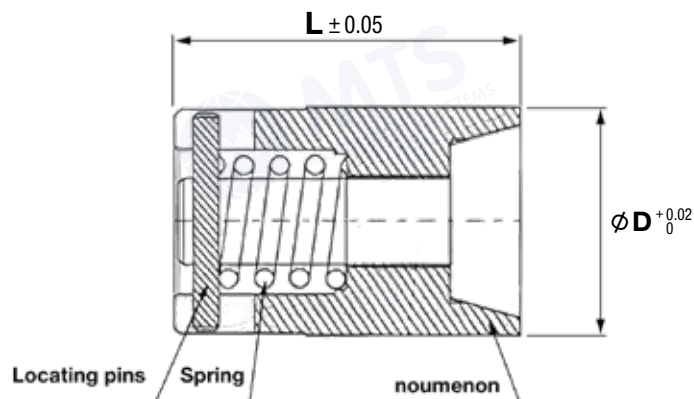


Code	PL (Yellow) PLO (Orange)
Material	SCM435 + Resin

Order Code D
PL 16

Code	D	d1	M	B	L	T	Color	Qty / Box
PL	10	8.5	5	4	18	3	Yellow	12
	12	11	6	5	20	3.5		12
	13	11	6	5	21	3.5		12
	16	14	8	6	26	4.5		12
	20	16	10	8	31	5		10
PLO	13	11	6	5	21	3.5	Orange	12
	16	14	8	6	26	4.5		12
	20	16	10	8	31	5		10

Air Jet Valves ตัวระบายอากาศ (AJV)



Code	AJV
Material	SUS420

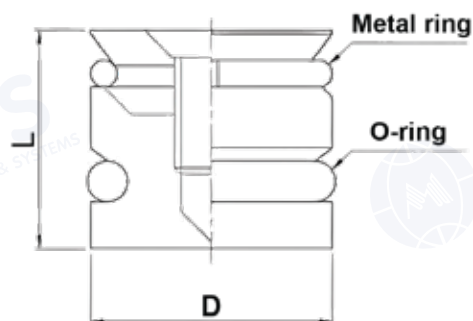
Order Code D x L
AJV 16 x 30

Code	D	L
AJV	5	12
	6	12
	8	12 15
	10	12 15 20
	12	12 15 20 25
	16	20 25 30
	20	20 30 35
	25	30
	30	30

Cooling Plugs ตัวอุดรูน้ำ (CL)

A

Standard Components
for Plastic Mold

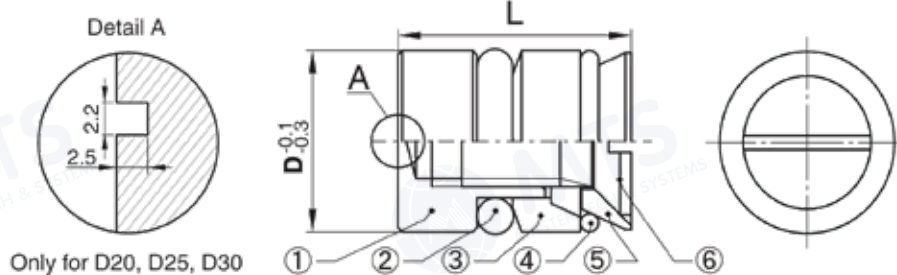


Code	D	L
CL	6	10
	8	10
	10	11
	12	12
	14	13
	16	14
	20	18
	25	19
	30	19

Code	CL
Material	Brass

Order Code D
CL 12

Cooling Plugs ตัวอุดรูน้ำ (JWP)



Code	JWP
Material	Brass

Order Code D
JWP 8

Code	D	L
JWP	6	10
	8	
	8.5	
	10	
	11.5	
	12	
	14	12



Item	① Body	② O-rings	③ Spacer	④ Metal ring	⑤ Tapered washer	⑥ Screw
Material	Brass (C3604)	Fluoric rubber	Brass (C3604)	-	Brass (C3604)	Brass (C3604)

Date Inserts

ตัวขึ้นบอกวันที่ (DM□, DT□, DT□X)

DM□ แบบถอดใส่ไม่ได้



Material SUS420

Order Code D x L
DMS 6 x 10

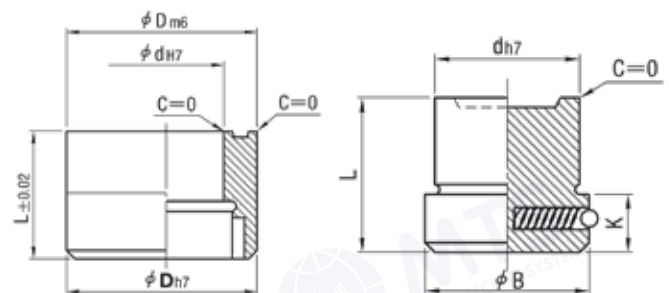
Code	D	L
DMB	3	6
		8
DM	4	6
		8
DMS	5	8
		8
DMD	6	10
		10
DMF	8	10
		12
DME	10	10
		12
		12
		14
DMN	12	14
		14
		16

DT□ แบบถอดใส่ได้



Material SUS420

Order Code D
DTD 10



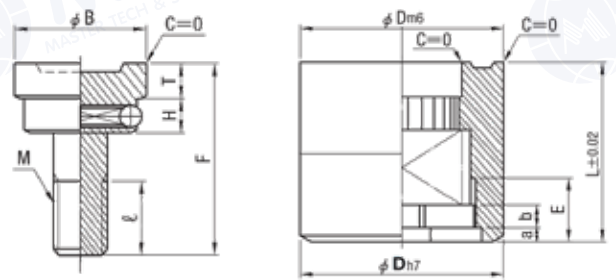
Code	D	Dm6	Dh7	L	d	dh7	B	K
DTBB	3	+0.008 +0.002	0 -0.010	8	1.4	+0.010 0	2	3
DT	4	+0.012	0	8	1.9		2.8	3
	5	+0.004	-0.012	8	2.3		3.4	4
DTS	6			8	2.8		4	4
DTD	8	+0.015	0	10	4	+0.012	5.6	4
DTF	10	+0.006	-0.015	12	5	0	6.5	6
DTE	16	+0.018	0	14	10	+0.015	12	6
		+0.007	-0.018			0		
DTN	20	+0.021 +0.008	0 -0.021	16	12	+0.018 0	14	6

DT□X แบบถอดใส่ได้



Material SUS420

Order Code D
DTBX 12



Code	D	Dm6	Dh7	L	E	a	b	F	T	H	B	e	M x P
DTBX	4	+0.012	0	8	2.8	1.0	1.2	7.7	1.5	3.0	2.4	2.7	M1.6 X 0.20
DTX	5	+0.004	-0.012	8	2.85						2.9		
	6			8	2.9						3.7		
DTXS	8	+0.015	0	10	3.4	1.5	1.5	9.7	2.0	3.5	5.0	3.2	M2.3 X 0.25
DTDX	10	+0.006	-0.015	12	4.2						6.3		M2.5 X 0.35
DTFX	12	+0.018	0	14	4.4						7.5		M3.0 X 0.35
DTEX	16	+0.007	-0.018	14	5.0	1.4	1.8	13.7	2.5	4.3	11.0	4.8	M4.0 X 0.35
		+0.021	0								11.0		
DTNX	20	+0.008	-0.021	16	5.3	1.5	2.0	15.7	3.5	5.0	13.2	5.3	

Type	Year + Month	4 Year	6 Year	Month	Days (0-3)	Days (0-9)	Blank
	DMB	DM	DMS	DMD	DMF	DME	DMN
	DTBB	DT	DTS	DTD	DTF	DTE	DTN
	DTBX	DTX	DTXS	DTDX	DTFX	DTEX	DTNX

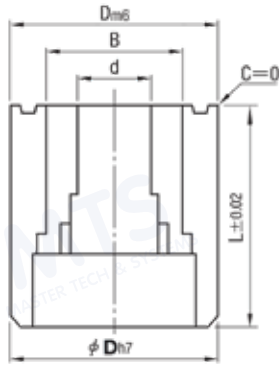
Date Insert ตัวซับอกวันที่ (DTBZ / DTEZ)

A

Standard Components
for Plastic Mold



Material SUS420



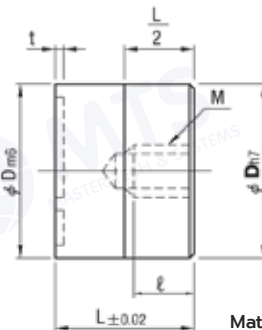
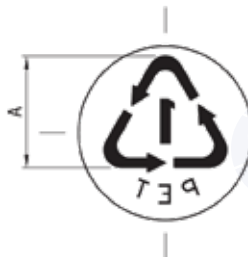
D	Dm6	Dh7	L	B	d
6	+0.012 +0.004	0 -0.012	10	3.8	1.8
8	+0.015 +0.006	0 -0.015		5.3	2.5
10	+0.015 +0.006	0 -0.015	12	6.4	3.2
16	+0.018 +0.007	0 -0.018	14	10.2	5.0

Code	Year + Month	D	Year
DTBZ		6	26 (for 2026)
		8	27 (for 2027)
		10	28 (for 2028)
		16	

Code	Day	D
DTEZ		6
		8
		10
		16

Order Code D x Year
DTBZ 6 x 26
DTEZ 8

Recycle Mark ตัวซับอกเครื่องหมายรีไซเคิล (RM□□)



Material SUS420

Code	D	L	M	ℓ	A	t
RM1J RM1E	8	10	M4	5	5	0.2
RM2J RM2E						
RM3J RM3E	10	12	M5	7	6	0.3
RM4J RM4G						
RM5J RM4F	16	14	M6	7	10	0.3
RM6J RM7E						
RM7J	20	16	M6	8	12	0.3

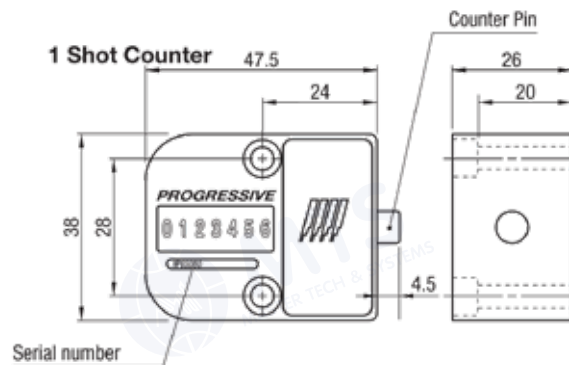
Order Code D
RM1E 10

Applicable Plastics	Polyethylene terephthalate	High density Polyethylene	Polyvinyl chloride	Low density Polyethylene		Polypropylene	Polystyrene	Others
US SPI standard	RM1J 	RM2J 	RM3J 	RM4J 		RM5J 	RM6J 	RM7J
	RM1E 	RM2E 	RM3E 	RM4G (Germany) 	RM4F (France) 	RM5J 	RM6J 	RM7E

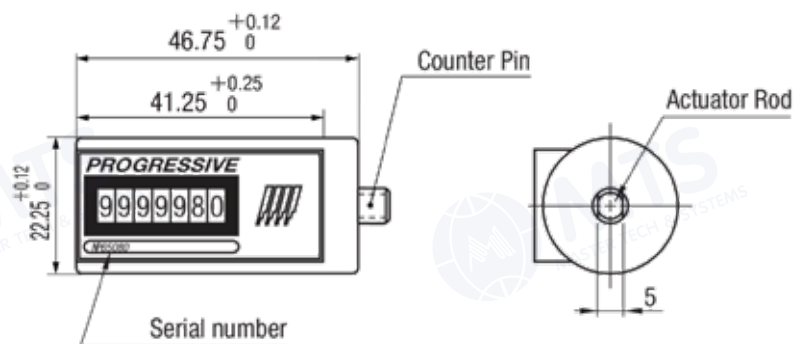
Mold Shot Counters

ตัวนับจำนวนแม่พิมพ์

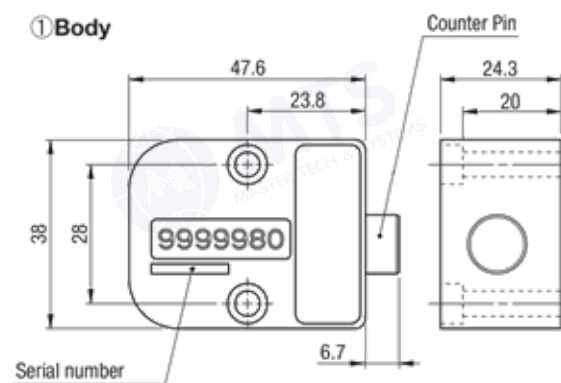
M-CVPL



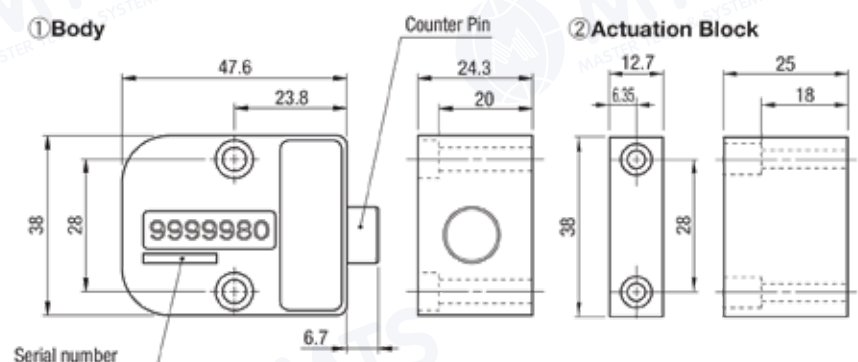
M-CVR



M-RCC



M-RCCB



Shim Plates

แผ่นซีบ (CS / SS)

A

Standard Components
for Plastic Mold



Code	CS
Material	Carbon Steel

Code	SS
Material	Stainless Steel

Code	d	Width x Thickness	
		12.7mm 2m	50mm 5m
CS	0.01	•	
	0.02	•	
	0.03	•	•
	0.04	•	•
	0.05	•	•
	0.06	•	•
	0.07	•	•
	0.08	•	•
	0.09	•	•
	0.10	•	•
	0.12	•	•
	0.15	•	•
	0.18	•	•
	0.20	•	•
	0.25	•	•
	0.30	•	•
	0.40	•	•
	0.50	•	•
	0.60	•	•
	0.70	•	•
	0.80	•	•
	0.90	•	•
	1.00	•	•

Code	d	Width x Thickness					
		12.7mm 2m	12.7mm 5m	50mm 5m	100mm 5m	150mm 5m	300mm 1m
SS	0.005	•	•				
	0.01	•	•	•	•		
	0.02	•	•	•	•		
	0.03		•	•	•		•
	0.04		•	•	•		•
	0.05		•	•	•	•	•
	0.06		•		•		•
	0.07		•				•
	0.08		•		•		•
	0.09		•				•
	0.10		•	•	•	•	•
	0.15		•	•	•		
	0.20		•	•	•	•	•
	0.25		•		•		•
	0.30		•	•	•	•	•
	0.40		•		•	•	•
	0.50		•		•	•	•
	0.60		•				•
	0.70		•				
	0.80		•				•
	0.90		•				
	1.00		•				•

Fitting Joints

ข้อต่อตรง (M-PC)



Code	M-PC
Material	Resin, Brass

Order Code Size
M-PC 4 - 01

Code	เกลียว	ขนาดสายลม				
		Ø4	Ø6	Ø8	Ø10	Ø12
M-PC	M5	M-PC4-M5	M-PC6-M5	-	-	-
	1/8"	M-PC4-01	M-PC6-01	M-PC8-01	M-PC10-01	M-PC12-01
	1/4"	M-PC4-02	M-PC6-02	M-PC8-02	M-PC10-02	M-PC12-02
	3/8"	-	M-PC6-03	M-PC8-03	M-PC10-03	M-PC12-03
	1/2"	-	M-PC6-04	M-PC8-04	M-PC10-04	M-PC12-04

Fitting Joints ข้อต่องอ (M-PL)



Code	M-PL
Material	Resin, Brass

Order Code Size
M-PL 4 - 01

Code	เกลียว	ขนาดสายลม				
		Ø4	Ø6	Ø8	Ø10	Ø12
M-PL	M5	M-PL4-M5	M-PL6-M5	-	-	-
	1/8"	M-PL4-01	M-PL6-01	M-PL8-01	M-PL10-01	M-PL12-01
	1/4"	M-PL4-02	M-PL6-02	M-PL8-02	M-PL10-02	M-PL12-02
	3/8"	-	M-PL6-03	M-PL8-03	M-PL10-03	M-PL12-03
	1/2"	-	M-PL6-04	M-PL8-04	M-PL10-04	M-PL12-04

Fitting Joints ข้อต่อตม (M-POC)

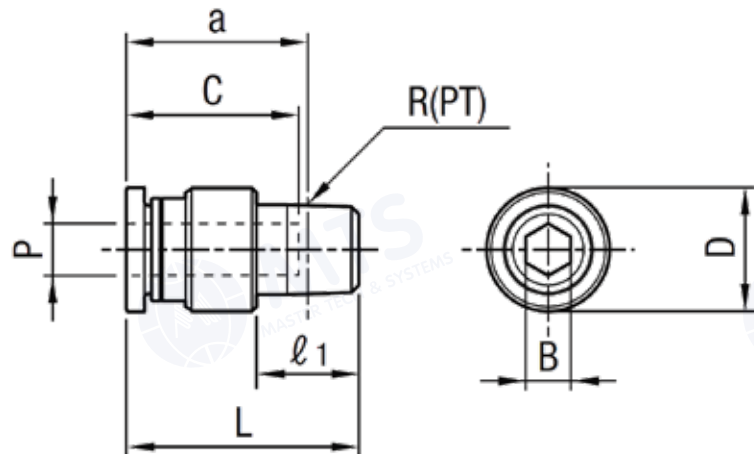
A

Standard Components
for Plastic Mold



Code	M-POC
Material	Resin + Brass with Nickel plating

Order Code Size
M-POC 4 - 01



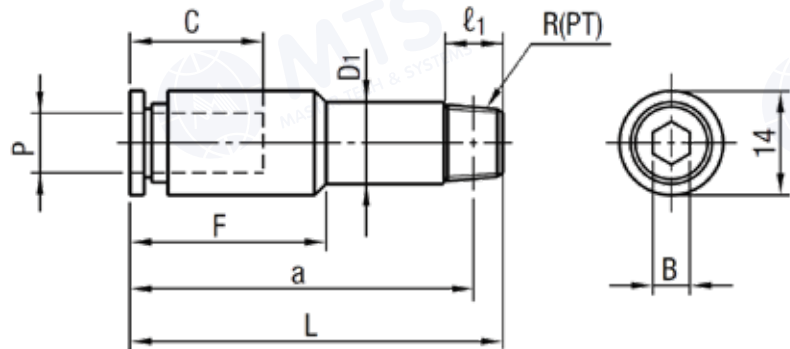
Code	No.	D	⬡B	L	a	ℓ ₁	R(PT)	Matching tubes	Tube inserting hole	
								Outer x Inner dia.	Hole dia. P	Depth C
M-POC	4-01	9.7	⬡2.5	20.0	16.0	8	1/8	4 x 2.5	4	14.9
	6-01	11.8	⬡4	22.1	18.1			6 x 4	6	17
	6-02	13.7		21.3	15.2	11	1/4			
	8-01	13.7	⬡5	25.9	21.9	8	1/8	8 x 6	8	18.2
	8-02		⬡6	25.1	19.1	11	1/4			
	8-03	16.8		22.2	15.9	12	3/8	10 x 7.5	10	20.7
	10-02	17.5		29.8	23.8	11	1/4			
	10-03			29.3	23.0	12	3/8	12 x 9	12	23.3
	12-03	20.8	⬡8	31.9	25.6					

Fitting Joints ข้อต่อตม (M-POCL)



Code	M-POCL
Material	Resin + Brass with Nickel plating

Order Code Size
M-POCL 8-01-L50



Code	No.	B	D1	L	a	F	l1	R(PT)	Matching tubes	Tube inserting hole	
									Outer x Inner dia.	Hole dia. P	Depth C
M-POCL	8-01-L 40	5	11	48.5	44.5	26.5	8	1/8	8 x 6	8	18
	8-01-L 50			58.5	54.5						
	8-01-L 60			68.5	64.5						
	8-01-L 70			78.5	74.5						
	8-01-L 80			88.5	84.5						
	8-01-L 90			98.5	94.5						
	8-01-L 100			108.5	104.5						
	8-01-L 110			118.5	114.5						
	8-02-L 50	14	14	58.5	52.5	-	11	1/4	8 x 6	8	18
	8-02-L 60			68.5	62.5						
	8-02-L 70			78.5	72.5						
	8-02-L 80			88.5	82.5						

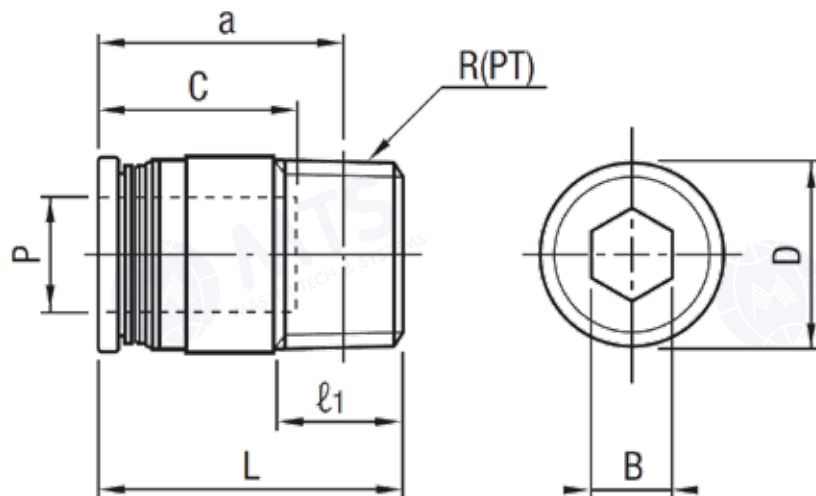
Fitting Joints

ข้อต่อตรง (M-120KC)



Code	M-120KC
Material	Resin + Brass with Nickel plating

Order Code Size
M-120KC 6-01-1F



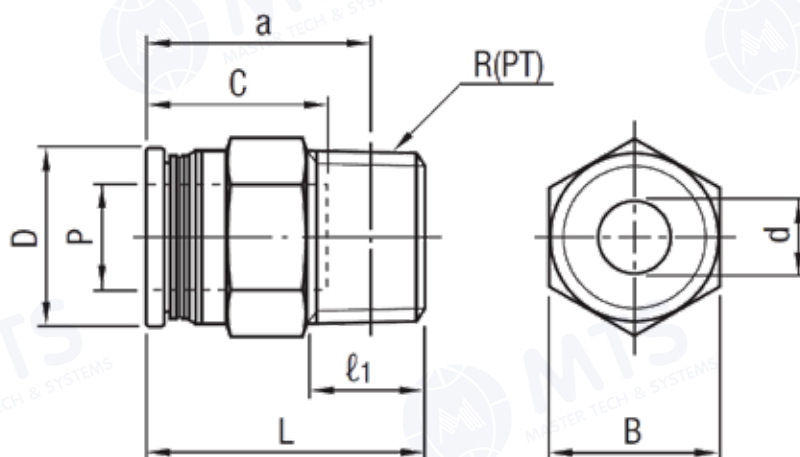
Code	No.	D	d	L	a	B	l1	R(PT)	Matching tubes	Tube inserting hole	
									Outer x Inner dia.	Hole dia. P	Depth C
M-120KC	6-01-1-F	11.4	4	22.2	18.2	12	8	1/8	6 x 4	6	16.6
	8-01-1-F	13.4	6	27.4	23.4	14	11	1/4	8 x 6	8	17.7
	8-02-1-F			26.1	20.1						
	10-01-1-F	16.4	8	30.1	26.1	17	8	1/8	10 x 7.5	10	20
	10-02-1-F			24.1	24.1		11	1/4			
	10-03-1-F			28.6	22.3		12	3/8			
	12-02-1-F	19.4	8.5	35.2	29.2	21	11	1/4	12 x 9	12	22.6
	12-03-1-F		9	31.2	24.9		12	3/8			

Fitting Joints ข้อต่อตรง (M-120KOC)



Code	M-120KOC
Material	Resin + Brass with Nickel plating

Order Code Size
M-120KOC 8-02-1-F

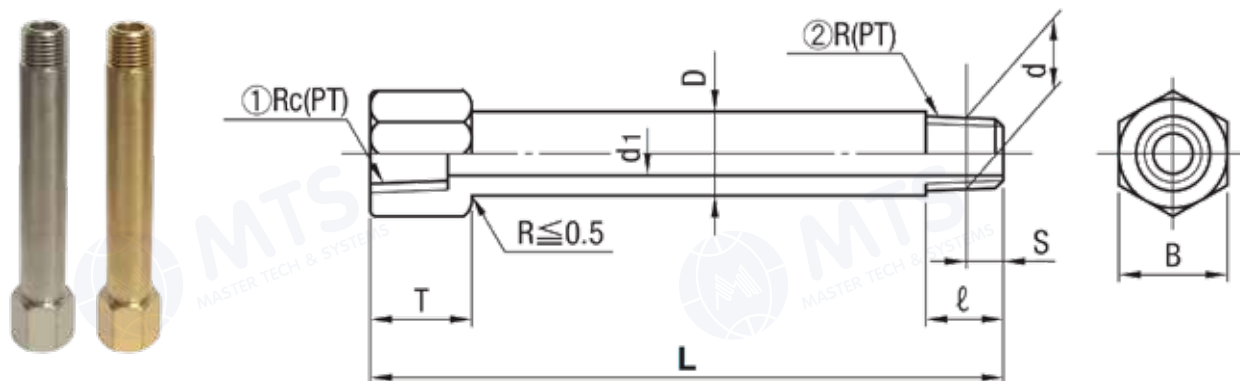


Code	No.	D	L	a	B	l1	R(PT)	Matching tubes	Tube inserting hole	
								Outer x Inner dia.	Hole dia. P	Depth C
M-120KOC	6-01-1-F	11.9	22.2	18.2	4	8	1/8	6 x 4	6	16.6
	8-01-1-F	13.9	27.4	23.4	5	11	1/4	8 x 6	8	17.7
	8-02-1-F		26.1	20.1	6					
	10-02-1-F	16.9	29.1	23.1	6	11	1/4	10 x 7.5	10	20
	12-03-1-F	20.8	31.2	24.9	8	12	3/8	12 x 9	12	22.6

Cooling Joints ข้อต่อ (JTW / JTWS)

A

Standard Components
for Plastic Mold

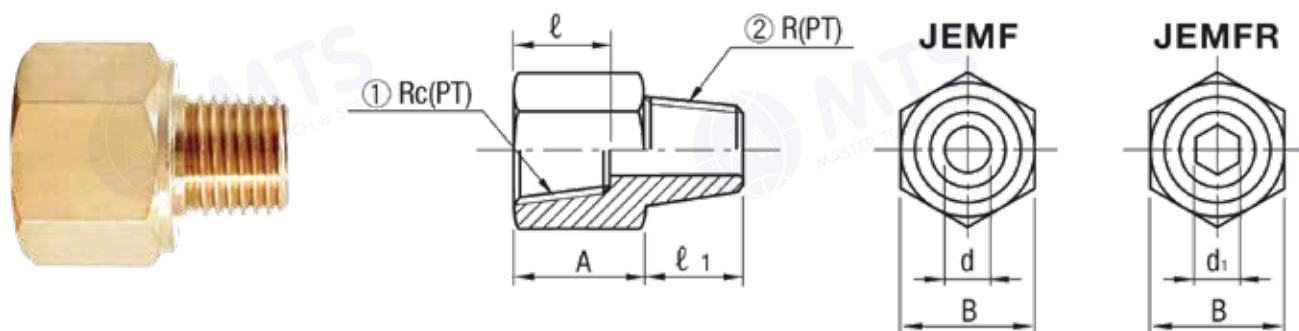


Code	Material
JTW	Brass
JTWS	SUS304

Order Code No. x L
JTWS 1 x 170

Code	No.	B	T	D	d1	l	S	d	① Rc(PT)	② R(PT)	L	
											5mm increments	10mm increments
JTWS	1	14	13	10.5	6	10	3.97	9.728	1/8	1/8	30 - 200	210 - 300
	2	17	16	13.8	8	10	6.01	13.157	1/4	1/4		
	3	21	17	17.3	10	12	6.35	16.662	3/8	3/8		

Cooling Joints ข้อต่อทองเหลือง (JEMF / JEMFR)



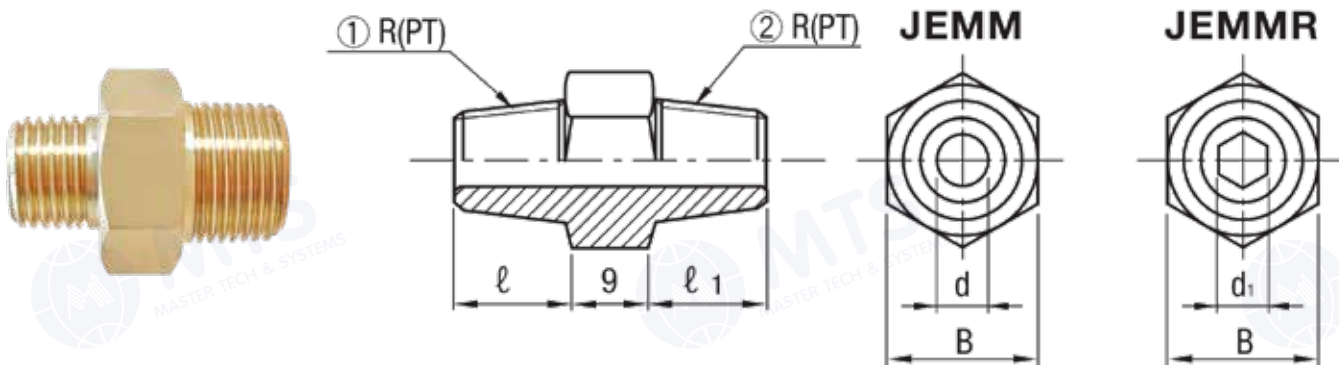
Code	JEMF / JEMFR
Material	Brass

Order Code No.
JEMF 21

Code	No.	A	B	d	⬡d ₁	ℓ	ℓ ₁	① Rc(PT)	② R(PT)				
JEMF JEMFR	11	14	17	6	⬡ 6	10	10	1/8	1/8				
	12	16							21	8	⬡ 8	12	10
	21							1/4					
	22		1/4										
	23		3/8										
	31		3/8	1/8									
	32			1/4									
	33			3/8									

Cooling Joints

ข้อต่อทองเหลือง (JEMM / JEMMR)



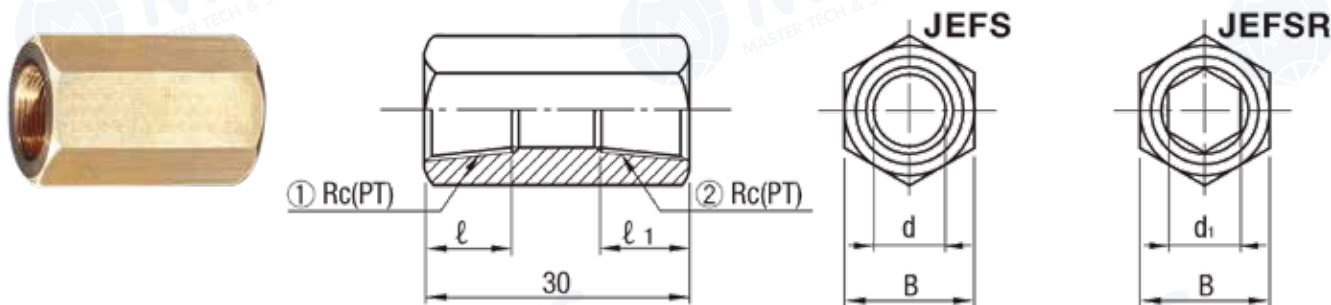
Code	JEMM / JEMMR
Material	Brass

Order Code No.
JEMM 22

Code	No.	B	d	⬡ d ₁	ℓ	ℓ ₁	① R(PT)	② R(PT)
JEMM JEMMR	11	14	6	⬡ 6	10	10	1/8	1/8
	12	17				12		1/4
	13	21				10		3/8
	22	17	8	⬡ 8	10	1/4	1/4	
	23	21			12		3/8	
	33		10	⬡ 10	12	12	3/8	3/8

Tapered Screw Conversion Plugs

ข้อต่อแปลงเกลียว (JEFS / JEFSR)



Code	JEFS / JEFSR
Material	Brass

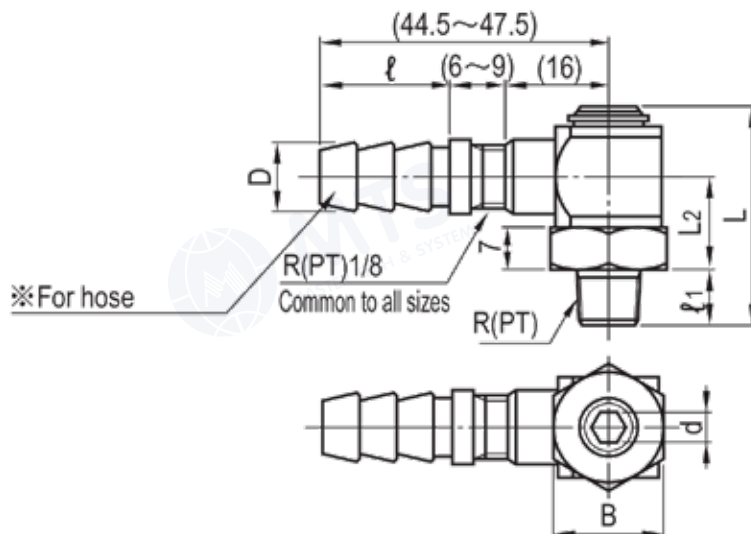
Order Code No.
JEFS 12

Code	No.	B	d	⬡ d ₁	ℓ	ℓ ₁	① R(PT)	② R(PT)
JEFS JEFSR	11	17	6	⬡ 6	10	10	1/8	1/8
	12			1/4				
	22	19	8	⬡ 8		12	1/4	3/8
	23							
	33	22	10	⬡ 10	12	3/8		

L-Shaped Swivel Joints ข้อต่อตัว L (LSN)

A

Standard Components
for Plastic Mold

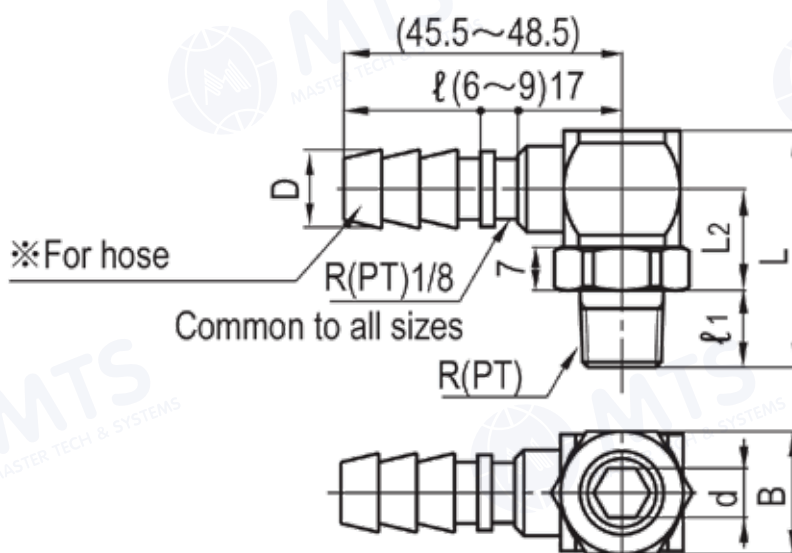


Code	LSN
Material	Brass

Order Code No.
LSN 1

Code	No.	Max. pressure MPa (kgf/cm ²)	For hose		L	L2	Allen side B	d1	R (PT)	l1
			D	l						
LSN	1	1.0 (10)	12.6	22.5	36.5	15.75	19	5	1/8	9.5
	2				39.5			6	1/4	12.5
	3				42.5			6	3/8	13.5

L-Shaped Swivel Joints ข้อต่อตัว L (LSNM)



Code	LSNM
Material	Brass

Order Code No.
LSNM 1

Code	No.	Max. pressure MPa (kgf/cm ²)	For hose		L	L2	Allen side B	d1	R (PT)	l1
			D	l						
LSNM	1	1.0 (10)	12.6	22.5	35.5	16.5	20	6	1/8	9.5
	2				38.5			8	1/4	12.5
	3				39.5			8	3/8	13.5

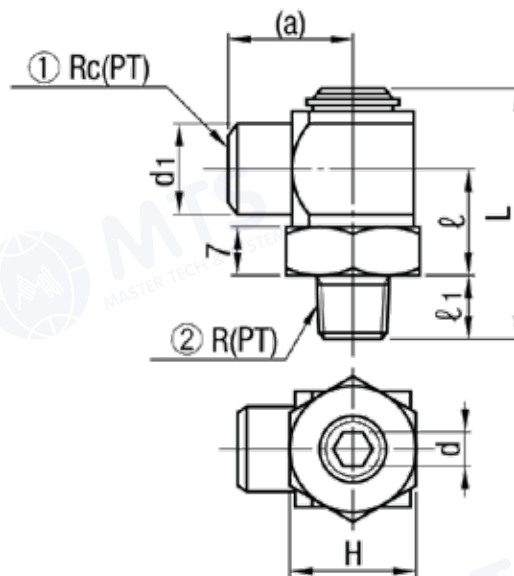
L-Shaped Swivel Joints

ข้อต่อ L (LSNF)



Code	LSNF
Material	Brass

Order Code No.
LSNF 1



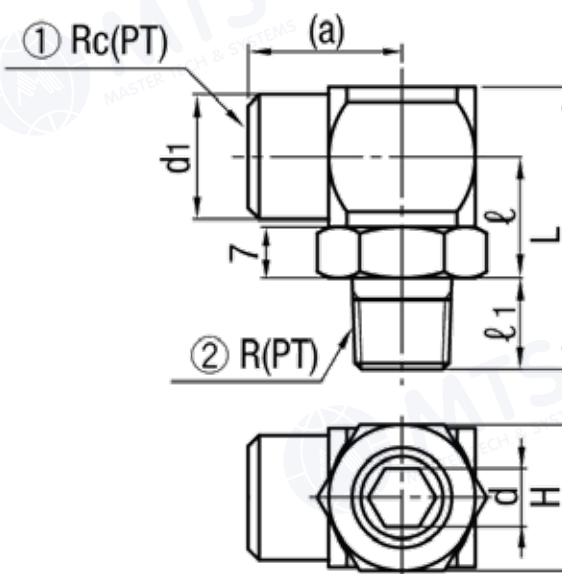
Code	No.	H	d1	⌀d1	L	l	l1	(a)	① Rc(PT)	② R(PT)
LSNF	1	19	14	⌀5	36.5	15.75	9.5	16	1/8	1/8
	2		17	⌀6	39.5		12.5	20.5	1/4	1/4
	3		19		42.5	17.75	13.5	25.5	3/8	3/8

L-Shaped Swivel Joints ข้อต่อ L (LSNFM)



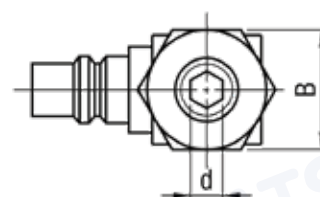
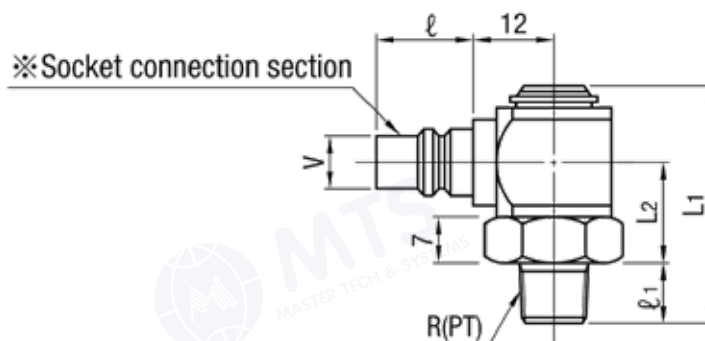
Code	LSNFM
Material	Brass

Order Code No.
LSNFM 1



Code	No.	H	d1	⌀d1	L	l	l1	(a)	① Rc(PT)	② R(PT)
LSNFM	1	20	14	⌀6	35.5	16.5	9.5	17	1/8	1/8
	2		17	⌀8	38.5		12.5	20.5	1/4	1/4
	3		19		39.5		13.5	24	3/8	3/8

L-Shaped Swivel Joints ข้อต่อตัว L (LSP)

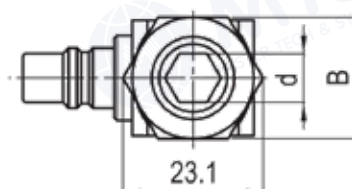
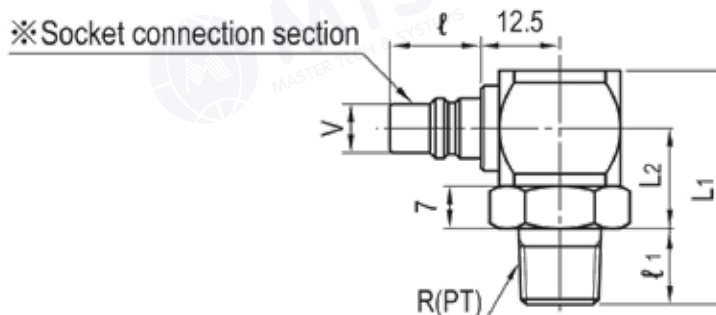


Code	LSP
Material	Brass

Order Code No.
LSP 1

Code	No.	Matching Sockets	Socket connection parts		L1	L2	Allen side B	⌀ d	R(PT)	ℓ1
			V	ℓ						
LSP	1	Mold Coupler Series	8	15	36.5	15.75	19	⌀6	1/8	9.5
	2	Socket hole diameter V = 8			39.5			⌀8	1/4	12.5
	3	Common to all sizes			42.5	17.75			3/8	13.5

L-Shaped Swivel Joints ข้อต่อตัว L (LSPM)



Code	LSPM
Material	Brass

Order Code No.
LSPM 1

Code	No.	Matching Sockets	Socket connection parts		L1	L2	Allen side B	⌀ d	R(PT)	ℓ1
			V	ℓ						
LSPM	1	Mold Coupler Series	8	15	35.5	16.5	20	⌀6	1/8	9.5
	2	Socket hole diameter V = 8			38.5			⌀8	1/4	12.5
	3	Common to all sizes			39.5				3/8	13.5

B

หมวดชิ้นส่วน แม่พิมพ์โลหะ

Standard Components for Press Dies

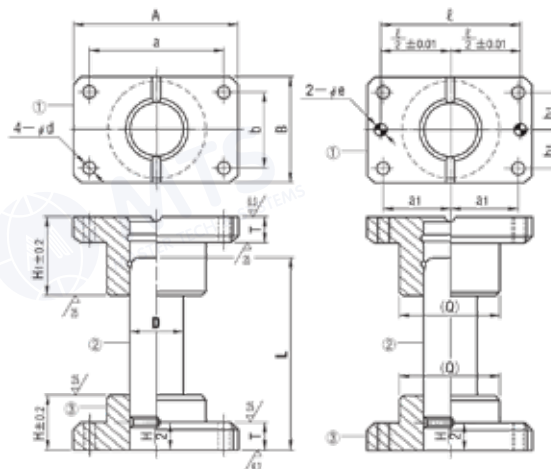


Guide Post Sets (GPS)

ไกด์โพสต์ ชุดธรรมดา



Order Code d x L
GPS 20 x 100



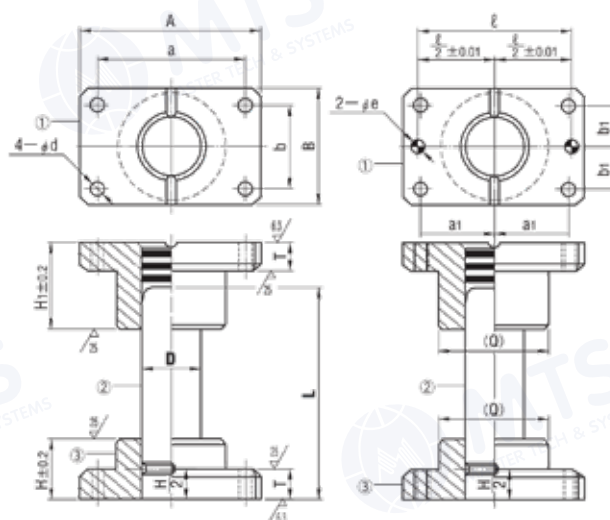
Code	d	L																	
GPS	20	80	90	100	110	120	130	140	150										
	25	80	90	100	110	120	130	140	150	160	170	180	200						
	32	100			110	120	130	140	150	160	170	180	200	220	250				
	38					120	130	140	150	160	170	180	200	220	250	280	300		
	50							160	170	180	200	220	250	280	300	350			
	60								180	200	220	250	280	300	350	400			
	80											250	280	300	350	400	450		
	100													300	350	400	450	500	

Guide Post Sets (GPSP)

ไกด์โพสต์ ชุดมีรูโหว่



Order Code d x L
GPSP 20 x 100



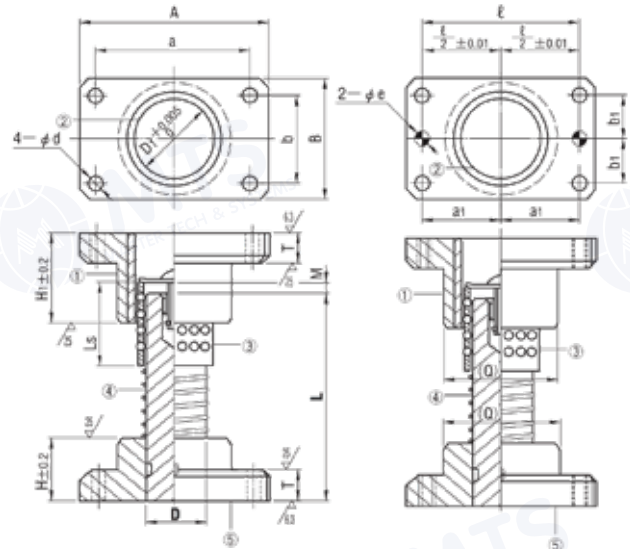
Code	d	L																	
GPSP	20	80	90	100	110	120	130	140	150										
	25	80	90	100	110	120	130	140	150	160	170	180	200						
	32	100			110	120	130	140	150	160	170	180	200	220	250				
	38					120	130	140	150	160	170	180	200	220	250	280	300		
	50								160	170	180	200	220	250	280	300	350		
	60									180	200	220	250	280	300	350	400		
	80											250	280	300	350	400	450		
	100													300	350	400	450	500	

Ball Bearing Guide Post Sets (GPSB)

ไกด์โพสท์แบบปลอกลูกปืนพลาสติก ชนิดธรรมดา



Order Code d x L
GPSB 20 x 100



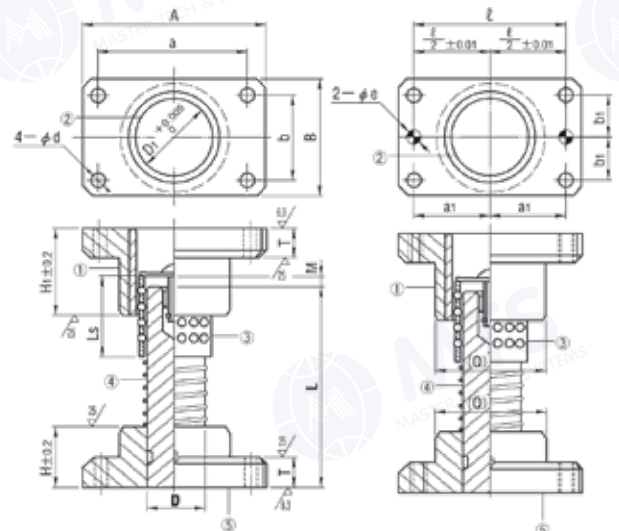
Code	d	L
GPSB	20	90 100 110 120 130 140 150 160
	25	90 100 110 120 130 140 150 160 170 180 200
	32	110 120 130 140 150 160 170 180 200 220 240 250 260
	38	130 140 150 160 170 180 200 220 240 250 260 280 300
	50	170 180 200 220 240 250 260 280 300 350

Ball Bearing Guide Post Sets (GPBP)

ไกด์โพสท์แบบปลอกลูกปืนพลาสติก ชนิดมีรูโดเวล

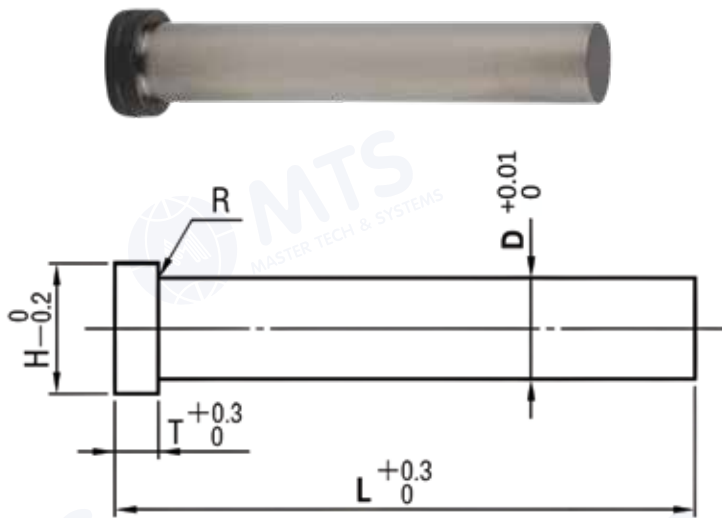


Order Code d x L
GPBP 20 x 100



Code	d	L
GPBP	20	90 100 110 120 130 140 150 160
	25	90 100 110 120 130 140 150 160 170 180 200
	32	110 120 130 140 150 160 170 180 200 220 240 250 260
	38	130 140 150 160 170 180 200 220 240 250 260 280 300
	50	170 180 200 220 240 250 260 280 300 350

Straight Punches พืนซ์ตรง SKD11 (PD)

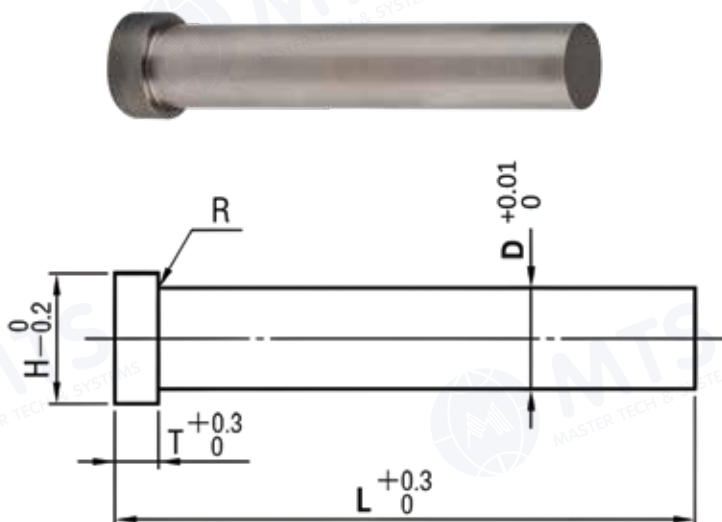


Code	PD
Material	SKD11
Hardness	60 - 62 HRC

Order Code D x L
PD 5 x 100

Code	D	H	L
1	2		40 50 60 70 80 90 100
1.5	3		
2	4		
2.5	4.5		
3	5		
3.5	5.5		
4	7		
4.5	6.5		
5	8		
5.5	7.5		
6	9		
6.5	8.5		
7	10		
8	11		
9	12		
10	13		
11	14		
12	15		
13	16		
14	17		
15	18		
16	19		
18	21		
20	23		
25	28		

Straight Punches พืนซ์ตรง SKH51 (PH)



Code	PH
Material	SKH51
Hardness	61 - 64 HRC

Order Code D x L
PH 25 x 100

Code	D	H	L
1	2		40 50 60
1.5	3		
2	4		40 50 60 70 80
2.5	4.5		
3	5		
3.5	5.5		
4	7		
4.5	6.5		40 50 60 70 80 90 100
5	8		
5.5	7.5		
6	9		
6.5	8.5		
7	10		
8	11		
9	12		
10	13		
11	14		
12	15		
13	16		
14	17		
15	18		
16	19		
18	21		
20	23		
25	28		

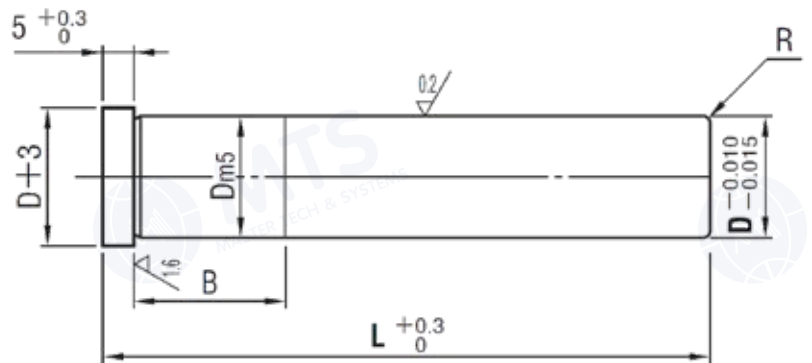
Stripper Guide Pins

สตริปเปอร์ไกด์พิน (SGPH)



Code	SGPH
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
SGPH 25 x 100



Code	D	Dm5	R	B	L
SGPH	8	8	1.0	10	40 50 60 70 80
	10	10		13	40 50 60 70 80 90 100
	13	13	1.5	16	40 50 60 70 80 90 100 110 120
	16	16		20	50 60 70 80 90 100 110 120 130 140
	20	20	2.0	25	60 70 80 90 100 110 120 130 140
	25	25		28	70 80 90 100 110 120 130 140

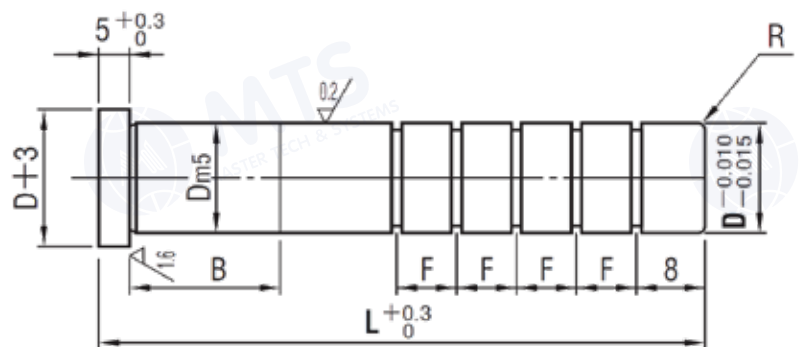
Stripper Guide Pins

สตริปเปอร์ไกด์พิน (SGOH)



Code	SGOH
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
SGOH 20 x 100



D/L	Number of grooves						
	40~	50~	70~	80~	90~	160~	180~
8	2	3	4	5	6	-	-
10	2	3	4	5	6	-	-
13	2	3	4	5	6	7	8
16	2	3	4	5	6	7	8
20	2	3	4	5	6	7	8
25	2	3	4	5	6	7	8

Code	D	Dm5	R	B	L
SGOH (With Oil Grooves)	8	8	1.0	10	40 50 60 70 80
	10	10		13	40 50 60 70 80 90 100
	13	13	1.5	16	40 50 60 70 80 90 100 110 120
	16	16		20	50 60 70 80 90 100 110 120 130 140
	20	20	2.0	25	60 70 80 90 100 110 120 130 140
	25	25		28	70 80 90 100 110 120 130 140

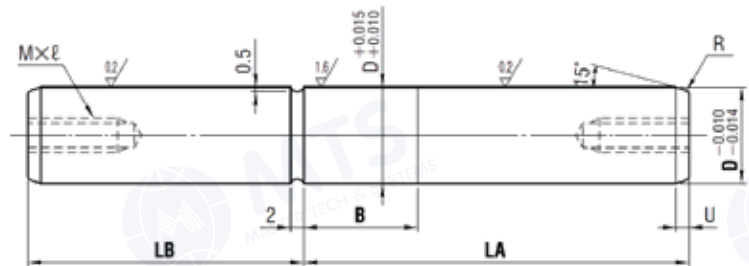
High Rigidity Stripper Guide Pins

สตริปเปอร์ไกด์พินแบบแข็งแรงสูง (SGPWS)



Code	SGPWS
Material	SUJ2
Hardness	58 HRC ~

Order Code D x LA x LB
SGPWS 25 x 90 x 60 - 90



Code	D	U	R	M x ϕ Pitch	LA	LB 10mm increments	B 1mm increments	
SGPWS (Straight)	16	3	2	M6 x 25 P1.0	70	30 - 60	10 - 30	
					80	30 - 70		
					90	40 - 80		
	20			M8 x 25 P1.25	80	40 - 70		
					90	40 - 70		
					100	50 - 80		
					90	50 - 70		
		25	4		3	100		50 - 80
						110		60 - 90

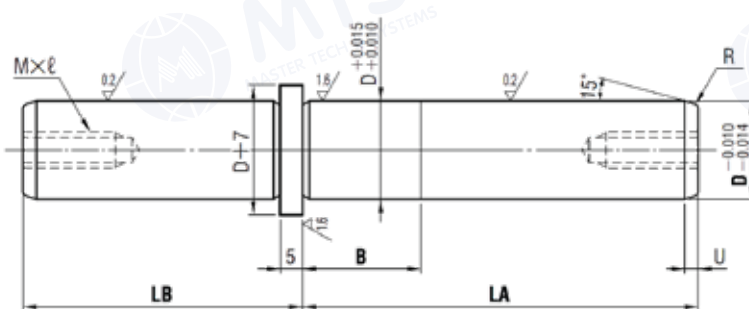
High Rigidity Stripper Guide Pins

สตริปเปอร์ไกด์พินแบบแข็งแรงสูง (SGPWH)



Code	SGPWH
Material	SUJ2
Hardness	58 HRC ~

Order Code D x LA x LB
SGPWH 25 x 90 x 40 - 70



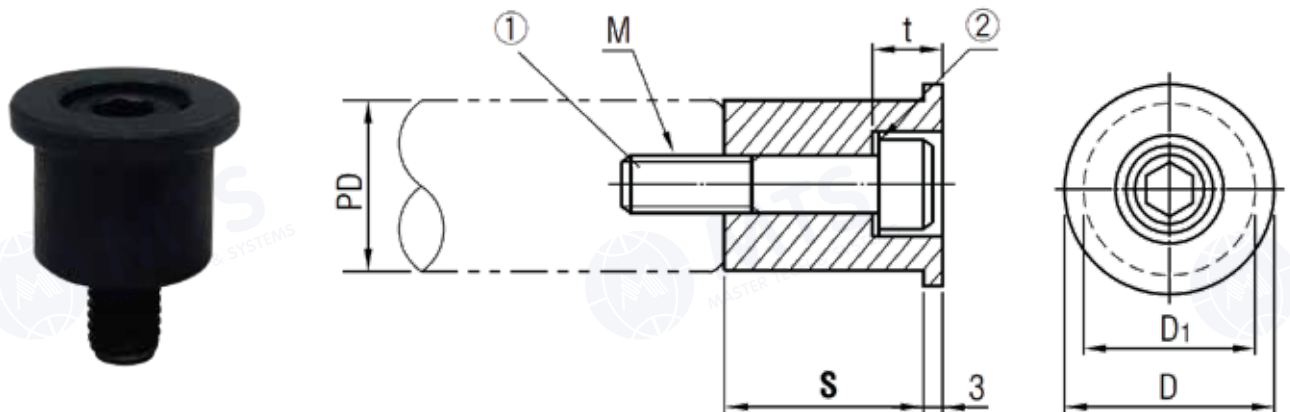
Code	D	U	R	M x ϕ Pitch	LA	LB 10mm increments	B 1mm increments	
SGPWH (Flanged)	13	2	1.5	M5 x 22 P0.8	60	30 - 50	10 - 30	
					70	30 - 60		
					80	40 - 60		
	16		3	2	M6 x 25 P1.0	70		30 - 60
						80		30 - 70
						90		40 - 80
	20	3		2	M8 x 25 P1.25	80		40 - 70
						90		40 - 70
						100		50 - 80
	25		4	3	M8 x 25 P1.25	90		50 - 70
						100		50 - 80
						110		60 - 90

B

Standard Components
for Press Dies

Stoppers For Ball Cages

สต็อปเปอร์สำหรับปลอกลูกปืน (SSTK)



Code	SSTK
Material	S45C
Surface	Black oxide
A	①CB ②Spring washer

Order Code No. x S
SSTK 25 x 30 - 60

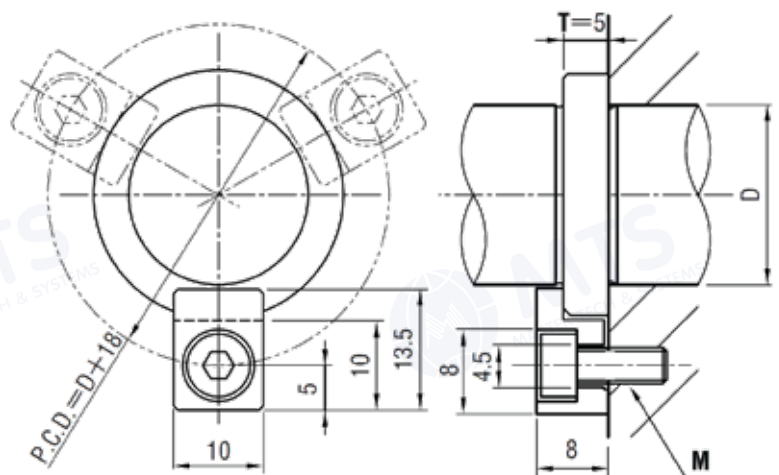
Code	No.	S 1mm increments	D	D1	t	M
SSTK	13	10 - 20	15	12	6.5	5
	16	10 - 20	17.3	15	8.5	6
	20	11 - 25	24	19	11	8
	25	11 - 30	29	24		

Clamps For Stripper Guide Pins

แคลมป์สำหรับสตริปเปอร์ไกด์พิน (FCLP)



Code	T	M
FCLP	5	4



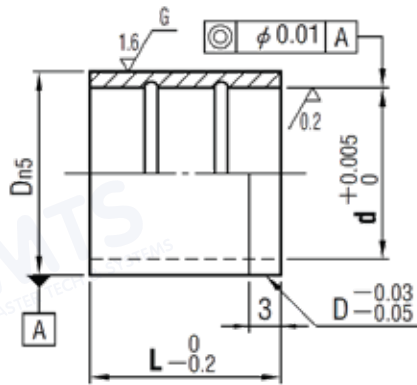
Code	FCLP
Material	S45C
Surface	Black oxide
A	CB4-10

Order Code T x M
SCLP 5 x 4

Stripper Guide Bushings

สตริปเปอร์ไกด์บุชซิ่ง

SGBA

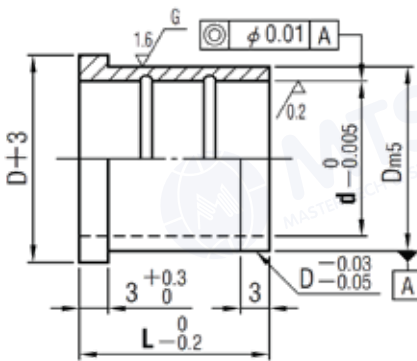


Code	d	Dm5	L
SGBA	8	12	10 13 16 20
	10	14	10 13 16 20 25
	13	18	13 16 20 25
	16	22	16 20 25 30
	20	25	20 25 30
	25	32	25 30 35

Code	SGBA
Material	SUI2
Hardness	58 HRC ~

Order Code d x L
SGBA 25 x 35

SGBH

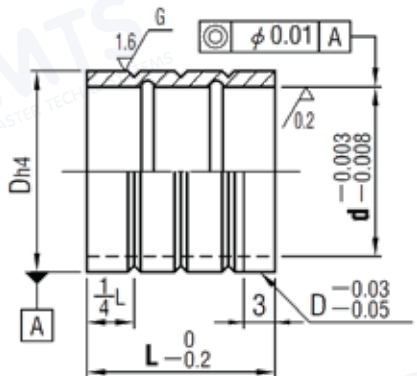


Code	d	Dm5	L
SGBH	8	12	10 13 16 20
	10	14	10 13 16 20 22 25
	13	18	13 16 20 22 25 30 35
	16	22	13 16 20 22 25 30 35
	20	25	16 20 22 25 30 35
	25	32	20 22 25 30 35

Code	SGBH
Material	SUI2
Hardness	58 HRC ~

Order Code d x L
SGBH 25 x 35

SGBL

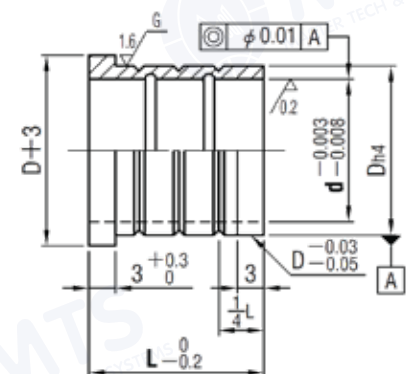


Code	d	Dh4	L
SGBL	8	12	10 13 16 20
	10	14	10 13 16 20 22 25
	13	18	13 16 20 22 25 30 35
	16	22	13 16 20 22 25 30 35
	20	25	16 20 22 25 30 35
	25	32	20 22 25 30 35

Code	SGBL
Material	SUI2
Hardness	58 HRC ~

Order Code d x L
SGBL 25 x 35

SGBT



Code	d	Dh4	L
SGBT	8	12	10 13 16 20
	10	14	10 13 16 20 22 25
	13	18	13 16 20 22 25 30 35
	16	22	13 16 20 22 25 30 35
	20	25	16 20 22 25 30 35
	25	32	20 22 25 30 35

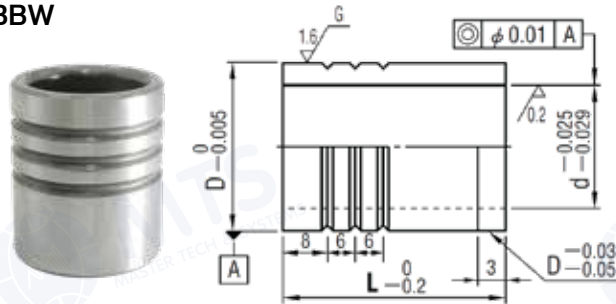
Code	SGBT
Material	SUI2
Hardness	58 HRC ~

Order Code d x L
SGBT 25 x 35

Stripper Guide Bushings

สตริปเปอร์ไกด์บุชซิ่ง

SGBBW

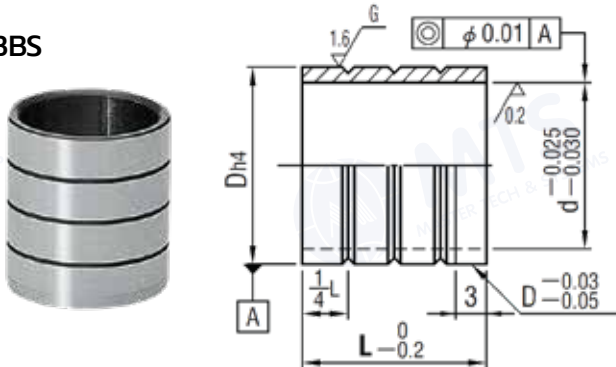


Code	d	PD	D	L
SGBBW	17	13	24	30 35
	20	16	28	35 40
	26	20	34	40 45 50
	31	25	40	45 50 60

Code	SGBBW
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
SGBBW 20 x 35

SGBBS

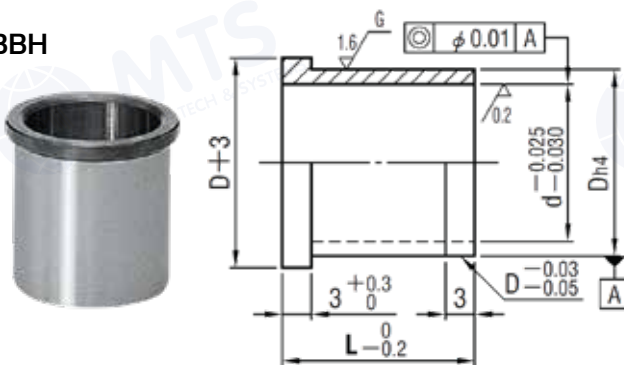


Code	d	PD	Dh4	L
SGBBS	14	10	18	20 25 30
	17	13	22	20 25 30
	20	16	26	25 30 35
	26	20	31	25 30 35 40
	31	25	37	35 40

Code	SGBBS
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
SGBBS 20 x 40

SGBBH



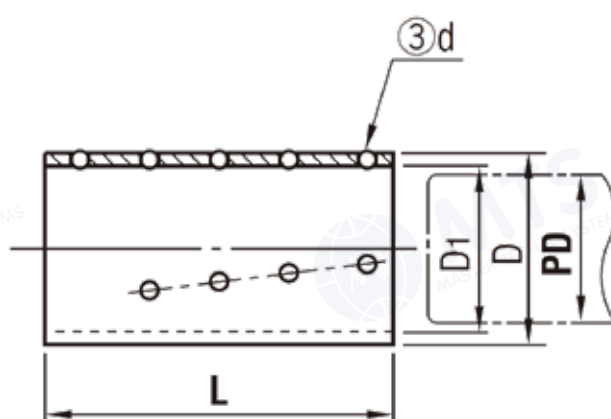
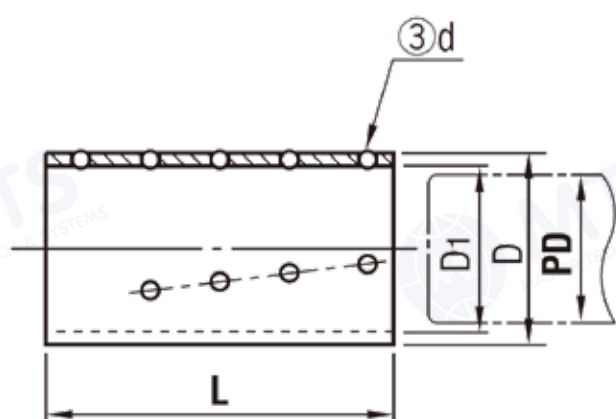
Code	d	PD	Dh4	L
SGBBH	14	10	18	20 25 30
	17	13	22	20 25 30
	20	16	26	25 30 35
	26	20	31	25 30 35 40
	31	25	37	35 40

Code	SGBBH
Material	SUJ2
Hardness	58 HRC ~

Order Code d x L
SGBBH 20 x 40

Ball Cages

ปลอกลูกปืนอลูมิเนียม / เรซิน



Code	MBSH / MBJH
Material	SUJ2
Hardness	62 - 67 HRC

Order	Code	d x L
	MBSH	20 x 50
	MBJH	32 x 110

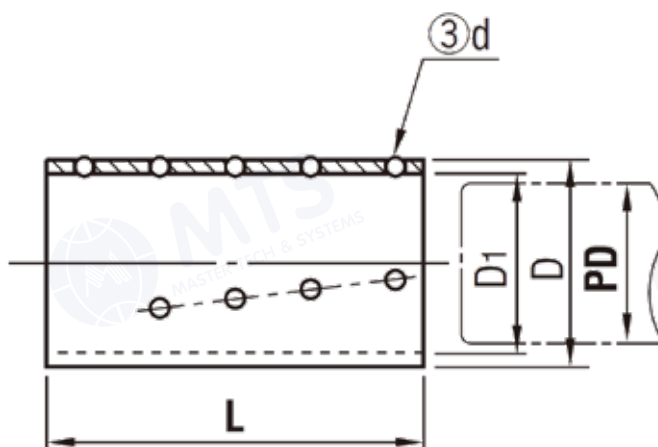
Code	MBS / MBJ
Material	SUJ2
Hardness	62 - 67 HRC

Order	Code	d x L
	MBS	20 x 50
	MBJ	32 x 110

Code	PD	L	PD		Outer diameter ØD	Inner diameter ØD ₁	Ball diameter ød	Number of balls			
			Post	diameter				MBSH MBJH	MBS MBJ	Ratio	
MBSH (Aluminum) MBJH (Rasin) MBS (Aluminum) MBJ (Rasin)	20	50	20	+0.020	25.5	20.5	3	165	96	1.72	
	22	50	22		+0.015	27.5		22.5	180	112	1.61
		60							228	140	1.63
	25	60	25			30.5		25.5	266	160	1.66
		75		350					208	1.68	
	28	60	28	+0.025	35.5	28.5	4	204	112	1.82	
		75						252	154	1.64	
	32	75	32		+0.020	39.5		32.5	294	176	1.67
		90							350	208	1.68
	38	75	38	+0.030		47.5		38.5	5	238	144
		90					280			176	1.67
	45	90	45		+0.025	54.5	45.5	320		198	1.70
		110						400		234	1.71
	50	90	50	+0.035		59.5	50.5	360		220	1.72
		110						450	260	1.73	
	60	90	60		+0.030	69.5	60.5	400	242	1.74	
		110						500	286	1.75	

Ball Cages

ปลอกลูกปืนทองเหลือง (EMBS)

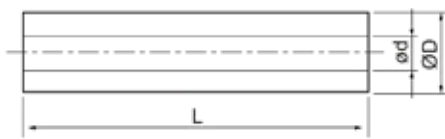


Code	EMBS
Material	SUJ2
Hardness	62 - 67 HRC

Order Code d x L
EMBS 16.5 x 50

Code	No.	d1	d	L	Ball Dia.
EMBS	8	8.5	11.5	25 30 35	2
	10	10.5	13.5	25 30 35 40	
	13	13.5	16.5	35 40 45 50 55 60 70	
	16	16.5	19.5	35 40 45 50 55 60 65 70	
	20	20.5	23.5	35 40 45 50 55 60 65 70	
	25	25.5	28.5	35 40 45 50 55 60 65 70	
	30	30.5	33.5	35 40 45 50 55 60 65 70	

Urethanes ยูรีเทนแท่งกลม



Order Code D x L
UTS 60 x 300



สีเหลืองแบบมีรู



สีเหลืองแบบตัน



Code	D	d	L
UTH	15	6.5	300
	20	8.5	
	25	11	
	30	13	
	35	13	
	40	15	
	50	16	
	60	18	
	80	20	
	100	30	
	20	8.5	500
	25	11	
	30	14	
	35	14	
	40	14	
	50	14	
	60	14	
	80	22	
	100	22	

Code	D	L
UTS	10	300
	12	
	15	
	20	
	25	
	30	
	35	
	40	
	50	
	60	
	80	
	100	
	20	500
	25	
	30	
	35	
	40	
	50	
	60	
	80	
	100	

สีดำแบบมีรู



สีดำแบบตัน

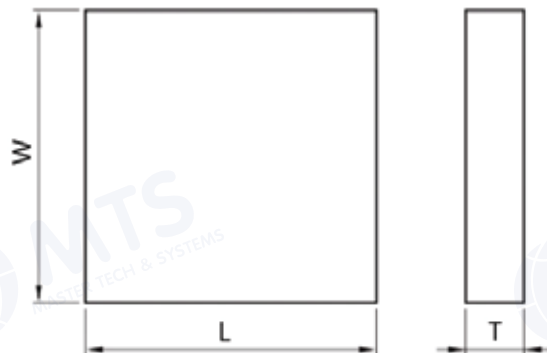
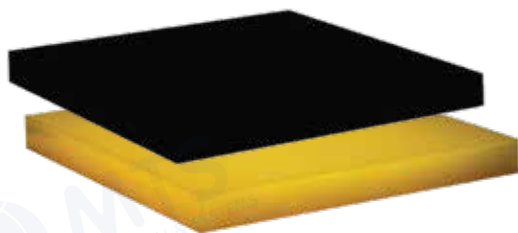


Code	D	d	L
HUTH	10	-	-
	15	7	300
	20	8.5	
	25	11	
	30	14	500
	40	14	
	50	14	
	60	14	
	80	22	
	100	22	

Code	D	L
HUTS	10	300
	15	
	20	
	25	500
	30	
	40	
	50	
	60	
	80	
	100	

Urethanes

ยูรีเทนแผ่น



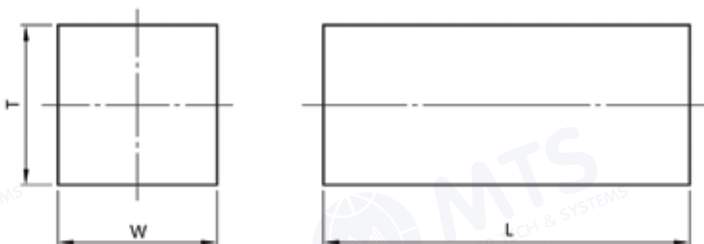
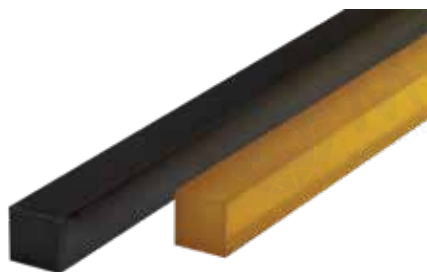
Order Code T x W x L
HUE 5 x 300 x 1,000

Code	T	W x L
HUE (สีเหลือง) HUTE (สีดำ)	5	300 x 300
	10	
	15	
	20	
	25	
	30	
	35	
	40	
	50	
	60	
	70	
	80	
	100	

Code	T	W x L
HUE (สีเหลือง) HUTE (สีดำ)	1	300 x 1,000
	2	
	3	
	4	
	5	
	6	

Code	T	W x L
HUE (สีเหลือง) HUTE (สีดำ)	8	500 x 500
	10	
	15	
	20	
	25	
	30	
	40	
	50	

Urethanes ยูรีเทนแท่งเหลี่ยม



Order Code T x W x L
URYT 25 x 25 x 300

Code	T	W	L
URYT (สีเหลือง) URBT (สีดำ)	25	25	300
			500
	50	50	300
			500
	50	75	300
			500

C

หมวดสปริง

Die Springs



High Deflection Springs สปริงสีขาว (TR)



Order Code OD x L
TR 32 x 100

Code	OD	ID	L																	
 TR	14.5	9	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125		
	17	11	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150		
	21	13	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150			
	26	16.5	30	35	40	45	50	55	60	65	70	75	80	90	100	110	125	150	175	200
	32	21	40	45	50	60	70	80	90	100	110	125	150	175	200	250	300			
	39	26	40	45	50	60	70	80	90	100	110	125	150	175	200	250	300			
	46	32	50	60	70	80	90	100	110	125	150	175	200	250	300					

High Deflection Springs สปริงสีม่วง (TY)



Order Code OD x L
TY 19 x 90

Code	OD	ID	L																	
TY	14.5	9	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125		
	17	11	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150		
	21	13	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150			
	26	16.5	30	35	40	45	50	55	60	65	70	75	80	90	100	110	125	150	175	200
	32	21	40	45	50	60	70	80	90	100	110	125	150	175	200	250	300			
	39	26	40	45	50	60	70	80	90	100	110	125	150	175	200	250	300			
	46	32	50	60	70	80	90	100	110	125	150	175	200	250	300					

High Deflection Springs สปริงสีเขียวอ่อน (MRS)



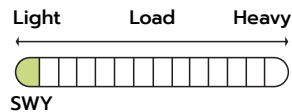
Order Code OD x L
MRS 31 x 100

Code	OD	ID	L															
MRS	17	11	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150
	21	14	30	35	40	45	50	55	60	65	70	75	80	90	100	110	125	150
	26	17	30	35	40	45	50	55	60	65	70	75	80	90	100	110	125	150
	31	21	40	50	60	70	80	90	100	110	125	150						
	39	26	40	50	60	70	80	90	100	110	125	150	175	200				
	46	32	40	50	60	70	80	90	100	110	125	150	175	200	250			

Ultra High Deflection Springs สปริงสี่เขี้ยวอ่อน (SWY)



Order Code OD x L
SWY 30 x 100

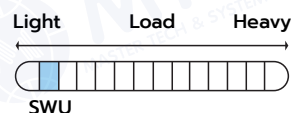


Code	OD	ID	L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
SWY	11	7	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Ultra Deflection Springs สปริงสี่ฟ้าวอ่อน (SWU)



Order Code OD x L
SWU 42 x 100

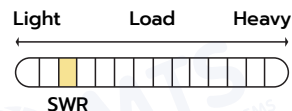


Code	OD	ID	L																															
SWU	10.5	6	15	20	25	30	35	40	45	50	55	60	65	70	75	80																		
	12.5	7	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100																
	14.5	8.5	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	150												
	17	10.5	20			25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	150					175						
	21	13.5	25			30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	175					200				
	26	16.5	30			35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	175					200 225 250					
	31	21	35			40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	160	170	175	180	190	200	250 300					
	37	26	40			45	50	55	60	65	70	75	80	90	100	110	120	130 140 150 160 170					180 190 200 225 250 275 300											
43	31	50			60		70		80		90	100	110	120	130 140 150 160 170					180 190 200 225 250 275 300														

High Deflection Springs สปริงสีขาวงาช้าง (SWR)



Order Code OD x L
SWR 50 x 120

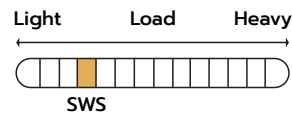


Code	OD	ID	L																															
SWR	10.5	6	15	20	25	30	35	40	45	50	55	60	65	70	75	80																		
	12.5	7	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100																
	14.5	8.5	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150														
	17	10.5	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175														
	21	13.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	175	200										
	26	16.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	175	200	225	250								
	31	21	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	160	170	175	180	190	200	250	300						
	37	26	35	40	45	50	55	60	65	70	75	80	90	100	110	120	125	130	140	150	160	170	175	180	190	200	250	300						
	43	31	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	225	250	275	300												
	46	33	50	60	70	80	90	100	110	120	125	130	140	150	175	200	225	275	300															
50	36	50	60	70	80	90	100	110	120	130	140	150	175	200	225	250	275	300	350	400														

Medium Deflection Springs สปริงสี่เหลี่ยม (SWS)



Order Code OD x L
SWS 46 x 130

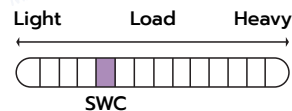


Code	OD	ID	L																											
SWS	10.5	5.5	20 25 30 35 40 45 50 55 60 65 70 75 80																											
	12.5	6.5	20 25 30 35 40 45 50 55 60 65 70 75 80																											
	14.5	8.5	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100														125							150						
	17	10.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100							125							150													
	21	13.5	30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 130 140 150							175							200													
	26	16.5	30 35 40 45 50 55 60 65 70 75 80 90 100 110 120 125 130 140 150							175							200 225 250													
	31	21	40 45 50 55 60 65 70 75 80 90 100 110 120 125 130 140 150 160 170 175 180 190 200							250							300													
	37	26	40 45 50 55 60 65 70 75 80 90 100 110 120 125 130 140 150 160 170 175 180 190 200							250							300													
	44.5	31	50 60 70 80 90 100 110 120							130 140 150 160 170							180 190 200 225 250 275 300													
	46	33	50 60 70 80 90 100 110 120 125 130							140 150 175							200 225 250 275 300													
	52	37	60 70 80 90 100 110 120							130 140 150 175							200 225 250 275 300													

Medium Deflection Springs สปริงสี่ม้วนอ่อน (SWC)



Order Code OD x L
SWC 46 x 130

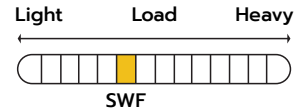


Code	OD	ID	L																	
SWC	6	3	15	20	25	30	35	40												
	8	4.6	15	20	25	30	35	40	45	50	55	60	65	70	75	80				
	10	5.8	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90			
	12	7.4	20	25	30	35	40	45	50	55	60	65	70	75	80	90				
	14	8.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100				
	16	9.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125			
	18	11	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125			
	20	12.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150		
	22	13.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150		
	25	16	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200
	27	17.5	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200
	30	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200

Yellow Die Springs สปริงสีเหลือง (SWF)



Order Code OD x L
SWF 30 x 100

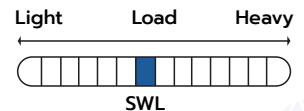


Code	OD	ID	L																							
SWF	6	3	10 15 20 25 30 35 40																							
	8	4	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90																							
	10	5	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																						300	
	12	6	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																						300	
	14	7	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																							
	16	8	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																						300	
	18	9	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																							
	20	11	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																						300	
	22	11	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																							
	25	13.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																						300	
	27	13.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																							
	30	16	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																						300	
	35	19	35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																						250 300	
	40	22	40 45 50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300																							
	50	27.5	50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300 350																							
60	33	60 70 80 90 100 125 150 175 200 225 250 275 300 350 400																								
70	38.5	100 125 150 200 225 250																						300		

Blue Die Springs สปริงสีน้ำเงิน (SWL)



Order Code OD x L
SWL 30 x 120

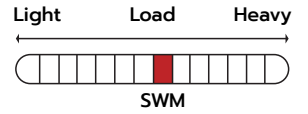


Code	OD	ID	L																											
SWL	8	4	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90												
	10	5	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																	300										
	12	6	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																	300										
	14	7	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																											
	16	8	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																	300										
	18	9	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																											
	20	10	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																	300										
	22	11	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																											
	25	12.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																	300										
	27	13.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																											
	30	15	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																	250	300									
	35	17.5	40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																	250	300									
	40	20	40 45 50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300																											
	50	25	50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300 350																											
	60	30	60 70 80 90 100 125 150 175 200 225 250 275 300 350 400																											
70	38.5	100 125 150 200 225 250 300																												

Red Die Springs สปริงสีแดง (SWM)



Order Code OD x L
SWM 30 x 100

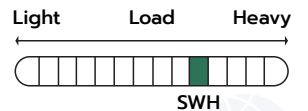


Code	OD	ID	L																							
SWM	8	4	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90								
	10	5				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100						
	12	6				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125					
	14	7					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150				
	16	8					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175			
	18	9					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200		
	20	10					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	22	11					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	25	12.5					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	27	13.5					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	30	15					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	35	17.5						35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	300	
	40	20						40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	225	250	275	300
	50	25							50	55	60	65	70	75	80	90	100	125	150	175	200	225	250	275	300	350
	60	30								60	70	80	90	100	125	150	175	200	225	250	275	300	350	400		

Green Die Springs สปริงสีเขียว (SWH)



Order Code OD x L
SWH 30 x 120

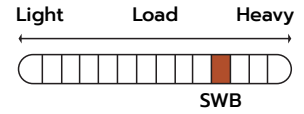


Code	OD	ID	L																							
SWH	8	4	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90								
	10	5				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100						
	12	6				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125					
	14	7					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150				
	16	8					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175			
	18	9					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200		
	20	10					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	22	11					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	25	12.5					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	27	13.5					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	30	15					25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	
	35	17.5						40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	300		
	40	20						40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	225	250	275	300
	50	25							50	55	60	65	70	75	80	90	100	125	150	175	200	225	250	275	300	350
	60	30								60	70	80	90	100	125	150	175	200	225	250	275	300	350	400		

Brown Die Springs สปริงสีน้ำตาล (SWB)



Order Code OD x L
SWB 30 x 100

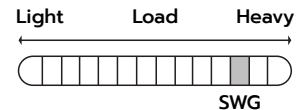


Code	OD	ID	L																							
SWB	8	4	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90								
	10	5	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																							
	12	6	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100																							
	14	7	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																							
	16	8	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																							
	18	9	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125																							
	20	10	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																							
	22	11	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175																							
	25	12.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																							
	27	13.5	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																							
	30	15	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																							
	35	17.5	40 45 50 55 60 65 70 75 80 90 100 125 150 175 200																				250			
	40	20	40 45 50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300																							
	50	25	50 55 60 65 70 75 80 90 100 125 150 175 200 225 250 275 300 350																							
60	30	60 70 80 90 100 125 150 175 200 225 250 275 300 350 400																								

Black Die Springs สปริงสีดำ (SWG)



Order Code OD x L
SWG 30 x 100



Code	OD	ID	L																					
SWG	10	5	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100						
	12	6	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100						
	14	7				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100				
	16	8				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100				
	18	9				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100				
	20	10				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125			
	22	11				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125			
	25	12.5				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125			
	27	13.5				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150		
	30	15				20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200
	35	17.5					30	35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	
	40	20					35	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200		
	50	25						50	55	60	65	70	75	80	90	100	125	150	175	200				

D

កម្មវត្ថុ

Screws



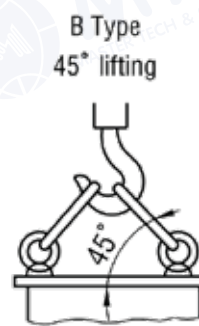
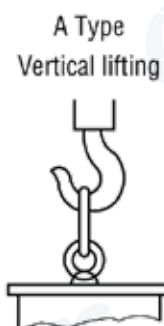
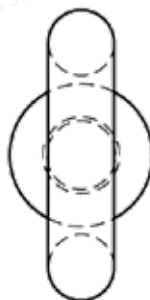
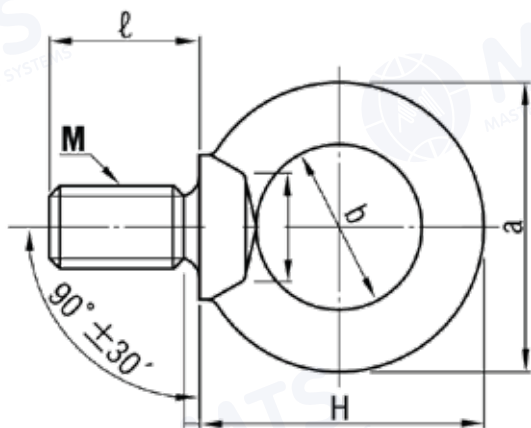
Eye Bolts

อายโบลท์ (CHI)



Code	CHI
Material	SS400

Order Code M
CHI 10

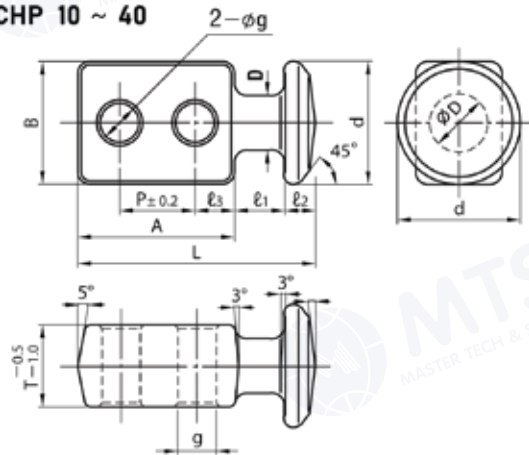


Code	M	M x p	a	b	H	ℓ	A Type & B Type
CHI	8	8 x 1.25	32.6	20	33.3	15	80 (Kg)
	10	10 x 1.5	41	25	41.5	18	150 (Kg)
	12	12 x 1.75	50	30	51	22	220 (Kg)
	16	16 x 2.0	60	35	60	27	450 (Kg)
	20	20 x 2.5	72	40	71	30	630 (Kg)
	24	24 x 3.0	90	50	90	38	950 (Kg)
	30	30 x 3.5	110	60	110	45	1500 (Kg)
	36	36 x 4.0	133	70	132	55	2300 (Kg)
	42	42 x 4.5	151	80	151	65	3400 (Kg)
	48	48 x 5.0	170	90	170	70	4500 (Kg)

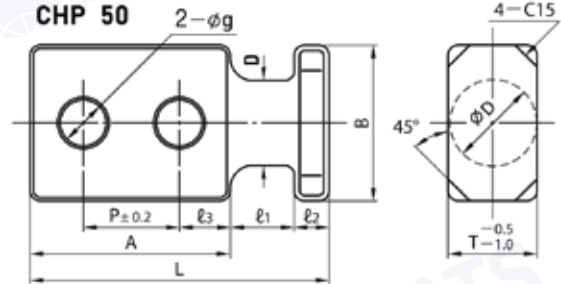
Hook (Plate Type) हुक्काप्लेट (CHP)



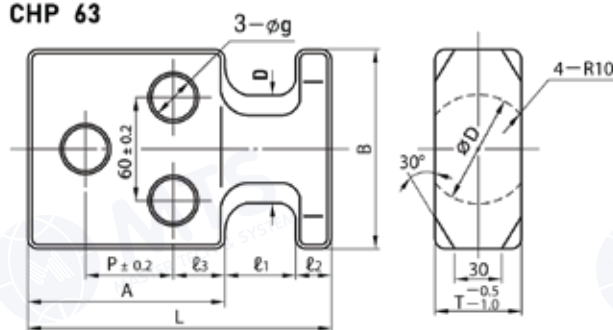
CHP 10 ~ 40



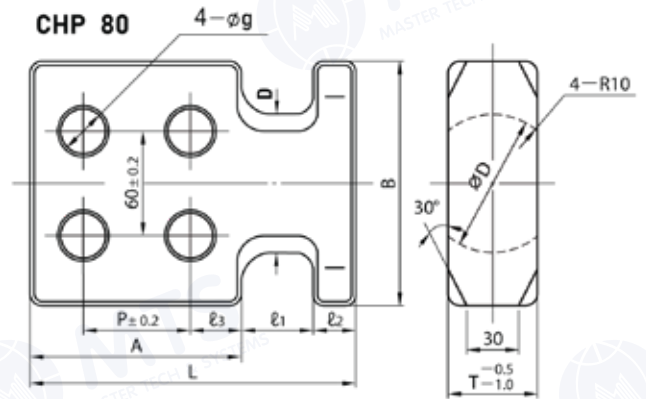
CHP 50



CHP 63



CHP 80

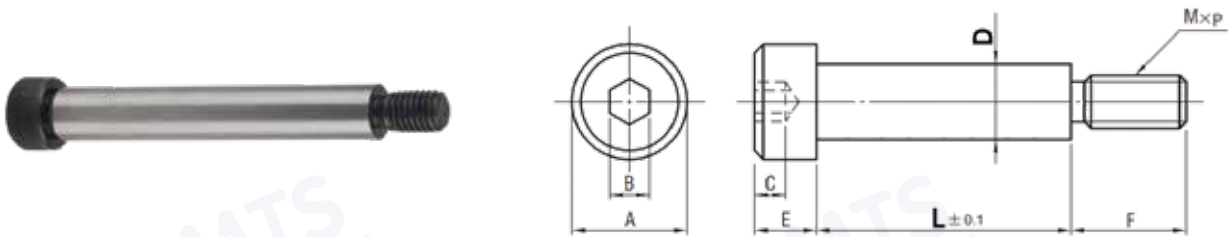


Code	CHP
Material	SS400

Order Code D
 CHP 25

Code	D	d	B	T	L	A	ℓ ₁	ℓ ₂	ℓ ₃	P	g	N/piece {kgf/piece} For steel, safety factor 10
CHP	10	28	28	18	50	32	10	8	8	16	7	1569 {160}
	12	32	32	20	56	38	10	8	10	18	9	3530 {360}
	16	36	36	24	67	46	13	8	12	22	11	4511 {460}
	20	40	40	26	88	60	18	10	15	30	14	5492 {560}
	25	48	48	35	92	60	20	12	15	30	14	6570 {670}
	32	55	55	40	118	80	25	13	20	40	18	12160 {1240}
	40	70	70	50	138	93	30	15	24	45	22	19123 {1950}
	50	-	90	50	170	115	35	20	30	55	26	27459 {2800}
	63	-	115	50	175	115	40	20	30	55	26	39227 {4000}
	80	-	140	50	185	120	40	25	30	60	26	50995 {5200}

Stripper Bolts สตริปเปอร์โบลท์ (MSB)



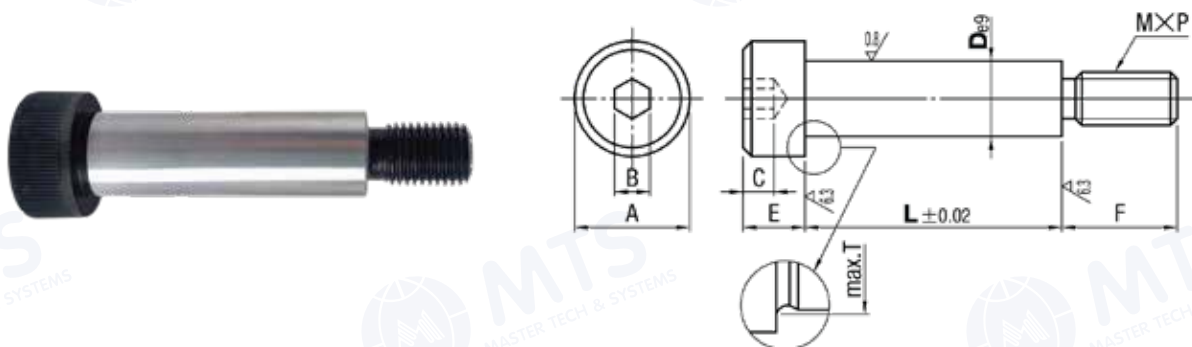
Code	MSB
Material	SCM435

Order Code D x L
MSB 16 x 100

Code	D	L
MSB	4.5	10 15 20 25 30 35 40 45 50
	5.5	10 15 20 25 30 35 40 45 50
	6.5	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80
	8	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110
	10	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120
	12	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
	13	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140
	16	15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 150
20	40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 150	

De9		A	B	C	E	F	M x p
4.5	-0.020	7	2.5	1.6	3	6	3 x 0.5
5.5	-0.050	9	3	2.2	4	7	4 x 0.7
6.5	-0.025	10	4	2.5	5	9	5 x 0.8
8	-0.061	13	5	3	6	9	6 x 1.0
10		16					
12		17	6	4	8	12	8 x 1.25
13	-0.032	18	8	5	10	16	10 x 1.5
16	-0.075	24	10	7	14	18	12 x 1.75
20	-0.040	27	14	9	18	24	16 x 2.0
	-0.092						

Stripper Bolts สตริปเปอร์โบลท์ (MSBL)

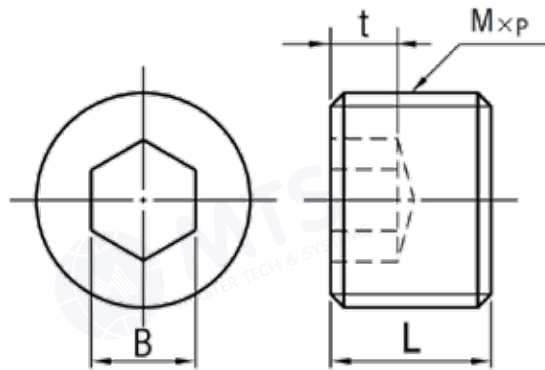


Code	MSBL
Material	SCM435

Order Code D x L
MSBL 25 x 114

Code	D	L	De9		A	B	C	E	F	M × P	T
MSBL	6.5	10 - 70	6.5	-0.025	10	4	2.5	5	9	5 × 0.8	7
	8	10 - 90	8		13	5	3	6	9	6 × 1.0	8.7
	10	10 - 120	10	-0.061	16	6	4	8	12	8 × 1.25	10.8
	13	10 - 130	13		-0.032	18	8	5	10	16	10 × 1.5
	16	15 - 150	16	-0.075	24	10	7	14	18	12 × 1.75	17
	20	15 - 150	20	-0.040	27	14	9	18	24	16 × 2.0	21
	25	30 - 160	25	-0.092	33	17	11	19	30	20 × 2.5	26

Screw Plugs ປັກຊັດ (MSW)

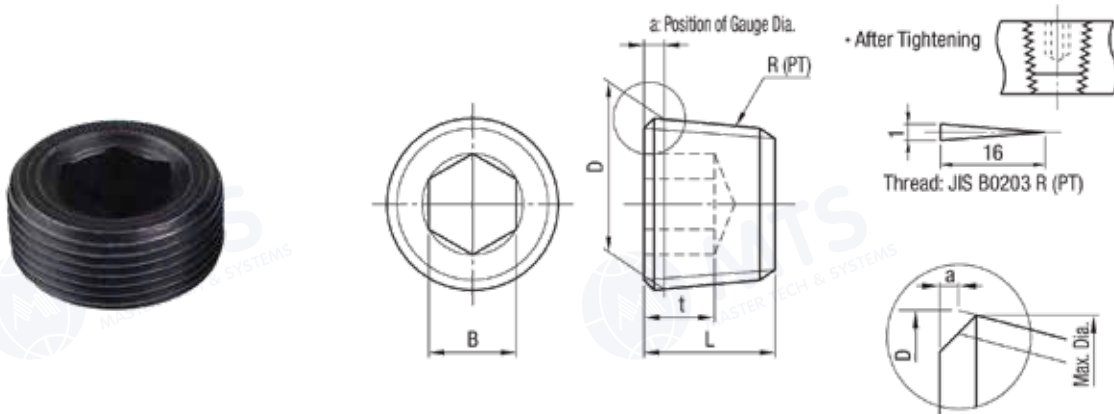


Code	MSW
Material	SCM435

Order Code M
MSW 16

Code	M	M x p	L	t	B
MSW	2.5	2.5	0.45	3	1.3
	3	3	0.5	3	1.5
	4	4	0.7	4	2
	5	5	0.8	5	2.5
	6	6	1.0	6	3
	8	8	1.25	8	4
	10	10	10	6	5
	12	12		5.5	6
	14	14			8
	16	16			10
	18	18	12	6	12
	20	20			14
	22	22			
	24	24			
	25	25			
	26	26			17
	27	27			
	28	28			
	30	30			
	33	33	18	10	17
	36	36			
	38	38			
	40	40			
	42	42			
	45	45			

Tapered Screw Plugs ปลั๊กสกรูทAPER (MSWT)



Code	MSWT
Material	SCM435
Surface	Black Oxide

Order Code D
MSWT 16

Code	No.	D	a	L	B	t	R (PT)
MSWT	J	7.723	0.45	6	4	3.0	1/16
	1	9.728	0.45 (1.5)	7 (8)	5	3.5 (5)	1/8
	2	13.157	0.7 (1.8)	8.9 (11)	6	4.5 (7.6)	1/4
	3	16.662	0.7 (2.0)	10 (12)	8	5 (8)	3/8
	4	20.955	0.9	12	10	6	1/2
	6	26.441		14	14	7	3/4
	8	33.249	1.1	16.5	17	9	1

Flat Washer (FW) / Spring Washer (SW#1 / SW#2)

แหวนอีแปะ / แหวนสปริงใน / แหวนสปริงนอก



แหวนอีแปะ



แหวนสปริงใน



แหวนสปริงนอก

Code	Size	OD x T
FW	M3	8 x 0.8
	M4	10 x 0.8
	M5	12 x 0.8
	M6	13 x 1.0
	M8	18 x 1.2
	M10	22 x 1.6
	M12	24 x 1.6
	M16	32 x 2.5

Order Code Size
FW M3

Code	Size
SW#1	M3
	M4
	M5
	M6
	M8
	M10
	M12
	M16
	M20

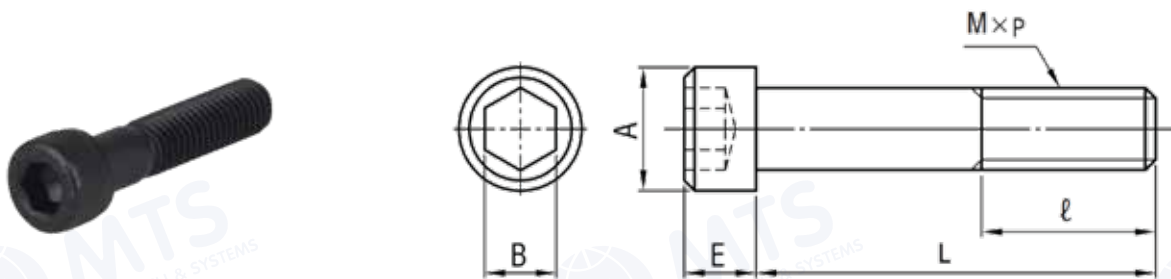
Order Code Size
SW#1 M3

Code	Size
SW#2	M3
	M4
	M5
	M6
	M8
	M10
	M12
	M16
	M20

Order Code Size
SW#2 M10

Socket Head Cab Screws

สกรูหัวจม (CB)

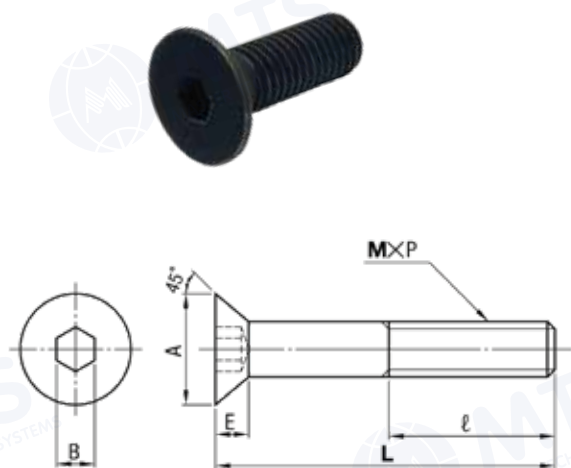


Code	CB
Material	SCM435
Hardness	38 - 43 HRC ~

Order Code D x L
CB 25 x 100

Code	M	M x p	L																																
CB	3	3 x 0.5	6	8	10	12	16	20	25	30	35	40	45	50																					
	4	4 x 0.7	6	8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150								
	5	5 x 0.8	6	8	10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150								
	6	6 x 1.0			10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150								
	8	8 x 1.25			10	12	16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150								
	10	10 x 1.5			16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200					
	12	12 x 1.75			16	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
	14	14 x 2.0			25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200							
	16	16 x 2.0			25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	300	
	20	20 x 2.5			40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	300				
	22	22 x 2.5			40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	300				
	24	24 x 3.0			50	60	70	75	80	90	100	120	140	150	160	170	180	190	200	210	220	230	240	250	300										
	30	30 x 3.5			50	60	70	80	90	100	120	140	150	160	170	180	190	200	230	250	300														
	36	36 x 4.0			80	90	100	120	140	150	160	170	180	190	200	230	250	300																	

Socket Head Cab Screws สกรูหัวจมเตเปอร์ (FB)

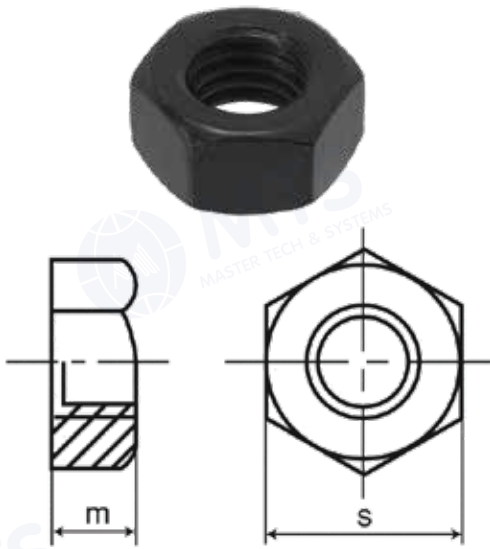


Code	FB
Material	SUJ2
Hardness	HRC 60 ± 2

Order Code D x L
FB 25 x 100

Code	L	M x P	A		E		B	l
			min.	max.	min.	max.		
FB	4 - 10	M4 x 0.7	7.64	8.00	2.16	2.30	2.5	Full Thread 14
	15							
	20							
	25							
	30							
	35							
	5 - 10	M5 x 0.8	9.64	10.00	2.66	2.80	3.0	Full Thread 16
	12							
	15							
	16							
	20							
	25							
	30							
	35							
	40							
	6 - 10	M6 x 1.0	11.57	12.00	3.12	3.30	4.0	Full Thread 18
	12							
	15							
	16							
	20							
	25							
	30							
	35							
	40							
	45							
	8 - 15	M8 x 1.25	15.57	16.00	4.22	4.40	5.0	Full Thread 22
	20							
	25							
	30							
	35							
	40							
	45							
	50							
	10 - 20	M10 x 1.5	19.48	20.00	5.32	5.50	6.0	Full Thread

Nuts หัวน็อตมิลด้า (NUT)



Code	NUT
Material	SCM435

Order Code Size
NUT M20

Code	Size	P	m	s
NUT	M3	0.5	5.5	2.4
	M4	0.7	7.0	3.2
	M5	0.8	8.0	4.0
	M6	1.0	10.0	5.0
	M8	1.25	12.0	6.5
	M10	1.5	17.0	8.0
	M12	1.75	19.0	10.0
	M14	2.0	22.0	11.0
	M16	2.0	24.0	13.0
	M18	2.5	27.0	15.0
	M20	2.5	30.0	16.0
	M22	2.5	32.0	18.0
	M24	3.0	36.0	19.0
	M27	3.0	41.0	22.0
	M30	3.5	46.0	24.0
	M33	3.5	50.0	26.0
	M36	4.0	55.0	29.0
	M42	4.5	65.0	34.0
	M48	5.0	75.0	38.0
	M48	3.0	75.0	38.0

Set Screws หัวหนอนมิล (MSWJ)



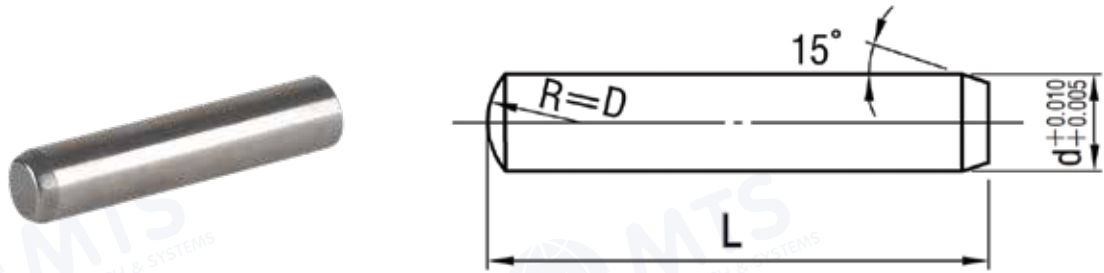
Code	Size	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm	20 mm
MSWJ	P	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5
	ปัดแฉ	1.5	2.0	2.5	3.0	4.0	5.0	6.0	6.0	8.0	10.0
	3 mm	•									
	4 mm	•	•								
	5 mm	•	•	•	•						
	6 mm	•	•	•	•	•					
	8 mm	•	•	•	•	•	•				
	10 mm	•	•	•	•	•	•	•			
	12 mm	•	•	•	•	•	•	•			
	15 mm	•	•	•	•	•	•	•	•		
	20 mm	•	•	•	•	•	•	•	•	•	•
	25 mm	•	•	•	•	•	•	•	•	•	•
	30 mm			•	•	•	•	•	•	•	•
	35 mm				•	•	•	•	•	•	•
	40 mm				•	•	•	•	•	•	•
	45 mm				•	•	•	•	•	•	•
	50 mm				•	•	•	•	•	•	•
	55 mm					•	•	•	•	•	•
	60 mm					•	•	•	•	•	•
	65 mm					•	•	•	•	•	•
	70 mm						•	•		•	•
	75 mm					•	•	•		•	•
	80 mm							•		•	•
	90 mm							•		•	•
	100 mm							•		•	•
	110 mm									•	•
	120 mm									•	•

Code	MSWJ
Material	SCM435

Order Code Size
MSWJ 3 x 6

Dowel Pins

โตะวพพนบบด้น (MS)

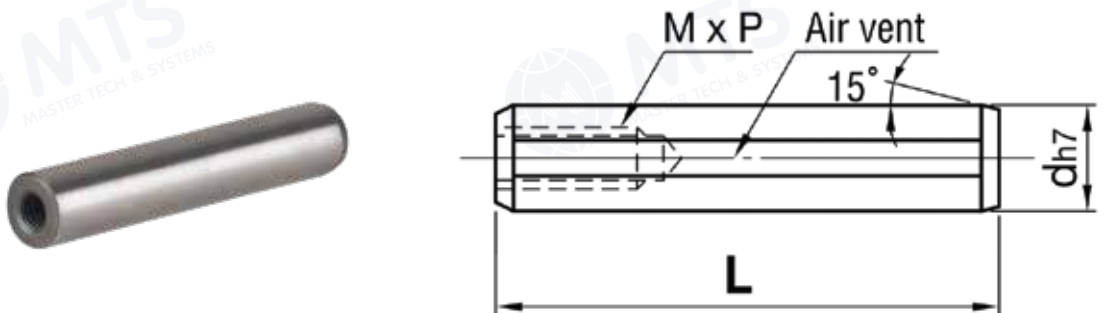


Code	MS
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
MS 10 x 80

Code	D	L	Ø1
MS	3	10 15 20 25 30 40	1
	4	10 15 20 25 30 35 40 45 50	1.5
	5	10 15 20 25 30 35 40 45 50	
	6	10 15 20 25 30 35 40 45 50 55 60	2
	8	10 15 20 25 30 35 40 45 50 55 60 70 80	2.5
	10	15 20 25 30 35 40 45 50 55 60 70 80	3
	12	20 25 30 35 40 45 50 55 60 70 80	3.5

Dowel Pins โตะวพพนบบดลยว (MSTH)



Code	MSTH
Material	SUJ2
Hardness	58 HRC ~

Order Code D x L
MSTH 10 x 80

Code	D	h7	ø1	ø2	M x P	ø	L
MSTH	5	0	1.5	0.3	3 x 0.5	6	10 15 20 25 30
	6	-0.012	2		4 x 0.7	8	15 20 25 30 35 40 45 50
	8	0		0.5	5 x 0.8		15 20 25 30 35 40 45 50 55 60 70 80
	10	-0.015	2.5		6 x 1.0	10	20 25 30 35 40 45 50 55 60 70 80
	12	0		1	8 x 1.25		15
	13	-0.018	40 50 60 70 80				
	16	0	3	1.5	10 x 1.5	18	40 50 60 70 80
	20	-0.021					50 60 70 80

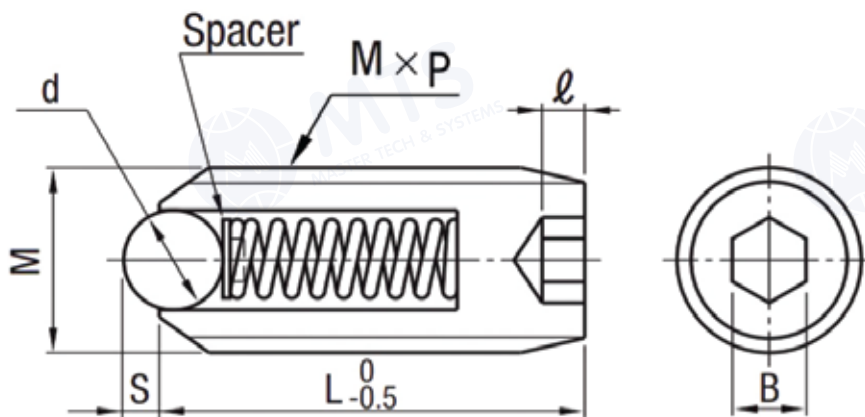
Ball Plugs

ลูกดันสปริง (BPJ / BSJ)



Code	BPJ / BSJ
Material	SCM435 / SUS304

Order	Code	M x L
	BPJ	M4 x 80
	BSJ	M4



Code	M	M x P	d	S	B	L
BPJ BSJ	M4	4 x 0.7	2.5	1	2	9
	M5	5 x 0.8	3	1	2.5	12
	M6	6 x 1.0	3.5	1.2	3	13
	M8	8 x 1.25	5	1.8	4	15
	M10	10 x 1.5	6	2	5	16
	M12	12 x 1.75	8	3	6	20
	M16	16 x 2.0	9.5	3	8	25

E

หมวดเพลาสำเร็จรูป

Linear Rods

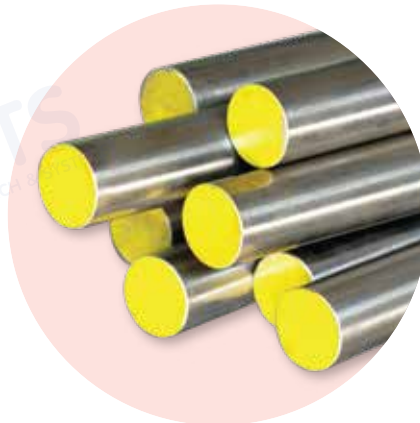


Silver Steel Rod เพลายีรณัย SK4 ไม่ชุบ (SK4-G)

จำหน่ายยกเส้น 2 เมตร

D	Tolerance h7	L
1.5	0 -0.010	2000
2		
2.5		
3		
3.5	0 -0.012	
4		
4.5		
5		
6	0 -0.015	
7		
8		
9		
10	0 -0.018	
11		
12		
12.7		
14		

D	Tolerance h7	L
15	0 -0.018	2000
16		
17		
18		
19	0 -0.021	
20		
22		
24		
25		
28		
30	0 -0.025	
32		
35		
40		
45		
50		



Grade SK4
ขนาดตั้งแต่ 1.5 - 50 มม.

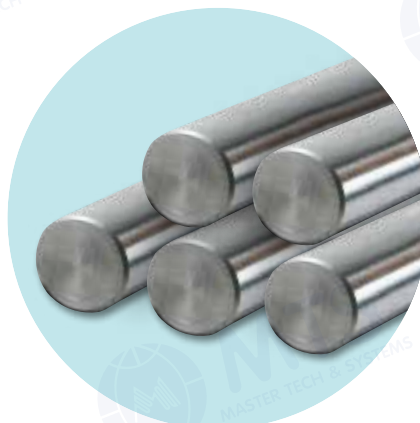
เทียบเกรด Equivalent			ส่วนผสมทางเคมี (Chemical Composition)						Hardness
Grade	JIS	AISI	C	Si	Mn	P	Ni	Cr	150-250 HV
SK4	SK95	W1-9	0.90-1.00	≤0.35	0.60-0.85	≤0.30	≤0.25	≤0.20	

Material: SK4 Tolerance: h7 Hardness: 150 - 250 HV

Grinding Rod เพลายีรณัย S45C ไม่ชุบ (S45C-G)

ตัดได้ตามความยาวใช้งาน

D	Tolerance	L
8	(h7) 0 -0.015	100 - 3000
10		
12	(h7) 0 -0.018	
15		
16		
20	(h7) 0 -0.021	
25		
30		
35	(h7) 0 -0.025	
40		
45		
50	(h8) 0 -0.046	
55		
60		



Grade S45C
ขนาดตั้งแต่ 8 - 60 มม.

เทียบเกรด Equivalent			ส่วนผสมทางเคมี (Chemical Composition)						Hardness
Grade	AISI	DIN	C	Si	Mn	P	S	Cr	210-220 HB
S45C	1045	CK45	0.42-0.48	0.15-0.35	0.6-0.90	≤0.30	≤0.35	≤0.20	

Material: S45C Tolerance: h7 / h8 Hardness: 210 - 220 HB



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E

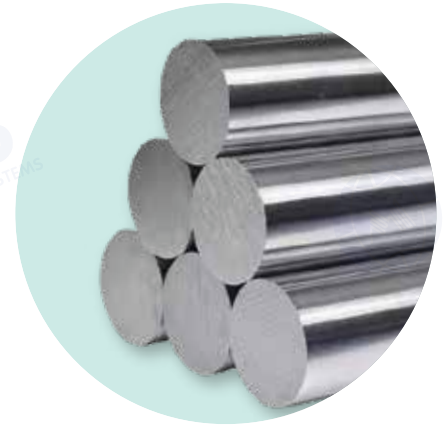
Linear Rods

Grinding Rod

เพลาเจียร์นีย์ SCM440 (SCM440-G)

ตัดได้ตามความยาวใช้งาน

D	Tolerance	L
16	$\begin{matrix} 0 \\ (h7) \\ -0.018 \end{matrix}$	100 - 3000
20	$\begin{matrix} 0 \\ (h7) \\ -0.021 \end{matrix}$	
25		
30		
35	$\begin{matrix} 0 \\ (h7) \\ -0.025 \end{matrix}$	
40		
50	$\begin{matrix} 0 \\ (h8) \\ -0.046 \end{matrix}$	
55		
60		



Grade SCM440

ขนาดตั้งแต่ 16 - 60 มม.

เทียบเกรด Equivalent			ส่วนผสมทางเคมี (Chemical Composition)						Hardness
Grade	AISI	DIN	C	Si	Mn	P	S	Cr	
SCM440	4140	1.7225	0.38-0.43	0.15-0.35	0.60-0.90	≤0.30	≤0.30	0.90-1.20	255 HB MAX

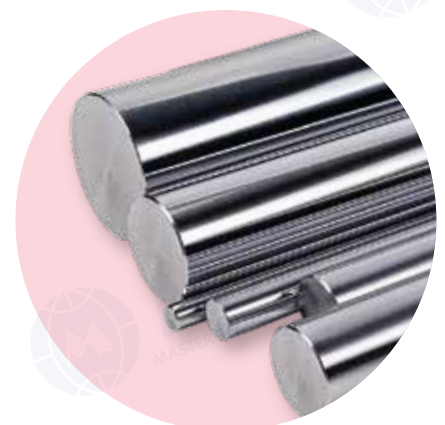
Material: SCM440 **Tolerance:** h7 / h8 **Hardness:** 255 HB MAX

Hardchrome Rod เพลฮาโรดโครม S45C (S45C-HC)

ตัดได้ตามความยาวใช้งาน

D	Tolerance f8	L
6	-0.010 -0.028	100 - 3000
8	-0.013	100 - 3500
10	-0.035	
12	-0.016 -0.043	
12.7 (1/2")		
13		
14		
15		
16		
17		
18		
19	-0.020 -0.053	
19.05 (3/4")		
20		
22		
25		
25.4 (1")		
28		
30		
32	-0.025 -0.064	100 - 6000

D	Tolerance f8	L
35	-0.025 -0.064	100 - 6000
38		
38.1 (1 1/2")		
40		
45		
50		
50.8 (2")	-0.030 -0.076	
55		
56		
60		
65		
70		
75		
76.2 (3")	-0.036 -0.090	
80		
85		
90		
95		
100		
120		
125	-0.043	
150	-0.106	



Grade S45C

ขนาดตั้งแต่ 6 - 150 มม.

Material: S45C **Tolerance:** f8 **Surface Hardness:** HV 850 min
Hardchrome Thickness: 25 Micron min

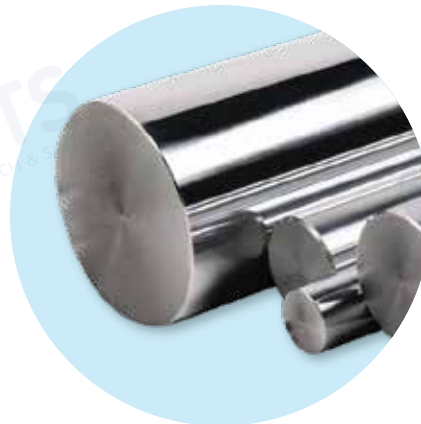
Shaft

เพลฮาร์ดโครม ชูบแข็งผิว SUJ2 (SUJ2-HC)

ตัดได้ตามความยาวใช้งาน

D	Tolerance g6	L
8	-0.005	100 - 3500
10	-0.014	
12	-0.006 -0.017	
13		
15		
16		
18		
20	-0.007 -0.020	
25		
30		
35	-0.009 -0.025	100 - 3000

D	Tolerance g6	L
40	-0.009 -0.025	100 - 6000
45		
50		
55	-0.010 -0.029	
60		
65		
70		
75		
80		
100	-0.012 -0.034	



Grade SUJ2

ขนาดตั้งแต่ 8 - 100 มม.

Material: SUJ2 **Tolerance:** g6 **Surface Hardness:** HRC 60±2

Hardchrome Thickness: 25 Micron min

Depth of Effective Hardened Layer: Dia 8-30 mm 1.0-2.5 mm

Dia 30 mm Up 1.0-3.0 mm

Centerless Grinding Bar

เพลาจียร์นียสแตนเลส SUS303 (SUS303-G)

Dia 3-10 มม.

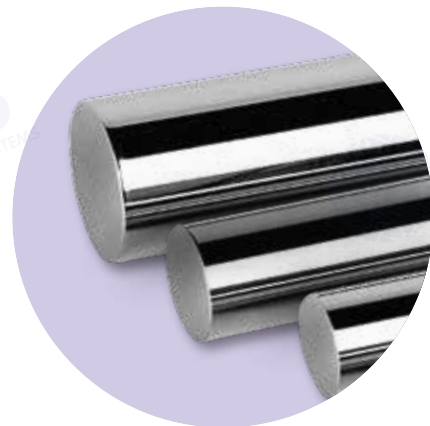
(จำหน่ายยกเส้น 2.5 เมตร)

D	Tolerance h7	L
3	0 -0.010	2500
4	0 -0.012	
5		
6		
7	0 -0.015	
8		
9		
10		

Dia 11-24 มม.

(ตัดได้ตามความยาวใช้งาน)

D	Tolerance h7	L
11	 0 -0.018	100 - 2500
12		
13		
14		
15		
16		
17		
18		
20	0 -0.021	
22		
24		



Grade SUS303

ขนาดตั้งแต่ 3 - 24 มม.

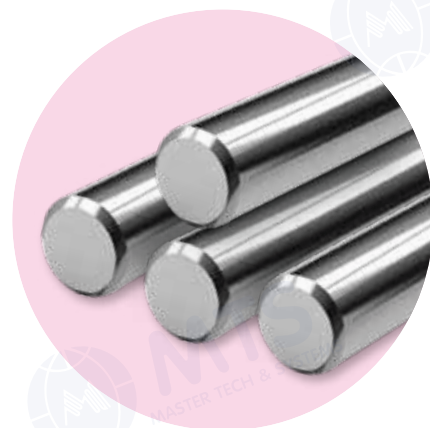
Material: SUS303 Tolerance: h7

Centerless Grinding Bar

เพลาจียร์นียสแตนเลส SUS304 (SUS304-G)

ตัดได้ตามความยาวใช้งาน

D	Tolerance h7	L
25	0	100 - 3000
30	-0.021	
35	0 -0.025	
40		
45		
50		



Grade SUS304

ขนาดตั้งแต่ 25 - 50 มม.

Material: SUS304 Tolerance: h7