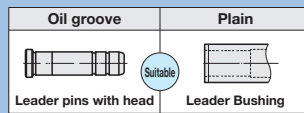


PRECISION LEADER PINS

— HEAD • OIL GROOVE | PRESS-FIT LENGTH DESIGNATION TYPE/PRESS-FIT DIAMETER • LENGTH DESIGNATION TYPE —



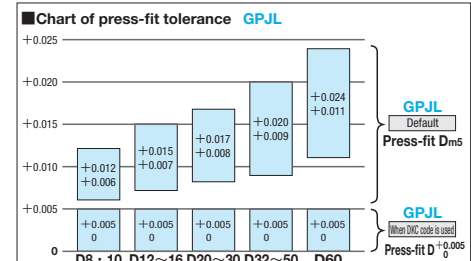
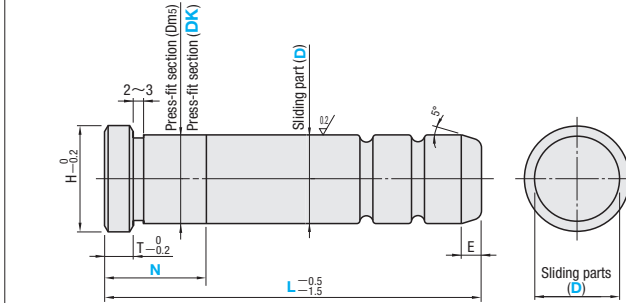
☉ Non JIS material definition is listed on P.1351 - 1352



RoHS

Sliding parts D	Press-fit Section D _{ms}	Press-fit Section DK tolerance	T	H	E
8	-0.015 -0.020	8 +0.012 +0.006	5	11	3
10				13	4
12				17	
13	-0.020 -0.025	13 +0.015 +0.007	6	18	
16				21	
20				25	
25	-0.025 -0.030	25 +0.017 +0.008	8	30	5
28				33	
30				35	
32			10	37	
35	-0.030 -0.040	35 +0.020 +0.009		40	
40				45	
50			12	56	8
60	-0.030 -0.050	60 +0.024 +0.011		65	

GPJL (Press-fit diameter D_{ms} • length designation type)
GPJ-XL (Press-fit diameter • length designation type)



- ☉ Oil grooves **P.885**
- ☉ Recommended mold temperature for the usage of a precision leader pin and bushing is 80°C or less because of a little clearance between them. (**P.878**)
- ☉ A center hole may be left on one or both ends.
- ☉ Oil groove part might not be colored by heat treatment.

☉ SUJ2
 ☉ S8HRC~ (Induction hardening)

Order

Part Number: **GPJL** **25** - **150** - **N80**
GPJ-XL **25** - **150** - **N80** - **DK25.015**

Days to Ship **Quotation**

Price **Quotation**

Alterations

Part Number: **GPJL25** - **180** - **N100** - **MC**
GPJ-XL25 - **180** - **N100** - **DK25.015** - **MC**

Type	D	L	N 1mm inc.	U/Price 1~9	Type	D	L	N 1mm inc.	DK 0.001mm inc.	U/Price 1~9
8	8	40 45	5~16	8.000	8	8	40 45	10~16	8.050	
		50 55 60 65	5~24				50	10~24		
		70 75	5~35				55 60 65	10~24		
		80	5~45				70 75	10~35		
		40 45	5~16				80	10~45		
		50 55 60 65	5~24				40 45	10~16		
		70 75	5~35				50	10~24		
		80 85	5~45				70 75	10~35		
		90 95	5~60				80 85	10~45		
		100 105	5~60				90 95	10~50		
10	10	110 115	5~70	10.000	10	10	40 45	10~16	10.050	
		120~160 (5mm inc.)	5~80				50	10~24		
		165~200 (5mm inc.)	5~80				70 75	10~35		
		40 45	5~16				80	10~45		
		50 55 60 65	5~24				40 45	10~16		
		70 75	5~35				50	10~24		
		80 85	5~45				70 75	10~35		
		90 95	5~60				80 85	10~45		
		100 105	5~60				90 95	10~50		
		110 115	5~70				100 105	10~60		
12	12	120~160 (5mm inc.)	5~80	12.000	12	12	40 45	10~16	12.050	
		165~200 (5mm inc.)	5~80				50	10~24		
		40 45	5~16				70 75	10~35		
		50 55 60 65	5~24				80 85	10~45		
		70 75	5~35				90 95	10~50		
		80 85	5~45				100 105	10~60		
		90 95	5~60				110 115	10~70		
		100 105	5~60				120	10~80		
		110 115	5~70				125~160 (5mm inc.)	10~80		
		120	5~80				165~200 (5mm inc.)	10~80		
13	13	120	5~80	13.000	13	13	40 45	11~16	13.050	
		125~160 (5mm inc.)	5~80				50	11~24		
		165~200 (5mm inc.)	5~80				55 60 65	11~24		
		40 45	5~16				70 75	11~35		
		50 55 60 65	5~24				80 85	11~45		
		70 75	5~35				90 95	11~50		
		80 85	5~45				100 105	11~60		
		90 95	5~60				110 115	11~70		
		100 105	5~60				120	11~80		
		110 115	5~70				125~160 (5mm inc.)	11~80		
16	16	120	5~80	16.000	16	16	40 45	11~16	16.050	
		125~160 (5mm inc.)	5~80				50	11~24		
		165~200 (5mm inc.)	5~80				55 60 65	11~24		
		40 45	5~16				70 75	11~35		
		50 55 60 65	5~24				80 85	11~45		
		70 75	5~35				90 95	11~50		
		80 85	5~45				100 105	11~60		
		90 95	5~60				110 115	11~70		
		100 105	5~60				120	11~80		
		110 115	5~70				125~160 (5mm inc.)	11~80		

Alteration details **P.879**

Alterations	Code	Spec.	1Code
	MC	Tip tapping ☉ D=Not available for 8, 10. D M×Pitch ℓ 12~13 M 6×1.0 12 16 M10×1.5 20 20 M12×1.75 24 25~60 M16×2.0 32	
	MMC	Tapping on the head ☉ D=Not available for 8, 10. D M×Pitch ℓ 12~20 M5×0.8 10 25~60 M8×1.25 16	
	DKC	Changes press-fit section tolerance. D _{ms} → D _{ms} ± 0.005 ☉ Available for GPJL	
	GA	Adds a tap to attach a leader assist pin. ☉ Available for D40 • 50 • 60	

Type	D	L	N 1mm inc.	U/Price 1~9	Type	D	L	N 1mm inc.	DK 0.001mm inc.	U/Price 1~9
20	20	50	6~24	20.000	20	20	50	11~24	20.050	
		55	6~30				60 65	11~30		
		60 65	6~30				70 75	11~35		
		70 75	6~35				80 85	11~40		
		80 85	6~40				90 95	11~50		
		90 95	6~50				100 105	11~60		
		100 105	6~60				110 115	11~70		
		110 115	6~70				120	11~80		
		120 125	6~80				130 135	11~90		
		130 135	6~90				140~160 (5mm inc.)	11~100		
25	25	140 145 150	6~100	25.000	25	25	50 55	13~24	25.050	
		155~200 (5mm inc.)	6~100				60 65	13~30		
		210~260 (10mm inc.)	6~100				70 75 80 85	13~40		
		270~300 (10mm inc.)	6~100				70 75 80 85	13~40		
		50 55	8~24				90 95	13~50		
		60 65	8~30				100 105	13~60		
		70 75 80 85	8~40				110 115	13~70		
		80 85	8~50				120	13~80		
		90 95	8~60				125	13~80		
		100 105	8~70				130 135	13~90		
28	28	110 115	8~80	28.000	28	28	50 55	13~24	28.050	
		120 125	8~80				60 65	13~30		
		130 135	8~90				70 75	13~37		
		140 145	8~100				80 85	13~45		
		150 155	8~110				90 95	13~50		
		160 165	8~110				100 105 110 115	13~60		
		170~200 (5mm inc.)	8~120				120	13~70		
		210~260 (10mm inc.)	8~120				125	13~70		
		270~300 (10mm inc.)	8~120				130 135	13~80		
		310~350 (10mm inc.)	8~120				140 145	13~90		
30	30	310~350 (10mm inc.)	8~120	30.000	30	30	50 55	13~24	30.050	
		310~350 (10mm inc.)	8~120				60 65	13~30		
		310~350 (10mm inc.)	8~120				70 75	13~37		
		310~350 (10mm inc.)	8~120				80 85	13~45		
		310~350 (10mm inc.)	8~120				90 95	13~50		
		310~350 (10mm inc.)	8~120				100 105 110 115	13~60		
		310~350 (10mm inc.)	8~120				120	13~70		
		310~350 (10mm inc.)	8~120				125	13~70		
		310~350 (10mm inc.)	8~120				130 135	13~80		
		310~350 (10mm inc.)	8~120				140 145	13~90		
32	32	310~350 (10mm inc.)	8~120	32.000	32	32	50 55	13~24	32.050	
		310~350 (10mm inc.)	8~120				60 65	13~30		
		310~350 (10mm inc.)	8~120				70 75	13~37		
		310~350 (10mm inc.)	8~120				80 85	13~45		
		310~350 (10mm inc.)	8~120				90 95	13~50		
		310~350 (10mm inc.)	8~120				100 105 110 115	13~60		
		310~350 (10mm inc.)	8~120				120	13~70		
		310~350 (10mm inc.)	8~120				125	13~70		
		310~350 (10mm inc.)	8~120				130 135	13~80		
		310~350 (10mm inc.)	8~120				140 145	13~90		

- ☉ Designate Nmin. value when no press-fit section is required. ex.D=40 → N=10
- ☉ No press-fitting section when N=T+(2 or 3).

Leader Components