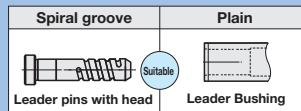


# PRECISION LEADER PINS

— HEAD • SPIRAL GROOVE PRESS-FIT LENGTH DESIGNATION TYPE —

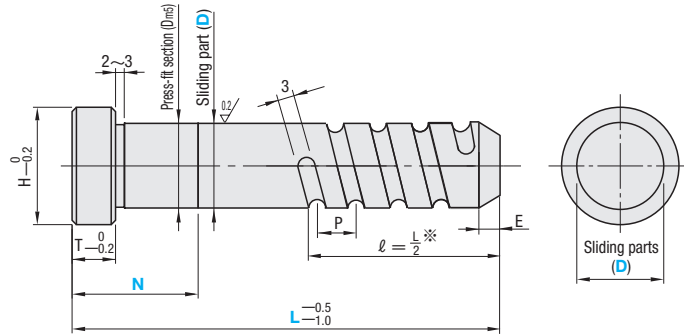


⚠ Non JIS material definition is listed on P.1351 - 1352

RoHS



**GPHLSP** (Press-fit diameter Dm5 • length designation type)



Sliding parts D	Press-fit section Dm5	T	H	E
20	20	8	25	5
25	25	8	30	5
30	30	10	35	8
40	40	10	45	8
50	50	12	55	8

- ※ The length of the spiral groove (ℓ) will be one half of the overall length (L/2), regardless of the N dimension.
- ⚠ Recommended mold temperature for the usage of a precision leader pin and bushing is 80A 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. Despite appearance differences, it can be used without any problem.

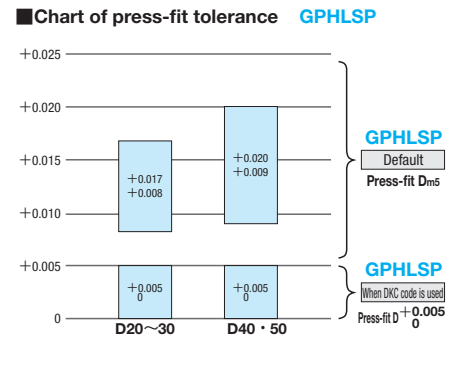
☑ SUJ2  
☑ 58HRC~  
(Induction hardening)

Order **Part Number** — **L** — **N**  
GPHLSP25 — 100 — N24

Days to Ship **Quotation**

Price **Quotation**

Alterations **Part Number** — **L** — **N** — (MC • MMC • GA • DKC)  
GPHLSP20 — 100 — N24 — MC



Alteration details ☞ P.879

Alterations	Code	Spec.	1Code
	MC	Tip tapping D M×Pitch ℓ 20 M12×1.75 24 25~50 M16×2.0 32	Quotation
	MMC	Tapping on the head D M×Pitch ℓ 20 M5×0.8 10 25~50 M8×1.25 16	

Alterations	Code	Spec.	1Code
	GA	Adds a tap to attach a leader assist pin. ⚠ Available for D40 • 50 Alteration detail ☞ P.879	Quotation
	DKC	Changes press-fit section tolerance. Dm5 → D + 0.005	

## Spiral groove dimensions

L	60~70	80~120	130~180	190~300	310~360
P	10	15	20	25※	30

※D=20~30 → P=23

Part Number Type	D	L Selection					N 1mm increments	U/Price 1~9
		60	70	80	90	100		
GPHLSP	20	60	70	80	90	100	8 ≤ N < L/2	Quotation
		100	110	120	130	140		
		170	200					
		210						
	25	60						
		70	80	90	100	110		
		120	130	140	150	160		
		170	200					
	30	210	220	230				
		130	140	150	160			
		170	180	190	200			
	40	210	220	230				
		200	210	220	230	240		
		250	260	270	280	290		
	50	310	320	330	340	350		
230		240						
250		260	270	280	290			
		310	320	330	340	350	10 ≤ N < L/2	
							12 ≤ N < L/2	

- ⚠ When no press-fit part is required, specify Nmin.
- ⚠ The N dimension also includes the head thickness and the undercut below the head, so in case of N=T+(2 or 3), there will be no press-fit part.
- When the overall length (L dimension) and the diameter of the press-fit part are freely specified, please order using GPHL and GPH-XL (☞ P.883).

## Feature of spiral groove

- The ring oil groove that has been widely used up until now retains the lubricating oil, and applies a suitable amount of oil when the guide pin and the guide bushing touch each other, thus helping to prevent seizure. In contrast, a spiral groove retains lubricating oil, and when the guide pin and the guide bushing come into contact with each other, the lubricating oil moves around the entire periphery of the pin along the spiral groove, resulting in greater seizure prevention effectiveness.