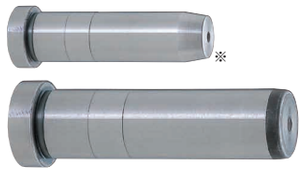
LEADER PINS WITH DIAMETER OF RECESS

— HEAD • PLAIN PRESS-FIT LENGTH DESIGNATION TYPE • PRESS-FIT DIAMETER • LENGTH DESIGNATION TYPE —

Plain		Oil groove
	Suitable	
Leader pins with head		Leader Bushing

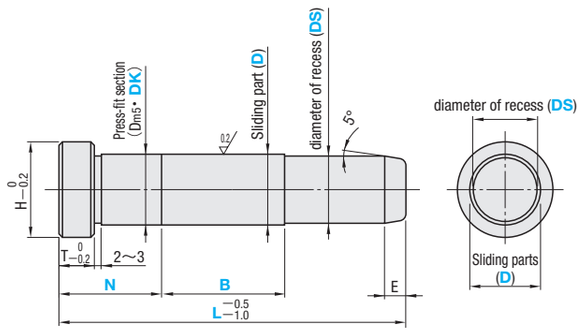
Non JIS material definition is listed on P.1351 - 1352

RoHS



※ When combination with GC

GPHOT (Press-fit length D_{m5} diameter of recess designation type)
GPHOT—XL (Press-fit diameter • length diameter of recess designation type)



Sliding parts D		Press-fit section D_{m5} GPHOT		T	H	E
12	−0.020 −0.025	12	+0.015 +0.007	5	17	5
13		13			18	
16		16		8	21	
20	−0.025 −0.030	20	+0.017 +0.008		25	
25		25			30	
30		30			35	
40	−0.030 −0.040	40	+0.020 +0.009	10	45	8
50		50		12	55	

M SUJ2
H 58HRC~ (Induction hardening)

- By specifying the diameter of the recess, it is possible to set the clearance at the guide part to a slightly larger value than the conventional value.
- A center hole may be left on one or both ends.
- It is possible to eliminate the B dimension (sliding part) by performing alteration BN.
- By using the tip tapering (additional machining GC) as well, the effectiveness in preventing scuffing when the guide starts is improved (see photo. above).

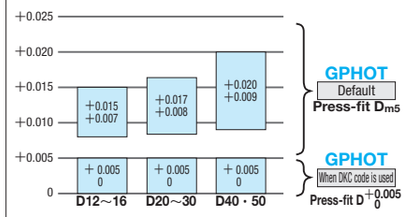
Order

Part Number	L	N	DK	B	DS
GPHOT 25	250	N100		B10	DS24.93
GPHOT—XL25	250	N100	DK25.009	B20	DS24.93

Days to Ship Quotation

Price Quotation

■Chart of press-fit tolerance GPHOT



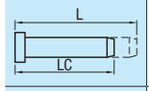
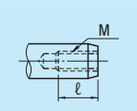
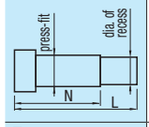
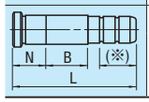
Press-fit (DK) can be designated at 0.001mm increments for GPHOT—XL

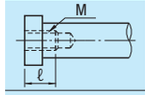
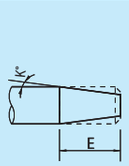
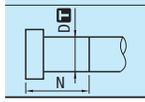
Alterations

Part Number	L(LC)	N	DK	B(BN)	DS	(MC・MMC…etc.)
GPHOT—XL 25	LC 249	N24	DK25.009	BN	DS24.93	GC—E20—K10

⊗ Combination of GC with OC not available.

Alteration details P.879~880

Alterations	Code	Spec.	1Code
	LC	Total length alteration LC=1mm increments Shortens the full length (L) as shown in the drawing. (Tip dimension E remains unchanged.) Lmin.＜LC＜Lmax.	Quotation
	MC	Tip tapping D / M×Pitch / ℓ 12・13 / M 6×1.0 / 12 16 / M10×1.5 / 20 20 / M12×1.75 / 24 25~50 / M16×2.0 / 32	
	BN	Machining to eliminate sliding part The sliding part is eliminated, so the only specifications are the diameters of the press-fit part and the recess. BN is indicated as the B dimension.	
	OC	Adds oil grooves. N+B≦L−(※) Alteration details P.880	

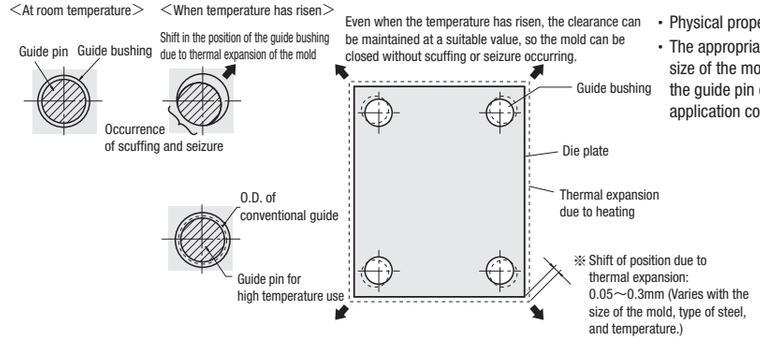
Alterations	Code	Spec.	1Code
	MMC	Tapping on the head D / M×Pitch / ℓ 12~20 / M5×0.8 / 10 25~50 / M8×1.25 / 16	Quotation
 The tapered part is to be cut.	GC	Tapers the tip. Designation method GC—E20—K10 E=1mm increments K=1° increments 1°≦K≦10° E>20 of D16~30 is available only when L≧50. D / E 12・13 / 5≦E≦20 16 / 5≦E≦25 20 / 5≦E≦30 25 / 5≦E≦35 30 / 5≦E≦40 40・50 / 5≦E≦20 Alteration details when combination with MC P.879	
	DKC	Changes press-fit section tolerance. D_{m5} → $D^{+0.005}_{0}$ Available for GPHOT	

Part Number Type	D	L 5mm increments	N 1mm increments	Press-fit diameter DK 0.001mm increments	DK Tolerance	B 1mm increments	Diameter of recess DS 0.001mm increments	DS Tolerance	U/Price 1~9 GPHOT	GPHOT—XL
GPHOT GPHOT—XL	12	30~ 50 55~ 80 85~120 125~160 165~200	5~ 80	12.000~12.050	DK ±0.002	5~ 50	11.80~12.00	DS 0 −0.01	Quotation	
	13	30~ 50 55~ 80 85~120 125~160 165~200	5~ 80	13.000~13.050		5~ 50	12.80~13.00			
	16	30~ 50 55~ 80 85~120 125~160 165~200 205~250	8~ 80	16.000~16.050		5~ 50	15.80~16.00			
	20	30~ 60 65~110 115~160 165~200 205~260 265~300	8~100	20.000~20.050		5~ 80	19.80~20.00			
	25	40~ 60 65~110 115~160 165~200 205~260 265~300 305~350	8~120	25.000~25.050		5~130	24.80~25.00			
	30	50~ 60 65~110 115~160 165~200 205~260 265~300 305~350 355~400	8~130	30.000~30.050		5~130	29.80~30.00			
	40	80~140 145~190 195~240 245~300 305~380 385~450 455~500	8~130	40.000~40.050		5~130	39.80~40.00			
	50	100~150 155~190 195~240 245~300 305~360 365~400 405~460 465~500 505~550	8~140	50.000~50.050		5~140	49.80~50.00			

L≧N+B+E
When B=0, specify BN. The selection of DK is GPHOT-XL only.
When no press-fit part is required, specify Nmin. using GPHOT. Also, the N dimension includes the head thickness and the undercut below the head, so in the case of N=T+(2or3), there is no press-fit part.

■Features

- Prevents scuffing and seizure of the guide due to fluctuation of the guide pin position and the guide bushing hole position caused by thermal expansion of the mold, and realizes appropriate opening and closing of the mold during injection molding. It is possible to use as leader pin for rubber mold.



- Physical properties of metal material P.1335
- The appropriate clearance setting differs according to the size of the mold, the type of steel, the mold temperature, the guide pin diameter, etc., so select it according to the application concerned.

Leader Components