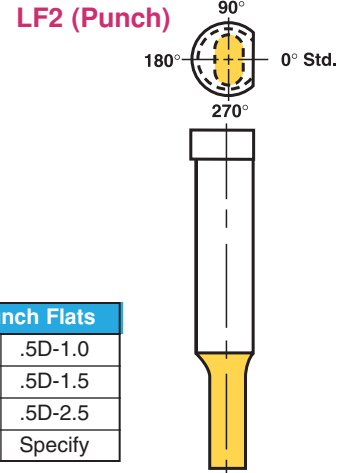
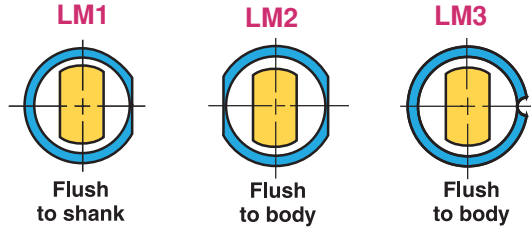


Standard Locating Methods		
Flat		Depth
LM1	F =	.5D
LM2	F =	.5D
LM3	F =	.5D (R=1.5)
LM4	F =	.5D
LM5	F =	.5D



All above locating methods are supplied at standard location (0°) "Alternate locations 90°, 180°, and 270° are available at no extra charge" Call out (LM1@90)

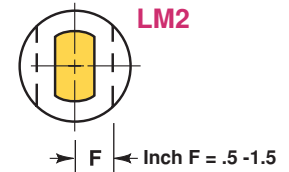
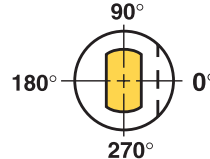
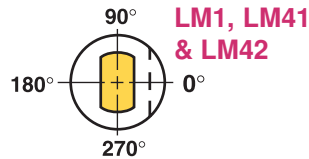
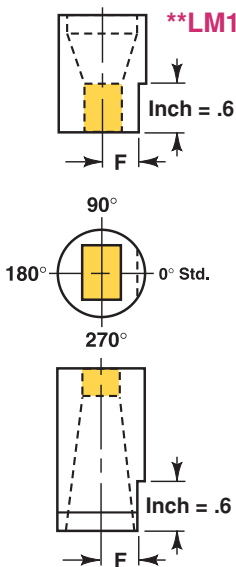
Custom locations (other than 0°, 90°, 180° and 270°)

LM4= Single Flat Custom Location (LM4@45)

LM5= Double Flat Custom Location (LM5@225)

Additional variations available (consult factory or supply drawings of requirement)

Full Length Punch Flats		
LF2A	F=	.5D-1.0
LF2	F=	.5D-1.5
LF21	F=	.5D-2.5
LF22	F=	Specify

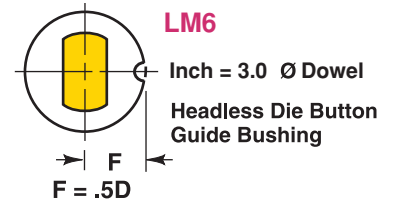


Call Out	D*	Body Diameter "D"																	
		.05	.06	.08	.10	.13	.16	.20	.22	.25	.32	.38	.40	.45	.50	.56	.63	.71	.76
LM1	F =	.5D - 1.5 mm																	
LM2	F =	.5D - 1.5 mm																	
LM4	F =	.5D - 1.5 mm																	
LM41①	F =	2.2	2.6	3.5	4.3	5.6	6.9	8.7	9.5	10.8	13.8	16.5	17.4	19.5	21.7	24.2	27.3	30.7	32.9
LM42②	F =	2.0	2.5	3.5	4.0	5.5	7.0	8.5	9.5	11.0	14.0	17.0	18.0	20.5	23.0	26.0	29.5	33.5	35.5
LM5	F =	.5D - 1.5 mm																	

\*Additional variations available (consult factory or supply drawings of requirement)

\*\*Above flats available on Cutting end at no (Example LM1C) ① Old style standard ② NAPMA standard

Call Out	Dowel Ø	D=	Body Diameter "D"												
			.05	.06	.08	.10	.13	.16	.20	.22	.25	.32 & up			
LM6	3 mm	F =	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D
LM63	3 mm	F =	3.5	3.9	4.7	5.5	6.7	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D
LM64	4 mm	F =	4.0	4.4	5.2	6.0	7.2	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D
LM65①	4 mm	F =	3.5	4.0	5.0	6.0	7.5	.5D	.5D	.5D	.5D	.5D	.5D	.5D	.5D
LM66②	6 mm	F =	-	-	6.2	7.0	8.2	9.0	11.0	12.0	13.5	.5D	.5D	.5D	.5D



Custom locations (other than 0°, 90°, 180° and 270°) ① Old style standard ② NAPMA standard

LM8= Dowel Slot Custom Location (LM8@45)

### TOLERANCES ON ALL FLATS

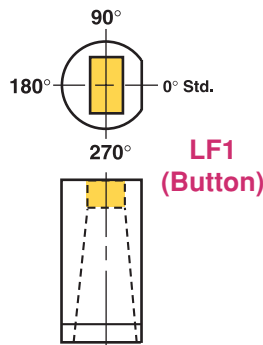
Standard Precision +0.01 to C/L  
-0.00

.001/1.000 Parallel

Ultra Precision +0.005 to C/L  
-0.000

0.05/100 Parallel

Full Length Punch Flats		
LF1A	F=	.5D-1.0
LF1	F=	.5D-1.5
LF11	F=	.5D-2.5
LF12	F=	Specify



LM3, LM44, LM45, LM46, LM47, LM48, LM49 (Flat is on cutting-End)

Call Out	Depth	Length
LM43	1.5	13
LM44	1.5	16
LM45	1.5	20
LM46	SPECIFY	
LM47	2.5	13
LM48	2.5	16
LM49	2.5	20

