

Centerline Locators

Reference Spheres

Pins

3/8-24

M6 and 1/4-20

M5

M4

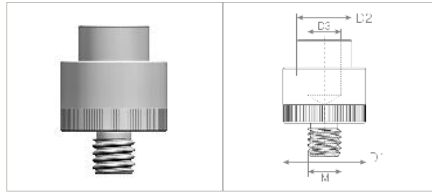
M3

M2

Contents

CLL

## PWM Centerline Locator



- ⊕ Material: 7075-T6 Aluminum
- ⊕ Finish: Hard coat anodized
- ⊕ Tolerances: all held to 0.001" / 0.025 mm

### Group 1

Order No.	M	D1	D2	D3
CLL-P10-24UNC	10-24UNC	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"
CLL-P10-32UNF	10-32UNF	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"
CLL-P1/4-20UNC	1/4-20UNC	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"
CLL-P1/4-28UNF	1/4-28UNF	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"
CLL-P5/16-18UNC	5/16-18UNC	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"
CLL-P5/16-24UNF	5/16-24UNF	5/8", 0.625"	3/8", 0.375"	1/4", 0.250"

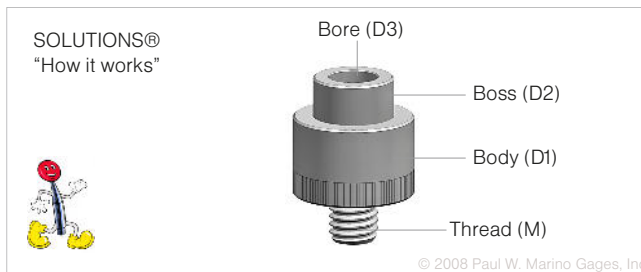
### Group 2

Order No.	M	D1	D2	D3
CLL-P3/8-16UNC	3/8-16UNC	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"
CLL-P3/8-24UNF	3/8-24UNF	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"
CLL-P7/16-14UNC	7/16-14UNC	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"
CLL-P7/16-20UNF	7/16-20UNF	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"
CLL-P1/2-13UNC	1/2-13UNC	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"
CLL-P1/2-20UNF	1/2-20UNF	3/4", 0.750"	5/8", 0.625"	3/8", 0.375"

### Group 3

Order No.	M	D1	D2	D3
CLL-P5/8-11UNC	5/8-11UNC	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"
CLL-P5/8-18UNF	5/8-18UNF	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"
CLL-P3/4-10UNC	3/4-10UNC	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"
CLL-P3/4-16UNF	3/4-16UNF	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"
CLL-P1"/1-8UNC	1"/1-8UNC	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"
CLL-P1"/1-12UNF	1"/1-12UNF	1-1/4", 1.250"	3/4", 0.750"	5/8", 0.625"

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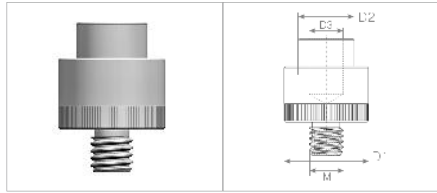


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# PWM Centerline Locator

CLL



- ⊕ Material: 7075T6 Aluminum
- ⊕ Finish: Hard coat anodize
- ⊕ Tolerances: all held to 0.001" / 0.025 mm

## Group 1

Order No.	M	D1	D2	D3
CLL-PM4x0.7	M4 x 0.7	15.0 mm	10.0 mm	6.0 mm
CLL-PM6x1.0	M6 x 1.0	15.0 mm	10.0 mm	6.0 mm
CLL-PM8x1.25	M8 x 1.25	15.0 mm	10.0 mm	6.0 mm

## Group 2

Order No.	M	D1	D2	D3
CLL-PM10x1.5	M10 x 1.5	20.0 mm	15.0 mm	10.0 mm
CLL-PM12x1.75	M12 x 1.75	20.0 mm	15.0 mm	10.0 mm

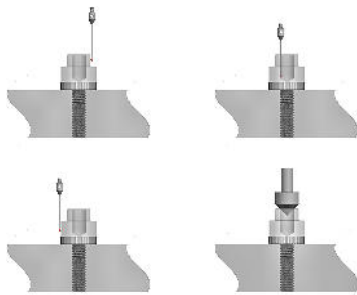
## Group 3

Order No.	M	D1	D2	D3
CLL-PM16x2.0	M16 x 2.0	30.0 mm	20.0 mm	15.0 mm
CLL-PM20x2.5	M20 x 2.5	30.0 mm	20.0 mm	15.0 mm
CLL-PM24x3.0	M24 x 3.0	30.0 mm	20.0 mm	15.0 mm

### SOLUTIONS@ "How it works"

PWM Centerline Locators are sold in cost-effective packs of 10, 25 or 100 pieces. Custom sizes are available in minimum orders of 25 pieces.

All Centerline Locators are available by special order in 303 Stainless Steel. Contact us for details.



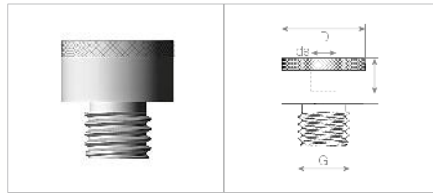
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## Thread Positioning Inserts

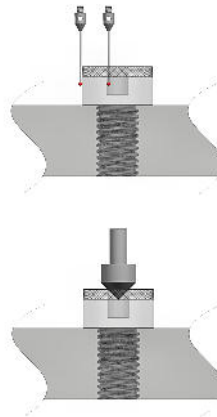


⊕ Stainless Steel

Order No.	L	D	G	ds
TPI-N2.0-0.4NGP	8.0	8.0	M2x.4	3.0
TPI-N2.5-0.45NGP	8.0	8.0	M2.5x.45	3.0
TPI-N3.0-0.5NGP	8.0	8.0	M3x.5	3.0
TPI-N4.0-0.7NGP	8.0	8.0	M4x.7	3.0
TPI-N5.0-0.8NGP	9.0	14.0	M5x.8	4.0
TPI-N6.0-1.0NGP	9.0	14.0	M6x1.0	4.0
TPI-N7.0-1.0NGP	9.0	14.0	M7x1.0	4.0
TPI-N8.0-1.25NGP	9.0	14.0	M8x1.25	4.0
TPI-N9.0-1.25NGP	9.0	14.0	M9x1.25	4.0
TPI-N10.0-1.5NGP	9.0	14.0	M10x1.5	4.0
TPI-N11.0-1.5NGP	11.0	20.0	M11x1.5	6.0
TPI-N12.0-1.75NGP	11.0	20.0	M12x1.75	6.0
TPI-N14.0-2.0NGP	11.0	20.0	M14x2.0	6.0
TPI-N16.0-2.0NGP	11.0	20.0	M16x2.0	6.0
TPI-N18.0-2.5NGP	15.0	28.0	M18x2.5	6.0
TPI-N20.0-2.5NGP	15.0	28.0	M20x2.5	6.0
TPI-N24.0-3.0NGP	15.0	28.0	M24x3.0	6.0

SOLUTIONS®  
"How it works"

Select thread where you need to measure, screw in a threaded position insert and measure the outside or inside diameters for coordinates.



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Thread Positioning Inserts, Metric  
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## Thread Positioning Inserts Kits

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- ⊕ Stainless Steel
- ⊕ Includes wooden case

PWM Order Number TPI-N2-10NGSA, 24 piece set		
Contents	G	Qty.
TPI-N2.0-0.4NGP	M2 x 0.4	3
TPI-N2.5-.45NGP	M2.5 x .45	3
TPI-N3.0-0.5NGP	M3 x 0.5	3
TPI-N4.0-0.7NGP	M4 x 0.7	3
TPI-N5.0-0.8NGP	M5 x 0.8	3
TPI-N6.0-1.0NGP	M6 x 1.0	3
TPI-N8.0-1.25NGP	M8 x 1.25	3
TPI-N10.0-1.5NGP	M10 x 1.5	3



- ⊕ Stainless Steel
- ⊕ Includes wood case

PWM Order Number TPI-N12-24NGSB, 12 piece set		
Contents	G	Qty.
TPI-N12.0-1.75NGP	M12 x 1.75	3
TPI-N16.0-2.0NGP	M16 x 2.0	3
TPI-N20.0-2.5NGP	M20 x 2.5	3
TPI-N24.0-3.0NGP	M24 x 3.0	3

SOLUTIONS®  
"How it works"

Thread Positioning Insert kits include a well-built wooden case that protects your collection from dust and damage.

Buy online at [www.shoppwm.com](http://www.shoppwm.com)

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Centerline Locators Kits Thread Positioning Inserts

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Metric / English Conversion Table

MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES
1	0.0394	61	2.4016	121	4.7638	181	7.1260	241	9.4882
2	0.0787	62	2.4409	122	4.8031	182	7.1654	242	9.5276
3	0.1181	63	2.4803	123	4.8425	183	7.2047	243	9.5669
4	0.1575	64	2.5197	124	4.8819	184	7.2441	244	9.6063
5	0.1969	65	2.5591	125	4.9213	185	7.2835	245	9.6457
6	0.2362	66	2.5984	126	4.9606	186	7.3228	246	9.6850
7	0.2756	67	2.6378	127	5.0000	187	7.3622	247	9.7244
8	0.3150	68	2.6772	128	5.0394	188	7.4016	248	9.7638
9	0.3543	69	2.7165	129	5.0787	189	7.4409	249	9.8031
10	0.3937	70	2.7559	130	5.1181	190	7.4803	250	9.8425
11	0.4331	71	2.7953	131	5.1575	191	7.5197	251	9.8819
12	0.4724	72	2.8346	132	5.1969	192	7.5591	252	9.9213
13	0.5118	73	2.8740	133	5.2362	193	7.5984	253	9.9606
14	0.5512	74	2.9134	134	5.2756	194	7.6378	254	10.0000
15	0.5906	75	2.9528	135	5.3150	195	7.6772	255	10.0394
16	0.6299	76	2.9921	136	5.3543	196	7.7165	256	10.0787
17	0.6693	77	3.0315	137	5.3937	197	7.7559	257	10.1181
18	0.7087	78	3.0709	138	5.4331	198	7.7953	258	10.1575
19	0.7480	79	3.1102	139	5.4724	199	7.8346	259	10.1969
20	0.7874	80	3.1496	140	5.5118	200	7.8740	260	10.2362
21	0.8268	81	3.1890	141	5.5512	201	7.9134	261	10.2756
22	0.8661	82	3.2283	142	5.5906	202	7.9528	262	10.3150
23	0.9055	83	3.2677	143	5.6299	203	7.9921	263	10.3543
24	0.9449	84	3.3071	144	5.6693	204	8.0315	264	10.3937
25	0.9843	85	3.3465	145	5.7087	205	8.0709	265	10.4331
26	1.0236	86	3.3858	146	5.7480	206	8.1102	266	10.4724
27	1.0630	87	3.4252	147	5.7874	207	8.1496	267	10.5118
28	1.1024	88	3.4646	148	5.8268	208	8.1890	268	10.5512
29	1.1417	89	3.5039	149	5.8661	209	8.2283	269	10.5906
30	1.1811	90	3.5433	150	5.9055	210	8.2677	270	10.6299
31	1.2205	91	3.5827	151	5.9449	211	8.3071	271	10.6693
32	1.2598	92	3.6220	152	5.9843	212	8.3465	272	10.7087
33	1.2992	93	3.6614	153	6.0236	213	8.3858	273	10.7480
34	1.3386	94	3.7008	154	6.0630	214	8.4252	274	10.7874
35	1.3780	95	3.7402	155	6.1024	215	8.4646	275	10.8268
36	1.4173	96	3.7795	156	6.1417	216	8.5039	276	10.8661
37	1.4567	97	3.8189	157	6.1811	217	8.5433	277	10.9055
38	1.4961	98	3.8583	158	6.2205	218	8.5827	278	10.9449
39	1.5354	99	3.8976	159	6.2598	219	8.6220	279	10.9843
40	1.5748	100	3.9370	160	6.2992	220	8.6614	280	11.0236
41	1.6142	101	3.9764	161	6.3386	221	8.7008	281	11.0630
42	1.6535	102	4.0157	162	6.3780	222	8.7402	282	11.1024
43	1.6929	103	4.0551	163	6.4173	223	8.7795	283	11.1417
44	1.7323	104	4.0945	164	6.4567	224	8.8189	284	11.1811
45	1.7717	105	4.1339	165	6.4961	225	8.8583	285	11.2205
46	1.8110	106	4.1732	166	6.5354	226	8.8976	286	11.2598
47	1.8504	107	4.2126	167	6.5748	227	8.9370	287	11.2992
48	1.8898	108	4.2520	168	6.6142	228	8.9764	288	11.3386
49	1.9291	109	4.2913	169	6.6535	229	9.0157	289	11.3780
50	1.9685	110	4.3307	170	6.6929	230	9.0551	290	11.4173
51	2.0079	111	4.3701	171	6.7323	231	9.0945	291	11.4567
52	2.0472	112	4.4094	172	6.7717	232	9.1339	292	11.4961
53	2.0866	113	4.4488	173	6.8110	233	9.1732	293	11.5354
54	2.1260	114	4.4882	174	6.8504	234	9.2126	294	11.5748
55	2.1654	115	4.5276	175	6.8898	235	9.2520	295	11.6142
56	2.2047	116	4.5669	176	6.9291	236	9.2913	296	11.6535
57	2.2441	117	4.6063	177	6.9685	237	9.3307	297	11.6929
58	2.2835	118	4.6457	178	7.0079	238	9.3701	298	11.7323
59	2.3228	119	4.6850	179	7.0472	239	9.4094	299	11.7717
60	2.3622	120	4.7244	180	7.0866	240	9.4488	300	11.8110

Metric / English Conversion Chart Centerline Locators

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