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14mm PITCH - POLYCHAIN GT / GT2 / CARBON

Pitch Diameter (PD) Calculation

$$PD = (\text{Pitch} \times \text{Number of Teeth}) / \pi$$

Variables:

Pitch 14 mm
 Number of teeth 28 Teeth
 Pi (π) 3.14159265 Pi

Result:

PD (Pitch Diameter) = 4.912 inches

Outside Diameter (O.D.) Calculation

$$O.D. = [(\text{Pitch} \times \text{Number of Teeth}) / \pi] - (2 \times \text{Distance from belt pitch line to belt tooth bottom})$$

Variables:

Pitch 14 mm
 Number of teeth 28 Teeth
 Pi (π) 3.14159265 Pi
 Distance from belt pitch line to belt tooth bottom 0.055 inches

Result:

O.D. (Outside Diameter) 4.802 inches

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
14				
15				
16				
17				
18				
19				
20				
21				
22				
23	4.035	3.925	102.50	99.70
24	4.211	4.101	106.95	104.16
25	4.386	4.276	111.41	108.61
26	4.562	4.452	115.86	113.07
27	4.737	4.627	120.32	117.53
28	4.912	4.802	124.78	121.98
29	5.088	4.978	129.23	126.44
30	5.263	5.153	133.69	130.90
31	5.439	5.329	138.15	135.35
32	5.614	5.504	142.60	139.81
33	5.790	5.680	147.06	144.27
34	5.965	5.855	151.52	148.72
35	6.141	6.031	155.97	153.18
36	6.316	6.206	160.43	157.63
37	6.491	6.381	164.88	162.09
38	6.667	6.557	169.34	166.55
39	6.842	6.732	173.80	171.00
40	7.018	6.908	178.25	175.46
41	7.193	7.083	182.71	179.92
42	7.369	7.259	187.17	184.37
43	7.544	7.434	191.62	188.83
44	7.720	7.610	196.08	193.28
45	7.895	7.785	200.54	197.74
46	8.071	7.961	204.99	202.20
47	8.246	8.136	209.45	206.65
48	8.421	8.311	213.90	211.11
49	8.597	8.487	218.36	215.57

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
50	8.772	8.662	222.82	220.02
51	8.948	8.838	227.27	224.48
52	9.123	9.013	231.73	228.94
53	9.299	9.189	236.19	233.39
54	9.474	9.364	240.64	237.85
55	9.650	9.540	245.10	242.30
56	9.825	9.715	249.55	246.76
57	10.000	9.890	254.01	251.22
58	10.176	10.066	258.47	255.67
59	10.351	10.241	262.92	260.13
60	10.527	10.417	267.38	264.59
61	10.702	10.592	271.84	269.04
62	10.878	10.768	276.29	273.50
63	11.053	10.943	280.75	277.96
64	11.229	11.119	285.21	282.41
65	11.404	11.294	289.66	286.87
66	11.579	11.469	294.12	291.32
67	11.755	11.645	298.57	295.78
68	11.930	11.820	303.03	300.24
69	12.106	11.996	307.49	304.69
70	12.281	12.171	311.94	309.15
71	12.457	12.347	316.40	313.61
72	12.632	12.522	320.86	318.06
73	12.808	12.698	325.31	322.52
74	12.983	12.873	329.77	326.98
75	13.158	13.048	334.23	331.43
76	13.334	13.224	338.68	335.89
77	13.509	13.399	343.14	340.34
78	13.685	13.575	347.59	344.80
79	13.860	13.750	352.05	349.26
80	14.036	13.926	356.51	353.71
81				
82				
83				
84				
85				