

# PFEIFER INDUSTRIES, LLC.

2180 Corporate Lane, Suite 104 ~ Naperville, IL 60563-1639 USA

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## 8mm - CTD / C8M

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
8 teeth				
9 teeth				
10 teeth				
11 teeth				
12 teeth				
13 teeth				
14 teeth	1.404"	1.341"	35.65mm	34.05mm
15 teeth	1.504"	1.441"	38.20mm	36.60mm
16 teeth	1.604"	1.541"	40.74mm	39.14mm
17 teeth	1.704"	1.641"	43.29mm	41.69mm
18 teeth	1.805"	1.742"	45.84mm	44.24mm
19 teeth	1.905"	1.842"	48.38mm	46.78mm
20 teeth	2.005"	1.942"	50.93mm	49.33mm
21 teeth	2.105"	2.042"	53.48mm	51.88mm
22 teeth	2.206"	2.143"	56.02mm	54.42mm
23 teeth	2.306"	2.243"	58.57mm	56.97mm
24 teeth	2.406"	2.343"	61.12mm	59.52mm
25 teeth	2.506"	2.443"	63.66mm	62.06mm
26 teeth	2.607"	2.544"	66.21mm	64.61mm
27 teeth	2.707"	2.644"	68.75mm	67.15mm
28 teeth	2.807"	2.744"	71.30mm	69.70mm
29 teeth	2.907"	2.844"	73.85mm	72.25mm
30 teeth	3.008"	2.945"	76.39mm	74.79mm
31 teeth	3.108"	3.045"	78.94mm	77.34mm
32 teeth	3.208"	3.145"	81.49mm	79.89mm
33 teeth	3.308"	3.245"	84.03mm	82.43mm
34 teeth	3.409"	3.346"	86.58mm	84.98mm
35 teeth	3.509"	3.446"	89.13mm	87.53mm
36 teeth	3.609"	3.546"	91.67mm	90.07mm
37 teeth	3.709"	3.646"	94.22mm	92.62mm
38 teeth	3.810"	3.747"	96.77mm	95.17mm
39 teeth	3.910"	3.847"	99.31mm	97.71mm
40 teeth	4.010"	3.947"	101.86mm	100.26mm
41 teeth	4.110"	4.047"	104.41mm	102.81mm
42 teeth	4.211"	4.148"	106.95mm	105.35mm
43 teeth	4.311"	4.248"	109.50mm	107.90mm
44 teeth	4.411"	4.348"	112.05mm	110.44mm
45 teeth	4.511"	4.448"	114.59mm	112.99mm
46 teeth	4.612"	4.549"	117.14mm	115.54mm
47 teeth	4.712"	4.649"	119.68mm	118.08mm

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
48 teeth	4.812"	4.749"	122.23mm	120.63mm
49 teeth	4.912"	4.849"	124.78mm	123.18mm
50 teeth	5.013"	4.950"	127.32mm	125.72mm
51 teeth	5.113"	5.050"	129.87mm	128.27mm
52 teeth	5.213"	5.150"	132.42mm	130.82mm
53 teeth	5.314"	5.251"	134.96mm	133.36mm
54 teeth	5.414"	5.351"	137.51mm	135.91mm
55 teeth	5.514"	5.451"	140.06mm	138.46mm
56 teeth	5.614"	5.551"	142.60mm	141.00mm
57 teeth	5.715"	5.652"	145.15mm	143.55mm
58 teeth	5.815"	5.752"	147.70mm	146.10mm
59 teeth	5.915"	5.852"	150.24mm	148.64mm
60 teeth	6.015"	5.952"	152.79mm	151.19mm
61 teeth	6.116"	6.053"	155.34mm	153.74mm
62 teeth	6.216"	6.153"	157.88mm	156.28mm
63 teeth	6.316"	6.253"	160.43mm	158.83mm
64 teeth	6.416"	6.353"	162.97mm	161.37mm
65 teeth	6.517"	6.454"	165.52mm	163.92mm
66 teeth	6.617"	6.554"	168.07mm	166.47mm
67 teeth	6.717"	6.654"	170.61mm	169.01mm
68 teeth	6.817"	6.754"	173.16mm	171.56mm
69 teeth	6.918"	6.855"	175.71mm	174.11mm
70 teeth	7.018"	6.955"	178.25mm	176.65mm
71 teeth	7.118"	7.055"	180.80mm	179.20mm
72 teeth	7.218"	7.155"	183.35mm	181.75mm
73 teeth	7.319"	7.256"	185.89mm	184.29mm
74 teeth	7.419"	7.356"	188.44mm	186.84mm
75 teeth	7.519"	7.456"	190.99mm	189.39mm
76 teeth	7.619"	7.556"	193.53mm	191.93mm
77 teeth	7.720"	7.657"	196.08mm	194.48mm
78 teeth	7.820"	7.757"	198.63mm	197.03mm
79 teeth	7.920"	7.857"	201.17mm	199.57mm
80 teeth	8.020"	7.957"	203.72mm	202.12mm
81 teeth	8.121"	8.058"	206.26mm	204.66mm
82 teeth	8.221"	8.158"	208.81mm	207.21mm
83 teeth	8.321"	8.258"	211.36mm	209.76mm
84 teeth	8.421"	8.358"	213.90mm	212.30mm
85 teeth	8.522"	8.459"	216.45mm	214.85mm
86 teeth	8.622"	8.559"	219.00mm	217.40mm
87 teeth	8.722"	8.659"	221.54mm	219.94mm

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## 8mm - CTD / C8M

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
88 teeth	8.822"	8.759"	224.09mm	222.49mm
89 teeth	8.923"	8.860"	226.64mm	225.04mm
90 teeth	9.023"	8.960"	229.18mm	227.58mm
91 teeth	9.123"	9.060"	231.73mm	230.13mm
92 teeth	9.223"	9.160"	234.28mm	232.68mm
93 teeth	9.324"	9.261"	236.82mm	235.22mm
94 teeth	9.424"	9.361"	239.37mm	237.77mm
95 teeth	9.524"	9.461"	241.92mm	240.32mm
96 teeth	9.624"	9.561"	244.46mm	242.86mm
97 teeth	9.725"	9.662"	247.01mm	245.41mm
98 teeth	9.825"	9.762"	249.55mm	247.95mm
99 teeth	9.925"	9.862"	252.10mm	250.50mm
100 teeth	10.026"	9.963"	254.65mm	253.05mm
101 teeth	10.126"	10.063"	257.19mm	255.59mm
102 teeth	10.226"	10.163"	259.74mm	258.14mm
103 teeth	10.326"	10.263"	262.29mm	260.69mm
104 teeth	10.427"	10.364"	264.83mm	263.23mm
105 teeth	10.527"	10.464"	267.38mm	265.78mm
106 teeth	10.627"	10.564"	269.93mm	268.33mm
107 teeth	10.727"	10.664"	272.47mm	270.87mm
108 teeth	10.828"	10.765"	275.02mm	273.42mm
109 teeth	10.928"	10.865"	277.57mm	275.97mm
110 teeth	11.028"	10.965"	280.11mm	278.51mm
111 teeth	11.128"	11.065"	282.66mm	281.06mm
112 teeth	11.229"	11.166"	285.21mm	283.61mm
113 teeth	11.329"	11.266"	287.75mm	286.15mm
114 teeth	11.429"	11.366"	290.30mm	288.70mm
115 teeth	11.529"	11.466"	292.85mm	291.24mm
116 teeth	11.630"	11.567"	295.39mm	293.79mm
117 teeth	11.730"	11.667"	297.94mm	296.34mm
118 teeth	11.830"	11.767"	300.48mm	298.88mm
119 teeth	11.930"	11.867"	303.03mm	301.43mm
120 teeth	12.031"	11.968"	305.58mm	303.98mm
121 teeth	12.131"	12.068"	308.12mm	306.52mm
122 teeth	12.231"	12.168"	310.67mm	309.07mm
123 teeth	12.331"	12.268"	313.22mm	311.62mm
124 teeth	12.432"	12.369"	315.76mm	314.16mm
125 teeth	12.532"	12.469"	318.31mm	316.71mm
126 teeth	12.632"	12.569"	320.86mm	319.26mm
127 teeth	12.732"	12.669"	323.40mm	321.80mm

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
128 teeth	12.833"	12.770"	325.95mm	324.35mm
129 teeth	12.933"	12.870"	328.50mm	326.90mm
130 teeth	13.033"	12.970"	331.04mm	329.44mm
131 teeth	13.133"	13.070"	333.59mm	331.99mm
132 teeth	13.234"	13.171"	336.14mm	334.54mm
133 teeth	13.334"	13.271"	338.68mm	337.08mm
134 teeth	13.434"	13.371"	341.23mm	339.63mm
135 teeth	13.534"	13.471"	343.77mm	342.17mm
136 teeth	13.635"	13.572"	346.32mm	344.72mm
137 teeth	13.735"	13.672"	348.87mm	347.27mm
138 teeth	13.835"	13.772"	351.41mm	349.81mm
139 teeth	13.935"	13.872"	353.96mm	352.36mm
140 teeth	14.036"	13.973"	356.51mm	354.91mm
141 teeth	14.136"	14.073"	359.05mm	357.45mm
142 teeth	14.236"	14.173"	361.60mm	360.00mm
143 teeth	14.336"	14.273"	364.15mm	362.55mm
144 teeth	14.437"	14.374"	366.69mm	365.09mm
145 teeth	14.537"	14.474"	369.24mm	367.64mm
146 teeth	14.637"	14.574"	371.79mm	370.19mm
147 teeth	14.737"	14.674"	374.33mm	372.73mm
148 teeth	14.838"	14.775"	376.88mm	375.28mm
149 teeth	14.938"	14.875"	379.43mm	377.83mm
150 teeth	15.038"	14.975"	381.97mm	380.37mm
151 teeth	15.139"	15.076"	384.52mm	382.92mm
152 teeth	15.239"	15.176"	387.06mm	385.46mm
153 teeth	15.339"	15.276"	389.61mm	388.01mm
154 teeth	15.439"	15.376"	392.16mm	390.56mm
155 teeth	15.540"	15.477"	394.70mm	393.10mm
156 teeth	15.640"	15.577"	397.25mm	395.65mm
157 teeth	15.740"	15.677"	399.80mm	398.20mm
158 teeth	15.840"	15.777"	402.34mm	400.74mm
159 teeth	15.941"	15.878"	404.89mm	403.29mm
160 teeth	16.041"	15.978"	407.44mm	405.84mm
161 teeth	16.141"	16.078"	409.98mm	408.38mm
162 teeth	16.241"	16.178"	412.53mm	410.93mm
163 teeth	16.342"	16.279"	415.08mm	413.48mm
164 teeth	16.442"	16.379"	417.62mm	416.02mm
165 teeth	16.542"	16.479"	420.17mm	418.57mm
166 teeth	16.642"	16.579"	422.72mm	421.12mm
167 teeth	16.743"	16.680"	425.26mm	423.66mm

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## 8mm - CTD / C8M

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
168 teeth	16.843"	16.780"	427.81mm	426.21mm
169 teeth	16.943"	16.880"	430.35mm	428.75mm
170 teeth	17.043"	16.980"	432.90mm	431.30mm
171 teeth	17.144"	17.081"	435.45mm	433.85mm
172 teeth	17.244"	17.181"	437.99mm	436.39mm
173 teeth	17.344"	17.281"	440.54mm	438.94mm
174 teeth	17.444"	17.381"	443.09mm	441.49mm
175 teeth	17.545"	17.482"	445.63mm	444.03mm
176 teeth	17.645"	17.582"	448.18mm	446.58mm
177 teeth	17.745"	17.682"	450.73mm	449.13mm
178 teeth	17.845"	17.782"	453.27mm	451.67mm
179 teeth	17.946"	17.883"	455.82mm	454.22mm
180 teeth	18.046"	17.983"	458.37mm	456.77mm
181 teeth	18.146"	18.083"	460.91mm	459.31mm
182 teeth	18.246"	18.183"	463.46mm	461.86mm
183 teeth	18.347"	18.284"	466.01mm	464.41mm
184 teeth	18.447"	18.384"	468.55mm	466.95mm
185 teeth	18.547"	18.484"	471.10mm	469.50mm
186 teeth	18.647"	18.584"	473.65mm	472.04mm
187 teeth	18.748"	18.685"	476.19mm	474.59mm
188 teeth	18.848"	18.785"	478.74mm	477.14mm
189 teeth	18.948"	18.885"	481.28mm	479.68mm
190 teeth	19.048"	18.985"	483.83mm	482.23mm
191 teeth	19.149"	19.086"	486.38mm	484.78mm
192 teeth	19.249"	19.186"	488.92mm	487.32mm
193 teeth	19.349"	19.286"	491.47mm	489.87mm
194 teeth	19.449"	19.386"	494.02mm	492.42mm
195 teeth	19.550"	19.487"	496.56mm	494.96mm
196 teeth	19.650"	19.587"	499.11mm	497.51mm
197 teeth	19.750"	19.687"	501.66mm	500.06mm
198 teeth	19.850"	19.787"	504.20mm	502.60mm
199 teeth	19.951"	19.888"	506.75mm	505.15mm
200 teeth	20.051"	19.988"	509.30mm	507.70mm
201 teeth	20.151"	20.088"	511.84mm	510.24mm
202 teeth	20.252"	20.189"	514.39mm	512.79mm
203 teeth	20.352"	20.289"	516.94mm	515.34mm
204 teeth	20.452"	20.389"	519.48mm	517.88mm
205 teeth	20.552"	20.489"	522.03mm	520.43mm
206 teeth	20.653"	20.590"	524.57mm	522.97mm
207 teeth	20.753"	20.690"	527.12mm	525.52mm

Number of Teeth	Inches (in)		Metric (mm)	
	Pitch Diameter (PD)	Outside Diameter (O.D.)	Pitch Diameter (PD)	Outside Diameter (O.D.)
208 teeth	20.853"	20.790"	529.67mm	528.07mm
209 teeth	20.953"	20.890"	532.21mm	530.61mm
210 teeth	21.054"	20.991"	534.76mm	533.16mm
211 teeth	21.154"	21.091"	537.31mm	535.71mm
212 teeth	21.254"	21.191"	539.85mm	538.25mm
213 teeth	21.354"	21.291"	542.40mm	540.80mm
214 teeth	21.455"	21.392"	544.95mm	543.35mm
215 teeth	21.555"	21.492"	547.49mm	545.89mm
216 teeth	21.655"	21.592"	550.04mm	548.44mm
217 teeth	21.755"	21.692"	552.59mm	550.99mm
218 teeth	21.856"	21.793"	555.13mm	553.53mm
219 teeth	21.956"	21.893"	557.68mm	556.08mm
220 teeth	22.056"	21.993"	560.23mm	558.63mm
221 teeth	22.156"	22.093"	562.77mm	561.17mm
222 teeth	22.257"	22.194"	565.32mm	563.72mm
223 teeth	22.357"	22.294"	567.86mm	566.26mm
224 teeth	22.457"	22.394"	570.41mm	568.81mm
225 teeth				
226 teeth				
227 teeth				
228 teeth				
229 teeth				
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