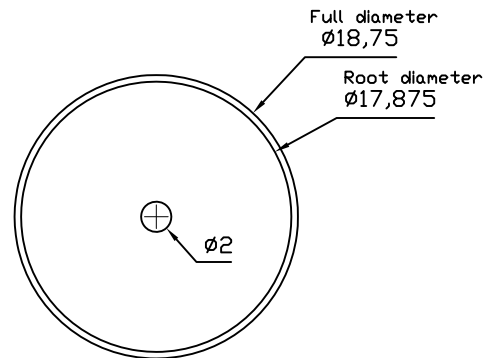


Third Wheel  
 No. of Teeth : 75  
 Pitch Circle: 18.75mm  
 Full Diameter: 19.375mm  
 Root Diameter: 17.875mm  
 Tooth thickness: 0.3525mm  
 Addendum radius: 0.5mm  
 Addendum: 0.3125mm  
 Dedendum: 0.4375mm  
 Full tooth depth: 0.75mm



$$(t-1.4)M = (10-1.4)(0.25) = 2.15\text{mm}$$

$$\frac{2}{3} (\text{pinion FD}) = \frac{2}{3} (2.9025) = 1.935$$

Pinion  
 No. of leaves: 10  
 Pitch circle: 2.5mm  
 Full diameter: 2.9025mm  
 Root diameter: 1.475mm  
 Leaf thickness: 0.3125mm  
 Addendum radius: 0.205mm  
 Addendum form:  $\frac{1}{3}$  ogive  
 Tooth/pitch ratio:  $\frac{2}{5}$   
 Addendum: 0.20125mm  
 Dedendum: 0.5125mm  
 Full Tooth depth: 0.68875mm

