

$$i=4 \quad z_1=18 \quad m=2$$

$$d_{p2} ; a = ?$$

$$d_{p1} = m \cdot z_1 = 2 \cdot 18 = 38 \text{ mm}$$

$$i = \frac{z_2}{z_1} \rightarrow 4 = \frac{z_2}{18} \rightarrow z_2 = 4 \cdot 18 = 76 \text{ teeth}$$

$$d_{p2} = m \cdot z_2 = 2 \cdot 76 = 152 \text{ mm}$$

$$a = \frac{d_{p1} + d_{p2}}{2} = \frac{38 + 152}{2} = \frac{190}{2} = 95 \text{ mm}$$
