Handle: $\Sigma M_O = 0; 30R - 180(150) = 0$, $R = 900 \text{ N}$

Jaw: $\Sigma M_A = 0; 20Q - 60(900) = 0$, $Q = 2700 \text{ N}$

or $Q = 2.7 \text{ kN}$
From tongs as a whole
\[ D_y = \frac{1}{2}(800) = 400 \text{ lb} = F_y \]

From ED,
\[ D_x = \frac{18}{12} D_y = \frac{18}{12}(400) = 600 \text{ lb} \]

From DF, \( \sum M_F = 0 \),
\[ F_{AB}(24) - 600(44) - 400(18 + 15) = 0 \]
\[ F_{AB} = 1650 \text{ lb tension} \]