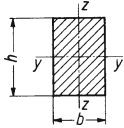
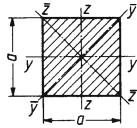
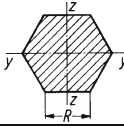
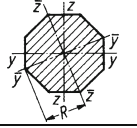
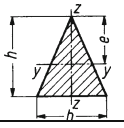
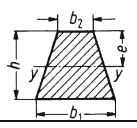
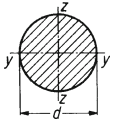
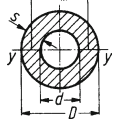
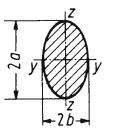
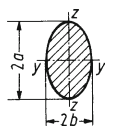
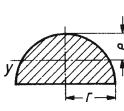
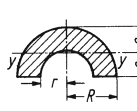
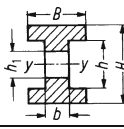

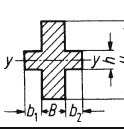
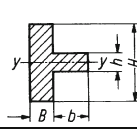
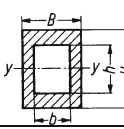
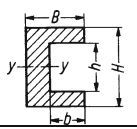
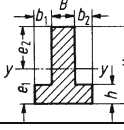
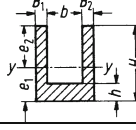


Tabelle 1. Axiale Flächenmomente 2. Grades und Widerstandsmomente

 $I_y = \frac{bh^3}{12}$ $I_z = \frac{bh^3}{12}$ $W_y = \frac{bh^2}{6}$ $W_z = \frac{bh^2}{6}$	 $I_y = I_z = \frac{a^4}{12}$ $W_y = W_z = \frac{a^3}{6}$ $I_{\bar{y}} = I_{\bar{z}} = \frac{a^4}{12}$ $W_{\bar{y}} = W_{\bar{z}} = \frac{\sqrt{2}}{12} a^3 = 0,118 a^3$
 $I_y = I_z = \frac{5\sqrt{3}}{16} R^4 = 0,5413 R^4$ $W_y = W_z = \frac{5}{8} R^3 = 0,625 R^3$ $W_z = \frac{5\sqrt{3}}{16} R^3 = 0,5413 R^3$	 $I_y = I_z = (1 + 2\sqrt{2}) \frac{R^4}{6} = 0,638 R^4$ $W_y = W_z = 0,6906 R^3$ $I_{\bar{y}} = I_{\bar{z}} = (1 + 2\sqrt{2}) \frac{R^4}{6} = 0,638 R^4$ $W_{\bar{y}} = W_{\bar{z}} = 0,638 R^3$
 $I_y = \frac{bh^3}{36}$ $I_z = \frac{bh^3}{48}$ $W_y = \frac{bh^2}{24} \text{ für } e = \frac{2}{3} h$ $W_z = \frac{bh^2}{24}$	 $I_y = \frac{h^3}{36} \frac{b_1^2 + 4b_1b_2 + b_2^2}{b_1 + b_2}$ $W_y = \frac{h^2}{12} \frac{b_1^2 + 4b_1b_2 + b_2^2}{2b_1 + b_2}$ $\text{für } e = \frac{h}{3} \frac{2b_1 + b_2}{b_1 + b_2}$
 $I_y = I_z = \frac{\pi d^4}{64}$ $W_y = W_z = \frac{\pi d^3}{32}$	 $I_y = I_z = \frac{\pi (D^4 - d^4)}{64}$ $W_y = W_z = \frac{\pi (D^4 - d^4)}{32 D}$ <p>bei geringer Wanddicke $\left(\frac{s}{d_m}\right)^2 \ll 1$:</p> $I_y = I_z = \frac{\pi d_m^3 s}{8}, W_y = W_z = \frac{\pi d_m^2 s}{4}$
 $I_y = \frac{\pi a^3 b}{4}$ $I_z = \frac{\pi b^3 a}{4}$ $W_y = \frac{\pi a^2 b}{4}$ $W_z = \frac{\pi b^2 a}{4}$	 $I_y = \frac{\pi}{4} (a_1^3 b_1 - a_2^3 b_2)$ $W_y = \frac{\pi (a_1^3 b_1 - a_2^3 b_2)}{4 a_1}$ <p>bei geringer Wanddicke:</p> $I_y = \frac{\pi a^2 (a + 3b)s}{4}, W_y = \frac{\pi a (a + 3b)s}{4}$
 $I_y = \left(\frac{\pi}{8} - \frac{8}{9\pi}\right) r^4 = 0,1098 r^4$ $W_y = I_y / e = 0,1908 r^2$ <p>für $e = \left(1 - \frac{4}{3\pi}\right) r = 0,5756 r$</p>	 $I_y = 0,1098 (R^4 - r^4) - 0,283 R^2 r^2 \frac{R-r}{R+r}$ $W_{y1,2} = I_y / e_{1,2}$ <p>für $e_1 = \frac{4}{3\pi} \frac{R^2 + Rr + r^2}{R+r}$ bzw. $e_2 = R - e_1$</p>
	 $I_y = \frac{B(H^3 - h^3) + b(h^3 - h_1^3)}{12}$ $W_y = \frac{B(H^3 - h^3) + b(h^3 - h_1^3)}{6H}$
	 $I_y = \frac{BH^3 + bh^3}{12}$ $W_y = \frac{BH^3 + bh^3}{6H}$ <p>mit $B = B_1 + B_2$ $b = b_1 + b_2$</p>
	 $I_y = \frac{BH^3 - bh^3}{12}$ $W_y = \frac{BH^3 - bh^3}{6H}$ <p>mit $b = b_1 + b_2$</p>
	 $I_y = \frac{BH^3 + bh^3}{3} - (BH + bh) e_1^2$ <p>mit $B = B_1 + B_2, b = b_1 + b_2$ $W_{y1,2} = I_y / e_{1,2}$ für $e_1 = \frac{1}{2} \frac{BH^2 + bh^2}{BH + bh}$ bzw. $e_2 = H - e_1$</p>