Tubo Center S.A.
Todo para el herrero, la industria y la construcción

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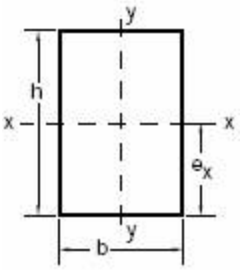
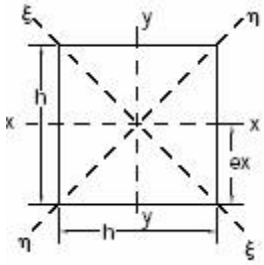
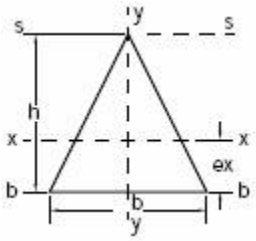
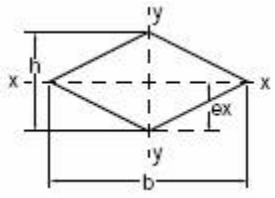
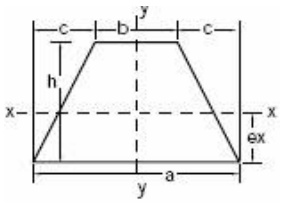
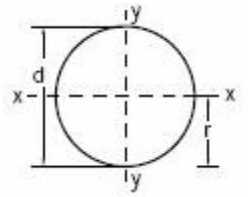
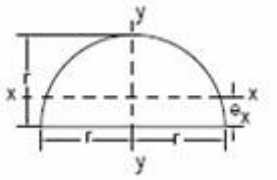
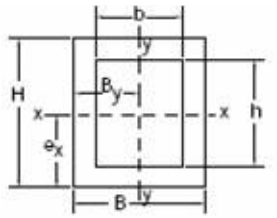
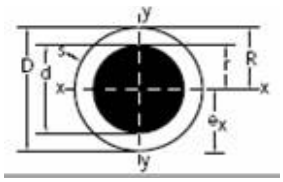
Áreas, baricentros, momentos de inercia y resistentes

Sección	Area y otros datos	Distancia baricéntrica	Momento de inercia	Momento resistente y otros datos mínimo
	$F = bh$	$e_x = \frac{h}{2}$ $e_y = \frac{b}{2}$	$J_x = \frac{bh^3}{12}$ $J_b = \frac{bh^3}{3}$ $J_y = \frac{hb^3}{12}$	$W_x = \frac{bh^2}{6}$ $W_x = \frac{hb^2}{6}$
	$F = h^2$	$e_x = e_y = \frac{h}{2}$ $e_\xi = e_\eta = \frac{h}{2}\sqrt{2}$	$J_x = J_y = \frac{h^4}{12}$ $J_\xi = J_\eta = \frac{h^4}{12}$	$W_x = W_y = \frac{h^3}{6}$ $W_\xi = W_\eta = \frac{h}{6} = \frac{\sqrt{2}}{12} h^3$ $\approx 0{,}1178\ h^3$
	$F = \frac{bh}{2}$	$e_x = \frac{1}{3} h$	$J_x = \frac{bh^3}{36}$ $J_y = \frac{hb^3}{48}$ $J_b = \frac{bh^3}{12}$ $J_s = \frac{bh^3}{4}$	$W_x = \frac{bh^2}{24}$ $W_y = \frac{hb^2}{24}$
	$F = \frac{\sqrt{3}}{2} r^2\sqrt{3}$	$e_x = \frac{a}{2} \approx 0{,}866\ r$ $e_y = r$ $a = r\sqrt{3}$, $r = \frac{a}{\sqrt{3}}$	$\left.\begin{matrix} J_x = J_y \\ J_\xi = J_\eta \end{matrix}\right\} = \frac{5\sqrt{3}}{144} a^4$ $\approx 0{,}060\ a^4$	$W_x = W_\xi = \frac{5\sqrt{3}}{72} a^3$ $\approx 0{,}1203\ a^3$ $W_y = W_\eta = \frac{5}{48} a^3$ $\approx 0{,}1042\ a^3$

	$F=\frac{h}{2}(a+b)$	$e_x=\frac{h}{3}\frac{a+2b}{a+b}$	$J_x=\frac{h^3}{36}\frac{a^2+4ab+b^2}{a+b}$ $J_y=\frac{h}{48}(a^3+a^2b+ab^2+b^3)$	$W_x=\frac{J_x}{h-e_x}$ $W_y=\frac{2J_y}{a}$
	$F=\pi r^2=\frac{\pi d^2}{4}$ perimetro$=d\pi$	$e_x=\frac{d}{2}$	$J_x=J_y=\frac{\pi d^4}{64}=\frac{\pi r^4}{4}$ $\approx 0{,}05\ d^4 \approx 0{,}7854\ r^4$	$W_x=W_y=\frac{\pi d^3}{32}=\frac{\pi r^3}{4}$ $\approx 0{,}1\ d^3 \approx 0{,}7854\ r^3$
	$F=\frac{\pi}{2}r^2=1{,}57080\ r^2$	$e_x=\frac{4r}{3\pi}\ r^2 \approx 0{,}4244\ r$	$J_x=r^4\left(\frac{\pi}{8}-\frac{8}{9\pi}\right)\approx 0{,}1098 r^4$ $J_y=\frac{r^4\pi}{8}\approx 0{,}3927 r^4$	$W_x \approx 0{,}1907 r^3$ $W_y=\frac{\pi r^3}{8}\approx 0{,}3927 r^3$
	$F=BH-bh$	$e_x=\frac{H}{2}$ $e_y=\frac{B}{2}$	$J_x=\frac{1}{12}(BH^3-bh^3)$ $J_y=\frac{1}{12}(HB^3-hb^3)$	$W_x=\frac{1}{6H}(BH^3-bh^3)$ $W_y=\frac{1}{6B}(HB^3-hb^3)$
	$F=\frac{\pi}{4}(D^2-d^2)$	$e_x=e_y=\frac{D}{2}$	$J_x = J_y \begin{cases} \frac{\pi}{64}(D^4-d^4) \\ \frac{\pi}{4}(R^4-r^4) \end{cases}$	$W_x = W_y \begin{cases} \frac{\pi}{64}\frac{D^4-d^4}{D} \\ \frac{\pi}{4}\frac{(R^4-r^4)}{R} \end{cases}$