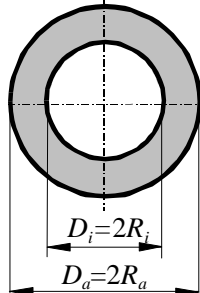
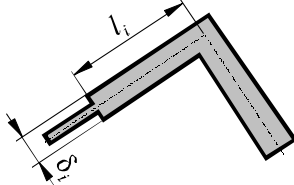
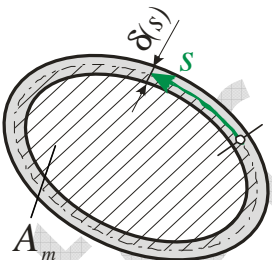
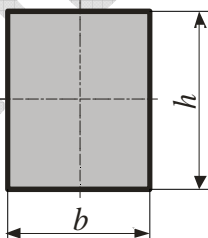


## Trägheits- und Widerstandsmomente gegenüber Torsion

Querschnitt	$I_t$	$W_t$																		
Kreis ( $R_i=0$ ), Kreisring 	$\frac{\pi}{2} (R_a^4 - R_i^4) =$ $\frac{\pi}{32} (D_a^4 - D_i^4)$	$\frac{\pi}{2} \frac{R_a^4 - R_i^4}{R_a} =$ $\frac{\pi}{16} \frac{D_a^4 - D_i^4}{D_a}$																		
dünnwandig offen 	$\frac{1}{3} \sum_{i=1}^n l_i \delta_i^3$	$\frac{I_t}{\delta_{i \max}}$																		
dünnwandig geschlossen 	$\frac{4 A_m^2}{\oint \frac{1}{\delta(s)} ds}$	$2 A_m \delta_{\min}$																		
Rechteck ( $h > b$ ) 	$c_1 h b^3$	$c_2 h b^2$																		
	<table border="1"> <thead> <tr> <th><math>h/b</math></th> <th>1</th> <th>1,5</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td><math>c_1</math></td> <td>0,141</td> <td>0,196</td> <td>0,229</td> <td>0,263</td> <td>0,281</td> </tr> <tr> <td><math>c_2</math></td> <td>0,208</td> <td>0,231</td> <td>0,246</td> <td>0,267</td> <td>0,282</td> </tr> </tbody> </table>	$h/b$	1	1,5	2	3	4	$c_1$	0,141	0,196	0,229	0,263	0,281	$c_2$	0,208	0,231	0,246	0,267	0,282	
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