

Maryland Metrics metric module gear tooth profile chart

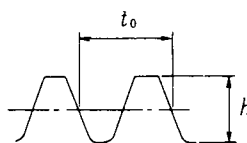
Modules $m0.5$ to $m10$

The following tooth shapes show rack tooth profiles by module.

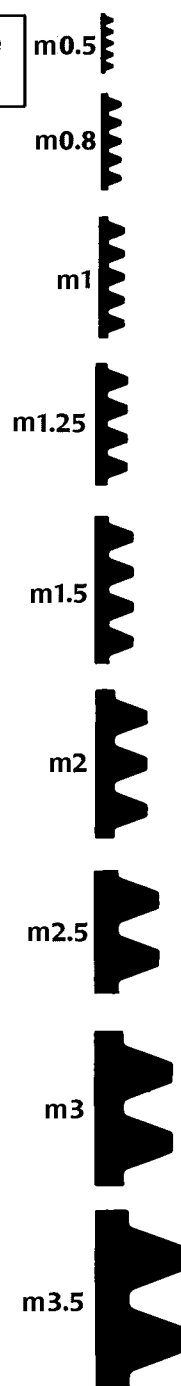
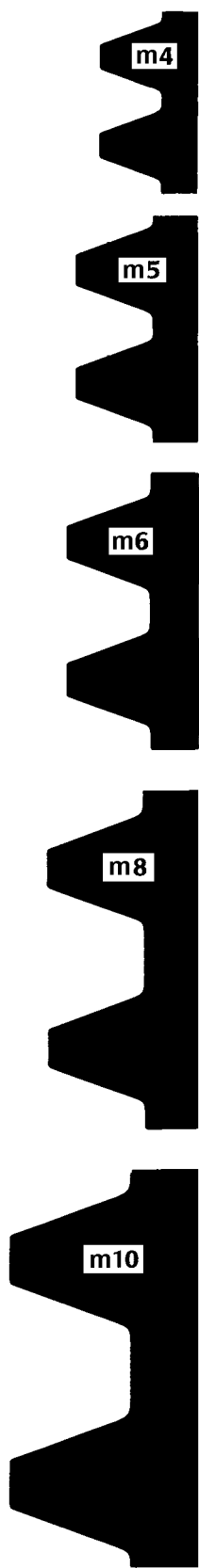
$$t_0 = \pi m \quad h = 2.25m$$

$m = \text{Module}$

(Dimension h varies with backlash and error in outside diameter)

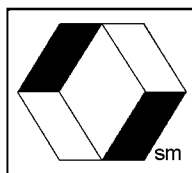


Actual size profiles



m0.5	m0.8	m1	m1.25
$t_0 = 1.570$ $h = 1.12$	$t_0 = 2.513$ $h = 1.80$	$t_0 = 3.141$ $h = 2.25$	$t_0 = 3.927$ $h = 2.81$
m1.5	m2	m2.5	m3
$t_0 = 4.712$ $h = 3.38$	$t_0 = 6.283$ $h = 4.50$	$t_0 = 7.854$ $h = 5.63$	$t_0 = 9.426$ $h = 6.75$
m3.5	m4	m5	m6
$t_0 = 10.996$ $h = 7.88$	$t_0 = 12.568$ $h = 9.00$	$t_0 = 15.707$ $h = 11.25$	$t_0 = 18.849$ $h = 13.50$
m8	m10	<p>Some relationships between the Inch system and Metric module system of gearing.</p> <p>$m = \text{module} \quad p_d = \text{diametrical pitch}$</p> $m = \frac{25.4}{p_d} \quad p_d = \frac{25.4}{m}$ <p>$D = \text{pitch diameter}$ $N = \text{number of teeth}$</p> $D = mN \quad N = \frac{D}{m}$	
$t_0 = 25.133$ $h = 18.00$	$t_0 = 31.417$ $h = 22.50$		

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MARYLAND METRICS

P.O. Box 261 Owings Mills, MD 21117

phones: (410)358-3130 (800)638-1830

faxes: (410)358-3142 (800)872-9329

E-mail: techinfo@mdmetric.com

URL: <http://mdmetric.com>

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