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File

Name: HyTech_Stage2.jd
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Manufacturing data for cylindrical gears

Drawing or article number		0.000.0	
Number of teeth	[z]	-120	
Facewidth (mm)	[b]	15.000	
Normal module (mm)	[mn]	0.700	
Helix angle (°)	[β]	0.000	(0°0'0")
Hand of gear		Spur gear	
Normal pressure angle (°)	[αn]	20.000	(20°0'0")
Material		16 MnCr 5 (1)	
Accuracy grade according to AGMA 2000		10	
Profile shift coefficient	[x]	-0.532	
Reference diameter (mm)	[d]	84.000	
Tip diameter (mm)	[da]	83.345 , 0.000 / 0.035	
Root diameter (mm)	[df]	86.495 , 0.192 / 0.467	
Reference profile		1.25 / 0.38 / 1.0 ISO 53:1998 Profil A	
Addendum coefficient	[haP*]	1.000	
Dedendum coefficient	[hfP*]	1.250	
Tip radius factor	[ρaP*]	0.000	
Root radius factor	[ρfP*]	0.380	
Tip form height coefficient	[hFaP*]	0.000	
Protuberance height coefficient	[hprP*]	0.000	
Protuberance angle (°)	[αprP]	0.000	
Ramp angle (°)	[αKP]	0.000	
not topping			
Tooth thickness tolerance		DIN 3967 cd27	
Tooth thickness allowance (normal section) (mm)	[As.e/i]	-0.070 /-0.170	
Dimension gap number	[k]	15	
Base tangent length (no backlash) (mm)	[Wk]	31.395	
Base tangent length with allowance (mm)	[Wk.e/i]	31.461 /31.555	
Effective diameter of ball/pin (mm)	[DMeff]	1.250	
Measurement over two balls (mm)	[MdK.e/i]	83.049 /83.314	
Measurement over pins according to DIN 3960 (mm)	[MdR.e/i]	83.049 /83.314	
Measurement over 3 pins with allowance (mm)	[Md3R.e/i]	0.000 / 0.000	
Normal chordal tooth thickness, no backlash (mm)	[sc]	0.828	
Normal chordal tooth thickness with allowance (mm)	[sc.e/i]	0.758 / 0.658	
Reference chordal height from da.m (mm)	[ha]	0.317	

End of report (lines: 53)