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File

Name: HyTech_Stage1.jd

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Manufacturing data for cylindrical gears

Drawing or article number 0.000.0

Number of teeth	[z]	66
Facewidth (mm)	[b]	11.000
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]	-0.215
Reference diameter (mm)	[d]	46.200
Tip diameter (mm)	[da]	47.299 , 0.000 /-0.025
Root diameter (mm)	[df]	44.149 , -0.148 /-0.368

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	[paP*]	0.000
Root radius factor	[pfP*]	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]	-0.054 /-0.134

Number of teeth spanned	[k]	7
Base tangent length (no backlash) (mm)	[Wk]	13.976
Base tangent length with allowance (mm)	[Wk.e/i]	13.926 /13.850
Effective diameter of ball/pin (mm)	[DMeff]	1.250
Measurement over two balls (mm)	[MdK.e/i]	47.632 /47.414
Measurement over pins according to DIN 3960 (mm)	[MdR.e/i]	47.632 /47.414
Measurement over 3 pins with allowance (mm)	[Md3R.e/i]	0.000 / 0.000

Normal chordal tooth thickness, no backlash (mm)	[sc]	0.990
Normal chordal tooth thickness with allowance (mm)		
	[sc.e/i]	0.936 / 0.857
Reference chordal height from da.m (mm)	[ha]	0.549

End of report (lines: 53)