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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] 27
Facewidth (mm)	[b] 17.000
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] 18.900
Tip diameter (mm)	[da] 21.045 , 0.000 /-0.021
Root diameter (mm)	[df] 17.895 , -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] 4
Base tangent length (no backlash) (mm)	[Wk] 7.752
Base tangent length with allowance (mm)	[Wk.e/i] 7.701 / 7.626
Effective diameter of ball/pin (mm)	[DMeff] 1.400
Measurement over two balls (mm)	[MdK.e/i] 21.631 /21.473
Measurement over pins according to DIN 3960 (mm)	[MdR.e/i] 21.631 /21.473
Measurement over 3 pins with allowance (mm)	[Md3R.e/i] 21.596 /21.439
Normal chordal tooth thickness, no backlash (mm)	[sc] 1.369
Normal chordal tooth thickness with allowance (mm)	[sc.e/i] 1.317 / 1.238
Reference chordal height from da.m (mm)	[ha] 1.092

End of report (lines: 53)