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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] | 27 |
| Facewidth (mm) | [b] | 16.300 |
| 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] | 18.900 |
| Tip diameter (mm) | [da] | 20.601 , 0.000 /-0.021 |
| Root diameter (mm) | [df] | 17.451 , -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] | 7.600 |
| Base tangent length with allowance (mm) | [Wk.e/i] | 7.550 / 7.474 |
| Effective diameter of ball/pin (mm) | [DMeff] | 1.250 |
| Measurement over two balls (mm) | [MdK.e/i] | 20.816 /20.635 |
| Measurement over pins according to DIN 3960 (mm) | [MdR.e/i] | 20.816 /20.635 |
| Measurement over 3 pins with allowance (mm) | [Md3R.e/i] | 20.783 /20.602 |

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|--|----------|---------------|
| Normal chordal tooth thickness, no backlash (mm) | [sc] | 1.208 |
| Normal chordal tooth thickness with allowance (mm) | | |
| | [sc.e/i] | 1.155 / 1.077 |
| Reference chordal height from da.m (mm) | [ha] | 0.865 |

End of report (lines: 53)