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Juiz Metro 2/11/2020 es = - - 10 mm clearence basie size = 30.00 m EI = · John 8:4 Max cleavence = . 80 mm followance shall = . 10 mm 999999999 2) for shall the stall es = max shalt - basie size .10 = HLS - 20.00 HLS = 29.9 mm followance shall = Max - min $\frac{.10}{LLS} = 29.9 - LLS$ upper deviation es = - .10 mm lover deviation ei = 29.8 - 30 = _ . 20 mm fundmontal deviation = - 10 = 4PP or folevance = .lonm (MM) = 29.9mm (LML = 29.8mm

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Calculate the Surface Roughness for a profile using the RMS value, given that the ordinates of the profile measured from the mean line are in the following table: point 1 2 3 4 5 6 Ordinates (inches) 0.21-0.11 0.35-0.22-0.27 0.15

Note: the vertical magnification factor is equal to 100000



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 $\frac{D}{hRMS} = \sqrt{h^2 + h^2}$ = V(.21)2+(-.11)2+(.35)2+(-.22)2+(-.22)2+(45) VE V (0441) 4 .0121 + .1225 + .0484+ .0129+ .022 16 5 V. 1225 = .231840 inch VG F 2 97 . A395 -23184 × 1 100000 925406 . 05888 MM 5

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Given the following for a shaft and a hole system:

- 1. The upper deviation of the shaft is equal to (-0.10 mm)
- 2. The basic size of the system is equal to 30.00 mm.
- 3. The lower deviation of the hole is equal to 0.30 mm.
- The maximum clearance between the shaft and the hole is equal to 0.80 mm.
- 5. The tolerance of the shaft is equal to 0.10 mm
- The required is
 - 1. Draw a simple sketch for this system
 - Calculate the following for the shaft The lower limit, the higher limit, upper deviation, the lower deviation, the fundamental deviation, the tolerance, the Maximum metal limit, and the minimum metal limit.
 - Calculate the following for the hole The lower limit, the higher limit, upper deviation, the fundamental deviation, the tolerance, the Maximum metal limit, and the minimum metal limit.
 - Calculate the minimum clearance between the shaft and the hole.

Show your calculations

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3) for hole EI=. somm Max den = . gonn Max clearance = maxhole - minshell HLH - 29.8 .80 = HLH = 30.6 mm, EI= 114-30 .30+30 = LLH 21H = 30.30 mim EI= . 30 mm lower deviation 5 = 30.6 - 30 = .6 upper deviality hudment devicting = . 30 mm = lower folerance = max - min = (, 30 mm MML = 30.30 mm LML = 30.6 mm min) min clearance. the hole - harshaf - 29.9 [= .4 mm 30.30 =.4mm amazon



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	Hole	lit	shalt	29.8 m	
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Recording is saved in the chat history.

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