

(3) 重, 股重'知图(3)所示,(4) a b, 及 de, 如图(2)和图(3)所示、

(2) 由实际改为该子后, ro= 0,A+ r_T=40mm.

行程们为60mm,C点压功角处仍为0, D点.. 压力角 do=arctan-是==23.2°, D点,他的 ho=(是)+(R+ Fi)-1=36.16mm

4-1 * 分度图越全 di= m Zi = 57mm, dz= m Zz= 3×41=123 mm

告で高 ha=h**:m=1×3=3mm (正常哲制 h*=1.0, で=0.25)

齿球角 hf=(ha+t*)m=(1+0,25) x3=3.75mm

顶腺

C

C=(*:m= 0.25x3= 0.75mm

HWBE

 $a = \frac{1}{2}(drtdz) = qomm$

告了图包括 dai=dit2/a=63mm, daz=dz+2ha=129mm

监视图值经 dq=d1-2hq=49.5mm, df2=d2-2hq=115.5mm

基图料至 do1=d1cosd=57cos20°=53.56mm

abz = d2005d = 12300520= 115.58mm

P= Tm = 3.1415 x 3 = 9.425 mm 生建豆

岳厚岳標定 S= e= Tm = 471 mm

4十 ら夜園料を $\Gamma = \frac{100}{2} = 100 \text{ mm}$. 基園料を $\Gamma_0 = \frac{100}{2} \cdot C_0 \times C_0 = 93.97 \text{ mm}$ 超Jを図半経 $\Gamma_0 = \Gamma_0 + \Gamma_0 \times \Gamma_0 = 105 \text{ mm}$ 分度図上饵研送曲率料を $\Gamma_0 = \Gamma_0 \times \Gamma_0 = 34.2 \text{ mm}$,压力角的 $\sigma_0 = 100 \times \Gamma_0 =$

中心罗色 Q= 之(dz-di)= ±m(2z-2i)= 80mm 円齿轮分发圆面经 di= m2z= 4x60= 240mm 齿及圆面经 dai= di-2ha*·m=i232mm 齿板圆面经 dqi= di+2(ha*+c*)·m= 250mm

4-10 夜 m, d, d, d, egt S. Sf. df. 剪、hf. 啮后角d'和节圆直径d是一对各轮传动范畴,无控制断,

5-3 $S(6) \rightarrow 5 \rightarrow 4 \rightarrow 3.(M)$ $1 gm = \frac{25}{26} \cdot \frac{23}{24} = \frac{60 \times 64}{8 \times 8} = .60$

M(9). > 10 > 11 > 12 $\hat{l}_{MH} = \frac{Z_{10}}{29} \cdot \frac{Z_{12}}{Z_{11}} = \frac{24 \times 24}{8 \times 6} = 12$

 $\tilde{V}_{13} = \frac{N_1 - N_H}{N_3 - N_H} = -\frac{21}{5} \cdot \frac{23}{5} = -\frac{30 \times 20}{30 \times 20} = -\frac{5}{5}$

N=200 Hmin, N=-50 Hmin 将 NA=.10.61 r/min

S-(1) 1 p4 = . np-ny = - 20 - 24 , n4= N3.

(3) N= 10000 Hmin, Ny=10001 Hmin, Np=-0,25 Hmin, 新约9n, 相级