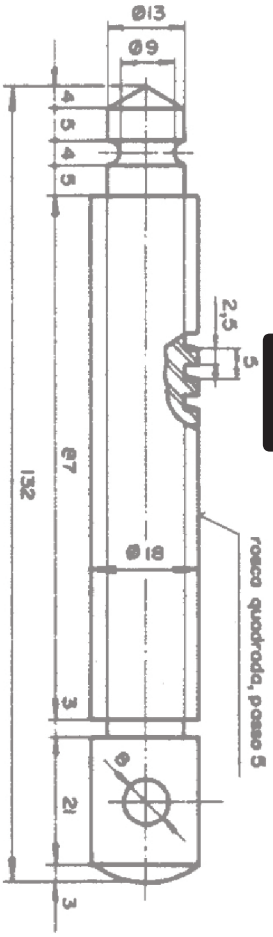
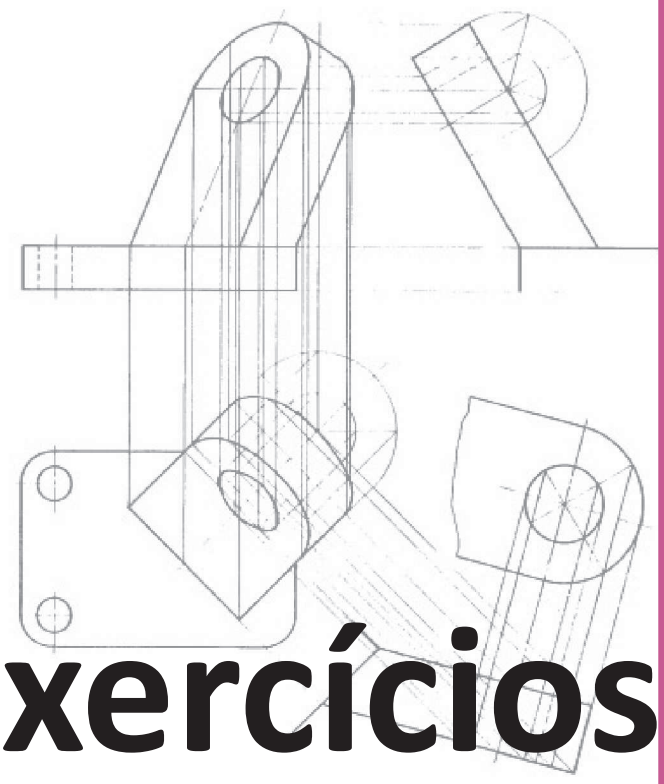
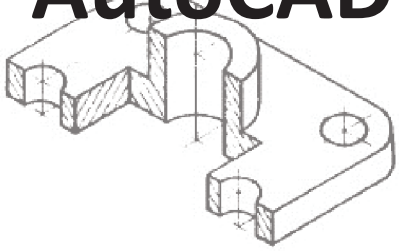
Desenho Mecânico
Auxiliado por Computador
(TMEC 097)

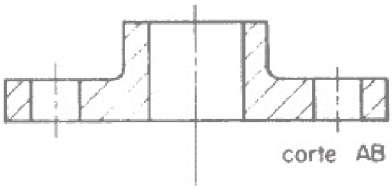


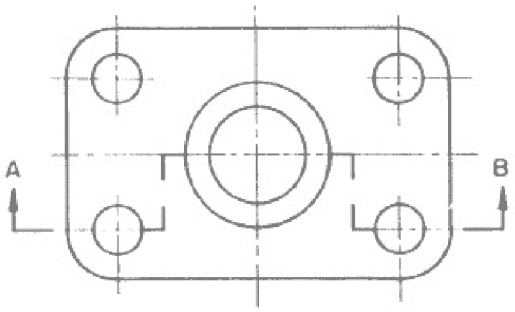


Exercícios

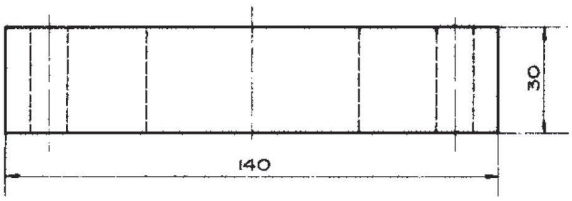
AutoCAD

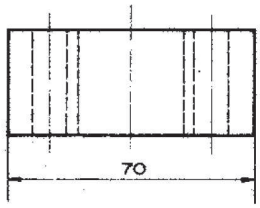


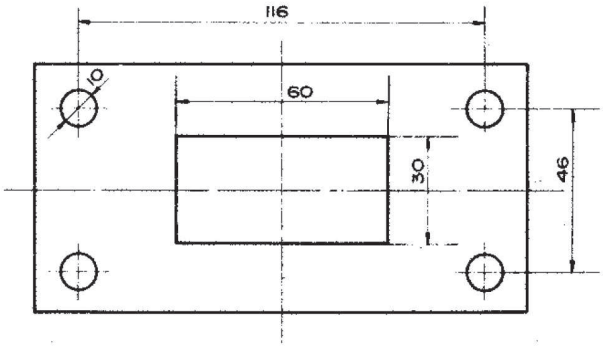




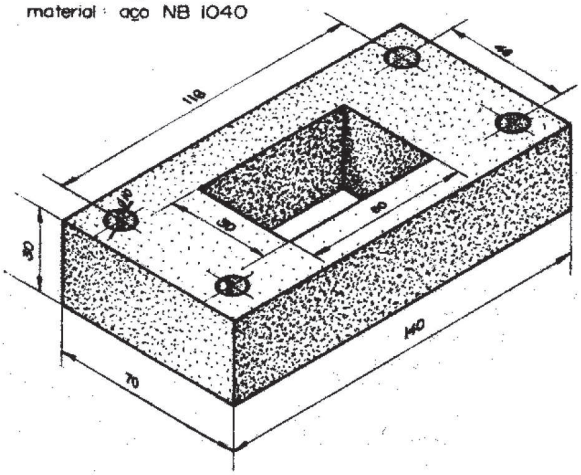
Bloco de guia



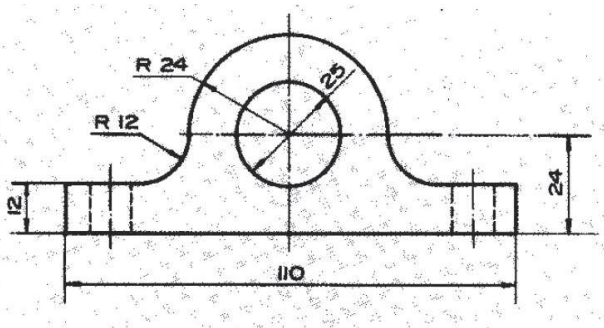


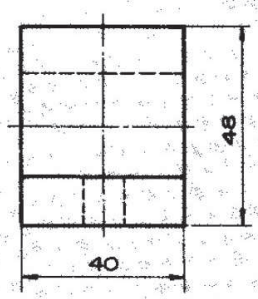


bloco de guia
material : aço NB 1040

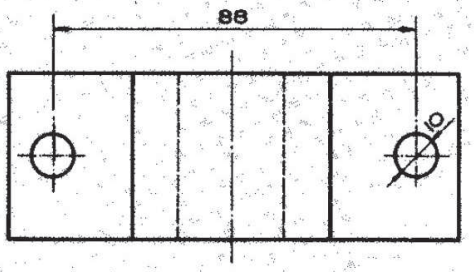


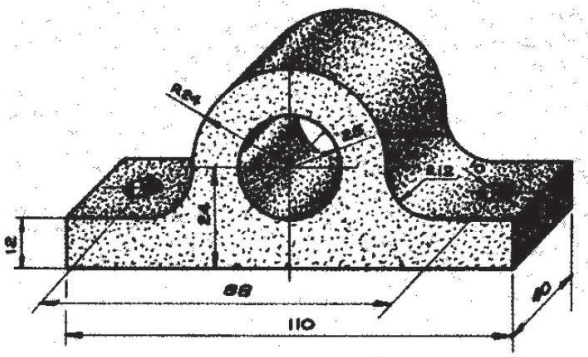
Mancal



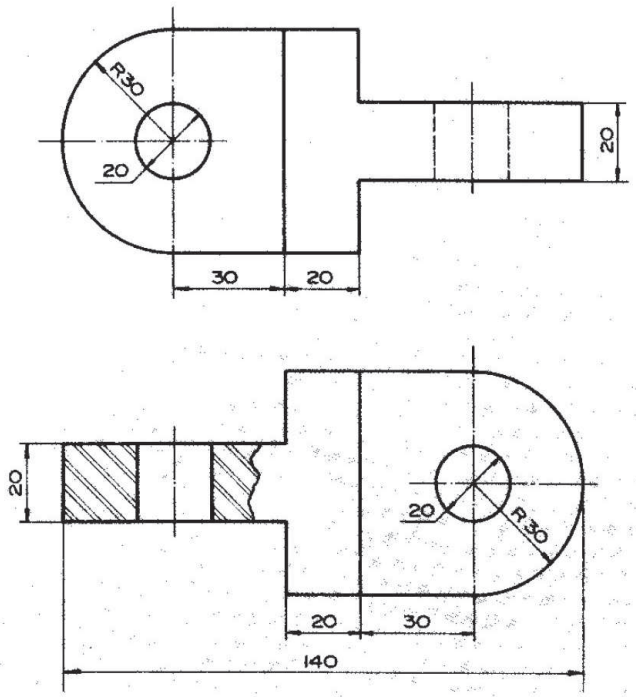


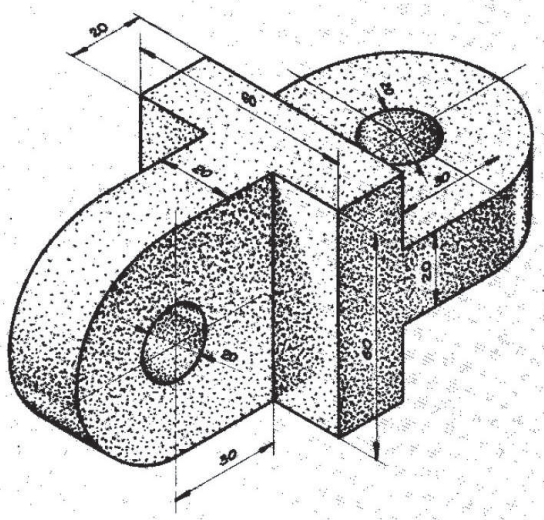
MATERIAL: FERRO FUNDIDO





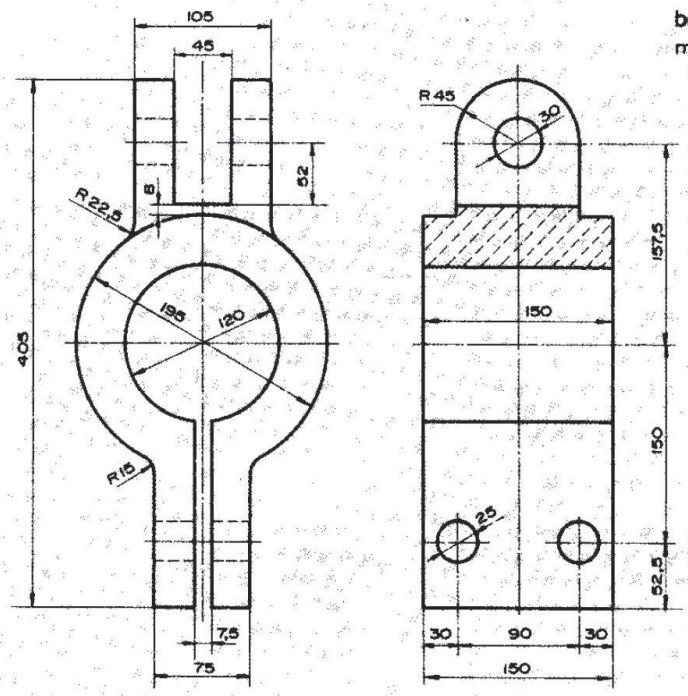
Tirante em cruz



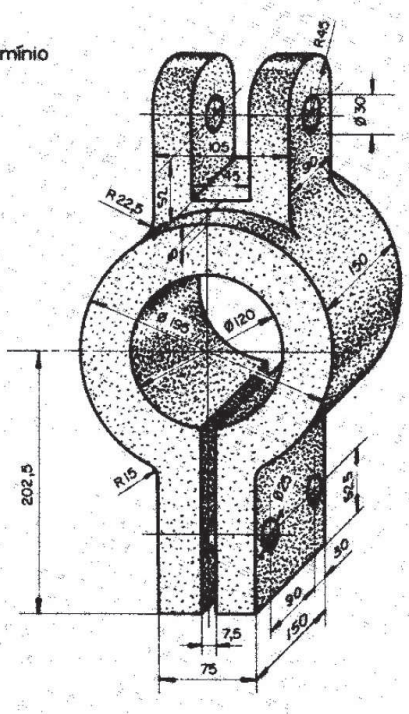


tirante em cruz
material · ferro forjado

Braçadeira

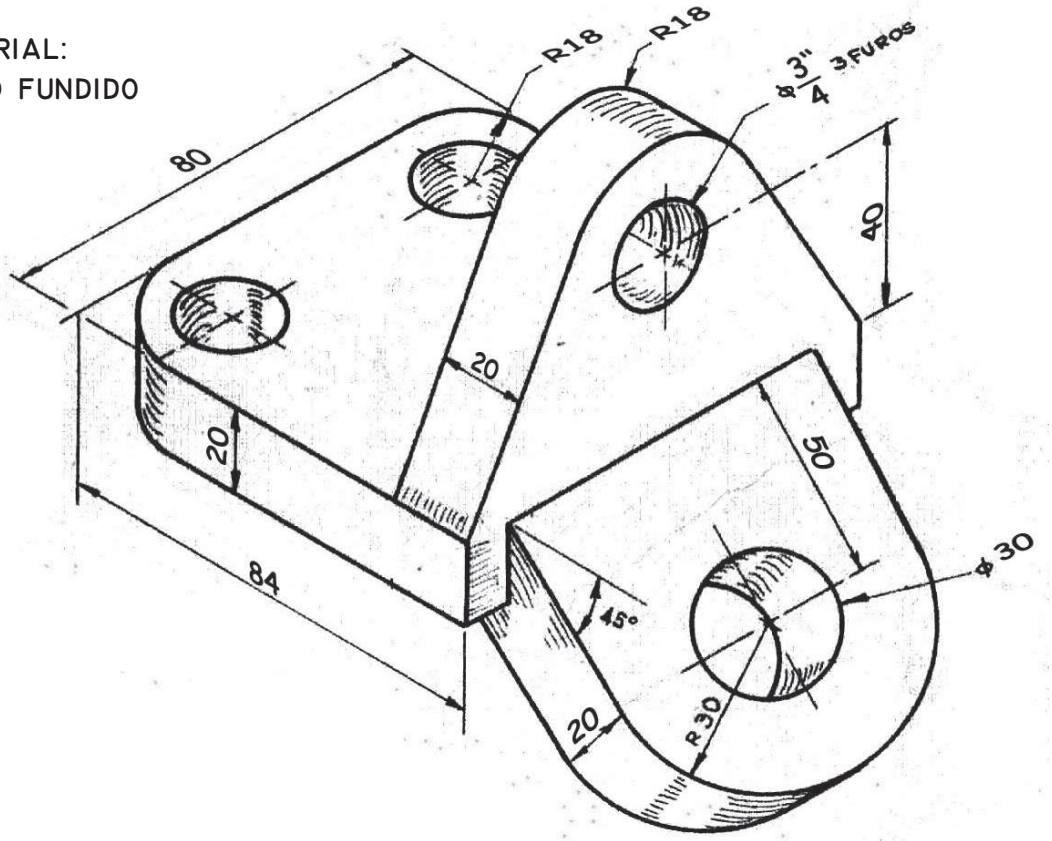


braçadeira
material · alumínio



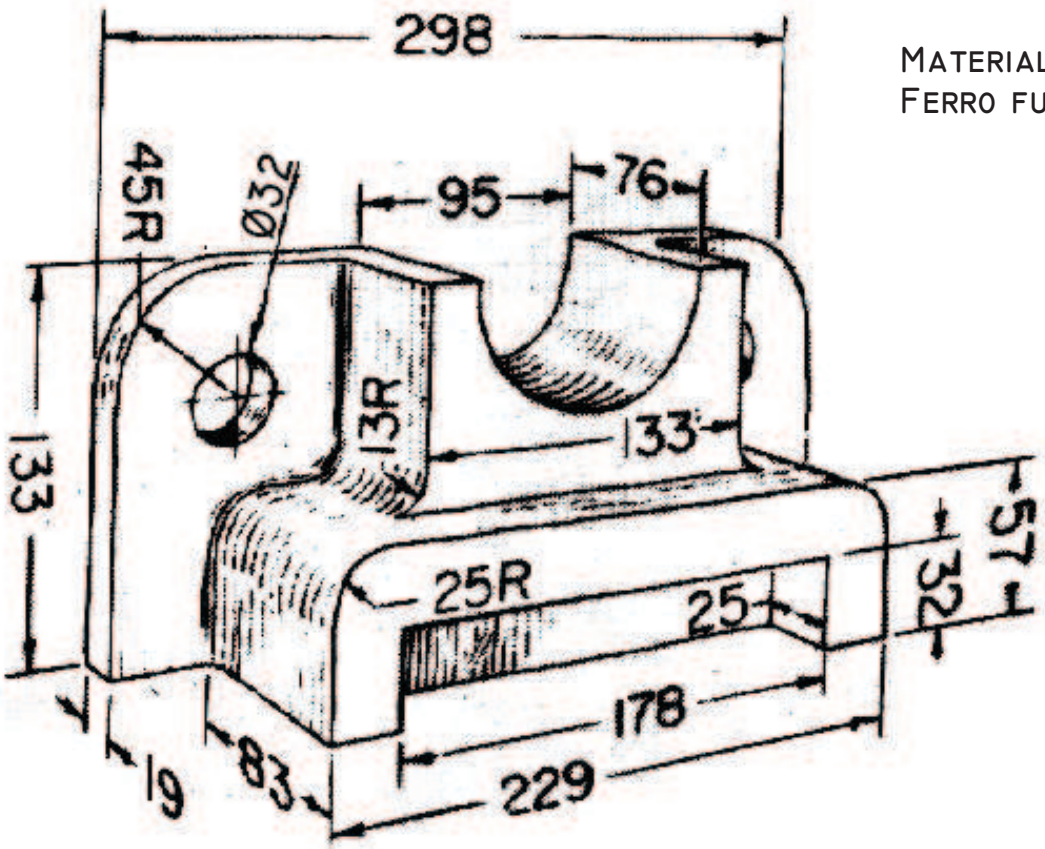
Ligação angular

MATERIAL:
FERRO FUNDIDO



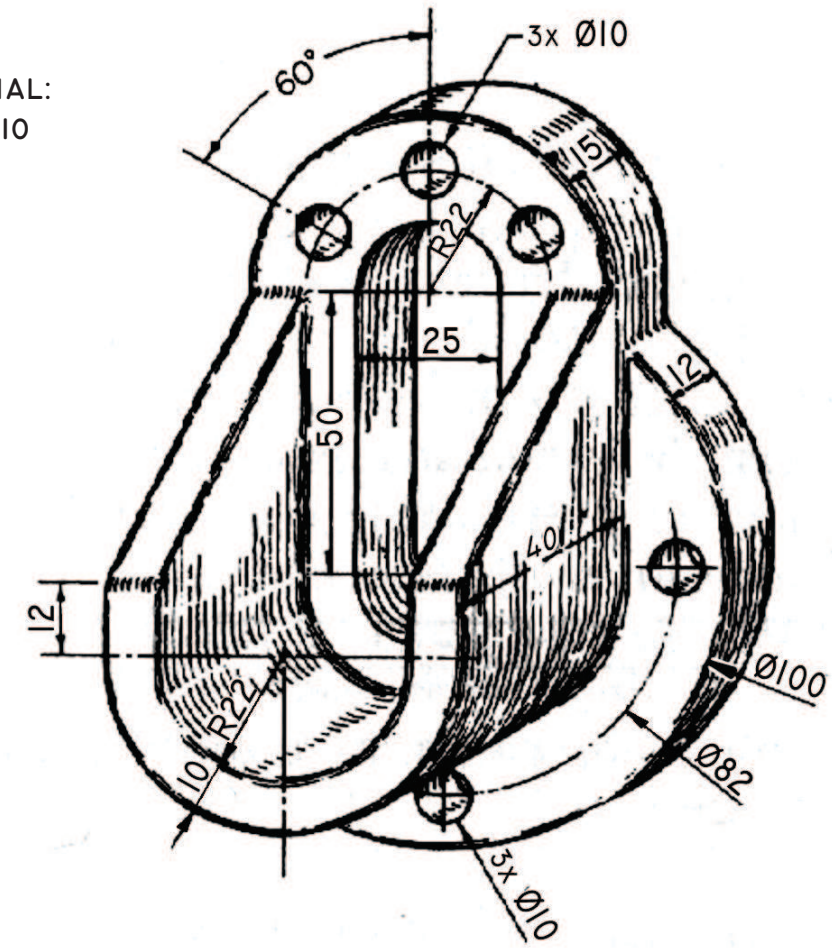
Mancal

MATERIAL:
FERRO FUNDIDO



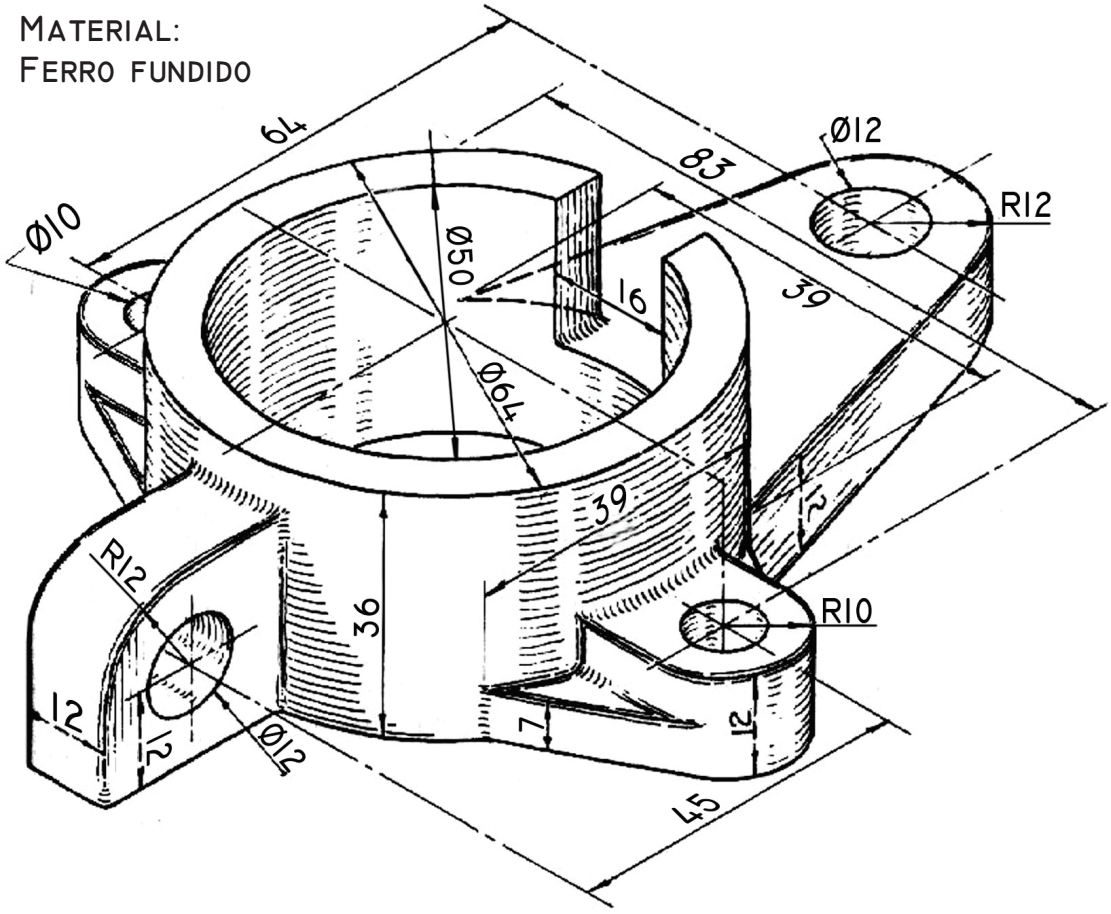
Suporte terminal

MATERIAL:
ALUMÍNIO

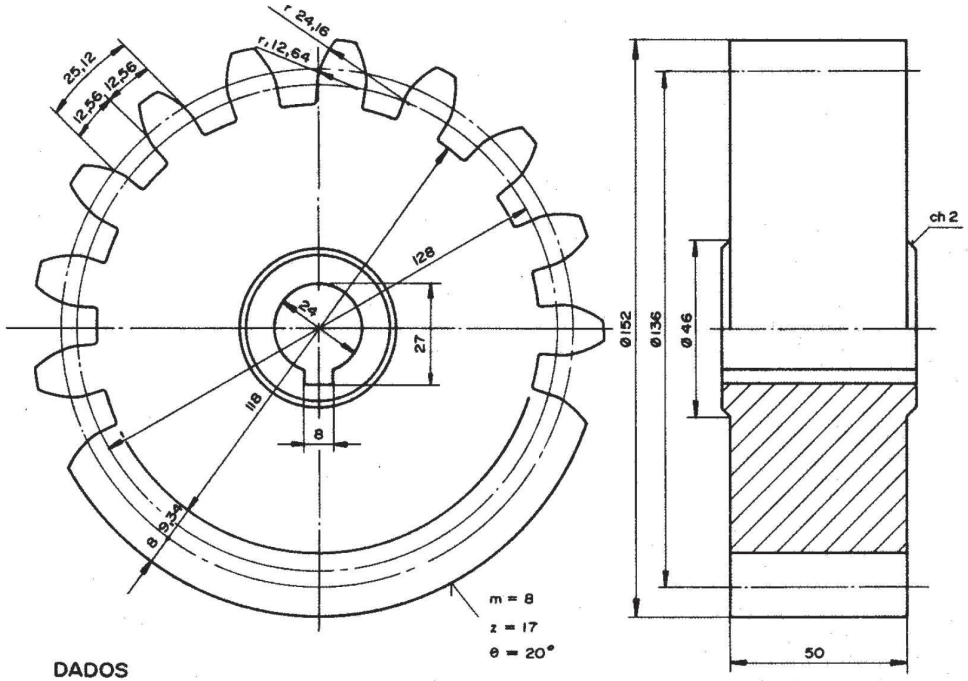


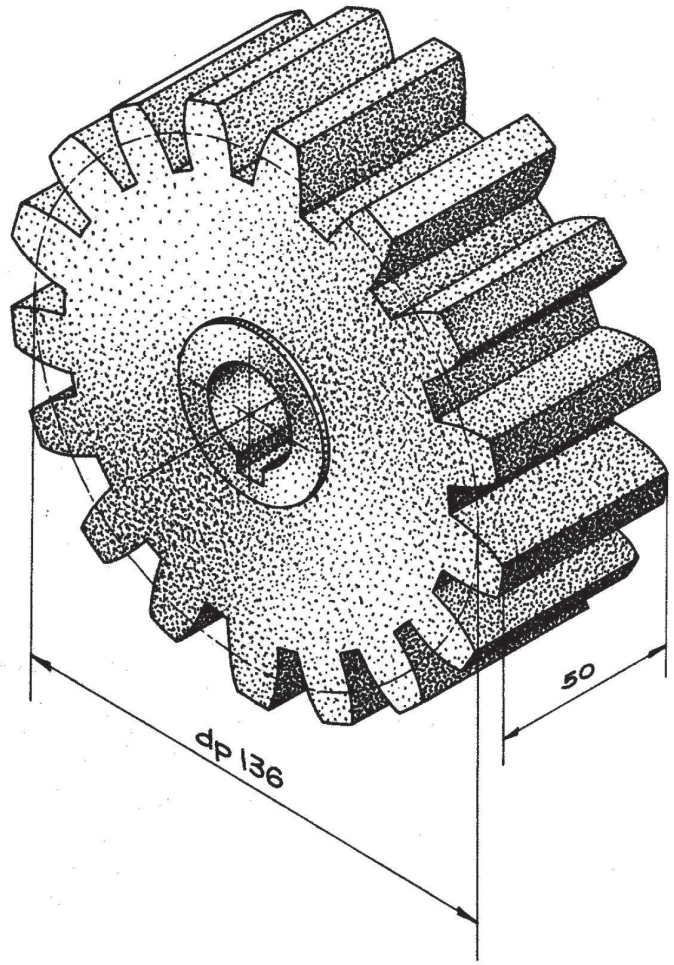
Aro de coluna

MATERIAL:
FERRO FUNDIDO



ENGRENAGENS CILÍNDRICAS DE DENTES RETOS





DADOS

módulo $m = 8$ número de dentes $z = 17$

CÁLCULOS PARA O DESENHO

diâmetro primitivo $dp = mz = 136$

passo $P = m\pi = 25{,}12$

cabeça do dente $a = m = 8$

pé do dente $b = 1{,}167m = 9{,}336 \cong 9{,}34$

espessura $s =$ vão $v = P/2 = 12{,}56$

ângulo de pressão $\theta = 14°30' - 15° - 20° - 22°30'$ ∴ $\theta = 20°$

diâmetro de base $db = dp \cos\theta = 128$

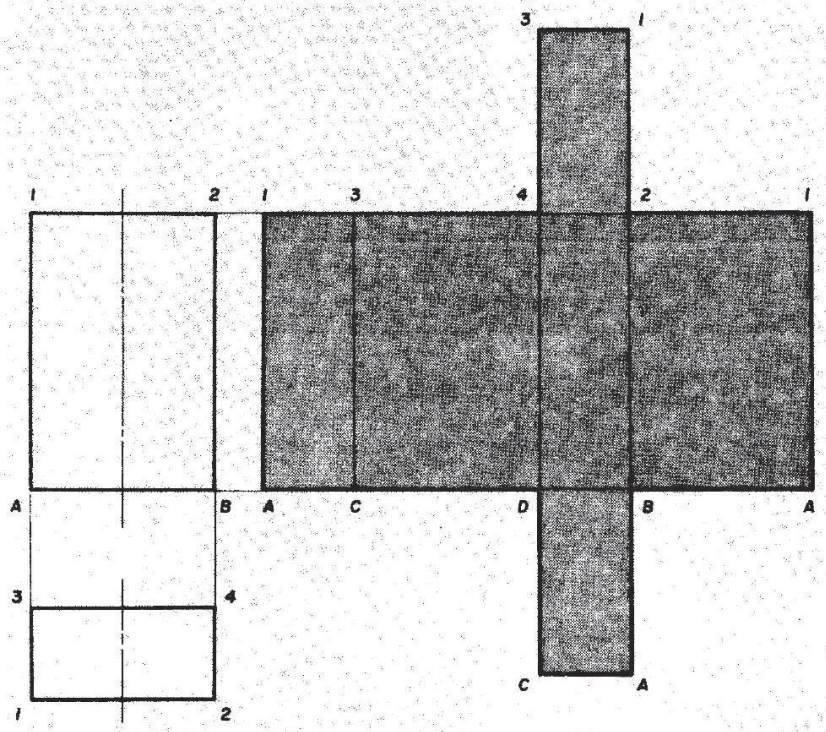
r e r_1 : ver pág. 6-105

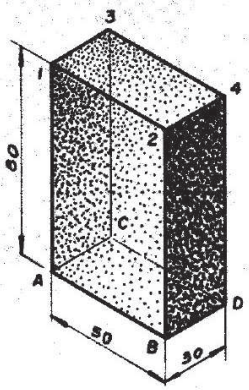
$r = fm = 3{,}02 \cdot 8 = 24{,}16$

$r_1 = f'm = 1{,}58 \cdot 8 = 12{,}64$

comprimento do dente $\ell = (6 \div 20)m = 50$

PRISMA RETO DE SECÇÃO RETANGULAR





TRONCO DE PRISMA RETO DE SECÇÃO RETANGULAR