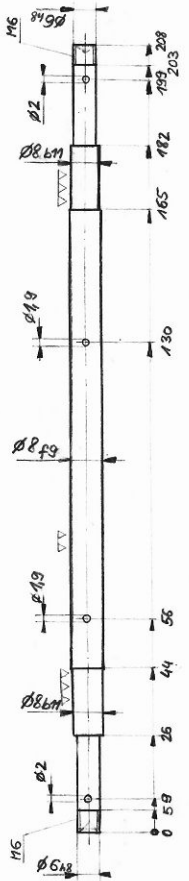
Welle: St 60
M1:1

Hinterradwelle
realisiert



Radpaar 1 $i_1 = 1:6{,}48$; $m = 0{,}6$; $a = 76{,}2\,mm$ (Nullgetriebe, d.h. ohne Profilverschiebung)

$t_0 = m \cdot \pi = 1{,}8846\,mm$

$h_z = 1{,}1m + 1{,}5m = 1{,}56\,mm$ (TGL 15006)

Zahnbreite des Rades > 3mm (Zeichnung unten)

Ritzel 1: $z = 17$

$d_0 = m \cdot z = 10{,}20\,mm$

$d_K = d_0 + 2 \cdot h_K = d_0 + 2 \cdot \underbrace{1{,}1 \cdot m}_{\text{TGL 15006}} = (10{,}20 + 2{,}2 \cdot 0{,}6)\,mm = 11{,}52\,mm$

Rad 1: $z = 110$

$d_0 = 66{,}00\,mm$

$d_K = 67{,}32\,mm$

$u = \frac{110}{17} = 6{,}47$

Radpaar 2: $i_2 = 5{,}05$; $m = 0{,}6$; $a = 76{,}2\,mm$ (Nullgetriebe)

$t_0 = 1{,}8846\,mm$

$h_z = 1{,}56\,mm$

Zahnbreite > 8 mm

Ritzel 2: $z = 21$ ~~22~~

$d_0 = $ ~~$12{,}60\,mm$~~ $13{,}20\,mm$

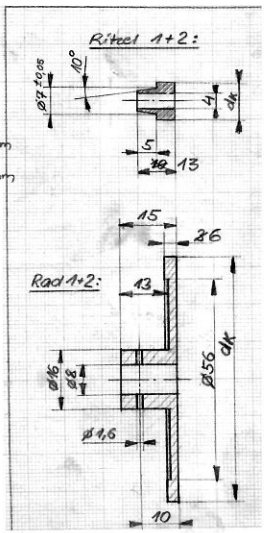
$d_K = $ ~~$13{,}92\,mm$~~ $14{,}52\,mm$

Rad 2: $z = $ ~~106~~ 105

$d_0 = 63{,}0\,mm$

$d_K = 64{,}32\,mm$

$u = \frac{105}{22} = 4{,}77$



St 60:

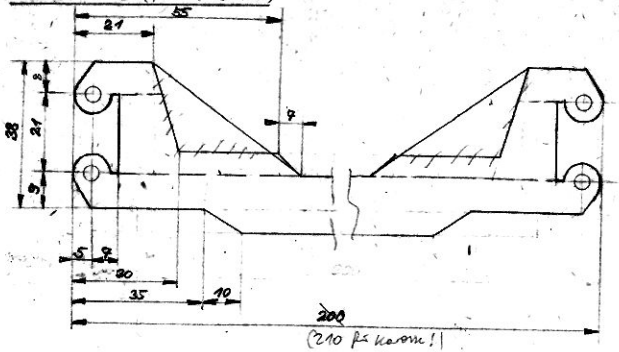
$\sigma_B = 60 \ldots 75\ \frac{kp}{mm^2}$ (Zugfest.)

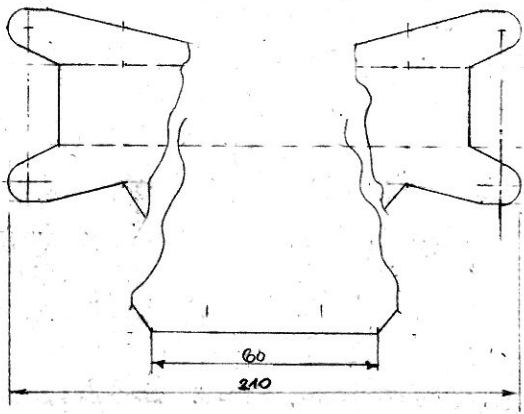
$\delta_{10\%} = 14\,\%$ (Bruchdehn)

$\sigma_{Streck} = 34\ \frac{kp}{mm^2}$

C-Gehalt 0,45 %

Vorderachse (Alu 2 dick)



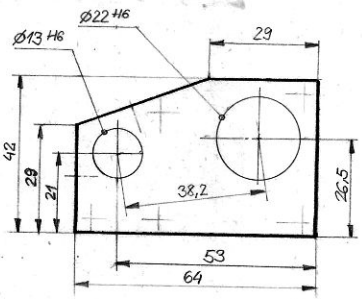


realisiert

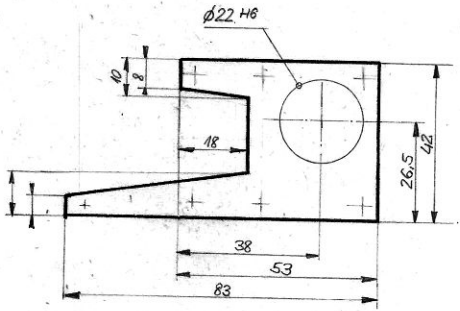
Chassis (Alu, 2 dick)

Motor - Platten
rechts - links

Platte rechts (Alu, 8 dick)



Platte links (Alu, 8 dick)

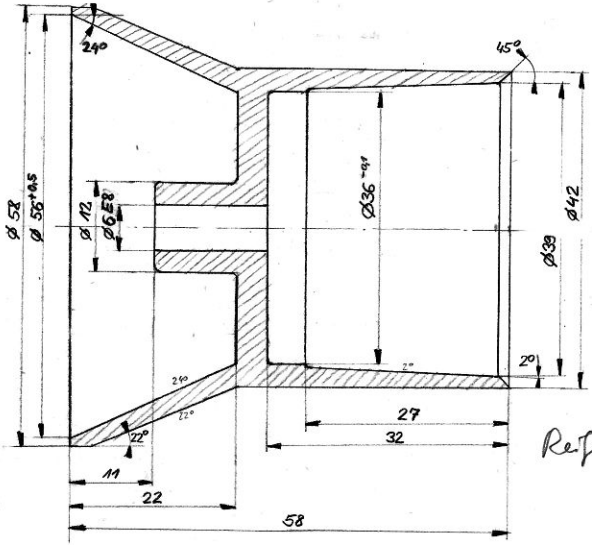


(2Stck) Felge, hinten: Alu

M2:1

(alle Rundungsradien r=1mm)

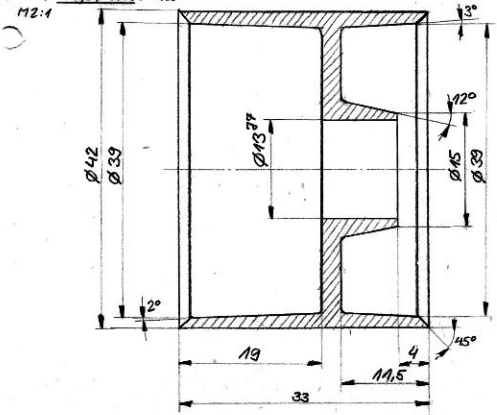
realisiert ✓



Reifen Ø: 90

(2Stck) Felge, vorn: Alu

M2:1



realisiert ✓

Reifen Ø: 42

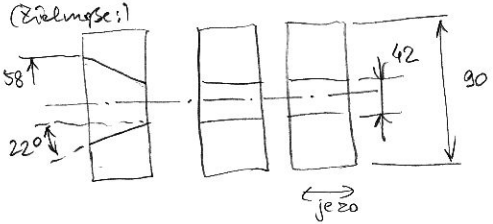
Reifen Ferrari 312 T

Zielmaße ohne Übermaß

Hinten: ϕ 90 außen

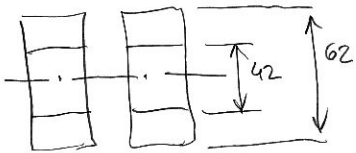
Felge: $B \times \phi = 58 \times 42^*$

(Zielmaße:)



Vorn ϕ 62 mm (außen)

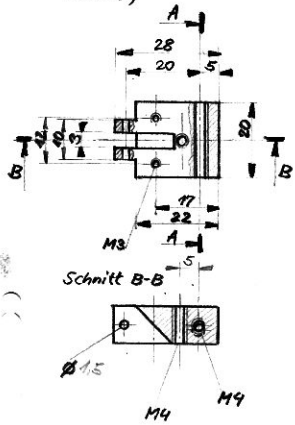
Felge: $B \times \phi = 33 \times 42$



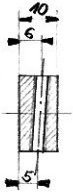
Restauration 2013/14

Lenkschemel realisiert

Platte (Alu) M1:1
(links)



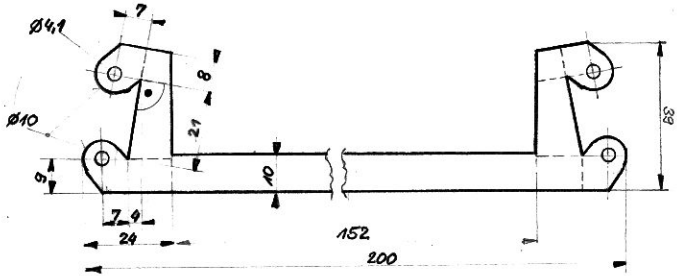
Schnitt A-A



Tel 3238

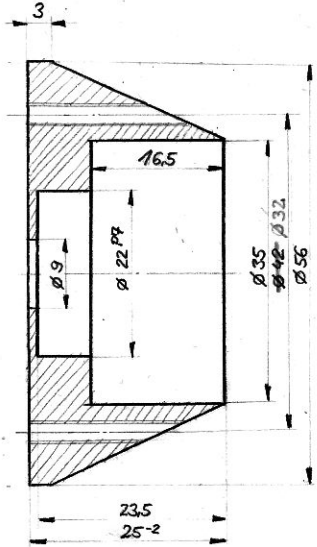
V.achse (St 60, 2 dick)
M1:1

Entwurf



(2x) Konus: Pertinax; Hartgewebe; o.ä.

M 2:1



Konus-
Bremsbacken 2x

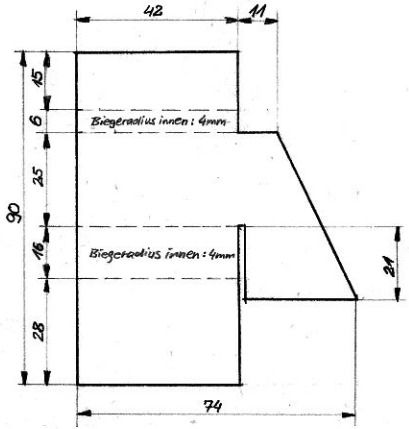
- realisiert im ersten Jahr ('80) gefahren

Problem:
Bremswirkung ist bei geringen Drehzahlen, bei hohen Drehzahlen prallen die Backen ab

!

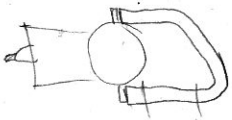
Motorträger (Alu; 6mm dick)

finale Version realisiert, aber abgewandelt



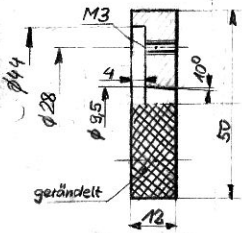
Achtung! Aufriß seitenverkehrt!

gebogen:

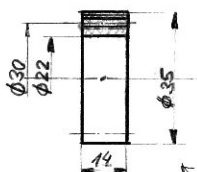


-11a-

Verändert realisiert

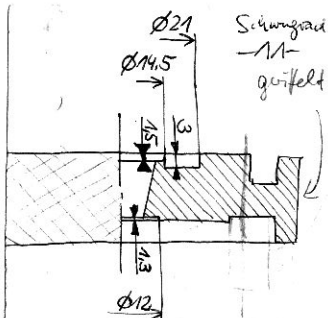


Schwungmasse (Alu)



Kupplungssegmente (Hartgewebe etc.)

wittig durchsägen

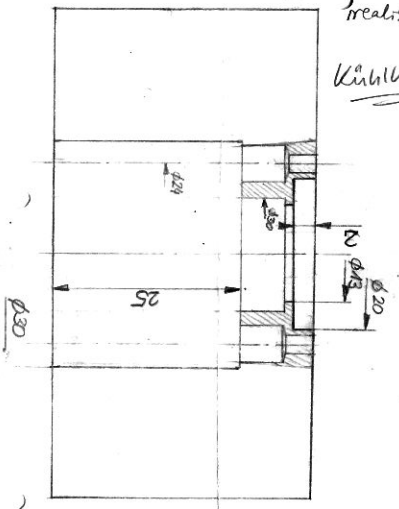


realisiert

Schwungmasse

realisiert

Kühlkopf



Umbau

(Rohren)

Kühlkörper

Orig.

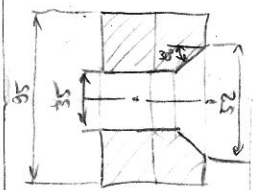
Reifen, hinten

Reifen

$\phi_i = 35$ ($\phi_{nenn} = 42$) innen ϕ

$\phi_a = 95$ ($\phi_{nenn} = 90$) außen ϕ

$b = 60$ (2×30, gewölbt)



Reifen, vorn

$\phi_i = 30$ ($\phi_{nenn} = 42$)

$\phi_a = 72$ ($\phi_{nenn} = 62$)

$b = 32$ (1×30, gewölbt)