

The evolution of glider manufacture





Name *Alexander Schleicher*
 (Firma) *Poppenhausen*
Kreis Kassel

geboren am *23. Juni* 1901

ist als Inhaber
 eines *unabhängig betriebl.* Betriebes
 am *9. August* 1935
 in die Handwerksrolle eingetragen.

Der Inhaber ist zur
 Anleitung von Lehrlingen
 im *Flugzeugbau*-Handwerk befugt.
 Kassel, den 1. August 1935.
 Handwerkskammer zu Kassel

Homboldt Präsident
A. Martmann Senblus
 Beglaubigt: *Köhler*



Eigenhändige Unterschrift

Alex Schleicher

Alexander Schleicher
 Flugzeugbau
 Poppenhausen
 an der Wasserkuppe

Die Handwerkskarte ist der Handwerkskammer
 zurückzugeben, wenn der Betrieb eingestellt wird.

Gebühr RM 2.—



Advertisement from 1925

Schul-Segelflugzeuge

Eindecker Type »Buchonia« für A- und B-
Prüfung Preis 550 GM.

Eindecker Type »Buchonia« für C-Prüfung
. Preis 650 GM.

Hängegleiter

Type »Lilienthal« Preis 200 GM.

Es werden **N e u b a u** von hochwertigen
Segelflugzeugen und Leichtmotorflugzeugen
nach Zeichnung ausgeführt.

**Alexander Schleicher, Flugzeugbau,
Huhnrain, Post Poppenhausen (Rhön).**

Advertisement from 1931

Segelflugzeugbau ‚Rhön‘

ALEXANDER SCHLEICHER
Poppenhausen a. d. Wasserkuppe

liefert „Anfänger“ „Hols der Teufel“

„Luftkurort Poppenhausen“ „Zögling“

„Falke“ „Professor“

**in erstklassiger Ausführung
zu konkurrenzlosen Preisen**

Hols der Teufel („Let the devil get it“)



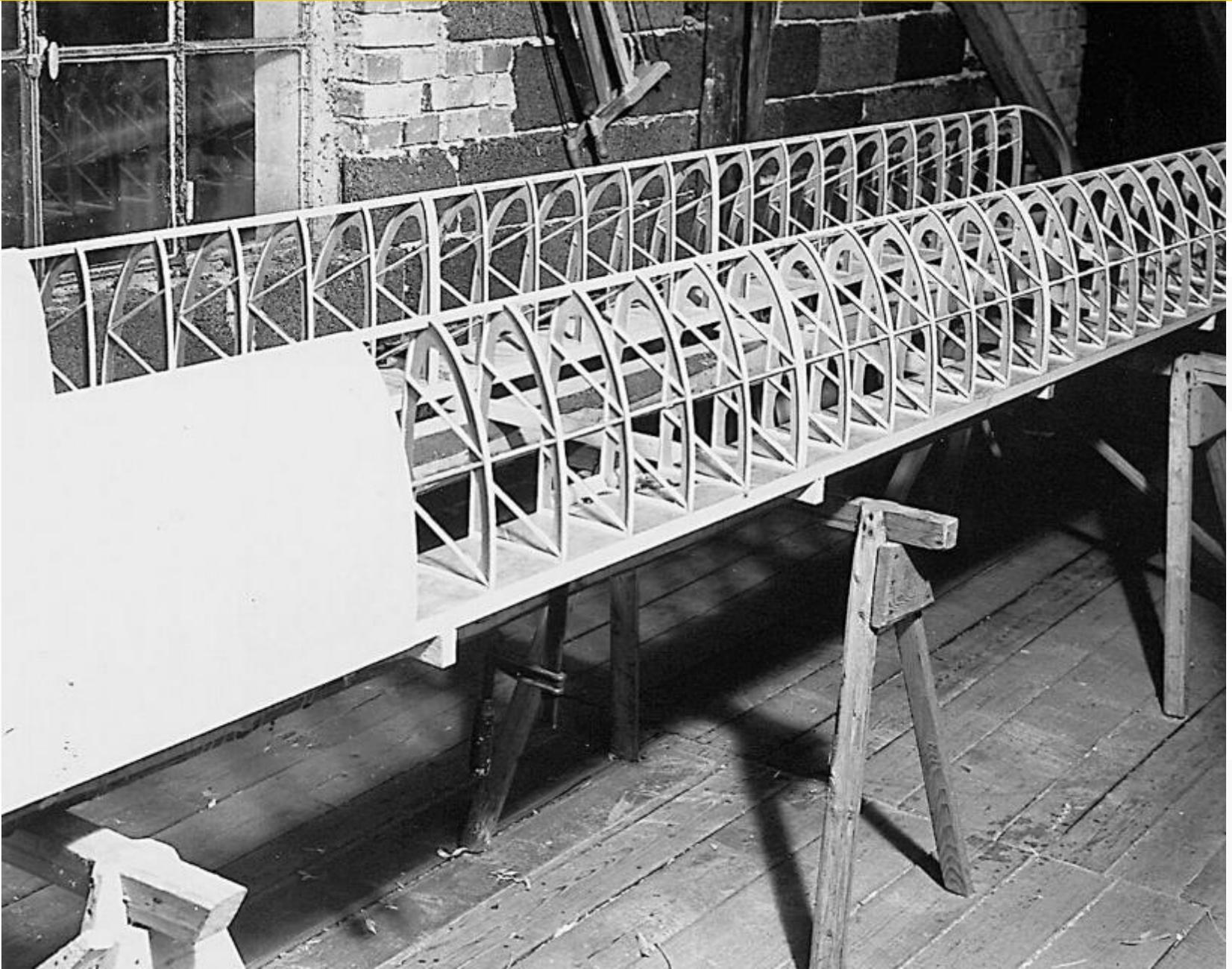
SG 38

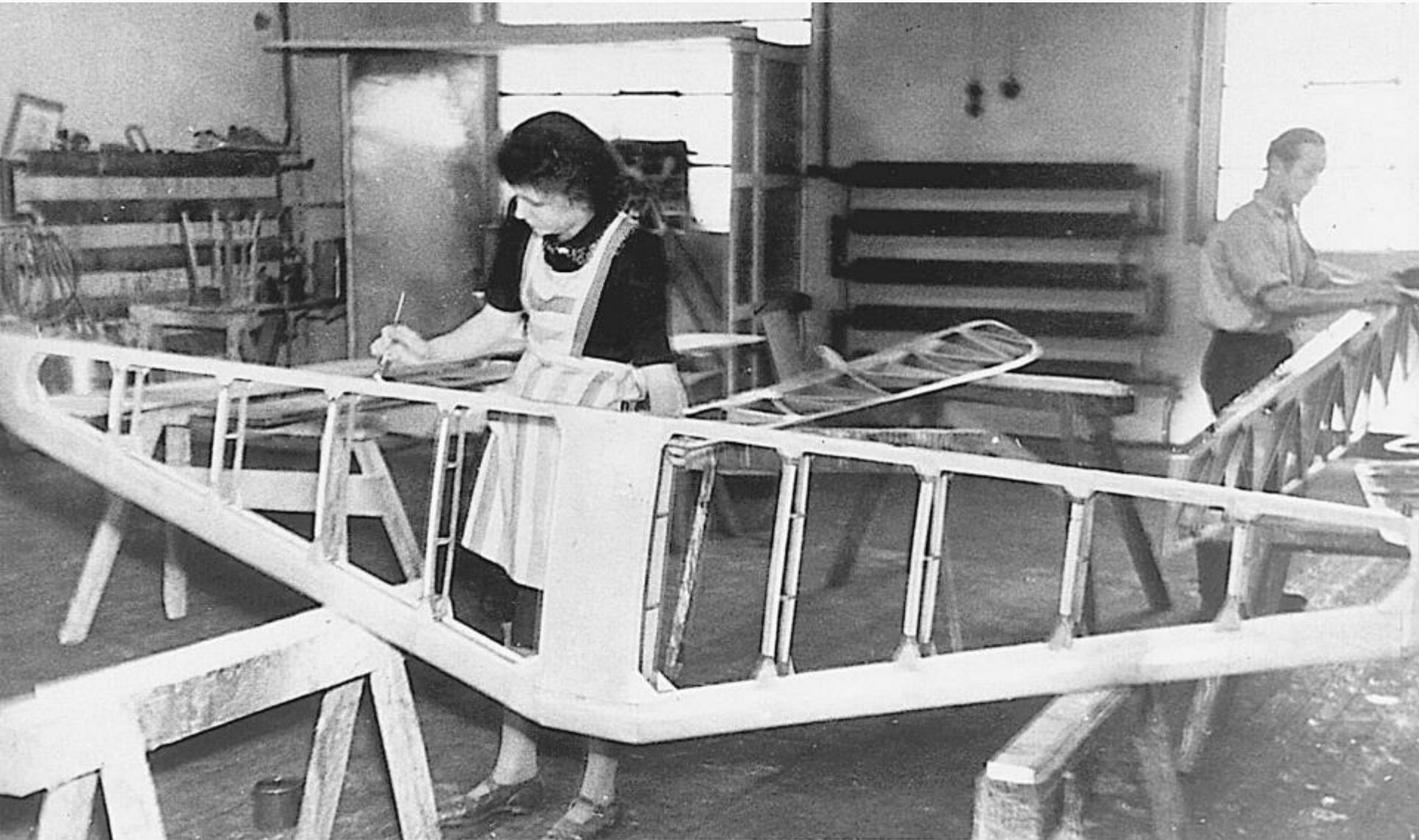
500 pc. built until 1945



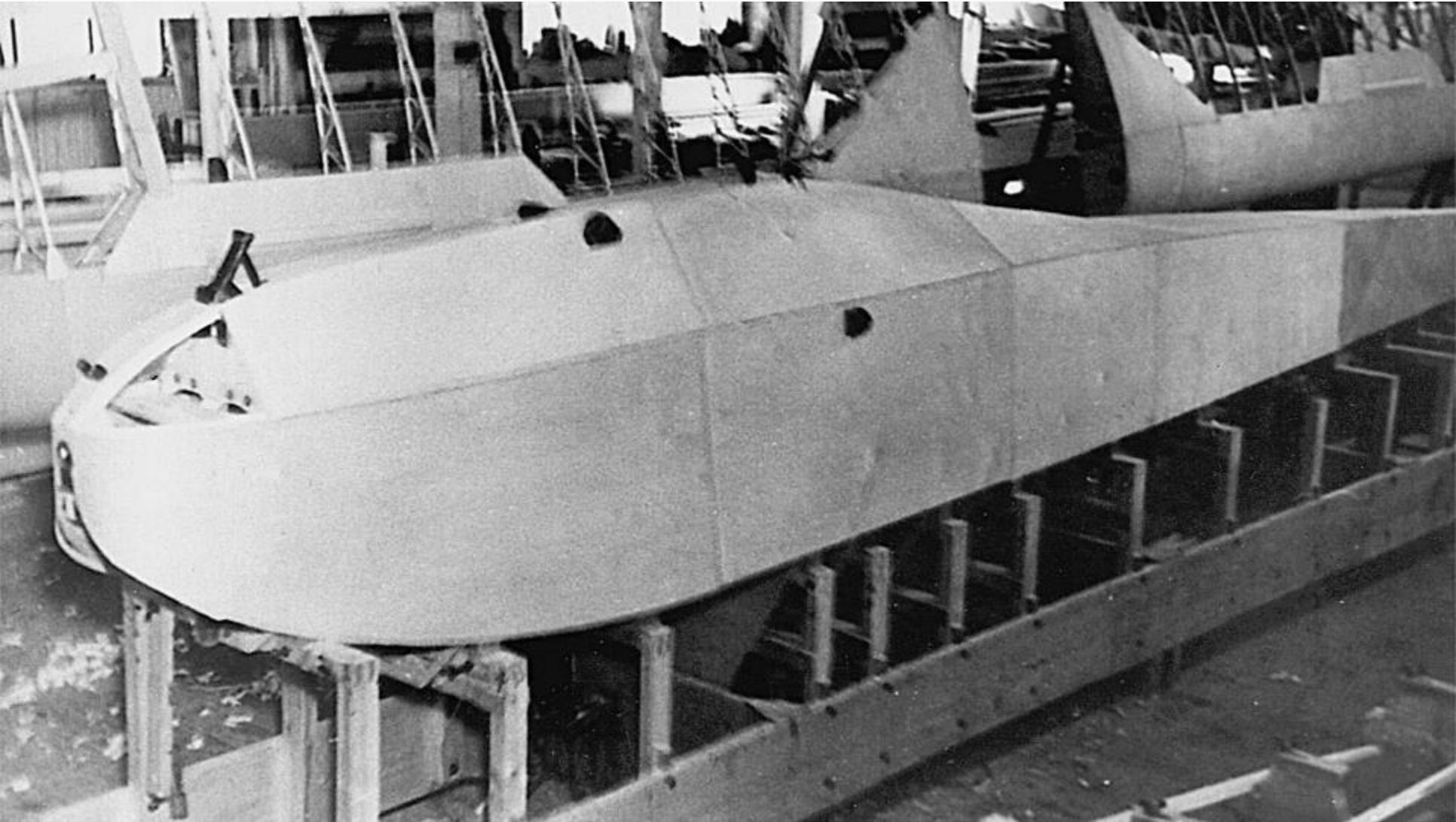














OBS

26m wingspan!



Seeadler (Sea eagle)



Kaiser Ka 1

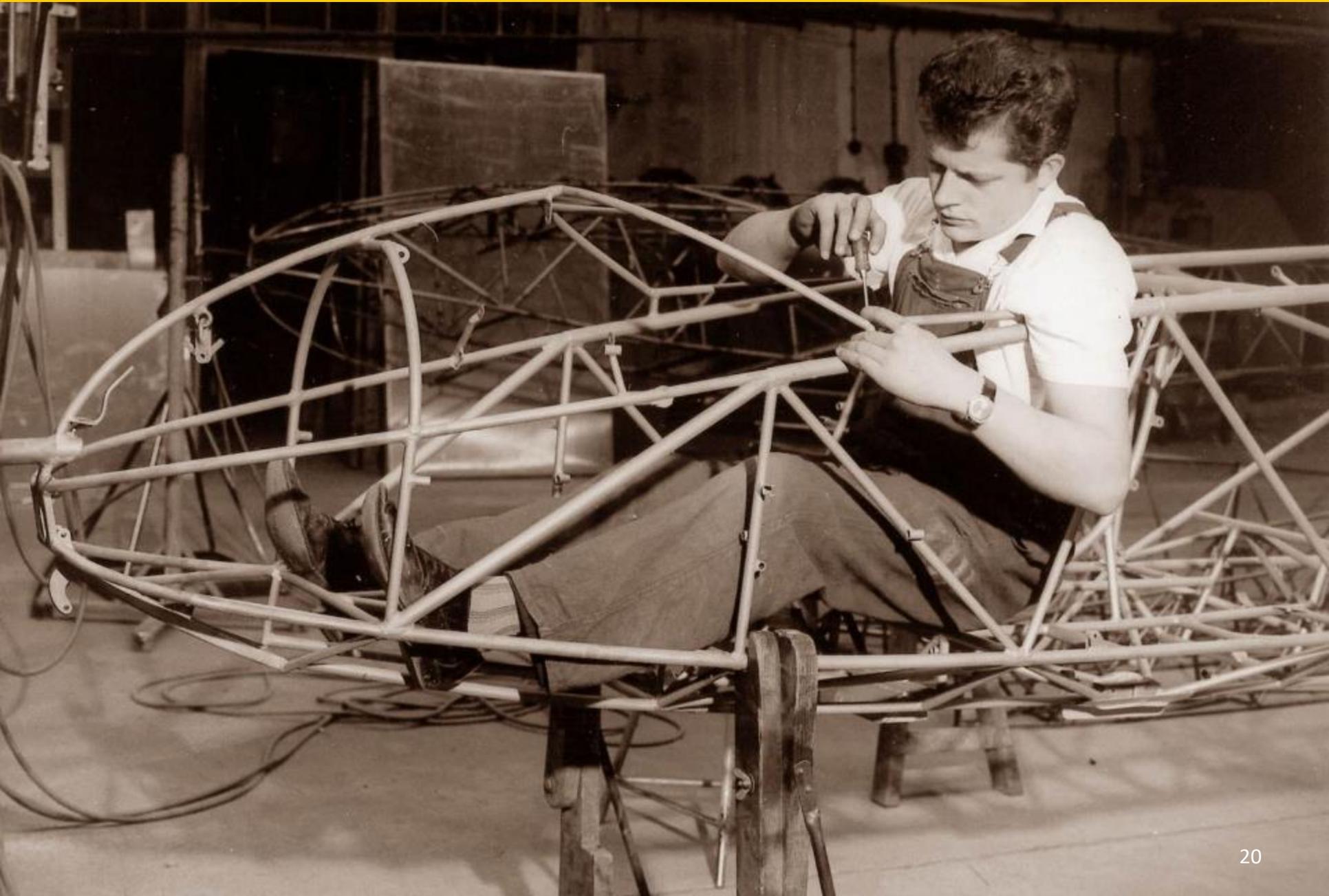


Ka 2



Ka 6 More than 1.250 pc. built until 1972







Ka 8 More than 1.200 pc. built until 1976

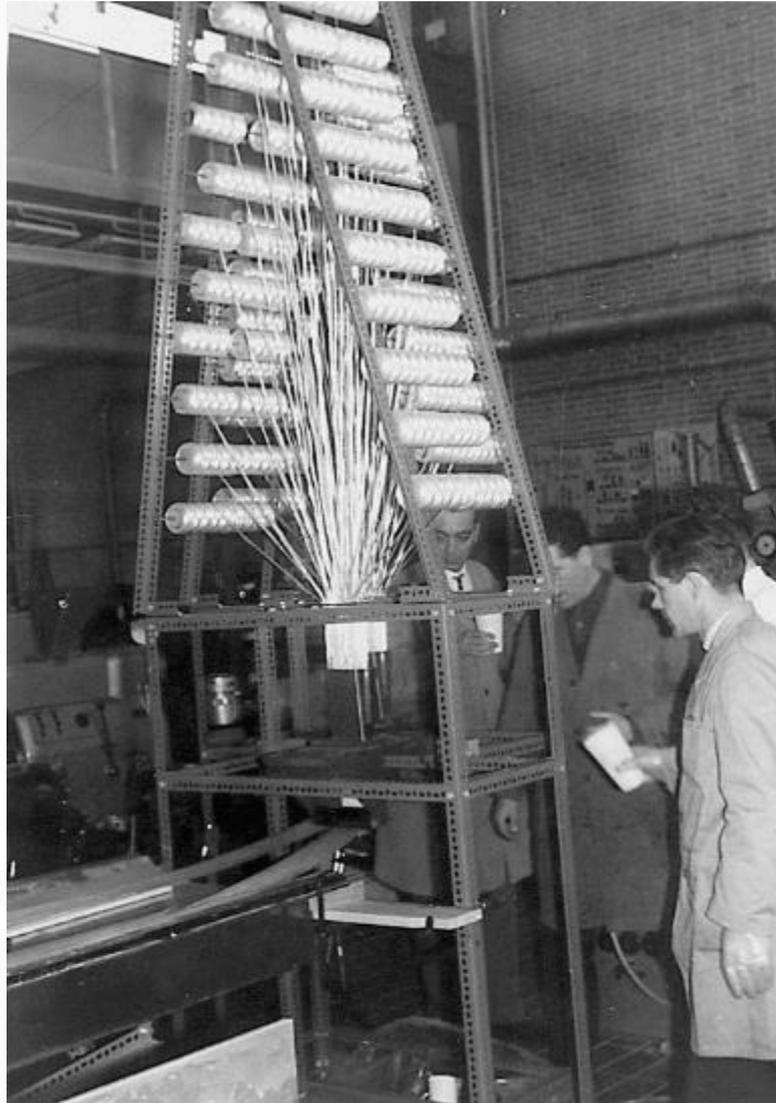




ASW 12 Fuselage



„Zettel-tree“ with glass fiber rovings

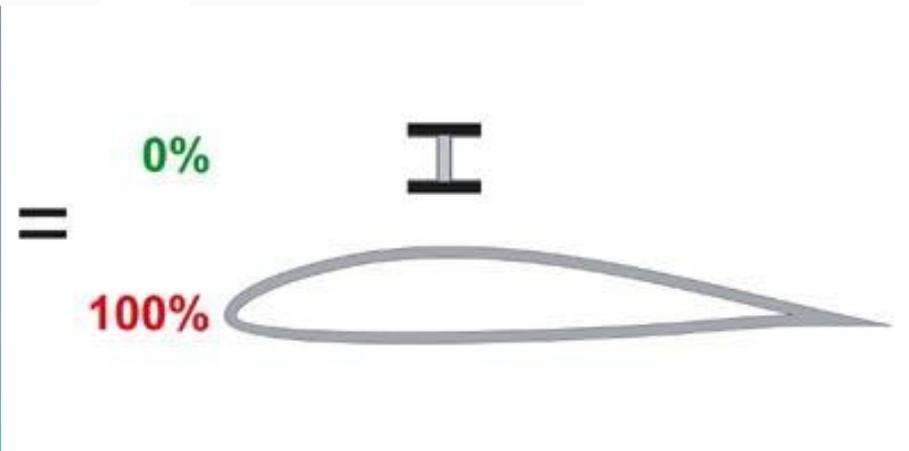
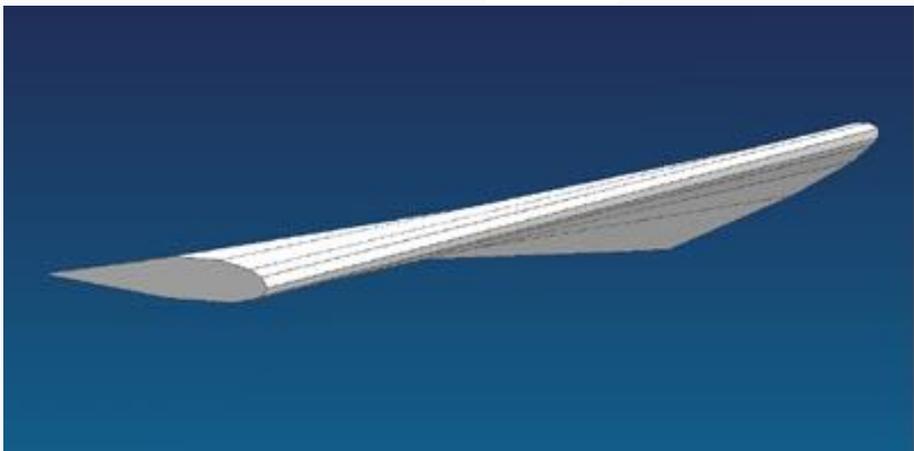
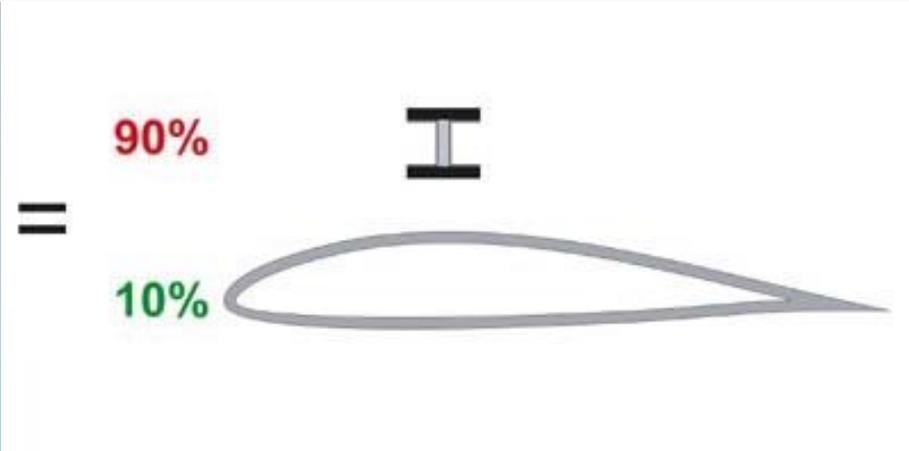


ASW 12

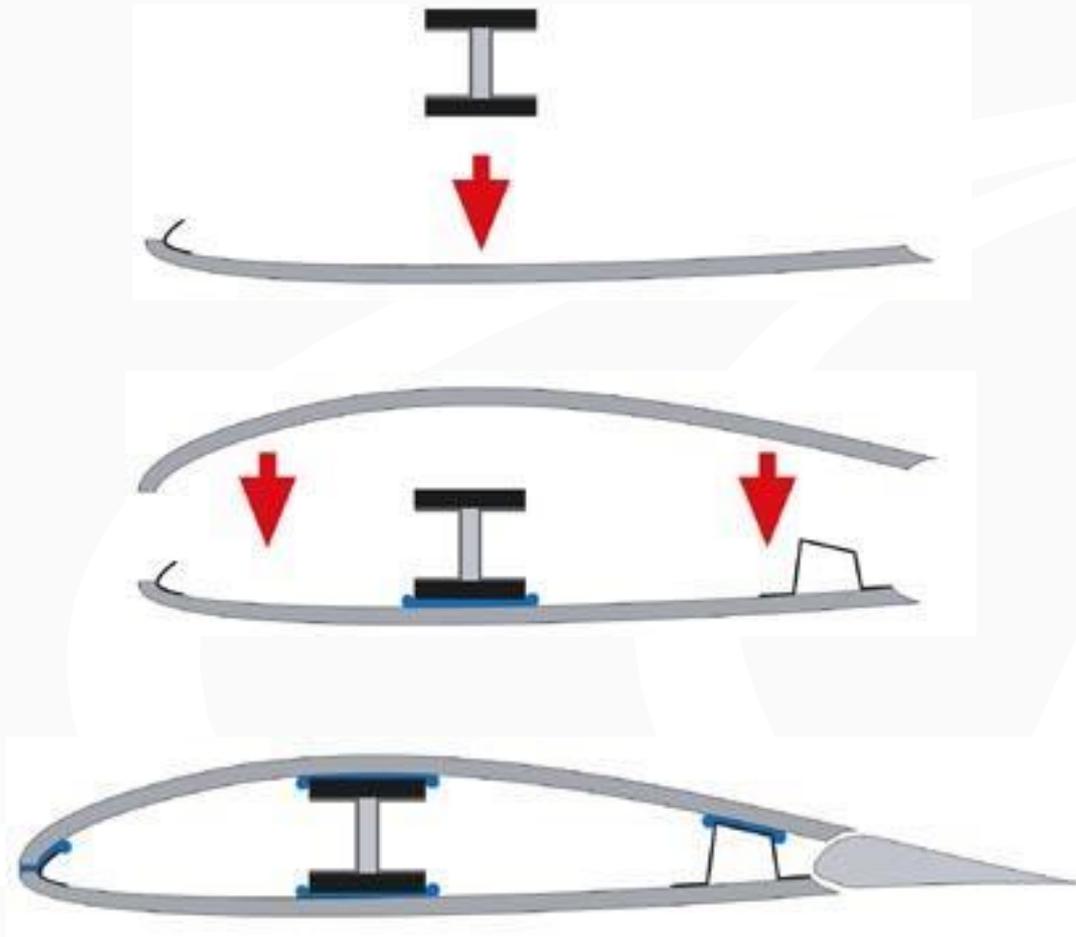
Wing strength test



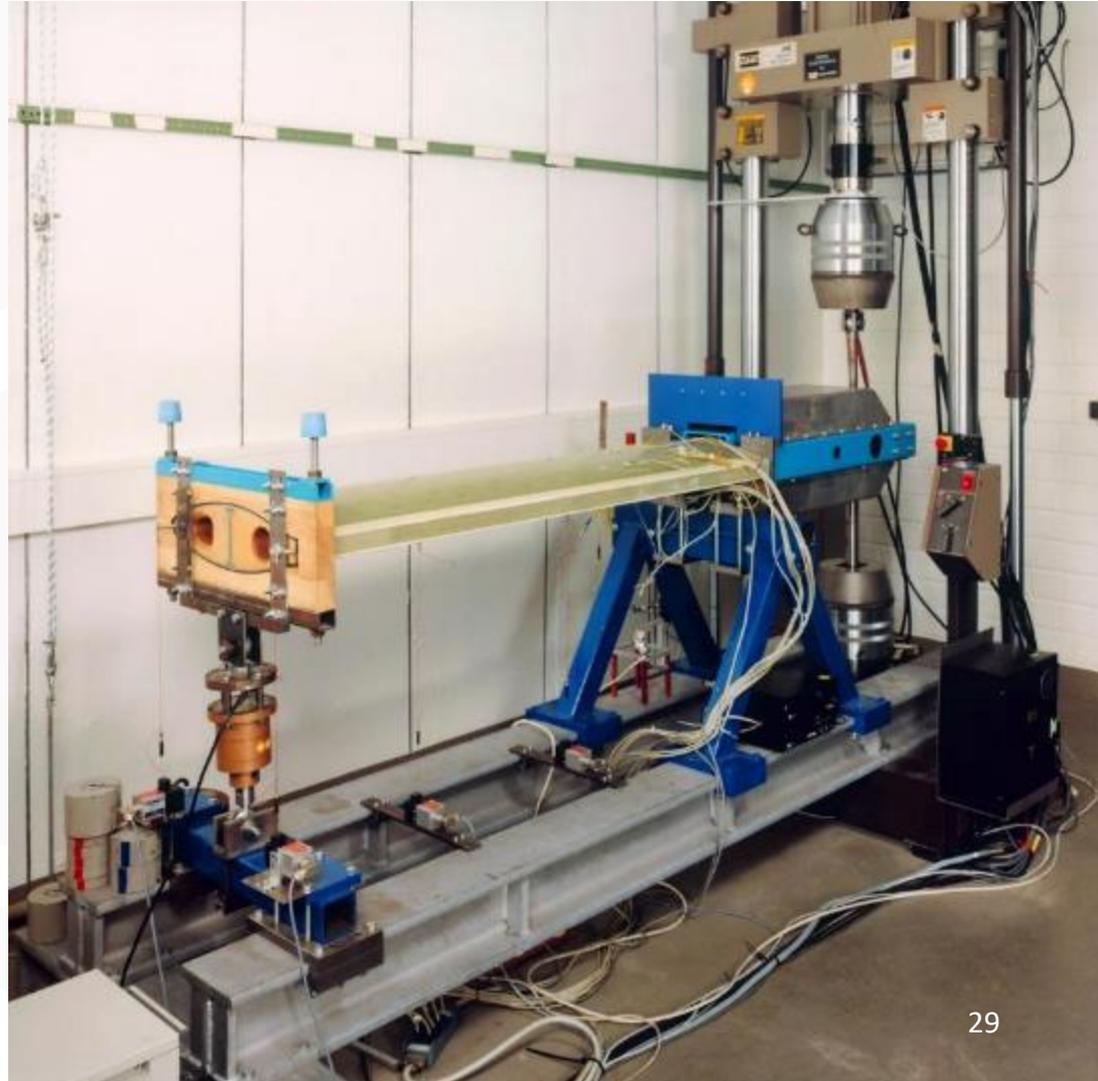
Main spar = The „heart piece“ in the wing



Main spar installation



Duration stress testing

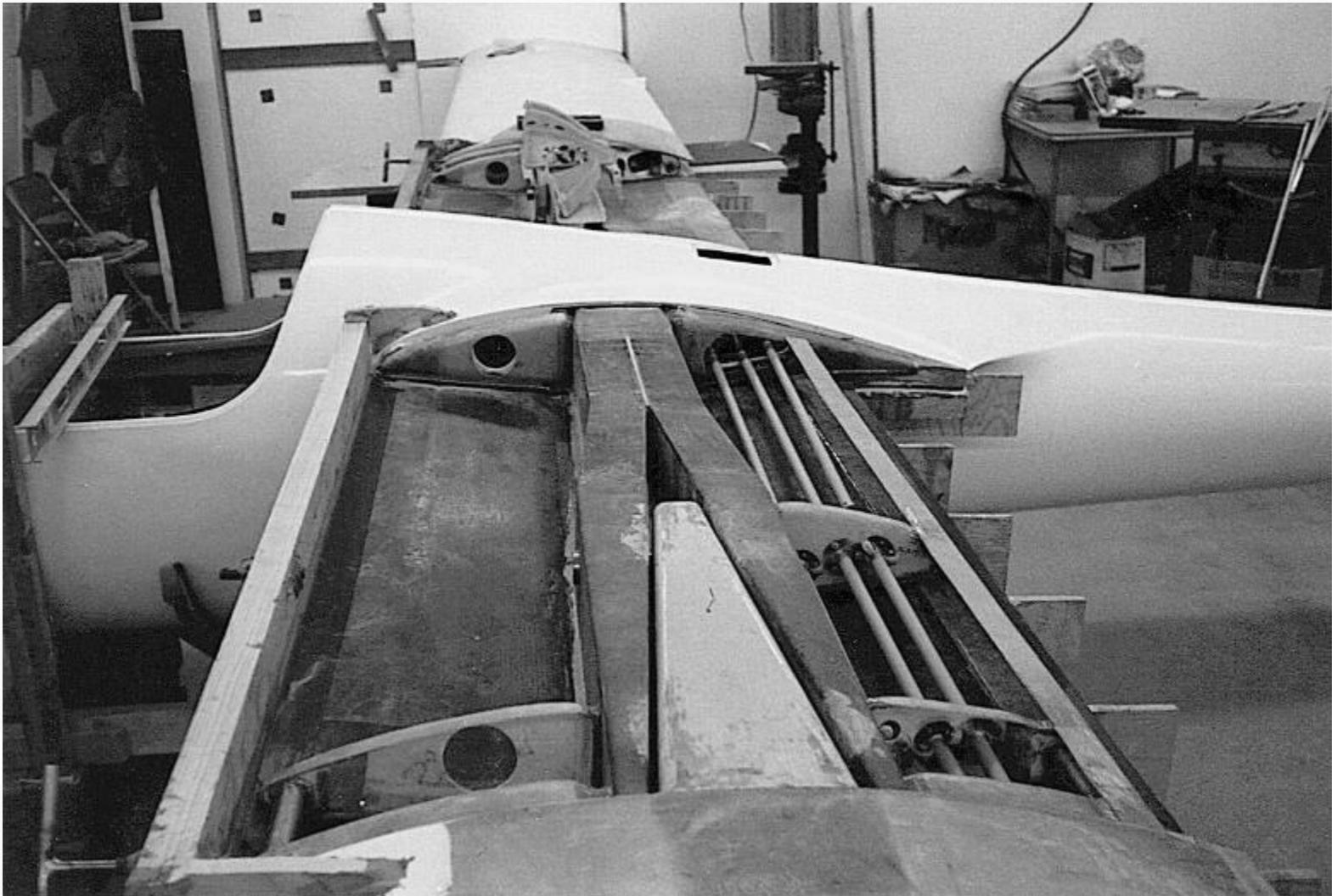


ASW 17

Wing with carrying shell



Dick Butler's - ASW 17 - 23m span



Akaflieg Braunschweig SB 10



ASH 30

wing - 26,5m span



ASH 30

wing strength test

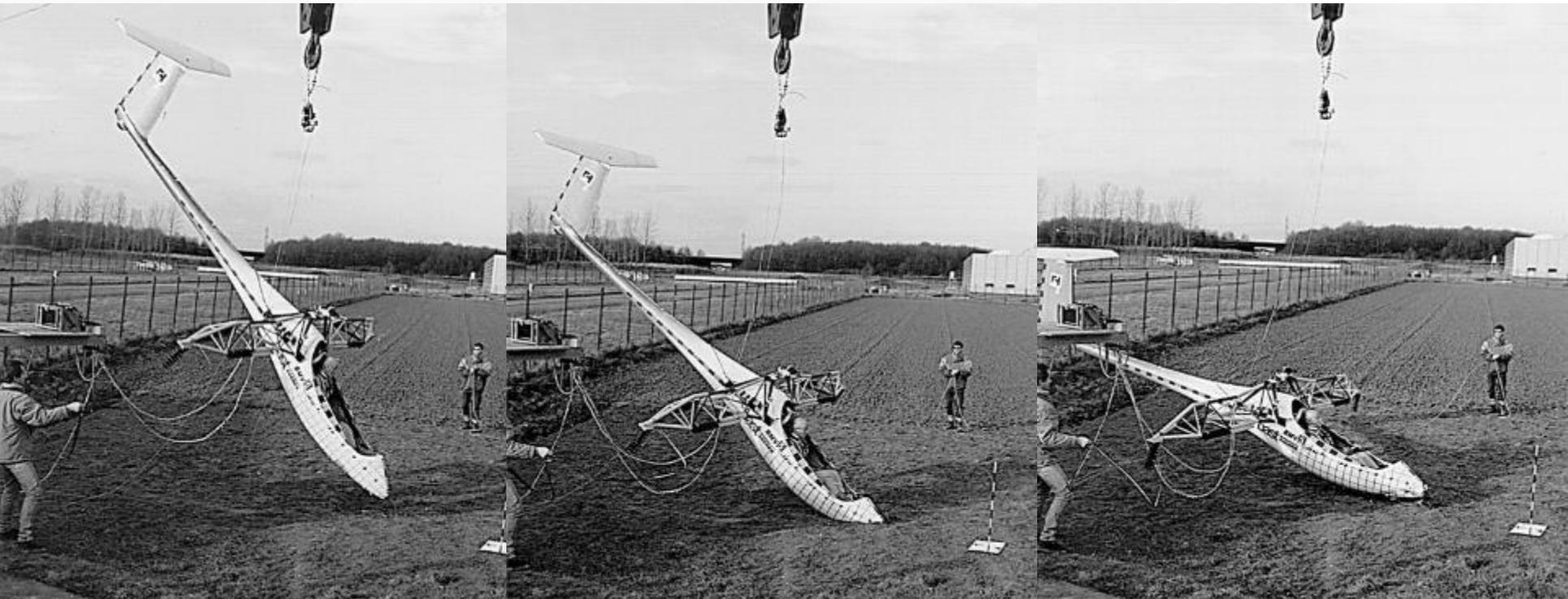


ASK 21 fuselage mold



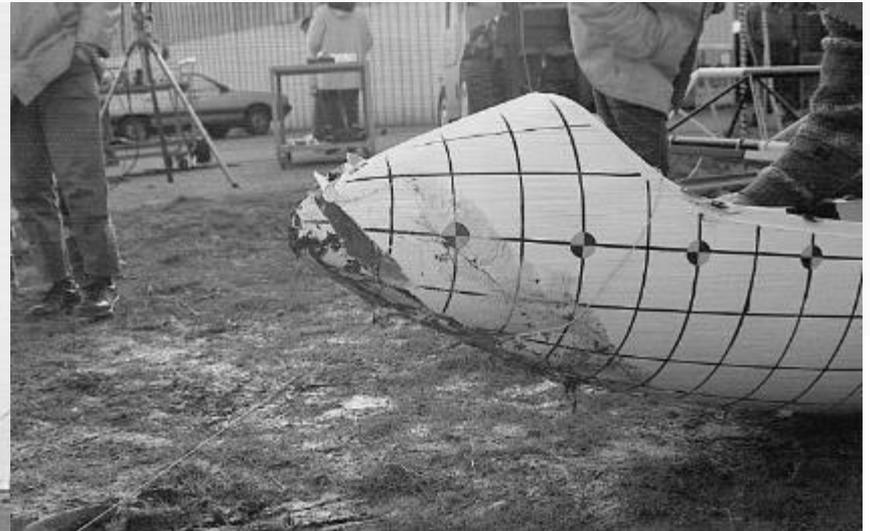
ASW 24

fuselage crash test part 1



ASW 24

fuselage crash test part 2



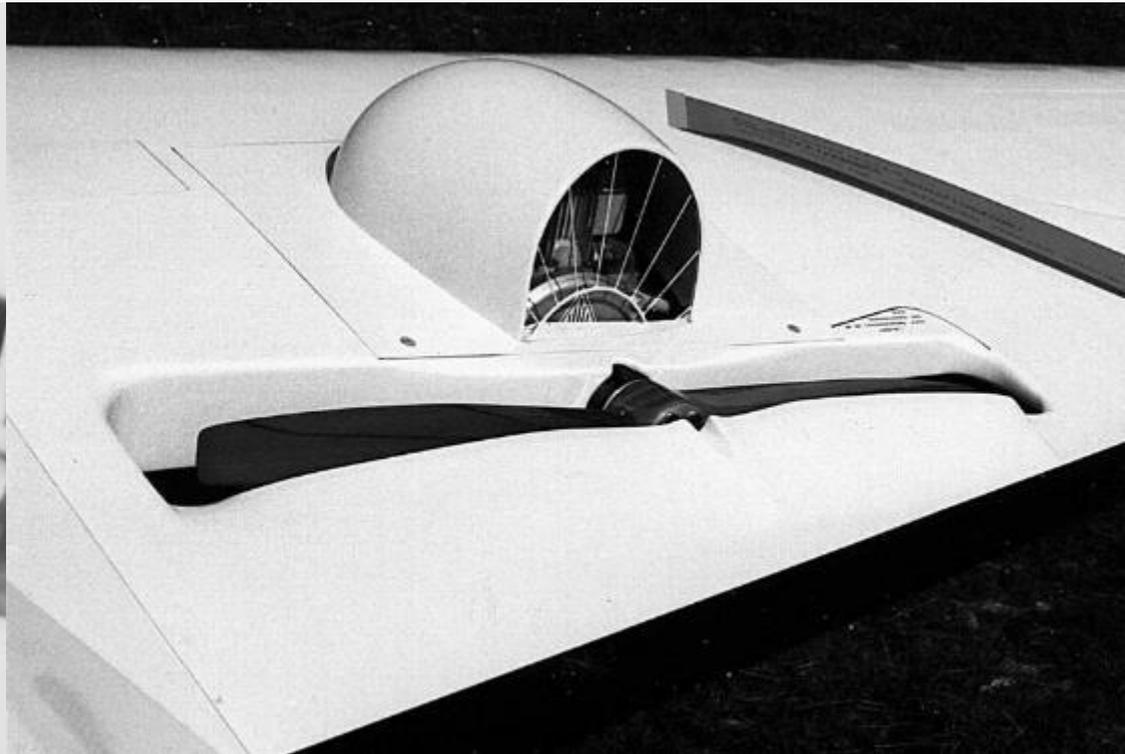


ASW 28

rescue system



Ka 8 Propulsion systems



ASW 15, ASW 24 Propulsion systems



ASK 14, ASK 16

Propulsion systems



ASW 20

Propulsion systems

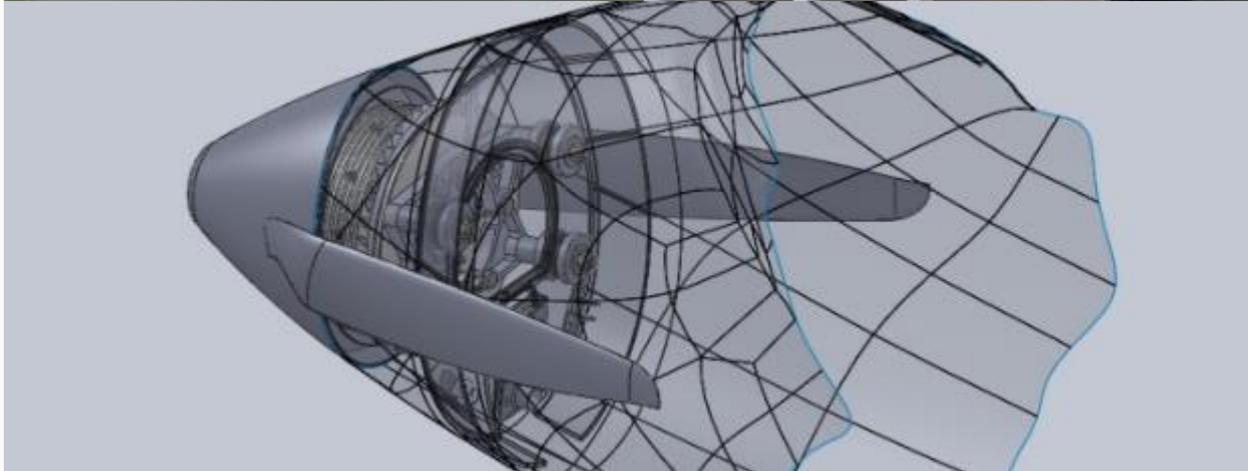


FES Front electric sustainer

source: front-electric-sustainer.com



source: Aerokurier



source: front-electric-sustainer.com

Designer team 1968

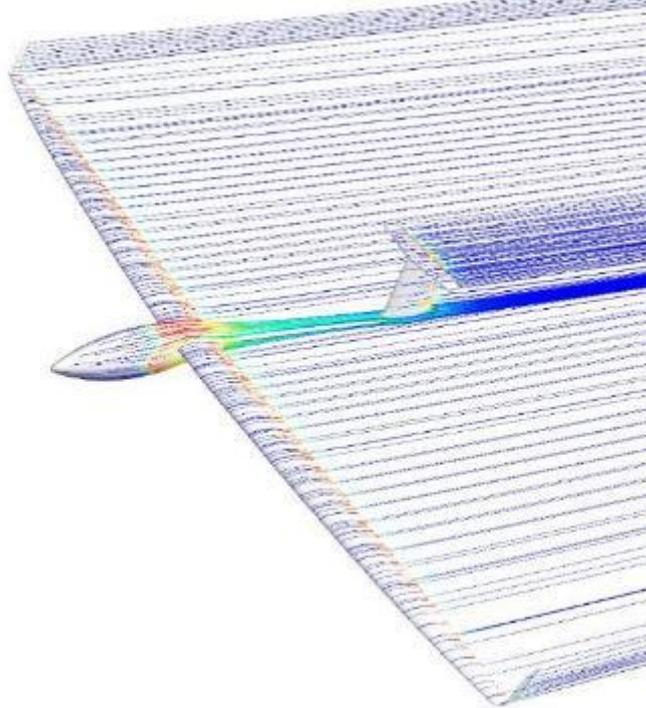
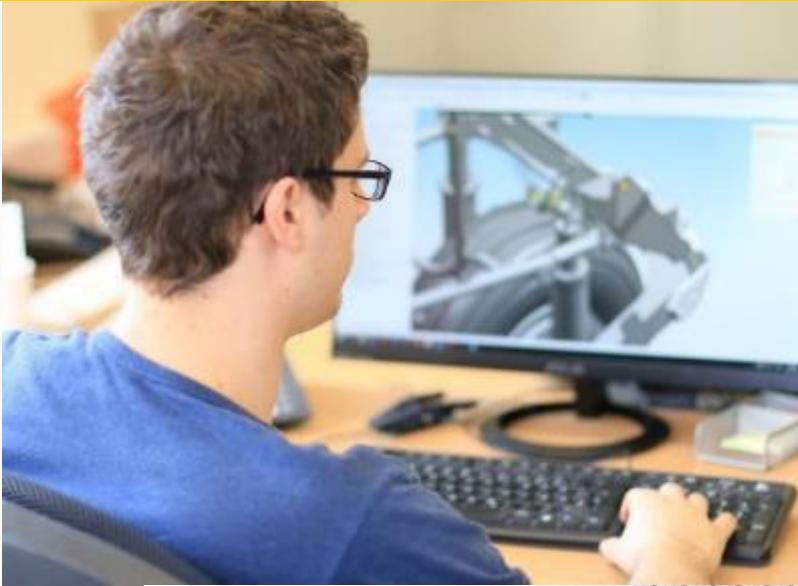
Rudolf Kaiser and Gerhard Waibel

Gerhard was proud to have a better slide rule as Rudolf



Designer team today





Current production: ASK 21 B

Serial number 1.000 (!) in production

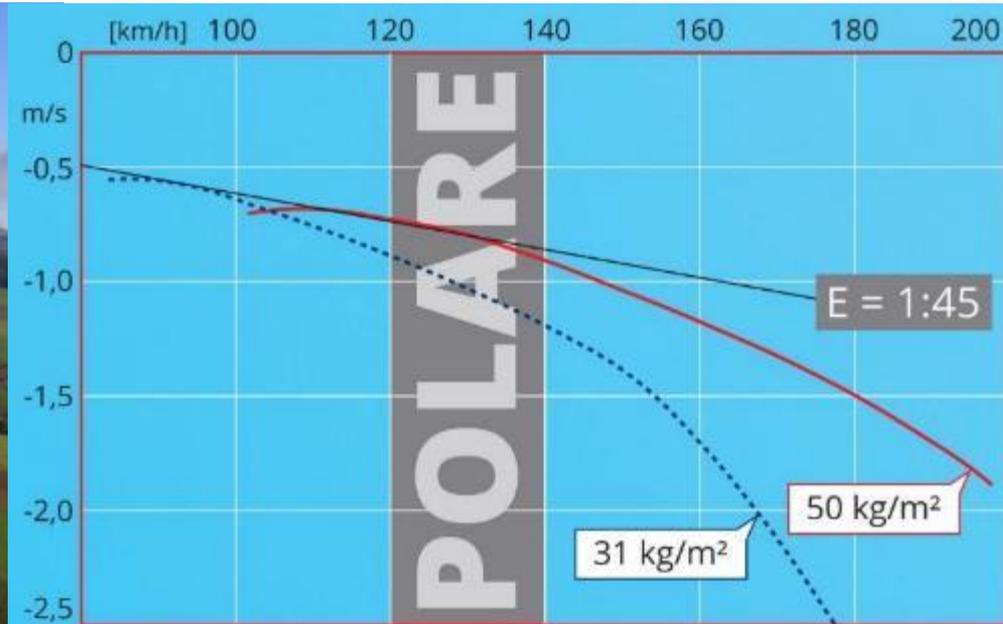




ASW 28 B

The allrounder!

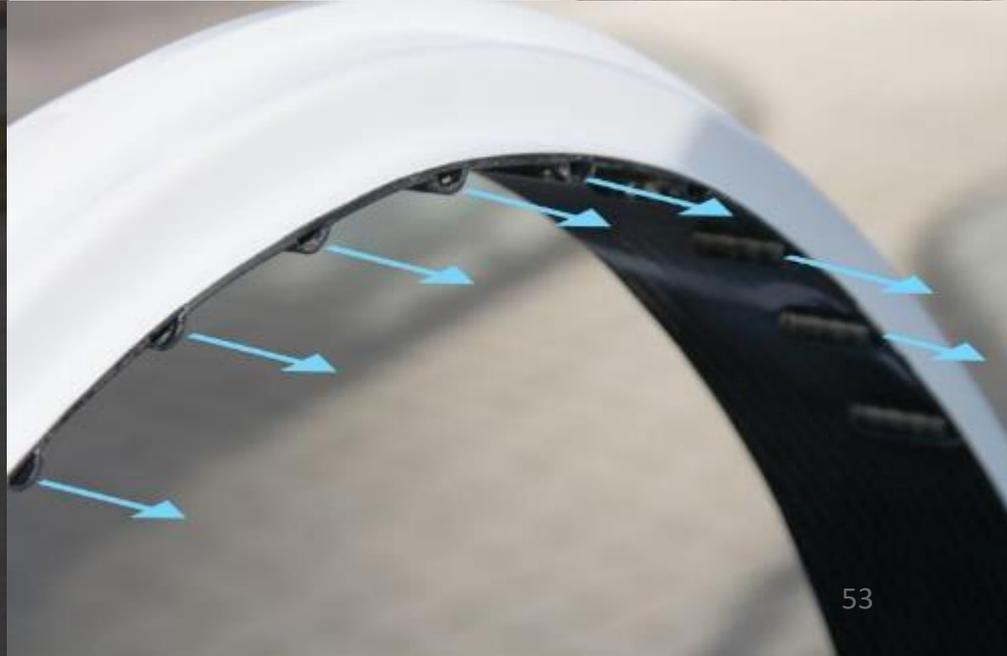
Pure 15m Standard Class glider for basic training and cross country flights



ASH 30 Mi Open Class two-seater



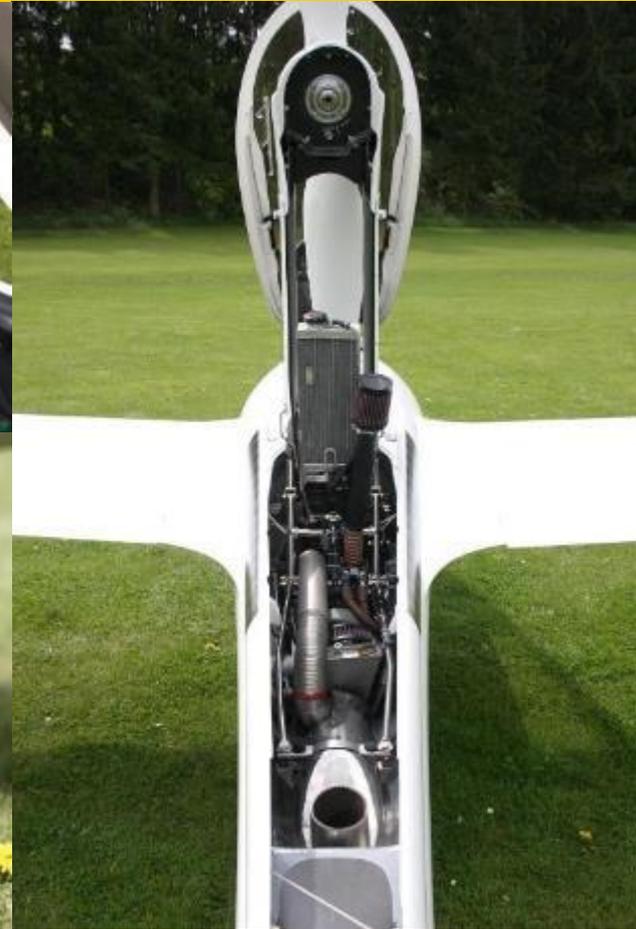




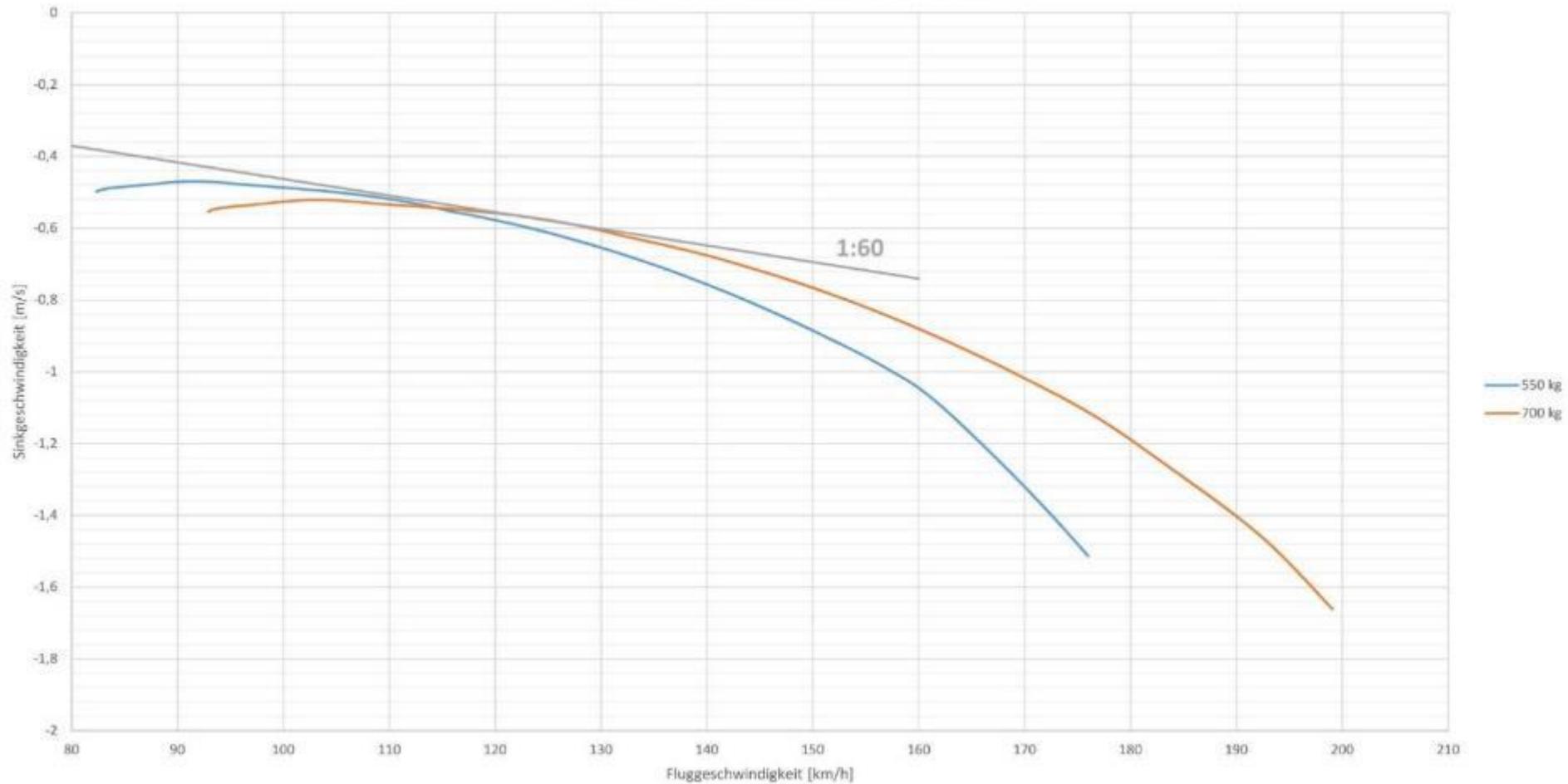
ASH 31 Mi S/N 220 in production!

18m & 21m flapped self-launcher





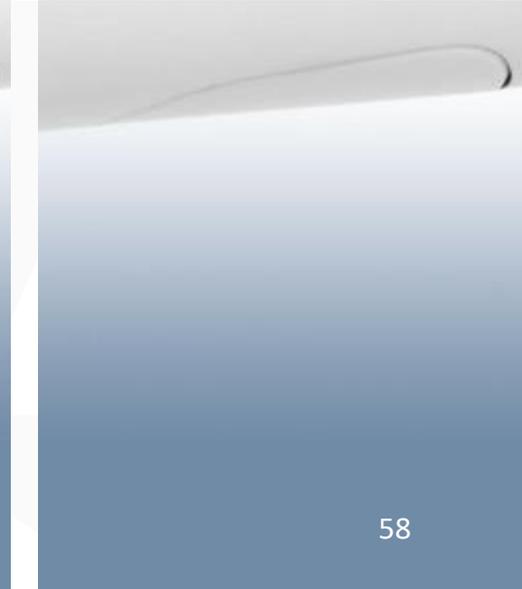
Geradeausflugpolare "Idafliegmessung 2019" ASH 31



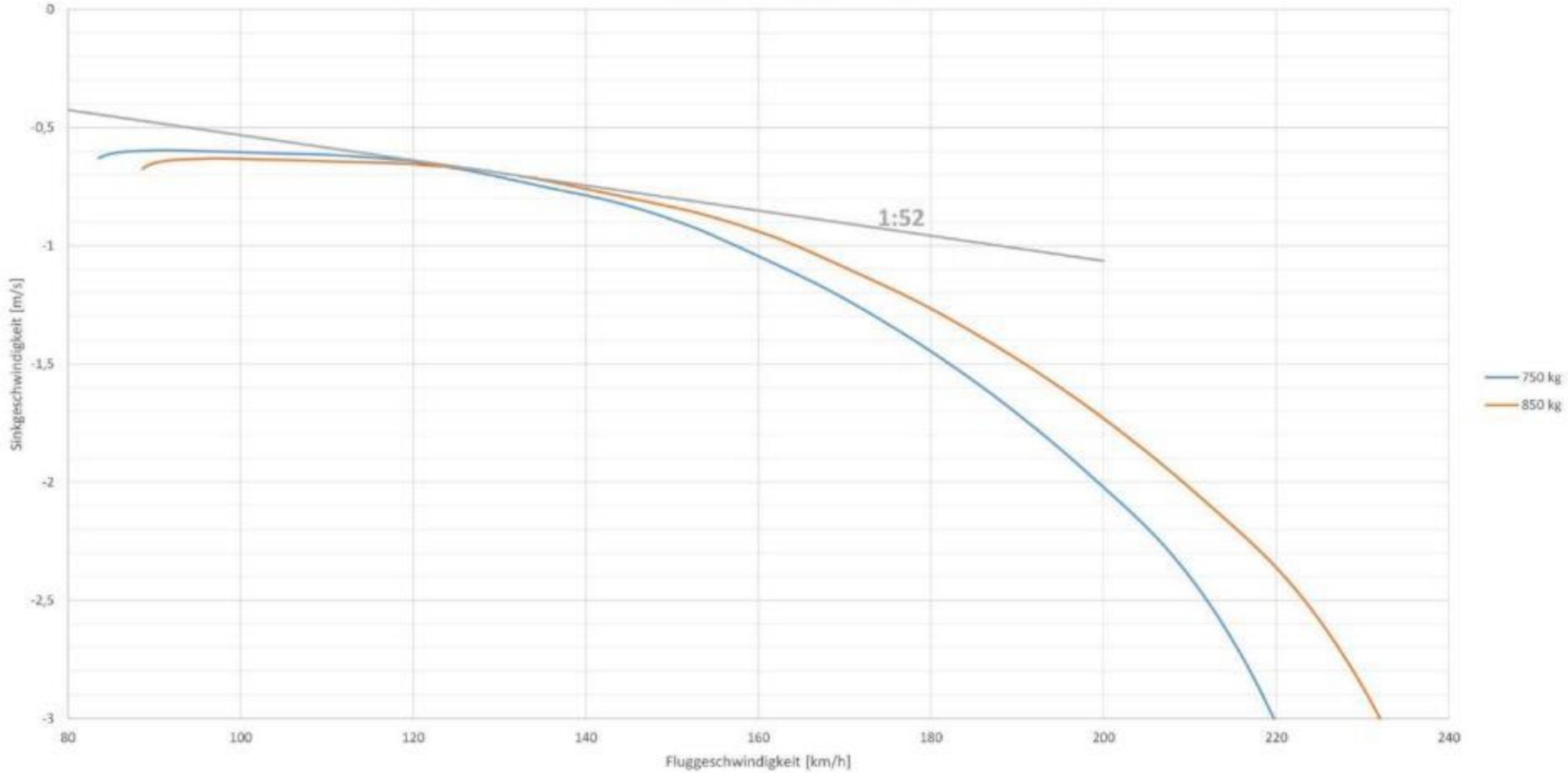
ASG 32 20m flapped two-seater

pure glider, with electrical sustainer or as self-launcher

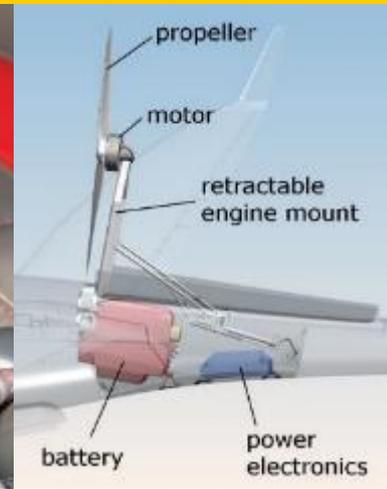




Geradeausflugpolare ASG 32





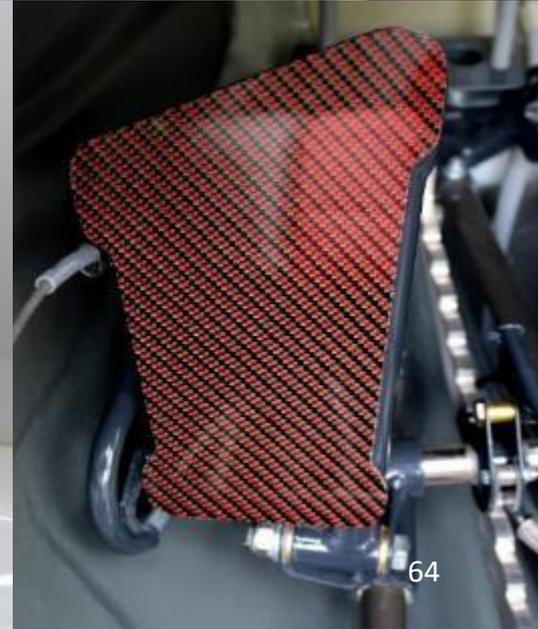


AS 33

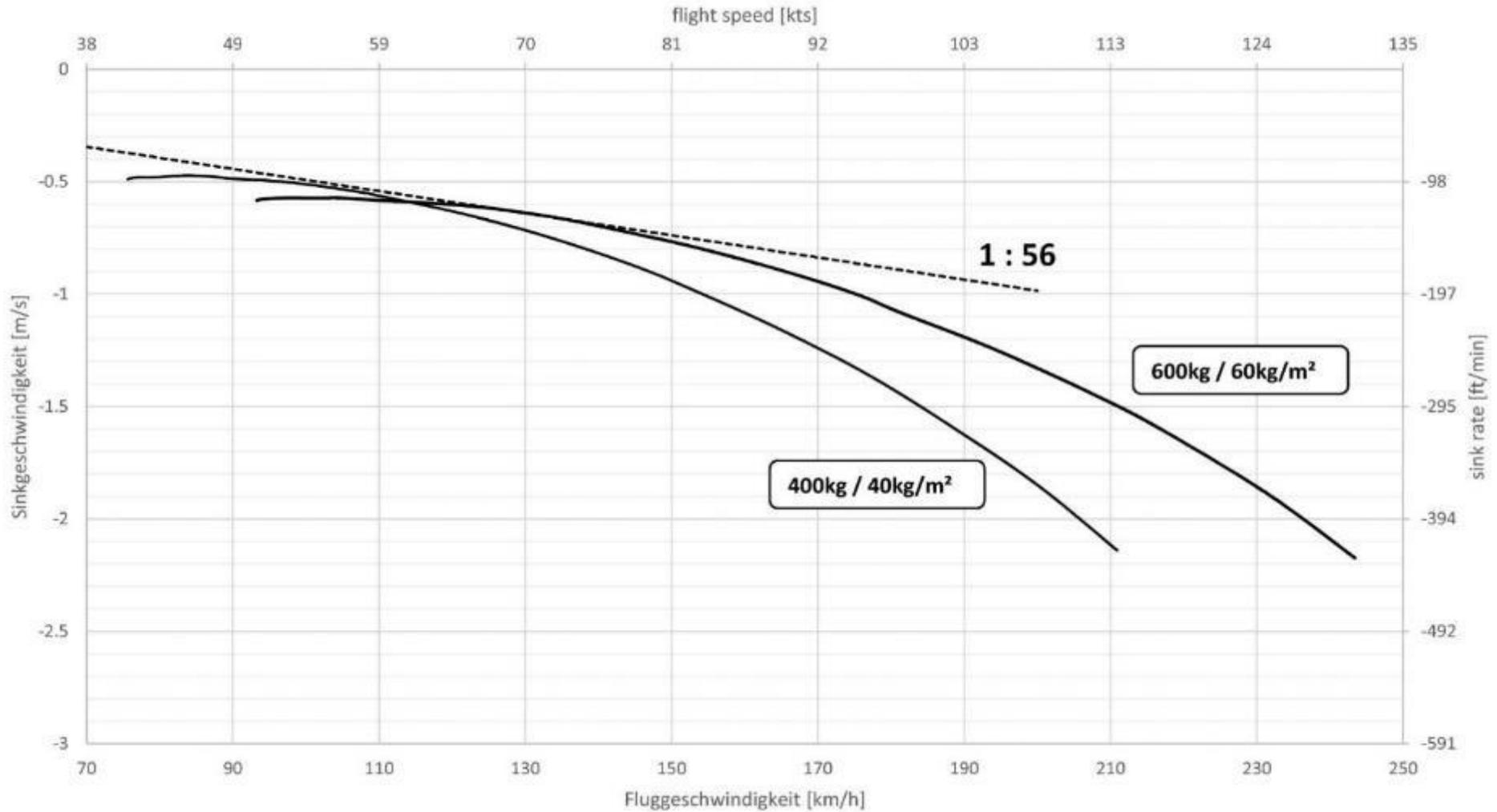
The new 15/18m racer



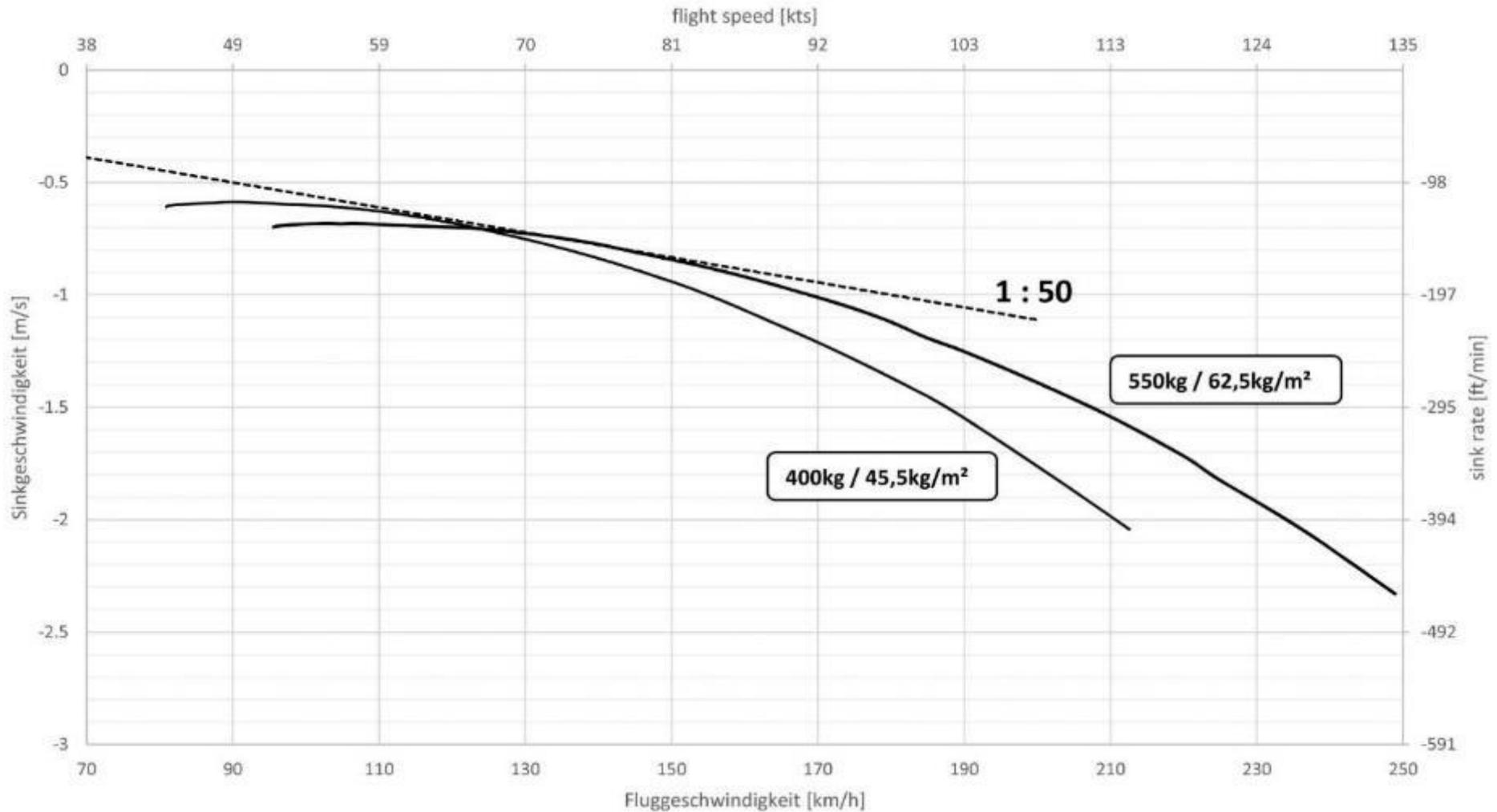


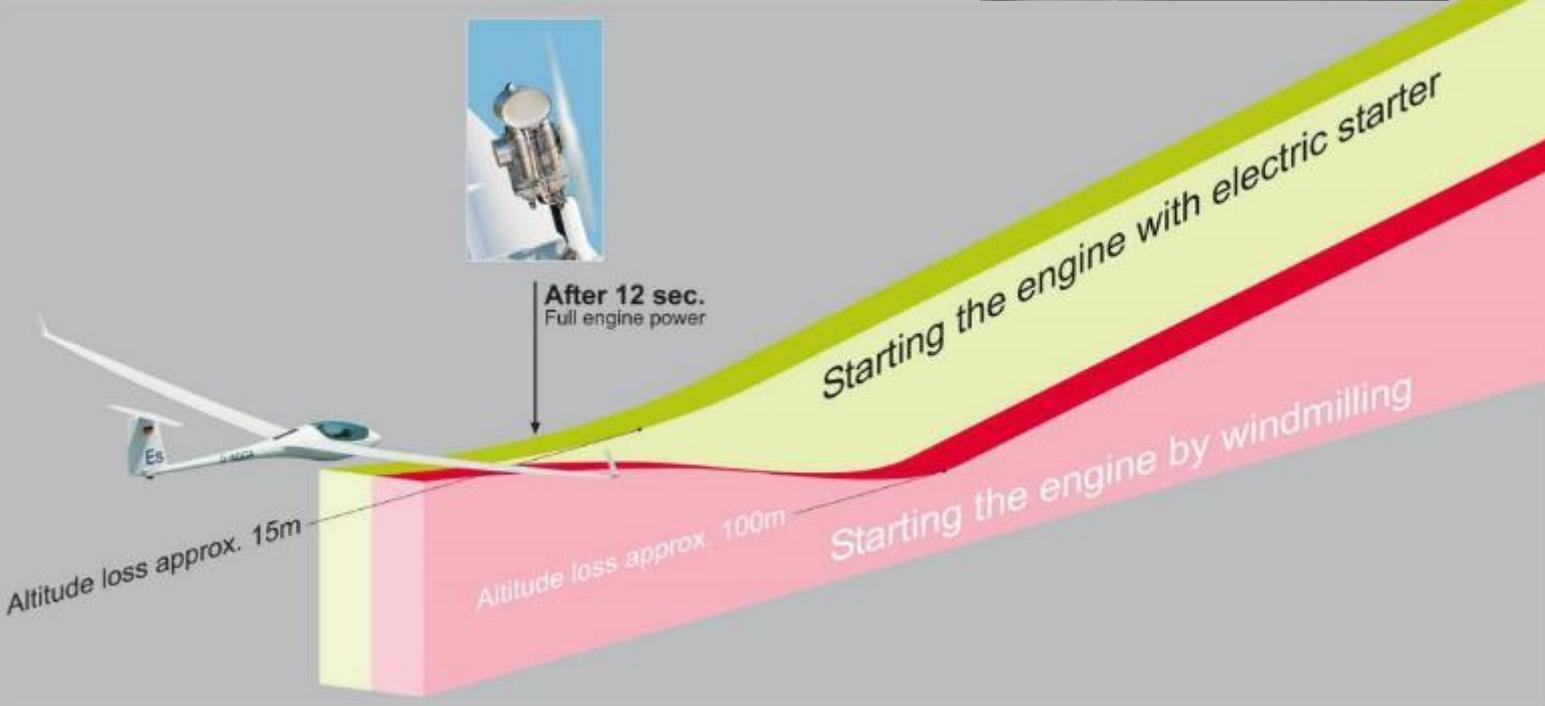


AS 33 18m - Polar



AS 33 15m - polar

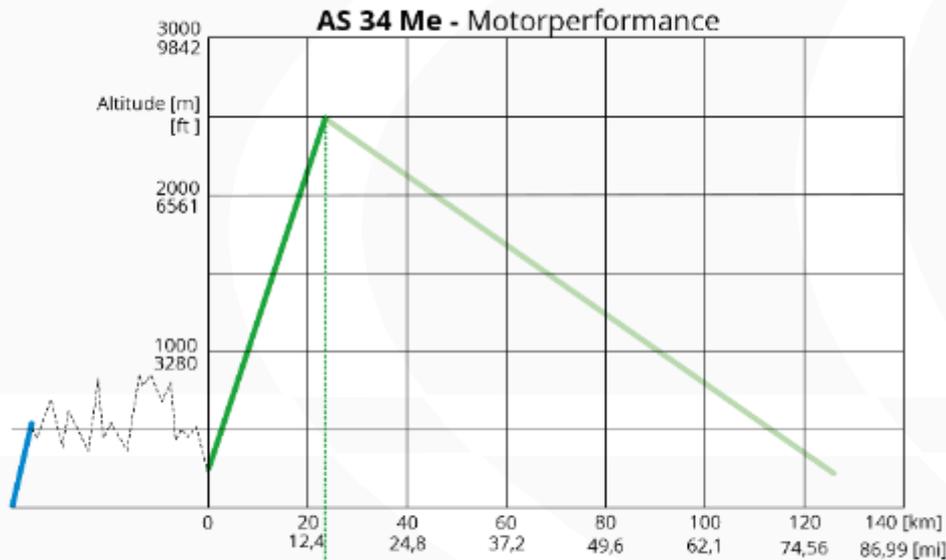
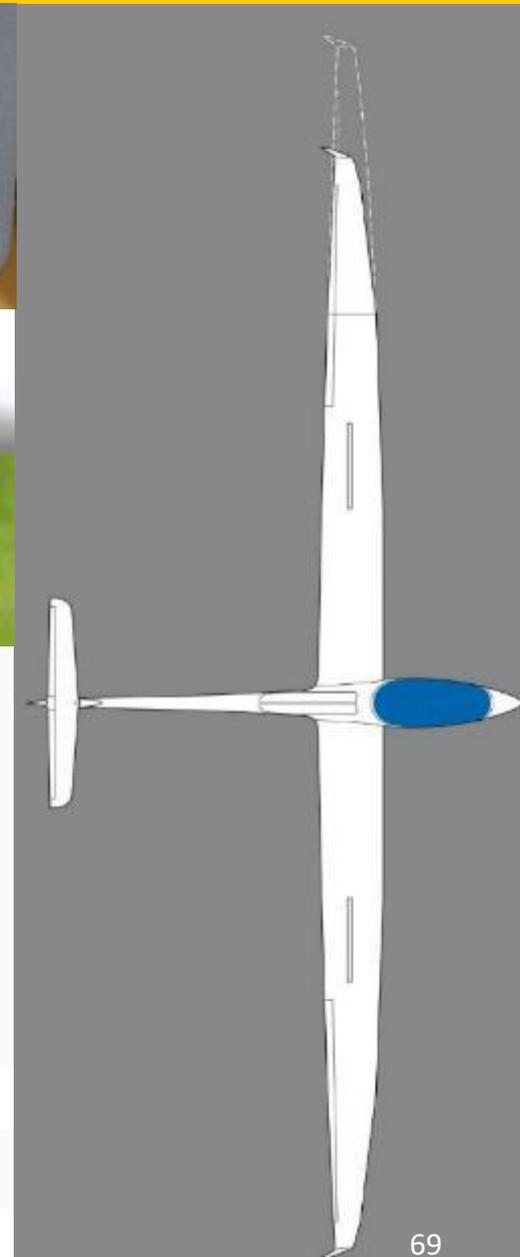
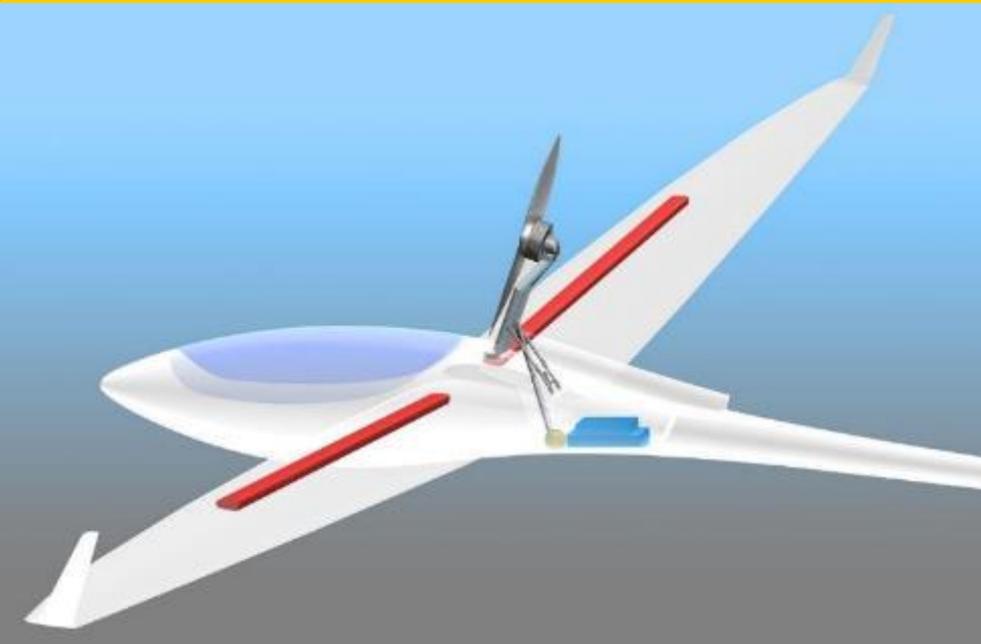




AS 34 Me Self-launch simply electrically

An easy to handle glider combined with an easy to handle engine system





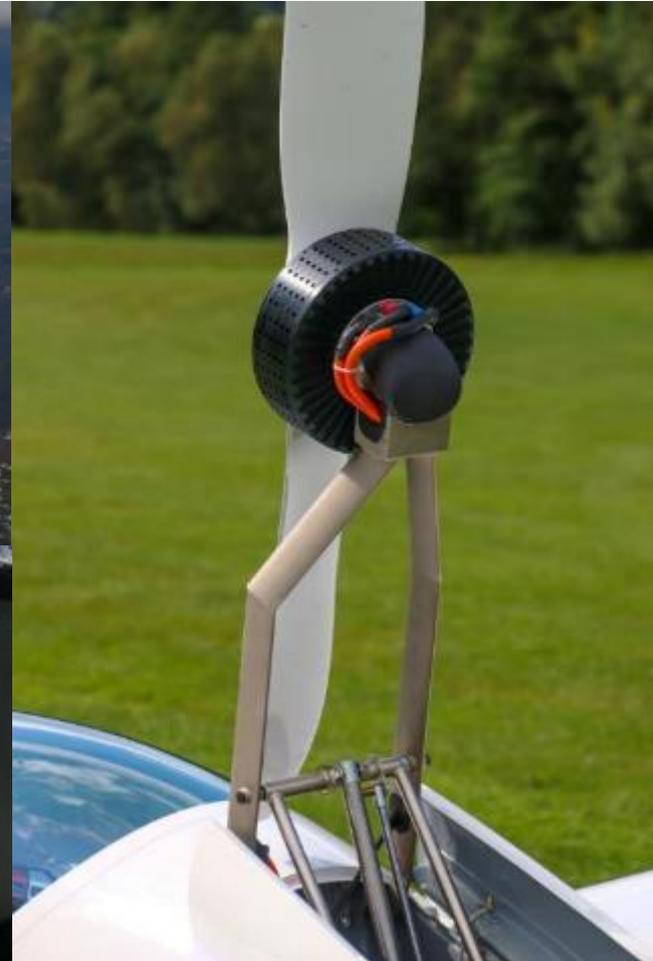
Selflaunch
Climbing 3,0 m/s /
7480 rpm with M1 GAV

Gliding

Climb
with 2,5 m/s
492 rpm

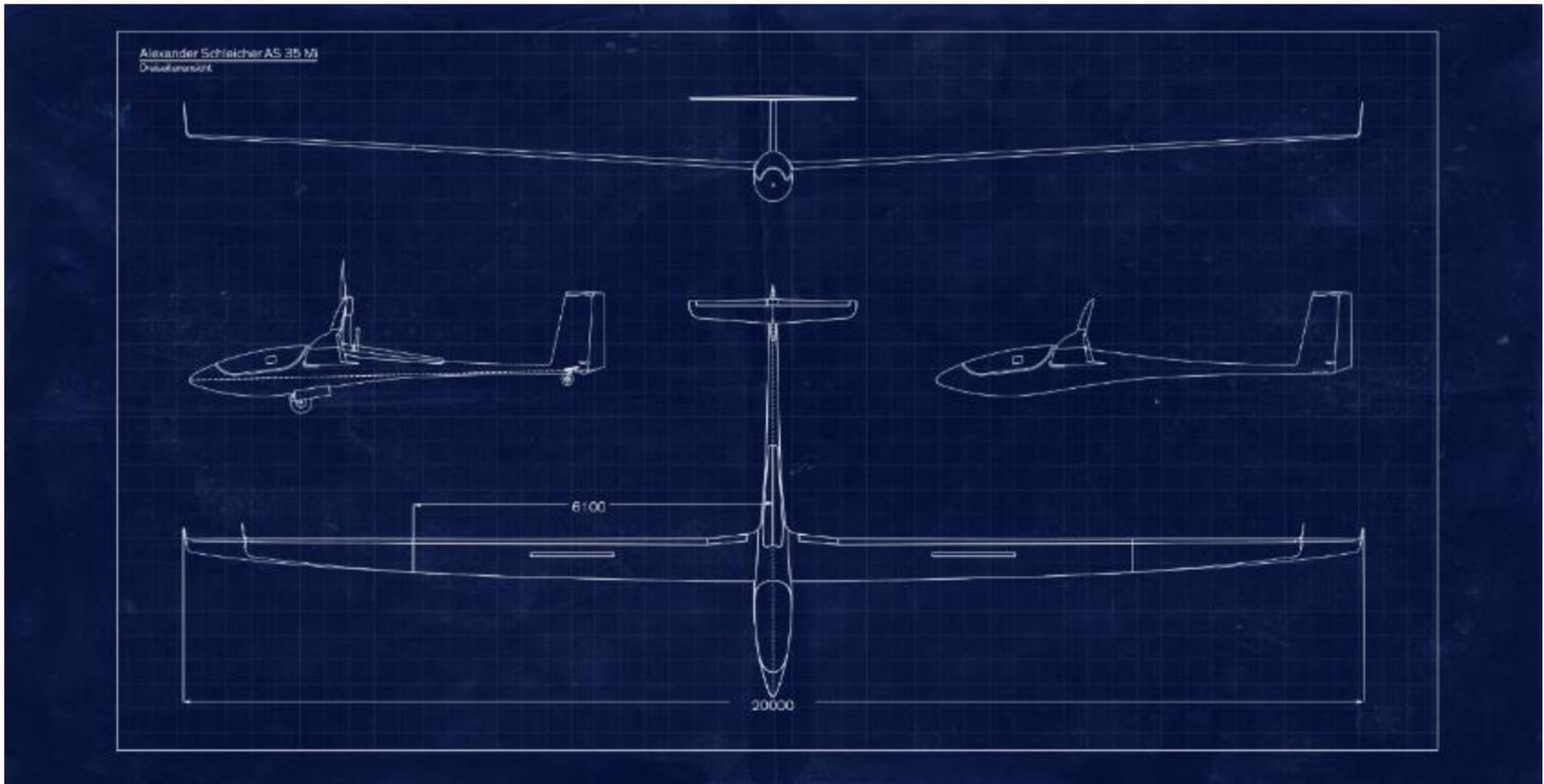
Glide 1:48 (18m Wingspan)

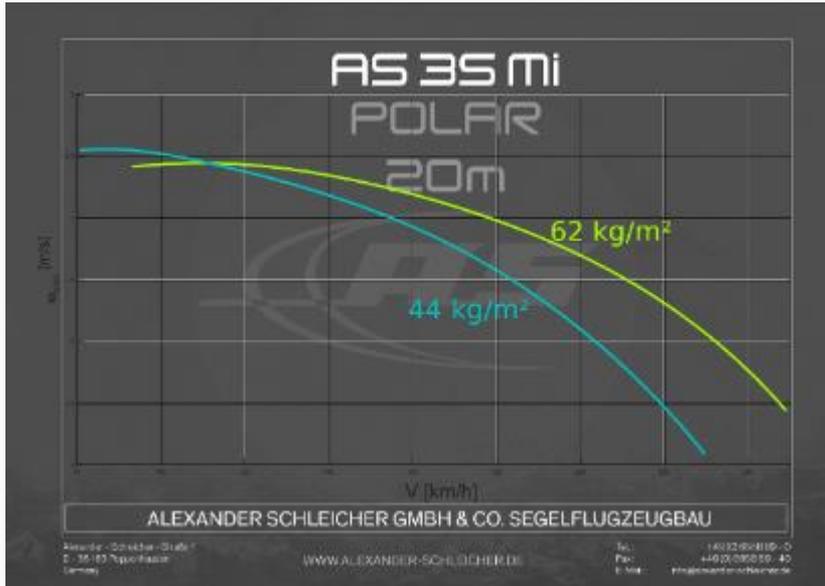
AS 33 Me The 18m racer electrified



AS 35 Mi 20m open class glider

with optional 18m wingtips





TECHNICAL DATA

Wing span	20 m - 65.6 ft
Wing area	11.75 m ² - 126.4 sqft
Aspect ratio	34,0
Separation point	6.1 m - 20 ft
Empty weight	448 kg - 987 lbs
MTOW	730 kg - 1609 lbs
Min. wing loading	44 kg/m ² - 7.8 lbs/sqft
Max. wing loading	62.1 kg/m ² - 12.76 lbs/sqft



All Alexander Schleicher employees
thank you for your attention!

