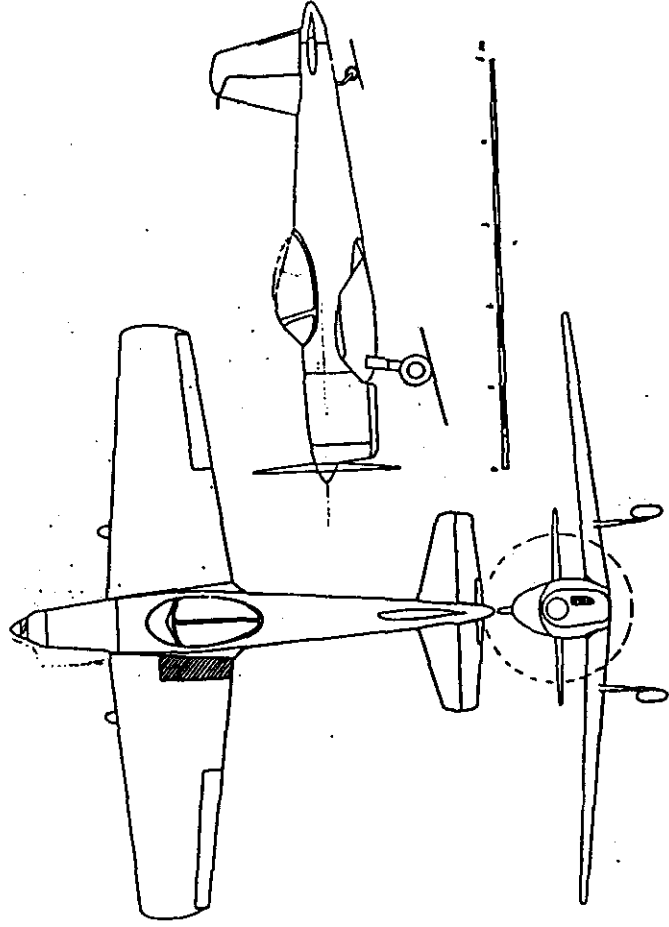


# KZ VIII — en ny dansk flyvemaskine

på kun 7,2 m spændvidde



## Aircraft Type Specification no KZ-VIII.

Manufacture: Skandinavisk Aero Industri (SAI)  
Certificate holder: Scanaviation from jan.15/65 to sept.14/85  
Certificate holder: KZ & Veteranfly Klubben from sept.14/85

I. Model KZ-VII 1 PCLM (normal and utility cat.) Monoplane  
Wing profil, NACA 23018 at center Wing and  
NACA 4412 on wing tip.  
Approved Jan.20 1950

Engine DH Gipsy major VII (145 HP)  
(se item 105 for alternate engine)

Fuel 80 Octane aviation gasoline

Engine limits Max. RPM 2550  
Max. RPM 2400 (142 HP max 1 min.)  
Max. RPM 2300 (139 HP in normal cruise)

Airspeed limits Max. 340 km/h VNE  
Max. 280 km/h VNO  
Max. 200 km/h VMO  
Max. 130 km/h Flaps extension speed

Propeller limits See Engine

C & G range 235,3 to - 241,3 cm

Max weight 650 kg (MTOW)

No of seat 1 (one) (264)

Max begage 10 kg (347)

Fuel capacity 85 liter (7 liter unusable) (223)

Oil capacity 10 liter

Serial no elegib. 202 built by SAI  
203 built by SAI but assmbl. by Firma  
Strobl &  
Habenschaden o.H.G Munchen Flughafen.

KZ-VIII (cont)

Specifications Pertinent to all models.

Datum	200 cm FWD of firewall
Leveling means	Thrust line (crankshaft) Horizontal line, in canopy rail side
Control surface	Elevator up 165 mm +/- 5 mm Elevator down 130 mm +/- 5 mm Elevator trim up no limits Elevator trim down no limits  Aileron up 105 mm +/- 5 mm Aileron down 115 mm +/- 5 mm  Rudder up 320 mm +/-15 mm Rudder down 320 mm +/-15 mm  Flaps Pos.: 1 neutral pos (retr.) 1 start pos 1 land pos (70°)
Certification Basis	English air ministration of airworthiness hand-book for Civil aircraft A.P.1208.
Equipment	A plus (+) sign preceding the weight of an item indicates net weight change whenthat item is installed. Approval for installation of all items of equipment listed herein has been obtained by the manufacturer except those items preseded by an asterisk (*). The asterisk denotes that approval has been obtained by some other than the Aircraft manufacturer. An item marked with an asterisk may not have been manufactured under a SLV monitored or approved quality control system, and therefore attention should be paid to workmanship and conformity with pertinent data called for in this Specification.

KZ-VIII (cont.)

Propeller and Propeller accessories.

1. With Gipsy Major VII (145 HP) engine
  - a. Wood propeller Type Airscrew  
Model: Diam. 1.753 cm  
Pitch 1.048 cm
  - b. Wood propeller type Hoffmann  
Model 185/145/8,8/LM/21/LZ
2. With Gipsy Major 10 MK 2 (145 HP) engine
  - a. Wood propeller HO 21-183-172
  - b. Wood propeller HO 21-183-140LK

Engine and Accessories- Fuel and oil system.

101. Gipsy Major VII (145 HP) engine (same as MK 10 MK 1)  
Noted propeller shaft.  
Fuel min. grade 80 octane aviation gasoline  
Engine limits: 2550 RPM  
Max. 2400 RPM at T/O (142 HK) limits 1 min.  
Max. cont. 2300 RPM (139 HK) at cruise  
Oil in tank max. 10 liter.
102. Fuel in main tank 2 x 42,5 liter (223)
103. Oil filter- Gipsy auto clean system
104. Oil cooler- Intergrel in engine
105. Alternate Carburetor for aerobatic flight  
Type W 45 AKG (Check. manufactured)
106. Gipsy Major X MK 2 (145 HP) engine (splined shaft)  
Specification same as MK 1.

KZ-VIII (cont.)

Landing gear.

- 201. Main wheel assemblies KZ drawing no
  - a. Wheel assy KZN
  - b. Brake system (mechanical)
  
- 201A. Main wheel assemblies Manufactured by Dunlop
  - a. Wheel type Dunlop
  - b. Brake system hydraulic type
  
- 202. Main wheel Tires and Tubes
  - a. Tire size 6.00 x 6
  - b. Tube size 6.00 x 6
  - c. Air pressure 28 psi
  
- 204. Tail wheel assemblies type KZ Drawing 1123-04
  - a. Solid type wheel, with ball bearing KZ 1123-01
  - b. Split type air pressure wheel KZ 1123-10/01
  - c. Tyre size 2,5 x 3,00
  - d. Tube size 2.5 x 3,00
  
- 214. Shock strut type KZ drawing 1122 U1
  - a. Mechanical spring with friction brake KZ 1123-0602

KZ-VIII (cont)

Electrical equipment.

301. Batteries for communications.(Optional)
- a. One (1) lead battery 12 v. 35 amp. 12 kg ( )
  - b. One (1) dry battery 12 v. ( )

Interior equipment.

401. a. CAA Approved Airplane flight manual  
b. Owners operation manual for engine Gipsy Major X  
c. Owners operation manual for KZ VIII.

Miscellaneous equipment.

610. Shoulder harness as required by SLV BL.1.12 pt 7.3.4

Required placard.

- a. With following description:  
The aircraft is approved for Aerobatic flight in accordance with German "Flighthandbuch" for KZ-VIII (ausgabe 1 july 62)
- b. Max Posetive 6 "G"  
Max Negative 4 "4"

Bemærk: Nedsat af SLV til Pos. 6 G- Neg. til 3 G

KZ-VIII (cont.)

Instrument marking:

1. Airspeed	VNO Green arc (normal)	80 to 280 km/h
	Yellow arc (caution)	280 to 340 km/h
	VNE Red mark (Max speed)	340 km/h
	VFE White mark (Max flap ext.)	130 km/h
2. Oil press indc.	Green line (normal)	2.5 - 3 kg/cm/2
	Red marks (min.oil press)	2.2 kg/cm/2
3. Oil tempt.	Green arc. (normal)	30 - 80°C
	Yellow arc. (caution)	80 -100°C
	Red marks (warning)	100°C
4. RPM indicator	Red line (GM-X)	2550
	Red line (GM-VII)	2350
5. G Meter	Red marks	-3 - and + 6 G

END

### Beschreibung der KI VIII.

Die KI VIII ist für Schnellkunstflug konstruiert und für Belastungen bis 12 G berechnet.

Das ungeteilte einholmige Tragwerk ist mit dem Rumpf vorderteil zusammengebaut. Das Rumpfhinterteil wird mit Bolzen am Vorderteil befestigt.

Das Flugzeug ist in einer kräftigen Sperrholzkonstruktion hergestellt.

Das Führerhaus ist bequem und sowie mit normalen als Kleinfluginstrumenten und HF Radio ausgerüstet.

Der tropfenförmige Plexiglashaube wird durch Verschieben nach Linten geöffnet und ist abwerfbar.

Das Einbaufahrwerk hat Schraubenfeder und Reibungsdämpfung. Das Sperrrad ist steuerbar und während Start und Landung zu Verriegeln.

Der Motor ist ein De Havilland Gipsy Major 145 PS. Wir haben den Motor mit einem Walter Kunstflugvergaser ausgerüstet und dadurch dem Flugzeug alle Flugstellungen erlaubt.