

»I was really surprised about the agility for a two-seater. The moving masses are, of course, higher compared to a single-seater. But the rudder vote can be described as extremely successful. The harmony in the <u>controls sets</u> standards in its class. « Gustav Remschnig

PROUDLY PRODUCED BY HPH TEAM



long-range flying. The good performance of the TWIN SHARK right go in all damper positions even at speeds around 90 is the result of extensive aerodynamic studies and wind-tunnel km/h (or even below) extremely fast. The coordination of the tests as well as of a longterm test phase in real atmosphere. rudder is simply perfect, with little impact and absolutely It also builds on the experience gained in the development easy to maneuver without sliding. Climbing in thermals with of the single-seater SHARK.

- class-leading performance, and advanced manufacturing 80km/h) the TS doesn't resent it still climbs neatly. Despite techniques provide wing loadings as low as 39 kg/m<sup>2</sup>. its agility, the TS flies calmly, not nervous at all. The wing At 850 kg maximum load, the loading is 55.5 kg/m<sup>2</sup>. is pleasantly stiff and displays thermals very well.
- The optimal curved leading edge and SHARK winglets are The airbrakes are very effective and pleasant to use: After maintained through high-end CNC techniques.
- SHARK



Modern aerodynamics are a premise for easy and safe The inflight agility is striking. Curve change 45° left to 45° flap +2 at 90–95 km/h and 45° bank is easy even with wing • A wing area of 15.3 m<sup>2</sup> plus an aspect ratio of 26.5 deliver loading of about 46kg/m<sup>2</sup>. Even very slow circling (down to

unlocking, they open about 20% of the track and from • Reflex-negative mini-winglets on the elevator mimic the there remain neutral in every position without any manual silhouette and gain further performance. effort. The sinkrate at 100 km/h, brakes fully extended is estimated about 7 m/s.

### CLASS-LEADING COCKPIT ENVIRONMENT

Of course, the TWIN SHARK meets the high standards of We implement the proven Binder-Solo 2625-02 engine system ergonomic and guality characteristics known from the HPH based on the Solo motor which provides 62 hp. Shark series. The spacious cockpit easily accomodates tall pilots, and those of generous build.

- A single-piece, side-opening canopy and extended reflex over the wing deliver outstanding visibility for both pilots;
- The key cockpit features which made the SHARK cockpit popular have been maintained in the TWIN SHARK;
- A cockpit ventilation system, in addition to the canopy vent, keeps temperatures comfortable.
- The cockpit noise is incredibly low even at very high Initial climb at 105 km/h, continuous climb at 95 km/h. speeds.

fortable experience for you and your second crew member! 1 min. until CHT 50°C, then shut down and drive in propeller.

### THE TRUSTWORTHY SELF-LAUNCHER

- The 32-liter fuselage tank capacity can be supplemented with wing-tanks for range extension;
- Both motor extension and starter are operated by separate new-age batteries which offer a substantial weight saving capability;
- HPH new digital engine control system with CAN BUS;
- For high reliability industry-standard components are implemented

Engine at about 6400 rpm, climb 2.5–3.5 m/s (21°C outside This is where you enjoy staying for hours – make it a com- temp); Very good engine cooling. After climb idle for approx.



### GEOMETRY

Wing span

Wing area

Aspect ratio

Fuselage length

Profile

### WEIGHTS

Empty weight (without battery and fuel)

Max. take-off weight

Max. water ballast (solo

Min. wing loading

Max. wing loading

GLIDE PERFORMANCE

Best glide ratio

Min. sink rate (min. weig

LIMITATIONS

Stall speed (max. weight)

Fuel tank

Performance is based on calculation data.

### TECHNICAL DATA TWIN SHARK MS

20 m   65.6 ft	
15.3 m²   165 ft²	
26.5	
8.95 m   29.36 ft	
PW10-145/125	
14.5-12.5%	

495 kg   1091 lb
850 kg   1874 lb
240 l   63.4 US gal
39 kg/m²   8 lb/ft²
55.5 kg/m²   11.4 lb/ft²

	49				
peed	128 km/h   69 kt				
:)	0.5 m/s   98 ft/min				
peed	92 km/h   50 kt				

68 I	km/h	37 kt
275 I	km/h	148 kt





## WWW.HPH.CZ



18m FAI Class, with Jet TSS (Turbine Sustainer System) 18m FAI Class, Selflauncher with BSS (Binder Solo System) 18m FAI Class, Front electric sustainer (FES system)

**HpH Ltd.** Čáslavská 234 28401 Kutná Hora (CZ) tel +420.327.512 633 info@hph.cz

 $\bigcirc$ 

N 49° 56' 47.9'' E 15° 17' 7.87''

# LOVE TO FLY SINCE 1964