



Photo: Finnish Aviation Museum

# VL Myrsky II Technical Data

## Engine:

Pratt & Whitney R-1830 SC3-G Twin Wasp. Air-cooled 14 cylinder two row supercharged radial engine. Weight 668 kg. Take-off power 1 065 PS. Critical rammed altitude 3 660 m. Octane requirement 91. Fuel tank 300 litres. Engine was produced in USA but bought from German war booty storages.

## Propeller:

Three-blade VLS 8002 constant speed propeller. Hub and constant speed controller were copied from Hamilton Standard. Blades were made from laminated birch veneer lumber.

## Fuselage:

Welded steel tube structure with detachable motor stand. Wooden formers. Front fuselage covered by duralumin plates and rear fuselage by birch veneer.

## Wing:

Wooden wing with two spars. Spars are box beam structure where waists are made from veneer and flanges from laminated veneer lumber and pine. Three-piece ribs are made from birch veneer and strengthen by pine strips. Wing profile is in root NACA 23015 and in tip NACA 23009. Wing is covered by birch veneer. Ailerons have welded steel tube structure with fabric covering. Flaps are made from duralumin plate. Wing attached to fuselage with four bolts.

## Landing gear:

Landing gear including tail wheel is retractable. Steel structure, steel spring suspension and with oil shock absorption.

## Armament:

Four synchronised 12,7 mm VKT 12,70 Lkk/42 machine guns in engine cowling. Two 100 kg bombs or 150 litres fuel tanks.

## VL Myrsky II in the numbers:

Length:	8,35 m
Span:	11,00 m
Height:	3,00 m
Wing area:	18,00 m <sup>2</sup>
Empty mass:	2 337 kg
Max take-off mass:	3 213 kg
Wing loading:	178 kg/m <sup>2</sup>
Power loading:	3,0 kg/PS
Top speed:	535 km/h (3 300 m) 470 km/h (sea level)
Climbing time to 6 000 m:	9-10 min
Rate of climb:	15 m/s
Ceiling altitude:	9 500 m

## VL Myrsky series and codes:

VL Myrsky (prototype)	MY-1
VL Myrsky I (pre-production)	MY-2...4
VL Myrsky II	MY-5...51

## Important dates:

Design ordering:	8.6.1939
Prototype ordering:	20.12.1940
Prototype maiden flight:	23.12.1941
Maiden flights of pre-production:	30.4. - 11.7.1943
Completions of VL Myrsky II fighters:	21.12.1943 - 25.5.1945
First sortie:	9.8.1844
Last flight:	10.2.1948

Additional info: [www.vlmyrsky.fi](http://www.vlmyrsky.fi)

Source: Raunio, Jukka: "VL Myrsky. Suomalaisen hävittäjälentokoneen tarina". Suomen Ilmailuhistoriallinen Lehti, erikoisnumero 1, 2002.

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