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Main overview:

L-40 Meta Sokol is a single engine, all metal, four seated low-wing plane, landing gear is tail type with forward tail wheel. It is a very economical type of plane for three or four passengers including the pilot. The aircraft is equipped with an engine M 332. M 332 is a petrol, direct injection, inverted, 4 cylinder engine with a compressor and power of 140 HP. Fuel consumption amounts 32 l/hour and the aircraft is equipped with two 55 l fuel tanks located inside the wings. Furthermore, the plane is equipped with an electrically adjustable propeller Avia V-410. The cabin is equipped by dual controls with two half steering wheels and cabin cover slides backwards. Attractions of this plane are vertical and horizontal tail surfaces that are interchangeable between themselves.

History:

The new LD-40 named Meta Sokol appeared in March 1953. This plane is a follower of a fully wooden plane M-1 Sokol (Falcon) and was based on prototype XLD-40 Mír (Peace). There were many problems during the tests in 1954, which led to a decision about complete redesign of this plane. A new prototype XL-40 was flown up in March 1956, the second prototype followed in August 1956. Verification ten units series produced between 1957 and 1958 was still equipped with the engine Walter "Minor" 4-III. The engine M-332 was fitted into the L-40 after its completion and significantly improved its performances. There were 106 planes built in Orličan Choceň till the end of 1959. With L-40 Meta Sokol were several Czechoslovak and world records reached. 60 % of all production of this plane was exported. They flew in Germany, Great Britain, Switzerland, but also in Australia.

Main technical data:

Engine	M 332
Engine power	103 kW / 140 k
Maximum speed	240 km/h
Maximum range	1100 km
Service ceiling	5000 m
Empty weight	534kg
Max. take-off weight	935 kg

Wingspan	10,05 m
Length	7,54 m
Height	2,52 m