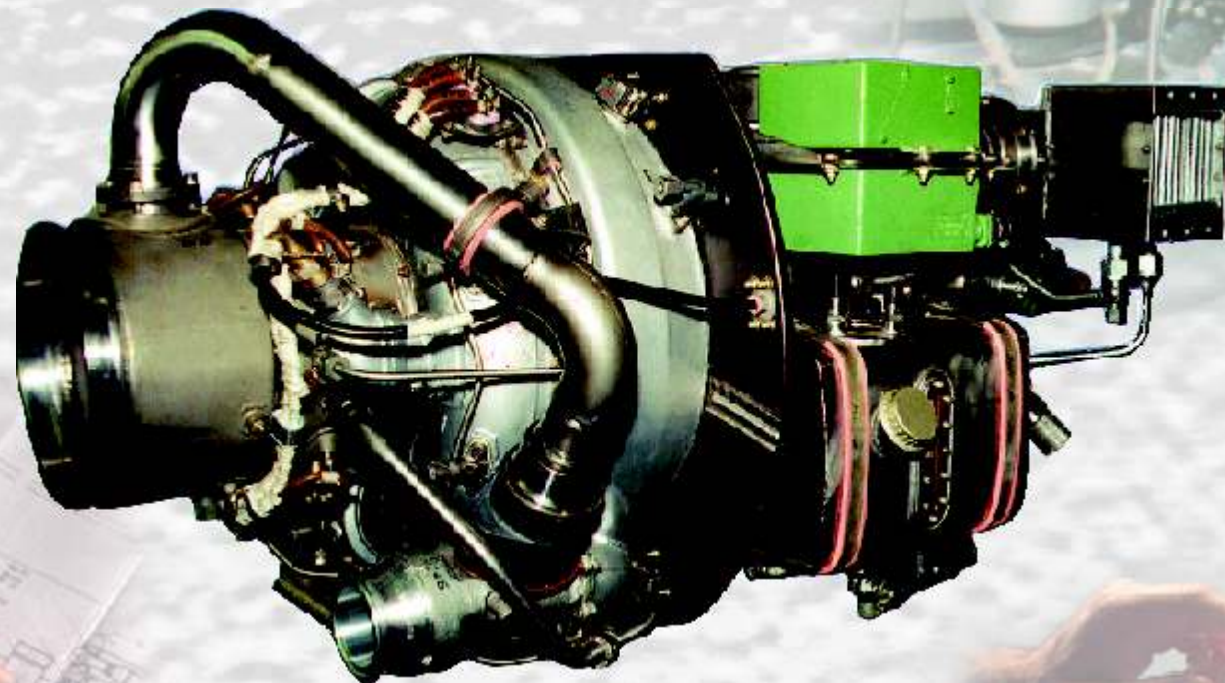
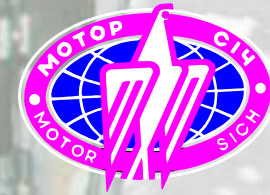


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AV19-35

AUXILIARY GAS TURBINE ENGINE

9-3

AUXILIARY GAS TURBINE ENGINE

9-3
-140,
-9,
-40 -14 -24

The AI9-3B engine is designed to power An-140 aircraft and various aircraft and helicopters manufactured in CIS countries. It is a modified version of AI-9 production engine used as APU in Yak-40 aircraft and Mi-14 and Mi-24 helicopters.

Application:

compressed air generation to start propulsion gas turbine engines;
electric generator drive;
compressed air generation for aircraft air conditioning system

($\alpha = 0$; $M = 0$; $t = +45^\circ$)

Performance (S/L static; +45°C)

Maximum power on electric generator terminals (without customer air bleeds), kW	16
Bled air flow rate, kg/s	0.4
Total bled air pressure, kg/cm ²	3.3
Fuel consumption, kg/h	92
Engine weight (with accessories), kg	128

Advantages:

Application of APU with AI9-3B engine ensures:

- extended aircraft operating time;
- reduced propulsion engine operating time;
- improved operational safety;
- reduced expenses on auxiliary ground-based facilities and maintenance personnel;
- availability of additional air and power sources in flight up to 6000 m.

20.12.2005 Dyachuk

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