

- Leading company of Ministry of Industrial Policy of Ukraine in the area «Electronic systems of measurement, parameters monitoring and control of aviation engines»,
- Scientific organization, which is installed in Ukraine State Register and has the state support,
- Member of international Associations of aero-engines manufactures.

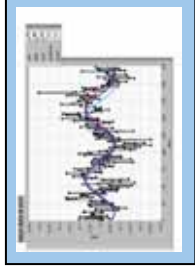
# Licenses and certificates

- Design organization certificate that is issued by Interstate Aviation Committee, Moscow, Russia;
- Production approval certificate that is issued by State Administration of Ukraine for Aviation Safety Oversight;
- License on development, production, selling, repair and modernization of military equipment, which is issued by Ministry of Industrial Policy of Ukraine;
- Certificate of leading scientific organization in area “Electronic systems of measuring, monitoring and control of aviation engine” which is issued by Ministry of Industrial Policy of Ukraine;
- Certificate of State Registry of scientific organizations issued by Ministry of Education and Science of Ukraine.



# Main scientific and technical directions

- Measuring transducers and systems,
- Aviation control and monitoring systems,
- Program and technical complexes of aviation engine testing,
- Commercial and military weather stations,
- Control systems of wind and wind-diesel power stations.
- Embedded real-time applications,
- SCADA system for engine testing,
- Monitoring and simulation software,
- Gas-turbine engine models,
- Trend and correlation analysis tools.



# Pressure transducers

**P319** – 4... 20 mA, in the State register of Ukraine,



**P419** – RS-485, in the State register of Ukraine,



- automatic network configuration,
- registration of operating time,
- registration of overtemperature, overpressure, overvoltage;
- remote calibration.

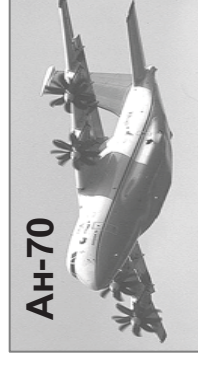


# Pressure measurement systems

**СИД-4Б** – 4 pressure channels, stand of Antonov An-70,



СИД-4Б



АН-70

**СИД-4А** – 4 pressure channels, stand of gas turbine engine testing

**СИД-3** – 2 pressure channels, surge detection, Tupolev Tu-334



СИД-3, 3-148



Ту-334

**СИД-3-148** – 2 pressure channels, surge detection Antonov An-148

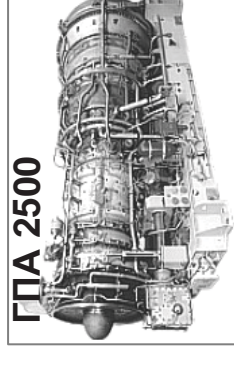


АН-148

**П330** – monitoring of the pulsating combustion on base of g-independent (acceleration compensation up to 5000 g) high-temperature (500 degrees centigrade) sensor Kulite



П330



ГПА 2500

# Control system (FADEC) РДЦ - 450

РДЦ -450, 450М



АИ 450, АИ-450М



Ка-226

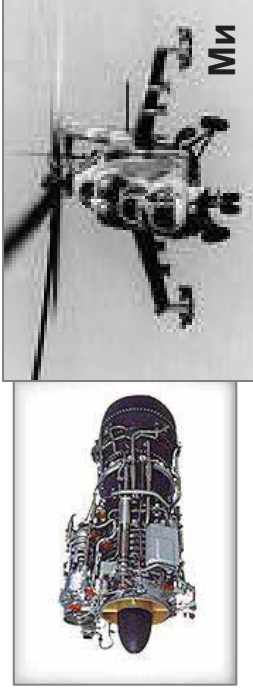
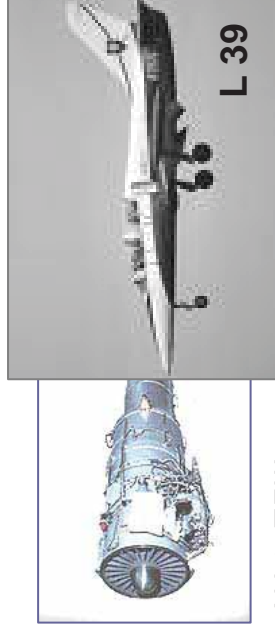
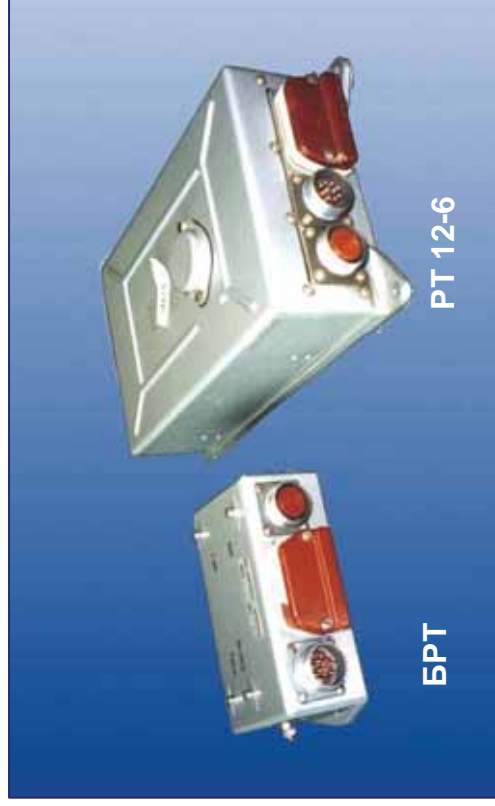


Ми-2М

- control - 2 channels ,
- overspeed – 2 channels,
- vibromonitoring – 1 channel,
- automatic fault compensation and reconfiguration,
- parameters - 12 channels,
- input discrete signals - 22 channels,
- input discrete signals - 23 channels,
- data communication with head unit.



# Regulator-limiter of engine exhausting gas temperature БРТ



# Program-technical complexes for engine testing

- Klimov/Motor Sich VK-1500,
- Ivchenko-Progress/Motor Sich:
  - AI-450 (Kamov Ka-226),
  - AI-450 MS (Antonov An-148),
  - AI-222 (Yakovlev Yak-130);
  - D-436-148 (Antonov An-148);
  - TV3-117-SBM (An-140).

АССОД / ВК 1500



ПТК-436-148 / Д 436-148



ПТК-ВДМР / АИ-450 МС



Channel type	Number of channels									
	АССОД -ВК	ПТК ДМР	ПТК- ДСТ	ПТК- ВДМР	АРПП	ПТК 436	ПТК 436/36	ПТК 450/500		
Measurement	96	96	115	98	168	83	123	52		
Indirect measurement	17	24	21	42	30	14	25	В стадии согласо- вания		
Discrete - input - output	216	192	176	192	16	224	240	38		
	48	24	48	18	-	32	34	-		

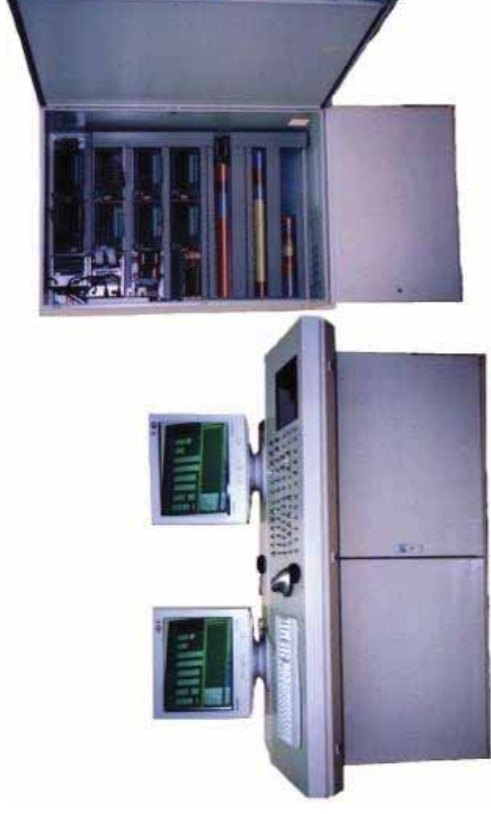


# Main modifications

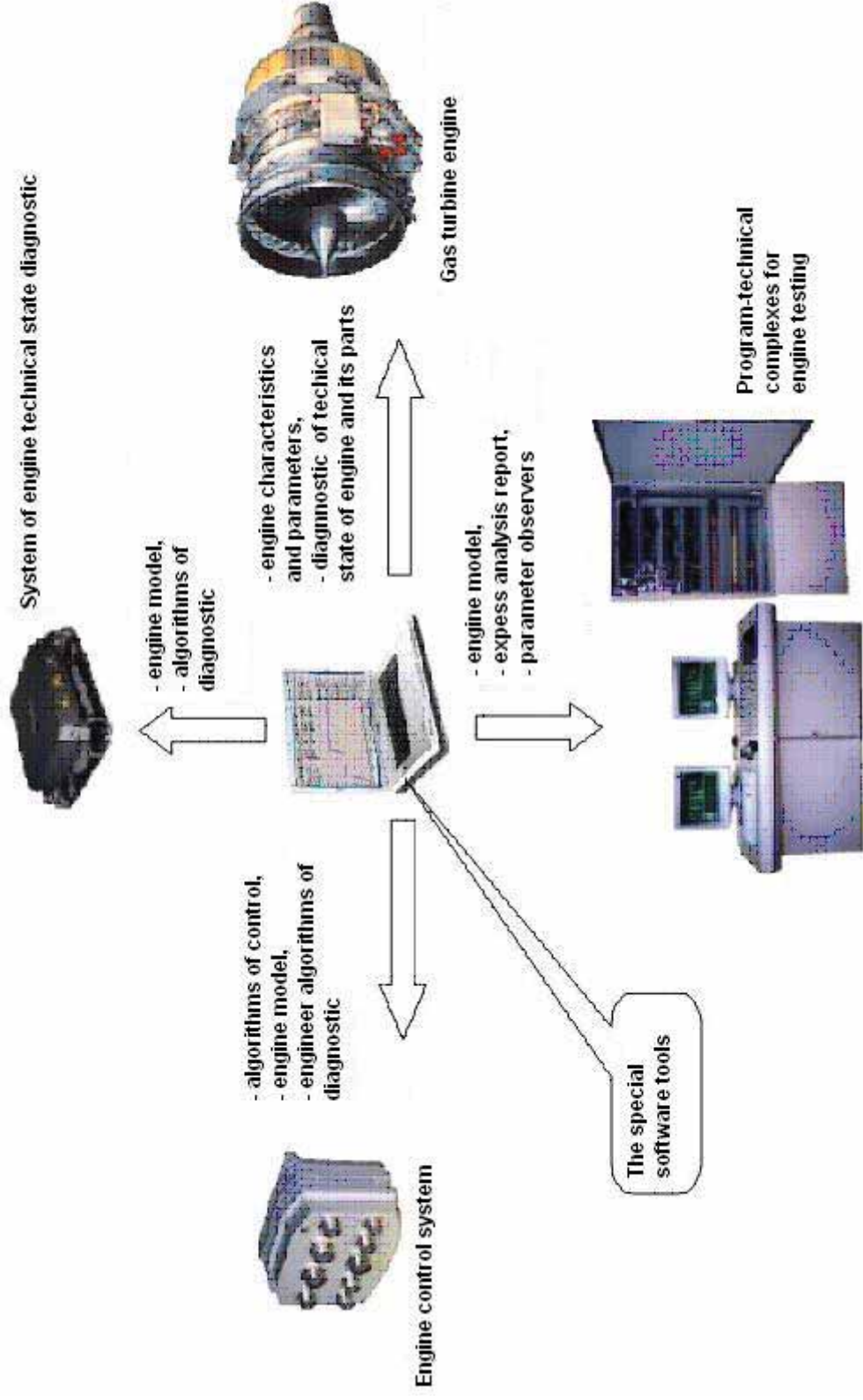
Mobile complexes



Stationary complexes



# HW & SW complex «Energy-XXI»



HW & SW complex of modeling, controlling and diagnostic of technical state of gas turbine engine based power sets

ИЗДЕЛИЯ СПЕЦИАЛЬНОГО НАЗНАЧЕНИЯ



L-39

BRT



Mi-2

РДЦ-450М



СПВ-290

Комплекс С300



П-317

Комплекс Б44 "Улыбка"

ЛИЦЕНЗИЯ МИНИСТЕРСТВА  
ПРОМЫШЛЕННОЙ ПОЛИТИКИ  
УКРАИНЫ НА РАЗРАБОТКУ,  
ИЗГОТОВЛЕНИЕ, РЕАЛИЗАЦИЮ,  
РЕМОНТ И МОДЕРНИЗАЦИЮ  
ВОЕННОЙ ТЕХНИКИ

Серия АВ №327265 от 10.12.2007г.

ОАО "ЭЛЕМЕНТ" ВХОДИТ В ПЕРЕЧЕНЬ  
ПРЕДПРИЯТИЙ ОПК

Постановление Кабинета Министров Украины  
№244-р от 26.04.2007г.



An-70

SMD-4B



Ka-226

РДЦ-450



"СИПА"

T-84



"РИГА-МАНІК"

Комплекс лазерной  
подсветки целей



Топоженье-2АМК

Комплекс  
звукометрической разведки