



TRADESNABEXPORT

AUTOMATED DIAGNOSTIC COMPLEX OF X-RAY FLUORESCENT ANALYSIS OF OILS

ADC PRIZMA-M.



ADC PRIZMA-M is a stationary complex for measuring the mass fraction of chemical elements in:

working oils and liquids of drinking, natural and waste waters, soils, air of the working area and in gas—dust flows after deposition on the filter of metals and alloys in accordance with certified (standardized) measurement methods (when used in the field of state regulation to ensure the uniformity of measurements).

ADC PRIZMA-M is equipped with a rotation device with the ability to adjust the speed for analyzing the entire surface of the test sample.

The range of atomic numbers of the chemical elements to be determined is from Na to Am



Purpose

the content of chemical elements in working oils and liquids after deposition on the filter

determination of the elemental composition of wear products

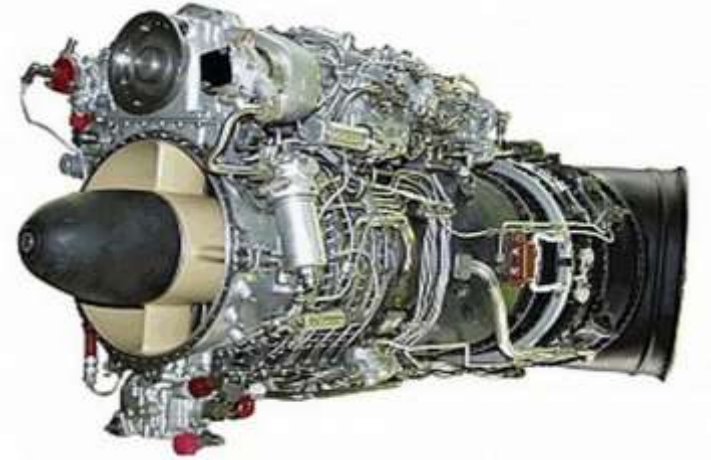
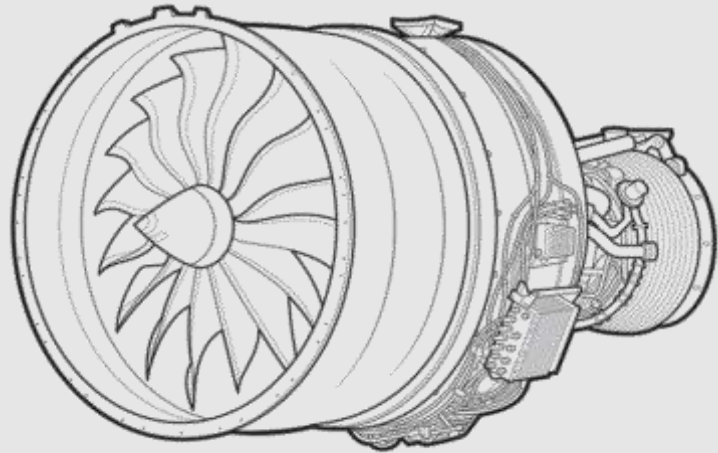
Tasks

determining the location of the defect in the system

determination of the technical condition of engine parts and GTU parts washed with oil

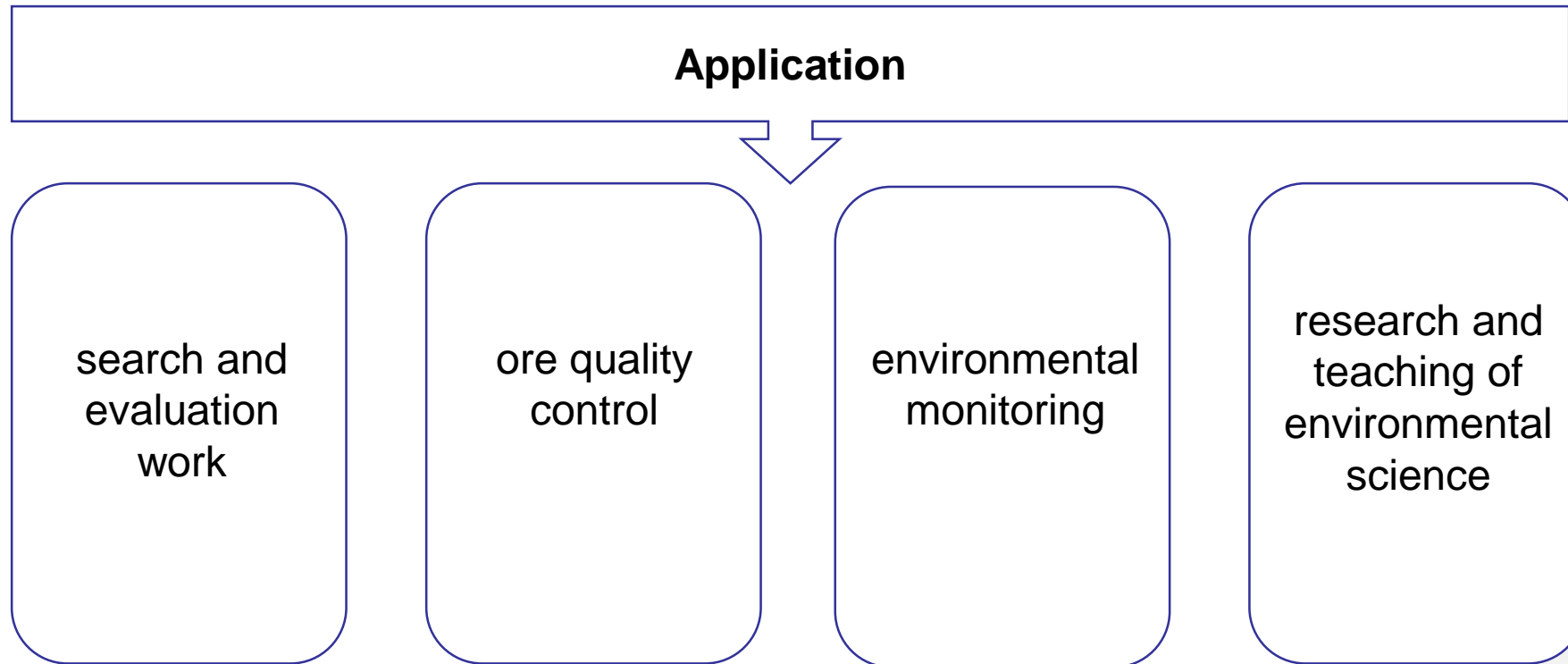
predicting the development of malfunctions



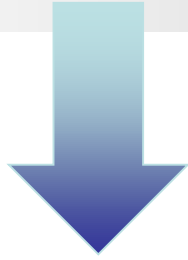


Geology and mineral exploration, ore quality control

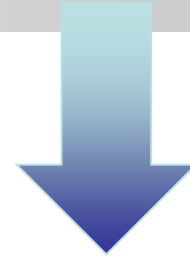
Performs rapid elemental analysis directly at the site of geochemical studies, providing efficiency and flexibility throughout the entire cycle of mineral resource analysis.



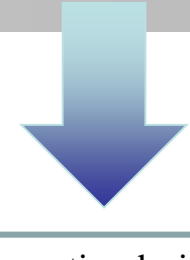
SCOPE OF APPLICATION



mechanical engineering



aviation industry



technical diagnostics during operation of all types of engines



Specifications

Characteristic	АДК Призма-М
The range of atomic numbers of the chemical elements to be determined	from NA to Am
Number of chemical elements to be determined	80
Detectable chemical elements	Na, Mg, Al, Si, P, S, Cl, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Cs, Ba, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Po, At, Ac, Fr, Ra, Ac, Th, Pa, U, Np, Pu, Am
Measurement range of the mass fraction of elements in METALS AND ALLOYS	from 0.001 to 100%
Measurement range of the mass fraction of elements DEPOSITED ON FILTERS	from 0.1 to 11,000 million-1
Limits of the permissible relative measurement error of the mass fraction of elements	from 0.1 to 20%, depending on the concentration
Characteristic	ADK Prisma-M
The time of setting the operating mode	no more than 5 minutes
Measurement time	from 5 to 240 s
Weight	not more than 5 kg
Operating temperature range	from +5 to +45
Overall dimensions (LxWxH)	not more than 120 × 250 × 350mm
Assigned service life	5 years old