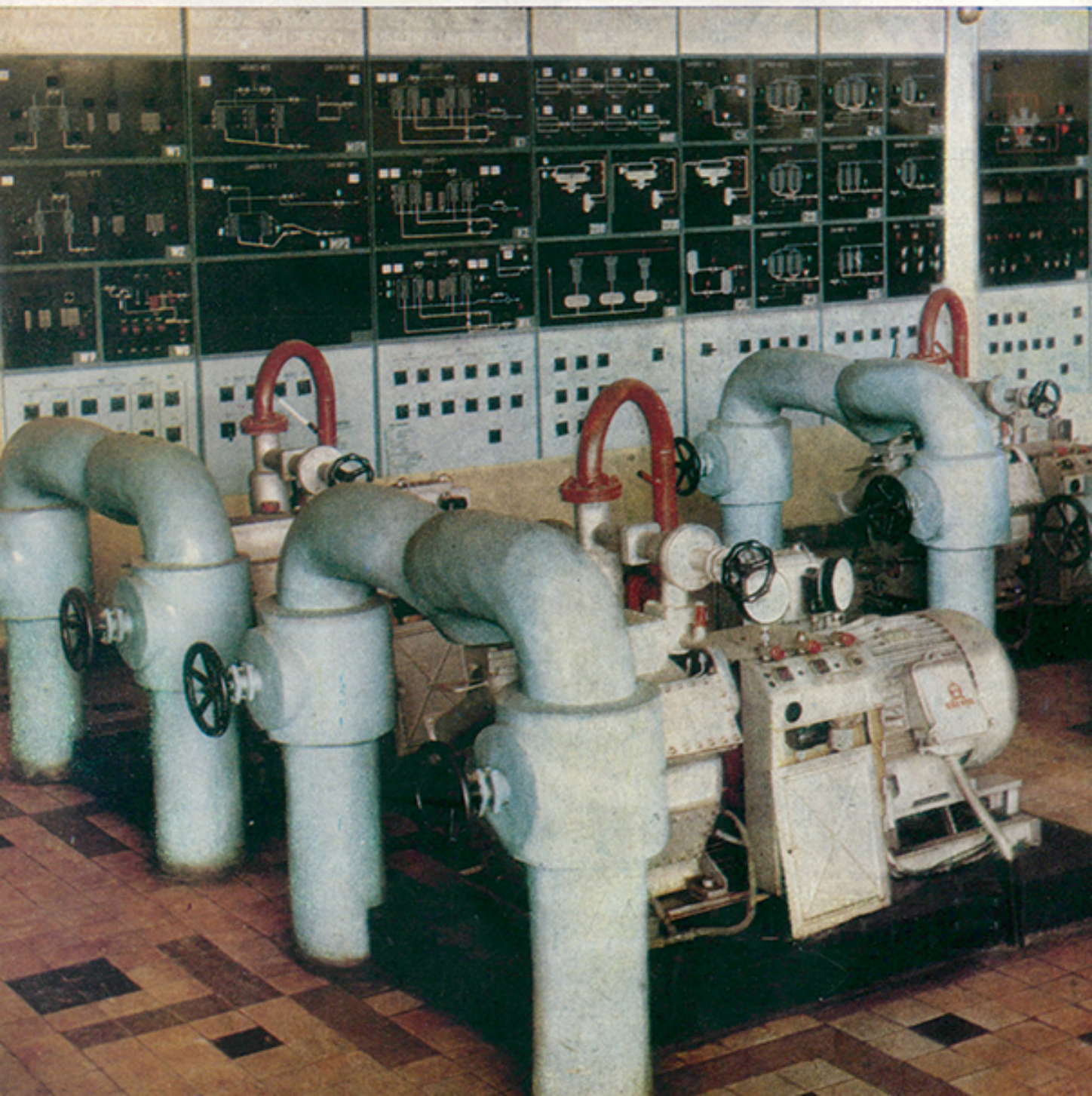




# POLISH TECHNICAL REVIEW



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### Agricultural aircraft

The new Polish agricultural aircraft — the PZL-106 KRUK — is a low-wing monoplane of all-metal construction, with a fixed undercarriage. It has a piston-engine and it has been equipped with installations for the application of all the types of chemical agents presently used in agriculture, namely: solutions, emulsions, granulates and powders. The aircraft is also adapted for the transport of agricultural equipment. KRUK is distinguished by easy manoeuvrability, safe flying at low speeds and modern solutions guaranteeing safety to the pilot. The useful speed of the aircraft is 120... 160 km/h, take-off run and landing run— 200 m respectively and range — 450 km. The chemical payload amounts to 1000 kg and the chemical tank capacity — 1400 l.

### Prefabricated cold stores

In recent years Poland's refrigeration industry has been specializing in the construction of one-storeyed, prefabricated cold stores. They are built of light-weight steel structures and prefabricated modular insulating panels. The stores are protected from the outside with sheet metal. Two cold stores of this type are now being erected by Polish specialists in Czechoslovakia and G.D.R. The overall net refrigerated volume amounts to 45,000...55,000 cu. m., the storage capacity 10,000...15,000 t. The daily freezing capacity ranges from 60 to 100 t. The tunnel air temperature is  $-35^{\circ}\text{C}$  and the freezing-room air temperature:  $-27^{\circ}$  to  $-30^{\circ}\text{C}$ .

### Aluminium dip plating

The batch aluminium dip plating method developed at the Institute of Materials Engineering in Katowice involves dipping unit articles after they have been superficially treated and preheated in a bath of aluminium or its alloys at a temperature of  $600^{\circ}$ – $90^{\circ}\text{C}$ . As a result, a two-layer diffusion aluminium coat is formed on the articles which increases the anti-corrosive properties of steel and iron products.

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Cover photo: View of a section of the machine room in a cold store plant

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