



Aerospace Company

**WE DESIGN &  
PRODUCE DRONES**

PINK  
RESEARCH &  
DEVELOPMENT  
CENTER

PR-DC

PR-DC.COM



**Company  
Profile 2024**



## PR-DC Company Profile

Privately held military-licensed aerospace company **PINK RESEARCH & DEVELOPMENT CENTER (PR-DC)** is based near **Belgrade, Serbia**, and has an office in **Washington, D.C., USA**. It features complete in-house research & development and covers everything from design and verification to finished product production. The company is dedicated to **producing state-of-the-art drones and equipment** in compliance with applicable **military standards**, using the most advanced composite materials, latest electronics, and propulsion systems.



Figure 1 - PR-DC Factory

From electric motors, propellers, all kinds of software, autopilots, and electronic systems to carbon-fiber-based structures, everything is designed and produced by **PR-DC**. This means that products are made in **Europe**.

Table 1 - Basic company information.

Full name	PINK RESEARCH & DEVELOPMENT CENTER
Short name	PR-DC
HQ Address	Novo Naselje BB, 22310 Šimanovci, Republic of Serbia
USA Office Address	600 Massachusetts Ave NW, Washington, DC 20001, USA
E-mail	info@pr-dc.com
Website	pr-dc.com
Responsible person	Tijana Petrašinović Mileta
Phone number	+381 67/72-57-608

They are **reliable, easy to maintain, simple to use, and ready to operate in some of the most demanding environments**. Using the latest achievements in aerospace engineering, programming, electronics, and materials science, it is possible to develop better aircraft for a **fraction of the cost of market-leading aircraft** made in accordance with military standards.

The main products are electric rotary-wing drones with a maximum payload capacity ranging from 1 kg up to 250 kilograms (**IKA drone lineup**). These drones have **market unique capabilities**. They are primarily designed for close-range missions and missions needing hovering, larger payload mass, vertical take-off, and landing (**IKA-BOMBER**). In this category are also rotary-wing target/decoy drones, which can work together with the IKA drone lineup (**GANNET**). The second product category is mixed-wing drones (fixed-wing drones capable of vertical take-off and landing) for missions demanding greater speed and longer range. They feature electric propulsors or small jet engines. These drones are tested with many different payloads, including very sophisticated sensors, in different environments and at altitudes of more than 6000 m. The last product category includes different loitering munition - kamikaze drones (**ODONAT, SHRAPNEL**).



Figure 2 - IKA-BOMBER



The next goal is the **development of strategic fixed-wing drones** to complete the product offering. Also, equally important active projects are **counter-drone systems**. As a company working on drone technology development, it is obligated to develop systems that prevent their misuse.

Power sources for drones are modular Lithium-Polymer (LiPo) or Lithium-Ion (Li-ion) batteries (imported mainly from Japan or Europe-based manufacturers). Battery monitoring and control systems allow easy replacement and use of battery cells made by different manufacturers, **preventing proprietary lock-in**. One of the company's main goals is to **maintain the supply chain in any situation**. There is no universal solution for power sources. PR-DC uses everything from electric and hybrid solutions to gasoline and solid fuel with appropriate propulsors.



Figure 3 - Custom flight control applicaiton

The company provides **after-sales services, monitoring, maintenance, support, and training**. Besides that, the company guarantees that it has all the necessary **spare parts for drones in stock**. The company also provides a **cooperation and integration engineering team**, which is often necessary for the research and design of payloads for special missions, and additional IT systems for monitoring, mission planning, and control.



Figure 4 - Factory equipment



Drones are highly customizable. It is easy to add new payloads, including additional sensors and actuators that communicate with the flight computer and can transmit additional data within the already integrated data transmission system. Mechanically attaching a new payload often requests just making a simple adapter for the rail system without modifying the drone structure.

Other advanced systems designed and produced by PR-DC are **aerial bomb dropping mechanism, drone release mechanism for drone carrier, stabilization and aiming platform** with six degrees of freedom (parallel robot, based on rotary Stewart platform), remote motion-in-the-loop piloting system for real-time piloting or **pilot training, release and launching mechanisms** including omnidirectional **rovers deployable from a drone**.



Figure 5 - Drone carrier with FW-KAM-81 drone

Behind each solution embedded into any final product, behind every idea and even the smallest detail, behind every single decision, proudly stands the **team of people**, the backbone and **the most valuable asset of the company**. Engineers are mostly from the Department of Aerospace Engineering, Faculty of Mechanical Engineering, University of Belgrade, where everything started 90 years ago and the company is very proud of its long aerospace history.