UAV OF SMALL AND MIDDLE CLASS

At present, the Company's specialists are developing two unmanned aerial vehicles (UAV) of small and middle class using the design scheme of the ring wing (coleopter).

The uniqueness of the non–mechanized closed type wing (ring wing) is that it is almost devoid of the tip vortex effect, which significantly worsens the aerodynamics of the aircraft. In addition, due to its geometry, the ring wing has a total structural strength and provides the aircraft with high resistance to side wind gusts.

It is assumed that the developed UAVs due to the excellent aerodynamic characteristics and the use of a hybrid engine unit will be highly effective by criterion payload/take – off weight..

TECHNICAL SPECIFICATIONS	
Take–off weight, kg	500
Payload weight, kg	270
Wing span, m	7.5
Take–off and landing speed, km/h	80–90
Cruising speed, km/h	130
Max speed, km/h	160
Maximum altitude, m	up to 4 000
Engine type	Hybrid