



AK 1-3

designed around a three blade rotor system

The AK 1-3 is a two-seater, ultralight helicopter, designed for fast, comfortable and safe travel. Technical specifications and operational parameters of the helicopter meet or exceed competitive aircrafts from world industry leaders.

AIRCRAFT PERFORMANCE

MODELS OF HELICOPTERS

Basic:

AK1-3

R22 Beta II

Schweizer 300C

Manufacturing company		Poland	USA	USA
Manufacturer		Flyargo Rotorcraft Center	Robinson Helicopter Company	Schweizer Aircraft Corporations
Crew + passengers	number	1+1	1+1	1+2
Dimensions:				
Fuselage length	m	5.806	6.58	6.76
Fuselage with rotors length	m	8.096	8.76	9.40
Max. cabin width at the shoulders level	m	1.35	1.12	1.30
Helicopter height	m	2.27	2.72	2.65
Lifting propeller diameter	m	6.84	7.68	8.18
Disc area	m ²	36.74	46.21	52.49
Anti-torque rotor diameter	m	1.28	1.00	1.30
Main wheel track	m	1.65	2.00	1.99
Engine:				
Type and model		SUBARU EJ25	Textron Lycoming O-360	Textron Lycoming HO-360-DIA
Fuel type		A 95	L 100	L 100
Power takeoff	kW/hp	115/156	93/124	142/190
Standard fuel capacity	L	72	72.6	82
Fuel flow rate	l/h	24-35	30-38	35-45
Weight data:				
Gross weight	kg	650	621.5	930
Empty helicopter weight	kg	398	391.5	499
Disposable load	kg	252	230	431
Performance:				
Maximum speed	km/h	186	189	176
Course speed	km/h	160	177	159
Maximum rate-of-climb	m/s	8.5	5	7
Dynamic ceiling	m	3000	3000	3000
Hover ceiling (without ground effect)	m	1300	1350	1700
Maximum flying range	km	350	320	354
Maximum endurance	h	2.6	2.2	3.3
Minimum vertical sink rate upon planning in autorotation regime	m/s	8.4	8	9