dalas 2011 Worldwide UAV Roundup AROSPA

B-L Bungee-Launched

BLOS Beyond Line-of-Sight

BWB Blended Wing Body

CAS Civil Air Surveillance

Border Patrol

BAMS Broad-Area Maritime Surveilance

Battle Damage Assessment

CICADA Close-In Covert Autonomous Disposable Aircraft

BCTM-2 Brigade Combat Team Modernization (BCTM) Increment 2 FCS Future Combat System

G-L Ground Launched

gMAV Gasoline Micro Air Vehicle

HALE High Altitude/Long Endurance

GAS Gasoline Engine

HF Heavy Fuel

H-L Hand-Launched

Littoral Combat Ship

Low-Rate Initial Production

MALE Medium Altitude/Long Endurance

MAGIC Medium Altitude Global ISR and Communications

MALE-EP Medium Altitude/Long Endurance/Extreme Persistence S Stealth

Loss of Signal

Long Range

LTA Lighter Than Air

R-L Rail-Launched

RATO Rocket Assisted Take-Off

Positive Identification

Radio Frequency

R/S Reconnaissance/Surveillance

RSTA Reconnaissance/Surveillance/Target Acquisition

RTA-A Reconnaissance/Target Acquisition-Attack

STAR Surveillance/Target Acquisition/Reconnaissance V-LOS Visual Line of Site

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Country  ABU DHABI	Prime  ADCOM Military Industries	Pesignation  Yabhon RX-6 Yabhon RX-18	Development Completed (?) Under way	Production In production	<b>Operation</b> Deployed	Piston pusher prop Jet	1,100 1,250	Payload Wt., kg	<b>Wing Span, m</b> 6  18	Endurance, h	Range, km	<b>Ceiling, m</b> 14,500	R/S Predator-class MALE
	(ADCOM uses the Yabhon name for a wide range of UAVs with little else in common)	Yabhon HMD Yabhon HM Yabhon-H Yabhon-R	Completed Completed Completed Completed	In production In production In production In production In production	Deployed Deployed Deployed Deployed Deployed	Twin turbo Turbine Piston pusher prop	0.5	30 50	3.28 5.7 6.56	1.2 8 30			High-speed target drone  Reconnaissance Reconnaissance MALE R/S; SAR; monitoring
ARGENTINA	Argentine Air Force	SAT-400 Smart Eye Proyecto UAV Etapa 1 Proyecto UAV Etapa 2 Proyecto UAV Etapa 3	Completed Under way Under way	In production	Deployed	Pusher prop	300	50	2.75	2 8 15 3 months			Target drone HALE - Predator-class HALE
AUCTRALIA	Argentine Army Argentine Navy Nostromo Defensa	Lipan M3 Guardian Cabure III Yarará Yagua	Under way Under way Completed Under way Status unknown	Limited No longer on website	Deployed Deployed	Electric Piston Piston/electric pusher prop	60 80 3.5 30 12	20 30 7 2	1.7 3.98 2.7	1.2 6 16 piston/1.5 elec		2,000 3,000	RSTA - BDA R/S - BP Originally planned as TUAV for special ops
AUSTRALIA	Aerosonde (division of AAI)  BAE Systems  (w/Univ. of Sydney)  Codarra Advanced Systems	Aerosonde SUAS Kingfisher Kingfisher Mk2 Kalkura Brumby Mk3 Avatar P2	Completed Completed Completed Completed Completed Completed Completed	In production Research prototype Full production Full production Full production	Deployed Deployed Deployed Deployed	GAS pusher prop Piston pusher prop Pusher prop Turbojet  Electric prop - H-L	15 60 115 662 45 5.5	5.4 15 30 7	2.9 4.13 4.23 3.02 2.82 2.55	30 4.5 15 2 2	1,609 50	6,096 12,192 305	ISR; jamming  Demonstrator  Demonstrator  Target drone  Demonstrator  R/S - monitoring
	CSIRO Silvertone UAV Vision	RUA VTOL Flamingo Mk 2 (single boom) G18 Aeolus T21	Completed Under way  Completed Completed	ruii production	Testing Deployed	Gas rotor Pusher prop  Gas rotor Microjet turbine	20	5 10	Rotor diam. 1.8  Rotor diam. 1.8  Rotor diam. 2.1	7 3 1.5	100	303	Test and demonstration UAV training  Monitoring Monitoring
AUSTRIA BELGIUM BRAZIL BELARUS CANADA	Schiebel Flying-Cam Aeroeletrônica Ltd Elbit subsidiary Kvand Ventures Aeryon Labs	CAMCOPTER S-100 Flying-Cam III E-SARAH Hermes 450 Husky Scout VTOL MAV	Completed Completed Completed Completed Completed Completed	In production (?)  Limited	Worldwide Deployed Limited	50 HP rotary engine Electric rotor Piston pusher prop Twin turbojet rotor Electric - 4 rotor	110 25 450 90 1.7	50 150 42 250 g	Main rotor diam. 3.4  10.5  Rotor diam. 3.2  80 cm diam.	6 or 10+  20 1.2 20 min	80 or 180 120 LOS 60 3	5,486 1,800 333	R/S, BDA S/SAR helicopter R/S - SAR
	Draganfly Innovations  MMIST	Draganflyer X4 Draganflyer X6 Draganflyer X8 SnowGoose CQ-10A SnowGoose CQ-10B VTOL	Completed Completed Completed Completed Under way	Since 2009 Since 2008 Begins 2011 Under way Limited	Deployed Deployed Testing Deployed Limited	Electric - MAV Electric - MAV Electric - MAV Turboprop parafoil or Rotor VTOL Turbo pusher prop/rotor	0.98 1.5 2.7	0.25 0.5 1 260.8 227	Rotor diam. 0.78 Rotor diam. 0.99 Rotor diam. 1.06	0.3 0.3 0.3 15 w/100 lb 24	SR < 1 SR < 1 SR < 1	10-200 200 200-300	ImiNT, IR, R/S, S&R, TUAV ImiNT, IR, R/S, S&R, TUAV ImiNT, IR, R/S, S&R, TUAV ISR, comm; cargo Near-VTOL - force protection; small unit resupply
CHILE	microPilot  IDETEC	CropCam MP-Trainer MP-Vision Sirol Stardust II	Completed Completed Completed Completed Completed		Limited	Battery - H-L Gas prop Battery - H-L Electric prop Electric prop	2.72 2.95 2.72	0.9 0.45 3	2.4 1.75 2.4 3.8 3.1	20 min 20 min 55 min 2-4 0.66	4	670	Ag/environmental monitor Trainer - testing Photo Demonstrator Agriculture; surveillance
CHINA*	RMS SA  ASN Technology Group	Javelin-X Mantarraya Petre II Trauco III ASN-211 MUAV ASN-213 morphing	Completed Completed Completed Completed In development Under way			Gas prop - CL  Battery - prop - CL  Turbine - JATO  Battery - prop - CL  Flapping wings  Folding wings	24 60 183.4 210 220 g	15 31 20	3.4 2.52 1.69 4.02	1 4 1 55 min	100 100 100	3,000 12,000 8,200 200	Aerial target  Reconnaissance; comms relay Aerial target Aerial target Low-altitude reconnaissance Unclear; morphing wing has been linked to fast attack
		ASN-229A ASN-106 ASN-9 (Ba-9) ASN-15 ASN-104/105	In development In development Completed Completed Completed		IOC 2011(?)  Deployed Deployed Deployed	Jet Prop Piston H-L Piston	800 170 6.5 140	100, plus sensors 20	2.82 3 4.3	20 1 1 1 2	2,000 10 60-100	10,000 1,625 10,400	Reconnaissance and precise attack High-speed target drone Ship-launched target drone ISR Tactical ISR
	Avic Defense	ASN-206 ASN-207 Whirlwind-Scout FK2000 Airship TL-8	Completed Under way Under way Under way	Under way	Limited	Piston Piston Ducted fan Twin turbofan	222 480 8 250	50 100 800	6 6	8 16 40 min 50	150 600 10 500	19,500 19,500 3,000 8,000	Advanced tactical R/S EW/EC; SIGINT; jamming Perch and stare R/S Target drone
	Beijing Black Buzzard Aviation  Beijing Wisewell	HFT-40A HFT-60A Joined-Wing UAV AW-4 Shark AW-12A	Under way Under way Under way Completed Completed			Microturbine Microturbine - R-L Pusher prop Pusher prop Piston	45 90			3	80 150		High speed/low endurance High speed/low endurance Unprepared airstrip operations  Portable reconnaissance
	BSST BUAA  Chengdu Aircraft Design & Res. Inst.	AW-2 Sun Ying WuZhen-5A/ChangHong 1 Haiou (Seagull) M-22 Pterodactyl Xianglong (Soar Dragon)	Completed Completed Under way Under way In development Under way		Deployed  Flight testing  Testing	Turbojet Twin contrarotating Single jet Turbofan or turbojet	10 1,700 50 1,100 7,500	70 200 600	32 14 25	1.3 3 1.5 20	2,500 400 7,000	57,400 5,000 17,830	Multirole; based on US AQM-34N Firebee VTOL  MALE hunter-killer HALE strategic reconnaissance
	China Aerospace Science & Technology	Tianchi Yilong WJ600 CH-802 SL-200	Under way Under way Under way Under way Under way	In production (?)	Testing Deployed (?)	Turbo Jet H-L	1,150 6.5 180	200	23	20	7,000	4,953 6,005	Similar to Global Hawk, but smaller  Hunter-killer  Alleged crop-duster/rain maker (but with stealth design)
		PW 2 Chang Hong-3 (CH-3) CH-4 SH-1 SH-3	Under way Under way Reportedly Under way Under way	Under way LRIP (?)	IOC 2011	RATO Pusher prop	209 640	30 60-100		8 12	200 200	15,000	RSTA RSTA - EW - Precise attack Next gen UCAV demonstrator Multimission Low-speed light UAV
	China Aviation Industry Co. Nanjing Research Institute for Simulation Techniques	TF-8 TF-10 AVIC I Sunshine W-30/50 S-45	Under way Under way Under way Completed Under way	Under way	Deployed	Piston pusher prop Gasoline engine	750 33	70 18/95	5-20 5.25	12 4-6 1	230 10-100	9,840	Man-portable Remote sensing  R/S - EW - comm relay Target drone, fighter jet styling
	NUAA	YK-7 Z-2 Z-3 IZ Soar Bird	Completed Completed Completed Under way Completed	Under way Under way Under way	Deployed	Piston  Autogyro  Rotary - piston	31 35 130 9 310	2.2 10 30	7 Rotor Rotor	0.6 1 4 1	3 100 90	9,800	Reusable aerial target RSTA RSTA Gyrocopter VTOL
	PLA Air Force	ChangKong-1 (A-B-C-E) ChangKong-2 J-5/J-7I Ground Attack UAV Ba-5 TianJian-1 Shen Zhou-1	Completed Completed Under way Under way Under way Completed	Under way Under way	Deployed Deployed Limited Deployed	Turbojet Turbojet Turbojet Jet Turbojet - RATO Piston (3)	3,340 2,500 9,100 13,200 lb 176 lb	1,100 lb 1,100 lb	24.5 ft 7.6 8.32 31.2 ft 5 ft	0.75 0.5	850 936 mi 30 mi 1.86	16,250 59,000 61,700 9,600 13,000 6,500	Target drone, air sampling, photo Little known; developed late 1990s Converted Chinese MiG-17 and -21; "suicide UAV" (cruise) Based on J-5; Target drone; "cruise" Cruise missile Target drone Remotely piloted zeppelin; video
	Shenyang with AVIC	Shen Zhou-1 Shen Zhou-2 Combat Eagle Anjian (Dark Sword) Hidden Sword Long-Haul Eagle	Completed Completed Under way Under way Under way		IOC 2018 (?) IOC 2018 (?)	Turbofan (supersonic?)	53				1.50	6,500	UCAV concept UCAV ISTAR - C4KISR
	w/Russia  Survey & Mapping Inst. of Sci. & Tech.	Supernal Hawk Warrior Eagle Wing Loong Airship UAVRS II	Under way Under way Under way	Under way	Testing Limited (?)	Piston Airship	1,150 40	200 10	3.8 diam. 3.5-m biplane	20 2 2	20 20	16,250 1,950 13,000	HALE antistealth (aerial bistatic radar warning system) SEAD/DEAD - recon Reconnaissance Aerial photography; mapping; surveying Aerial photography; mapping; surveying
	Weifan Freesky Aviation Industry	Dufeng II Sh-1 Tianyi V750 VTOL ServoHeli 120	Under way Under way Under way Under way			Electric  Pusher prop  Rotor  Rotor	757 40	80	Rotor diam. 7.24	1 4 1.5		3,000	TUAV Long range Coastal patrol
COLOMBIA	Zhuhai X.Y. Aviation  Efigenia Aerospace Robotics  RH-ALAN	Blue Arrow (UR-J1-001) Sky Eyes (UR-C2-008) EJ-1B Mozart S/VTOL EJ-2A Fatima BL-50 BLS B	In development In development Completed Under way Completed Completed	Test vehicle Test vehicle Completed Completed	Flight testing Flight testing  Deployed Deployed	Prop Piston Piston Piston	200 40 8	13.2 14.5	13.1 13.1	1 5 3	72 30	610 5,000 5,000	R/S R/S S/VTOL test platform Long endurance Reconnaissance/surveillance
CZECH REPUBLIC FINLAND FRANCE	So VTÚL STV Patria Aviation Oy Alcore	B4-MR Sojka III MASS MAV Azimut 2 Chacal 2	Under way Completed Completed Completed Completed Completed	Under way Under way	Deployed  Limited	Electric Piston pusher prop Electric pusher prop Electric pusher prop Pusher prop or turbojet	220 145 3.5 9 75	50 25 0.5 2 20	19.5 4.12 1.5 2.9 2.6	12 2 1 2 4	120 100 20 10 50	2,000 150 300 3,000	RSTA Reconnaissance; surveillance Reconnaissance/surveillance; monitoring Surveillance RSTA; missile simulation
		Biodrone EasyCopter Epsilon 1 Epsilon 2 Futura	Under way Under way Under way Under way Under way	Under way		Electric pusher prop Electric rotor High air pressure piston; H-L High air pressure piston mini-turbo - C-L	9 1.6 0.45 0.125 70	3 0.1 10	3.4 Rotor diam. 0.65 0.5 0.25 2	2 15 min 10 min 10 min 1	20 1 1 1 50	300 30 30 300	Surveillance Civil aerial video/digital photo R/S prototype R/S MAV prototype RSTA drone or UCAV
	Bertin Technologies  Dassault with EADS, Alenia, SAAB, HAL, EADS-Spain, RUAG	Maya Automatic Fixed Wing MAV HoverEye nEUROn	Under way Under way Under way Under way	Under way	First flight 2012	Electric tail-sitter Electric prop - H-L Ducted rotor Turbine	2.5 4.8 4 6,000	0.5 300 g	0.32 2 0.7 diam. 12.5	30 min 50 min 20 min 3	11 2 1,931	50 100 4,738	Mini-VTOL, urban surveillance  Day/night security  UCAV demonstrator
	Infotron Sagem	Talarion Harfang (Eagle I) Drone IT 180-5 EL Drone IT 180-5 TH Patroller R/M Sperwer Mk II	Under way Completed Under way Under way Completed Completed	Limited  Under way Under way	First flight 2013 Deployed  Deployed Deployed Deployed	Twin jet Rotax turbo Electric rotor Piston rotor ROTAX 914 F - prop CL - pusher prop	7,000 1,250 19 19 1,050 330	800 250 5 5 250	28 16.6 Rotor diam. 1.8 Rotor diam. 1.8 18 4.2	20 24 2 2 30 6+	1,000 10 10 200 LOS/2,000 sat. 200	15,240 7,620 3,000 3,000 7,620 4,572	MALE ISTAR MALE - RSTA-BDA R/S - SAR; environmental monitoring R/S - SAR; environmental monitoring MALE ISR ISTAR - EW
	SURVEY-Copter	WeControl Copter 1B VTOL WeControl Copter 4 VTOL SURVEY-Copter/ WeControl BLIMP 2C BLIMP 37M	Completed Completed Completed Completed Under way	Since 2001 Since 2001 Since 2001	Deployed Deployed Deployed Deployed	GAS rotor GAS rotor Electric engine Tethered Motorized propulsion	15 25 9.5	5 10 1.1 0.9	1.8 2.2 3 1.2 diam. 3 diam.	0.75 1 2 1	5 8 40	1,500 1,500 2,500 150 150	BDA,E/O,EOD,G-L,IR,LALE,LOS,MM/MR,MR,R/S,S&R, VLO BDA,E/O,EOD,G-L,IR,LALE,LOS,LR,MALE,MM/MR,R/S,S&R,VLO BDA,E/O,G-L,HALE,IR,LALE,LOS,LR,MALE,MR,R/S,S&R,VLO Aerial photo; surveillance Aerial photo; surveillance
GERMANY	Diehl BGT Defence EADS w/Northrop Grumman	SensoCopter Agile UAV-NCE EuroHawk Advanced UAV Barracuda	Under way Under way Under way Under way Under way	Under way	Demo to 2013 IOC 2013-14	Electric R-R Allison 31.8 kN Jet	0.9 14,640 5,500 >3 t	0.15 1,360 680	Rotor diam. 4 39.9 25.25 7	<1 30 20	3 25,000	1,625 65,000 ft 46,000 ft	Short-range reconnaissance/surveillance Agile UAV within network-centric environments Global Hawk-based SIGINT/ELINT/CO miNT Wide area reconnaissance/surveillance Technology demonstrator for agile
		Sharc Atlante Do-MAV DT25 DT35	Under way Under way Under way Under way	Limited  Under way  Under way	IOC 2009	Coaxial rotor-wing  Electric Twin jet - C-L Twin jet - C-L	1 315 110	60	1.3 8.3 12	4 0.5 14 1	1	25,000 ft 25,000 ft	Short-range VTOL; SEAMOS derivative Long endurance ISTAR/BDA Reconnaissance Subsonic target drone Target drone
		DT45 DT55 DT25-55 CL-289 SIDM Carapas	Completed Under way  Completed Under way Under way	Under way Under way Under way Completed	Deployed  Deployed  Deployed  Testing	Twin jet Jet - C-L Turbojet - rocket boost Rotax 914 Microturbo	48 240 1,250 1,650	30 250+	2 1.32 16.6 7.5	30 0.9	30 n.mi 1,700 n.mi	25,000 ft 9,750 ft 32,000 ft 40,000 ft	Target drone Simulates airborne antiradar and cruise missiles Carrier (DT25)/target (DT55) drone combo RSTA/BDA MALE all-weather ISTAR; based on IAI Eagle-1 ELINT
		Carapas ORKA 1200 Scorpio 6/Scorpio 30 Surveyor 600 DRAC/Tracker miKADO	Under way Under way Under way Under way Completed Under way	Under way	Deployed Deployed	Piston Rotor Electric Microturbo Electric - H-L Electric	1,650 682 13/38 450 7.5 500 q	180 6 65 1.8	7.5 Rotor diam. 7.2 Rotor diam. 1.85/2.2 2.3 3.6 0.16	0.9 8 4.5 2 0.75+	185 6 150 10 0.6	12,000 ft 12,000 ft 6,500 ft 32,800 ft 6,500 ft	MR VTOL - R/S VTOL MAV - R/S High-speed multimission TUAV MAV glider; tactical ISTAR Urban R/S
	EMT	X-13 Aladin Fancopter LUNA Museco	Under way Completed Completed Completed Under way	Limited Completed Completed Completed Limited	Limited Deployed Deployed Deployed Limited	Piston Electric - H-L - B-L Electric Pusher prop - C-L Turbo rotor	150 4 1.5 40 100	30 0.2 0.3 5 25	5 1.46 Rotor diam. 60 cm 417 cm Rotor diam. 3	6 1 25 min 5 3	200 15 1 100 100	19,500 ft 13,500 ft 9,750 ft 16,500 ft 13,000 ft	RSTA Surveillance R/S - urban and inside buildings Mini-UAV glider; tactical recon; targeting Reconnaissance in controlled airspace
	Microdrones GmbH  Rheinmetall Defence Electronics	MD4-200 MD4-1000 Carolo P50 Carolo P70 Carolo T140	Under way Under way Under way Completed Under way	Under way Under way		Electric 4-rotor VTOL Electric 4-rotor VTOL Electric prop - H-L Electric Electric - Twin prop	5.1 0.58 0.55 1.85	200 g 1.2 50 g 100 g 0.3	Rotor diam. 1.2  0.49 m 2.25 1.4	0.33 0.25 20 min 0.5	1 0.6 0.6	325	Reconnaissance/surveillance  Civil surveillance  Civil surveillance  Civil surveillance
	Sabath UAV Services	KZO (Brevel) (Tucan) Fledermaus ESM Mücke Opale TARES X-Sight	Under way Under way Under way Under way Under way Under way	Under way Under way Under way	Deployed	Pusher prop - rocket booster Pusher prop - rocket booster Pusher prop - rocket booster Prop - twin Piston pusher prop RATO Piston	356 lb 356 lb 356 lb 3,750 160	77 lb 970 50 6	3.42 3.42 3.42 7.35 2.65	3.5 3.5 3.5 12 4	100 200 45	11,375 ft 11,375 ft 11,375 ft 18,000 ft 13,000 ft 9,843 ft	Recon - ES m - EC m - NBC detection EW - KZO derivative EW - KZO derivative R/S - Border patrol; agriculture Attack (Taifun successor) Surveillance
GREECE	Scale Copter Stemme UMS  EADS 3 Sigma	CamClone MKI  515B  510-VTX  Nearchos  Alkyon	Under way Under way Under way Under way Completed	Under way Under way Under way	Deployed  Deployed  Deployed	Jet Turbo rotax 914F Piston or turbine	41.6 1,050 850 110 C-L; 190 Tri 36.3	10 100-170 51-92 1	Rotor diam. 2.48  18 23 5.1 2.06	1.1 9-40 20 12 1.5	20-100k (w/relay) <3,500 n.mi 697-929 n.mi	11,811 ft 30,000 ft 30,000 ft 7,000 3,048	Minefield detection; target designation Payload, range and endurance vary by fuel load Multimission motor glider RSTA - BDA - comm; tricycle takeoff Aerial target
HUNGARY INDIA	Bonn Hungary ADE	Iris Jet Iris prop Perseas Single Jet Perseas Twin jet BXAP13 AURA (Research Aircraft)	Completed Completed Completed Completed Completed Under way	Under way Under way Under way Under way	Deployed Deployed Deployed Deployed	Jet - B-L Piston pusher prop Jet Jet (2) Electric pusher prop	158.8 102 89.8 7.5	79.4 45.4 15 3	2.81 2.9 2.21 2.21 3.15	1 2 1 1	144 144	12,192 4,785 4,481 5,974 1,000	Aerial target Aerial target Aerial target Aerial target Aerial target Reconnaissance; monitoring High speed recon UAV w/weapon firing capability
	Bharat Electronics Ltd Defence Research & Development Org.	Rustom-1 Rustom-1 Rustom-H Lakshya Mk-II Lakshya	In development In development Completed In development		Flight testing  Deployed	Turbojet	1,800 705		20 9.75	12 24 0.5	250 150	10,688 29,250	MALE tech demonstrator HALE Aerial target; reconn Target drone
	with ideaForge with ADE and ASL Hindustan Aeronautics Ltd (HAL) with IAI	Nishant/Gagan Mk-II Nishant Netra Nirbhay Rustom-1 Druve UVTOL	Completed In development In development	Under way  Flight testing 2011	Limited	R-L Battery Turbofan; A-L or S-L	381 1.5 650	130	6.57 2.5	4.5 0.5 2	1.5	13,000 200 3,048	RSTA  Antiterrorism - COIN IRSTA - Hunter-killer  Unmanned version of Druv helo
IRAN*	National Aerospace Laboratories - w ADE Speck Systems Asr-e Talai	PTA Black Kite MAV  Baaz mini/micro Alamdar MAV	Under way Under way Under way Under way			Electric - H-L H-L	15 (mini) 4		300 mm	0.5	2		Aerial target Reconnaissance/surveillance Surveillance
	Faraz Asia Technologies Company FARC Ghods Aviation Industries	Black Eagle Unknown Unknown Faraz-2 MAV Sobakbal Ababil 3 (Swallow)	Under way Completed	Under way Under way	Deployed Deployed	H-L Solar-powered Rotary H-L Electric	1.29 87	0.35 45	4.5	0.5	10 2.7-13.5 mi 240	19,686 ft 4,268	Surveillance Surveillance
	Gilous / Walton Inicustries	Mohajer-1/2/3/4 (Mirsad-1, Doma, Hodhod) Saeqeh-1/2 (Lightning) Tallash (Endeavor and Hadaf) Mohajer-5	Completed	Completed	Deployed  Deployed  Deployed	Turbojet RATO H-L jet	O,				30-150	3,352	Attack (RPGs)  Aerial target Target drone - aka "Target 3000"
	HESA (aka IAMI) Unknown	Shekarchi (Hunter) Ababil variants (?) Hadaf-1 Karrar (Striker) Nazir (Harbinger)	Completed Under way Under way	Under way	Deployed	Jet - H-L/RATO/Pneum Jet Turbojet RATO	83	45 Disputed,115-700	0.325	1.5+	30-120 1,000	3,048	Aerial target; RSTA; long-range surveillance Aerial target Hunter-killer Hunter-killer
ISRAEL	Unknown Unknown  Sharif University of Technology Aeronautics Ltd	R'ad (Thunder) Pehpad Stealth Shahbal Aerolight Aerostar	Under way Under way Under way Completed Completed	Under way  In production In production	Testing Deployed Deployed Deployed	Pusher prop Piston - CL - pusher Fuel Injection - pusher	17.5 40 210	5.5 8 50	2.47 4 7.5	4 12	700 12 150 200	3,000 3,048 5,486	Hunter-killer Hunter-killer R/S - announced 2/10/2007 Reconnaissance/surveillance Intel; training RSTA
		Dominator Picador VTOL Orbiter I MUAV Orbiter II MUAV Orbiter III MUAV	Completed Completed Completed Completed Completed	In production In production In production	Deployed Deployed Deployed Deployed	Dual turbo-diesel Rotary Electric CL - pusher Electric CL - pusher Electric CL - pusher	899 720 7 9.5 20	400 180 1.5	14 Rotor diam. 7.22 2.2 3 3.6	8 3 4 7	200 LOS 200 30 80 100	25,000 ft 5,486 5,486 5,486	MALE multimission ISTAR ISTAR - BDA ISTAR - BDA ISTAR - BDA ISTAR - BDA
	Bluebird Aero Systems	Aerosky Aerosky 2 Blueye Boomerang Micro 2.2	Completed Under way Completed Completed Completed	Under way Under way Completed Completed Completed	Deployed Deployed Deployed Deployed	Piston Piston/battery hybrid Piston prop Electric - C-L Pusher prop - H-L/C-L	75 80 55 9 1	15 15 2 0.24	6 4. 2.75 0.95	7 10 8 7.5 1	200 50 50 15	9,750 9,750 9,750 3,250	RSTA Close-range/low-altitude TUAV Surveillance and photo R/S R/S - packed in two 7-kg briefcases
	Elbit Systems  EMIT	Skylark 1LE Skylark II Hermes 450 Hermes 900 Blue Horizon 2	Completed Under way Under way Completed Under way Completed	Completed  Under way Under way  Under way	Deployed Deployed Deployed Deployed Deployed	Electric - C-L - Can  Electric prop H-L/B-L  Electric prop - V-L  Piston pusher prop  Pusher prop  Piston	6.5 65 550 970 180	1.3 255 450 37	2.4 2.9 6.5 10.6 15.3 6.5	3.5 3 4 18 36	50 15 60 120 LOS	9,906 914 1,524 5,486 9,144 26,000 ft	ISR - BDA Selected for battalion-level R/S R/S TUAV ISTAR - BDA Tactical MALE Reconnaissance/surveillance
		Butterfly Sparrow N Mercury 3 Dragonfly DF 16B Dragonfly 2000	Under way Under way Under way Under way Under way	Under way	, ,,,,,	Piston Piston pusher prop - C-L Turbo Piston - R-L Piston	450 45 550 80 140	230 12 150 23 16	2.44 10 3.2 5	4 6 30 1.5 14	120 200	38,000 ft 15,000 ft 15,000 ft	Powered parachute ISR
	Innocon  Israel Aircraft Industries	MiniFalcon I Minifalcon II MicroFalcon I Birdeye 400 Birdeye 650	Under way Under way Under way Completed Completed	In production	Deployed	Pusher prop - C-L Pusher prop - C-L Joined-wing - B-L Electric - BL or HL Electric - BL	90 150 5.6 11	15 35 1.2 1.2	5 5.5 2.2 3	12 15 2 1 3	10 20	305 457	ISR ISR Over-the-hill ISAR ISR ISR
		Elect.Tethered Obs. Platform Heron 1/Mahatz 1 Heron TP Hunter Panther VTOL Mini-Panther VTOL	In development Completed Completed	IOC 2011 In production	Testing Deployed Deployed	Electric - 4 ducted Pusher prop Turbo pusher prop HF - RATO Electric tilt rotor Electric tilt rotor	1,250 4,650 885 65 12	20 250 1,000 100 10 2	160-cm diam. 16.6 26 10.5 8 3.5	45 36 21 6 1.5	350 BLOS w/satlink 250 60 20	100 9,144 13,716 6,096 915 305	Observation MALE ISR; comm/relay MALE ISR; comm/relay RSTA ISTAR ISR
		Mosquito MUAV Naval Rotary UAV (NRUAV) Ranger Searcher III I-View MK50	Completed Completed		Deployed Deployed	Electric HL/BL GAS rotor Piston - CL Quiet; pusher Prop	0.5 2,200 275 436 65	220 45 120 10	0.35 Main rotor diam. 11.02 5.71 8.55 4	40 min 6 5 18 6	3 150 150 350 50	152 4,572 4,572 7,010 15,000 ft	R/S ISAR - SAR - BDA RSTA RSTA - BDA Close-range TUAV-brigade-level/ special ops
	Israel Military Industries Steadicopter	I-View MK150 I-View MK250 Harpy <i>ITALD</i> Black Eagle-50 RUAV	Completed Under way Completed Completed Completed	Under way <i>Under way</i> Since 2009	Deployed Deliver 2009	Piston Prop Wankel A-L 116cc water-cooled engine	160 250 135	20 60	5.7 7.1 2.1 Rotor diam. 2	7 8	100 150 500 <i>160 n.mi</i> 50-150	17,000 ft 17,000 ft 20,000 ft 30,000 ft 2,743	RSTA Medium-range TUAV Antiradar attack - SEAD Enemy radar decoy; air-superiority trainer ISR
ITALY	Urban Aeronautics Alenia Aeronautica Advanced Aviation Technology	Casper 250 Top I Tactical Aerostat Mule A Sky-X RV-VTOL25	Under way Under way Under way Under way Under way Under way	Under way	Deployed Limited Testing	Electric prop - H-L Tethered LTA Turboshaft Microturbo GAS	5 1,100 2,600 lb 55	900 440 lb 20-25	Rotor diam. 1.8 19.5 ft Rotor diam. 2.5	1.5 2 Up to 3	360 192 10	500 12,000 25,000 ft 3,800	Backpack mini-UAV ; surveillance Security surveillance; monitoring Rescue; medivac R/S, UCAV demonstrator ISR, STAR, MM/MR
	(A2TECH) Selex Galileo  UTRI	RV-VTOLx4  Mirach 100/X Aerial target Falco Falco Evo Nibbio  MHELI	Under way Completed Completed Under way Under way Under way	Limited  Under way	Deployed Deployed	Electric WJ38-7T engine Turbo pusher prop A-L/G-L - two JATO boosters Electric	5 726 420 360 4.8	2 132 70 120 70	4x28 cm 2.3 7.2 14 2.3 Rotor diam. 0.25	20 min 1.5 14 1.5	1 180 200 400 15-25	3,000 12,344 5,000 12,500 10,500	ISR M 0.85 aerial target Surveillance  RSTA - BDA - EW - SAR Reconnaissance; surveillance
JAPAN	Fuji Kawada	AJ KAI (BQM-34AJ) FFOS J/AMQ-1 RPH-2 RoboCopter 300	Completed Completed	Limited	Limited	CAE J69-T-29 MG6 Turbojet Piston Piston	2,500 lb 600 lb 519 lb 660 lb 1,750	175 lb 650	4 Rotor diam. 4.5 2.12m Rotor diam. 16 ft Rotor diam. 26.6	3 15 min 1	1,359 5 1	55,000 ft 2,000 2,000	Target drone Surveillance Target drone Helicopter - E/O - IR - NBC Helicopter - Surveillance
JORDAN LEBANON	Yamaha  Jordan Advanced Remote Systems  Hezbollah (disputed)	R-50 R-Max Type II R-Max Type IIG Jordan Falcon Jordan Arrow Mirsad-1	Completed Completed Completed Under way Under way	Completed Under way Under way	Deployed Limited Limited Deployed	Piston Piston Piston Piston Piston pusher prop - C-L Piston pusher prop - C-L Piston	148 94 94 60 60	44 31 31 6 15 50	Rotor diam. 10 Rotor diam. 3 Rotor diam. 3	0.5 1 4 1	0.1 0.53 25 33-100 3	300 492 1,500 3,000 6,600	Helicopter Agriculture; surveillance GPS RSTA Aerial target - longer range version carries IR sensor RS/attack - possibly Iranian Mheger 4 import
MALAYSIA	Composite Technology Research  UPM Hydra Technologies	ALUDRA Mk1 ALUDRA Mk2 Intisar 100 UPMX E1 Gavilan	Completed Completed Completed Under way Under way		Testing	Piston Piston pusher prop Piston pusher prop Piston helo  Electric	200 250 13	25 50 5	16 ft 20 ft Rotor diam. 5 ft	3 6 1	50 150 2	12,000 ft 12,000 ft 12,000 ft 800	Surveillance and monitoring Surveillance and monitoring Surveillance Surveillance Civil demonstrator
NETHERLANDS NEW ZEALAND NORWAY	Dutch Space TGR Helicorp  Northern Research Institute	S4 Ehecatl Man-Portable Aerial Terrain Exp. Alpine Wasp Snark CryoWing	Completed Concept Under way Under way	Under way		Piston Electric prop Piston	55 13 2,500	9 1,500	7.8 Rotor Rotor diam. 28.6	1.5 8 1 24	3	30,000 ft 13,600 ft	MAV; close-range battlefield surveillance  Mountain SAR Reconnaissance; medevac Arctic high altitude, extreme temperature
PAKISTAN*	Air Weapons Complex	Uqaab AWC Mk1 AWC Mk2 AWC Mk3 Bravo	Under way Completed Under way Concept Under way	Under way Under way Under way	Deployed Deployed Deployed	Pusher prop  Piston prop	66 132 110	20	10.5	2 3	150-350 18 30 80	0.750	Two versions, one tactical, one strategic STA  R/S - SAR
	Adv. Computing & Eng. Solutions  Directorate Gen. of Munitions Prod. Inst. of Industrial Control Systems	Vision-1 Vision-2 Eagle Eye P1 Eagle Eye P2 HudHud 1 HudHud 2	Under way	Under way Under way		Piston pusher prop Piston pusher prop  Tractor propeller	120 176 130 175 77	25 33 30 40 44 88	10.5 14.7 5 5.8	5 4 3 4 2.5 3.5	100 90 80 150 30 48	9,750	Surveillance Surveillance TUAV surveillance R/S R/S-EW
	Inst. of Industrial Control Systems Integrated Dynamics	HudHud 2 HISAT-DK Border Eagle Mk II Desert Hawk Explorer Hawk Mk5	Under way Under way Under way Under way Completed	Under way	Deployed  Deployed	Pusher prop Piston B-L Piston pusher prop Hand-launched Prop	154 150 15	88 22 4	10 3.1 4.51	3.5 1.5 3	48 246 30		Target drone Civil border surveillance Surveillance
		Hornet Mk4 Huma Nishan Mk1 Nishan TJ 1000 Rover	Completed Under way	Under way	Deployed Deployed Deployed	Piston prop Rocker-boosted takeoff	50 130	12 20	3.87 4.4	4 6	80 100		Surveillance TUA -R/S
		Shadow Mk1 Tornado 2000 Vector Vision Mk1/Mk2 Vulcan Mk1/Mk2	Under way Under way Under way Under way			Twin pusher prop Mini-turbojet - C-L  Pusher prop Pusher prop Mini-turbojet	90	25	5.2 3.22/4.51	6 3/4	160 120 50/120		Surveillance Fighter decoy  Surveillance Aerial target
	Integrated Defense Systems  Pakistan Aeronautical Complex  SATUMA	Vulcan TJ-1000  Vector Mk1  Vector Mk2  Ababeel  Baaz	Under way Completed Under way Completed Completed	Under way Under way Under way Production (1 yr.)	Deployed Deployed Deployed Deployed	Mini-turbojet Piston prop  Piston prop - H-L Piston prop - C-L	215 264 6.2 41.9 245	55 N/A N/A 50	5.25 8	6 5+ 0.33 0.5	90 120 1.2 200 LOS	12,000	Aerial target  R/S - chemical sensor  Air defense gunnery target/Baaz trainer Air defense gunnery/ missile trainer
	SATUMA	Flamingo Jasoos/Bravo+ Mukhbar Stingray Sky-C Tunder	Completed Completed Completed Under way Under way Completed	Production (1 yr.) Production (6 yrs.)  Completed (12 yrs.)	Deployed Deployed Deployed	Piston pusher prop Piston pusher prop Piston pusher prop Electric prop B-L Electric prop H-L Piston pusher prop C-L	245 145 40 9.5 4.5 65	50 25 7.5 2 0.5	6.61 4.92 3.56 3 2.43 3.05	8 5 1.5 1.5 1	200 LOS 100 LOS 50 LOS 25 LOS 10 LOS 10 V-LOS	4,250 3,000 2,100 1,500 1,000 3,000	MR, ISR TUAV. ISR SR, ISR ISR, OVT, BDA ISR, OVT, BDA Target drone
PORTUGAL	Portuguese Air Force University of Minho A Level Aerosystems (ZALA Aero)	Tunder - LR  ANTEX- m (X00, X01, X02)  AIVA  ZALA 421-Demo  ZALA 421-02 VTOL	Completed Under way Under way Under way Completed	Completed (12 yrs.) Production (1 yr.)  In production	Deployed Deployed Deployed	Piston pusher prop C-L  Electric pusher prop  Battery - prop  Piston - rotor	70 220 33 1.2 95	10 55 13.2 40	3.05 19.5 15.6 1.2-1.5 Rotor diam. 3.64	1.5 40 min 6	2,000 50	3,000	Target drone  Civil fire/agriculture monitoring  Demonstrator  R/S - SAR - CBRN monitoring
		ZALA 421-02 V TOL ZALA 421-02X ZALA 421-04M ZALA 421-06 mini-VTOL ZALA 421-08	Under way Under way Under way Under way	Under way	Limited	Piston - rotor Electric - prop Piston - GAS Electric - prop - CL optional	90 4.5 12 2.4	30 1 2 0.3	Rotor diam. 3.12 1.6 Rotor diam. 1.77 0.8	1.5 2 2 2 1.5	50 25 40 10	3,000 3,000 3,600 3,600	Close hovering - as above R/S - monitoring R/S - monitoring R/S - monitoring R/S - monitoring
* UAV programs, compan													

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Country  RUSSIA (continued)	Prime	Designation  ZALA 421-09 ZALA 421-12 MAV ZALA 421-15 VTOL	Under way Completed Under way	t Production	Operation	Propulsion  Piston prop Electric C-L Electric	70 3.9 5	10 1 0.5	3.9 1.6 Rotor diam. 1.35	10.5 2 20 min	<b>Range, km</b> 50 15	3,000 3,600 2,500	Mission  RSTA - BDA -satcomm R/S - monitoring R/S - monitoring
	Eniks	ZALA 421-16 ZALA 421-20 ZALA 421-21 mini-VTOL ZALA 421-23 VTOL E85	Completed (?) (?) Under way Under way		On request	Piston prop - C-L GAS Electric - 6 rotors GAS rotor Pulse jet	16 200 1.5 35	3 50 0.5 13	1.62 6 Rotor diam. 0.22 Rotor diam. 2.15	7 8 25 min 1.5	50 70-400 5 40 43.5 mi	3,000 3,700 1,000 3,000 9,850	R/S - SAR - video relay; monitoring Reconnaissance/surveillance; monitoring Surveillance; monitor; video Monitoring; video Target drone
	Irkut	E95 R90 T23 Eleron DA42	Under way Under way Under way Under way		Official	Pulse jet Pulse jet Electric - H-L Twin piston	60 45 3	350	2.4 2.6 1.4	0.5 0.5 1	116 mi 36 mi 6.5 mi	10,000 10,000 2,000	Target drone Tactical reconnaissance Aerial photography; monitoring
	Kamov	Irkut-2M Irkut-10 Multipurpose UAS Ka-137 VTOL MBVK-137 VTOL	Completed Completed Under way Under way Under way	Under way Under way		Electric - H-L Electric - H-L Pusher prop Piston Piston	3 8.5 440 280 280	110 176 50-80	1.5 5.7 19.5 Rotor diam. 5.3	1.5 2.5 12 4 4	720 530	9,900 9,900 19,000 16,400 5,000	Multimission Multimission  CBW sniffing, border/fisheries/ecol monitor Based on Ka-137
	Iskatel Design Bureau Luch Design Bureau Mikoyan NII Kulon	Voron Tipchak Skat (Manta Ray) UCAV Filin	Under way RDT&E Under way	Limited		1 Klimov RD-5000B turbofan Turbojet	60 10,000 3,000	2,000	3.5 11.5	1	70-120 2,000 310	19,500 ft	Reconnaissance SEAD Tactical reconnaissance
	Novik 21st Century  B Sukhoi Strella Production Assoc.	Moskit Brat Grant BAS-62 M-932 Dan	Under way Under way Under way Under way Under way Under way			Jet Turbojet	290 16,000 lb 345		2.7	1.5 40 min	24	11,500 ft 63,000 ft 29,500 ft	Tactical reconnaissance  Global Hawk-class R/S  Target
	Sukhoi	Zond-1 Zond-2 Zond-3M BAK-SD candidate	Under way Under way Under way Under way		Dardonad	Twin jet Twin jet Turbofan pusher prop	12,000 12,000 2,000	1,500 1,500 500	35 35 16	18 24 12	500-700	16,000 16,000 8,000	ATC comm relay Multispectral monitoring Multispectral monitoring MALE - RSTA - strike
	Transas	Tu-143 Tu-243 REIS2000-D Dozor-100 Dozor-600 Aist (Stork)	Upgrading Upgrading Under way Under way Under way		Deployed Deployed Testing Testing Testing	Turbojet - RATO Piston pusher prop Piston pusher prop Twin piston prop - A-L	1,230 1,451.50 95 640 600	200	2.24 12 13.8 (?)	13 min 10 24 12	180-360 360 400 900 250	7,500 6,000	Recon - low-altitude attack Reconnaissance/surveillance R/S - comm relay R/S
	Yakovlev	PCHELA-1T Albatros VTOL Strekoza/Expert Pchela-1K Pchela-e/Shmel-2	Under way Under way Modernization Under way	1970s-1980s Under way	Limited Deployed	Piston Tilt rotor Pusher prop - C-L Pusher prop - T-L C-L	140 450 40 300 485		3.3 26 10.5	2 7 6 3.5	36 110 60 36	8,200 350 450 11,500	R/S - daytime TV camera R/S - SAR - civil ecological/counter-drug/border patro R/S - SAR day/night R/S - low-light TV camera R/S - electronic countermeasures
SINGAPORE SOUTH AFRICA	Singapore Technology Aerospace  Advanced Technologies	Fantail 5000 SkyBlade III SkyBlade IV Kiwit MUAV	Under way Under way Under way <i>Under way</i>			Ducted fan VTOL Electric - prop Pusher prop - C-L Electric - H-L	6.5 5 70 6.5	0.9	Rotor diam. 46 cm. 2.6 3.7 1.8	0.5 1	8 8 100 3	914 460 4,572 495	RSTA - BDA - Photo RSTA/BDA RSTA/SAR <i>Mini-UAV</i>
	& Engineering	Roadrunner Sentinel 500 m Sentinel 620 Sentinel 800 Vigil EE	Under way Under way Under way Under way Under way			C-L Pusher prop	6 150 200 250 80	35 35 20	1.5 5 6.2 8 4	1 12 20 8	5		R/S - aerial pursuit  Low-cost civilian UAV
	Council for Scientific & Industrial Res.	Vigil SR Vulture Super Vulture II Sekwa BWB	Under way Completed Under way	In production Under way	Deployed	Pusher prop Piston - Pusher prop Piston - heavy fuel	40 100 125	10 25 25	5.2 5.2	3	125 mi 80-200	16,400 16,400	Low-cost civilian UAV TUAV - R/S - EW RSTA - BDA
SOUTH KOREA	Denel Dynamics  KAI	Bateleur Seeker 400 Seeker II Skua Night Intruder 300	Completed Completed Under way	Under way Under way Under way Under way	Deployed Deployed Deployed	Pusher prop Piston Microturbo Rotary pusher prop	1,000 241 800 300	200 50 70 int./60 ext. 45	7 3.57 6.5	24 10 1.4 6	750 260 917 125	25,000 18,000 40,000 15,000	MALE RSTA BDA SAR  RSTA - BDA  High-speed (M 0.86) target drone  RSTA
	Smart UAV Development Center Ucon Systems	Korean Smart UAV RemoEye H-120 RemoEye 002 RemoEye 006	Under way Under way Completed Completed	Under way Under way		Tilt rotor Piston Electric Electric	120 2 6	34	Rotor diam. 9.75 1.5 2.75	3 1 1.5	50 10 15.5	3,000 3,000	R/S - Civilian monitoring Surveillance; agriculture Reconnaissance/surveillance Reconnaissance/surveillance
SPAIN	Alpha Unmanned Systems	Micro air vehicle Mini-UAV Sniper Sniper XL Commando	Under way Under way Completed Completed Completed	2006 2009 2006	Deployed Deployed Deployed	GAS GAS Electric engine	14 30 8	2 8 0.5	3 Rotor diam. 1.8 Rotor diam. 2.15 Rotor diam. 1.8	2 2 1	35 35 10	3,000 3,000 3,000	ISTAR ISTAR ISTAR
	Indra  Aerovisión Vehículos Aéreos  INTA	Atlantic Pelecano VTOL FULMAR ALO SIVA	Completed Under way Completed Under way Under way	2006 Under way	Deployed IOC 2012 Deployed	GAS  Pusher prop -C-L  Piston prop - C-L  Piston - R-L	37 200 19 55 440	12 1 13 88	Rotor diam. 3.8 Rotor diam. 3.3 3.1 9.85 15.8	8 2 6.5	100 100 480 30 90	3,000 3,600 6,500 9,800	ISTAR  ISR - BP - HS - CBRN  Reconnaissance/surveillance  RSTA  Aerial surveillance
SWEDEN	CybAero	ALBA APID 55 APID MK 5 Vantage	Under way Under way Under way Under way	In production Under way	Deployed Deployed	Piston prop - C-L Diesel rotor	33 160 172	6.6 20	7.25 Rotor diam. 3.3	1 3-6 3-5	2.5 48.4	3,018	Aerial target STAR VTOL
	Saab Defense  TechMent	Skeldar V-150 VTOL FILUR SHARC TUMAV Midget RPG Mk III	Under way Under way Under way Completed	Under way	Deployed	Rotary Turbojet Jet Piston	210 121 132 >500 25	120	Rotor diam. 10.75 8.1 6.8 Rotor diam. 1.5	2.5	60 13.5		VTOL - maritime patrol; civil support Stealth demonstrator UCAV technology demonstrator Tactical multirole Reconnaissance/surveillance
SWITZERLAND	Minizepp SA WeControl	MZ 13500 SURVEY-Copter SURVEY-Copter 4 WeControl/SURVEY-Copter	Tested Completed Under final tests Completed	2008 Since 2009 Since 2010	Deployed Deployed Testing Deployed	GAS Electric engine Electric engine Electric engine Electric engine	120 12.5 28 11.6	25 7.5 or 4.5 1.1	13.5 1.8 2.2 3	6 30 30 120	20 20 20 40	2,000 1,500 1,500 2,500	VLO - CAS BDA,E/O,EOD,G-L,IR,LALE,LOS,MM/MR,MR,R/S, S&R,SR BDA,E/O,EOD,G-L,IR,LALE,LOS,MM/MR,MR,R/S, S&R,SR BDA,E/O,G-L,H-L, IR,LALE,LOS,LR,MALE,MR,R/S, S&R,VL
TAIWAN	RUAG Aerospace/IAI Roland Imfeld Chung-Shan Inst. of Sci. and Tech. Chungkung University	ADS-95 Ranger RC-AirCam Chung Shyang II Kestrel II	Completed Under way Under way Completed Under way	Completed Under way	Deployed  Limited	Piston - CL Piston Pusher prop Piston - CL	285 22 1,000 lb 264 lb	45 8 60	5.7 2.5 25 ft 16.5 ft	9 4 10 8	180 4-50 27	5,486 11,483 12,000 12,000	RSTA R/S; comm/relay R/S - possible armed variant Reconnaissance/surveillance
TUNISIA	RMRL Yuan Ze University TAT	Swan  Annasnas Mk1 Super Nasnas	Under way Under way Under way Under way	Limited	Limited	Prop Piston or electric Piston	26 275 600	10 55 110	8.8 12.5 22.5	2 14 16	54	16,000 17,000	Surveillance; research Civil surveillance; coastal patrol Reconnaissance; multirole HALE version
TURKEY	Baykar Machine  Turkish Aero. Industries  TUSAS Aero. Industries	Heli-Turk Bayraktar Anka (Phoenix) TIHA	Under way Under way Under way Under way	Under way Under way	Limited Deployed Flight testing First flight 2011	Piston Electric prop - H-L Piston	16 5 1,600	7 1.5	6 1.6 17.3	2 1 24	10	9,150	RSTA Close-range reconnaissance/surveillance MALE - ISR MALE ISTAR - Predator class
UNITED KINGDOM	BAE Systems w/Rolls Royce, GE Aviation, QinetiQ	Mantis Corax (Raven)	Flight test. 2011 In developmen Under way	t	Stealth UCAV Testing	Turbofan  Jet [twin turboprop?]	8,000	N/A	9.1	N/A	Intercontinental	N/A	Advanced technology demonstrator  MALE; persistent surveillance  UCAV demonstrator  Reconnaissance/surveillance
	Barnard Microsystems Ltd.	Herti 1A Herti 1D Phoenix InView VuFab	Under way  Completed  Under way  Under way	Limited 2011 2011	Limited Limited	Rotax Jet Piston Twin One	1,100 65.2 20 (no fuel) 6 (no fuel)	330 50 4 1	5.5 4 2	25 4 7 1.5	621 70 700 150	20,000 26,250 6,000 1,500	Reconnaissance/surveillance  RSTA  E/O+MM/MR+RDT&E  E/O+RDT&E
	Cranfield Aerospace CyberFlight	Observer MinO SOD I SOD III SOD IV	Under way Under way Completed Completed	Under way Under way		Piston - C-L Catapult launched Electric-H-L Electri -H-L	6 (no tuel) 100 24 6.5 12 0.5	1.25 4.5 0.25	7.8 4.6 4.5 6.75 0.96	1.5 2 1 2.5	150 15 6 15 5,4	16,500 16,500 16,500 16,500	Reconnaissance  Reconnaissance/surveillance R/S, bio/chem detection, laser targeting
	Flight Refueling  GFS  Meggitt Defence Systems	Falconnet GFS-13 Banshee	Completed  Completed  Under way  Completed	Under way  Under way	Deployed Deployed	Electric pusher prop-H-L  Microturbo - C-L  Battery  Jet	0.5 585 6.8 91	0.25	0.96 3 Fan 1.8 2.5	1 1 1.5	5.4 6.25 opt./60 GPS	16,500 10,000 23,000	Reconnaissance/surveillance  Aerial target  VTOL - ISTAR - aka U.K. Flying Saucer  Air defense gunnery/ missile trainer
		Snipe Mk5 Snipe Mk15 Spectre 2 Voodoo	Completed Completed Completed Completed	Under way	Deployed Deployed Deployed Deployed	Piston Piston - H-L or C-L Piston - C-L	66 15 159 200	747	3 2.25 3.3 3.35	1.2 0.5 3-6 1-2	3 72	18,000 5,000 23,000 20,000	Aerial target Low-speed aerial target Surveillance - EW Aerial target
	Merlin Integrated Solutions QinetiQ Skyships	Optica Zepher Zepher/Mercator C1000 Cirrus 840	Under way Completed Under way Under way Under way Under way	Limited	Deployed	Solar batteries Solar electric prop Electric or piston	2,900 30 70 66	6.5 15.5	39.3 22.5 58.5 10	6 14 days 54 2	1.5	21,336 50,000 400	HALE; persistent ISTAR; comm/relay HALE; security; disaster monitoring Reconnaissance/surveillance
	Thales	JUEP Watchkeeper Vigilant	Under way  Completed	Since Jan 2010		Electric	20	6	3.2	2	80	4,000	Maritime ISTAR ISTAR
	VTOL	MSAT-500/NG GSAT-200 Mercury Aerial Police Dog	Under way Under way Under way Under way	Under way		Rotary Piston - C-L Piston - C-L Vectored thrust	180 30 66 5	24 1	8.5 7.2 8.1	1.75 0.6 3 1-2	6.2 3.1	16,500 16,500 656	Aerial target Aerial target RSTA RS/BDA - Ag
UNITED STATES	Warrior (Aero-Marine Ltd.)  AAI	GULL 24 UXV GULL 44 UXV GULL 68 UXV RQ-7B Shadow 200 TUAS	Under way Under way Under way Completed	In production	Deployed	Piston prop Piston prop Piston prop Rotary engine	40 205 550 208	13 75 207 36	8.8 16.25 25 6.2	9	507 985 1,124 125	4,572	R/S - coastal - seaplane R/S - coastal - seaplane R/S - coastal - seaplane ISRTA
	w/Honeywell	Shadow 400 Shadow 600 Micro Air Vehicle TR916 Eagle Eye Aerosonde 4	Completed Completed Under way Under way Under way	In production In production  Under way	Deployed Deployed <i>Limited</i>	Pusher prop Rotary pusher prop Ducted fan Tilt rotor Pusher prop - C-L	211 265 18.5 lb 2,900 lb 14	34 41 5.3	5.12 6.83 24.2 ft 2.9	5 14 50 min 6 30	200 200 920 mi 1,000 n.mi	3,353 4,877 5,500 20,000	ISRTA ISRTA Hover-and-stare intel RSTA LALE - surveillance
	Advanced Ceramics Research  Aero Mech Engineering	Coyote Manta B4 Silver Fox B4 Fury B Sand Dragon	Under way Under way Under way	Under way Under way	Limited Deployed	Electric pusher prop Pusher prop - C-L Piston	6.4 61 lb 9	1.3 15 lb 2.27	1.47 8.75 2.38	1 6+ 8	37 20 LOS 32.2	20,000 16,000 4,877	Surveillance and monitoring Tactical recon Ship security/harbor patrol
	AeroVironment	Raven A/B Dragon Eye Puma AE Puma Aqua/Terra	Completed Completed Completed In developmen		Six+ yrs combat Deployed Deployed Testing	Battery; HL Electric; 2 props; BL HL - battery Battery	1.9 2.68 5.9 6.35	0.18 0.45 1.8 1.8	1.37 1.14 2.8 2.6	1.5 60 2 2.5	LOS 10 LOS 5 15 9.7	152 152 3,048 3,048	Day/night ISR/TA "Over-the-next-hill" tactical R/S ISR/TA; water landing capable Under evaluation for SOCOM and Army
		Miniature Aerial Munition Switchblade Anubis Wasp II/III MAV Global Observer	In developmen In developmen In developmen Completed RDT&E	t	Testing  Deployed  Flight testing	Electric Electric Electric H-L; 2-blade prop Liguid hydrogen/elect.; 4 props	1.6 0.9 430 g	181.4	72 cm 53.34	0.5 0.75 7 days	>3 LOS 5 966 diam. ftpath.	300 19,312	NLOS precision strike ISR BLOS Weaponized Wasp Squad-level R&S Comm relay; ISR; storm and tracking; maritime ops
	Altair	Nano Air Vehicle (NAV) Onyx Parafoil LEAPP Type I Insect (LEAPP Type II)	w/DARPA Completed Completed Under way	Limited	RDT&E Limited Testing Testing	Electric; 2 flapping wings  Air-dropped  Turbo  Piston	10 g 1,043 3,600 1,200	998 200 200	>15 cm 11.6 112 65 canopy	Varies 55+ 34	48.3 1,650 1,020	10,668 52,000 17,000	Urban ISR demonstrator Deliver supplies/submunitions ISR ISR
	American Blimp American Dynamics Flight Systems Applied Research Assoc. Arcturus UAV	Micro LEAPP  AFFL  BattleHog 100x  TACMAV  T-15	Completed Under way Under way Completed Under way	Limited Under way	Testing Prototype  Deployed	Piston Blimp Recessed vertical fan Electric Piston prop - C-L	75 1,455 363 g 36	30 1,000 lb 340 45.4 g 10	14 Tail span 55 ft 5.18 53 cm 10	6 48 8+ 25 min	2.4 14	12,000 20,000 3,353	ISR/BDA Advanced airship flying lab Developmental lifting body Platoon/squad/fire team R/S
	Aurora Flight Sciences	T-16 Excalibur GoldenEye 50 GoldenEye 80	Under way Since 2009 In developmen	,	RDT&E	Piston prop - C-L Turbine-electric hybrid HF	80 1,179 8.2 81.65	30 181.5 0.9 7.26	13 6.4 1.37 2.93	16 3 1 8	17	15,000 12,192 1,524 3,048	Surveillance; comm ISTAR tech demonstrator Surveillance; chem ISR
		Odysseus Orion Perseus A Perseus B Skate SUAS	Under way In developmen		Flight test. 2011	Solar-powered prop Twin turbo-diesel closed-loop engine - gas, LOX Triple turbocharged Rotax Electric	5,067 0.9	1,905 0.23	40.2	5 yrs 5 days	15,289	6,096 18,898	Extreme persistence demonstrator MALE-EP JCTD MAGIC Atmospheric and earth research Atmospheric and earth research Indoor/outdoor ISR
	BAE Systems	SunLight Eagle Theseus A/B Coyote Manta B4	Since 2008  Completed Completed	In production	Deployed Deployed	Solar electric prop Turboprop Electric pusher prop - A-L Gas - twin pusher prop	79.4 6.4 27.7	2.27 6.8	34.75 1.47 2.6	1.5	37 37	>7,620 6,096 4,870	HALE test platform Atmospheric and earth research ISR - BDA - expendable ISR
	BAI Systems L-3 BAI Aerosystems	Silver Fox B4  XPV-1 Tern  Evolution XTS  Javelin  Viking 100	Completed Completed Completed Completed Completed	Limited Under way Limited Under way	Deployed Deployed Deployed Limited	Gas prop - CL GAS Electric - H-L/B-L Piston prop Piston pusher prop	12.2 59 8.2 lb 20 150 lb	2.27 11.34 1.5 lb 3.2 20 lb	2.4 3.47 5.4 ft 8 12 ft	8-10 2 1.5 2 6-8	36 LOS 64.4 1 75	3,658 3,048 1,000	ISR Force protection; sensor dispersion Back-packable surveil; SAR; chem detector Reconnaissance/surveillance R/S; sensor drop
	_w/NAVMAR Applied Sciences Bell Helicopter Textron	Viking 105 Viking 300 Viking 400 XPV-2 Mako Miniature aerial munition	Completed Under way Under way Completed	Under way Under way	Deployed	Piston pusher prop Piston pusher prop Pusher prop 3W 100 cc	150 lb 318 lb 493 lb 130 lb	20 lb 30 lb 60 lb 30 lb	15 ft 17.5 ft 20 ft 12.8 ft	10-14 6-8 10-12 8.5	75 75 75 40 n.mi	10,000	R/S; sensor drop R/S; sensor drop R/S; sensor drop Reconnaissance
	with Northrop Grumman  Boeing Military Aircraft	Fire-X VT  Eagle Eye  Unmanned 407X  A160 Hummingbird	Completed Under way	Limited		Turboshaft	2,250 lb	200 lb	24.2 ft	6	800	20,000	Tilt rotor  USMC cargo UAS demonstrator
	with DARPA Phantom Works	X-37B OTV-1 Vulture Phantom Eye Phantom Ray Class I UAV	IOT&E	LRIP	Deploy 2012								First orbital test vehicle  Soldier-operated IRSTA
	Carolina Unmanned Vehicles  Dara Aviation	LAS 35M3 LAS 64M3 LAS LCS variant D-1	Completed Completed Under way Under way	2007 2006 2008	Delivered Delivered Design	NA NA NA Catapult-launched	LTA LTA LTA <i>77</i>	14 30 14 22	35 m³ vol 64 m³ vol NA <i>10.7</i>	168 168 168 17	0 0 0	1,000 1,250 1,000	SIGINT, COMINT, ELINT, OTH COMM, E/O, IR, ISR OTH Telemetry Relay OTH COMM relay, ISR, LCS Several variants; low-medium altitude R/S
	Dragonfly Pictures  DRS Unmanned Technologies	DP-4X DP-5X DP-5XT Sentry HP RQ-15 Neptune	Completed Under way Under way Completed Completed	Under way  Completed	<i>Limited</i> Deployed	Piston Piston - heavy fuel Twin rotor Piston Piston	140 250 190.5 59	30 35 154 75	Rotor diam. 8.5 Rotor diam. 8 3.9 2.13	1 5	650 112.66 64.4	7,000 3,048 2,438	Helicopter Helicopter - RSTA  R/S - target; sigint Pneumatic sea- or land-launched; RSTA
	D-Star (AurAayan Aerospace) Elbit Systems of America Frontline Aerospace	D'Humbug Plus Hermes Skylark VSTAR	Under way Under way	·		Ducted fan Twin turbo	300 2,600 lb	50 <400 lb	Span 6.5 16.5 ft	<17	27 425 w/max	18,000 31,000	Rotor-in-wing  TUCAV-MRE
	General Atomics Aeronautical Systems	I-GNAT ER/Sky Warrior Alpha Predator (RQ-1A/MQ-1) Predator B (MQ-9 Reaper) Sky Warrior (MQ-1C Gray Eagle) Predator C Avenger	Completed Completed Under way Under way Under way	Completed Completed In production In production In production	Deployed Deployed Deployed Limited Testing	Turbo pusher prop Turbo pusher prop Turboprop (TPE 331-10T) Thielert 135 heavy-fuel Pratt&Whitney PW545B	1,045 1,045 4,763 1,455 7,257	204 int./136 ext. 204 int./136 ext. 385 int./136 ext. 261 int./227 ext. 1,855 int./2,722 ext.	17 17 20.3 17.25 20.11	40 40 30+ 30+ 20	Undisclosed Undisclosed Undisclosed Undisclosed Undisclosed Undisclosed	7,620 7,620 15,240 8,839 15,240	MALE, ISTAR-A, SIGINT MALE, ISTAR-A, SIGINT MALE, MM/MR, ISTAR-A, SIGINT LRIP, MALE, ISTAR-A, SIGINT MALE, MM/MR, ISTAR-A, SIGINT
	Geneva Aerospace Griffon Aerospace Guided Systems Technologies	Dakota MQM-171A Broadsword MQM-170A Outlaw SiCX-10E	Under way Under way Completed Completed	Under way In production In production Since 2009	Deployed Deployed Deployed Deployed	Piston  Electric - VTOL	133 lb 500 lb	50 lb 4.5	12.7 ft 17ft Rotor diam. 1.84	3+ 20 min	136 mi 10	15,000 3,600	R/S; sensor test  Generic TUAV target/training system RPV target S&R, RDT&E
		SiCX-12 SiCX-25 SiCX-25-2H SiCX-250 SiCX-300V	Completed Completed Completed Under way Under way	Since 2006 Since 2010 Since 2010 Since 2009	Deployed Deployed Deployed Testing	Piston - VTOL Piston - VTOL Piston - VTOL Piston - VTOL Piston - VTOL	8.6 20 20 162 29	5.4 12 12 115 2.5	Rotor diam. 1.93 Rotor diam. 2.14 Rotor diam. 2.14 Rotor diam. 6.1 Rotor diam. 3	Up to 2 50 min Up to 2 Up to 5 Up to 5	10 10 20 40 350	3,000 3,000 3,000 2,400 4,500	RDT&E RDT&E RSTA, S&R M/UAV, agricultural ImiNT, S&R, RSTA
	Honeywell	XM-156 Class I RQ-16A T-Hawk gMAV T-Hawk Class 2 T-Hawk MAV (heavy)	In developmen Completed Under way Under way	Limited	IOC 3Q FY15 Deployed First flight 2012 IOC 2015	HF turbine Gas piston - ducted fan HF piston - ducted fan HF piston - ducted fan	14.7 7.9 18 18.6	3.86 0.9	45.7 duct diam.	60 50 min	8 10	3,353 3,048	Platoon/company RSTA SA/recon; fits in backpack
	ILC Dover Insitsu (Div. of Boeing)	TARS ScanEagle NightEagle Inceptor mini-helo Integrator	Under way Completed Completed Completed Under way	Under way Since 2002 Since 2004 LRIP 2012;	Deployed Deployed Deployed Deployed RDT&E	Blimp GAS GAS Electric HF reciprocating engine; CL	20 22 1.1 61.2	1,200 lb 0.9 17	Tail span 100 ft 3 3.19 Rotor diam. 710 mm 4.8	30 days up to 30 18+ 20 min 24	100	15,000 5,944 5,944 150 4,573	Tethered aerostate radar system ISR; comm relay Night ISR ISR; SAR ISR - droppable payloads
	Innovative Automation	Integrator Hydrogen HALE SeaScan/A20/ Geo-Ranger Insight Axo	Under way Under way Completed Completed Completed	Under way Under way Under way Limited	Deployed Deployed Available	Piston Piston pusher prop Piston Electric	2,000 lb 38.4 44 lb	17 200 1.3	9.8 10.2 ft 2.4	24 7 days 15 20+ 1.5	900	4,573 65,000 ft 23,000 19,500	ISR - droppable payloads Follow-on to Condor ISR; communications ISR Sensor/avionics test platform
	Technologies  IntelliTech Microsystems  Iron Bay  Kaman Aviation	Miniature aerial munition  Vector LRE  XTM  K-MAX Burro	In developmen Under way Under way Completed	Under way Under way Under way	Testing  Deployed	Pusher prop Piston pusher prop Single-engine twin rotor	1.6 75 60 12,000 lb	25 25 5,000 lb	8.4 16 Rotor diam. 48 ft	0.5 6 8 10	>3 300 45 175	100 10,000 10,000 29,000	NLOS precision strike Surveillance and science Reconnaissance/surveillance Broad-area unmanned rapid resupply
	Lockheed Martin Skunkworks - with ShotSpotter	High Altitude Airship (HAA) Shot Stalker MUAV Stalker Desert Hawk/FPASS Desert Hawk III	In developmen In developmen Completed Completed Under way	t	Deployed Deployed	Electric Silent electric  Electric - B-L/R-L Electric - H-L	7 lb	22.7 1 lb 2 lb	21.3 hull diam.  4.3 ft 4.5 ft	15 days 1 1 1.5	966 surveil diam. 6 n.mi 9.3 mi	18,288	Untethered high-altitude surveillance Detect/geolocate gunshots and mortar fire USMC cargo UAS demonstrator Force protection aerial surveillance system Larger vehicle, modular payload bay
		Morphing Wing FALCON Cormorant Polecat P-175	Under way Under way Under way Under way		IOC 2012	Turbojet Hypersonic RATO Turbofan (twin)	9,000 9,000	1,000 1,000	29.6 16 90	3	9.3 mi 500	35,000 60,000	DARPA technology demonstrator Force application and launch from CONUS Submarine-launched multipurpose UAV High-altitude ISR demonstrator
	w/ISL-Bosch Aerospace Mission Technologies	PTDS REAP  BUSTER BUSTER-LE E-BUSTER	Under way Completed Completed Under way Completed	Under way  In production In production	Limited Deployed Deployed Testing Testing	Aerostat Aerostat  GAS - JP-5 & JP-8  GAS  Electric	5.9 7.3 9.4	500 lb 35 lb 1.4 1.4 1.8	Tail span 36 ft Tail span 17 ft 1.26 1.8	25 days 10 days 4 10 2	37 37 37	5,000 300 4,000 4,400 5,400	Persistent threat detection system Rapidly elevated aerostat platform TUAV, E/O, IR, RSTA, B-L, LALE TUAV, E/O, IR, RSTA, B-L, LALE TUAV, E/O, IR, RSTA, B-L
	MLB	Hellfox Mini-Vanguard BAT 3 BAT-4	Under way Under way Completed Under way	In production  Completed	Testing  Limited	Reciprocating Reciprocating Piston B-L Pusher prop	350 lb 105 lb 23 100	5 30	1.8 3.4 2.2 6 ft 8	2 8 4 5.5	180 mi 350 fuel/10 LOS	18,000 15,000 10,000 10,000	Multimission Multimission RSTA Surveillance and monitoring
	Moller  Naval Research Lab	V-BAT  Aerobot  FINDER	Under way  Under way  In developmen	t Limited	Limited	Piston fan; tailsitter  Rotary - heavy fuel  CL or AL	35	5 350 4.99	5 Fan 8x20 in 2.6	11	240 fuel/10 LOS	10,000 10,000	Surveillance and monitoring  VTOL - Developing for niche customers  DTRA chem sensor; AFSOC standoff target PID; jamm
		ALICE BITE-wing CICADA Dakota 2	Under way Under way Under way Under way	Limited	Littled	JP-8 prop Flapping biwings Air-dropped glider Prop	20-30 g 7 oz	25 lb	2.6 6-in cube w/18 MAVs)	2	321.9 250 n.mi	7,620 45,000 ft	Air-launched integrated countermeasure-expendable Biplane engine - MUAV "insect flight" demonstrator GPS-guided MUAV to "seed" miniature sensors Payload testbed
		Extender Finder Ghost Sender	Under way Under way Under way Completed	Completed	Limited	Electric AL Pusher prop - UAV AL Prop Battery	31 lb 10 60	7 lb 2.5 10	4	2.3 6.5 2 2	100	5,000 30,000	Electronic warfare Chemical weapons "sniffer" Payload testbed Prototype small UAV demonstrator
	NAVMAFR Applied Sciences with BAI Systems Neural Robotics Inc.	Swallow XPV-2 Mako TUAV  Autocopter Express E Autocopter Express GXL	Under way Completed Under way Under way	Limited	Deployed	Electric pusher prop GAS pusher prop Electric Piston	60 59	10 11.6 10 lb 15 lb	15 3.86 Rotor diam. 5.8 ft Rotor diam. 5.9 ft	2 8.5 0.25 1	60 75 0.5 mi 0.5 mi	30,000	Bio collection  Mini-helicopter - photo Surveillance and photo
	Northrop Grumman Aerospace Systems	EuroHawk (RQ-4E) NATO AGS (RQ-4B Block 40 ) NASA: RQ-4A Global Hawk	Completed Completed Completed	Since 2007 Since 2008 Completed in 2002 Completed in 2006	Testing Testing Deployed Deployed	Turbofan, heavy fuel Turbofan, heavy fuel G-L	14,628 14,628 12,111 12.111	1,360 1,360 907.2	39.9 39.9 35.4	30+ 32+ 35+ 35+	22,780 22,780 22,236	18,300 18,300 18,300 18,300	HALE, SIGINT HALE, ISR HALE, earth science
		USAF: RQ-4A Block 10 USAF: RQ-4B Block 20 USAF: RQ-4B Block 30 USAF: RQ-4B Block 40 USN: MQ-4C BAMS	Completed Completed Completed Under way Under way	Completed in 2006 Completed in 2008 Since 2005 LRIP since 2006 SDD since 2010	Deployed Deployed Deployed Testing Testing	G-L G-L G-L G-L	12,111 14,628 14,628 14,628 14,628	907.2 1,360 1,360 1,360 1,360	35.4 39.9 39.9 39.9 39.9	35+ 36+ 36+ 36+ 30+	22,236 22,780 22,780 22,780 22,780	18,300 18,300 18,300 18,300 18,300	HALE, ISR HALE, ISR, EO/IR, COMM HALE ISR, EO/IR, SIGINT, SAR HALE ISR, GMTI, SAR BAMS HALE ISR, EO/IR, SIGINT, GMTI, SAR, AIS, COMM
		USN: RQ-4A Block 10 BAMS-D USN: X-47B UCAS-D Bat-10/12 MQ-5B Hunter	Completed Under way Under way Completed	Completed in 2006  Limited Completed in 2006	Deployed RDT&E Testing Deployed	G-L P&W F100-PW-220U GAS or HF pusher prop Heavy fuel	14,626 12,111 20,185 99.8 816.5	907.2 2,041 34.02	35.4 18.9 3.66 10.4	35+ Variable 12 15	22,780 22,236 3,890 1,592	18,300 18,300 12,192 4,500 6,096	BAMS HALE ISR, EO/IR, SIGINT, GMTT, SAR, AIS, COMINI BAMS HALE, ISR UCAV carrier demonstration TUAV, BWB , ISR, STAR, BAMS Multimission
	with Hybrid Air Vehicles, SAIC, AAI Ohio Univ Avionics Engineering Center Oregon Iron Works	MQ-8B FireScout LEMV Galah Sea Scout	In developmen Under way <i>Under way</i>	Since 2009	Testing 2012 Testing	Four diesel engines Piston pusher prop  AR74-1470	10.5+ 350 lb	1,134 2.5+	~46W-92L-26H 2.36 17 ft	21 days 0.33+	3,219 26.2 115 mi	6,096 2438.4 20,000	Persistent ISR Sense and avoid test platfrom  Comm relay; surveillance
	Oregon Iron Works Pioneer UAV Inc. Proxy Aviation Systems Raytheon	Pioneer (RQ-2B) SkyWatcher SkyRaider Cobra	Completed Under way Under way Under way	Under way  Limited	Deployed	Rotary - RATO option Jet (heavy fuel option) Jet Piston prop	450 2,900 4,000 105	100 650/350 (8/15hr) 330-1,000 27	16.9 31 32 10 ft	5 6 15 -10 3	115 mi 100 36 mi	20,000 12,000 20,000 24,000 12,000	RSTA; BDA; attack  MALE ISR/BDA ISR/BDA/comm Testbed demonstrator
	RotoMotion Inc.  Sanswire	MALD  SR-20  SR-100  SR-200  STS-111 Airship	Under way Completed Completed Completed Under way	Under way Under way Under way Under way	Deployed Deployed Deployed Testing	Turbojet - A-L Electric Electric or piston Piston	250 26.5 55 110	10 18 50	4.5 Rotor diam. 5.75 Rotor diam. 6.6 Rotor diam. 9.8 3.35 diam.	0.4 0.753 4 5 days	0.5 LOS 0.5 LOS 5 LOS 1,448	4,572	Disrupt enemy integrated air defense systems  Mini-helicopter - surveillance  Mini-helicopter - surveillance  Small VTOL - surveil.  MALE C4ISR - MDA
	SurveyCopter	Stratellite Airship SAS-51 Airship SkySat Airship Copter 1B VTOL	Under way Completed Under way Completed	Limited  In production	Testing  Demonstration	Solar power	15	5	Rotor diam. 1.8	0.75	1,448 Vis. to 125,000 mi <sup>2</sup>	18,288	ISR; comm relay ISR ISR R/S - BP
	Schweizer Aircraft (Sikorsky) Swift Engineering	Copter 4 VTOL Blimp 2C Blimp 37M Argus 300 KillerBee "KB-1"	Completed Under way Under way Completed Completed	In production  Under way  Prototype	Deployed	Tethered Tethered Piston Piston/pusher	25 1,750 15 lb	10 900 g 10 650 7 lb	Rotor diam. 2.2 1.2 diam. 3 diam. Rotor diam. 13.4 2 ft	1 1 1 1	8 1,000 mi	1,500 150 150 150	R/S - BP Aerial photography Aerial photo - surveillance VTOL - R/S - comm relay MAV ISR - developmental BWB concept demo
		KB-2 KB-3 KB-4 KB4-ER	Completed Completed Completed Proposed	Prototype Completed Completed LRIP Conceptual		Piston/pusher Piston/pusher Piston/pusher Piston/pusher	60 lb 120 lb 155 lb 220 lb	10 lb 20 lb 30 lb 35-50 lb	6 ft 9 ft 10 ft 14 ft	15 15 15 15 @ 50 lb	1,200 mi 1,200 mi 1,200 mi 1,200 mi	15,000 15,000 15,000 15,000	ISR RSTA / comm relay Multimission Multimission
	Tactical Aerospace Group  Textron Defense Systems  Theiss Aviation	TAG-M80 TAG-M65 Miniature aerial munition Ferret PLANC	Under way Under way In developmen Completed Completed	t Limited Limited	Testing	Piston  Electric H-L/B-L  Electric H-L/B-L	89 lb 57 lb 1.6 5.5 5.8	44 lb 24.25 lb 1.5	Rotor diam. 2.55 Rotor diam. 7 ft 3.3 1.75	3.5 5 0.5	54 n.mi 54 n.mi >3 1.5 1.5	13,124 13,124 100	R/S-EW RSTA-EW NLOS precision strike
	UAS Dynamics	Super Ferret Tactical Information Craft Tarzan TD-1c STORM	Completed Under way Completed Under way	Limited Limited  Under way Unknown	Testing	Electric H-L Battery Piston	5.8 8 255	4 105 13.6-34	7.75 7.5 3-4 in. 18	18 w/13kg pay.	1.5 1.5 245		Offered for STUAS Tier I
	Joint venture: UAV Research Lab.	Skylark I-LE Merlin 200 Rotor Buzz Silhouette	Under way Completed Completed Completed	Since 2006 Since 2007 Completed	Limited Limited Limited	H-L Piston Piston Electric/piston	85 100 12.7	30 40 9.1	4.88 Rotor diam. 3.2 2.6	3 5.5 1 1.0 (w/piston)	15 60 0.8 9	3,700 120 1,500	Small unit close reconnaissance  R/S, RDT&E, TUAV capability, G-L, C-L  Helicopter, R/S, RDT&E, crop dusting
	Viking Aerospace	Wolverine III (MQ-W3)  CIRPAS Center for Interdisciplinary Re	Completed motely Piloted	Production since 2009		Electric	Micro-Air Vehicle	4.5		1 ituational Awareness	20		R/S, RDT&E, G-L  STUAS Small Tactical Unmanned Air System
A-L Air Launched AMW Anti-Mine Warfa ASW Anti-Submarine ATA Air-to-Air (missi	are e Warfare ile/gun attack)	Aircraft Studies C-L Catapult-Launched COIN Counter-Insurgency ELINT Electronic Intelligence EOD Explosive Ordnance Disposal		ISR Intelligenc ISTAR-A Intelligenc Reconnais: JCTD Joint Capa	e/Survellance/Reconnais e/Surveillance/Target Ac sance-Attack bility Technology Demor de/Long Endurance	quisition/ MM/MR MR	Maritime Domain A Multimission/Multi Medium Range Optionally Manned Optionally Piloted	role I or U nmanned Aerial Vehicle	S&R - SAR S SIGINT S S-Aut S Sea S	earch & Rescue ignals Intelligence emi-Autonomous ea-Launch (surface or hip Launch	submarine)		SUAS Small Unmanned Aerial System  TA Target Acquisition  T-L Transporter Launcher  TUAV Tactical UAV  VLO Very Low Observable