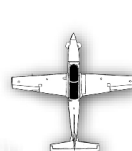
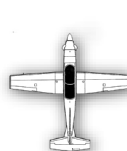
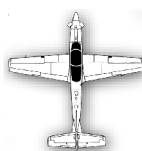
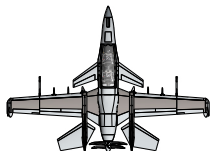
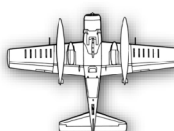
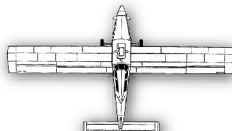


SM-27 PROP ATTACK AIRCRAFT COMPARISON



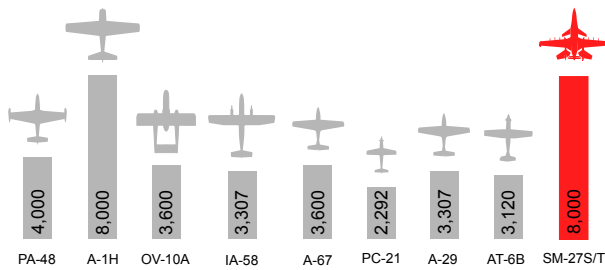
Manufacturer	STAVATTI	EMBRAER	RAYTHEON	PILATUS	KAI
Aircraft	SM-27S/T Machete	A-29/AT-29 ALX	AT-6B	PC-21	KA-1
First Flight	2017	1999	2000	2002	1990
Crew	1 to 2	1 to 2	2	2	2
Powerplant(s)	1 x PW150	1 x PT6A-68	1 x PT6A-68	1 x PT6A-68B	1 x PT-6A-62
Power (shp)	4,000	1,600	1,100	1,600	950
Span (ft)	53.0	36.5	33.4	28.8	34.8
Length (ft)	38.5	37.5	33.3	36.7	33.7
Height (ft)	12.92	12.8	10.7	12.8	12.1
Wing Area (sq ft)	354.12	209	175.3	160.4	172.3
MTOW (lbs)	30,000	11,910	6,500	9,370	7,300
Empty Weight (lbs)	15,000	6,550	4,709	4,960	4,210
External Warload (lbs)	8,000	3,306	3,120	2,292	1,700
Internal Fuel (lbs)	5,000	1,186	1,163	919	900
Internal Fuel (USG)	746	183	164	141	138
Stores Stations (No.)	8	5	6	5	6
Internal Gun	1 x 30mm GAU-13/A	2 x 12.7mm	None	None	None
Max Speed @ SL (Kts)	350	303	316	300	280
Max Speed @ ALT (Kts)	405	303	316	370	350
Max Cruise @ ALT (Kts)	365	286	230	340	244
Stall Speed @ SL (Kts)	98	78	74	80	70
Max Climb Rate (ft/Min)	4,275	4,750	4,500	4,090	3,500
Service Ceiling (ft)	45,000	38,000	35,000	38,000	38,000
Tactical Radius, Internal Fuel (nm)	870	400+	400+	400+	450
Max Range, Internal Fuel (nm)	2,534	810	900	800	900
Ferry Range, External Tanks (nm)	3,800	1,721	NA	NA	1,118
Wing Loading (lbs/sq ft)	84.7	57	37.1	58.4	42.4
Power Loading (lbs/shp)	7.50	7.4	5.9	5.8	7.68
Load Limits (g)	7.5	7.5	7.5	8	7.5
Takeoff Distance (ft)	1,995	1,148	1,775	795	800
Landing Distance (ft)	480	1,804	1,900	1,148	1,300



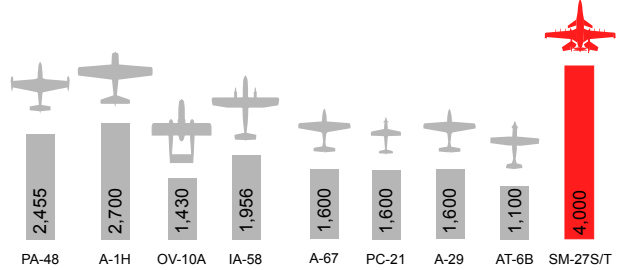
Manufacturer	AIR TRACTOR	US AIRCRAFT	DOUGLAS	ROCKWELL	FMA
Aircraft	AT-802U	A-67 Dragon	A-1H Skyraider	OV-10A Bronco	IA-58 Pucar'a
First Flight	1990	2006	1945	1965	1969
Crew	1	1 to 2	1	2 to 7	2
Powerplant(s)	1 x PT6A	1 x PT6A-68/3	1 x R-3350-26WB	2 x T76-G-416	2 x Astazou XVIG
Power (shp)	1,600	1,600	2,700	1,430	1,956
Span (ft)	59.2	38.0	50	40.0	47.5
Length (ft)	36.0	-	39.25	41.6	46.8
Height (ft)	11.1	-	15.8	15.2	17.6
Wing Area (sq ft)	401	211	400	291	326.2
MTOW (lbs)	16,000	10,200	25,000	14,444	14,990
Empty Weight (lbs)	7,120	4,800	12,072	6,969	8,862
External Warload (lbs)	7,844	3,600	8,000	3,600	3,307
Internal Fuel (lbs)	1,651	1,600	2,280	3,757	2,205
Internal Fuel (USG)	254	246	340	578	277
Stores Stations (No.)	7	-	15	7	3
Internal Gun	-	-	4 x 20mm	4 x 7.62mm	20mm & 7.62mm
Max Speed @ SL (Kts)	182	304	276	244	270
Max Speed @ ALT (Kts)	192	371	297	244	270
Max Cruise @ ALT (Kts)	192	346	164	194	259
Stall Speed @ SL (Kts)	79	79	97	75	77
Max Climb Rate (ft/Min)	850	4,882	2300	2,650	3,545
Service Ceiling (ft)	13,000	35,000	31168	26,000	32,800
Tactical Radius, Internal Fuel (nm)	400	-	275	NA	190
Max Range, Internal Fuel (nm)	800	1,880	1300	NA	728
Ferry Range, External Tanks (nm)	-	-	3240	1,240	2,002
Wing Loading (lbs/sq ft)	39.9	48.3	62.5	49.6	45.9
Power Loading (lbs/shp)	11.85	6.38	9.26	10.1	7.7
Load Limits (g)	-	7	7.0	6	3
Takeoff Distance (ft)	2,000	1,033	2,500	2,800	985
Landing Distance (ft)	2,000	1,710	2,448	1,220	656

Maximum External Warload (lbs)

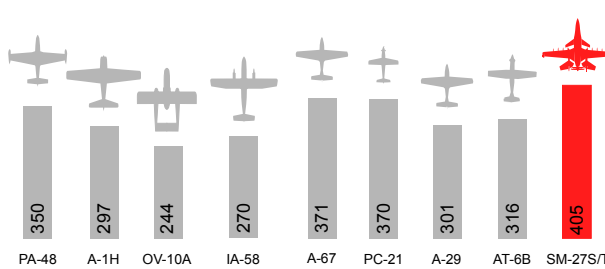
With Maximum Internal Fuel

**Maximum Power (SHP)**

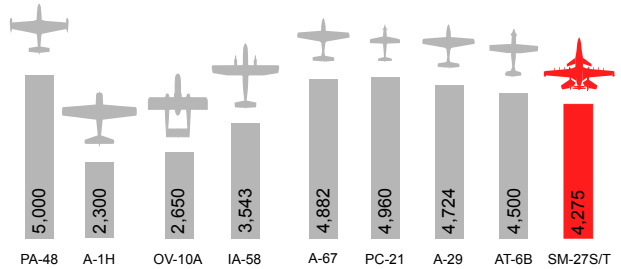
Maximum Sea Level Power

**Maximum Level Speed (KTAS)**

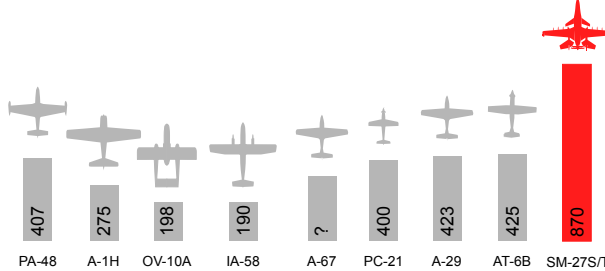
Aircraft in Clean Configuration

**Maximum Climb Rate (ft/min)**

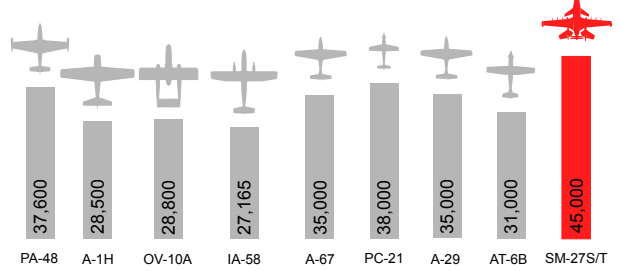
At Sea Level, Standard Day

**Tactical Radius (nm)**

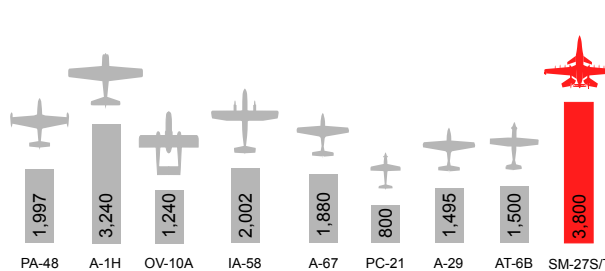
With Maximum Internal Fuel

**Service Ceiling (ft)**

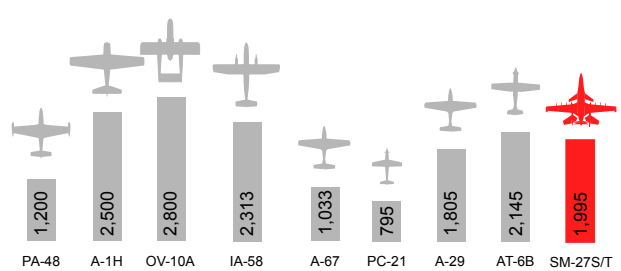
At Maximum Gross Weight

**Maximum Range (nm)**

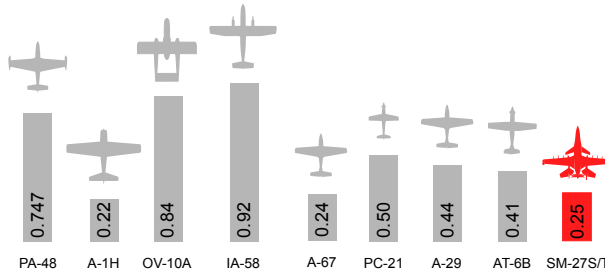
With Maximum Internal + Maximum External Fuel

**Takeoff Distance (ft)**

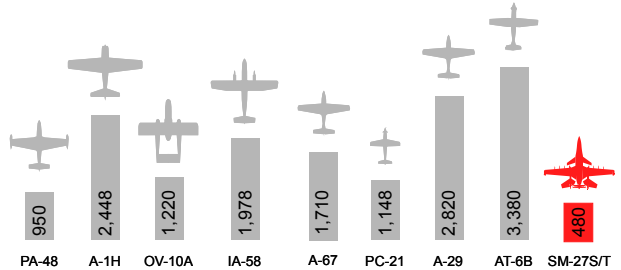
Over 50 ft Obstacle or as Published

**Relative Fuel Burn Ratio**

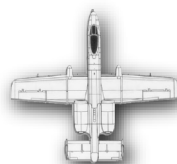
Fuel (lbs) to move 1,000 lbs of Warload 1 nm

**Landing Distance (ft)**

Over 50 ft Obstacle or as Published



SM-27 JET ATTACK AIRCRAFT COMPARISON



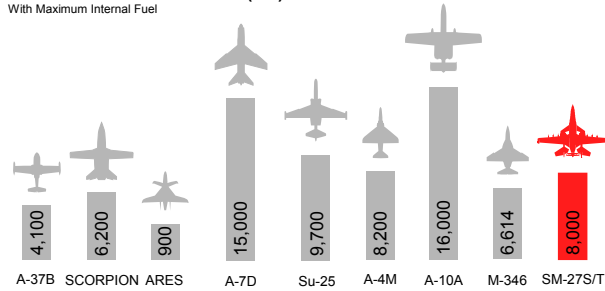
Manufacturer Aircraft	STAVATTI SM-27S/T Machete	FAIRCHILD A-10 Thunderbolt II	SUKHOI Su-25K Frogfoot	BAE Hawk 200	TEXTRON Scorpion
First Flight	2017	1972	1975	1986	2013
Crew	1 to 2	1	1	1	2
Powerplant(s)	1 x PW150	2 x TF34-GE-100	2 x R195	1 x ADOUR MK 871	2 x TFE731
Thrust/Equivalent Thrust (lbs)	10,000	18,130	19,840	5,845	8,000
Span (ft)	53.0	57.5	47.1	30.8	47.3
Length (ft)	38.5	53.3	50.9	37.2	43.5
Height (ft)	12.92	14.7	15.6	13.7	14.17
Wing Area (sq ft)	354.12	506	324	180	270
MTOW (lbs)	30,000	50,000	38,645	20,061	21,250
Empty Weight (lbs)	15,000	24,959	20,950	9,810	11,800
External Warload (lbs)	8,000	16,000	9,700	6,614	6,200
Internal Fuel (lbs)	5,000	10,700	6,614	3,000	6,000
Internal Fuel (USG)	746	1,597	987	334	896
Stores Stations (No.)	8	11	10	7	6
Internal Gun	1 x 30mm GAU-13/A	1 x 30mm GAU-8/A	1 x 30mm A0-17A	None	None
Max Speed @ SL (Ktas)	350	381	475	549	450
Max Speed @ ALT (Ktas)	405	380	526	575	-
Max Cruise @ ALT (Ktas)	365	336	513	430	-
Stall Speed @ SL-MTOW (ktas)	98	128	108	96	95
Max Climb Rate (ft/Min)	4,275	6000	5,000	11,510	-
Service Ceiling (ft)	45,000	45,000	32,810	45,000	45,000
Tactical Radius, Internal Fuel (nm)	870	540	380	660	-
Max Range, Internal Fuel (nm)	2,534	2,130	1,053	1,311	2,400
Ferry Range, External Tanks (nm)	3,800	2,454	1,450	1,950	2,400
Wing Loading (lbs/sq ft)	84.7	98.8	119.3	111.5	78.7
Thrust to Weight Ratio	0.33	0.36	0.51	0.29	0.38
Load Limits (g)	7.5	7.33	6.5	8	-
Takeoff Distance (ft)	1,995	4,000	1,970	2,070	-
Landing Distance (ft)	480	2,000	1,312	1,960	-



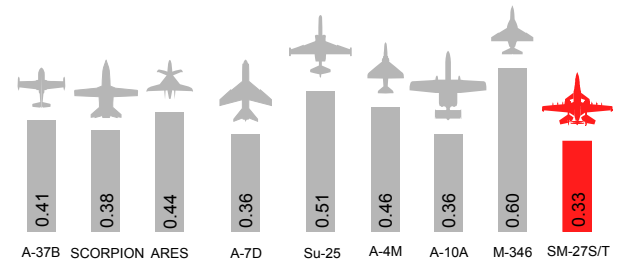
Manufacturer Aircraft	CESSNA A-37B Dragonfly	AERMACCHI M-346	SCALED Rutan 151 ARES	VOUHGT A-7D	DOUGLAS A-4M
First Flight	1963	2004	1990	1965	1954
Crew	2	2	1	1	1
Powerplant(s)	2 x J85-GE-17A	1 x F124-GA-200	1 x JT15D-5	1 x TF41-A-2	1 x J52-P-408A
Thrust/Equivalent Thrust (lbs)	5,700	12,560	2,950	15,000	11,200
Span (ft)	35.8	31.8	35	38.8	27.5
Length (ft)	29.3	37.7	25.5	46.1	41.3
Height (ft)	8.9	16.3	10.8	16.0	15.0
Wing Area (sq ft)	184	253.2	191	375	260
MTOW (lbs)	14,000	20,943	6,700	42,000	24,500
Empty Weight (lbs)	6,211	10,163	3,600	19,915	10,418
External Warload (lbs)	4,100	6,614	900	15,000	8,200
Internal Fuel (lbs)	3,307	4,409	2,200	9,263	4,434
Internal Fuel (USG)	494	335	333	1,383	662
Stores Stations (No.)	8	9	4	8	5
Internal Gun	1 x 7.62mm	None	1 x 25mm GAU-12/U	1 x 20mm M61A1	2 x 20mm MK-12
Max Speed @ SL (Ktas)	440	585	305	606	595
Max Speed @ ALT (Ktas)	440	572	375	595	543
Max Cruise @ ALT (Ktas)	425	572	210	465	429
Stall Speed @ SL-MTOW (ktas)	75	90	78	146	143
Max Climb Rate (ft/Min)	6,990	21,000	-	6,800	8,440
Service Ceiling (ft)	41,765	45,000	-	42,000	46,400
Tactical Radius, Internal Fuel (nm)	230	270	-	600	440
Max Range, Internal Fuel (nm)	399	1,100	1,500	1,070	1,615
Ferry Range, External Tanks (nm)	878	1,500	-	1,342	1,740
Wing Loading (lbs/sq ft)	76.1	82.7	35.1	112.0	94.2
Thrust to Weight Ratio	0.41	0.60	0.44	0.36	0.46
Load Limits (g)	6	8	8	7.0	7.0
Takeoff Distance (ft)	2,596	920	1,500	5,000	3,520
Landing Distance (ft)	1,710	1,900	2,000	3,350	3,670

Maximum External Warload (lbs)

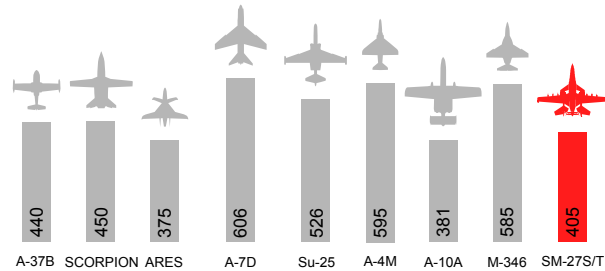
With Maximum Internal Fuel

**Thrust-to-Weight (t/w)**

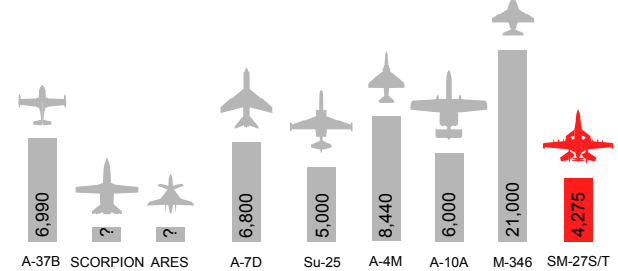
Maximum Sea Level Thrust/MTOW

**Maximum Level Speed (KTAS)**

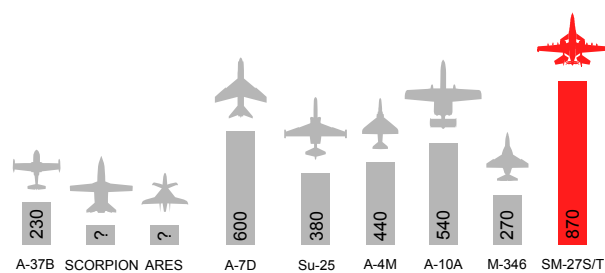
Aircraft in Clean Configuration

**Maximum Climb Rate (ft/min)**

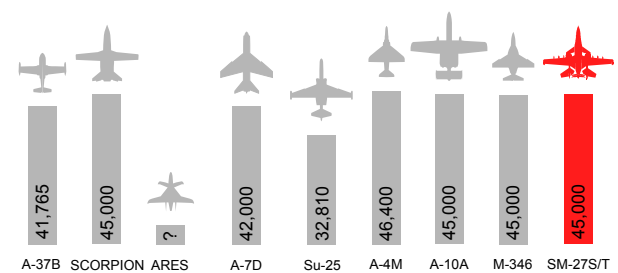
At Sea Level, Standard Day

**Tactical Radius (nm)**

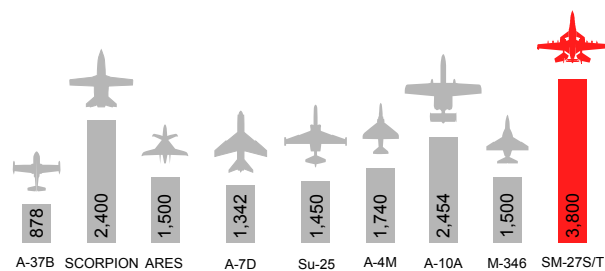
With Maximum Internal Fuel

**Service Ceiling (ft)**

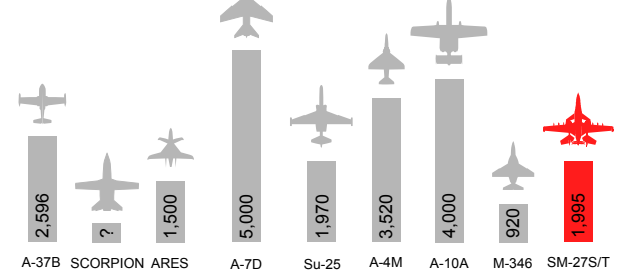
At Maximum Gross Weight

**Maximum Range (nm)**

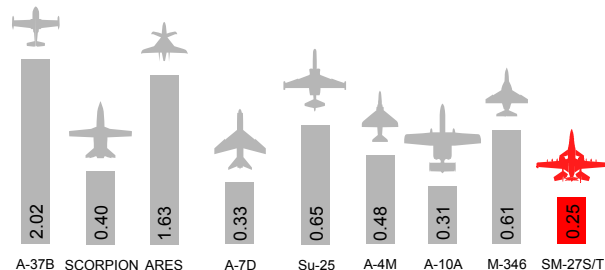
With Maximum Internal + Maximum External Fuel

**Takeoff Distance (ft)**

Over 50 ft Obstacle or as Published

**Relative Fuel Burn Ratio**

Fuel (lbs) to move 1,000 lbs of Warload 1 nm

**Landing Distance (ft)**

Over 50 ft Obstacle or as Published

