



HEAD-2-HEAD COMPARISON



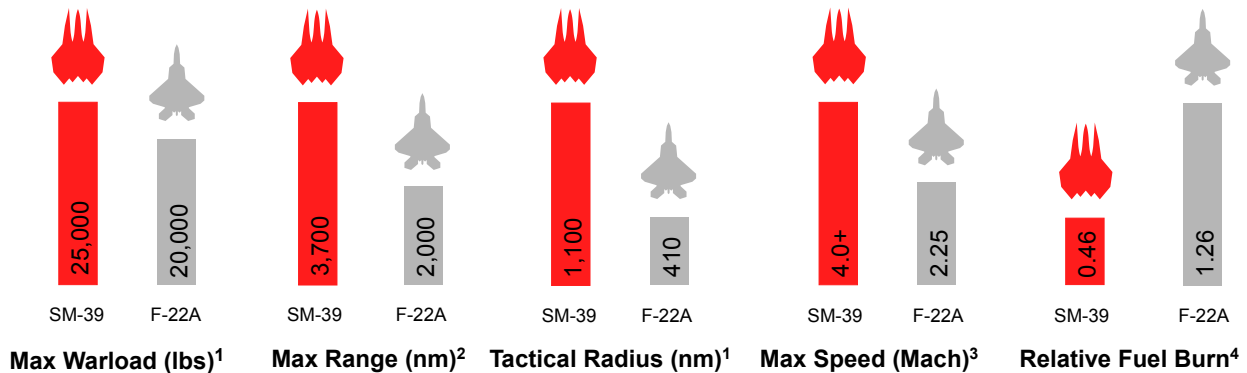
SM-39

Stavatti
 Contact Stavatti
 1
 2 x E1400
 104,800
 54.50
 78.60
 13.67
 1,132
 46,000
 30,000
 23,000
 25,000
 100,000
 12
 Gas Dynamic Laser
 123
 4.00
 75,000
 70,000
 1,100
 2,800
 3,700
 88
 1.05
 7.50
 1,457
 1,985
 0.46
 0.0000250

VS

F-22A

Manufacturer Lockheed Martin
 Year of First Flight 1997
 Flight Crew 1
 Powerplant(s) 2 x F119-PW-100
 Max Thrust (lbs) 70,000
 Span (ft) 44.50
 Length (ft) 62.08
 Height (ft) 16.67
 Wing Area (sq ft) 840
 Empty Weight (lbs) 43,430
 Max Internal Fuel (lbs) 20,649
 Max Fuel Warload (lbs) 19,421
 Max Warload (lbs) 20,000
 MTOW (lbs) 83,500
 Stores Stations 12
 Internal Gun 1 x 20mm M61A2
 Stall Speed @ SL-MTOW (KTAS) 154
 Max Speed @ Altitude (MACH) 2.25
 Max Climb Rate @ SL (ft/min) 60,000
 Service Ceiling (ft) 65,000
 Tactical Radius 410
 Max Range 1,600
 Ferry Range 2,000
 Wing Loading (lbs/sq ft) 99
 Thrust to Weight Ratio 0.84
 Load Limits (g) 9.00
 Takeoff Distance; 50 ft Obstacle (ft) 1,574
 Landing Distance; 50 ft Obstacle (ft) 657
 Fuel to Move 1,000 lb Warload 1 nm (lbs) 1.26
 RCS (Square Meters) 0.000100



1: With Max Internal Fuel 2: With External Fuel 3: Aircraft in Clean Configuration 4: Fuel Consumed (lbs) to move 1,000 lbs of Warload 1 nm