

STAVATTI AEROSPACE LTD

# Cost Per Flight Hour (CPFH)

DATASHEET

# SM-47S Super Machete

NATO/EXPORT Configuration: SM-47S PDC 01



This DATASHEET provides ROM (Rough Order Magnitude) Cost Per Flight Hour (CPFH) and Typical Aircraft Squadron Strength (TASS) projections for the SM-47S aircraft as prepared by Stavatti Aerospace Ltd. CPFH/TASS projections assume aircraft operation within a typical USAF squadron environment, with all cost accounting variables derived from historical USAF operations and readiness statistics. CPFH values will differ for non-USAf operational environments, including all service conducted in NATO/allied air forces. CPFH and TASS projections contained herein are ROM estimates for Long Range Planning (LRP) purposes and are not contractually binding. CPFH values are subject to change based upon FH/PAA, aircrew, fuel, maintenance and additional variable costs.

## SM-47S CPFH: \$3,858

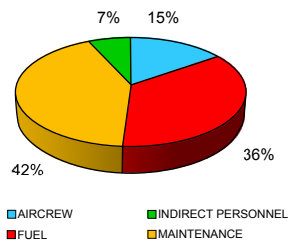
**AIRCRAFT:** SM-47S  
**MISSION:** Air Defense Fighter  
**AIRCREW:** 1 (Single Seat)  
**MMH/FH:** 6.33

**ANNUAL FLIGHT HOURS (FH/PAA):** 350  
**AIRCRAFT PER SQUADRON:** 12  
**CREW RATIO:** 1.5  
**MEAN FUEL CONSUMPTION (GPH):** 346

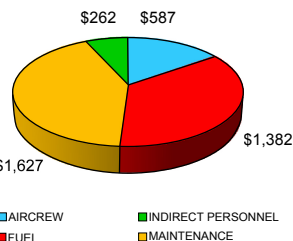
SM-47S Cost Per Flight Hour (CPFH)	
COST ELEMENT	COST
Aircrew:	\$587
Fuel:	\$1,382
Direct Maintenance Personnel:	\$924
Consumable Materials:	\$158
Indirect Support Personnel:	\$262
Spares:	\$323
Depot:	\$223
<b>TOTAL CPFH:</b>	<b>\$3,858</b>

SM-47S Typical Aircraft Squadron Strength (TASS)		
PERSONNEL DESCRIPTION	PER AIRCRAFT	PER SQUADRON
Aircrew:	1	18
Ground Crew & Maintenance:	9	111
Squadron Staff:	1	10
Weapon System Security:	1	15
Base Operations Personnel:	1	12
<b>TOTAL PERSONNEL:</b>	<b>13</b>	<b>166</b>
<b># OF AIRCRAFT:</b>	<b>1</b>	<b>12</b>

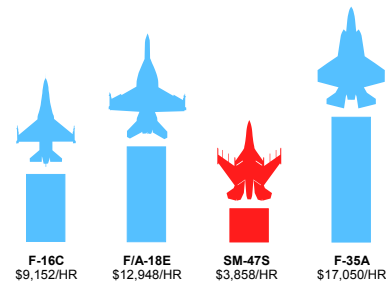
SM-46S  
Cost Per Flight Hour (CPFH) Elements  
By Percentage (%)



SM-46S  
Cost Per Flight Hour (CPFH) Elements  
By USD (\$)



SM-46S  
Cost Per Flight Hour (CPFH) Comparison  
Non-Stavatti CPFH from FMS User Rates; DoD FY 2020 Reimbursable Rates Fixed Wing



**DEFINITIONS & NOTES:**

**AIRCREW:** Assumes Crew Ratio of 1.5 with FH/PAA=350. Aircrew salary assumes pay rate for USAF O-3 (Captain) with 8 years experience and inclusion of Hazardous Duty Pay, Subsistence and Housing Allotments.  
**FUEL:** Assumes a mean fuel consumption of 346 Gallons Per Hour (GPH) of JP-8 per mission Flight Hour (FH) at a cost of \$4.00/Gallon based upon DoD bulk fuel purchase of \$6.95 Billion for 44.45 Million Barrels of JP-8 in 2013 adjusted for inflation and rounded-up to the nearest dollar value for cost normalization purposes.  
**DIRECT MAINTENANCE PERSONNEL:** Assumes a Maintenance Labor Rate of \$100.00/Hour.  
**MMH/FH:** MMH/FH definitions are for Low Rate Initial Production (LRIP) aircraft. Actual MMH/FH may decrease by up to 35% over aircraft operational service life based upon maintenance practices and crew experience.  
**TASS:** TASS values are based upon a hypothetical USAF ACC typical squadron structure as projected by STAVATTI. Actual TASS may vary by +/-50%, particularly when non-DoD service (allied export) squadron and support structures are considered. Actual TASS values are based upon service branch organizational procedures, practices and defense force culture.  
**CPFH PRESENTATION:** CPFH values are presented in a manner to provide greater specificity with regard to elements of aircraft operations costs in support of export sales to NATO/allied air forces which may engage in cost accounting and support practices which differ from those of DoD. CPFH projections include Aircrew Costs, which may be omitted/otherwise considered, in some USAF CPFH models. USAF CPFH cost factors including GSD, SDD and DLR are not individually identified. The projected costs often identified with GSD, SDD and DLR are included within the blanket "MAINTENANCE" category. Contractor Logistical Support (CLS) which may be provided under particular contract arrangements, are not included with all support assumed by dedicated air force personnel. Ground-crew (including aircraft armament crew) is included as an element of MAINTENANCE. All CPFH values presented herein are ROM projections which are subject to alteration and change based upon actual, empirical data to be derived during flight test and initial operations.