

# STAVATTI MILITARY AEROSPACE Cost Per Flight Hour (CPFH)

## DATASHEET

# SM-27L MACHETE™

US DoD/NATO Export Configuration



This DATASHEET provides ROM (Rough Order Magnitude) Cost Per Flight Hour (CPFH) and Typical Aircraft Squadron Strength (TASS) projections for the SM-27L MACHETE aircraft as prepared by STAVATTI MILITARY AEROSPACE. 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-27L CPFH: \$3,071 (2008 USD)

**AIRCRAFT:** SM-27J TURBOFAN MACHETE™  
**MISSION:** COIN/CAS/FAC/AT  
**AIRCREW:** 2 (Two Seat Tandem)  
**MMH/FH:** 5.10

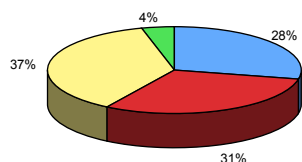
**ANNUAL FLIGHT HOURS (FH/PAA):** 400  
**AIRCRAFT PER SQUADRON:** 12  
**CREW RATIO:** 1.5  
**MEAN FUEL CONSUMPTION (GPH):** 395

| SM-27L TURBOFAN MACHETE™<br>Cost Per Flight Hour (CPFH) |                |
|---|----------------|
| COST ELEMENT  | COST           |
| Aircrew:  | \$866          |
| Fuel:   | \$940          |
| Direct Maintenance Personnel:                           | \$633          |
| Consumable Materials:                                   | \$77           |
| Indirect Support Personnel:                             | \$130          |
| Spares:   | \$252          |
| Depot:  | \$174          |
| <b>TOTAL CPFH:</b>                                      | <b>\$3,071</b> |

CPFH Values are in 2008 USD

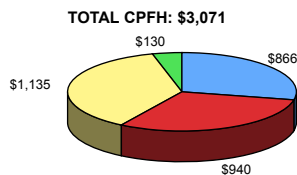
| SM-27L TURBOFAN MACHETE™<br>Typical Aircraft Squadron Strength (TASS) |              |              |
|---|--------------|--------------|
| PERSONNEL DESCRIPTION   | PER AIRCRAFT | PER SQUADRON |
| Aircrew:  | 3            | 36           |
| Ground Crew & Maintenance:  | 7            | 89           |
| Squadron Staff:   | 1            | 9            |
| Weapon System Security:   | 1            | 6            |
| Base Operations Personnel:  | 1            | 11           |
| <b>TOTAL PERSONNEL:</b>   | <b>13</b>    | <b>151</b>   |
| <b># OF AIRCRAFT:</b>   | <b>1</b>     | <b>12</b>    |

SM-27L MACHETE™  
Cost Per Flight Hour (CPFH) Elements by Percentage



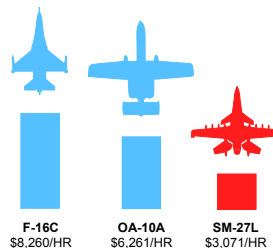
■ AIRCREW ■ INDIRECT PERSONNEL  
 ■ FUEL ■ MAINTENANCE

SM-27L MACHETE™  
Cost Per Flight Hour (CPFH) Elements by USD (2008)



■ AIRCREW ■ INDIRECT PERSONNEL  
 ■ FUEL ■ MAINTENANCE

SM-27L TURBOFAN MACHETE™  
Cost Per Flight Hour (CPFH) Comparison  
Non-Stavatti CPFH From Aircraft Reimbursable Rates Per Flying Hour, October 2008



### DEFINITIONS & NOTES:

**AIRCREW:** Assumes Crew Ratio of 1.5 with FH/PAA=400. Aircrew salary assumes pay rate for USAF O-3 (Captain) with 8 years experience and 132 Flight Hours Per Year.

**FUEL:** Assumes a mean fuel consumption of 395 Gallons Per Hour (GPH) of JP-8 per mission Flight Hour (FH) at a cost of \$100/Barrel or \$2.38 per gallon.

**DIRECT MAINTENANCE PERSONNEL:** Assumes a Maintenance Labor Rate of \$85.00/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.

# STAVATTI™