

# SPACECAD • DATA SHEET

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## GENERAL ROCKET DATA

Rocket name: SWT Pijl Printed on 27-11-2004  
Rocket file: F:\SWT Rockets\Pijl\Pijl.roc  
Created by: SWT Rocketry - Henk Siewert (<http://www.raket.org>)  
Cd-value: 0,75

### WEIGHT

Launch weight: 31,67 g  
Empty weight: 17,87 g

### ENGINE CONFIGURATION

Stage 1  
Engines: 1 \* Estes 1/2A6 (13,80 g)  
Stage 2 n/a  
Stage 3 n/a

## SPACECAD FLIGHT PREDICTION RESULTS

Max. height: 48,42 m  
Max. velocity: 35,06 m/s  
Max. acceleration: 250,38 m/s<sup>2</sup>  
Best delay: 2,82 s  
Min. launch rod length: 621,83 mm

### BURNOUT ALTITUDES

Stage 1 at 4,82 m

### PARACHUTE

For a descent flight of 3,00 m/s the best parachute diameter is 250,00 mm.  
For a cutout parachute use a diameter of 312,50 mm.

## SPACECAD STABILITY RESULTS

Center Of Pressure (CP) : 246,36 mm behind nose cone  
Center Of Gravity (CG) : 206,96 mm behind nose cone

Rocket is stable (1,59 calibers)

### PER-STAGE STABILITY

n/a

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