

# JAaMDG P140/P141 User Manual

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The Scaled Composites Model 339 SpaceShipTwo is an air-launched suborbital spaceplane type designed for space tourism. It is manufactured by The Spaceship Company, a California-based company owned by Virgin Galactic.

## **Aircraft Available**

- Scaled 339 "SPACESHIPTWO"
- Scaled 348 "WHITEKNIGHTTWO"

## **SpaceShipTwo**

Spoilers

Gear

Brakes

## **V-Speeds**

- VR Rotation Speed: N/A
- VREF Landing Speed: 175Kn
- VLO Landing Gear Speed: 250Kn
- VS Stall Speed: 140Kn

## **Cruise Manual**

- Cruise speed: 3333Kn (Mach 5)
- Cruise Altitude: 130,000ft/FL 1300

## **Orbital Manual**

- Cruise speed: Mach 22

## **Aircraft Maximum Limits**

- Maximum Speed: Mach 76
- Maximum Crosswind Limit (DRY): 15Kn Crosswind

## **Landing**

- Spoilers BEFORE touchdown.
- Speed: 200Kn to 250Kn are recommended.

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# **WhiteKnightTwo**

Spoilers  
Gear  
Brakes  
X-Function

## **V-Speeds**

- VR Rotation Speed: 150Kn

- VREF Landing Speed: 150Kn
- VLO Landing Gear Speed: 180Kn
- VS Stall Speed: 120Kn

## **Cruise Manual**

- Cruise speed: 400Kn (Mach 0.6)
- Cruise Altitude: 70,000ft/FL 700

## **Aircraft Maximum Limits**

- Maximum Range: 2,065 Miles (1974 Nautical Miles)
- Maximum Speed: 275Kn (Mach 0.41)
- Maximum Takeoff Weight: 80,500kg
- Maximum Landing Weight: 50,000kg
- Maximum Crosswind Limit (DRY): 35Kn Crosswind

## **Takeoff**

- Speed: 150Kn to 175Kn are recommended.

## **Landing**

- Speed: 130Kn to 165Kn are recommended.

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