

# U.S. Air Force launches reusable space plane

After a decade of development, the U.S. Air Force has launched a prototype space plane which could serve as a potential space shuttle replacement. The robotic *X-37B Orbital Test Vehicle* was launched by rocket to conduct technology tests in orbit before gliding back to Earth

## Propulsion

Liquid-fuelled rocket engine for orbital manoeuvres

## Payload bay

Unpressurized area similar in size to pickup truck bed. Deployable solar panels provide power in orbit

## Guidance

Onboard GPS navigation and flight control. Autonomous re-entry and landing sequence

Twin angled tail fins

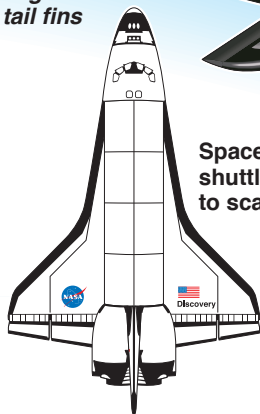
Space shuttle to scale

## Thermal protection

Heat-resistant ceramic tiles shield craft from intense heat of re-entry

## X-37B SPECIFICATIONS

Length	8.38 metres
Wingspan	4.6 metres
Launch weight	5 tonnes
Operating altitude	200-925km
Re-entry speed	Mach 25
Time in orbit	Up to 270 days



X-37B

