



Introducing Virgin Galactic's second generation of spacecraft. Bigger, faster, safer and more environmentally responsible; meet Virgin Galactic's new spaceship and carrier aircraft, SpaceShipTwo (SS2) and VirginMotherShip Eve (VMS Eve). Test flights are underway in 2008, prior to the start of a regular scheduled service. Visit [www.virgingalactic.com](http://www.virgingalactic.com) to book your place!



Sir Richard Branson proudly displays a fully liveried scale model of SS2 and its new carrier aircraft 'Eve'.



Many of Virgin Galactic's first customers have already begun preparing for their trip to space. The NASTAR centrifuge in Philadelphia is one of the most sophisticated machines of its type and has been specifically adapted to simulate both the cabin environment and the G-Force profile of SS2.

**Prototype and concept demonstrator**  
WhiteKnight (WK) and SpaceShipOne (SS1)  
Wingspan: 82ft / 25m  
SS1 cabin volume: 117 cubic feet  
WK ferry range: ~1,500 nautical miles  
WK / engine thrust: 3,850 lbf per engine  
(total installed X2 = 7,700 lbf).

**Virgin Galactic's commercial vehicles**  
VirginMotherShip Eve (VMS Eve) and SpaceShipTwo (SS2)  
Wingspan: 140ft / 42.7m  
SS2 cabin volume: 450 cubic feet  
VMS Eve ferry range: ~3,000 nautical miles  
VMS Eve / engine thrust: 6,900 lbf  
(total installed X4 = 27,600 lbf)  
VMS Eve's engines mounted under the wing for easy access during maintenance.

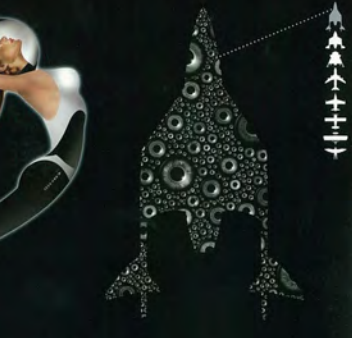


**VMS Eve & SS2 design philosophy**  
100% Carbon Fibre Composite construction – incredibly light, resilient and strong, as well as energy efficient and fully reusable.  
Dual pilot operation – vehicle critical systems have back ups, including the human element.  
SS2 feathering re-entry – allows for a carefree and heat free re-entry, which relies on gravity and aerodynamics, not precise computer or pilot control.  
Air launch – far more environmentally friendly and safe than a ground launch system.  
Simple – the design is inherently simple, avoiding complexity increases safety.

**Experience led design**  
All the cabins are approximately 4ft from the ground for easy access and egress.  
VMS Eve has the same cabins as SS2 which simplifies construction, but most importantly means training can be undertaken in VMS Eve prior to the space flight.  
VMS Eve has been built to an incredible level of strength and can handle the same g-loads as SS2 for space flight experience and training.  
The three cabins of VMS Eve and SS2 are aligned to allow the passengers and pilots inside to see each other during the climb to launch altitude.



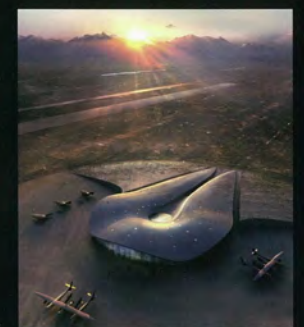
**Galactic Girl**  
With the unveiling of Virgin Galactic's new spaceship system in New York, came the revealing of the beautiful new Philippe Starck inspired aircraft and spaceship livery. To the surprise and delight of his mother, Eve, Richard Branson announced that not only would the first carrier aircraft be named in her honour, but that the "Galactic Girl" figurehead who will feature prominently on all Virgin Galactic vehicles, was based on photographs of Eve as a young woman. As Richard said: "If you're going to build a mothership, it's only right that you should name it after your mother!"



**SpaceShipTwo with Irises**  
The newly designed SS2 livery combines Virgin Galactic's logo (iris) with its DNA of flight. The silhouette of SS2 that now spearheads the DNA is formed from images of irises belonging to the group of people responsible for making Virgin Galactic a reality – including our first customers. This will be a lasting recognition of the importance, as well as the extraordinary vision and commitment, of these pioneering future astronauts.

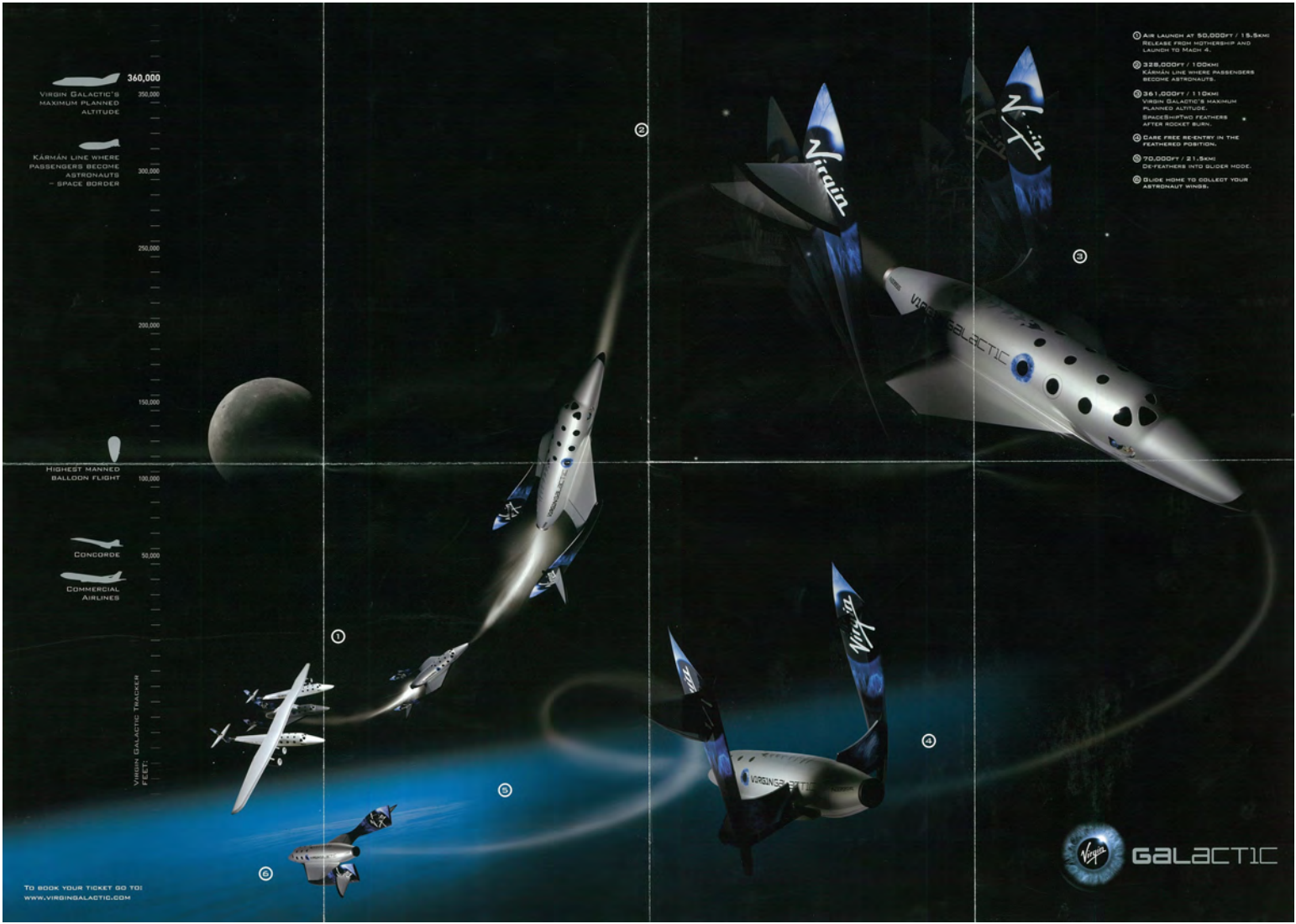


**The view from the inside**  
Burt Rutan shows off SS2's incredibly spacious cabin which will have more room for each astronaut than any manned spaceship in history. Understanding the importance of looking back on earth to all those that will take the journey, special efforts have gone into providing plenty of windows which at a diameter of 17" are much larger than those found on commercial aircraft and will allow unrestricted views.



**Spaceport America**  
Architects Foster and Partners' initial designs for Spaceport America in New Mexico from where Virgin Galactic will operate. By tapping into the minds of some of the world's best building designers and by making full use of emerging technologies, the Spaceport will not only be a landmark to a new era of space travel, but will embody environmental best practice in its minimal levels of embedded carbon, the use of renewable energy and in its overall harmony with the natural landscape.





360,000  
 VIRGIN GALACTIC'S  
 MAXIMUM PLANNED  
 ALTITUDE

KÁRMÁN LINE WHERE  
 PASSENGERS BECOME  
 ASTRONAUTS  
 - SPACE BORDER

HIGHEST MANNED  
 BALLOON FLIGHT

CONCORDE  
 COMMERCIAL  
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 BECOME ASTRONAUTS.
- ③ 361,000FT / 110KM  
 VIRGIN GALACTIC'S MAXIMUM  
 PLANNED ALTITUDE.  
 SPACE SHUTTLE FEATHERS  
 AFTER ROCKET BURN.
- ④ CASE FREE REENTRY IN THE  
 FEATHERED POSITION.
- ⑤ 70,000FT / 21.5KM  
 DEFEATHERS INTO SLIDER MODE.
- ⑥ BLUE HOME TO COLLECT YOUR  
 ASTRONAUT WINGS.

 GALACTIC