

X PRIZE Team Launch System Descriptions

#	Team	1st Stage Desc.	1st Stage Propulsion	1st Stage Take-Off Method	2nd Stage Desc.	2nd Stage Propulsion	2nd Stage Take-Off Method	Landing Method
1	Advent Launch Services	Rocket	One Liquid Rocket Engine	Vertical from water	None	None	None	Unpowered horizontal on water
2	American Astronautics Corp.	Rocket	One Liquid Rocket Engine, 3 Hybrid Boosters	Vertical from ground	Crew Capsule	None	None	Unpowered parachute vertical descent
3	ARCA	Rocket	One Liquid Rocket Engine	Vertical from land	None	None	None	Unpowered parachute vertical descent
4	Armadillo Aerospace	Rocket	Multiple Liquid Rocket Engines	Vertical from land	None	None	None	Unpowered parachute vertical descent with crushable nosecone
5	Acceleration Engineering	Rocket	Multiple Liquid Rocket Engines	Vertical from land	None	None	None	Unpowered parafoil on land
6	Bristol Space Planes	Space Plane	Jet Engines	Horizontal from land	Same Space Plane	Liquid Rocket Engines	From air	Powered horizontal on land
7	Canadian Arrow	Rocket	One Liquid Rocket Engine	Vertical from land	Crew Capsule	Multiple Solid Rocket Engines	Vertical from air	Unpowered parachute vertical on water
8	da Vinci Project	Helium Balloon	Buoyancy	Vertical from ground	Rocket	Multiple Liquid Rocket Engines	From air	Unpowered parafoil horizontal on land
9	De León Technologies	Rocket	Multiple Hybrid Rocket Engines	Vertical from land	None	None	None	Unpowered parachute vertical on water
10	Discraft Corp.	Saucer	Blast-Wave Pulse Jets	Horizontal from land	None	None	None	Powered horizontal on land
11	Flight Exploration	Rocket	Liquid Rocket Engines	Vertical from land	Not disclosed	Not Disclosed	Vertical from land	Unpowered parachute vertical
12	Fundamental Technology Systems	Space Plane	One Liquid Rocket Engine	Horizontal from land	None	None	None	Unpowered horizontal on land
13	IL Aerospace Technologies	Helium Balloon	Buoyancy	Vertical from ground	Rocket	One Liquid Rocket Engine	From air	Unpowered parachute vertical on land
14	Interorbital Systems	Space Plane	Liquid Rocket Engines	Vertical from ground	None	None	None	Unpowered horizontal
15	Kelly Space & Technology	Tow Aircraft	Jet Engines	Horizontal from land	Lifting Body	Rocket	From air	Unpowered horizontal on land
16	Lone Star Space Access	Space Plane	Jet Engines	Horizontal from land	Same Space Plane	Liquid Rocket Engines	From air	Powered horizontal on land
17	Micro-Space, Inc.	Rocket	Multiple Liquid Rocket Engines	Vertical from ground	None	None	None	Unpowered parachute vertical descent
18	PanAero, Inc.	Space Plane	Jet Engines	Horizontal from land	Same Space Plane	Multiple Liquid Rocket Engines	From air	Powered horizontal on land
19	Pioneer Rocketplane	Space Plane	Jet Engines	Horizontal from land	Same Space Plane	Liquid Rocket Engines	None	Powered horizontal on land
20	Scaled Composites, LLC	Carrier Aircraft	Carrier Aircraft	Horizontal from land	Rocket	One Hybrid Rocket Engine	From air	Unpowered horizontal on land
21	Starchaser Industries Ltd.	Rocket	Multiple Hybrid Rocket Engines	Vertical from land	Rocket	One Hybrid Rocket Engine	From air	Unpowered parafoil horizontal on land
22	Suborbital Corp.	Carrier Aircraft	Jet Engines	Horizontal from land	Space Plane	One Solid Rocket Engine	From air	Unpowered horizontal on land
23	TGV Rockets, Inc.	Rocket	Multiple Liquid Rocket Engines	Vertical from land	None	None	None	Powered vertical on land
24	Vanguard Spacecraft	Rocket	Liquid and Solid Rocket Engines	Vertical from land	Rocket	Not Disclosed	From air	Unpowered parachute vertical descent