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~~Conversation: SpaceX's~~

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System! LIVE The world's  
first reusable rocket Will  
the Falcon 9 actually be  
reusable or just refurbish-  
able like the Space Shuttle?

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Reusable launch vehicles are

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reduction through various benefits including increased reliability, incremental testing and maintenance, operations and materials savings. Much work has been conducted worldwide in reusable launch vehicle

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Vehicles [2,3,4]. Performance

comparison requires that  
design and

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testing and maintenance,  
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comparison requires that



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optimal vehicle type payload

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high speed flight path angle  
orbiter model sled mechanism  
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marginal positive payload  
performance launcher initial  
mass performance perspective  
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result parameterised generic  
launch vehicle design

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This study investigated the performance of five Two-Stage-To-Orbit reusable launch vehicles (RLV), with stages propelled by rocket engines, turbojet engines

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Vehicles  
and Rocket Based Combined  
Cycle (RBCC) ...

Performance Study of Two-  
Stage-To-Orbit Reusable  
Launch ...

Introduction. The Ambu ®  
aScope™ (Ambu, Ballerup,

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Denmark) is a single-use  
videoscope for fiberoptic  
intubation that entered  
anaesthetic practice in  
~2010. The first randomised  
trial comparing the Ambu  
aScope with a re-usable  
video-fibrescope in patients



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with predicted difficult  
intubation reported few  
differences in performance,  
except for patients with  
acutely compromised airways  
1.

Cost comparison of re-usable

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Horizontal Launch and

Landing, Single-Stage-To-

Orbit Launcher; AIAA Paper

93-5053, November 1993; H-L

Weinreich, H.Grallen,

R.Parkinson, W.Berry

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Synthesis Report for Study  
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Performance and technical  
feasibility comparison of  
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Reusable first stages in

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Vehicles  
Combination with expendable  
upper stages are a first  
step towards fully reusable  
launch vehicles. The goal of  
the present study is to  
analyze and compare reusable  
first stage concepts and  
their respective return

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Options in terms of both  
feasibility and payload  
performance. While this  
paper deals with stage

Comparison of Return Options  
for Reusable First Stages  
Performance Comparison of

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RBCC- and TBCC-based  
Reusable Launch Vehicles  
with Enhancing Technologies.  
George Culver; 39th  
AIAA/ASME/SAE/ASEE Joint  
Propulsion Conference and  
Exhibit June 2012. Research  
on TSTO Reusable Launch

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Vehicles  
Vehicle (RLV) Powered by  
Turbo-aided RBCC Engine.

Comparison Study of RBCC  
Powered Suborbital Reusable

...

The paper presents a  
synthesis of the performance



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Of Reusable Launch Vehicles  
and technical feasibility  
assessment of 7 reusable  
launcher types, comprising  
13 different vehicles,  
studied by European Industry  
for ESA in the ESA Winged  
Launcher Study in the period  
January 1988 to May 1994.

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The vehicles comprised  
single-stage-to-orbit (SSTO)  
and two-stage-to-orbit  
(TSTO) vehicles, propelled  
by either air-  
breathing/rocket ...

Performance and technical

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Although most endoscopists believe reusable forceps are less expensive, this is not always the case when reprocessing costs are added to purchase price. Our study

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compared the performance,  
safety and cost of  
disposable versus reusable  
biopsy forceps. Performance.  
Disposable biopsy forceps  
were superior to reusable  
forceps in all categories  
assessed.

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Stappert, Sven und Wilken, Jascha und Bussler, Leonid und Sippel, Martin (2019) A Systematic Assessment and

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International Astronautical  
Congress, IAC. 70th  
International Astronautical  
Congress, 21.10. -  
25.10.2019, Washington DC,

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A Systematic Assessment and  
Comparison of Reusable First

...

A few companies are  
developing reusable launch  
systems intended to cut

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costs. A reusable launch vehicle, such as the SpaceX Falcon 9 first-stage booster, may be flown in “expendable configuration” to increase performance, although this is unusual. The now-retired Space



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Shuttle was one of the  
earliest RLVs.

The history of reusable  
launch systems - Space Legal  
Issues  
Reusable launch systems have  
the highest development

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Vehicles  
costs and technical risks,  
but the technology is within  
current state of the art.

Current efforts to  
economically recover and  
reuse launch vehicle  
elements are more promising  
than they have ever been. A

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Vehicles  
reusable system has  
extremely low direct  
operating costs.

Reusable launch vehicle -  
SlideShare

The reusable Falcon 9's  
performance to GTO is listed

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at 5,500 kilograms. The same rocket in fully expendable version can lift 50 percent more payload – 8,300 kilograms. For the Falcon Heavy, the...

SpaceX's new price chart

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illustrates performance cost of reusable launch vehicles

The Falcon Heavy rocket, with reusable side boosters, costs \$90 million. For a fully expendable variant of the rocket, which can lift a theoretical maximum of 64

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