



# STARSHIP

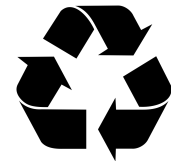
MOON, MARS, AND BEYOND

Presented By : Lucas FREUND

# Agenda

- **Starship's Ambitions**
- **Capabilities of the Starship**
- **Main achievements and next steps**

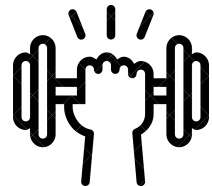
# Ambitions of Starship



**Fully reusable**



**Transport of crew and cargo**



**Powerful launch vehicle**



**Conquer Mars**

# STARSHIP OVERVIEW

HEIGHT	120 m / 394 ft
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DIAMETER	9 m / 30 ft
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PAYLOAD CAPACITY	100 – 250 t (orbit dependent)
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**Starship  
Spacecraft**

**Super Heavy  
Rocket**

# SUPER HEAVY Rocket

HEIGHT 69 m / 230 ft

DIAMETER 9 m / 30 ft

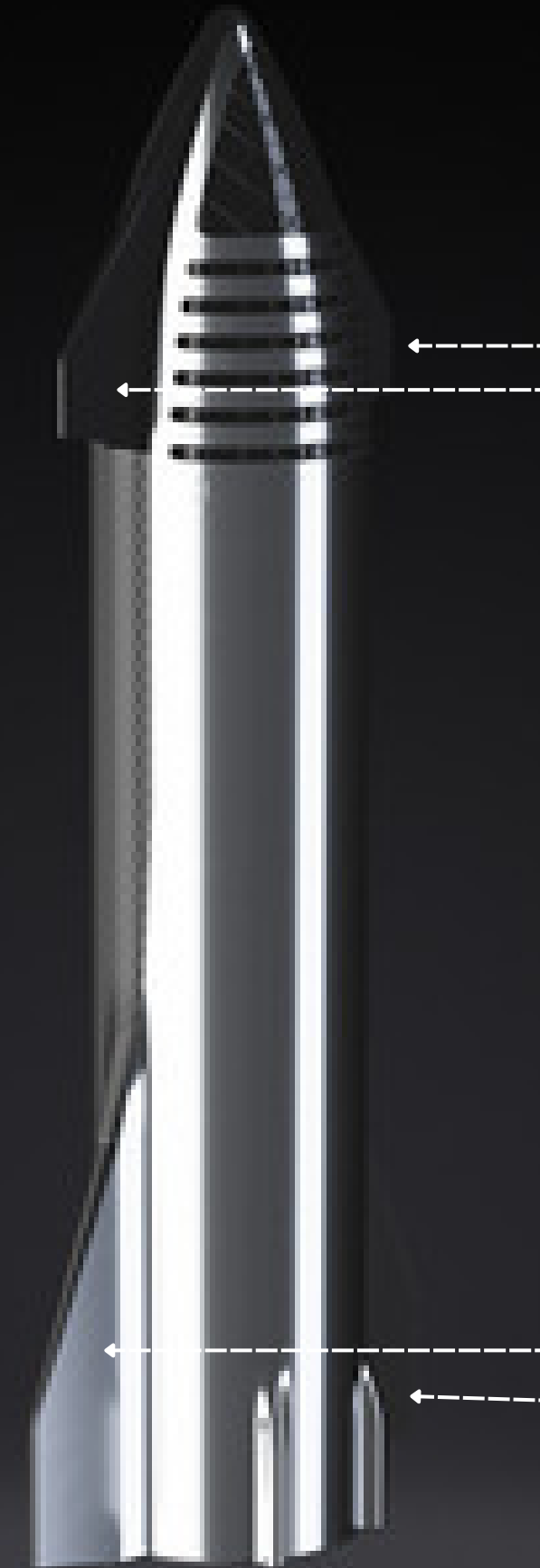
PROPELLANT CAPACITY 3400 t

THRUST 74,4 meganewton



# STARSHIP Spacecraft

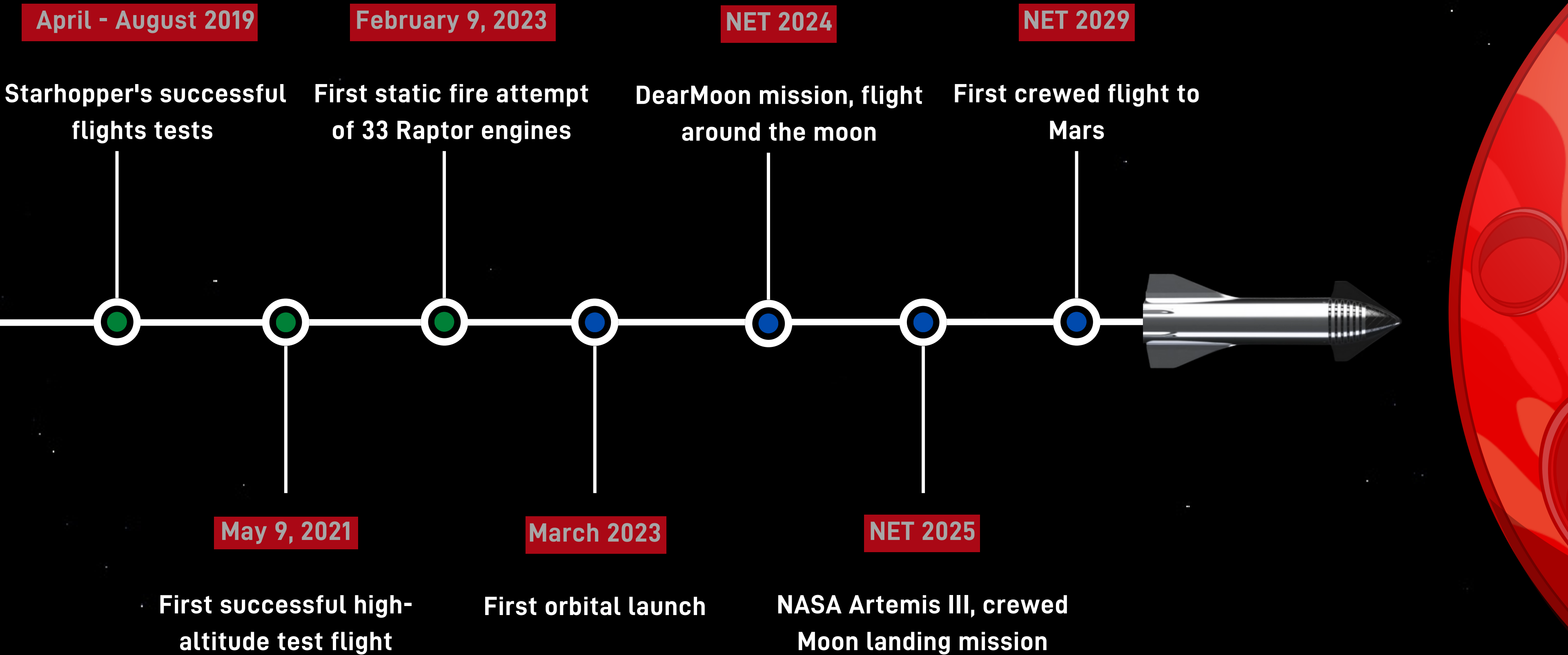
HEIGHT	50 m / 164 ft
DIAMETER	9 m / 30 ft
PAYLOAD CAPACITY	100 – 250 t (orbit dependent)
PROPELLANT CAPACITY	1200 t
THRUST	14,7 meganewtons
Crew and passenger	up to 100 people



Heat shield

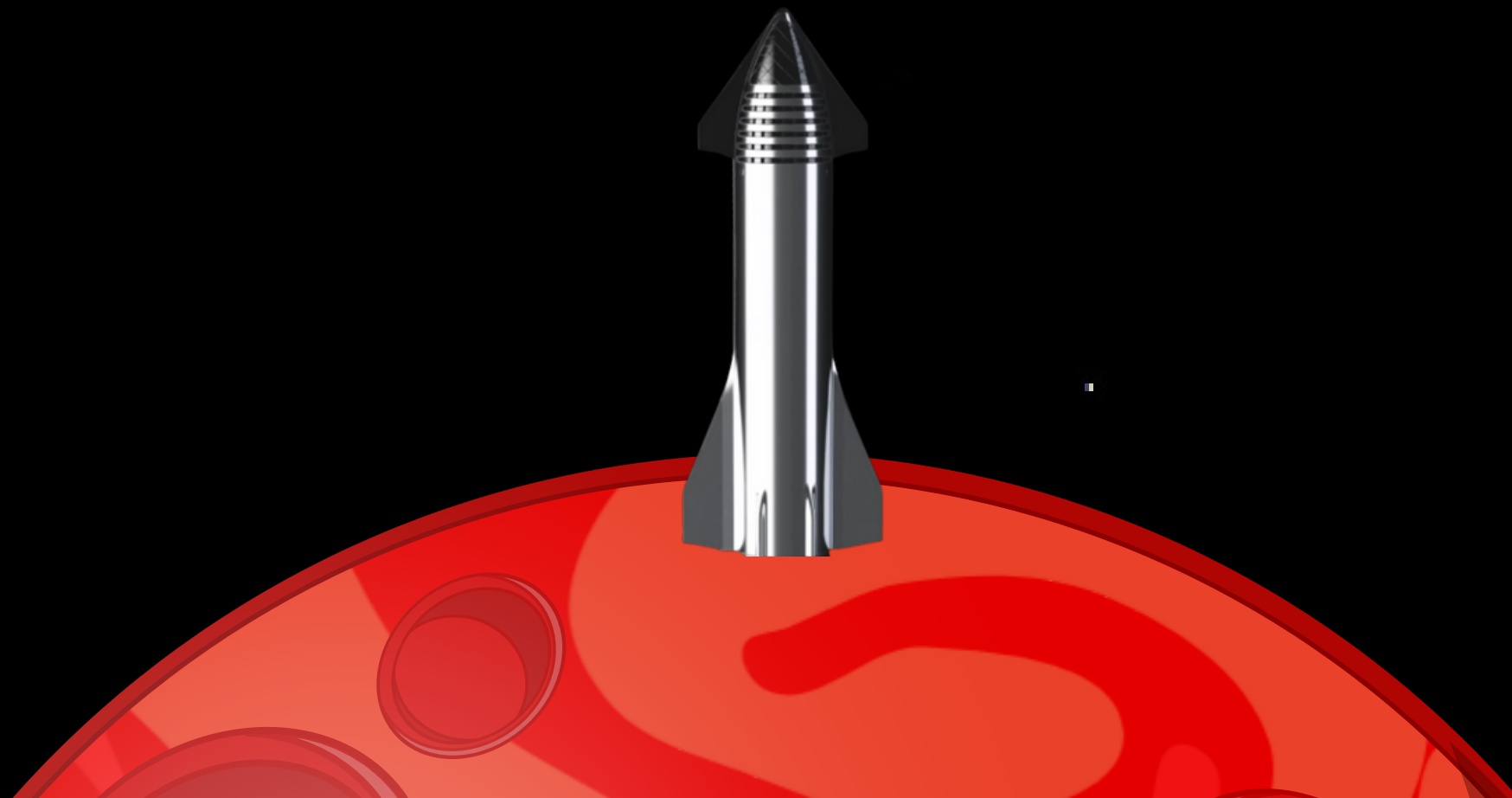
stabilization flaps

# Main Achievements and Next steps



NET : Not Earlier Than

# Starship, one step closer to Mars





# Starship, the Swiss army knife



**SPACEX**



# **Thank you for your attention!**

**Please feel free to ask questions**

## **Bibliography :**

**spacex.com**

**nasa.gov**

**starshipgazer.com (images)**

**Wikipedia en/fr (Starship article)**

**[https://en.wikipedia.org/wiki/SpaceX\\_Starship](https://en.wikipedia.org/wiki/SpaceX_Starship) and [https://fr.wikipedia.org/wiki/Starship\\_\(fusée\)](https://fr.wikipedia.org/wiki/Starship_(fusée))**

**Twitter (Elon Musk/SpaceX)**

**<https://twitter.com/SpaceX> and <https://twitter.com/elonmusk>**

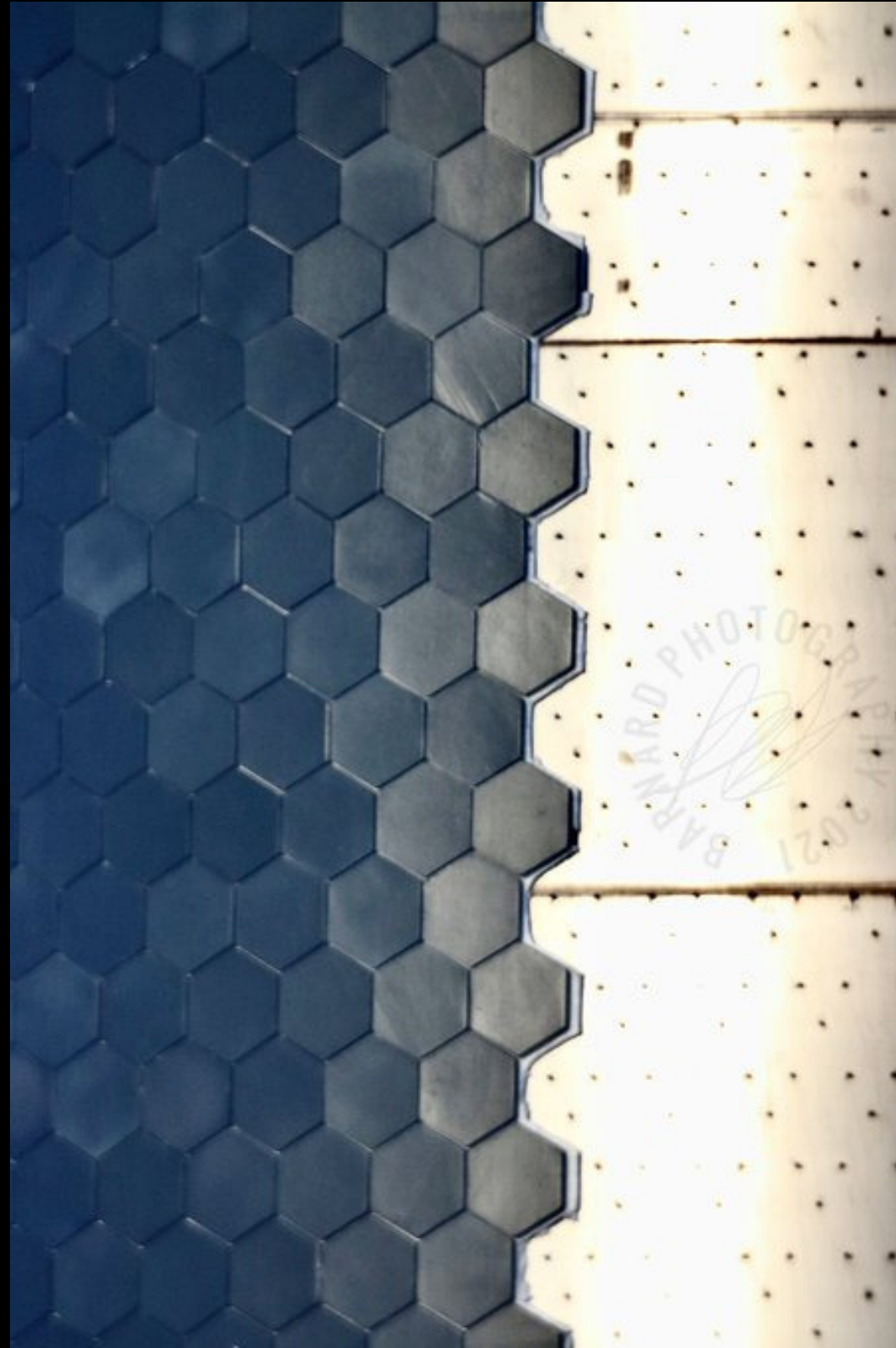
**Book : "Enquête sur Elon Musk, l'homme qui défie la science"**

**(Alisio edition, Olivier Lascar, 2022)**

**<https://www.amazon.fr/Enquête-Elon-lhomme-défie-science/dp/2379352801>**

# Heat shield

Protect up  
to 1400 °C

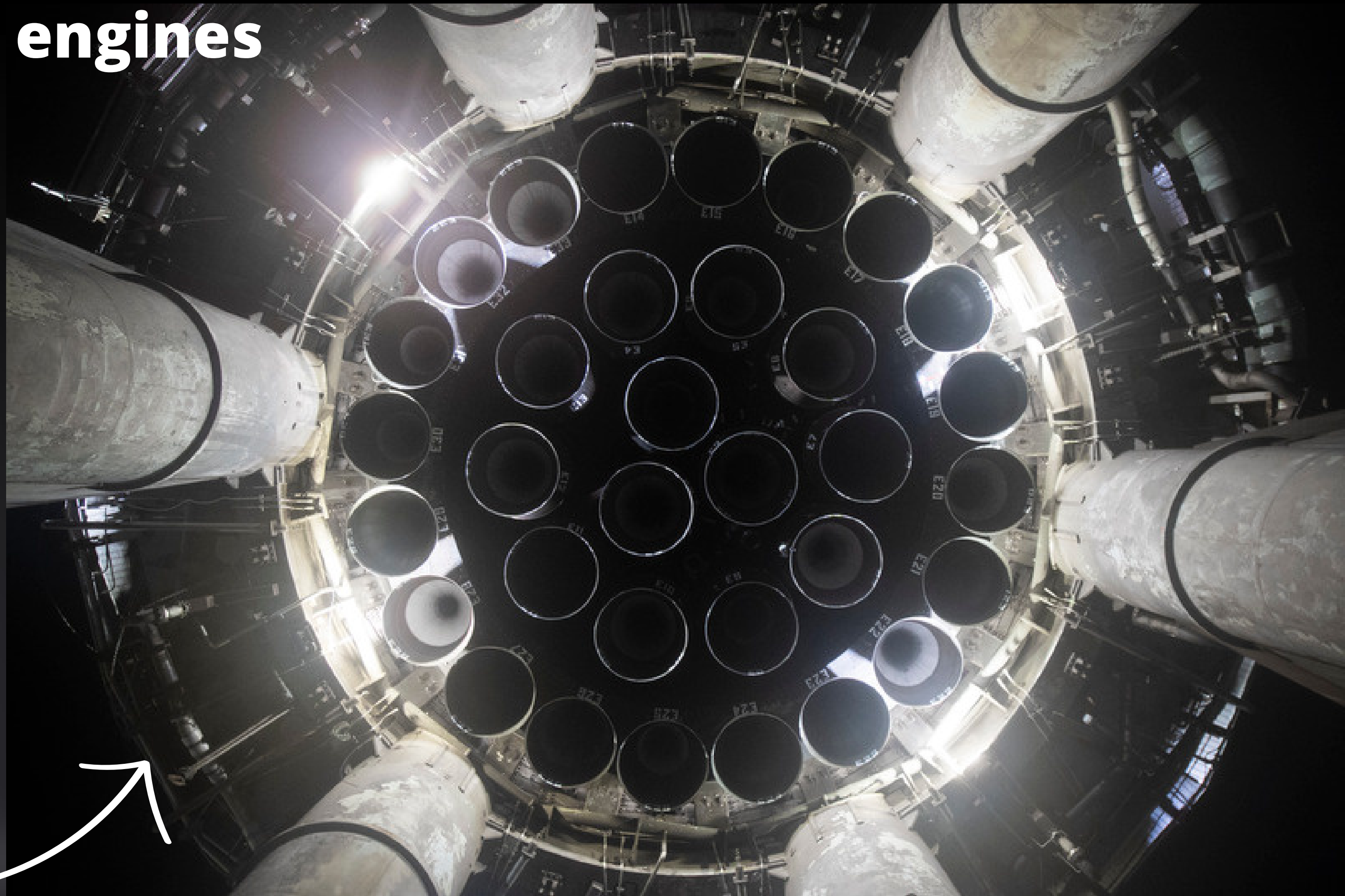
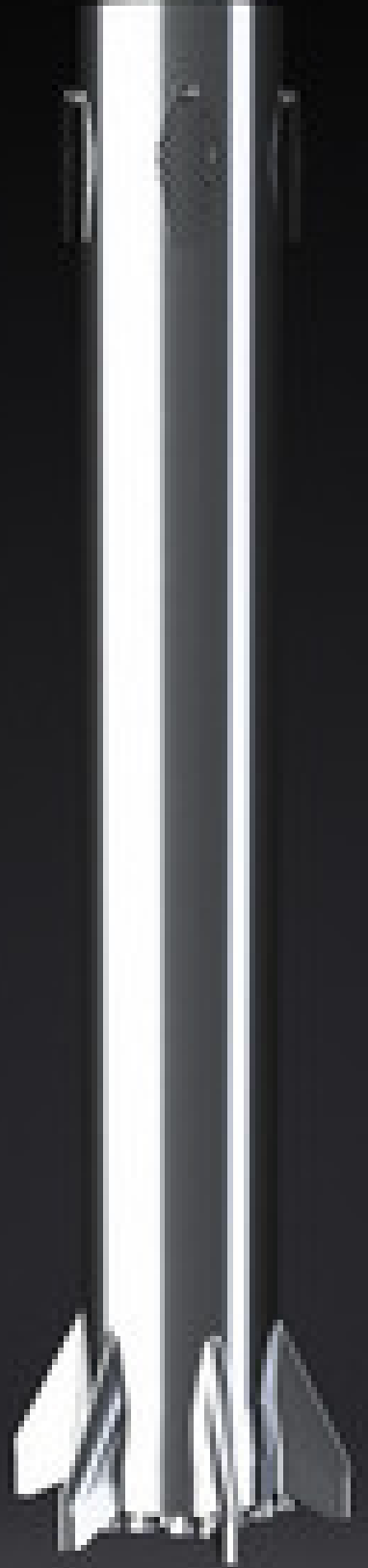


BACK ◀





# 33 Raptor engines





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