Falcon 9

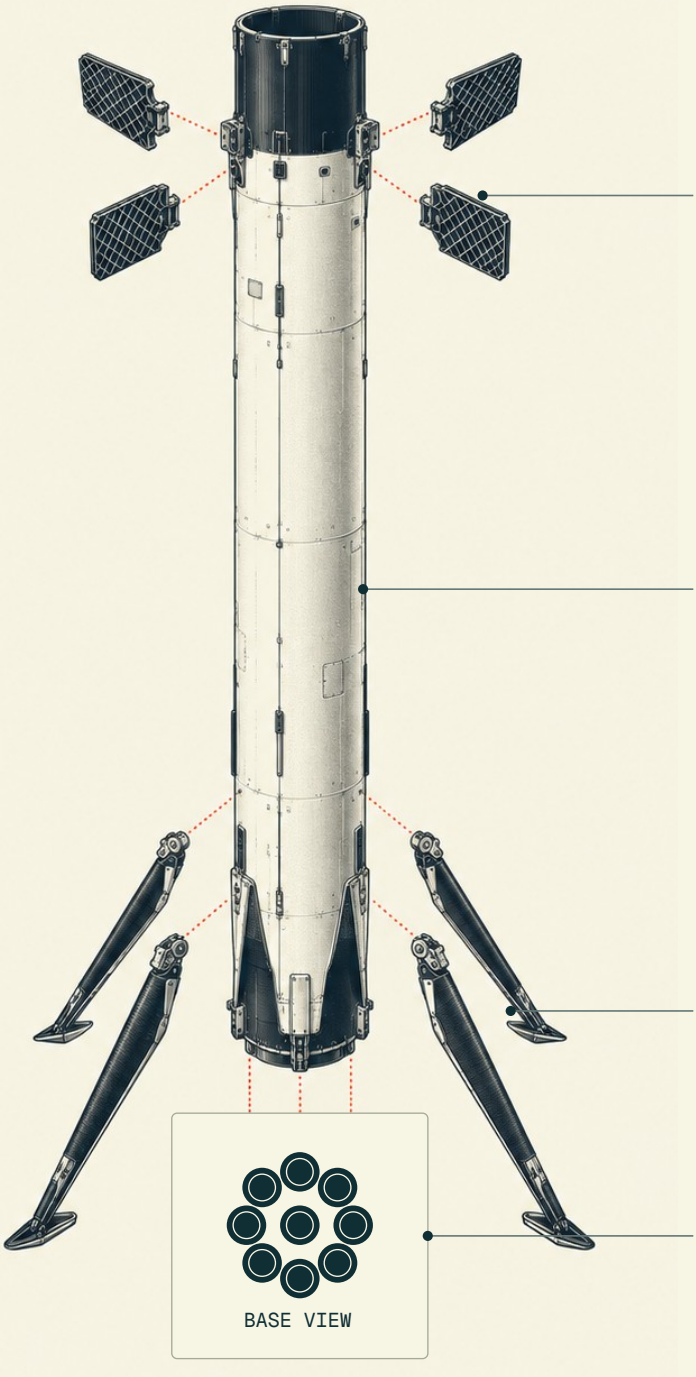
FIRST-STAGE RECOVERY

70 m
FULL VEHICLE HEIGHT

3.7 m
VEHICLE DIAMETER

9
FIRST-STAGE ENGINES

FIG. 01 / EXPLODED CONCEPT STUDY NOT TO SCALE



1 **Grid fins**
Four lattice fins steer the booster through the atmosphere.

2 **Booster body**
The tanks supply liquid oxygen and RP-1 kerosene to the engines.

3 **Landing legs**
Four legs unfold before touchdown to support the booster.

4 **Merlin engines**
Nine engines power ascent. Engine burns slow the booster on return.

08 APR 2016 CRS-8 made the first successful Falcon 9 landing at sea.

Sources SpaceX NASA