

Specifications of SpaceX Dragon 2 Modelling and Analysis Lab

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This document is a summary of specifications of the SpaceX Dragon 2 module. This data would be used to study, model and analyse the A-Frame Crane used by SpaceX as a case study as a part of the Modelling and Analysis Lab.

1. DRAGON 2 SPECIFICATIONS

The specifications of SpaceX Dragon 2 are listed in Tab. I [1]:

TABLE I: SpaceX Dragon 2 Specifications

Height	8.1m
Diameter	4m
Trunk Volume	37m ³
Capsule Volume	9.3m ³
Sidewall Angle	15°
Dry Mass	9,525kg

The Go-Navigator with an A-Frame mounted on it was used for the retrieval of the Dragon 2 module. The Go-Navigator has a width of 11 m [2]. This width would be a constraint for the designing of the A-Frame Crane. Fig.1 shows the Dragon 2 Module [3]. The bottom portion is referred to as the trunk and the upper portion as the capsule. Their specifications are included in the Tab. I.



FIG. 1: SpaceX Dragon 2

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- [1] https://en.wikipedia.org/wiki/SpaceX_Dragon_2
 - [2] <https://spacexfleet.com/go-navigator>
 - [3] <http://axmpaperspacescalemodels.com/index.php/falcon-9/product/Crew\%20Dragon\%202\%20DM1/>