

## Study of the Boeing C17 Globemaster III structure and reproduction of a 1:50 scale model: BUDGET

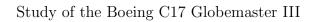
10 de junio de 2019

Final Degree Project

Grau en Enginyeria de Vehicles Aerospacials

Student: Daniel Longarón Yanes

Director: Oriol Lordan Gonzalez





## Contents

1 Analysis of the budget

3



## 1 Analysis of the budget

In this document, the budget regarding the final degree project: Study of the Boeing C17 Globemaster III structure and reproduction of a 1:50 scale model will be presented and analysed.

The next two tables will indicate the individual prices of the features regarding the scale model and the inverted hours to achive the result:

Element	Price
Software: SolidWorks	UPC's student license
Wooden pieces	140 €
Glue	6 x 2,35 = 14,1 €
3mm diameter sticks	2 x 8 = 16 €
Transport	10 €
Total price	180,10 €

Table 1: Boeing C-17 Globemaster III model's economical analysis

As indicated in 1, the most expensive issue, obviously, is the wooden pieces cut by laser. As detailed in the main report, the price of the wooden pieces has been 140 and the price is  $25 \in /h$ , so the machine has been working a total amount of 5,6 hours.

The rest of the prices detailed above represent the 23% of the final price, which sums up to  $180,10 \in$ .

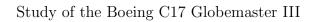
In addition to this budget, a count of the amount of hours spent to develop the study and the scale model have been analysed. In the case that this scale model wants to be constructed, or a similar aircraft study wants do be made, it will be a great help to have a previous estimation of the amount of time and money it will take to do it. The following table describes the amount of hours needed to develop the study and the model:

Task	Hours
CAD representation	80 hours
Scale model	65 hours
Total	145 hours

Table 2: Boeing C-17 Globemaster III model's economical analysis (2)



The amount of hours detailed have to be considered as budget as well, to have a total price in the case the model has to be sold or someone else wants to realise a similar project. However, the hours dedicated to the CAD representation have to be done only once. In other cases, a few hours can be dedicated to actualisation of the model, improvements or any changes that make it easier or cheaper to construct the model.





## List of Tables

1	Boeing C-17 Globemaster III model's economical analysis	3
2	Boeing C-17 Globemaster III model's economical analysis (2).	3