**Subsystems**

**Tasks:**

Relate stakeholder to requirements

Relate functions to stakeholders' requirements

Define requirements of each subsystem, inputs and outputs (N^2 diagram)

Define the interfaces between subsystems

We need to keep in mind that there are other products as well —> mention in functions

they have Port of Ashdod as a Crane customer but in the future, they may have more\*\*

customers for STS cranes so order numbers may increase and we need to account for that.

1. Planning & Control (P&C)

* Sequencing policy
* Predict raw material requirements
* Production capacity
* OEE

1. Performance Management (PM)

* Format the FEM Analysis data and results for the poster
* List down parameters required for the estimation of the performance of the PS.
* Quality standards by analyzing machine failure modes, part failure modes (include STS cranes and other products by Etone)
* Risk analysis

1. Process Design (PD)

* Space occupied by each machine
* Note down curtain production sequence patterns (there are about 4-5)
* plan a rough arrangement/grouping of machines according to the volume and sequence of those processes
* Layout of factory

1. Finance & Inventory Management (F&IM)

* Estimate the revenue generated by selling of parts according to the delivery requirement using the price of the produced goods mentioned.
* Make a financial model with the estimated revenue to predict the maximum affordable running cost of the Production System
* Handles cost estimation (preparation costs, assembly costs, machine hourly rate, manufacturing costs, material costs, machine costs, labor costs, tooling costs etc…) - Philip
* Handles ordering of materials (EOQ and ROP) estimation (inventory control)
* Warehousing (storage of inventory) (private, order fulfillment, layout of warehouse in the floorplan) (related to the above point)