REQUIREMENT FOR AUTOMATED STORAGE AND RETRIEVAL SYSTEM

BULDING PARAMETERS:

- 1) 85x85m = 7225 Sqm area
- 2) Roof height in the middle 11 meters

ADING BA

3) Roof height in the ends – 9 meters

CHASSIS & LARGE PARTS STORAGE Custom racking/stillage for chassis parts and big parts. TBD later

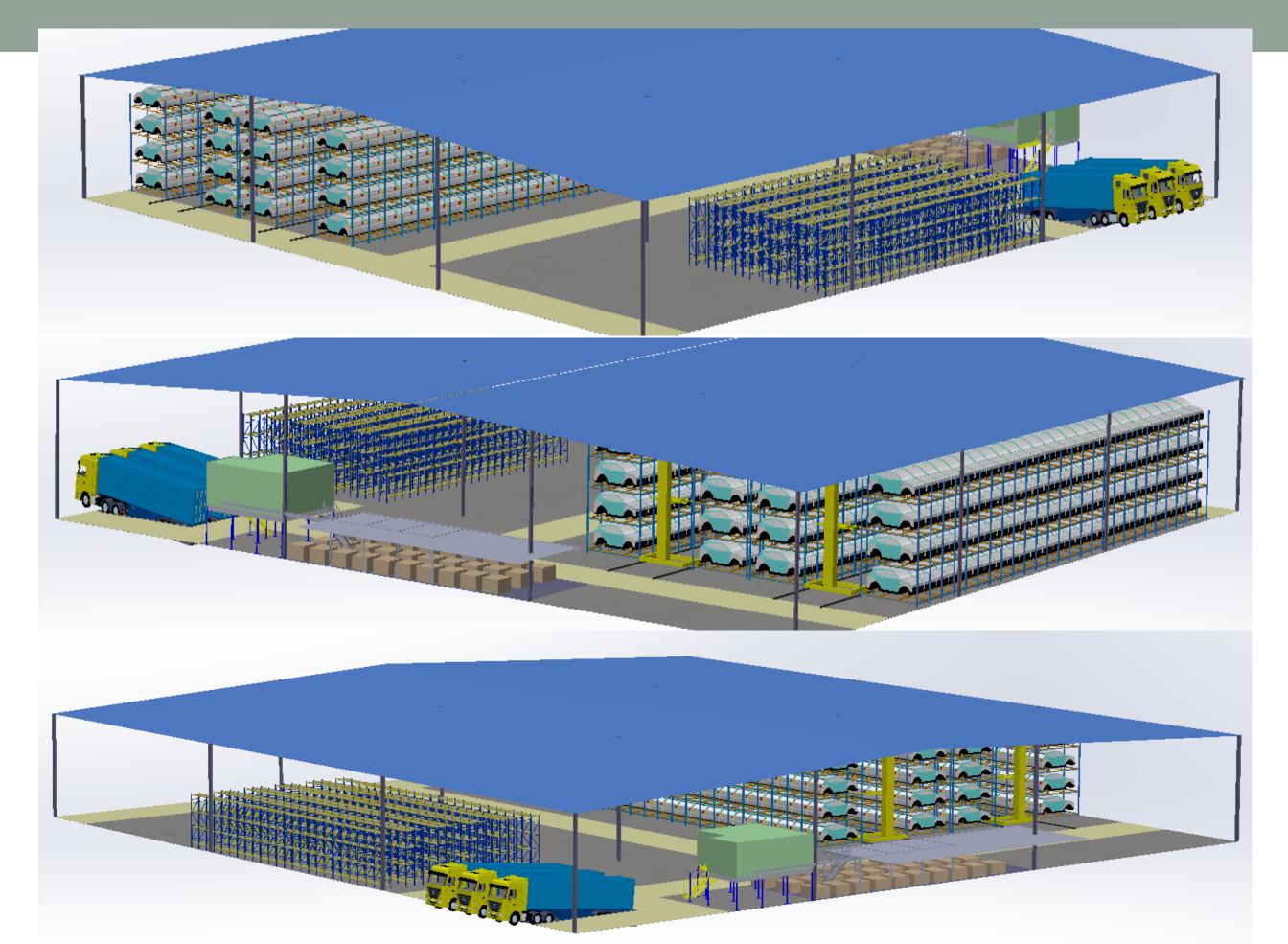
SMALL & MEDI Capacity – 6000 (Area – 600 Sqm Lower racks – Bin weight Middle racks – Bin weight BIW STORAGE Capacity - 400 units storage 25x4 = 100 units in one row Area – 2800 Sqm Multi-storied Racking system BIW Cabin weight – 700 Kgs

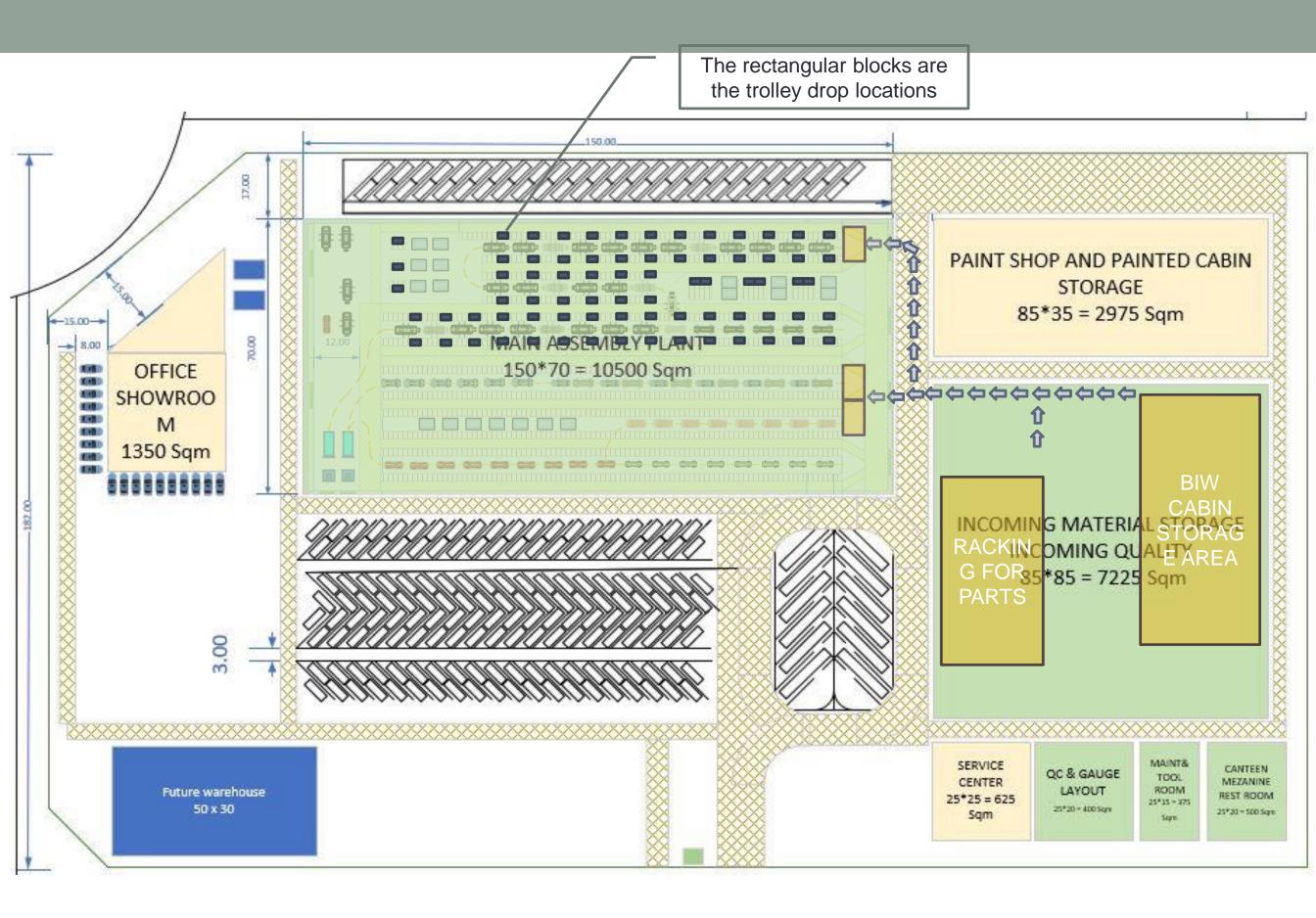
CHASSIS & LARGE PARTS STORAGE Mezzanine storage also

CHECK SORT AREA Mezzanine storage also









For BIW (cabins):

1) The cabins to be stored in a multi level racking system.

2) The cabins will be transported on a fabricated stand. The stand will be used during the transport from supplier to Dubai facility, storage in Dubai facility, movement inside the facility.

4) The racking should be multi-level. Proposed is 4 level with a maximum height of 8 meters.

5) Preferred to have 25 columns, so that each row it will be $25 \times 4 = 100$ cabins.

6) There must be a stacking mechanism like the one in the picture, which can be accessible on both sides.

7) An option for the internal movement of the cabins from warehouse to the assembly line could be AGVs. Probably a wheeled trolley with AGV could be one solution.



For other parts:

 The small and big parts will be moved to assembly building on custom design stillages. For each stillages there could be one or more items with a batch qty (approx. 30 units – For one day usage)
Few AGVs can be used for scheduled supply of goods, and few tuggers for rest of the supplies.

3) These AGVs/Tuggers to drop the stillages in all the stations in the production facility.

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