PRINTABLE REFERENCE CHART

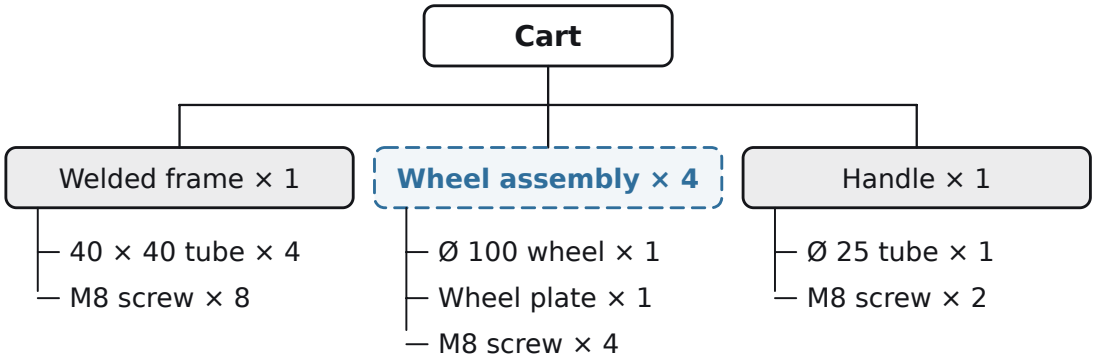
Phantom BOM: item types and a worked example

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1. Phantom, stocked sub-assembly, purchased part or kit

In a multi-level BOM, each item that has children can be handled in several ways by the ERP. The chosen type does not change the structure or the quantities, but it changes the **work orders** and the **stock movements**:

Item type	Stocked?	Own order?	Its components go…	Example
Stocked sub-assembly	Yes	Yes, a work order	on its own order	A wheel assembly built in batches and stored
Phantom item	No	No	on the parent's order	A wheel assembly built at the station and fitted to the cart straight away
Purchased assembly	Yes	A purchase order	nowhere: they are not managed	A complete wheel bought from a supplier
Sales kit	No (its components are)	No, no assembly	on the customer order, picked together	A set of spare parts shipped in one box



2. The worked example: 10 carts

Stocked wheel assembly: two orders and a trip through stock

Order	Builds	Pick list
OF-1	40 wheel assemblies, put into stock	40 wheels, 40 plates, 160 M8 screws
OF-2	10 carts	10 frames, **40 wheel assemblies** (taken from stock), 10 handles

Phantom wheel assembly: a single order

Order	Builds	Pick list
OF-1	10 carts	10 frames, **40 wheels, 40 plates, 160 M8 screws**, 10 handles

Component quantities are exactly the same: 40 wheels, 40 plates, 160 screws. What disappears is one work order, a stock receipt and a stock issue of 40 wheel assemblies, and an item in stock to count. In return, the shop can no longer build wheel assemblies ahead of time: they are built at the station, within the cart's order.

Stocked sub-assembly



2 orders, 1 stock receipt and 1 stock issue

Phantom item



1 order, no intermediate stock movement

Reference values taken from the article https://www.baouch.fr/en/blog/article-fantome-nomenclature-phantom/, which explains the assumptions, formulas and edge cases. For critical use, check the current standard or the manufacturer's documentation. Free to print and share with credit to the source.