PRINTABLE REFERENCE CHART

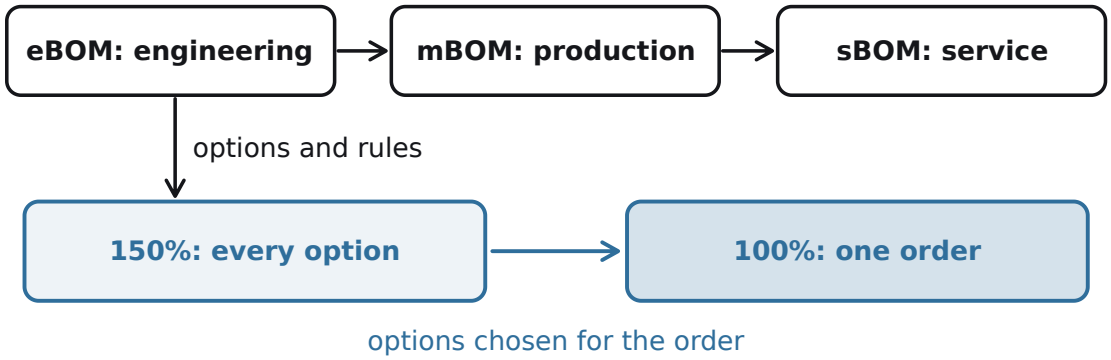
Types of BOM: table and 150% BOM example

BAOUCH.FR
Version of November 28, 2026

1. Types of BOM in one table

Each type answers a question and lives in the system of the people who ask it. The example follows the cart used across the BOM series: welded frame, deck, four wheels and a handle.

Type	Question	Structured by	Where it lives	On the cart
Engineering (eBOM)	What was designed?	Functions and CAD assemblies	CAD, PDM, PLM	Frame, wheel assembly, handle
Manufacturing (mBOM)	How is it built?	Assembly sequence and workstations	ERP	Welded subassembly, final assembly, consumables
Service (sBOM)	What gets replaced?	Spare parts and kits	PLM, ERP (after-sales)	Wheel kit (wheel, axle, washers)
Sales	What ships under one part number?	Items sold together	ERP (sales)	Cart + manual + fastening kit
Configurable (150%)	What can be offered?	Options, with their rules	PLM, ERP (configurator)	Ø 100 or Ø 125 wheels, fixed or folding handle, brake
Variant (100%)	What is built for this order?	One option per choice	ERP (production order)	Ø 125 wheels, folding handle, no brake
As-built	What was actually delivered?	Serial number, revisions fitted	PLM, ERP (traceability)	Cart no. 247, handle at revision B

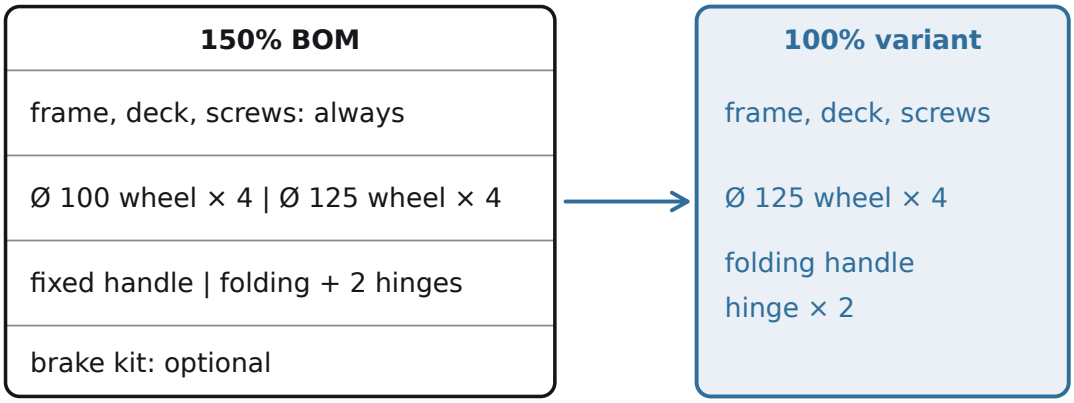


2. Configurable BOM (150%) and variant (100%)

A 150% BOM contains more than any single product uses: the common lines, plus every option, each with the condition that selects it. The figure is not a measure but an image: "more than 100%" of one product. It is also called a generic BOM or super BOM. For the cart, three choices describe eight variants with nine lines:

Item	Description	Qty	Condition
1001	Welded frame	1	always
1002	Deck	1	always
1003	M8 screw	16	always
2001	Ø 100 wheel	4	wheels = Ø 100
2002	Ø 125 wheel	4	wheels = Ø 125
3001	Fixed handle	1	handle = fixed

Item	Description	Qty	Condition
3002	Folding handle	1	handle = folding
3003	Hinge	2	handle = folding
4001	Brake kit	1	brake = yes



order: Ø 125 wheels, folding handle, no brake

Reference values taken from the article https://www.baouch.fr/en/blog/types-de-nomenclature-bom-configurable/, 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.