

Brimload T3 | 2026-10-19

0 Overview

Brimload is an app runs on Windows PC, for assisting shippers plan cargo loading in container, to increase space utilization and save calculation time.

The software mostly serves enterprise clients by providing customization on loading and scheduling rules. This standard edition removed the customized features to provide a simplified interface with the essential function: answer the question that for a given container space, what and how a cargo-quantity combination can be loaded.

This question may raise when a procurement specialist fine tune an order to fit the cargo into a Full Container Load (FCL), or a logistics contractor find how many containers are needed in making a quote, or a manufacturing company plan shipment to fulfill orders on ongoing base by fill rate target.

The software requires Windows 64bit.

The software does not require internet access.

It does not check update automatically either; visit <https://brimload.com/t3/> to check for updates.

This download is the T3 v261019 trial package for a Windows 64-bit PC, valid through December 30, 2026.

This v261019 release carries the new English name, Brimload (formerly SmartPacker): the program is BrimloadT3.exe, and the window title and messages say Brimload. When asked to open a file that is not a shipment file saved by the English Brimload T3, it now says so instead of closing.

To arrange cartons by hand (select, move, turn, add and fill), use the separate edition Brimload T3 · Interactive Carton Editing, also at <https://brimload.com/t3/>.

Opening saved shipment files works within one edition at the moment. The English Brimload T3 opens the shipment files it saved, including those saved by SmartPacker T3. It does not open files saved by the Chinese edition (智火装箱 T3) or by Brimload U3, or other workbooks; it says so instead. A file saved by a newer version may not open in an older one.

The software is provided by Zhihuo, a software company has offices in Beijing and Winnipeg.

For any questions and comments, please email: zhzx@zhihuo.com

1 The software package

The downloaded package is in zip format, after unzipped, you see the following files in the folder:

Name	Date modified	Type	Size
 data	2026-10-20 12:20 AM	File folder	
 BrimloadT3.exe	2026-10-19 10:47 AM	Application	28,837 KB
 BrimloadT3.pdf	2026-10-20 1:03 AM	Adobe Acrobat D...	1,778 KB

- BrimloadT3.exe is the executable file. Double-click it to run the software, no installation needed.
- BrimloadT3.pdf is the user manual.
- The software package no longer includes separate .dll or .bpl support files. Keep the files and folders from the ZIP package together after extraction.
- The data\t3 subfolder has masterdata.xlsx, an Excel file with sample cargo and container dimensions.
- The software creates a tmp subfolder to save generated calculation cache files.
- When you no longer want it, just delete the folder, no un-installation needed.

Replay/Recovery log bundles

Brimload creates a session log bundle under the tmp folder, for example `tmp\t3_20260619_101500.zip`. The bundle is used for crash recovery, playback, and support reproduction.

A bundle may include manifest.json, replay_log.txt, debug.log, setting.json, copied input files such as masterdata/order/shipment files, copied output files saved during the session, optional UI screenshots, display environment information, and the Brimload account/build version. UI screenshots are captured from the Brimload window, not from the whole Windows desktop.

Brimload does not upload these files automatically. If you want to report a problem, review the bundle first, then share it with ZhiHuo if you agree to share its contents. You may move, archive, or delete old bundles from tmp yourself. Editing or removing files inside a bundle can make replay or recovery fail.

Replay/Recovery is a beta feature in this release. Beta recovery bundles are not promised to stay recoverable by future Brimload versions. If Brimload says a bundle is review-only or unsupported, keep the bundle unchanged and share it with ZhiHuo support instead of treating it as a verified recovered loading plan. When Recovery opens a recovered loading plan, review it and use Save As to save a recovered copy.

Open the data\t3\masterdata.xlsx file,

- The “货物Cargo” sheet is for cargo, you would want to change the dimensions to that of your cargo.

	A	B	C	D	E	F
1	名	长	宽	高	重	上
2	A	1200	1000	500		NO
3	B	1100	1100	700		NO
4	C	800	600	500		NO
5	D	600	500	400		NO
6	E	500	400	300		NO
7	F	1000	800	700		NO
8	G	900	500	300		NO
9	H	1500	700	500		NO
10	I	2000	1500	500		NO
11	J	750	500	400		NO
12						

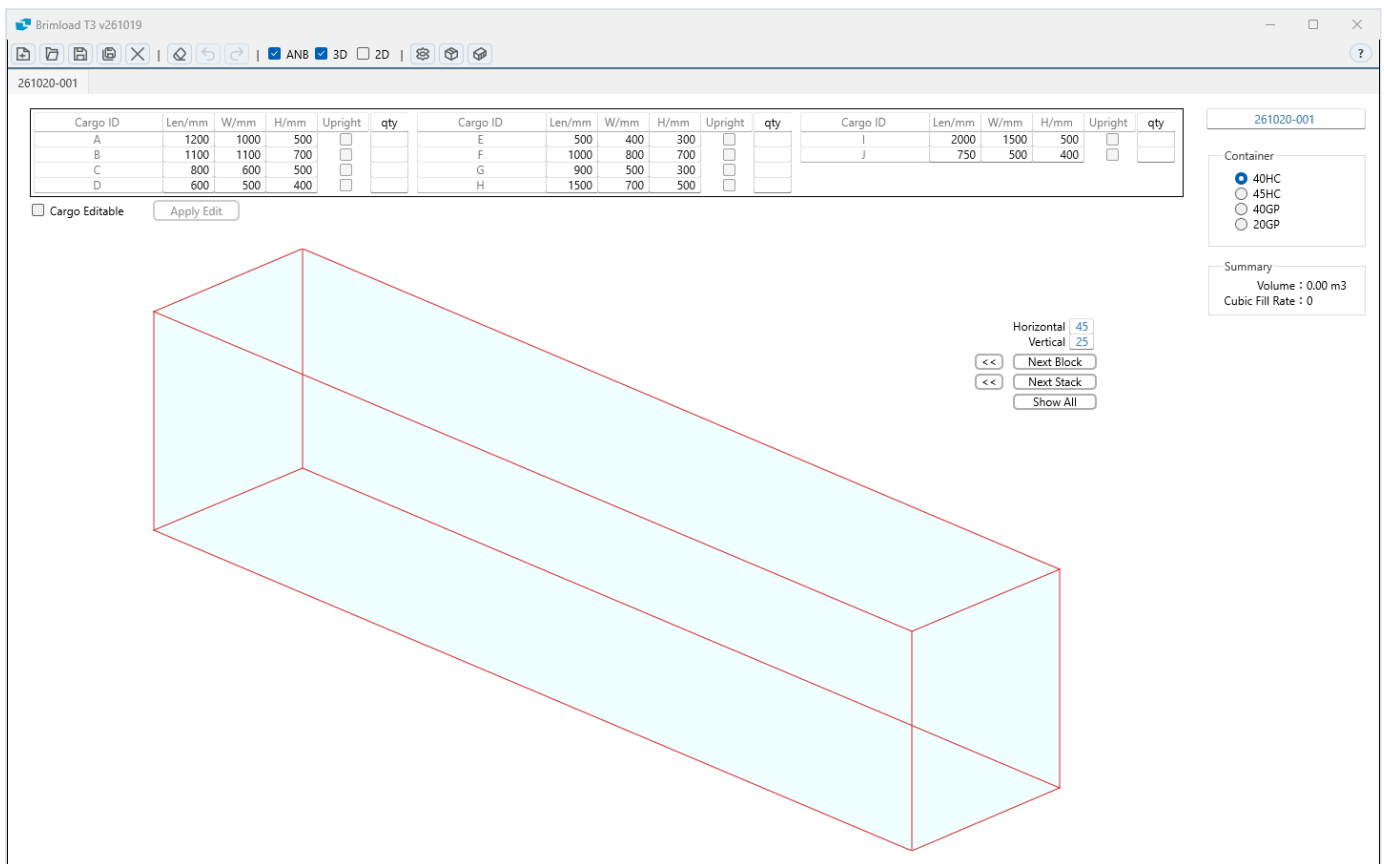
- The “集装箱Container” sheet is for the internal loading space of container, nevertheless, you can also use it to compute a loading space of truck with length, width and height limit, or a carton space.

	A	B	C	D	E
1	型号 Model	内长InnerLength/mm	内宽InnerWidth/mm	内高InnerHeight/mm	重量CargoWeight
2	40HC	11850	2320	2670	30000
3	45HC	13350	2320	2670	30000
4	40GP	11850	2320	2320	30000
5	20GP	5660	2320	2320	30000
6					

The app will import these data sheets when it starts.

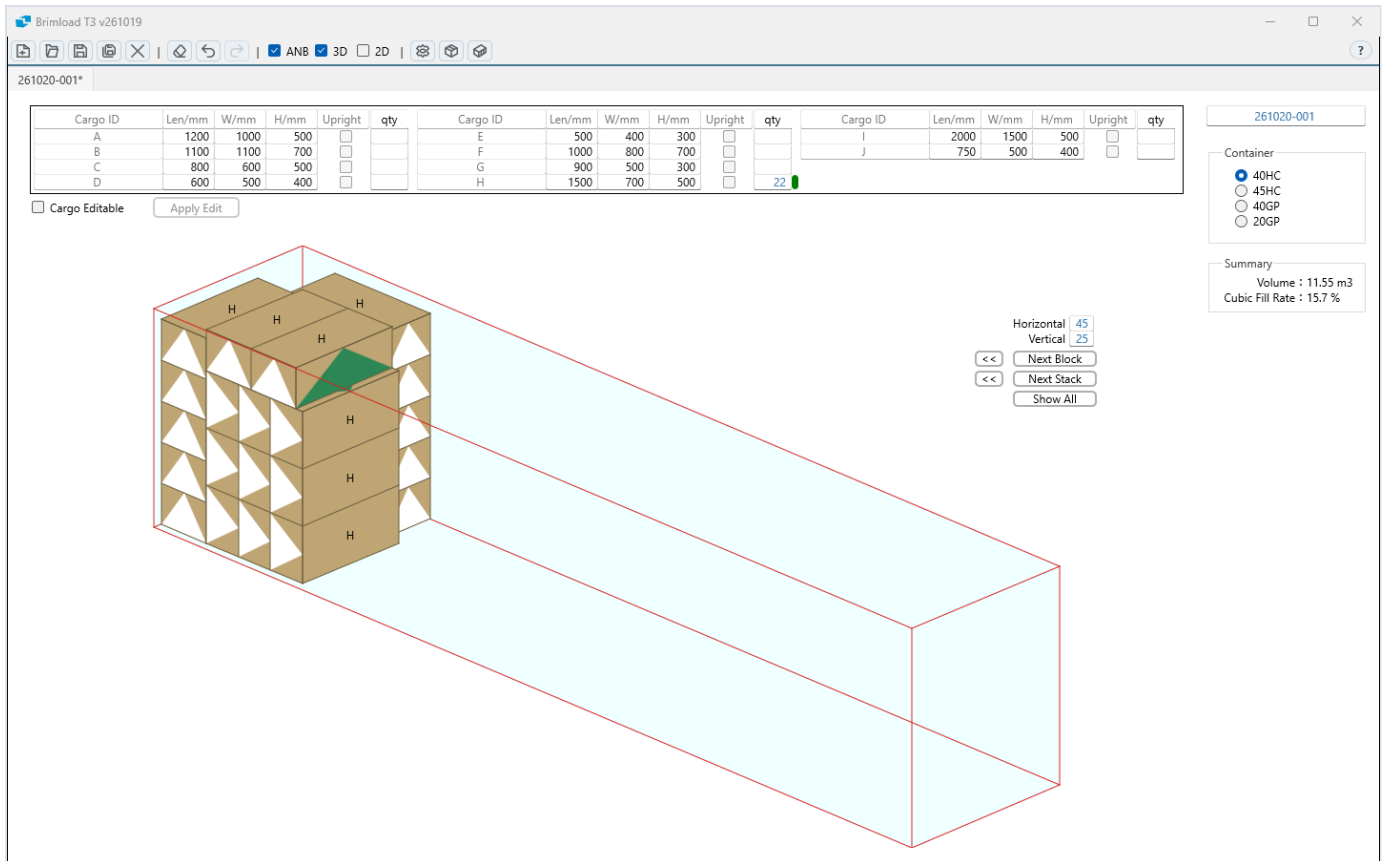
2 Explore what cargo-quantity combination to load

You see the following user interface when the app starts



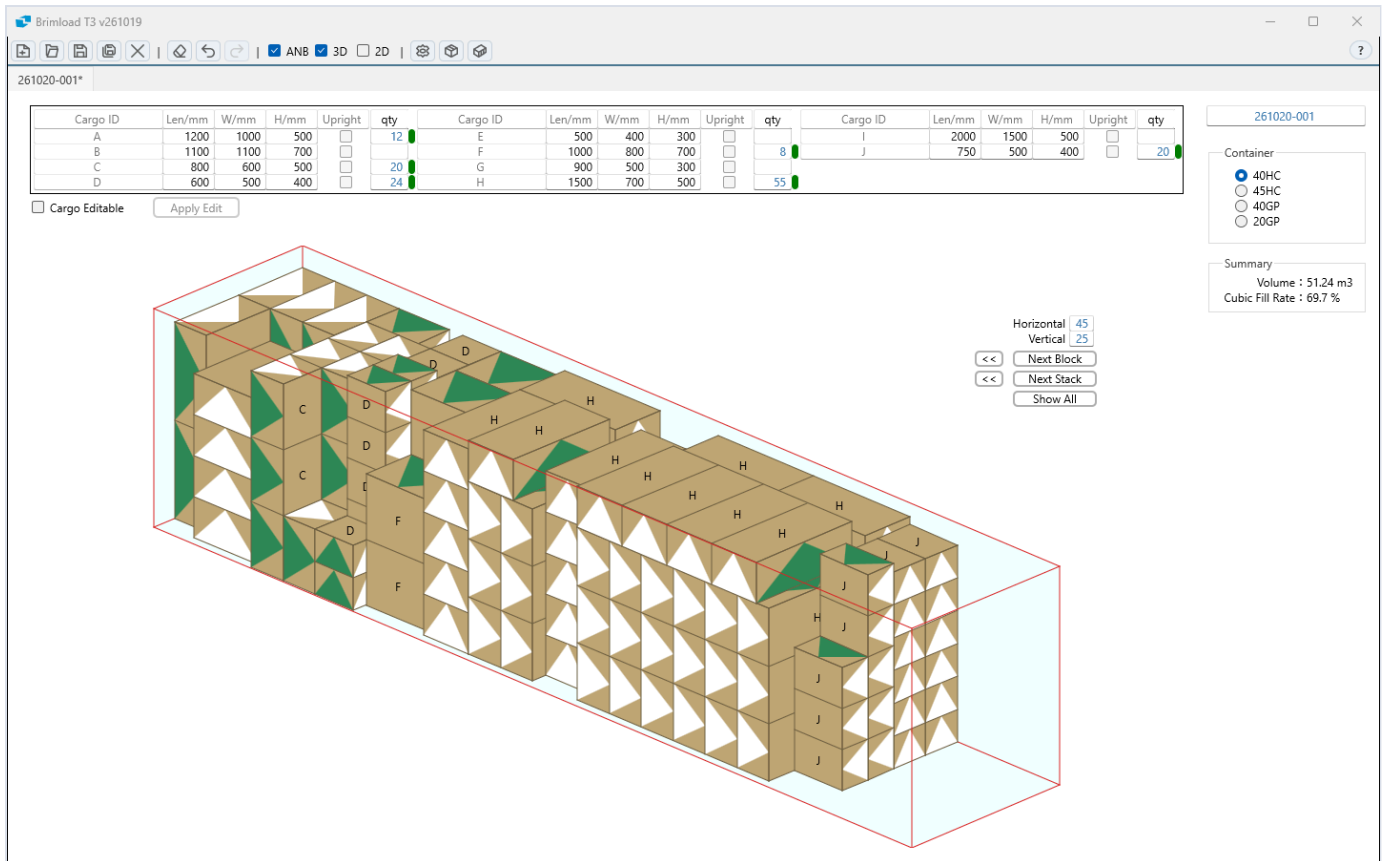
- A panel to input cargo dimensions and quantity, let us call it the cargo-quantity panel
- An illustration of the container space and the cargo loading
- The toolbar provides file, clear, view, and configuration actions; the side controls select the container and show loading summary data.

To start, move the mouse cursor on a number box for a quantity of a cargo, roll the wheel the mouse to increase or decrease the number, and see a loading plan computed accordingly. Below I am changing the quantity of cargo H to 22.



You can move cursor and roll up the quantity of other cargo, and see the cargo loading plan evolve. Nevertheless, as more cargo added, you notice the app will react slower.

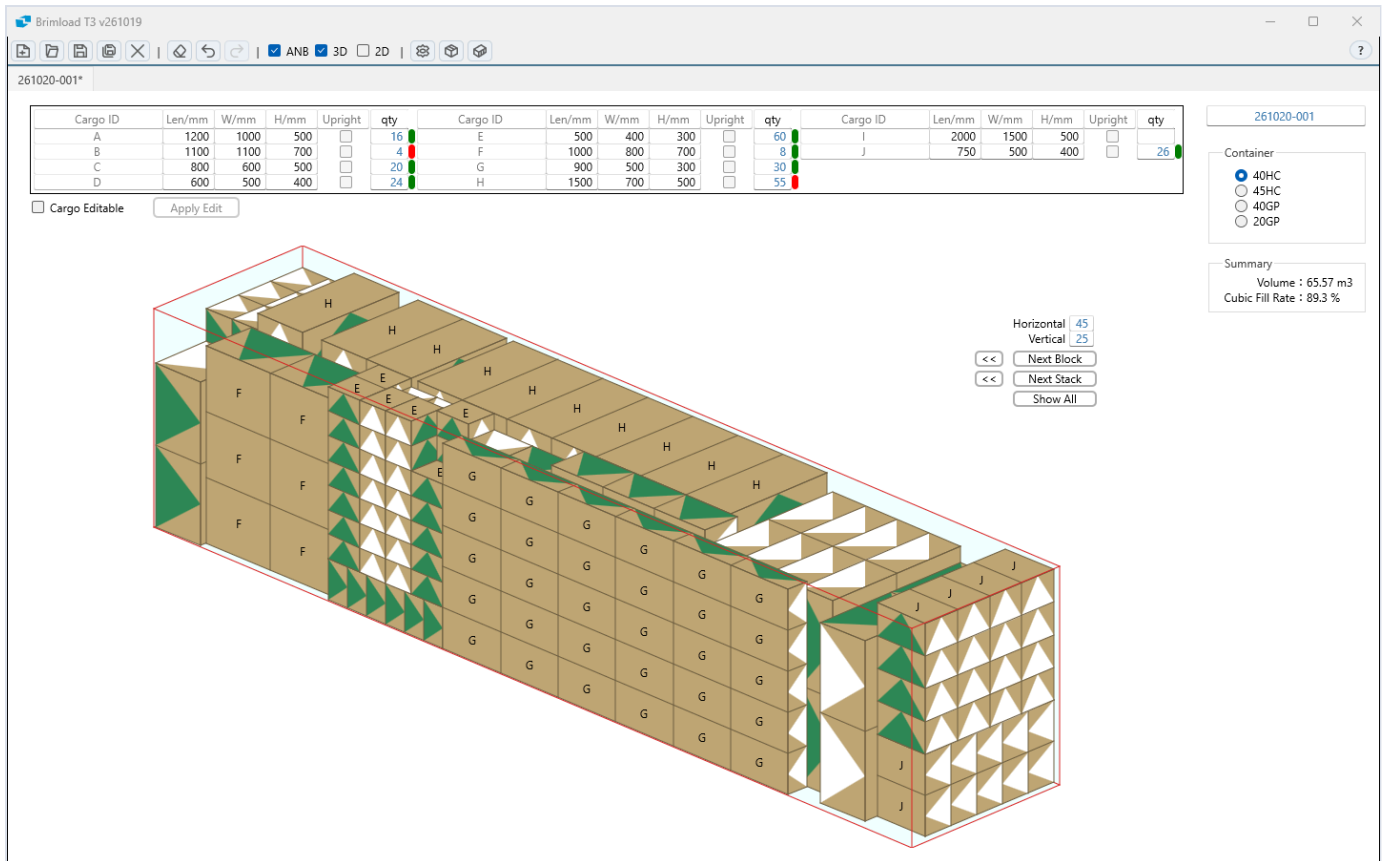
In that case, you can select a number box and type the quantity, e.g. 55, directly then type "return", so the app won't have to compute the loading plans for quantities from 1 to 54, but compute and show you with a plan for 55 directly.



For the 6 number boxes with a no-zero quantity, you see a green light indicator besides, which is to tell you that quantity can still be increased.

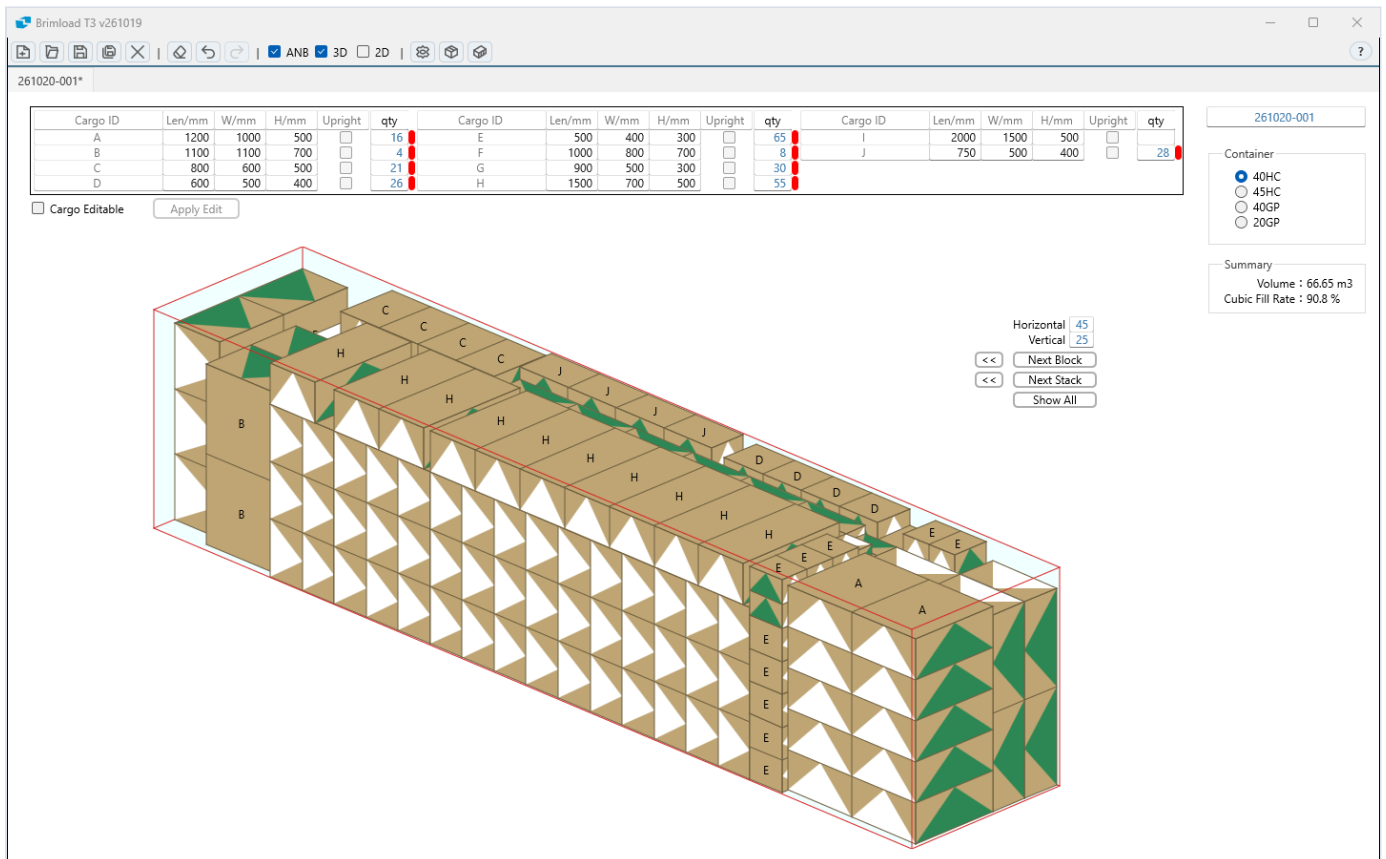
Then as you continue to grow the quantities, some of them will turn red.

The current version only supports stacking by same cargo, so the app will not place cargo B, which has turned red, on top of the cargo G, which is still green. (We know you'd want that and we are working on it.)



Then you can follow the green light to increase quantities till all red.

Now you see the cubic fill rate made 90.8% in the loading summary panel.



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ANB

3D

2D

261020-001*

Cargo ID	Len/mm	W/mm	H/mm	Upright	qty	Cargo ID	Len/mm	W/mm	H/mm	Upright	qty	Cargo ID	Len/mm	W/mm	H/mm	Upright	qty
A	1200	1000	500	☐	16	E	500	400	300	☐	60	I	2000	1500	500	☐	
B	1100	1100	700	☐	4	F	1000	800	700	☐	8	J	750	500	400	☐	26
C	800	600	500	☐	20	G	900	500	300	☐	30						
D	600	500	400	☐	24	H	1500	700	500	☐	55						

☒ Cargo Editable

Apply Edit

261020-001

Container

☒ 40HC

☐ 45HC

☐ 40GP

☐ 20GP

Summary

Volume : 65.57 m3

Cubic Fill Rate : 89.3 %

Horizontal 45

Vertical 25

<< Next Block

<< Next Stack

Show All

Brimload T3 v261019

ANB

3D

2D

261020-001*

Cargo ID	Len/mm	W/mm	H/mm	Upright	qty	Cargo ID	Len/mm	W/mm	H/mm	Upright	qty	Cargo ID	Len/mm	W/mm	H/mm	Upright	qty
A	1200	1000	500	☐	16	E	500	400	300	☐	60	I	2000	1500	500	☐	
B	1100	1100	700	☐	4	F	1000	800	700	☐	8	J	750	500	400	☐	26
C	800	600	500	☐	20	G	900	500	300	☐	30						
D	600	500	400	☐	26	H	1500	700	500	☐	55						

☒ Cargo Editable
 Apply Edit

Container

☒ 40HC
 ☐ 45HC
 ☐ 40GP
 ☐ 20GP

Summary

Volume : 65.81 m3
 Cubic Fill Rate : 89.6 %

Horizontal 45

Vertical 25

<< Next Block

<< Next Stack

Show All

You may have another “What if” question: the cargo B is sth wrapped with soft materials, and your boss believes it should be ok to press some air out. You can explore this option by tuning down its dimensions, say decrease 20 mm in its length, width and height.

You go ahead and changed its dimensions, it turns out, cargo B is rather altruistic, that it still shows red, about allowed E, H, and I to turned green to add more.

UnNamed_1

New

?

Cargo ID	L/mm	W/mm	H/mm	Upright	qty
A	520	439	403	☐	0
B	765	678	534	☐	33
C	1253	1032	779	☒	0
D	674	542	336	☒	0
E	522	455	422	☒	22
F	875	755	366	☒	0
G	1023	895	275	☒	0
H	807	738	450	☒	36
I	623	534	322	☒	118
J	1233	1023	799	☒	0

Cargo ID	L/mm	W/mm	H/mm	Upright	qty
K	2054	702	697	☒	0
L	1522	422	254	☒	0
M	2033	677	543	☒	0
N	933	873	654	☒	0
O	2550	1200	355	☒	14
P	1500	699	533	☒	0
Q	1200	633	533	☒	0
R	933	654	557	☒	56
S	872	552	466	☐	0
T	733	456	372	☐	0

Hide Cargo-Quantity Panel

Show Red/Green Indicator

☒ Qty > 0
☐ Qty = 0

Cargo Editable

Clear Quantities

Container type

☒ 40HC
☐ 45HC
☐ 40GP
☐ 20GP

Summary

Volume : 67.9 m3
 Cubic Fill Rate : 92.4 %

Horizontal

45

Vertical

25

<<

Next Block

<<

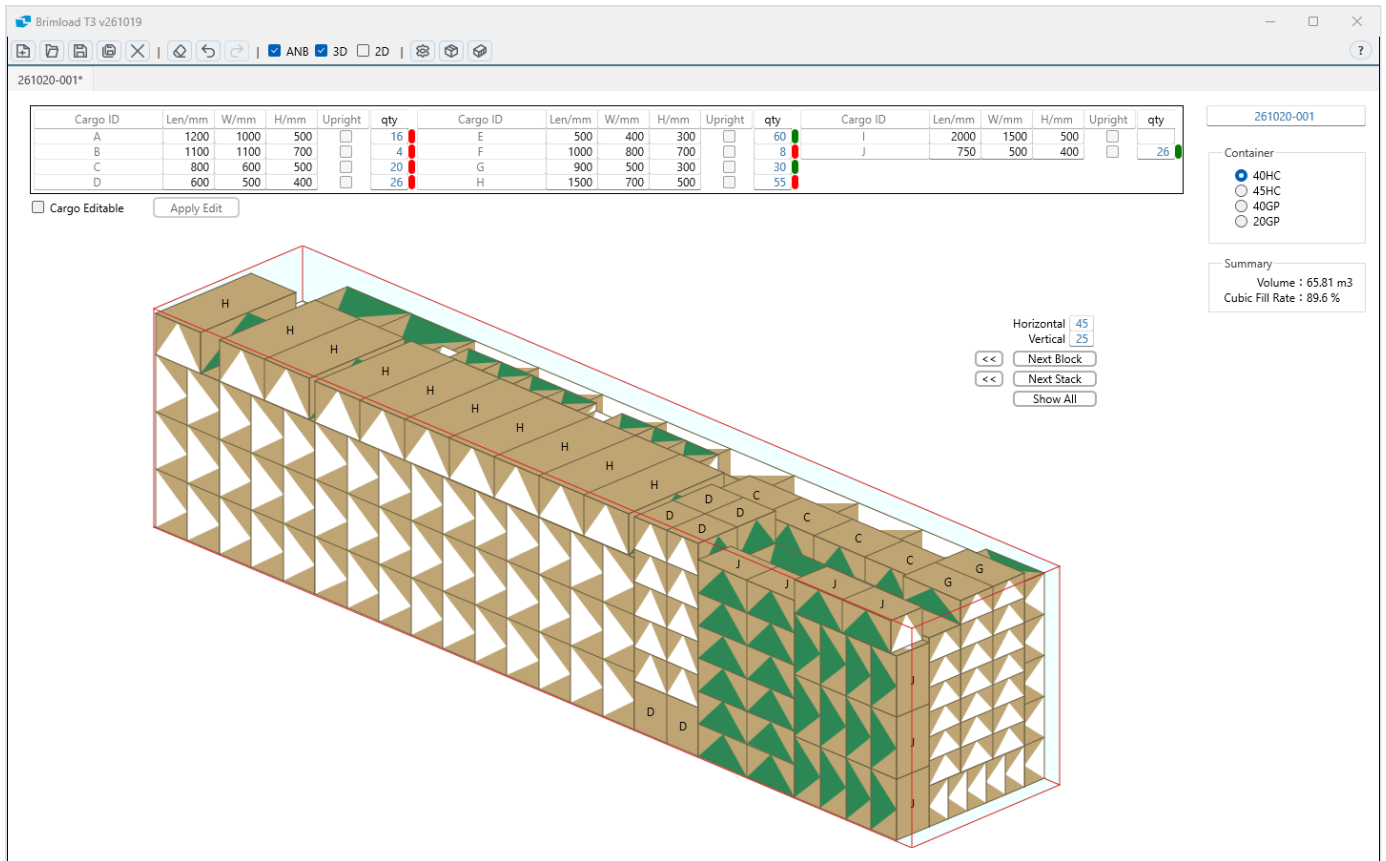
Next Stack

Show All

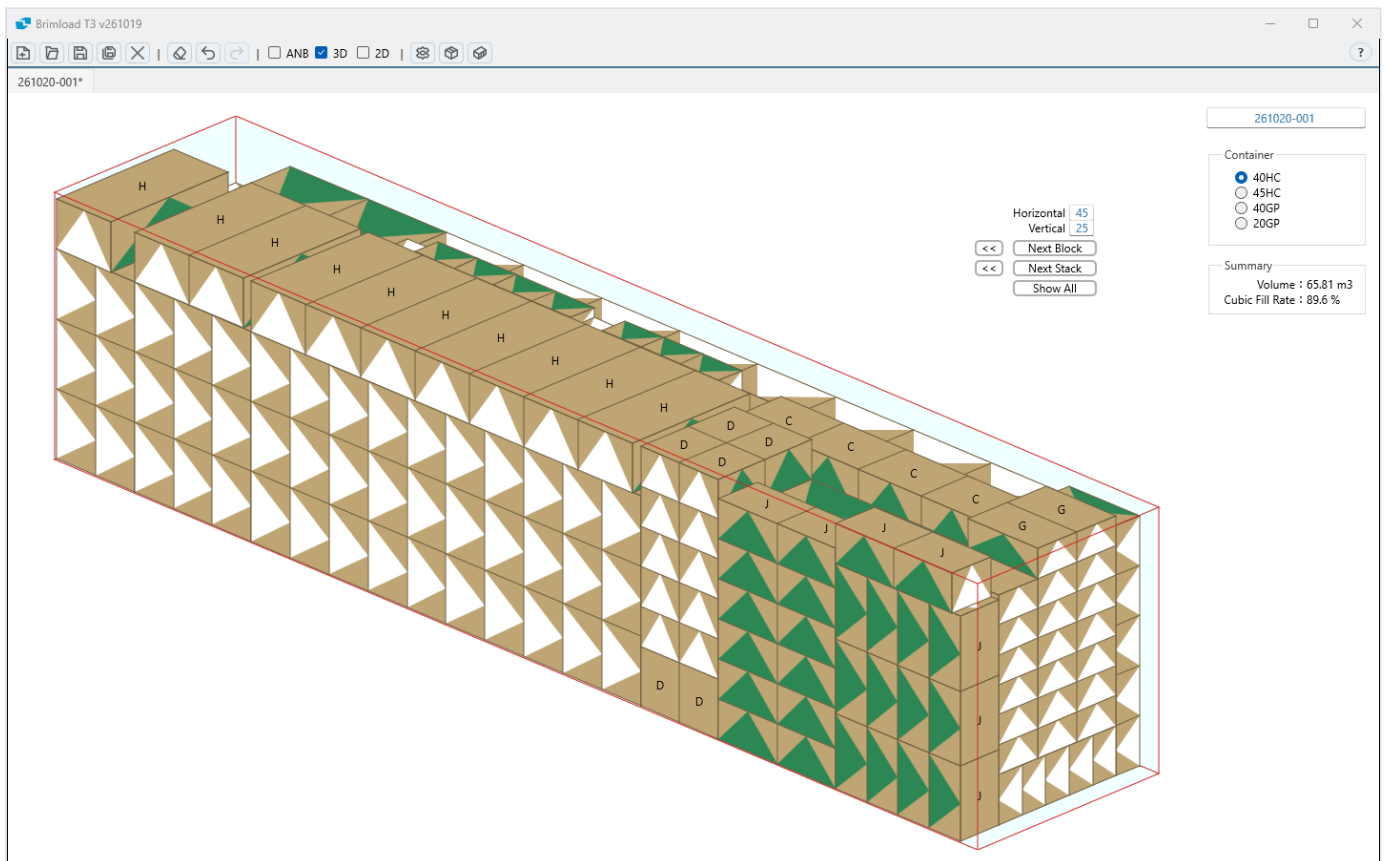
The changes you make to cargo dimensions apply to this loading plan only: “Use Master” takes them back, and “Update Master” copies them into the master data, which the app offers to save to data\t3\masterdata.xlsx when you exit.

The convenience of moving cursor and rolling mouse wheel to change the cargo also brings a risk of unintended edits.

To avoid that, uncheck the “Cargo Editable” checkbox below the cargo-quantity panel, then the cargo specifications will turn black, indicating they are not editable.



The "ANB" view checkbox on the toolbar can hide the upper panel to make room for larger illustration, which can be useful when you checking the loading plan on a laptop screen in the loading dock.



The "Horizontal" and "Vertical" number box enable you to adjust viewing angle of the container loading plan, and the "Next Block" and "Next Stack" button help you see the loading plan by steps, which is instrumental to reveal the hidden sections.

