Trailer Unloading Time Planner

How-to guide: what the workbook does, how to use it and what every number means. mfgcalcs.com

Trailer Unloading Time Planner

Work out how long every inbound trailer takes to unload and receive, and whether it fits the appointment slot booked for it.

For: Receiving supervisors, dock schedulers and warehouse managers booking inbound appointments.

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Quick start

1. On Setup, type your site and date, list your crews with their sustained pallets per minute, and your load types with their delay allowance and setup minutes.
2. On Appointments, give each trailer a row: slot start, door, supplier, load type, crew, pallets and slot length.
3. Fix anything the Check column names.
4. Open the Dashboard: required time against each slot, and the trailers that will overrun.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Site, date, the near-capacity threshold, the crews with their unloading rate, and the load types with their delay allowance and setup.
Appointments	One row per inbound trailer: pallets, crew, load type and slot in; unloading time, finish and fit to the slot out.
Dashboard	Unloading time of every inbound trailer against the slot booked for it, and where the time goes.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Active time	Pallets / pallets per minute.	min
Delay minutes	Active time x delay allowance.	min
Setup and delay	Delay minutes + setup minutes.	min
Required time and finish	Active time + setup and delay; slot start + required time to the nearest minute.	min, time

Quantity	How it is calculated	Units
Slot load and status	Required time / slot minutes; Over capacity above 100%, Near capacity from the threshold on Setup.	%, -
Overrun	Required time - slot minutes, when positive.	min

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Brookfield Distribution Centre, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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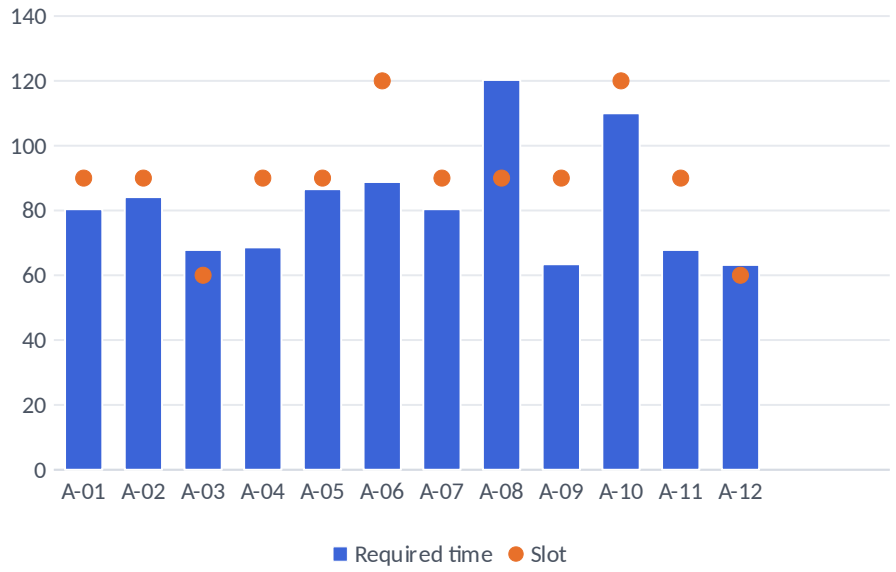
Unloading time of every inbound trailer against the slot booked for it, and where the time goes.

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Brookfield Distribution Centre (example), 20 Oct 2026: 12 trailers, 265 pallets.

TRAILERS	PALLETS	UNLOADING HOURS	TRAILERS OVER THEIR SLOT
12	**265**	**16.4**	**3**
Appointments with a required time	All appointments	Required time, all trailers	Required time longer than the slot

Required time against slot (min)



Where the time goes (min)

