Canning Line Capacity

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

Canning Line Capacity

Plan every canning run: cans the seamer closes and the retorts process in the shift, which one sets the pace, and whether the run covers its demand.

For: Cannery production planners, plant managers and thermal process supervisors scheduling seamers and retorts.

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Quick start

1. On Setup, type your plant and the near-capacity threshold, and list your seamers with their rated speed.
2. On Runs, give each run a row: seamer, product, production minutes, availability, cans per retort load, retort cycle, retorts and demand.
3. Fix anything the Check column names.
4. Open the Dashboard: cans through against demand, and whether the seamer or the retorts hold each run back.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant, the near-capacity threshold, and the seamers with their rated speed.
Runs	One row per shift run: seamer, process and demand in; seamer output, retort capacity, cans through and the pace-setter out.
Dashboard	Cans through the line against demand for every run, and whether the seamer or the retorts set the pace.
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
Seamer output	Rated speed x production minutes x availability.	cans
Loads per retort	Production minutes / retort cycle, rounded down to whole loads.	loads
Retort capacity	Retorts x loads per retort x cans per load.	cans
Cans through and sets the pace	The smaller of seamer output and retort capacity; whichever is smaller.	cans, -
Retort capacity above seamer and retorts to match	Retort capacity - seamer output; seamer output / (loads x cans per load), rounded up.	cans, retorts

Quantity	How it is calculated	Units
Load and status	Demand / cans through; Over capacity above 100%, Near capacity from the threshold on Setup.	%, -

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 Lowland Canners, 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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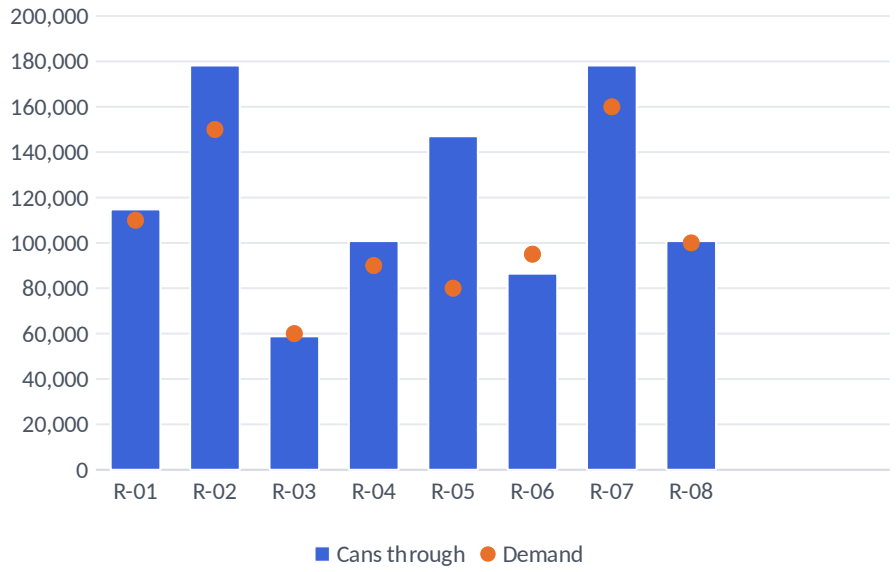
Cans through the line against demand for every run, and whether the seamer or the retorts set the pace.

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Lowland Canners (example): 8 runs, 845,000 cans of demand.

RUNS	CANS THROUGH	DEMAND	RUNS OVER CAPACITY
8	964,950	845,000	2
Rows with cans through	The smaller of seamer and retorts	All runs	Demand above cans through

Cans through against demand



Seamer output against retort capacity

