

Shift Production Report

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

mfgcalcs.com



Shift Production Report

Record each line's shift in one row and see plan attainment, line efficiency, yield, labour productivity and the main stop reasons by day, line and shift.

For: Shift supervisors, team leaders, production managers and plant managers who run a daily production meeting.

Version 1.0.0 · updated 15 October 2026

Quick start

1. On Setup, type your plant name and targets, then replace the example lines, shifts, products (with their rated speeds) and loss reasons.
2. At the end of each shift, add one row per line on Shift Log: scheduled quantity, planned minutes, downtime and its main reason, units made, good units, labour hours and a handover note.
3. Read the Check column: anything other than OK names the problem in words.
4. Open the Dashboard for the morning meeting. Filter by line or set From and To to one day for that day's report.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant name, targets, and the line, shift, product (rated speed) and loss-reason lists.
Shift Log	One row per line per shift: scheduled quantity, time, output, labour and the handover note.
Dashboard	Plan attainment, line efficiency, yield and the main losses, for the line and dates you choose.
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
Rated speed	Looked up from the Products list on Setup by product (INDEX/MATCH): good units per hour the line is designed or proven to run.	units/h
Capacity	Rated speed x planned minutes / 60: what the line could make in the planned time.	units
Scrap	Made - good.	units

Quantity	How it is calculated	Units
Plan attainment	Good / scheduled (plan) units. Over several rows: sum of good / sum of plan.	%
Line efficiency	Good / capacity at rated speed. Over several rows: sum of good / sum of capacity. Downtime, slow running and scrap all lower it.	%
First-pass yield	Good / made. Over several rows: sum of good / sum of made.	%
Units per labour hour	Good / paid labour hours. Over several rows: sum of good / sum of labour hours.	units/labour h
Plan status	On target at or above the attainment target, Near target within 5% below it, Below target otherwise.	-
Downtime and the Pareto	Downtime minutes per row, summed by the row's main loss reason (all of a row's downtime is counted under its main reason), ranked by COUNTIF ranks with share and cumulative share. Hidden helper columns AO:AQ hold the unsorted values and ranks.	min, %
Dashboard roll-ups	SUMIFS over the Shift Log restricted to rows whose View date is filled in (inside the line and date filters).	-

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 Ashdown Household Products, a fictional business.

Free from MFG Calcs - keep this credit when you share it.

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

Shift Production Report

Plan attainment, line efficiency, yield and the main losses, for the line and dates you choose.

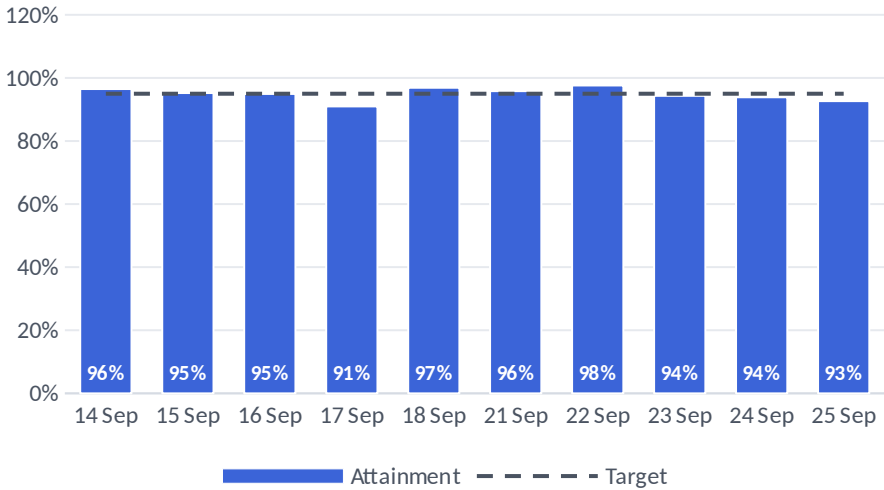
mfgcalcs.com

LineFromTo

Ashdown Household Products (example): 60 line-shift rows in view. Leave the filters blank to include everything; dates are inclusive.

PLAN ATTAINMENT	LINE EFFICIENCY	FIRST-PASS YIELD	UNITS PER LABOUR HOUR
94.9%	83.4%	98.8%	337.6
Target 95.0%	Target 80.0%	Target 98.5%	Target 300.0
Near target	On target	On target	On target

Plan attainment by day



Attainment and line efficiency by line

