

PITTER ENTERPRISES LLC

Fab Pilot

A closer look at the fabrication shop workflow

Estimating • Production • Time • Job costs

Built in a fabrication shop. Designed for fabrication shops.

PRODUCT WALKTHROUGH / SEPTEMBER 2026



The fabrication job cycle

Keep the estimate, released work and job review connected.

01 Estimate and prepare

Review CAD, materials, operation hours, outside services and pricing.

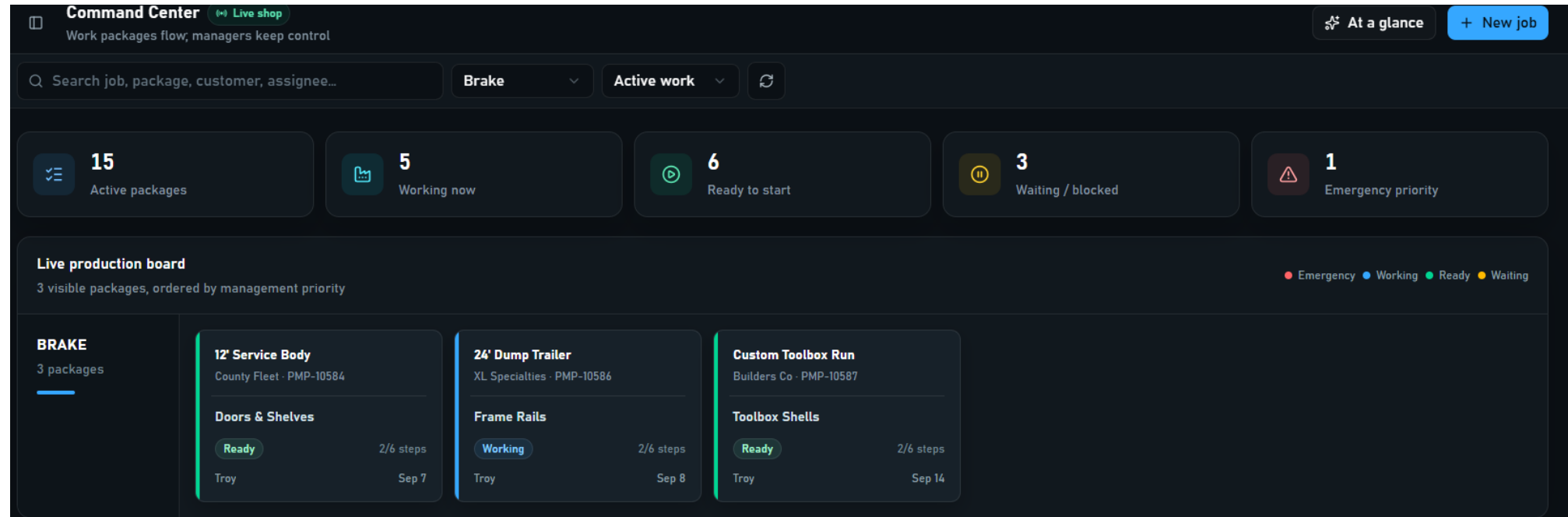
02 Release and run

Set work packages, quantities, process order, assignments and priorities.

03 Review and bill

Compare quoted and actual costs, then hand completed work to Invoice Pilot.

Command Center



Command Center: active work, priorities and production status

See work status

Ready, working, waiting and emergency work.

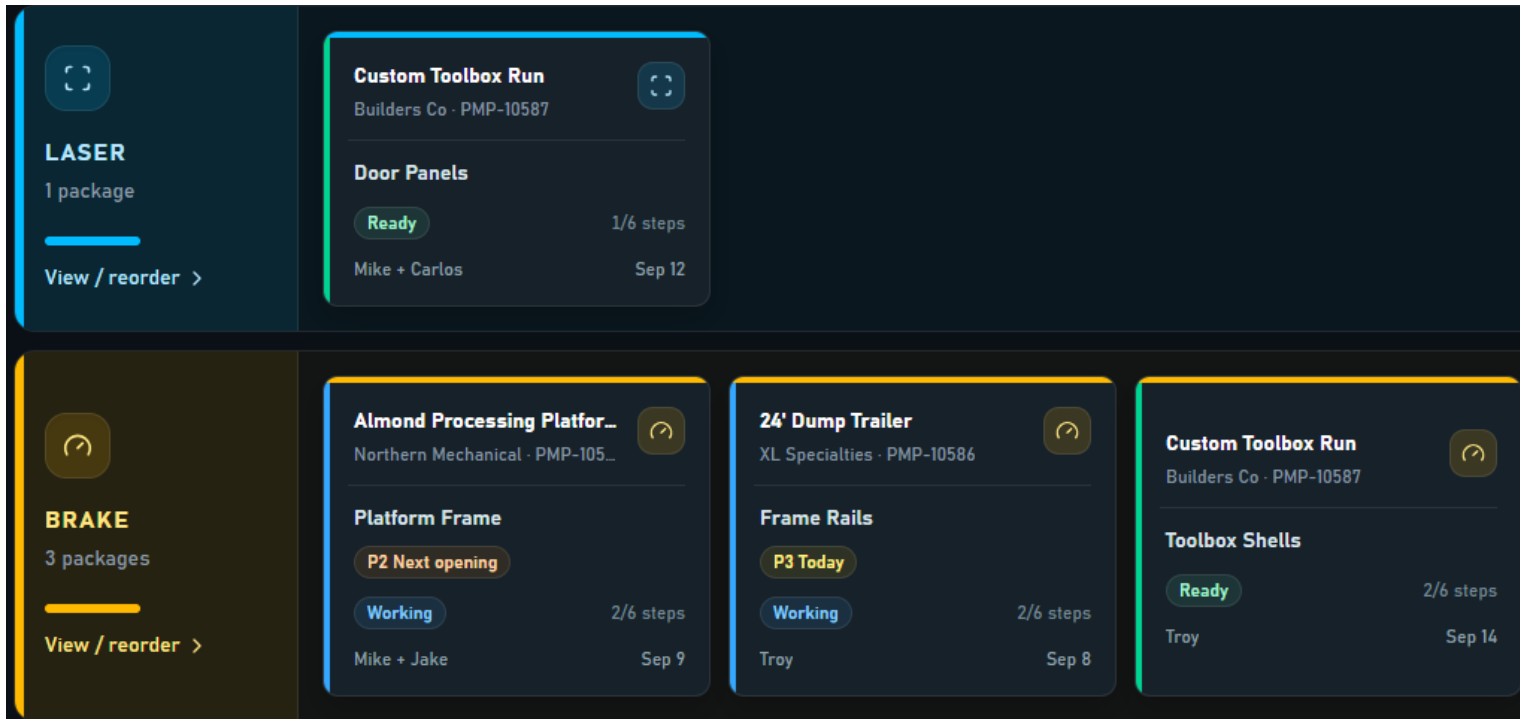
Find the job

Search and filter by station or active work.

Keep control

Managers set the order of work.

Work organized by station



Your process flow

Arrange operations and station lanes around the shop.

Clear assignments

See the people, package and next process.

Simple actions

Start, pause, resume and move work forward.

Station lanes: assignments, process status and manager priorities

Progressive releases and quantities

Release the portion that is ready while the rest of the job develops.

01 Split a project into work packages

Give released work its own route, quantity, status and assignments.

02 Track partial progress

Record quantities and partial completion without closing the whole job.

03 Set the pace

Use job due dates, optional process dates, priorities and emergency handling.

04 Manage the floor

Reorder processes and work; keep blocked or waiting work visible.

Employee time and shared shop stations

Capture payroll attendance and job time as separate records.

01 **PIN clock-in and clock-out**

Employees use a shared shop station to clock in and select work.

02 **Independent worker timing**

Several people can work on one job. One person's clock-out does not stop coworkers.

03 **Pause and resume**

Clock-out pauses that employee's active timers; clock-in resumes still-valid paused work.

04 **Concurrent work**

Track work across jobs or machines. Job hours can differ from elapsed payroll hours.

Payroll and labor reporting

Payroll time report
Pick a pay period, review employee clock-in hours, then export the report for payroll.

[Detailed labor reports](#) [Export payroll Excel](#)

Choose pay period

Today This week Last week This month Last month This year

Specific month **Specific year** **Custom start** **Custom end** **Employee**

September 2026 2026 09/07/2026 09/12/2026 All employees [Run report](#)

✓ Showing Sep 7, 2026 – Sep 12, 2026

TOTAL PAYROLL HOURS 42h 36m 1 shift in this period	DAILY AVERAGE 14h 12m 3 worked days	EMPLOYEES WITH TIME 1 Employees with recorded hours	CLOCKED IN NOW 1 Open payroll shifts
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Payroll reports: pay periods, employee filters and Excel export

Flexible periods

Day, week, month, year or a custom range.

Review and export

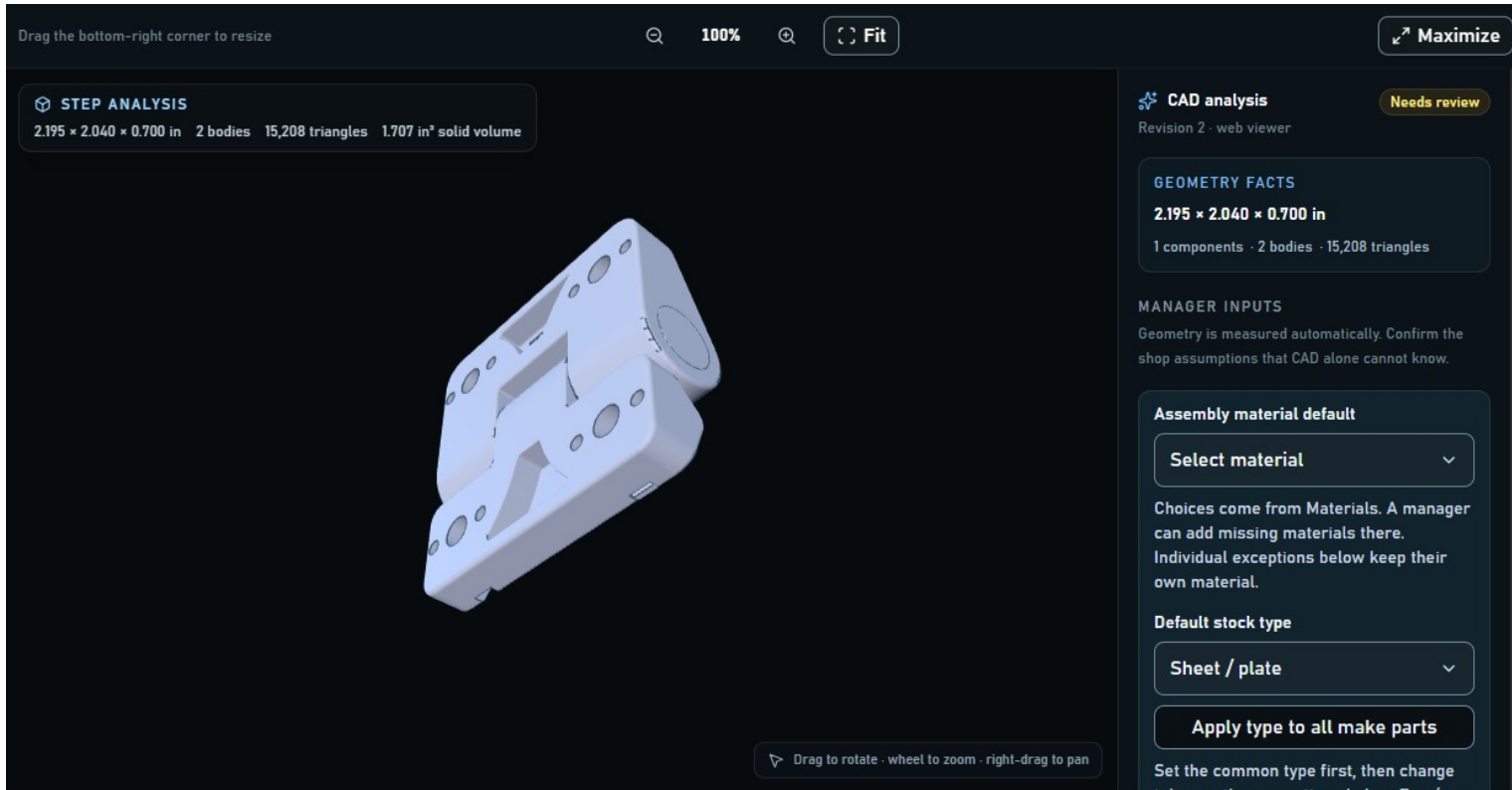
Employee filters, totals, daily averages and Excel.

Leave settings

Sick/vacation accrual and overtime-related settings.

Payroll reporting supports review and export; it is not a payroll payment service.

CAD review inside the job



STEP viewer: 3D geometry, dimensions and manager review inputs

Geometry provides estimating inputs; shop assumptions and final pricing require review.

STEP and DXF

Inspect 3D models and 2D drawing geometry.

Useful measurements

Review dimensions, bodies and detected stock details.

Manager judgment

Confirm material, stock type, process and finish.

Material takeoffs and part measurements

Individual CAD part measurements

Reference measurements only—the combined material summaries below determine estimated demand.

6 detected items

^ Hide parts

Detected stock	Profile / size	Qty	Calculated usage	Weight	Confidence
Sheet / plate 1600-062-01-02-13-26.STEP	4 × 20.563 × 0.25 in	4	2.28 ft² net	8.1 lb	high
Sheet / plate 1600-062-01-02-13-26.STEP	8 × 20.563 × 0.25 in	2	2.28 ft² net	8.1 lb	high
Sheet / plate 1600-062-01-02-13-26.STEP	4 × 48.56 × 0.25 in	2	2.7 ft² net	9.5 lb	high
Tube / HSS 1600-062-01-02-13-26.STEP	2 × 2 in OD · 0.18 in wall	2	2 @ 75.5 in · 12.58 ft total	18.8 lb	medium
Tube / HSS 1600-062-01-02-13-26.STEP	2 × 2 in OD · 0.18 in wall	2	2 @ 47.125 in · 7.85 ft total	11.6 lb	medium
Tube / HSS 1600-062-01-02-13-26.STEP	2 × 2 in OD · 0.18 in wall	1	1 @ 71.5 in · 5.96 ft total	9.2 lb	medium

CAD part measurements: stock type, usage, weight and confidence

Review detected parts

Stock type, dimensions, quantities and weight.

Check confidence

Review detection quality and correct assumptions.

Plan the material

Use consolidated material requirements in the estimate.

Stock usage and material pricing

Tube, angle, channel & other stock						
Non-plate material stays separate from the sheet total.						
Stock source	CAD requirement	Stick length / quantity	Purchase / stick	Cost	Catalog	Confidence
Aluminum 6061-T6 · bar 4 × 0.25 · 144 in 1600-062-01-02-13-26.STEP	48 cuts · 4 in wide × 0.25 in thick · 119.58 linear ft 6061 Aluminum	144 11 sticks · 90.6% yield	110	\$1,210.00	Saved preset	low
6061 Aluminum · bar 8 × 0.25 · 144 in 1600-062-01-02-13-26.STEP	16 cuts · 8 in wide × 0.25 in thick · 27.42 linear ft 6061 Aluminum	144 3 sticks · 76.2% yield	225	\$675.00	Saved preset	low
6061 Aluminum · tube 2 × 2 × 0.18 wall · 240 in 1600-062-01-02-13-26.STEP	40 cuts · 2 × 2 in OD · 0.18 in wall · 211.17 linear ft 6061 Aluminum	240 12 sticks · 88% yield	240	\$2,880.00	Saved preset	low

Stock estimating: material requirements, stick usage and purchase cost

Multiple stock types

Sheet/plate, tube, angle, channel, bar and other stock.

Usage and cost

Review stick lengths, quantities, yield and cost.

Pricing control

Save catalog presets and edit purchase/selling prices.

Confirm material demand against the approved production package before buying or cutting.

A complete estimating workspace

Operation	CAD starting point	Hours	Shop rate / hr	Labor cost
Laser	0.5 hr - low 104 CAD bodies; flat cut geometry is not yet available	2	110 Default \$110.00/hr	\$220.00
Welding	20 hr - low 104 components - 104 structural pieces; weld length needs confirmation	3	100 Default \$100.00/hr	\$300.00

Operation labor: editable hours, shop rates and calculated labor values

Labor by operation

Enter hours and shop rates for each process.

More than material

Include outside services, overhead and adjustments.

Price and review

Apply margin; review cost, selling price and expected profit.

Save estimate drafts and quote variants, review them, then convert approved work to a project.

Quotation-level nesting

Understand material demand before committing to production.

01 Rectangular blank layouts

Use CAD envelopes and detected geometry to estimate sheet and stock usage.

02 Sheet choices and utilization

Review selected sheet presets, sheet count, square-foot usage, waste and cost.

03 Readable nest sheets

View numbered blanks with part names, sizes, quantities and per-sheet breakdowns.

04 Print for review

Print one nest or all nests. These are estimating layouts, not finished cutting contours.

Repeat parts and new releases

EMS-G FRAME · 8 EMS-G Frames

Rev A

in production

3 active releases

Release again

Edit repeat part

Files (0)

Export materials

Reprice now

PMP-10590 · PMP-10590-01 · 5 EMS-G Frames · Rev A · Qty 5

Release again asks for the quantity, creates a new job number, and leaves every existing floor release alone. The route, scaled labor budgets, files, and purchased-part BOM follow the new job; its due date is set 14 days out.

Repeat parts: release again, edit, files, material export and repricing

Keep the job knowledge

Retain route, materials, files, labor and purchased-part BOM.

Release again

Choose a new quantity and create a new job number.

Review the new run

Adjust dates and details; reprice against current costs.

Existing floor releases stay in place. Review any inactive processes before the next release.

Purchasing and job readiness

Keep material needs and outside work connected to the job.

01 Material requirements

Use the job's material and purchased-part information to prepare buying decisions.

02 Purchasing records

Track purchasing, reservations and receipts for the work being released.

03 Outside services

Include subcontracted processes and their costs in the job and estimate.

04 Readiness visibility

Keep waiting or blocked packages visible as material and outside work progress.

Files, drawing approvals and quality

Keep the production package available where the work happens.

01 Job files and viewers

Keep PDFs, drawings, images and CAD with the project; view or download them.

02 Drawing approval

Review drawings and approval status before the work is released.

03 Quality control

Use QC steps and records where the job calls for them.

04 Packing slips

Prepare packing slips and retain the job's completion records.

Capacity and shop reporting

Use the planned work and recorded time to see where attention is needed.

01 Capacity estimates

Compare planned workload with the shop's available capacity.

02 Labor detail

Review time by employee, job, process or station with date filters.

03 Management summaries

Review quoted, billed, labor and material figures across reporting periods.

04 Data for follow-up

Export reports to Excel and use completed jobs to inform the next estimate.

Quoted versus actual

Time by process

Process	Quoted hours	Actual hours	Difference	Cost basis	Quoted labor	Actual labor value
Welding	8.00	0.00	-8.00	\$100.00/hr · Quoted shop rate	\$800.00	\$0.28
SawCut	16.00	0.00	-16.00	\$100.00/hr · Quoted shop rate	\$1,600.00	\$0.00
Engineering	0.00	0.24	+0.24	\$110.00/hr · Quoted shop rate	\$0.00	\$25.91
Laser	0.00	0.00	+0.00	\$110.00/hr · Current shop rate	\$0.00	\$0.18
Saw Cut	0.00	22.80	+22.80	\$100.00/hr · Current shop rate	\$0.00	\$2,279.64

Total: 23.04 actual hours versus 24.00 quoted. Operator hours are added together, including overlapping work; these are job hours, not payroll hours. Labor is valued at shop rates, not employee wages.

Material usage and purchase cost

Enter actual quantities and total purchase costs, including purchased parts. Blank means unknown; enter 0 when none was used. Save to update differences.

Material / purchased part	Unit	Quoted qty	Actual qty	Qty difference	Quoted cost	Actual total cost	Cost difference
Aluminum 6061-T6 · bar 4 × 0.25 · 144 in	stock item	11.00		—	\$1,210.00		—
6061 Aluminum · bar 8 × 0.25 · 144 in	stock item	3.00		—	\$675.00		—

Compare the scope

Use the saved quote and quantity as the baseline.

Review the actuals

Check process hours, material usage and outside costs.

Keep the evidence

Adjust reviewed values while preserving raw clock records.

Quote-versus-actual review: process hours and material quantities

Record the reason and review history when correcting actual hours.

Direct costs and job profitability

Separate what the shop charges from what the job costs.

01 Employee cost and shop rate

Review employee pay cost separately from the shop's selling rate.

02 Overlapping work

Share elapsed labor cost across overlapping jobs while retaining original hours.

03 Complete the cost picture

Include materials and direct job costs; flag missing cost information.

04 Compare distinct totals

Keep quoted price, reviewed job cost and invoice subtotal clear.

The Invoice Pilot billing handoff

An optional connection to the separate Invoice Pilot app.

01 Bring the job details forward

Transfer linked customer/PO information, hours, materials, costs and billing totals.

02 Review an editable draft

Prepare the invoice in Invoice Pilot with the original Fab Pilot records protected.

03 Support partial billing

Partial invoices leave the job in Completed for the remaining balance.

04 Close the billing loop

Full invoicing marks the job billed and moves it to Job History; retries avoid duplicates.

Set up Fab Pilot for your shop

Configure access, station use and controls around your workflow.

01 Roles and permissions

Administrator, manager and employee access; control sensitive screens and actions.

02 Personal or shared access

Use personal web access or manager-paired shop stations with station and employee PINs.

03 Shop preferences

Configure processes, stations, rates and display choices, including high contrast.

04 Backup and recovery

Use backup controls, health alerts and separate-company restore. Automatic runs require an open, signed-in shop screen.



FAB PILOT

See your shop workflow in Fab Pilot

Walk through a quote, a progressive release, employee time and a completed-job review.

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Customer demos • Workflow consultations