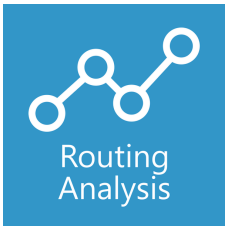
INSIGHT WORKS

ROUTING ANALYSIS

for Microsoft Dynamics 365 Business Central



OPTIMIZE PRODUCTION WITH ROUTING ANALYSIS TO REDUCE VARIABILITY AND ENHANCE COSTING ACCURACY.

Compare the run times recorded on finished production orders with what your routings expect, see how consistent each operation really is, and correct the routing on the spot.

Routing Analysis reads the operation times recorded on finished production orders and compares them with the times each routing expects. For every operation it reports the average actual run time, the difference from standard, and the standard deviation, so a planner can see both whether an operation is slower than planned and whether it runs the same way every time. When a standard is wrong, the planner corrects it on the same screen. Routing Analysis is also included in the Enhanced Planning Pack.

Why the standards hold up

Consistency, not just averages. An operation can hit its expected time on average while one run takes ten minutes and the next takes six hours. A standard deviation per operation shows that spread, which an average hides.

The gap between routing and reality, per operation. Average actual run time, average difference, and percentage difference sit beside the routing's own run time for every operation.

Fix the routing where you find the problem. Edit setup, run, wait, and move times on the line you are reading. The routing's Under Development status and recertification are handled behind the scenes.

Filters built for triage. Minimum average variance and minimum standard deviation thresholds, plus an Only Difference view, hide every operation that already performs as expected.

One routing, many items. Analysis works at the routing level across every finished production order that used it, so a routing shared by ten items is reviewed once.

Every routing on one page. Leave the filters blank to list every routing line in the system as a single editable page, which allows a mass edit across all routings.

Who's on it

Manufacturing Engineers
Own the routings, read the variability, and correct the standards.

Production Managers
Keep the schedule achievable by making expected times match the floor.

Operations Managers
Find the operations that hold up flow.

Cost Accountants
Rely on accurate routing times for labor and overhead absorption.

Quality Assurance Specialists
Treat time variability as an early signal of an inconsistent process.

Free to install and evaluate. Routing Analysis installs at no cost from Microsoft Marketplace, so you can try it in a sandbox before committing to production.

Backed by over 800 resellers. Insight Works works through a global network of more than 800 Business Central resellers who can help consult, implement, and support a deployment. **See the Insight Works reseller directory**.

ROUTING ANALYSIS

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ANALYSIS FILTERS

- Routing No. selects one routing; leave it blank to include every routing
- Prod. Order Start Date and End Date set the window; only finished production orders whose Finished Date falls inside it are counted
- Min. Average Variance hides operations whose average difference is below a threshold
- Min. Std. Deviation hides operations more consistent than a threshold
- Routing Line Display shows All Lines or Only Difference

OPERATION STATISTICS

- Number of finished production orders behind each routing line
- Average actual run time, average actual difference, and percentage difference against the routing's run time
- Standard deviation per operation, measuring how consistent the run time is from order to order

IN-PLACE ROUTING EDITS

- Setup Time, Run Time, Wait Time, and Move Time are editable directly on the analysis lines
- Routing status changes to Under Development and back to Certified are handled behind the scenes
- Run Time Unit of Measure Code can be added to the filter settings through Personalize or Design, for shops that mix minutes and hours

BULK ROUTING MAINTENANCE

- With every filter blank and All Lines selected, every routing line in the company appears on one editable page

WHERE IT STOPS

- Reports variability; it does not explain the cause
- Standard deviation per operation, but no control charts, control limits, Cp, or Cpk
- Does not schedule, and does not report cost variance on a production order
- Few production orders give weak statistics; a standard deviation across two orders is not a process measurement

BUSINESS CENTRAL LICENSING

- Free to install and evaluate from Microsoft Marketplace; evaluation typically happens in a sandbox
- Subscription, licensed per company
- Works with Business Central Essential and Premium user licenses, as listed on the app page
- Also included in the Enhanced Planning Pack

INTEGRATION & INSTALLATION

- Installs from Microsoft Marketplace like any other Business Central extension
- Reads the capacity data Business Central already posts against production orders; no export or separate reporting tool
- Corrected routing times are saved to the standard Business Central routing, so costing and scheduling use them

PREREQUISITES & COMPATIBILITY

- Uses Business Central manufacturing: production orders, routings, and capacity ledger entries
- Actual operation times must be recorded on finished production orders; without them there is nothing to compare. Shop Floor Insight is one way to capture them
- Looks backward only: finished production orders inside the date range, nothing in progress or forecast
- Business Central online and on-premises
- English only
- Editing requires permission to modify routings, including certified routings; plan for this in change-controlled environments

SUPPORT & RESOURCES

- Knowledge base at kb.dmsiworks.com, including the published calculations behind each statistic
- Supported by Insight Works, with consulting and implementation through resellers

DATA & PORTABILITY

- Routing edits are saved to the standard Business Central routing
- Source data stays in Business Central's own production order and capacity ledger tables; no export step

ALSO FROM INSIGHT WORKS

Insight Works builds 30+ apps for Microsoft Dynamics 365 Business Central, concentrated in these areas of manufacturing and distribution. If Business Central has a gap, there's a good chance we already have a solution.

Warehouse & Inventory Management
Barcode-driven receiving, put-away, picking, cycle counting, and license plate handling.

Shipping & Fulfillment
Carrier rate shopping, pick-to-ship execution, and shipment tracking.

Quality Control & Compliance
Inspections, test management, and quality documentation.

Production Planning & Scheduling
Capacity-aware scheduling, planning worksheets, and demand forecasting.

Shop Floor Execution & Maintenance
Shop floor data capture, machine maintenance, and production analysis.

Point of Sale & Data Tools
Counter sales, document attachment, label printing, and bulk data import/export.

See all Insight Works apps for Business Central

VISIT WEBSITE

WATCH DEMO

Available on Microsoft Marketplace

Scan to visit

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