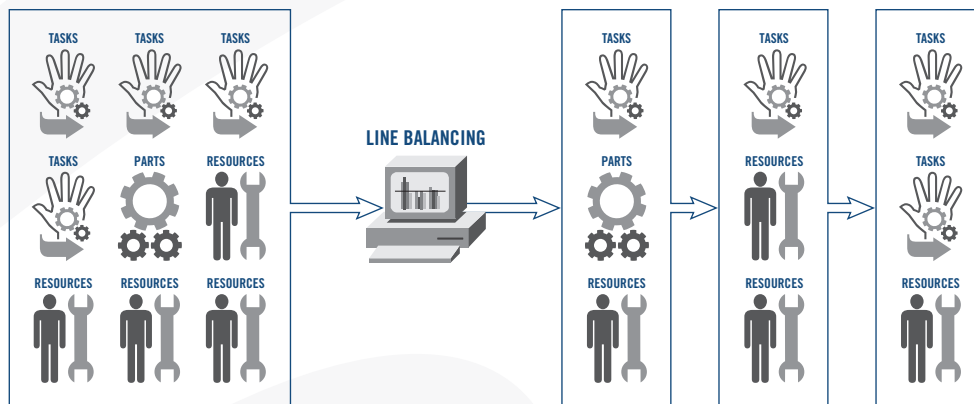


THE PROBALANCE MIXED-MODEL LINE BALANCING APPLICATION WILL IMPROVE YOUR LINE EFFICIENCY UP TO 20%, REDUCE LABOR BY NEARLY 10%, AND HELP ELIMINATE DEPLOYMENT ERRORS.

If you are a manufacturer of complex assemblies involving 100's, to even 1,000's of parts and processes with an extensive portfolio of model and option configurations, then ProBalance is for you. ProBalance was designed by industrial engineers, to create the most efficient single and mixed model assembly lines quickly and easily, while minimizing errors often found during deployment. Whether you are designing new assembly lines, adding new products and/or product enhancements to existing lines, or just changing your product mix and production rate, ProBalance will ensure the most efficient designs possible.



PROBALANCE WILL IMPROVE LINE EFFICIENCY AND LAUNCH ACCURACY.

- Increased Line Throughput by 22%
- Reduced labor by 10%
- Cut Assembly Line Operating costs by \$50K per month
- Saved over 2 weeks of engineering time per re-balance, and nearly eliminated deployment errors related to task, part, and resource placement.

LINE BALANCING OPTIMIZATION, CHARTING AND REPORTING INTEGRATED WITH MS EXCEL

If you are currently doing your line balancing studies in MS Excel then you will greatly appreciate the integrated method of simultaneously updating the individual spreadsheets of Tasks, Stations, Resources, Operators, Precedence, Models, Options, Parts and Part Zones. Whether you use the automatic assignment algorithms, or manually allocate your tasks and resources, ProBalance's intuitive interface and integrated charting and reporting features will make creating and presenting new assembly designs quick, simple and accurate. ProBalance can even download your design scenarios to Proplanner's popular Workplace Planner application so that you can automatically evaluate Model/Option sequence to the line, calculate station cycle times and diagram operator walkpaths in AutoCAD.

Proplanner was founded by Dr. David Sly, a world renowned expert in Process and Plant Engineering systems that extend and integrate the capabilities of current applications such as AutoCAD and Excel. Since Dr. Sly invented the first CAD-based material flow analysis application 20 years ago (a predecessor to Flow Planner), he has created a suite of powerful and integrated applications for Time Estimation, Process Management, Ergonomics Assessment, Line Balancing, and Workplace Design.

3-STEP PROCESS

USING PROBALANCE ON YOUR NEXT ASSEMBLY LINE CHANGEOVER IS AS SIMPLE AS 1, 2, 3.

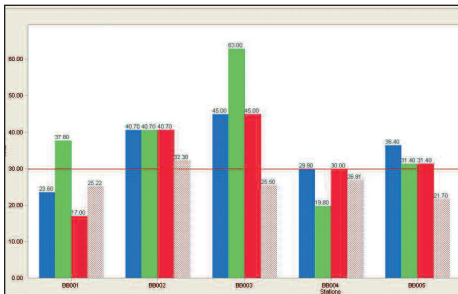
1. Begin by creating, or importing, a spreadsheet of sequenced process tasks and their associated process times, resource requirements and model/option dependencies. This information can be imported from Proplanner, or other popular process databases, or even authored within ProBalance's spreadsheet interface.
2. Go to the Stations and Resources tabs to define which resources are fixed to what stations. Then proceed to the Models and Options tabs to define their "take rate" (probabilities of occurrence). Optionally, you can even define task groups (those that must move together), or even graphically define detailed task precedence.
3. Now select the "Auto Balance" option and pick whether you want the application to determine the number of stations required for a fixed TAKT time or if you want it compute the TAKT time for a fixed number of stations. Once ProBalance gives you the station assignment graph and task listings, you can manually adjust your task and resource assignments and generate your task and station utilization reports to help you sell and implement your new design.

IF YOU HAVE A SPREADSHEET OF ASSEMBLY LINE TASKS AND TIME, THEN YOU ARE LESS THAN 1 HOUR FROM AN EFFICIENT, ACCURATE AND WELL DOCUMENTED ASSEMBLY LINE PLAN.

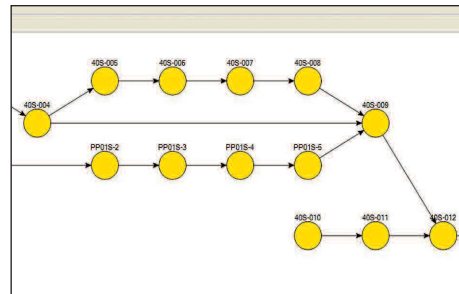
THE QUICKEST, EASIEST AND MOST ACCURATE WAY TO ASSIGN TASKS TO STATIONS.

ProBalance consists of powerful automatic optimization algorithms integrated with manual drag-and-drop task assignment features which are combined with intuitive charting and reporting and built around a familiar spreadsheet interface.

LINE BALANCE TOOL			
FUNCTION	FULL VERSION	LT VERSION	FREE TRIAL
Single Model Balancing	X	X	X
Mixed Model Balancing	X		
Resource Constraints	X	X	X
Multiple Work Zones Within a Station	X		
Multiple Operators Within a Station	X		
Two-sided Lines	X	X	X
Spreadsheet Interface	X	X	X
Take Rate Calculated from Model/Option Mix	X		
Task Grouping	X		
Integration with Workplace Planner	X		
Balancing Station View	X	X	X
Print Basic Reports	X	X	
Enhanced Reporting with Crystal Reports	X		
Lean Charts & Reporting	X		
Report Customization	X		
Enhanced Precedence Authoring	X		
Ergonomics Factoring	X		
Max Number of Stations	UNLIMITED	10	10
Max Number of Tasks	UNLIMITED	250	50
Save Input and Results	X	X	
Cut, Copy and Paste Data	X	X	
Product Updates & Phone Support	\$750/Year	\$125/Hour	
Email Support	X	X	
Web Training	\$125/Hour	\$125/Hour	
	\$5,000	\$495	FREE



Balance



Precedence

ID	Description	Net Time	Wt Time	Violations	Models
40S-010	Pull tie wrap tight ar	15.00	4.50		Medium Pump
40S-002	Press U-Cup into ho	6.60	1.98	M	Large Pump
40S-001	Lube U-Cup	9.00	9.00	P R	
40S-003	Lubricate and press	8.00	8.00	M	
40S-004	Install motor into ho	5.80	1.74	R	Medium Pump

Violations