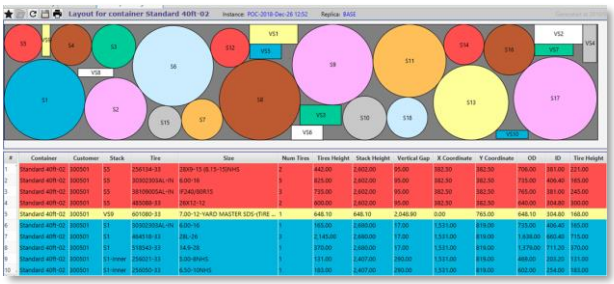
Container Load Optimizer: Maximize space utilization



Generate optimal load plans for different customer orders to save on shipment costs

Loading Cylindrical Products

- **Geometry based loading** … consider the circularity of tires and the specific dimensions of containers along with tolerances
- **Mixed SKUs** … diverse set of tires with different dimensions that could present in a load
- **'Tire in tire'** … consider loading tires inside outer tires based on gap tolerance
- **Priority** … tires of a specific type need to be loaded first
- **Sequence** … consider specific order of loading tires to enable easy unloading at the destination
- **Stacking constraints** … the size & weight of a tire that can be stacked above each tire

- *Traditional loading solutions work with products with cuboidal dimensions & cannot provide optimal loading plans for cylindrical products*
- *Spashta's customized Solver has been specifically developed for this application to create the best loading plan for cylindrical products*

"Take >5% cost out of your truck load expenses through optimized container loading while meeting schedules"

Spashta container optimizer solution-process architecture

Inputs

- Dimensions of the Container(s) & the Load
- Shipment quantities
- Customer details
- Shipment rules

Optimizer

- Customized meta-heuristic that balances optimality & speed
- Based on research & Spashta's expertise in optimization algorithms

Output

- Load Plan … what load goes into each container
- Visualization of placement of the load in the container

What-if's

- 'What-if' Scenario Planning
- Relevant parameters & rules to perform what-if plans or re-plans

Release finalized container layout plan for loading

Spashta Container Load Optimizer

Optimizer … based on academic research & customized for container loading problem

Visualization… *easy-to-understand* view of loading plans for planners & loaders

Agility … perform rapid "*what-if scenarios*", quickly customize constraints, etc.

Highlights

- Proprietary algorithms … have been developed for 'geometry based loading' containers
- Visualize … multidimensional visualizations enables easy to understand loading plans
- Custom KPIs … customize measures, KPIs, dashboards & analytics reports
- Export to PDF & MS Office … easily display & export to various formats for execution

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