



# Batch With Runs

Batch splitting techniques for efficient production planning and execution based on machine’s capacity.

Batch with runs enables manufacturers to optimize large batch production by intelligently splitting batches into smaller segments called runs based on the actual work center or machine capacity. Each machine or work center has its processing capacity. When the production quantity exceeds a machine’s capacity, the batch with runs feature automatically splits the batches across multiple runs based on the available machine’s capacity, ensuring that production schedules remain streamlined. Batch With Runs within Process Manufacturing solution for Acumatica helps simplify complex batch operations, enhancing efficiency and flexibility through intelligent capacity-based splitting.

## Key Features Include

- Define the maximum capacity of each work center, with the ability to update it during formula and BOM creation.
- Select from a range of batch splitting techniques at the master configuration that best suit your manufacturing process.  
*Example: Quantity to produce – 250kg, work center capacity – 100kg per run.*

Batch Splitting Technique	How it works?
Create runs to fulfill required quantity	Calculate batch runs based on the quantity required to produce. (Splits: Run 1 – 100, Run 2 – 100, Run 3 – 50)
Round quantity to next full run	Runs based on required quantity to produce and round off the quantity to the quantity of next run. (Splits: Run 1 – 100, Run 2 – 100, Run 3 – 100)
Equally divide quantity between runs	Quantity to produce is equally divided among the runs. (Splits: Run 1 – 83.33, Run 2 – 83.33, Run 3 – 83.33)

- Select or update the batch splitting technique at the Bill of Materials (BOM) level for a formula or recipe to fit specific production requirements.
- Initiate a batch production transaction through Super Batch using a batch with runs functionality, where the batches auto-split into runs based on the capacity splitting technique selected to create sub-batches.

## Why Batch With Runs?

- Optimize equipment utilization by eliminating under- or overutilization of work centers, thereby maximizing throughput.
- Simplify production planning and scheduling with automated calculations and batch splitting, reducing errors caused by manual processes.
- Flexibility to quickly adapt to different production needs and run sizes.
- Ensure consistent quality across batches with standardized sub-batches.