shelfbot

Shelfbot Data Dive Specification v2

December 10th, 2025

1. Introduction

This document outlines the data required by Shelfbot to accurately estimate and configure the ideal solution to meet a customer's specific SKU and order profile. Customers are requested to provide as much data as possible to help us maximise storage density and operational efficiency.

Providing the following data allows Shelfbot to design and quote an optimal system for your site. Shelfbot can provide an Excel or Google Sheets template on request to simplify data export

2. Purpose & Scope

2.1 Purpose

The purpose of this document is to collect essential customer data that will be used to configure the Shelfbot System effectively.

2.2 Scope

This specification covers the data submission requirements for the following

- SKU master data with Stock on Hand
- Outbound Order History

Shelfbot uses this data to:

- calculate the number of bins and racking aisles required for your current stock on hand
- analyse SKU velocity and order profiles (lines per order, units per SKU, ABC classification),
- estimate the number of robots and pick stations required to hit your throughput targets,
- model future growth scenarios where requested

3. Data Requirements

3.1 SKU Master

Customers should submit SKU data in CSV, Excel, or Google Sheets format. Please ensure SKUs are unique; dates are in a consistent format; quantities are positive integers; and stock on hand matches your latest cycle count where possible.

Include as many of the following fields as possible:

FIELD NAME	DESCRIPTION	REQUIRED	PREFERRED
SKU	Unique identifier for the product	☑	☐
Description	Product name or description	☐	☑
Unit Length (mm)	Length of a single unit in millimeters	☐	☑
Unit Width (mm)	Width of a single unit in millimeters	☐	☑
Unit Height (mm)	Height of a single unit in millimeters	☐	☑
Unit Weight (g)	Weight of a single unit in grams	☐	☑
Carton Length (mm)	Length of the carton in millimeters	☐	☑
Carton Width (mm)	Width of the carton in millimeters	☐	☑
Carton Height (mm)	Height of the carton in millimeters	☐	☑
Carton Weight (g)	Weight of the carton in grams	☐	☑
Carton Units	Number of Units in each carton	☐	☑
Stock on Hand	Total number of units stock on hand	☐	☑

Note: Measurements should be provided in millimeters (mm) and grams (g). However, centimeters (cm) and kilograms (kg) are also acceptable. Please use a single unit set consistently across the file.

3.2 Outbound Orders / Sales Orders

Customers should submit outbound order data in CSV, Excel, or Google Sheets format, covering ideally 12 months (minimum 30 days) of sales history. If seasonality is significant, please include a period that covers your peak season. If necessary, customer names and addresses may be removed or anonymised; we only require order-line detail.

The required fields are:

FIELD NAME	DESCRIPTION	REQUIRED	PREFERRED
Date	Order date	☑	☐
Order Number	Unique order identifier	☑	☐
Line Id	Unique order line identifier	☐	☑
SKU	Unique identifier for the product	☑	☐
Quantity	Order Line Units per SKU	☑	☐

By providing this data accurately, customers enable optimal configuration and performance of the Shelfbot system.