Configure, Produce, Deliver, How Cadify Powers Drop Ship at Scale

Customization as standard – profitability as standard.
Cadify makes mass customization possible – without sacrificing flow, profitability, or quality. Standardization and customization work seamlessly together in one system.

Executive intent

This article speaks to three groups at once, manufacturing leaders who sell make to order, store owners who want a clean ecommerce flow, and partners who will extend the ecosystem. The message is simple, Cadify and nopCommerce form a reference architecture for customized drop shipping, from configuration to carrier, with quality and traceability built in.

System blueprint, end to end

1) Configure, what the customer does

The buyer configures a product in the browser. Parameters and rules come from engineering, not from ad hoc scripts. Cadify runs SolidWorks plus Excel logic to guarantee feasible outputs. Every choice updates geometry, cost drivers, and constraints in real time. Think sheet metal parts for laser cutting and bending, HVAC components with dimensional rules, 3D printed housings with material options. The result is a single, valid configuration that is ready for production.

2) Commit, what the buyer approves

Before the order is accepted, Cadify generates the full digital twin pack. That includes BOM, cut lists, bend tables, drawings, and attachments like work instructions and data sheets. The buyer sees the scope and signs off instantly, no gray areas, no silent changes. This approval becomes the legal and technical anchor for everything that follows.

3) Orchestrate, what nopCommerce controls

nopCommerce acts as the headless commerce backbone. It owns catalog, roles, tiered pricing, checkout, taxes, and payment. Cadify writes structured attributes and the documentation payload to the order. Based on product rules and partner routing, the store sends the order to the selected manufacturer. Routing, shipping, and labeling follow the customer preference. Use their carriers, their account numbers, their label formats, or their TMS, your choice.

4) Handoff, what the manufacturer receives

The third party manufacturer receives a clean, production ready package. No email fishing, no manual redraw. Files and metadata are organized by operation, for example laser program, bend

sequence, weld notes, finishing, packing. Traceability identifiers carry through every document and file. For 3D printing, the pack includes print ready meshes and post process specs. Everything is generated by rules, so repeat orders are identical and controlled.

5) Produce, what quality relies on

Production runs with fewer questions and fewer stops. Drawings and model views match. Dimensions are anchored. Revision markers are explicit. If the manufacturer runs ERP or MES, Cadify's data structure is ready for API handoff. If not, the PDF and DXF set is still complete. The point is flow, no rework because the data was ambiguous.

6) Ship, what the customer expects

Shipping is executed by the selected drop-ship contractor, aligned with your routing policy. Cadify supplies a complete customized document and data pack to that contractor. Tracking events return to the selected drop-ship contractor on the same order, so the end user receives clear status updates without manual follow up. Visibility stays continuous and predictable from confirmation to handover.

7) Close the loop, what improvement needs

Actuals come back, dates, exceptions, and quality notes. The system compares plan to reality. Engineering can tighten rules, sales can set lead time expectations that stick, partners can see where to add value. Continuous improvement is built into the data model.

Why this architecture is different

- **One model of truth, not a file chase**
  Cadify regenerates every output from the same rule set. What the customer saw is what the plant makes.
- **Mass customization without chaos**
  Excel rule logic gives engineers a no code way to enforce limits and dependencies. SolidWorks models carry the geometry. The web stays fast and simple.
- **Commerce that routes to production, not to a mailbox**
  nopCommerce is the reference backbone. Orders flow by API. Roles and pricing stay in one place. Partners plug in where they add value.
- **Industries that fit today**
  Sheet metal workshops, laser cutting, bending and welding. HVAC components with project specific dimensions. 3D printed parts with material and finish choices. These are obvious wins for customized drop ship, starting now.

Risk, handled up front

- **Data ownership and security**
  Cadify runs secured and siloed. Customer data, product rules, and documents are isolated by tenant with authenticated access only.
- **Traceability and responsibility**
  Deep integration into third party manufacturers is required. Each order carries a unique trace chain across BOM items, drawings, files, and shipments. Roles and handoffs are explicit, no gray zones.
- **Scope certainty**
  Instant documentation is generated and must be positively approved by the buyer before the order is accepted. What is approved is what is built.
- **Returns and warranty**
  Cadify supports insurance options for returns and warranty handling. With traceability in place, cause analysis is faster and fair.

What each reader gains

- **For manufacturing leaders**
  Higher first pass yield, stable lead times, fewer clarifying emails, less rework, a cleaner order book. You sell more configurations without adding engineering headcount.
- **For store owners**
  A storefront that sells real variants with confidence, not estimates. Checkout ties to a production ready payload. Routing and carrier choices respect your policy.
- **For partners**
  A platform to deliver rules, integrations, and services. Clear roles, clean interfaces, repeatable value. You scale with your customers.

What to do next

Drop shipping is a revolutionary opportunity for complex, customized parts. Cadify makes it viable, controlled, and profitable. Start with one high value product, prove the loop, then scale your catalog with confidence.

Talk to us at Cadify.no for a walkthrough and a pilot discussion.