

ProMould – Comprehensive Master Specification & Build Authority

1. Executive Summary

ProMould is a production-grade Injection Moulding Production Operating System designed to replace human memory, spreadsheets, whiteboards, and fragmented tooling with a single deterministic, auditable, and role-driven system for real factory environments.

2. Core Design Principle

If a human normally has to remember it, calculate it, chase it, reconcile it, or remind someone about it, ProMould must do it automatically, deterministically, and audibly.

3. User Roles & Responsibilities

- 1 Production Manager – Full visibility, approvals, overrides with audit, analytics, exports.
- 2 Setter – Machine setup, mould changes, maintenance checks, corrective actions.
- 3 Operator – Run machines, log production, scrap, downtime.
- 4 Material Handler – Issue materials, returns, shortages.
- 5 Quality Control – Inspections, holds, releases, quality audits.

4. Core Systems Overview

- 1 Machine Management with live counters
- 2 Mould Management (Digital Mould Passport)
- 3 Job & Production Planning
- 4 Maintenance Checks
- 5 Stock & Inventory
- 6 Tool Management
- 7 Tasks, Alerts, Shift Handover
- 8 Analytics & Mobile Execution
- 9 Audit & Compliance

5. Authority Statement

This document is the authoritative reference for ProMould and may be used as a build contract for autonomous agents or development teams.