KvalCAM®

Supercharge Your Production

KvalCAM is the unified machine platform from Kval that takes our industry leading CNC door equipment to the next level. Developed specifically for door manufacturers to ease the programming process of hardware templates and door jobs, while also giving the customer complete control over tooling selection, calibration, and a central database that can be shared across different machines and even different facilities.

01	02	03	04
Templates	**Door jobs**	**Linked machines**	**Tooling control**
Hardware defined without G-Code	Saved to the library in under a minute	One database, unlimited plants	Same file, same door, any tools

01 — TEMPLATES

Easy & Intuitive Template Creation

KvalCAM allows customers to easily create any hardware template without knowledge of G-Code: simply define the shapes, sizes, and locations of required machining and let the software do the rest.

Complicated hardware templates such as Mortise Locks, Exit Devices, Edge Guards, Flush Bolts, Hidden or Olive Hinges, and Overhead Closers are easy to create and modify.

- Mortise Locks
- Exit Devices
- Edge Guards
- Flush Bolts
- Hidden Hinges
- Olive Hinges
- Overhead Closers

Door data such as bevel, thickness, swing, and other attributes allow a single lock template to be used on any door size, swing, or bevel configuration.

3-1/2	3.5	= a + b	$var
FRACTIONS	DECIMALS	EQUATIONS	VARIABLES

Use fractions, decimals, equations, and even create variables in your custom templates, greatly simplifying the creation and editing processes. This also helps to minimize, or even eliminate, potential mistakes when interpreting hardware manufacturing templates.

KvalCAM can automatically center face plates, pockets, and bore holes on equipment with the thickness measurement option. Locks, lights, and hinges are always measured to the top of the door for both right-hand and left-hand doors. KvalCAM comes preloaded with sample templates—or “feature groups”—of all types of commercial and architectural hardware.

02 — DOOR JOBS

Simple Door Job Creation & Management

<1 min to define a door and save it to the library

Customers simply define the width, length, thickness, bevel, and swing of their door then add hardware templates from their feature group library. Doors can be easily defined with hinges, locks, light cutouts, etc., and saved in the door library in under a minute. The template and door creation can be done offline in an office to maximize equipment efficiencies. Many customers utilize the API to auto generate door files using data from their order entry system.

03 — CONNECTED CELLS

Link Multiple Machines

KvalCAM links multiple machines together, optimizing and controlling the operations of each machine. The Face SS, Edge SS, DL-NCX, and Vision Feeder/Stacker are combined into the Vision Line for a high capacity architectural cell. The EFX can be combined with the DL-NCD for a low cost, yet feature-complete manufacturing cell.

Vision Line — HIGH CAPACITY ARCHITECTURAL

Face SS + Edge SS + DL-NCX + Vision Feeder/Stacker

EFX + DL-NCD — LOW COST, FEATURE-COMPLETE

EFX + DL-NCD

04 — DATA & INTEGRATION

Robust Data Backbone & Software Interoperability

Unify your machinery by tying it to KvalCAM's robust backend database, having a single source of data frees you to develop your products without wasting time duplicating work. You can connect as many KvalCAM compatible machines as needed across unlimited plants.

With the built-in REST API the full power of KvalCAM is under your control: integrate your own systems with KvalCAM's door jobs and libraries, connectible by any programming language or service that supports HTTP requests. Kval Architectural Equipment, Exterior CNC Equipment, and the Commander 3 Pre-hanging Line can be fully automated with a barcode system, with door files generated by data in your order entry system.

> **Payback for equipment becomes exponential as labor is saved in the manufacturing process and in the office.**

DATA FLOW: Order entry → REST API → KvalCAM database → Machines

05 — TOOLING

Complete Calibration & Tooling Control

Customers fully control the tools used and calibration is simple and quick on the KvalCAM screen. Kval machines come with standard tools, but customers have the ability to change the tool type, length, diameter, and even machining parameters.

KvalCAM generates the machining code when the door job is entered using the tools available in the machine. Customers can swap out tools and the same door file will produce the exact same machined door. KvalCAM even has a tool path preview that shows what tools will be used and the order of operation.

INCLUDED WITH

KvalCAM machines

Currently KvalCAM is included with the following machines, but as we further develop the platform's capabilities this list will grow.

990-APEX	Face SS	Edge SS	DL-NCD	DL-NCX	Commander 3
Vision System	EFX	Endeavor	MLX	965X	KVAL