

# DL-NCD

**LIGHTS OUT OPERATION, EXCEPTIONAL QUALITY**

## Reduce Your Labor Costs

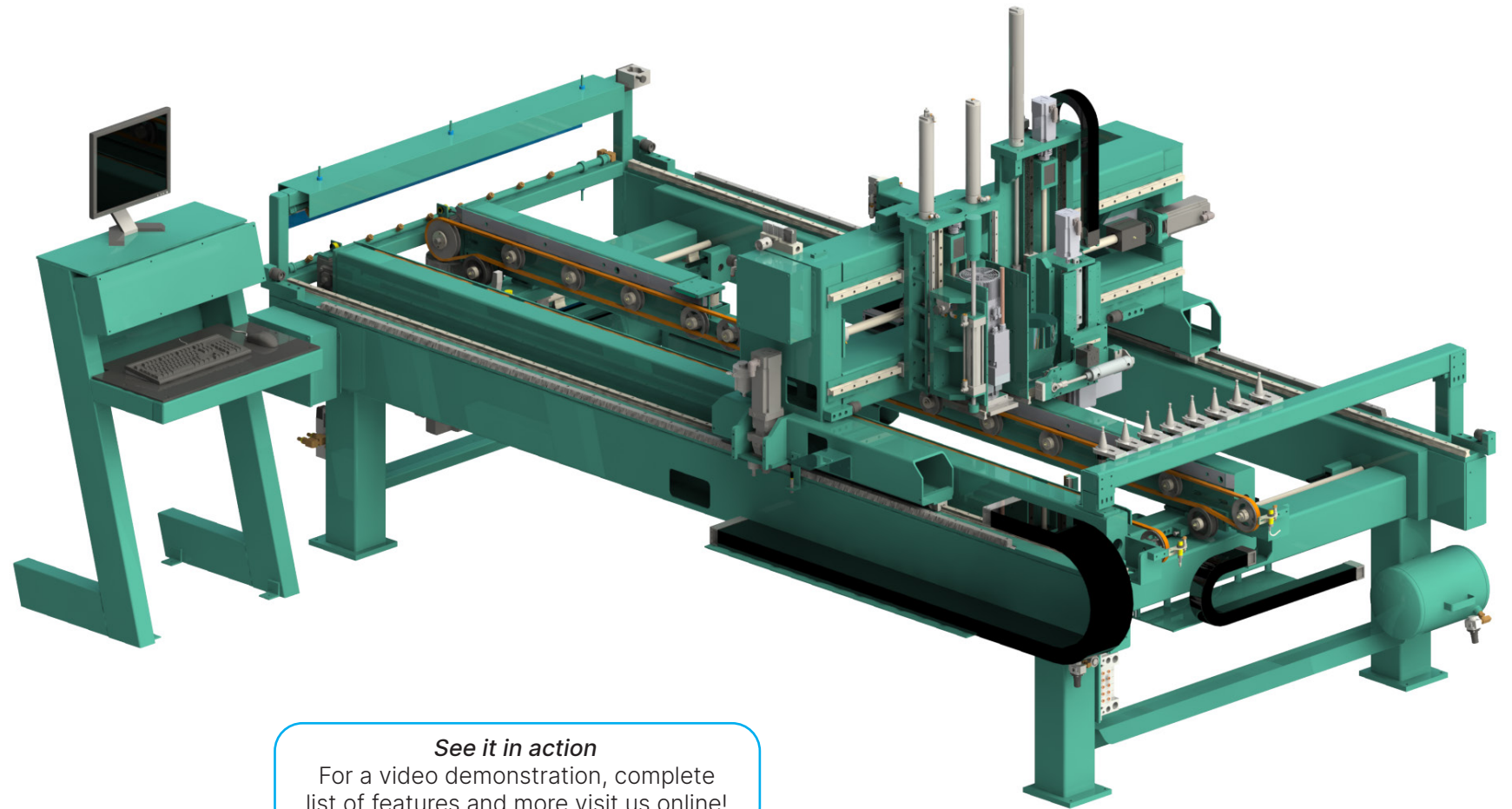
Every Manufacturer's dream is a high quality repeatable process that can produce products without human resources. Kval's DL-NCD combined with the revolutionary KvalCAM can make this dream a reality for exterior door manufacturers and distributors alike.

With our CNC Lock Option now available, coupled with KvalCAM software, the DL-NCD Light Cutter drastically increases efficiency while producing the industry's highest quality exterior doors. The DL-NCD automatically feeds in a door, clamps and measures the door, then runs the CNC machining cycle. With a mounted barcode system and automated Kval door feeder/stacker combination, a complete stack of doors can be run without an operator ever being present.

## Powerful KvalCAM Software Platform

The KvalCAM platform is easy to use and gives the customer complete control of programming all locks, door lights, viewers, on different door types without needing to know G-Code. Programming can be done in the office or on the machine with a connected database. Ovals, diamonds, and other special light patterns can be created by the customer with a CAD drawing of the shape and directly importing into our system. Most other manufacturers charge for special G-Code programs that can also delay production when new shapes are required.

Labor can be saved on the production floor and in the office by using the API of KvalCAM to directly create door files from a customer's order entry system. The lock type, light opening, door size, and even door type can be automatically loaded into the door file from a customer's order entry system saving time and reducing mistakes.



### *See it in action*

For a video demonstration, complete list of features and more visit us online!

## Industry Leading Quality and Innovation

The DL-NCD utilizes a powerful 10 HP main spindle motor for fast and accurate face work on exterior doors. The door is clamped with the servo motor from the side to prevent door movement. The length of every door is measured to assure exceptional accuracy in lock and light locations, even with slight variances in length from door to door. The DL-NCD will notify the operator if the length is out of specification. A separate encoder measures the door width at the lock location to provide extremely accurate face plate depths and cylinder hole backsets.

Steel and fiberglass foam doors will have the light cut out punched out, while wood door light cut outs will be automatically machined with a relief cut to prevent tear out.

The DL-NCD has an automatic tool changing system with 8 tool slots. The customer can utilize tools for steel, fiberglass, or wood doors. Each tool has individual settings for RPMs and feed rates that are controlled by the customer. Each door file is specified by material type and the proper tool configurations are automatically used.



**The World's Most Advanced Door Machinery**  
Since 1947

3 HP Lock Edge motor (*pictured*) can machine different size faceplates for both the lock and deadbolt and can even machine mortise or pocket locks

With KvalCAM locks and light opening are easy for customers to program without the knowledge of G-Code. Even ovals and special light patterns can be programmed by the customer

Clamps door from sides so door cannot move compared to vacuum systems

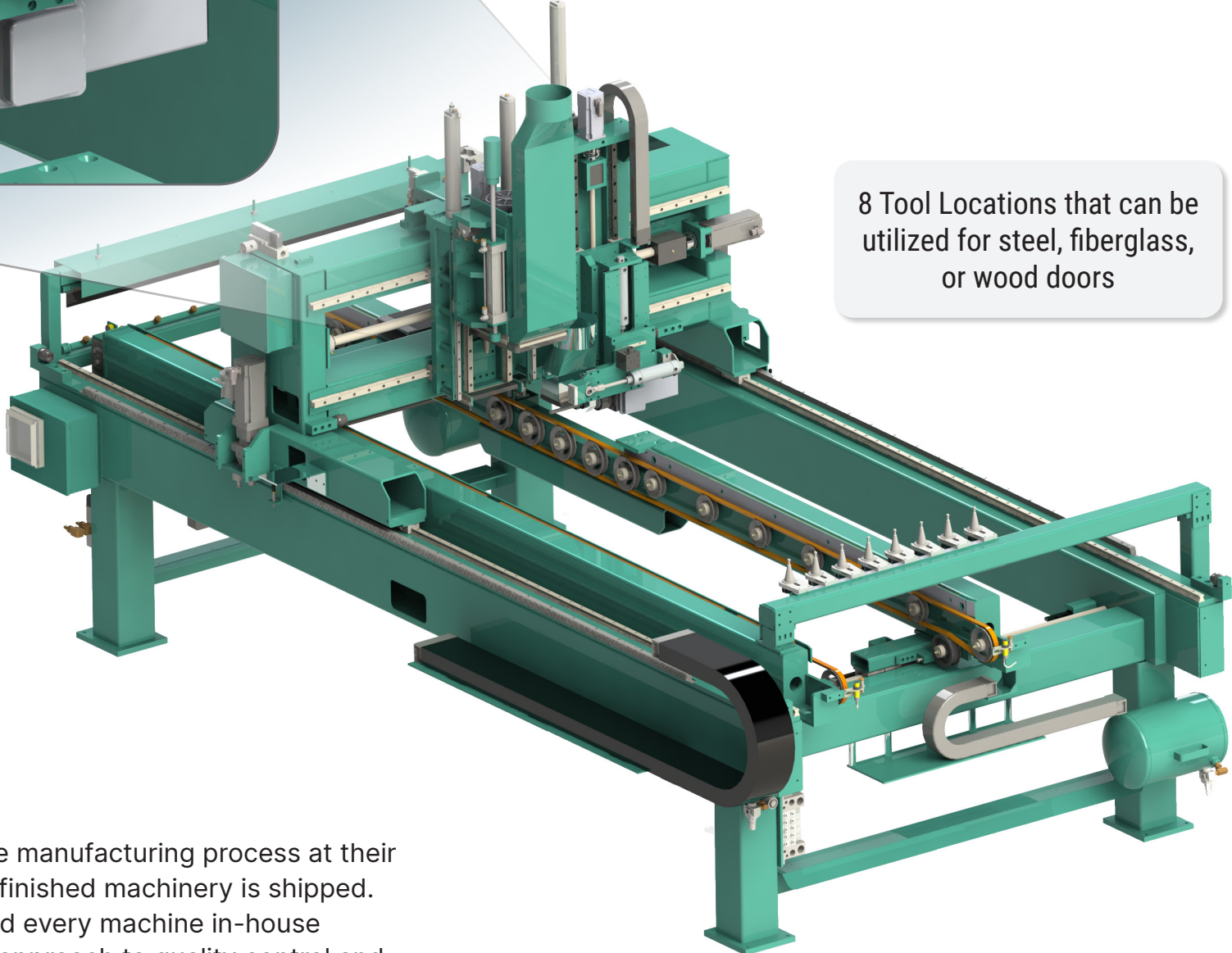
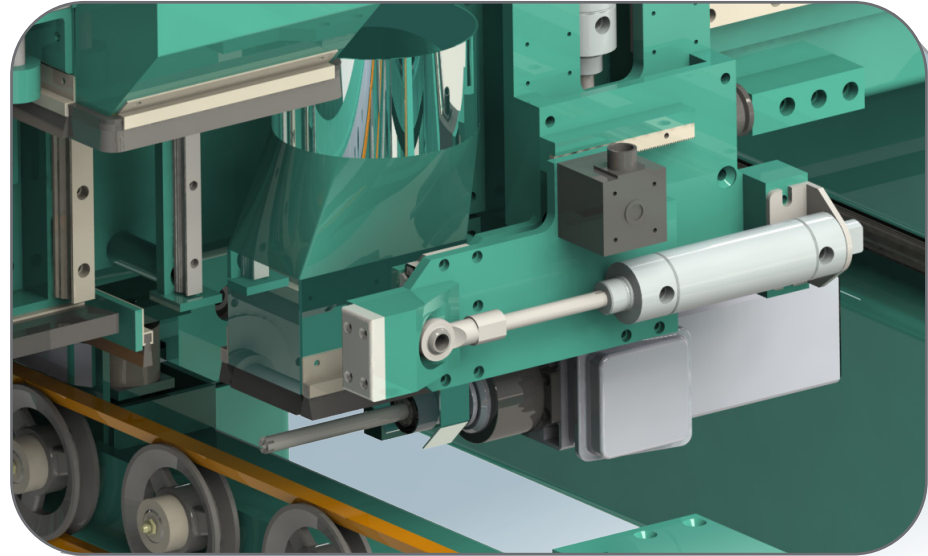
10 HP Main Machining Head with HSD tool changer, upgradeable to 13.5 HP

An encoder measures the door width at the lock location to provide extremely accurate face plate depths and cylinder hole backsets

8 Tool Locations that can be utilized for steel, fiberglass, or wood doors

Every door is measured in length to accurately locate the lock and door lights from the top of the door

Steel Doors and Fiberglass doors can be in the same stack, and KvalCAM will automatically change the tools to the correct door type based on the door file information



**The Kval Advantage**

Kval differentiates itself within the industry by controlling each step of the manufacturing process at their facility on the west coast of the United States: raw steel is received, and finished machinery is shipped. Kval designs, cuts, machines, welds, paints, wires, and programs each and every machine in-house using the best components and materials available, enabling a hands-on approach to quality control and reducing unforeseen complications caused by outside vendors.