

Panel Shop Automation Solutions



Your Productivity – our Priority



**INCREASE
PRODUCTIVITY
UP TO 40%**



**SLASH TIME
AND COSTS
BY UP TO 75%**



**DELIVER
UNCOMPROMISING
QUALITY**

Your success is our business.

We are committed to helping you be more productive and profitable. Our comprehensive portfolio of nVent HOFFMAN Panel Shop Automation solutions are designed to help you.

Get the automated edge

Our Panel Shop Automation solutions simplify electrical engineering and drive productivity. They can help you precisely machine holes and cutouts, optimize DIN rail and cable duct cutting, and reduce wire processing time up to 75%.

All so you can be more competitive and efficient – and do more business faster.

WHY AUTOMATE MODS?

ELIMINATE TIME-CONSUMING & COSTLY MANUAL METHODS



EASY TO USE

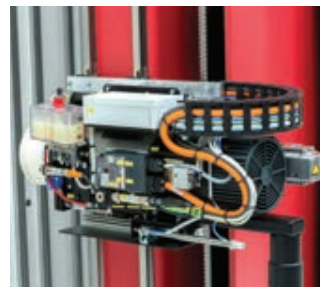


CAD system and integrated library with enclosures and symbols to make drawings fast and easily, to be automatically converted to machine code.



State-of-the-art controls from Beckhoff® or Siemens®.

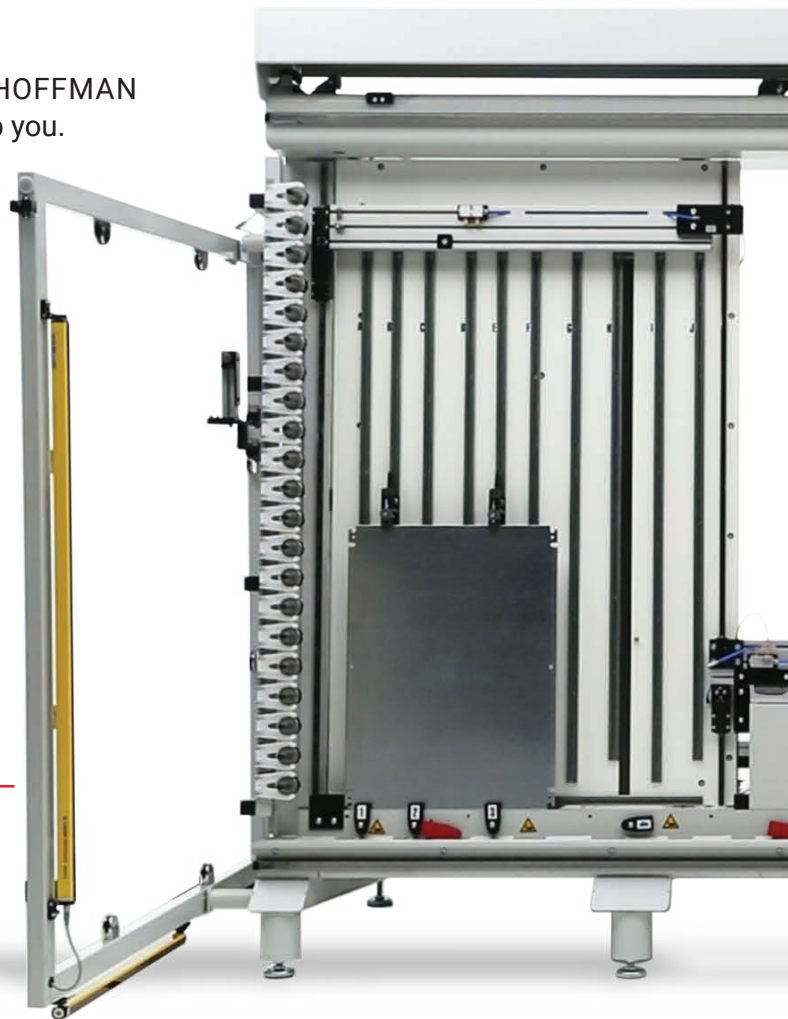
BEST-IN-CLASS CUTTING SPEEDS



High frequency spindle drive enables precise and fast material processing.



Minimal lubrication system extends tool life without creating a mess.



ModCenter

Modifications
made easy

- ✓ Reduce lead times
- ✓ Improve quality
- ✓ Lower costs



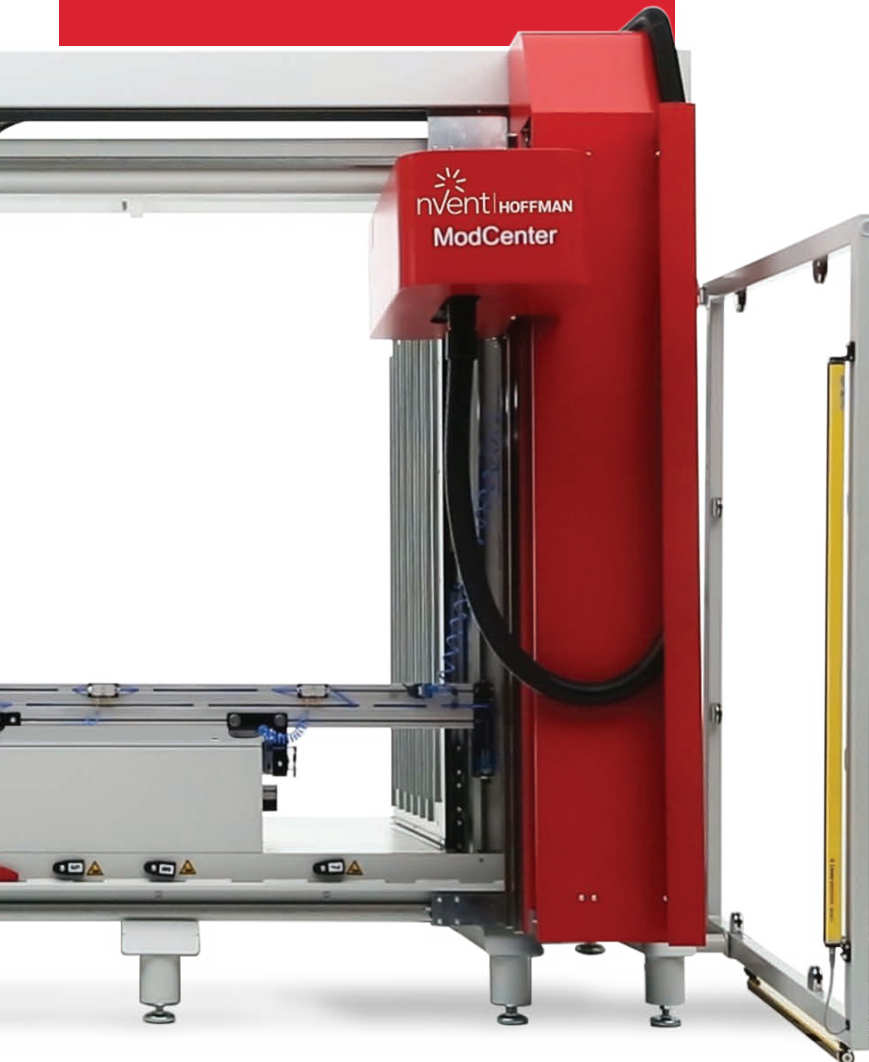
CUT-OUTS



HOLES



THREADING



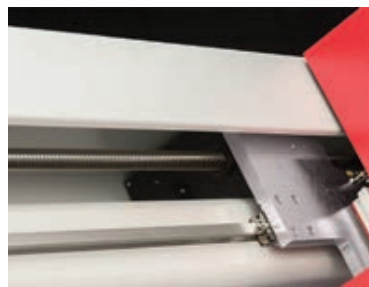
Our ModCenters are recognized as the most versatile automated modification solutions for machining electrical control panels and enclosures.

Eliminate time-consuming manual methods and streamline the way you work. Our ModCenters automate the machining of precise, repeatable cut-outs, drill-holes and threaded holes for a wide range of materials, and can perform all necessary drilling, milling, tapping, circular milling and engraving.

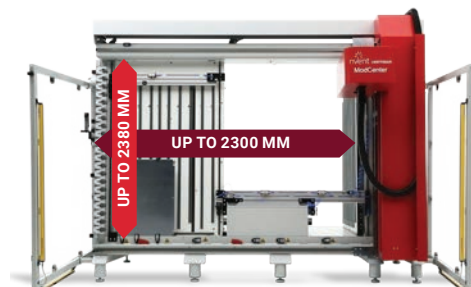
In addition, our versatile fixation systems make it easier and safer to process one or multiple enclosures, panels or mounting plates.

Choose the ModCenter ideally suited for your business. They come in a range of models, based on the size of the machinable surface.

REPEATABILITY PRECISION



LARGEST SIZE HANDLING CAPABILITY



SAVE UP TO **80%** IN TIME & COST
PAYBACK **ONLY 12** ENCLOSURES PER MONTH

Actual savings are dependent on a variety of factors. Shown above is a good faith estimate, based upon 12 standard enclosures per month.

Ball screw spindles deliver precise holes and cutouts, supporting low vibration, high tool life and a long service life.

- One- and two-door models accommodate broadest range of enclosure dimensions.
- Four ModCenter models to choose from with interior clearance for enclosure handling up to 2362 x 2288 mm.

NC-CUT

Prep Made Easy:
DIN Rail and Cable Duct Cutting

60%

labor reductions vs.
traditional machining



Optimize the cutting of DIN rail and cable ducts to boost productivity and minimize cutting waste with the semi-automated nVent HOFFMAN NC-CUT cutting machines. They also eliminate costly manual measurements and help avoid human error. Simply import the already created mounting panel layout drawings into the machine software and let yourself be guided through the cutting process with ease.

NC-CUT cutting machines are suitable for one-off production, serial production or prefabrication for future use.

**TAKE CONTROL AND
GET THE AUTOMATED EDGE!**

Designed to make your job easier:

1. Motorized stops guide material through cutting shears – a first shear for cable duct and a second for DIN rail.
2. The software interface sorts and optimizes cut lists to reduce waste – ensuring you maximize your stock material.
3. Following an easy sequential process, the user simply feeds material until it reaches the motorized stop and then operates the shear manually.
4. DIN rail and cable ducts cutting is accurate and easy.
5. Label printer ensures parts are kitted for the right project (optional).

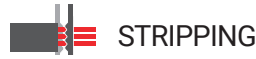


PWA

Wire Processing Made Easy



CUTTING



STRIPPING



CRIMPING



MARKING

FULLY
AUTOMATED

AUTOMATED
STORAGE
UP TO 12 SPOOLS

Optimize the wiring process
and reduce costs with
the fully automated
wire prefabrication

nVent HOFFMAN PWA6000 wiring machines quickly deliver the right wire when you need it. The PWA6000 optimizes wire production, reducing processing time up to 75%.

An extraordinary advantage of the PWA6000 wiring machine is it takes input from your CAE system to visualize the wire route on the mounting plate. This leading-edge capability saves you considerable time, especially for control cabinets that require a lot of wiring. It also enables you to optimize labor resources. Because it's so easy to use, you can train support personnel to use the PWA and reserve your highly skilled workers for other important tasks.

Choose from a variety of PWA solutions with different levels of automation to best meet your business needs.

Select options for centralized or decentralized use. Only nVent offers a fully automated decentralized wiring solution suitable for one-off production. It is ideal for direct use in the panel shop or prefabrication for future use.

75%
labor reductions vs.
traditional wire processing

MOBILE
SOLUTION





PWA6000 fully automates the cutting to length, stripping, crimping, marking and bundling of the wires boosting productivity and ensuring consistent and precise quality.

The machine places the ferrules on both sides and marks the wires. The finished wires are placed on adhesive tapes, in a predefined, sequenced order, to optimize order picking.

Direct printing on the wire to mark the source and target identification on each end of the wire. The wires are marked with blue ink so it is suitable for almost all wire colors and avoids the use of two printers.

Personal Wiring Suit

Efficient process management

nVent HOFFMAN PWA6000 fully automated wire processing center optimizes the production, boosting productivity and ensuring consistent and precise quality.

The integrated machines software, Personal Wiring Suite (PWS) makes the prefabrication process easy and intuitive.

Projects generated with almost all available E-CAD systems in the market can be processed directly on the machine software, using .CSV or .XLS files.

Easy Panel Shop

Taking Automation to the Next Level

Speed up processes, optimize resources and increase productivity with the nVent HOFFMAN Easy Panel Shop option. The platform enables panel builders and switchgear manufacturers to interact seamlessly with their nVent HOFFMAN pwiring machines.

Your team can leverage the platform's online portals as extensions of your PWA machines to import, input or export data, and automate important parts of the modification and wire processing processes.

By digitalizing key project management and wire prefabrication processes, the specially designed platform conveniently helps you optimize worker resources and improve consistency and quality.

- ✓ Optimize worker resources
- ✓ Increase productivity
- ✓ Improve quality and consistency



The platform features three “**Digital Assistant**” portals

Easy planning

Enables remote control, work logs and dashboards to simplify and organize project management.

Easy cabling

Provides step-by-step guidance for the wire prefabrication process, making it faster and easier for both pros and first-timers.

Easy wiring

Reduces design time by making it easy to create, route and organize wires, cables and bundles.



Simple sourcing for your **One-stop shop convenience!**



nVent HOFFMAN semi-automated wire processing machines

nVent HOFFMAN wire processing accessories

PWA5000 Personal Wiring Assistant

Mobile solutions that optimize wire production, reducing processing time up to 50%

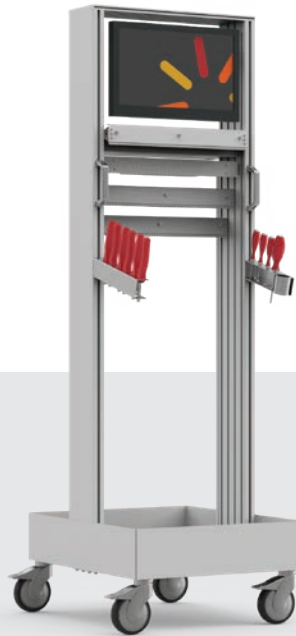
- Fully automates cutting to length, stripping and crimping of wires, boosting productivity, consistency and quality.
- Eight internal spools of wire help reduce switching times.
- Suitable for one-off production ideal for direct use in panel shop or prefabrication for future use.

PWA2000 Personal Wiring Assistant

- Recently upgraded with a new optimized programming system and interface, the machine makes it easy to precisely cut wires into exact lengths.
- For added convenience and time savings, the PWA can be integrated with wire strip and crimp machines or configured to meet modular workstation needs.

Accessories for manual and semi-automated wire prefabrication process

For improved performance and reliability, check our latest spare parts (consumables) catalog to help you identify at a glance the items you need.



nVent HOFFMAN cable storage solutions

CS1000 Cable Storage Frame

Designed for high capacity and a small footprint, the mobile storage solution offers a convenient and flexible way to store and spool additional wiring.

- Helps save spool-switching time, while optimizing the panel wiring process.
- Makes cable management easier.

WT3000 & SWT3000 Wire Trolleys

Designed to accommodate different types of wire holders for virtually any cable sizes as well as bundled wires.

- Flexible and ergonomic solution to optimize cable assemblies.
- Available in a standard or data-enabled smart version.

CSC Cable Storage Cart

Designed for high capacity and a small footprint, the solution offers a handy and flexible way to store and transport single core cables and spools.

- Designed to be used in combination with mounted TRONIC units that hold two single core cables and spools.
- Helps save spool-switching time, while optimizing the panel wiring process.
- Makes cable management easier.



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO RAYCHEM SCHROFF