

quadro evo

# Evolution is with you.

the new Hager main  
distribution board.

:hager

# Future primed: quadro evo.





With this progress in evolution, quadro evo opens up new perspectives on larger projects and provides more options. Planning, building and installing become easier and faster, and maintenance work drops to an all-time low. **All of this with fully consistent Hager know-how and quality.**



## A system evolved

# A system update

01

Outside, the familiar Hager look. Inside there's plenty more to see.

02

h3+ inside. For new capabilities and more intelligence.

**h3+**

03

New form segregations for up to 4b, new safety features and higher safety levels.

01



03

quadro evo is the next phase in electrical distribution. In fact, it introduces many improvements – raising the entire system to the next level. **After all, that's what evolution is all about: making good things even better.**



**04**

Ready for an all-new power busbar (aluminium & copper compatible), allowing systems for up to 4000 A.

**05**

The new design allows for more space, making wiring and maintenance easier.

**06**

Improved mounting kits, fewer screws and a clear positioning: just some of the many improvements.



# Good news for all.



## Panel builders

Simpler planning, more flexible adjustments and easy assembly with less manual work: Panel builders will enjoy working with the quadro evo. In addition, typical Hager reliability and robustness will ensure long term customer satisfaction.





## Electrical installers

What do electrical installers wish for? An easy, speedy installation, offering flexibility, security and service. Sounds like quadro evo, doesn't it?

## Electrical consultants

Easy maintenance, hassle-free changes within an existing building: Electrical consultants need reliability, even when things don't stay the way they were. For quadro evo, it's all about evolution.





# A solid grounding.

Now from 1600 A up to

**4000 A**

The new quadro evo is a solution that will meet almost any challenge. Its many improvements make it the base of a main distribution that will endure. Choosing, configuring and building the quadro evo is now easier and more efficient.



# Exactly to your needs.

quadro evo can be configured with copper or aluminium busbars. Copper allows for solutions that reach up to 4000 A, while aluminium offers greater flexibility due to free positioning of the screws.

## quadro evo evolution detail:

**A tested Hager solution,  
fully compliant with IEC 61439 up  
to 4000A. quadro evo guarantees  
peace of mind.**





# Safety first.

## 01 Tested and approved

A European system tested and fully compliant with international standards (IEC 61439-1&2), performed by an independent, accredited European laboratory, including resistance of materials and parts, degree of protection, mechanical operation and heat limits.

## 02 Liability included

New: Hagercad provides exact drawings of copper links, with real-life, tested values.

## 03 Stronger

Improved short circuits withstand strength up to 85kA: As dedicated main distribution system, quadro evo sports improved fixations and an overall higher resistance thanks to galvanized metal parts, IK10 shock protection, IP55 water and dust protection.





## **04** More safety levels

Segregations: 1, 2b, 3b, 4b – higher availability of the electrical main distribution. Parts swapping and maintenance work while operable.

## **05** Safer transport

Less volume and fewer parts allow for flat packaging and better logistics along the whole way to the construction site.

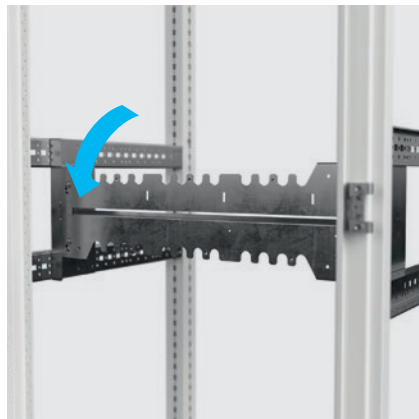
# Introducing more possibilities.

In evolution, it's the little details that create the best solutions. At Hager, technically advanced solutions take a similar path. For example, quadro evo's new busbar brackets offer enhanced stability and easier adjustment.



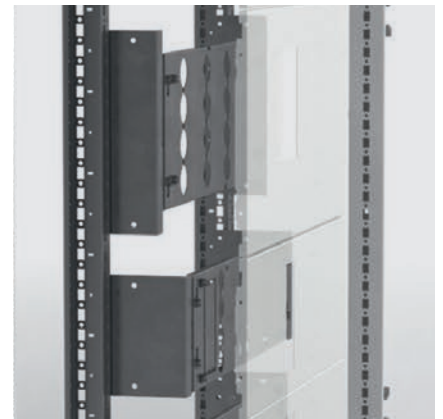
## Higher comfort

quadro evo offers more space to work and a single module size. So, even later adjustments are much easier.



## Better handling with kit fixation

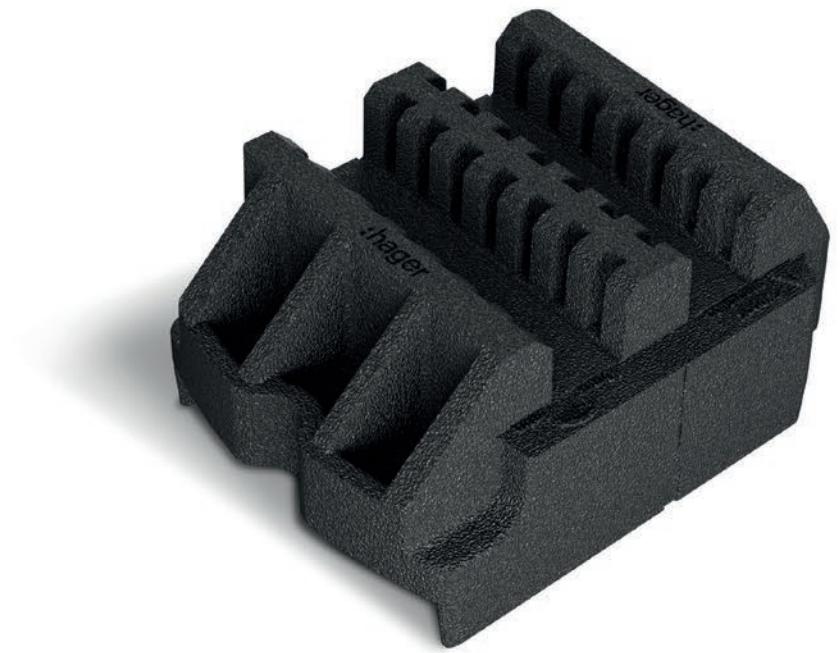
A new pre-hanging function takes the loads while working on the distribution.



## Kit positioning

Easier assembly without positioning jig: The front panels are aligned with mounting plates on the back side.





## quadro evo evolution

quadro evo's new  
busbar brackets.



### New busbar support

We provide exactly matching connection links designed to supply the main copper or aluminium busbar.



### Easier segregation

Fewer parts, more options – segregation has never been easier than with quadro evo



### Designed connections

To comply with verified configurations, the connection plans between devices and incoming busbars are provided by the hagercad software.

# Systematically better.

## 01 More robustness

With its improved base, quadro evo stands firm, whatever size the next project might be. New performant internal system for up to 4000A and l<sub>cw</sub> 85 kA applications.

## 02 More ease

Smart and fast, all elements fit together perfectly. With a pre-hanging function and many clips instead of screws (and more screws of the same type), things get much easier.

## 03 More flexibility

For easy, fast swaps and maintenance, all modules come in a single size. Main busbar with aluminium profiles 10mm or standard copper 5mm or 10mm.





## 04 New horizontal supports

More freedom thanks to uprights and braces: For individual applications with standard parts, horizontal supports may be installed freely. They also fixate heavy devices such as ACBs. A PE support, cable strain relief and isolator fixation complete the picture.

## 05 New uprights

The new functional uprights allow for more flexibility and ease.

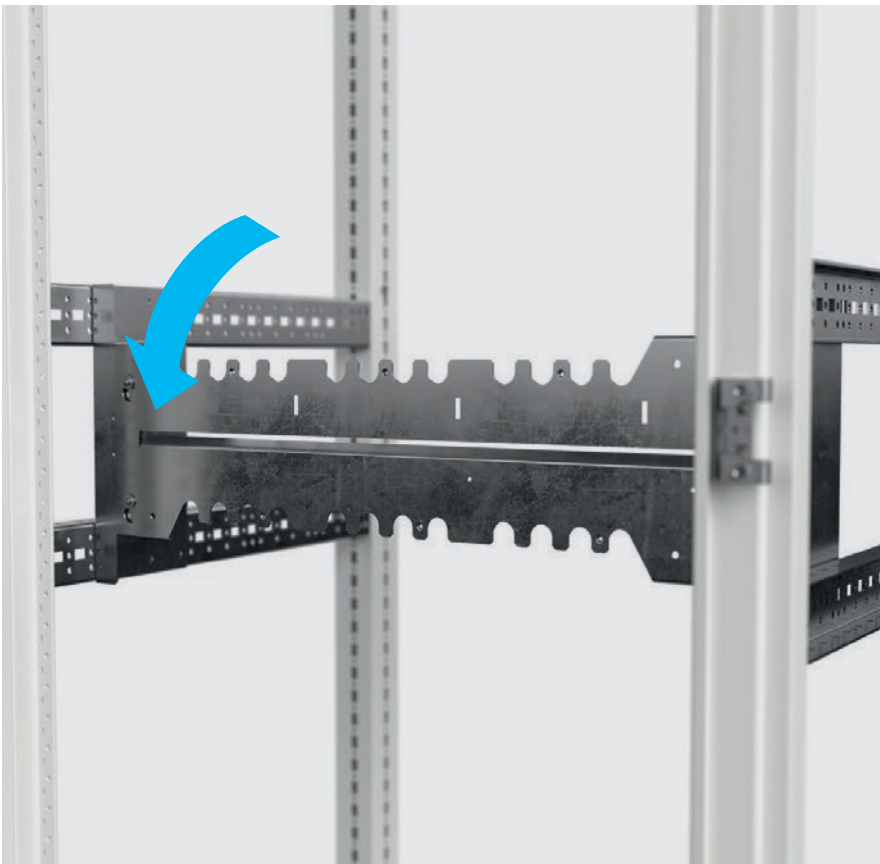


## quadro evo evolution detail

The rigid quadro frame is now being matched with new functional uprights.

# Assembling gets even easier.

With smart new design details, the assembly of a quadro evo panel has become faster and more efficient. While facing less manual work, easy maintenance and modification also allow for future evolution.



## More Flexibility

The removable plates allow pre-assembly of devices on a table before integration into the cabinet, and partial disassembly during connection operations to free access.





## More space and more speed

The new quadro evo design offers better accessibility and more working space.

## quadro evo evolution

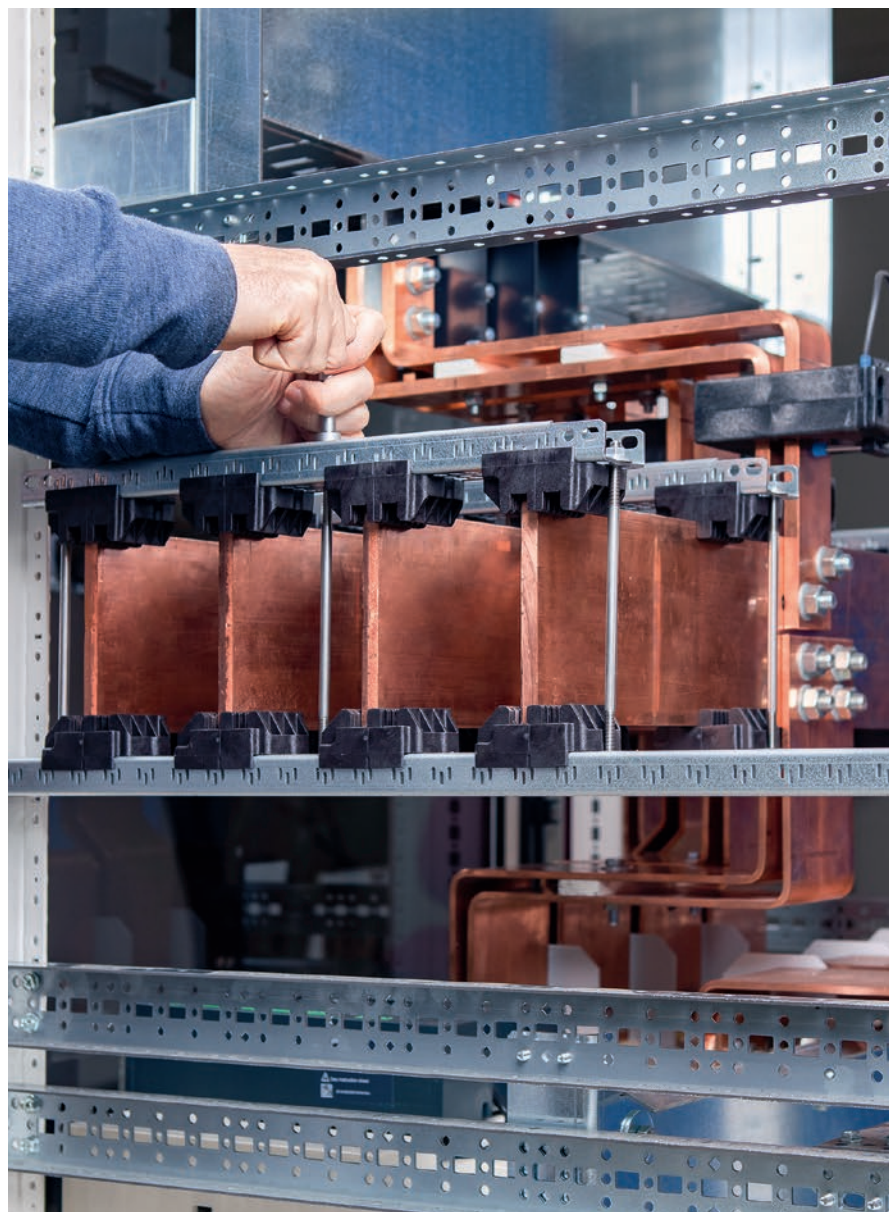
quadro evo's new  
busbar brackets  
allow for clipping  
instead of using  
screws.



# It's in the details.

## More flexibility

An adjustable interphase distance (5 mm steps), according to the required short circuit level. Low level, larger busbar distances render very economic solutions, while even the highest resistance of  $I_{cw}$  85kA needs only a 225 mm distance.



## Better access

With less parts to fix, there is more space for hands, tools and cables. For easier maintenance the screws can be reached from the front.





### Optimised transport

quadro evo needs fewer parts: Less space and flat packaging for a more efficient transport and smoother logistics.

### More options

IP30, 31, 43 and 55. with a modular door, a full or transparent door, ventilated front covers and/or rear panels, you have the choice of finishes.



# quadro evo at a glance

A tested Hager solution, fully compliant with IEC 61439-1&2, up to 4000 A, quadro evo now offers 4 safety classes. With segregations 1, 2b, 3b or 4b, there is a solution for projects of any dimension. The new quadro evo is a solution that will meet almost any challenge. Its many improvements make it the base of a main distribution that will endure. Choosing, configuring and building the quadro evo is now easier and more efficient.

## Mechanical specifications

Material	Sheet metal (steel) Cataphoresis-painted surface and hot-polymerized polyester (epoxy powder coating) Non-painted parts, such as mounting plates: galvanized sheets
Color	RAL 9010 (white)
Application	Enclosures for indoor use
Degree of protection	IP30 with corresponding cover panel IP43 with modular doors IP55 with corresponding cover panel, including a door
Impact resistance rating	IK07 with covering frame IK08 with covering frame IK10 with IP55 door
Framework widths (internal / external)	300 mm (cable compartment) 350 mm/450 mm 600 mm/700 mm 800 mm/900 mm 600 mm + 300 mm/1000 mm
Framework depths (internal / external)	350 / 400 mm 550 / 600 mm 750 / 800 mm
Framework height (internal / external)	2000 mm/2100 mm 1800 mm/1900 mm
Plinth height	Up to 3 heights from 100 à 300 mm
Packaging	Flatpack delivery
Possible configurations	Side by side, back to back, corner

## Electrical specifications

Compliant with standards	IEC 61439-1 / 2 EN 62208
Rated insulation level (main busbars)	1000 V
Rated current (In)	4000 A
Rated peak withstand current (Ipk)	187 kA
Frequency	50/60 Hz
Rated operating voltage (Ue)	415 V

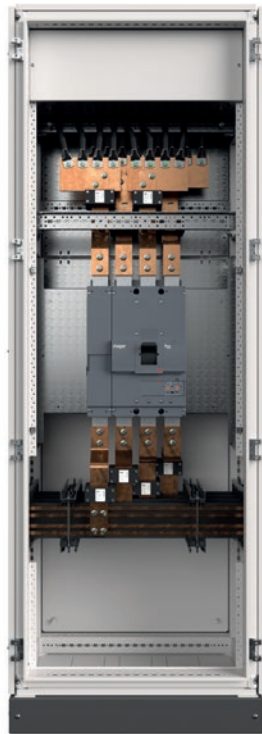




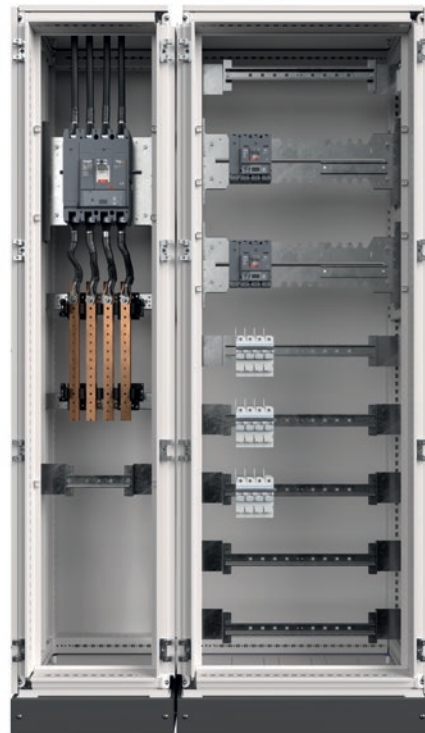
Many sizes



**ACB**



**MCCB**



**MCCBs and modular devices**

# Smarter options.

Reliable protection against overloads and short circuits: The h3+ moulded case circuit breakers provide additional safety for electrical installations in commercial buildings. Improve the energy efficiency with the h3+ energy version.

## 01 Secure screw

The quarter-turn auxiliary access system saves time when installing the product. The secure screw offers additional comfort.



## 02 Hinged front cover

The front cover offers multiple advantages. Mounted on hinges, it remains integral with the case once opened, preventing incorrect refitting.



## 03 Display window

The auxiliary types can be seen directly through the windows on the front panel, without removing the cover.



## 04 Integrated padlock

The handle can be directly locked with no need for extra accessories.

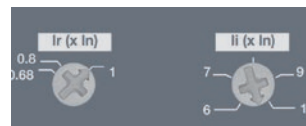


## quadro evo and h3+

A real team player, allowing for more intelligence and more safety options in any electrical main distribution.

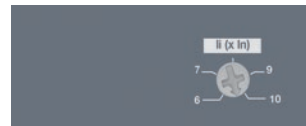
# h3+

## For each application, its own trip unit



### TM

Thermal-magnetic trip unit  
standard protection



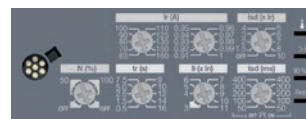
### MAG (ICB)

Magnetic trip unit  
protection only. Mainly  
used for motor protection in  
association with a thermal  
relay and a power contactor



### LSnI

Electronic trip unit  
Basic protection



### LSI

Electronic trip unit  
Extended protection



### Energy

Electronic trip unit  
High-end protection





# Plan ahead.

quadro evo matches perfectly with Hagercad.  
Configure, plan and order simply from just one fully  
integrated application. Discover the new advantages.  
The 3D visualisation becomes more precise and  
more complete.



La visualisation 3D devient plus précise et plus complète.

## 01 Flexibility



Specify the assembly characteristic and the new panel board configurator offers you consistent and verified solutions.

## 02 Speed



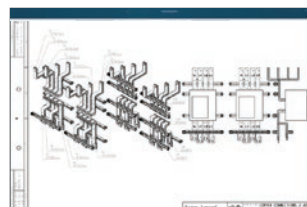
Pre-configured assemblies speed up the work.

## 03 Simplicity



The equipment kit configurator finds the required kit and all the needed parts according the selected options.

## 04 Reliability



Copper links drawings between main switchgear and busbar are available in hagercad. Exact, compliant to all standards and fully documented.

# Core values redefined.



**New dimensions**  
quadro evo now suitable for  
up to 1600 A with aluminium  
and 4000 A with copper  
busbars.

**quadro**



**New compact design**  
More space for work.



In electrical distribution, some things have always been the same, although technologies and processes are evolving all the time.

This is why we went all the way to keep quadro evo tried and tested - even though it's brand new.



### New flexibility

Aluminium busbars with freely adjustable screws. Choice between copper or aluminium busbars.



evo



### More protection

Design verified means safer work: protection against electric shocks and integrity of protection circuits.



### More reliability

High short circuit level resistance tested.



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