

ELEMATIC



**FAST AND ACCURATE**  
ELEMATIC FAME SHUTTERING SYSTEM



# EASY TO USE: FAME SHUTTERING SYSTEM

Elematic FaMe is a unique, patented shuttering system that offers versatility and a wide range of benefits – from high quality results and cost-efficient production to safe working methods and beyond.

The system consists of light aluminum side profiles, various types of magnets and planning software for creation of drawings and bills of materials. It's suited for use with table molds, battery molds, and in column as well as pillar production.

The FaMe system is modular; you can start with a limited number of components and build the system as needs grow.

**SAVE 70% OF THE TOTAL  
SHUTTERING TIME.**

## FAST AND EASY TO ATTACH

Mold preparation is fast and simple with FaMe: Just place the side forms to the desired places and attach them with push-button magnets.

The magnets can be easily moved by sliding them on the surface before pushing the button for attachment. After casting, it's simple to remove magnets with a releasing tool.

Thanks to the simple process, nearly 70% of the total shuttering time can be saved. It's also easy to change panel dimensions.

## HIGH PRECISION

Together with aluminum side profiles, the push-button magnets make a very accurate coupling that guarantees dimensional accuracy and rectangularity of the end products.

As there's no need for any welding, bolting or grinding, the table surface will remain flawless.

## LESS WASTE

You can cast directly on recyclable aluminum side profiles and decrease the amount of waste wood. For example, if you use 2.5 km of laminated veneer lumber (LVL) monthly, you will half your wood purchases. The aluminum profiles can be used over and over again. With the right care, the system lasts around 10 years.

## SAFE

The magnets and side forms are safe to use compared to other shuttering systems. The push-button and the housing of the magnet have been designed to give cover against any injuries.

## ADAPTS TO VARIOUS APPLICATIONS

FaMe side profiles and magnets can be tailored to fit to any existing side form system made from different materials, such as steel or wood.

The same profile system can also cover most wall thicknesses, **from 70 – 500 mm and up to 800 mm with accessories.**



# SANDWICH WALLS



● **ALUMINUM SIDE PROFILES**  
with flexible height adjustment



● **PUSH-BUTTON MAGNETS**  
for use with aluminum and plywood side forms



● **HIGH QUALITY FAÇADES**  
with precise dimensioning

## SHUTTERINGS FOR THICK WALLS WITH FaMe FLEX PRO

When you need to make **insulated walls of up to 600 mm** in thickness, FaMe Flex Pro is an extremely efficient furnishing method. It is particularly suited for making facades, insulated sandwich walls, solid walls etc.

The FaMe Flex Pro system makes it possible to furnish steel surfaces for precast products of just about any shape or size.

It is an ideal choice for varied and short production series, because you can change dimensions quickly and effectively. For example, the intakes and outtakes of lifting hooks and reinforcing can be made freely without breaking the side molds.

FaMe Flex Pro ensures that the end products are of the highest quality with precise dimensioning, straight side profiles and precise 90-degree corners.



## KARKAS MONOLIT, RUSSIA

Elematic production lines, machinery and a FaMe shuttering system were delivered to Karkas Monolit in 2015.

The annual capacity of the factory – 250,000m<sup>2</sup> of façade panels and 60,000m<sup>2</sup> of precast wall elements – requires an efficient shuttering system.

Ensuring a fast production speed and high-quality panels were decisive factors for Karkas them when choosing Elematic.

Watch video:



# SOLID WALLS

## HORIZONTAL CASTING ON TABLES

● **LIGHT WEIGHT ALUMINUM PROFILES**



● **CASTING STRAIGHT TO ALUMINUM**

Height can easily be increased by adding plywood to aluminum side form.



● **UNIVERSAL PUSH-BUTTON MAGNET ALLOWS EASY OPERATION**

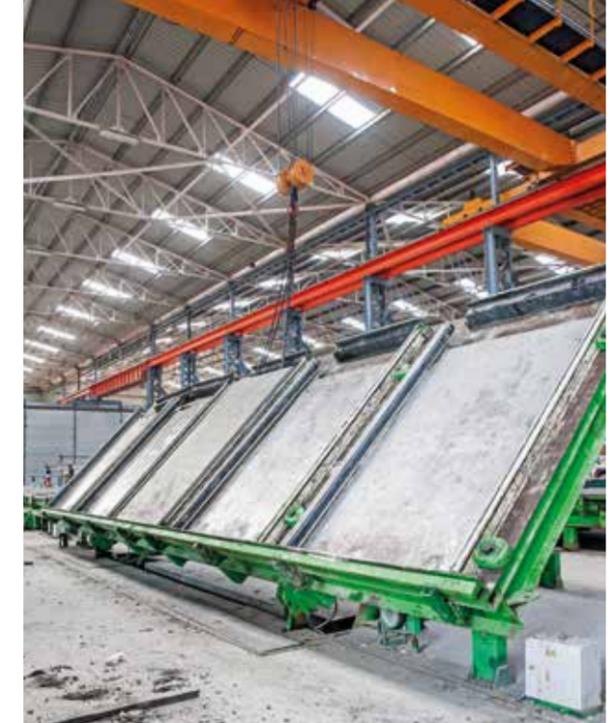


### ULTRALIGHT FaMe LITE FOR SOLID WALLS

The Fame Lite was first released in 1995 to create shuttering that is as light as possible, meaning 3-5 kilos per meter. You can easily and safely move them without any equipment or tools.

The profiles are specifically suited for the bulk production of non-insulated precast products. They can handle **thicknesses from 70 to 249 mm** and have a standard length of 5.5 m. Other lengths up to 8 meters are available on order.

The profiles can be made higher with back support and plywood, and we guarantee **up to 500 mm precast thickness**. The extensive FaMe Lite selection has almost 30 different profiles, including jaws, chamfers, etc.



In addition to FaMe Lite, you can use the more robust yet light FaMe Flex profiles, which function for 40 – 630 mm precast thicknesses.



# SOLID WALLS

## VERTICAL CASTING IN BATTERY MOLDS



● LIGHT AND EASY TO HANDLE

● EASY OPERATION WITH PUSH-BUTTON MAGNETS



● ALUMINUM INTERMEDIATE SIDE FORM

● EASY TO BUILD UP AND REMOVE

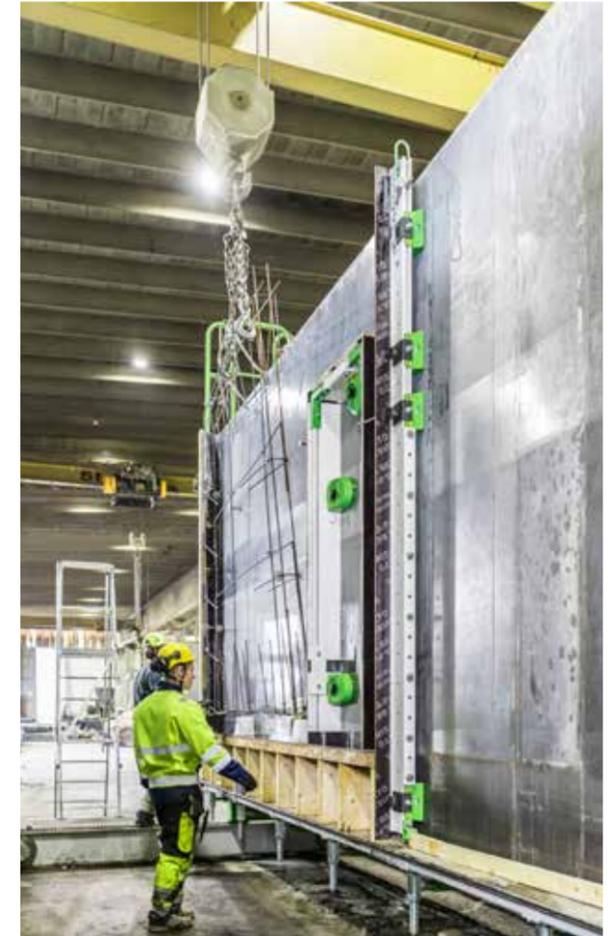
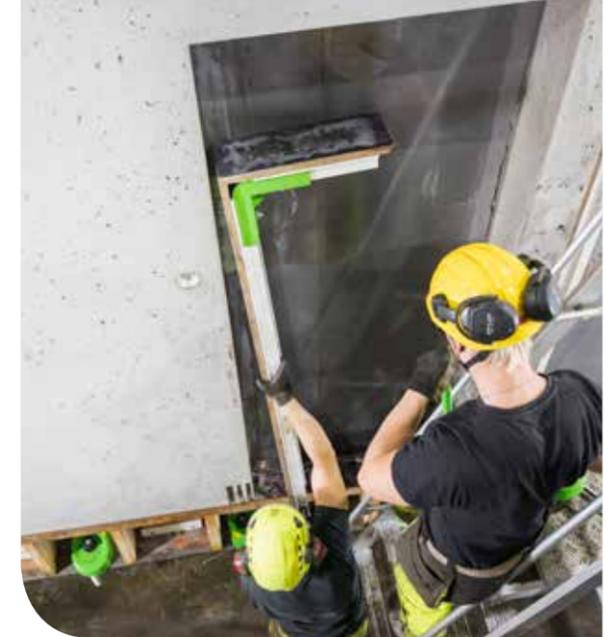


### FaMe LITE FOR BATTERY MOLDS

The lightness of the FaMe Lite profiles create great benefits especially for vertical casting in battery molds.

Since there's a T-slot on the back of the profile, all connections, back supports and corner pieces can be attached with T-slot bolts. There's no need for welding.

The FaMe Lite offering also includes magnets for lifting loops, welding plates, chamfers, thread-tube sockets, junction boxes and electrical fixtures.



## KOUVOLAN BETONI, FINLAND

In early 2017, Kouvolan Betoni decided to grow and focus solely on precast concrete. This called for streamlining the production facility and investing in new technology. The company chose to invest in battery molds and FaMe system, which can be used in battery molds and with tables with steel surfaces.

Ville Virsu, Head of Production at Kouvolan Betoni highlights the good results of using the Elematic FaMe shuttering system.

"We are using FaMe shuttering, and it is working extremely well. It is easy to use. The panel sides are always straight and it's easy to work with the openings. We are seeing considerable savings in time and in wood materials. FaMe makes it possible to produce good quality more efficiently than before."

Watch video:



# BEAMS AND COLUMNS



● **LIGHT AND ADJUSTABLE ALUMINUM FRAME**

● **FLEX MAGNET**  
Holding force 16kN

● **EASY TO ADJUST**

● **STEEL SIDE FORM WITH INTEGRATED MAGNETS**  
H=600mm



● **FLEX SIDE FORM**  
H=500mm

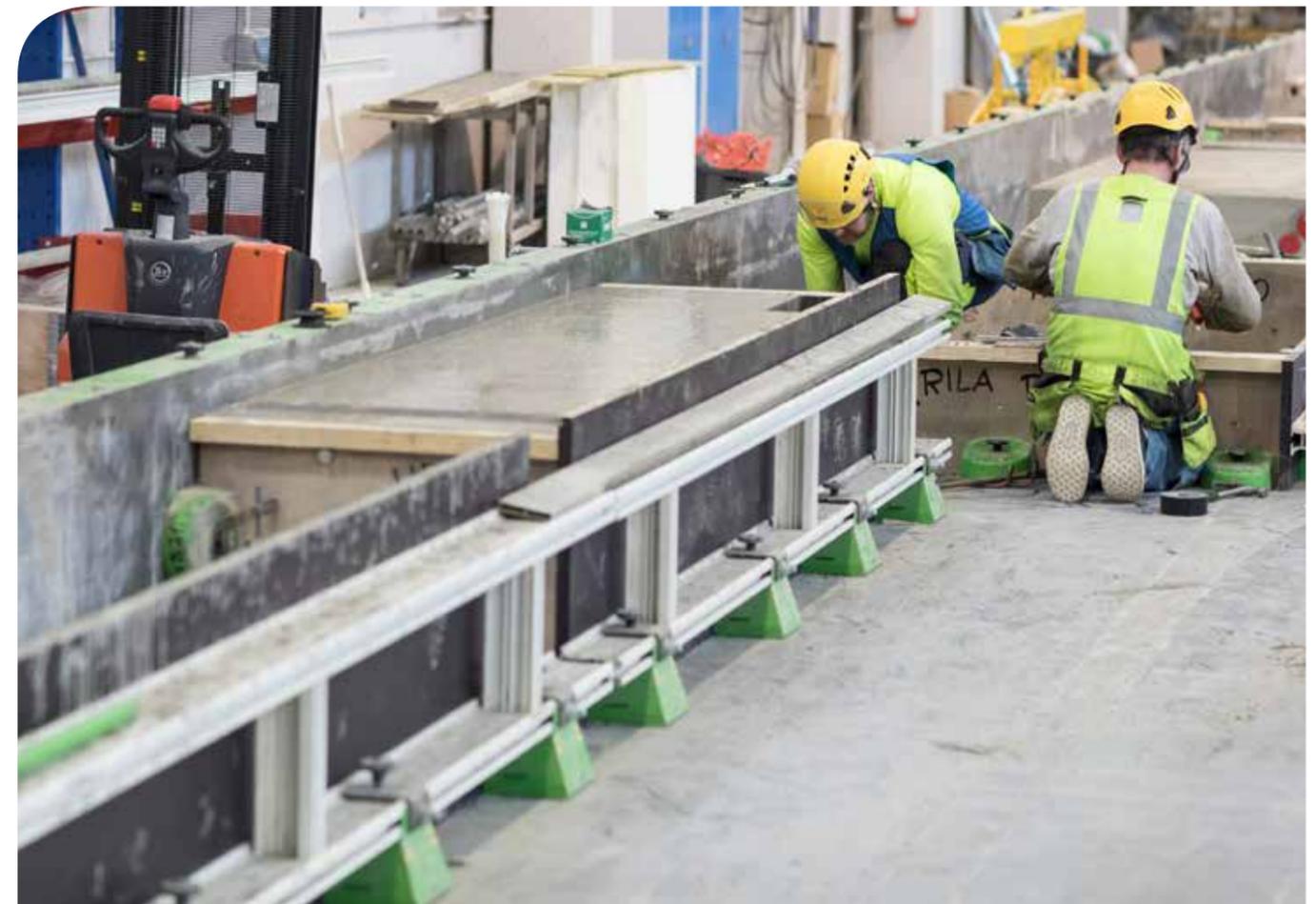
## HIGHER FaMe FLEX FOR BEAMS AND COLUMNS

Beam and column processes benefit from FaMe Flex. With FaMe Flex it is possible to furnish steel surfaces for elements of just about any shape or size, and change dimensions effectively.

It is the most efficient and flexible furnishing method for table molds as well as for battery molds, tilting tables or any other steel surface.

When you need to make beams only seldomly, FaMe Flex system is a cost-effective solution that can be used e.g. on a hollow-core slab bed.

With accessories, you can use the FaMe Flex for even 700 mm beams and columns. For beams over 500 mm thick, we recommend a tensioning over the beam with a dywidag or a similar threadbar.



# DOORS AND WINDOWS

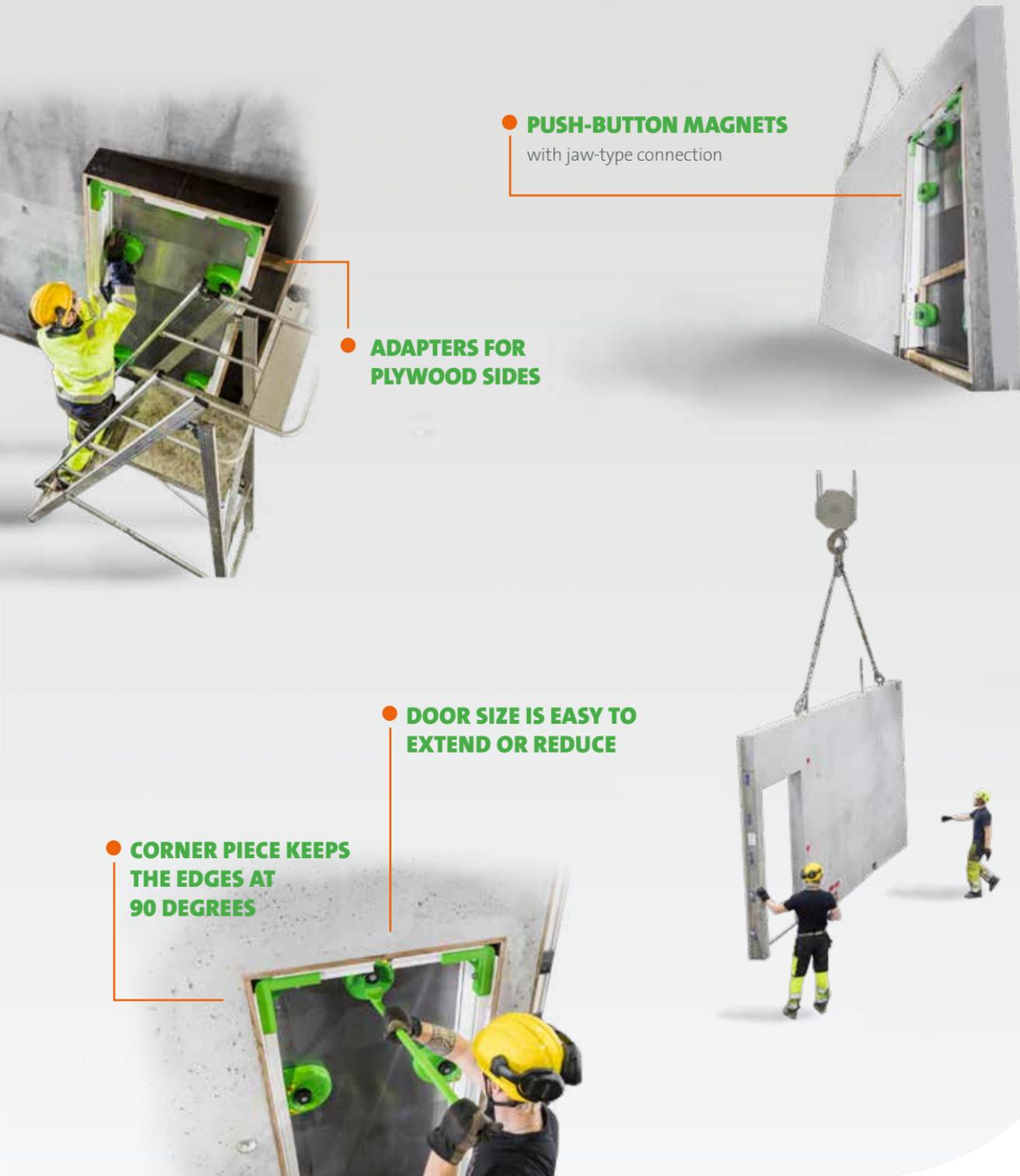
- **PUSH-BUTTON MAGNETS**

with jaw-type connection

- **ADAPTERS FOR PLYWOOD SIDES**

- **DOOR SIZE IS EASY TO EXTEND OR REDUCE**

- **CORNER PIECE KEEPS THE EDGES AT 90 DEGREES**



## PRECISELY 90 DEGREES

The FaMe system is an excellent solution for window and door openings where you need an exact 90 degree angle.

The system features a special window mold and a two-sided push-button magnet, reducing the number of work phases in diverse production. The window mold comes with a diagonal form, like a half-cut pyramid so it can be cast and lifted in one piece without additional demolding. A window mold is also light; it weighs less than 30 kg for panel thickness of 150 mm in 1 x 1m size.

How do you make doors and windows with FaMe shuttering? Watch video.



Weighing under 30 kilos, the FaMe Lite aluminum 2 x 1 m door mold is lighter than any other typical solution on the market. It is easy to move around manually.



## FACTS ABOUT FAME PUSH-BUTTON MAGNET

- Strong 16 kN holding suitable for all FaMe side profiles. Light, small in size
- Jaw-type connection to form
- Balanced and ergonomically designed
- Completely enclosed structure
- Suitable from casting beds to tilting tables and other molds
- Can be used over and over again



## REPAIR AND MAINTENANCE

A comprehensive maintenance and repair service is a vital part of the FaMe system. Spare parts are available for the magnets and profiles and scuffed profiles can be repainted. Our stock aluminum profiles are 5.5 meters in length, and they can be cut to preferred measures.



## FAME HOT

Developed for the needs of the factories located in the world's hottest places and for production methods where curing takes place in chambers at high temperatures.

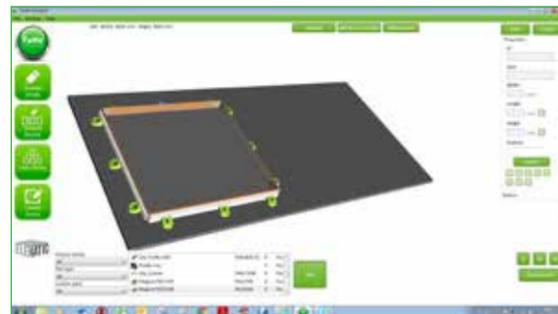
FaMe Hot magnet withstands high temperatures, even 70 – 80 degrees of Celsius, without losing its grip strength.



## VARIOUS ADAPTERS AND ACCESSORIES

FaMe system can be adapted to several different applications. A wide range of adapters can be used with any existing side forms.

The most common magnet accessories are available from stock, including magnets for junction boxes and electrical fixtures.



## DESIGN SHUTTERING PLANS

FaMe Designer is a simple-to-use software tool for designing mold shuttering. It is easy to see how many magnets you need for the specific side form.



The durable holding rack for magnets has a place for the releasing tool.



# PRECAST WALL PRODUCTION FAME SHUTTERING SYSTEM

Elematic provides precast concrete technology, production lines, equipment and related services that help customers succeed. We are the global technology and market leader in precast concrete production technology for residential and non-residential buildings.

Our precast production technology is highly respected worldwide for its high quality, excellent productivity and efficiency, and advanced solutions. We believe in continuous improvement of our operations and offering to develop our customers' business in a smart way. That's why we are trusted by 40% of the world's precasters.

[www.elematic.com](http://www.elematic.com)



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