



**Sealright:** hardware solutions  
for high performance aluminium  
windows and doors

*QUALITY, INNOVATION AND DESIGN*



## Sealright:

hardware solutions for high performance aluminium windows and doors

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# Pioneers

## Quality, Innovation and Design

### We are pioneers

For more than 50 years, we have opened new frontiers and changed the way of conceiving and producing hardware for aluminium windows and doors.

We are part of Schlegel International, the international division of Tyman plc, a global group with hardware manufacturing plants in Italy, United Kingdom, China, United States and a sales network able to serve almost every country in the world.

Our mission is to be a global partner for engineered components for the fenestration industry thanks to our full range of sealing systems and hardware solutions for doors and windows, with more than 100 registered patents.

**Our goal is to work professionally in accordance with our core values of Quality, Innovation and Design. Our focus is the complete customer satisfaction through the design, manufacture and marketing of cutting-edge solutions in line with market demands, all over the world.**





In 2006 Giese  
launched the project  
**LIGHT LESS GIESSE**

# Green GIESSE

**Giesse was born with a green soul.  
Green is the colour already chosen in 1965 for its brand.**

## Energy saving and CO<sub>2</sub> reduction

In 2006 Giesse launched the "GIESSE LIGHT LESS" project. It is a project for energy consumption optimisation and environmental protection which now consists of:

### Co-generation system

The co-generation system consists of an engine used to convert the natural gas of the mains supply into mechanical energy and to recover the heat energy contained in the engine's exhaust gas.

Using the new system has reduced the CO<sub>2</sub> emissions of the plant's existing burners. In addition, the savings in mains electricity consumption contribute to the reduction in the CO<sub>2</sub> emissions of the electric power plants.

The primary energy savings obtained with the co-generation reduces the release of CO<sub>2</sub> into the atmosphere by more than 40% for the same amount of energy supplied to the users.

### Photovoltaic system covering the plant:

A photovoltaic system has been running at the Fossatone di Medicina plant since October 2010, comprising 3600 solar panels, for a total of 9000 square meters.

Thanks to the clean energy generated, GIESSE saves approximately 388 tonnes of carbon dioxide emissions with a saving of 140 TOE (tonnes of oil equivalent) per year.

## Research and development to the benefit of the environment

All Giesse products are processed and painted in the in-house plant using exclusively thermosetting, non-toxic powder coatings. This allows compliance with the environmental regulations and policies for the protection and safety of workers.





## Hardware for Tilt-and-Turn Windows

The most complete and functional inward opening window

- Concealed C.H.I.C. hinges and NP Supra handle
- Sash weight up to 170 kg
- Fastening with Asia, Kora and Prima handles
- Hinges adjustable in three directions
- Micro-ventilation
- Logica Tilt-First version (inverted opening sequence)



C.H.I.C. – Concealed.  
Hardware.Innovation.  
Components.



NP Supra



## Hardware for Security Windows

To satisfy extra-security requirements, especially in public buildings and double skin façades

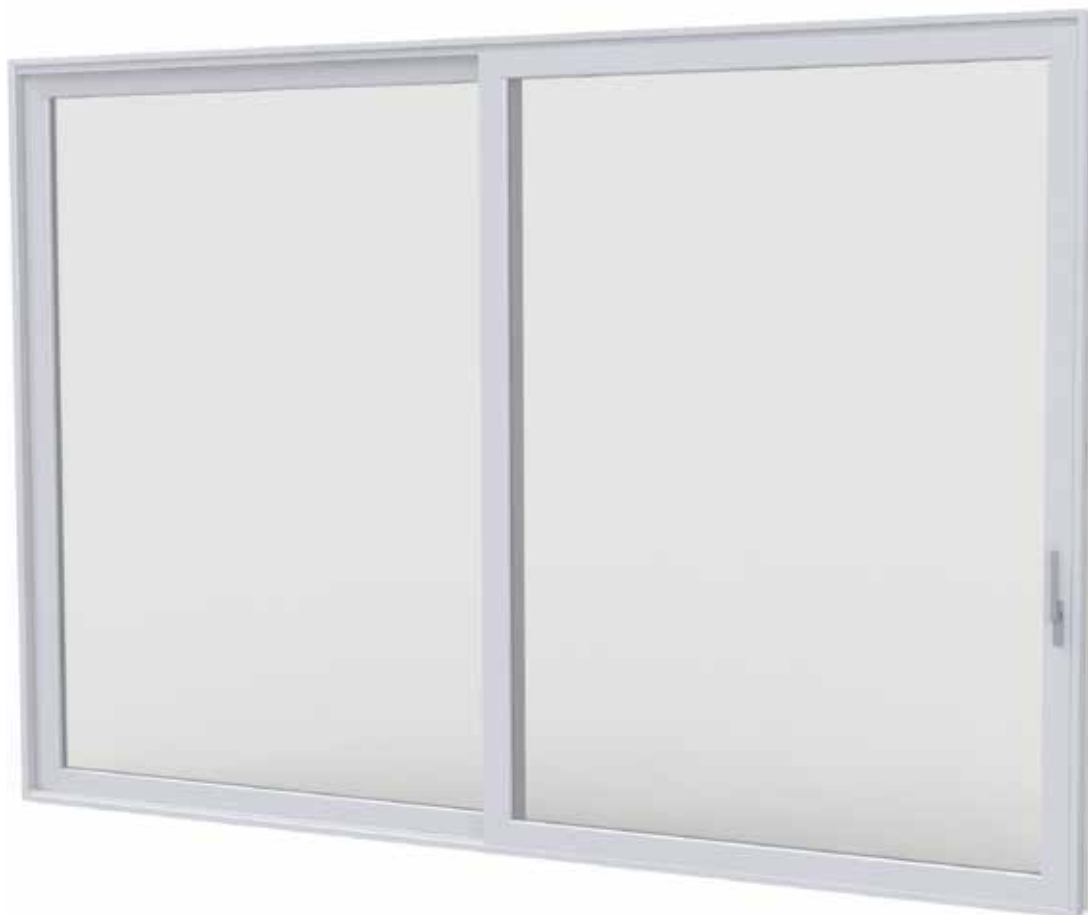
- Sash weight up to 160 kg
- Fastening with window handles with lock
- Ventilation opening without key, full opening only with key
- Limiter arms



Flash, Flash XL and XXL,  
Bridge2, Linea 3D hinges



Asia, Prima handles  
with lock



## Hardware for Lift-and-Slide Doors

The ideal solution for broad openings, with large and heavy sashes

- Sash weight up to 400 kg
- Fastening with handles, single or double, also with lock
- Multipoint locking
- Automated opening



GS3000 Lift-and-Slide system



Asia, Kora and Prima handles, single or double, also with lock





## Hardware for Doors

The aluminium door is the one that best meets the design, robustness and durability requirements

- Sash weight up to 200 kg
- Reliable and durable hardware for heavy duty doors
- Extruded aluminium clamp hinges, also with minimalist design
- Frontal application hinges, with various finishes
- Fastening with door handles, locks and cylinders
- Panic devices for emergency exit doors



Asia, Kora and Prima door handles



Flash XL, XXL and Linea 3D clamp hinges. Domina HP and HP Cover frontal application hinges



Panic devices



Locks, cylinders and bolts



## Hardware for Tilt-and-Slide Windows and Doors

For large openings, with the weather performance of a casement window, unaffected by clutter

- Sash weight up to 200 kg
- Fastening with Asia, Kora and Prima handles
- Multipoint locking



GS1000 Tilt-and-Slide system



Asia, Kora and Prima handles



## Automations for Inward and Outward Openings

A complete range of chain, rod and rack actuators, also for smoke and heat exhaust ventilation

- Chain actuators, rack and rod operators
- For Bottom-Hung, Top-Hung and parallel opening windows
- For sheds, skylights, roof vents, hoppers, vertical sunblinds and Jalousie
- Single or multipoint locking
- RWA certified versions for smoke and heat exhaust ventilation



Varia Slim chain actuators



LC rack operators



ST450 and Five rod operators



## Hardware for Outward Opening Windows and Curtain Wall

Suitable for innovative and modern buildings

- For Side-, Top-Hung and parallel opening windows
- Fastening with Euro, Prima and Asia handles
- Wide range of arms, included limiter arms
- Single or multipoint locking



OS Operator



Euro and Prima offset handles



Stainless steel arms



## Hardware for Side-Hung Windows

The simpler and most economical inward opening typology

- Concealed C.H.I.C. hinges and NP Supra handle
- Sash weight up to 100 kg
- Fastening with Asia, Kora and Prima handles
- Extruded aluminium hinges with various and stylish finishes



C.H.I.C. – Concealed.Hardware.Innovation.Components.



NP Supra



## Hardware for Sliding Doors and Windows

Simple and without clutter in the room

- Sash weight up to 200 kg
- Fastening with flat handles or window handles
- Single or multipoint locking mechanisms
- Completion hardware



Brio and Pratika flat handles



Champion Plus multilocking



Carrera pulleys

# Giesse Services

**Giesse provides its customers all over the world with a structured technical support service so as to provide, for the full range of its window products, information and services at one of the highest levels in the industry.**



## Technical Assistance

- Technical information on products, use and assembly, before, during and after the sale
- Information on industry regulations on both hardware and windows
- Training courses for the sales and technical personnel of our customers



## Co-Design

- Application checks on the assembly of Giesse products on the customer window / door profile system
- Support for component / profile modification for the perfect fitting of Giesse hardware in the profile



## Giesse Lab

Giesse lab carries out mechanical and performance tests on doors and windows: thermal calculation, durability performance, air leaks, water tightness and resistance to wind load.

Cyclic mechanical – functional tests carried out to test the durability of hinges, handles, pulleys, mechanisms, variable geometry arms and other systems. The area is specially equipped to perform tests in accordance with the parameters laid down by European and American standards.

A salt spray chamber is available to test the corrosion resistance of Giesse hardware.

**ENGINEERED COMPONENTS FOR THE FENESTRATION INDUSTRY**



Schlegel Sealing Systems



Giesse Hardware Systems

**Schlegel International**



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