



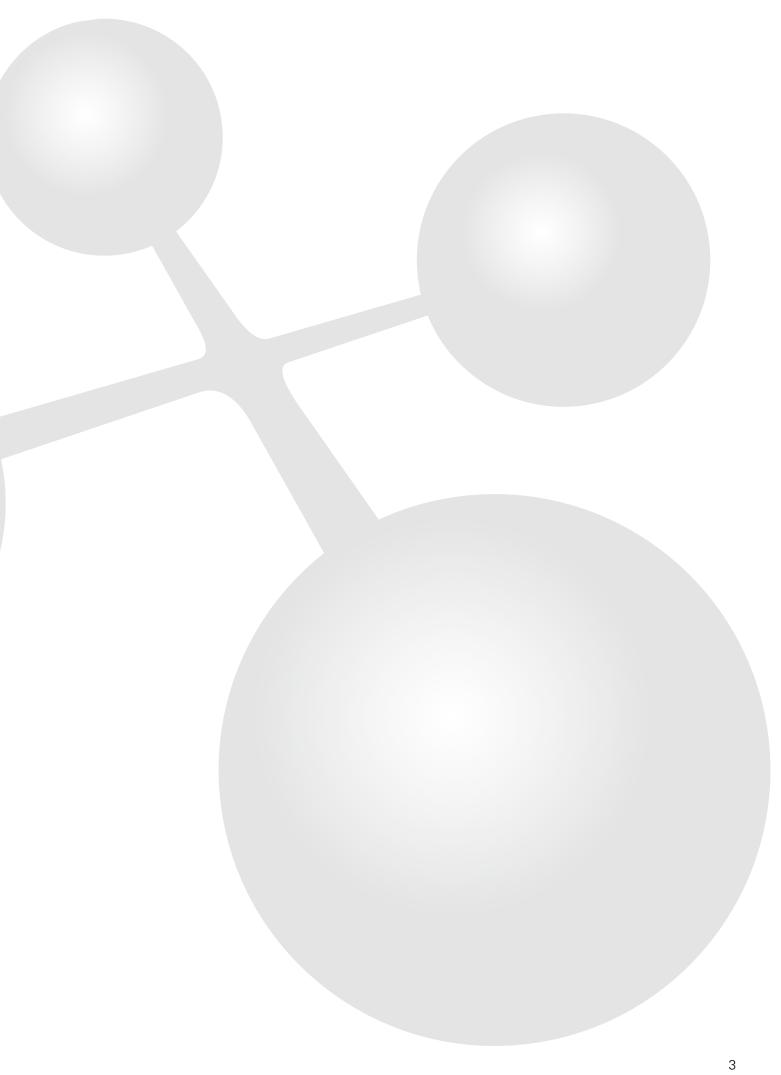
PLANNING DESIGNING NETWORKING DEVELOPING



PLANNING DESIGNING NETWORKING DEVELOPING

Since the company was founded, ECO Schulte has consistently taken a holistic approach to the subject of "hardware on the door". A product system was developed early on that made the world of doors more secure and more functional. We call that — to quote Aristotle — "the whole is greater than the sum of its parts".

Today ECO Schulte offers much more than a product system. New areas of expertise have been added to a perfectly harmonised product range: the overarching design, the networking of products and the challenge of market- or order-based product development.







Much has already been philosophised about the charm of the family business in contrast to the corporate group. In our opinion, the main advantages are continuity, decisiveness and high flexibility. And a love of doing business.



A family business, an entrepreneurial family: siblings Tobias Schulte, Andrea Widmann, Heinz "Heiner" Schulte – and their father Ernst Schulte (from left).

A love of entrepreneurship is deeply rooted in the self-image of the Schulte family from Menden, Westphalia. The current generation of managing partners – **Andrea Widmann**, **Heinz and Tobias Schulte** – and their father, **Ernst Schulte**, can point to many successful industrialists in their immediate family as well as among more distant relatives. Ernst Schulte believes there is a kind of entrepreneurial gene that runs through the family: "We enjoy creating things, we enjoy building things!" The father has passed this down to the next generation and later wrote it in the family registry. And with the generational transition, the family has also broken new ground without leaving the path of growth.

The entrepreneurial gene lives on

The international expansion in sales has been advanced – as has international production. ECO Schulte operates production and sales branches in Menden, Luckenwalde in Brandenburg, Hermagor in Austria, Warsaw in Poland and Zhuhai, China – as well as in Randers, Denmark. Tobias Schulte, who is responsible for international business, views this as an inescapable strategy: "We have to have the right production and distribution mix to remain competitive as a medium-sized company."

Heinz Schulte favours the home market and sees Germany as another important success factor: "We have the world's most sophisticated building services market and the most demanding system of standards – if you can succeed here, you can succeed anywhere in the world with German engineering."

Andrea Widmann is responsible for business administration within the group of companies and juggles the numbers: "As a medium-sized company, we have to follow a growth course — but we have decided not to do this at any price. Quality takes precedence over quantity here as well."

Father Ernst Schulte thinks the company is on the right track and continues to support the team of managing partners with good advice. But he primarily devotes his time to the other passion of the entrepreneurial family: Europe, the European Youth Parliament and the idea behind European unification. This is no less than the democratic legacy of company founder Heinrich Schulte.









BECAUSE WE ALSO PRODUCE

If you enter a market as a system provider you must also have a command of the system. Arbitrarily purchased components are not our way of doing business. The concept of the company network includes fulfilling defined core competencies with our own production. ECO Schulte operates its own national and international production facilities.







BECAUSE SERVICE MEANS "GOING GLOBAL"

ECO Schulte from Menden, Westphalia, is active worldwide with planning support, development expertise and product solutions. German quality, design and functionality have been decisive factors in our international success. From airports, hospitals and hotels to office buildings: we have the right system for our customers.













PLANNING

Plan your project with fully coordinated, standards-compliant product combinations

- from the ECO Schulte

system product range.

DESIGNING

All design options:

From highlight design

for creative accents to

integrative design.

From timeless classics to bespoke design.

NETWORKING

Needs-based use of technology:

intelligent door management from stand-alone to fully networked.

DEVELOPING

Never say "can't":

Development and problem-solving expertise

for the door industry and buildings when it comes to

hardware that complies with standards on the door.



PLANNING MEANS PLANNING WITHIN A SYSTEM DRAWING FROM A WIDE RANGE OF OPTIONS WITH STANDARDS Ax Hings ECO Horizon OBX 18

When we talk about planning, ECO Schulte is referring to the process of selecting door components with the guarantee of absolute compliance with standards. This involves configuring the hardware on the door and ensuring everything fits together according to the relevant standards

The world of electronics opens up wonderful possibilities: convenience, security, networked systems – it's all possible. The technology of absolutely certain functionality under almost all conditions; but that's how mechanical elements work. Unbothered by empty batteries or power failure, impervious to environmental influences: where human lives are at stake, mechanics are the means of choice.

The fascinating thing about mechanical devices is also the reliability of their function – just think of grandmother's heirloom pendulum clock, reliably ticking the time to the minute for more than 80 years. Pure mechanics, highly sophisticated, artfully designed and masterfully manufactured. Now transfer that to the door: even after a decade of waiting for the perfect moment, mechanics are able to access a program that saves lives – as a result, the door closer can secure the smoke compartment.





55 EN 1125 EN 1936 EN 1937 EN



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HIGHLIGHT DESIGN

A SENSE FOR FRESH FORMS

We at ECO Schulte use the term "highlight design" for design products on the door that purposefully add accents to the architecture. An example of this is the Randi programme with its Scandinavian aesthetics.





The planner can use highlight design to add accents – on the door handle, for example, with Wing from Randi.

Door handles are a functional interface between people and architecture. Hardly any object is taken into the hand as frequently in everyday life or establishes such a direct relationship to the building. Accordingly, we pay great attention to the design of these functional elements, which are in dialogue with highly sensitive palms and fingers.

Their ergonomics and haptics are therefore decisive to how they are perceived and remembered. The Randi Wing lever handle, for example, which has won several design awards, is distinguished by a shape reminiscent of the profile of an aircraft wing. The gripping hand caresses the noble metal of the handle just as the airflow caresses a wing.

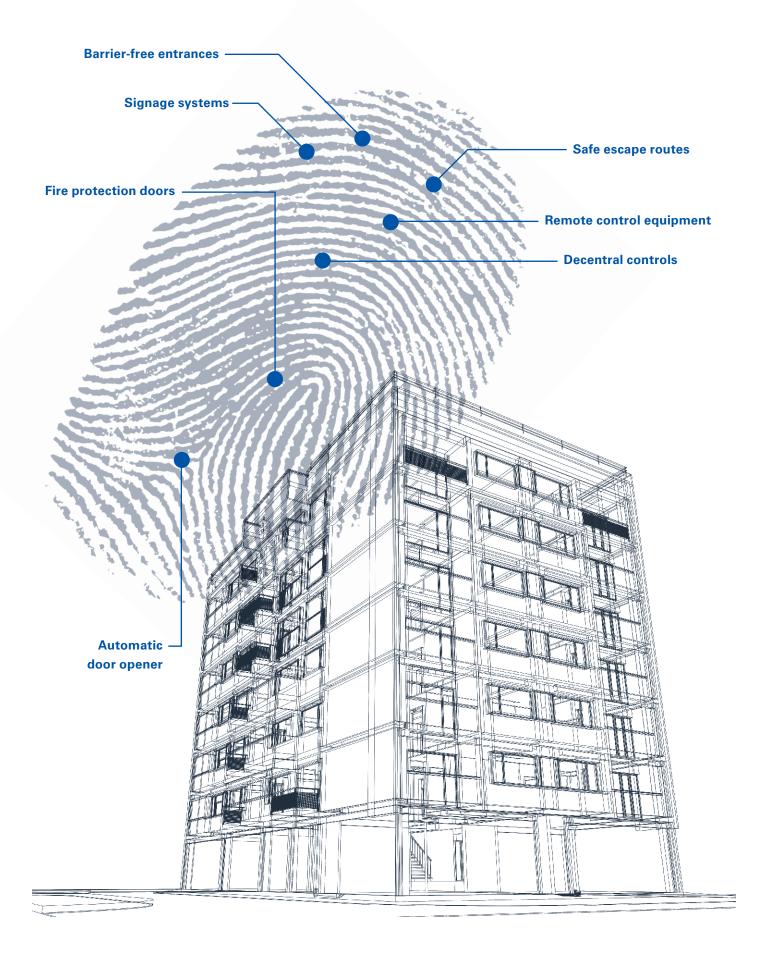
The surface texture is also important: whether it is satin stainless steel, smooth shiny brass or raw,

unpolished materials whose appearance ages along with the building. The Randi product range even offers wood, birch bark or high-quality plastic as materials.

And ECO Schulte shines in the core product range of the brand with a wide range of individual surfaces in all product segments, made achievable through the technology of a robust PVD coating.

Highlight design from ECO **Schulte stands for fresh aesthetics**, diverse options for customisation, and – like the Danish design of Randi – often is in fact a fresh trade secret for insiders.







ITM - INTELLIGENT DOOR MANAGEMENT

ALL OPTIONS ARE OPEN

Doors control access into and within a building. What could be more logical than automating this access or even integrating it into the building management system? Visitor flows can be more effectively controlled and monitored this way – in all situations, in everyday operations as well as in emergencies.

Mechanics, mechatronics and IT are merging at our company under the name ITM – Intelligent Door Management, which is producing revolutionary complete packages with corresponding engineering and service products.

ITM – solving complex tasks

Each building is a highly individual project that reflects the use, needs and aesthetic values of its owners and users. By extension this means that behind every door there is an extensive catalogue of requirements made up of user needs and security architecture. Only networked doors can articulate a response to increasingly complex demands.

But this complexity requires specialists in every subsection. ECO Schulte is fully committed to upholding the **expertise of the specialist** and to concentrating on its core business. We cooperate closely with other medium-sized specialist enterprises to tackle the challenges of complexity.



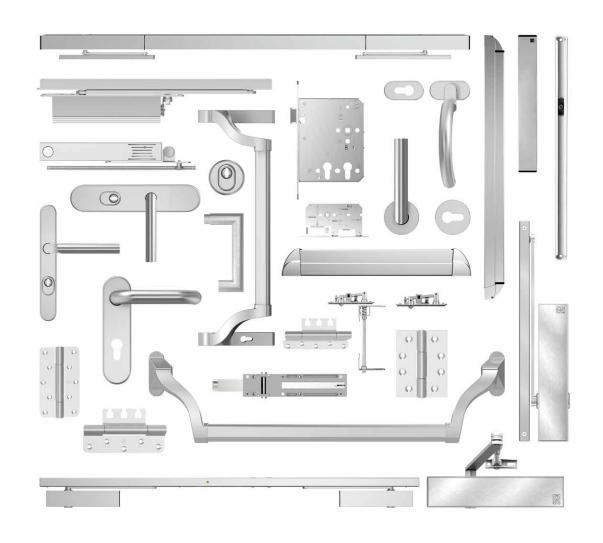
From multi-storey car parks to clinics and from offices to banks: the level of door networking must be developed individually for each building.







Inspired products: All these products have been optimized to meet market requirements or customer requests, either as a whole or in essential details. The ideas for this came from the development department.



It began with steel doors in the cellar – and laid the foundation for **decades of solution-oriented research and development efforts**. One of the first plastic fire protection fittings comes from ECO Schulte. This version of the lever handle, with its obvious advantages, has established itself. The first chapter of an idea's success story has been written – and will be continued...

Since then, door manufacturers have been consulting with ECO Schulte due to the company's superior development and problem-solving capabilities: these collaborations have produced handles, hinges, locks, closers and fittings of all types. We know what we

are talking about because the door is the focus of our expertise – and this is precisely what is prized by our partners in the door industry as well as those who are contractors. But our expertise reaches even further: As a **company with its own production**, ECO Schulte can guarantee development of solutions that are not only functional, secure and compliant with standards – but especially that products can also be produced economically. The manufacturing competence of ECO Schulte, with its own factories and the market proximity, guarantees **innovations** and results that can then also prevail in the market in tough competition.









SAFETY IS INTEGRAL

THE ECO SYSTEM





Intelligent door management





Door closer technology





The world of ECO Schulte is door technology. As one of only a very few system suppliers worldwide, the company takes a holistic approach. In close cooperation with door manufacturers and processors in the trade, the door-related technologies are developed and constantly honed round the clock. ECO never only focuses on the individual product, but rather on the interplay between all components in the door system. From the door closer to the hinge, from the lock to the fitting. The door is a complex safety structure: it protects life and limb - and values. All valuable - and deserving of best quality and maximum functional safety. In all things door-related, the best is good enough -ECO Schulte.



CREATIVITY AND IMAGINATION ECO AR WORLD



OBN-14 Hinge 0° AR Display







YOUR ENGAGING

INTERACTIVE EXPERIENCE





OBN-14 Hinge 180° AR Display







DOOR CLOSERS WITH SLIDE RAIL ECO NEWTON Tests / standards F C€ [EN 1154]





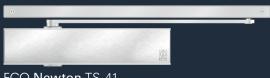
ECO Newton TS-62 (EN 2-5)



ECO Newton TS-61 (EN 2-5 / EN 5-6)



(EN 1-4)



ECO Newton TS-41 (EN 1-4)



ECO Newton TS-31 (EN 1-3)



ECO Newton TS-33 (EN 3)



DOOR CLOSERS WITH STANDARD ARM

ECO **NEWTON**

Tests / standards

F C € EN 1154





ECO **Newton** TS-50 (EN 2–6)



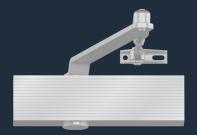
ECO **Newton** TS-20 (EN 2/3/5)



ECO **Newton** TS-15 (EN 2/3/4/5)



ECO **Newton** TS-14 EN (EN 2/3/4)



ECO **Newton** TS-14 (EN 1/2/3/4)



ECO TS-10 D EN (EN 2/3/4)



ECO TS-10 (EN 2/3/4)



CONCEALED DOOR CLOSER ECO ITS

Tests / standards







ITS Multi Genius (EN 1-4 / EN 2-5)



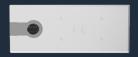
ITS 630 (EN 3-6)



ITS 420 (EN 2-4)



FLOOR SPRINGS ECO BTS



BTS FH 650 (EN 3/4)



BTS FH 840 (EN 2/3/4)



DOOR COORDINATORS ECO SR

Tests / standards





SR III door coordinator (B or BG)

SR-EF door coordinator with electro-magnetic hold open (B or BG)

SR-EFR door coordinator with electro-magnetic hold open and smoke detector (B or BG)



SR-Basis





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THE AESTHETE ECO NEWTON

The door closer generation from ECO Schulte: a meticulously well-conceived design consisting of a **stainless steel cover** and aluminium body. **Concealed mounting plates**, setting elements protected against vandalism, colour-coordinated materials and the variable combination of all slide rail door closers with the closing sequence control systems characterise this generation of door closer models. In addition, the **new valve technology** ECO **VALVE** guarantees the simple and highly **precise adjustment** of all parameters of the closing process.



ECO Newton TS-61



THE SYSTEM OVERVIEW ECO **NEWTON**

Door closer with slide rail		TS-62	TS-61	TS-51	TS-41	TS-31	TS-33
■ Continuously adjustable ■ Constant - Not available	Closing force size acc. to EN ²	2-5	2-5 5-6	1-4	1-4	1-3	3
	Door width	≤ 1250 mm	≤ 1250 mm ≤ 1400 mm	≤ 1100 mm	≤ 1100 mm	≤ 950 mm	≤ 950 mm
	Latching speed ³	•	•	•	•	•	•
	Closing speed	•	•	•	•	•	•
	Back-check ⁴	•	•	•	0	-	-
	Delayed action ⁵	•		-	-	-	-
	Tested acc. to EN¹	EN 1154 A	EN 1154 A	EN 1154 A	EN 1154 A	EN 1154 A	EN 1154 A

Door closer with standard arm		TS-50	TS-20	TS-15	TS-14 EN	TS-14	TS-10 D EN	TS-10
Continuously adjustableConstantNot available	Closing force size acc. to EN ²	2-6	2/3/5	2/3/4/5	2/3/4	1/2/3/4	2/3/4	2/3/4
	Door width	≤ 1400 mm	≤ 1250 mm	≤ 1250 mm	≤ 1100 mm	≤ 1100 mm	≤ 1100 mm	≤ 1100 mm
	Latching speed ³	•	•	•	•	•	•	•
	Closing speed	•	•	•	•	•	•	•
	Back-check ⁴	•	•	-	-	-	0	
	Tested acc. to EN¹	EN 1154 A	EN 1154 A	-	EN 1154 A	-	EN 1154 A	-

¹⁾ EN 1154 – CE-mark and fire-protection tested 2) Door closer sizes acc. to European Norm (EN) 3) Increases the closing speed just before closing to ensure the door closes reliably 4) Regulates the force necessary to open the door (check) from 70° opening angle 5) Regulates the closing speed (delay) of the door up to 70° opening angle (e.g. for barrier-free passage)



THE HIGHLIGHTS ECO NEWTON



Two bodies for the whole building.

The ECO **Newton** door closer portfolio covers all door dimensions with only two basic units. In addition, end-mounted valve technology permits the door closer to be installed on the pull and push side in normal or transom installation (TS-41/31).



Combination of elegant materials

Elegant materials are standard with ECO **Newton**: The stainless steel cover and aluminium body unit of the new door closer generation are perfectly matched with one another – in an architecturally compatible form language.



Intelligent stainless steel cover

ECO **CLIC** envelops the aluminium body unit with the power of spring steel. The cover conceals all of the adjusting elements and cannot be removed without tools, thus securing the closer against unauthorised access.



Well-conceived assembly system

The special feature of the ECO **Newton** assembly system is that the mounting plate is completely concealed by the aluminium body of the closer, thus making it invisible. The mounting plate has standardised drill holes which guarantee time-saving, secure and straightforward attachment.



Innovative valve technology

The new ECO **VALVE** valve technology offers a wide and precisely adjustable setting range. This means the simple, high-precision and permanently secure adjustment of all parameters of the closing process using a conventional Allen key. As with all ECO **Newton** door closers, the closing speed and latching speed are regulated via the ECO **VALVE** as a standard feature. An additional valve stop prevents the valves being overtightened or screwed out.





Stainless steel full cover

The full cover is an optional stainless steel cover for the ECO **Newton** door closer and the respective slide rail. The overall appearance is perfected by a lever arm with a stainless steel finish. A cover on the closer body is available for standard arm closers.



Saves resources

ECO **Newton** door closers are up to 1,000 grams lighter than comparable solutions. Their intelligent construction and carefully planned use of materials make a considerable contribution to saving resources – without compromising functionality, safety, security or quality.



Uniform finishing edge and colour design

The mounted slide rail and door closer are flush when the door is closed. All materials are perfectly colour-matched – right through to the end caps on the slide rail. In this way, ECO **Newton** door closers can be integrated harmoniously into every design context.



Combination talent

The ECO **Newton VARIO** concept permits the use of all slide rail door closers and can even be combined with different door leaf widths. In this way, optimum value for money can be achieved for each individual door situation.



Standardised quality

As with all ECO Schulte products, the door closers are manufactured in a quality management process certified in accordance with ISO 9001. This guarantees that top quality is produced and installed. Many door closer variants are suitable for use on fire and smoke protection doors – and tested in accordance with EN 1154. All products which are tested in accordance with valid European directives are identified by the CE mark.







ROSE HANDLES (ROS) SHORT PLATE HANDLES (K) LONG PLATE HANDLES (L) OVAL ROSE HANDLES (OVR)









Tests / standards









D-210







D-110





















D-115



D-310



D-315



D-335



D-415

D-515

ROSE SET











Security rose set PZ

Rose set with PZ-hole

Rose set UG

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ROSE HANDLES (ROS) OVAL ROSE HANDLES (OVR)

Basic friction bearing technology

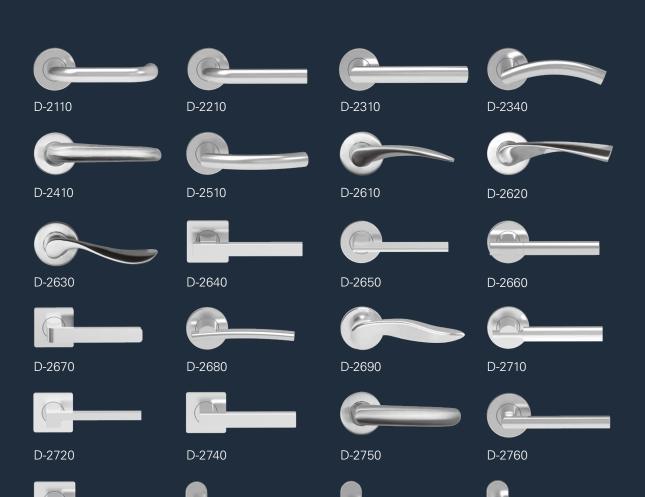


Tests / standards









KNOBS



D-2770



D-2110



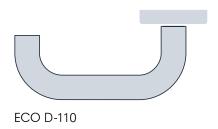
D-2210

D-2310



TIMELESS AND ELEGANT FORMS

ECO D-100 archetype: U-shaped handle



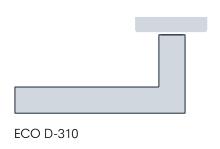
Classic handle with added value: the advantage of the U-shaped handle lies in its second 90 degree bend. It was used traditionally to prevent people or material from getting "threaded on". The rear bend of the handle helps to prevent shopping bags or coat sleeves from getting caught on the handle. In addition, the U-shaped handle has comfort qualities, because the rear turn supports the ball of the hand when the door is opened. ECO-Schulte has the U-shaped handle in its product range as factory design draft D-110.

ECO D-200 archetype: Frankfurt standard L-shaped handle



In their efforts to lower house construction prices and rents in the 1920s, many architects became involved in the standardisation of construction components. The ECO D-200 is a variation of the draft that once made a name for itself as the Frankfurt standard handle where a round rod was bent by 90 degrees and positioned on a simple rose. All of the Frankfurt versions are based on the idea of the right angle. ECO-Schulte has included the Frankfurt standard handle in its product range in a high-quality modern interpretation as factory design draft D-210.

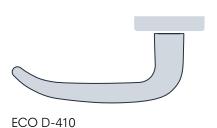
ECO D-300 archetype: Frankfurt mitred handle



The ECO D-300 is a variation of a geometric handle draft design from the 1920s and stands out through the legible simplicity of the construction: a circular tube is separated with a mitred cut. The two halves are then joined together again at right angles. This handle was given the attribute "Frankfurt" not only through its close geometric relationship with the Frankfurt standard handle but also because it was used when the Frankfurt Architecture Museum was built. ECO Schulte has included its interpretation of the Frankfurt mitred handle in its product range as factory design draft D-310.

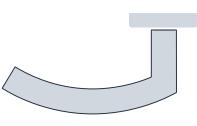


ECO D-400 archetype: Ulm handle



Made for getting to grips with! The archetype of this U-shaped handle was named after the Ulm School of Design where it was first used in the 1950s. The draft was based at the time on the door handles of trains run by the Swiss railway. ECO Schulte reworked the Ulm handle with its own factory design draft D-410.

ECO D-500 archetype: Hand-shape handle



ECO D-510

As far as the typology is concerned, this handle constitutes an ergonomic connection between the Frankfurt mitred handle and the Ulm handle. The design of this factory design draft D-510 is discreet, easy to grip and oriented towards the direction of movement.



GOOD, BETTER, BEST: QUALITY BEARINGS WITH A SYSTEM

OKL - Premium handles with ball-bearing technology



OKL-bearing

These high-end project handles are characterized by an industrial ball bearing. The precise and maintenance free ball bearing technology ensures a well-balanced system. Additionally the flex-bearing, lying inside the ball bearing unit, balances uneven door surfaces for up to 3 degree. This premium and innovative solution will meet all standards for private or public doors.

- EN 1906, class 4
- With spring and 90 degree carrier
- Patented flex-bearing unit
- 1 million cycle tested

OGL - Handles with friction bearing technology



OGL-bearing

The main characteristic of this handle is a maintenance free nylon bearing that is floating on the steel base rose and balancing radial and axial free-play. This class 4 handle bearing can be used on doors with high frequency and a potential for violent usage such as in schools or football stadiums.

- EN 1906, class 4
- Unsprung
- 200,000 cycle tested



SGL - Handles with standard friction bearing technology



SGL-bearing

The bearing made of glass fiber reinforced nylon is guiding the handle axial as well as radial. A wave spring is compensating angular tolerances. A perfect and certified price/performance ratio for frequently used handles in all kind of buildings.

- EN 1906, class 3
- With spring
- 200,000 cycle tested

BGL - Handles with basic friction bearing technology



BGL-bearing

The steel base rose and return spring ensure a proper and stable fixing on the door. The economic bearing is perfect for interior doors in public buildings or private houses.

- EN 1906, class 21
- With spring
- 100,000 cycle tested







PANIC BAR SYSTEMS ECO GUARDIAN





Panic bar systems ■ Touchbar











Guardian EPN 3000 EN



PANIC BAR SYSTEMS ECO GUARDIAN

Panic bar systems • Pushbar

Tests / standards

F C € EN 1125







Guardian EPN 900 IV (Aluminium F1)



Guardian EPN 900 IV (Black / red)



Guardian EPN 950



PANIC LOCKS FOR SINGLE LEAF DOORS

Tests / standards













GBS 96 AVP

GBS 130

FOR DOUBLE LEAF DOORS







GBS 94



GBS 94 RSK



GBS 97



GBS 97 AVP







GBS 140



GBS 152 ETÖ

DUAL LOCKING DEVICE





STANDARD LOCKS FOR SINGLE LEAF DOORS

Tests / standards







GBS 31 F SH Sash lock



GBS 31 F NR Noise reduction lock



GBS 31 F RL Roller latch lock Latch lock



GBS 31 F UR



GBS 31 F DB Dead lock



GBS 31 F NL Nightlatch lock



GBS 31 FWC Bathroom lock



GBS 31 F SUR GBS 31 F SDB Single latch lock Single dead lock





GBS 31 F SWC GBS 31 F Bathroom deadbolt



Tube well lock



GBS 31 F Profile sash lock Profile roller



GBS 31 F latch lock



GBS 31 F Narrow dead lock



GBS 81



GBS 94F



GBS 187



GBS 190



GBS 198



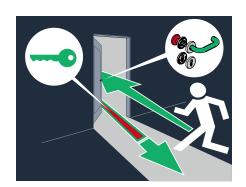
GBS 199



PANIC LOCK

FUNCTIONS

A panic lock works according to a defined principle: If the lever handle or panic bar on the inside is operated, the lock must open promptly under a defined application of force. In this case, not only the latch is drawn back, but also the locked bolt if necessary. This basic function can be refined and varied using ECO technology.



Knob-lever function

Panic function E

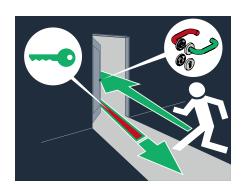
Panic function E is designed for buildings with access for a defined group of people. There is a blind plate or knob fitted on the outside, the door can only be opened by key. Classic panic function via the lever handle on the inside.



Fire brigade function

Panic function D

Panic function D is designed for pure escape doors which are not otherwise used: Following a classic panic operation from the inside the door is not only opened, the outer lever handle is engaged as well. In this setting, the door is no longer an obstacle for entry to nor escape from the building. The original function can be restored by a key. Engagement takes place mechanically through a two-part follower.



Forced closure function

Panic function C

Panic function C with a lever handle on both sides is designed for buildings accessible to the general public: Whereas the lever handle on the inside has a classic panic function, the lever handle on the outside is usually disengaged (idle function) and can only be disengaged and engaged through a key position (opening position) (forced closing). However, the key can only be removed when the idle function has been restored.



Switchover function

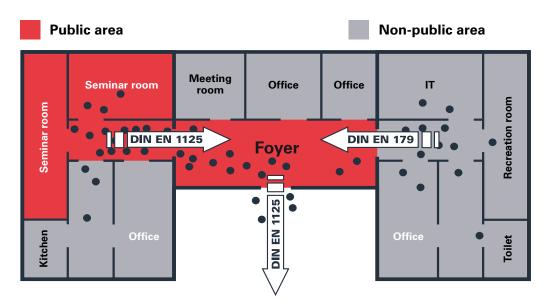
Panic function B

Panic function B with a lever handle on both sides is designed for buildings accessible to the general public: Whereas the lever handle on the inside has a classic panic function, the lever handle on the outside can be disengaged or engaged mechanically as required. Engagement of the two lever handles takes place mechanically through a two-part follower.



NORMS DEPENDING ON BUILDING USE

The type of room and utilization of the building are decisive when choosing the right panic door combination. European standards **DIN EN 1125** and **DIN EN 179** define the fittings of panic doors and emergency exits. Emergency exit locks in compliance with **DIN EN 179** are not normally subjected to use by the general public. It is assumed here that the users of the building are acquainted with the escape routes, so conventional panic lock technology with a handle or impact plate are sufficient here. Panic locks with a horizontal activation bar in accordance with **DIN EN 1125**, on the other hand, are intended for use in buildings frequented by the general public. Our panic systems in conformance with **DIN EN 1125** ensure that persons who have panicked and are not acquainted with the functions of the door can always get out of the building safely.



Panic locks with a horizontal activation bar

EN 1125 🗷

Panic locks in accordance with **DIN EN 1125** are used in public buildings in which the users are not acquainted with the functioning of the escape door but must nevertheless be able to operate them without instruction

Panic locks activated mechanically by means of a horizontal handle or push-bar.

Areas of application:

- Hospitals and clinics
- Escape routes in schools and training centres
- Public administration buildings
- Stadia, arenas and events buildings
- Shopping centres

Users have no advance knowledge of how to open the escape

Emergency exit locks with door handle

EN 179 🗷

Emergency exit locks in accordance with **DIN EN 179** for buildings or building sections not open to the general public and all areas where access by the general public can be excluded. Side entrances or doors in these buildings or building sections are only used by authorized persons.

Emergency exit locks operated mechanically by means of a handle or impact plate.

Areas of application:

- Private residential complexes
- School classrooms
- Non-public administration buildings or industrial companies
- Non-public areas of administrative buildings
- Non-public areas of airports, banks, shopping centres

Users have advance knowledge of how to open the escape door.



BS. EGIL

■ SYSTEM TECHNOLOGY FOR THE DOOR

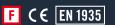




OBJECT HINGES ECO HORIZON OBX-20, OBX-18 AND OBX-14

Tests / standards







OBX-20-1531/160 3D Hinge



OBX-20-2541/160 3D Hinge



OBX-20-2542/160 3D Hinge



OBX-18-1531/160 3D Hinge



OBX-18-1531/120 3D Hinge



OBX-18-1534/160 3D Hinge



OBX-18-2541/160 3D Hinge



OBX-18-2541/120 3D Hinge



OBX-14-4526 3D Hinge

OBJECT HINGES ECO HORIZON OBN-20, OBN-18 AND OBN-14

Tests / standards **F C € EN** 1935



OBX-20-4141/160 **Butt Hinge**



OBN-18-4141/160 **Butt Hinge**



OBN-18-4141/120 **Butt Hinge**



OBN-14 C-hole Butt Hinge



OBN-14 Z-hole Butt Hinge



OBJECT HINGES OBN-13 SERIES



OBN-13 **Butt Hinge**



OBN-13 C Security Hinge



OBN-13-433H/102 Rising Hinge



OBN-13-4325ZM/102 Flag Hinge

CONCEALED OBJECT HINGES OBC SERIES



OBC-25-1440/150Z-3D



OBC-28-1640/177Z-3D



OBC-34-1845/246Z-3D

ADJUSTABLE FRAME BOXES, COVER PLATES AND LIFTING LUG



OBX Adjustable Frame Boxes For OBX-hinges



OBX Cover Plates For



OBX Lifting Lug Adjustable Frame Boxes For OBX-hinges



PERFORMANCE WEIGHTS AND LOADS

Door hinges are highly stressed construction elements: they not only have to bear the weight of the door itself, but much higher loads as well, depending on where they are used. Frequent door opening, slamming and unusual treatment of doors as in barracks or schools can make conventional hinges reach their load limit if they are simply designed to cope with the door weight.

ECO Horizon hinges have a closed hinge roller which prevents the roller bending open. No compromises have been made with the material thickness of the hinges either: the hinge plates of the ECO Horizon hinges can bear loads of up to 300 kg per hinge.

Stop	Max. door weight: 300 kg	Max. door weight: 200 kg	Max. door weight: 160 kg	Max. door weight: 120 kg
rebated notch	OBX-20-1531/160 OBX-20-1532/160 FD	OBX-20-1531/120 OBX-20-1532/120 OBX-20-1951/160 OBX-18-1531/160	OBX-20-1951/120 OBX-18-1532/160	OBX-18-1531/120
unrebated notch	OBX-20-2541/160 OBX-20-2542/160 OBN-20-4141/160	OBX-20-2541/120 OBX-20-2542/120 OBX-18-2541/160 OBN-18-4141/160	OBN-14-E-C OBN-14-E-Z OBN-14-R-C OBN-14-R-Z	OBX-18-2541/120

The values given were established under 100 % testing laboratory conditions on 2 m high and 1 m wide doors as per EN 1935. Please remember this when selecting the object hinge or contact us for further details.

Assuming proper installation of the door, the material strength of the construction element to be attached and a frictional connection with the masonry: ECO Horizon hinges should be selected and used according to the above table with sufficient load and safety reserves for special areas of use as well. When ECO Schulte systems are used, a third hinge is only required under really difficult conditions. A third hinge that is attached in the top third of the door frame can increase the load-bearing capacity of the hinges by around one third. The data in the table refer to a door leaf size of 2 x 1m, the use of two hinges and professional installation.

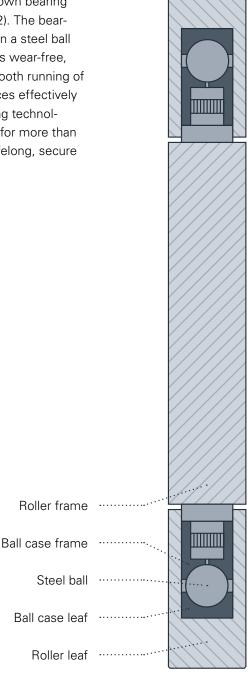
The numerous individual selection criteria such as areas of use, frequency of door passage etc. cannot be taken into account when determining the values. For this reason we recommend including safety reserves in the calculation and the selection of corresponding hinges to protect individuals.

We will be happy to help if you have any queries.



PREMIUM BALL BEARINGS

The quality of a hinge is determined to a great extent by the quality of the bearing. That is why ECO Schulte has developed its own bearing technology for its object hinges (patent: DE 103 61 548.2). The bearing is characteristic: the roller is guided top and bottom on a steel ball in two high-strength plastic cases. This specific bearing is wear-free, maintenance-free and clearance-free and guarantees smooth running of the door. The double bearing controls axial and radial forces effectively and permanently. In a series of practical tests, this bearing technology was successfully tested by an independent institute for more than one million closing actions. That more than guarantees lifelong, secure fastening.





ADVANTAGESECO **HORIZON**





Performance criteria

Hinge class: 14

Use class: 4, very heavy

Long-term operability: 200,000 cycles

USPs

- Clearance-free, patented and maintenance-free premium ball bearing
- Automated, innovative production technology with minimum tolerances and gap dimensions
- No lubricants used
- Easy to clean thanks to closed
 hinge roller especially suitable for hygiene-critical areas
- Opening resistance significantly under the test norm required
- Guarantee: Entire service life

Burglar resistance

- No pin securing necessary, since there is no full floating axle
- Not possible to lever out the closed hinge roller (made of solid material)

Design

- Seamless hinge design without cover head top/bottom thanks to closed hinge roller
- Attractive finish pattern thanks to longitudinal polishing
- Automated, innovative production technology with minimum tolerances thanks to laser welding technology





I ELLIGEN DOR MAN



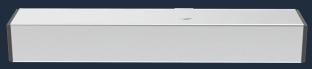




ETS OPERATOR



ETS 42 Swing door operator (EN 2 – 4)



ETS 73 Swing door operator (EN 3 – 7)



SGS-ETS standard arm



NG-ETS slide arm



ORS 142 W - Smoke detector



D-BEDIX control device for ETS



Clamping pieces



Radar Eagle One



Flatscan

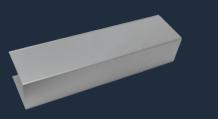


Remote control



ETS OPERATOR





Cladding for double leaf doors



Sensor strip set III



Mounting plate for ETS-73 (MPL)



FTA ECO Vent

FTA ECO-Vent TS-62 FTA 600 R

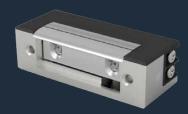




ELECTRIC STRIKES



ES 480 Series



ES 350 Series







EM-LOCKS



EM 280 Electromagnetic lock



EM 280 D Electromagnetic lock



DL 300SLD Electric drop bolt



BRACKETS





280ZL





280ZLC





280G



280DZLC



CONTROL ELEMENTS



OPB 05 Standard exit button



OPB 06 Piezoelectric exit button



OPB 07 Infrared sensor exit button



FL11-02 / FL93-02 Finger print reader



Contactless motion detector (magic switch)



CR 03 Card reader



CR 04 Card reader with touch keypad



CW 02 Card issuer



IC Key Fob



TERMINAL SOLUTIONS



FT3 Basic Emergency exit terminal



FTI Emergency exit terminal



ITM ACCESSORIES



DH602S Extended Wall-Mounted Door Holder (with monitoring)



DH604S Standard Wall-Mounted Door Holder (with monitoring)



DH605S Standard Floor-Mounted Door Holder (with monitoring)



CL 2901 Cable loop



Door magnetic contact



FL-RP22-DIN Control for fingerprint



ITM ACCESSORIES



AC 12 Controller and power supply



AC 22 Controller and power supply

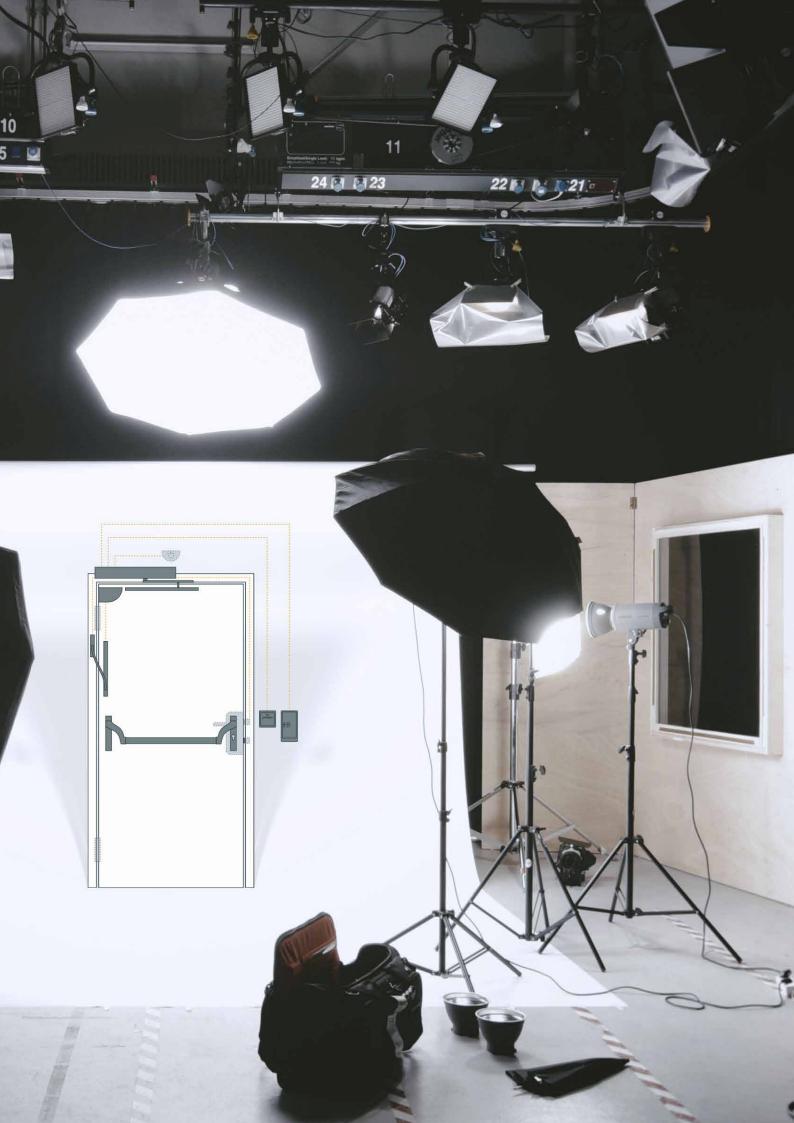


AC 41 Controller and power supply



PS 2212 Power supply







ENDLESS SPACES. GLASS DOOR TECHNOLOGY





PATCH FITTINGS



GLASS DOOR PULL HANDLES



GLASS DOOR HANDLES AND LOCKS







ACCESSORIES FOR GLASS DOORS













MANAGING ACCESS. CYLINDER TECHNOLOGY





EUROPROFILE CYLINDERS

Tests / standards

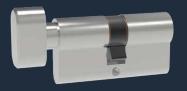




CY Double Cylinder



TCY Thumb Turn Cylinder



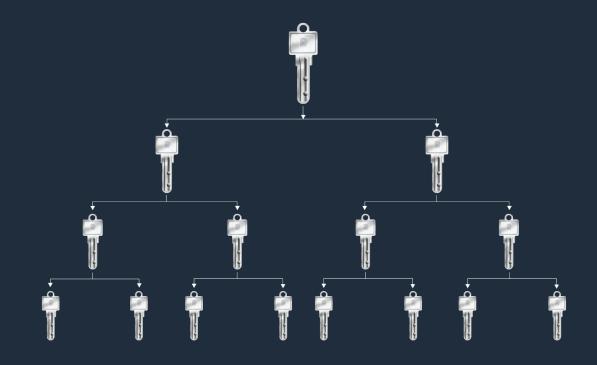
BCY Bathroom Cylinder



HCY Half Cylinder

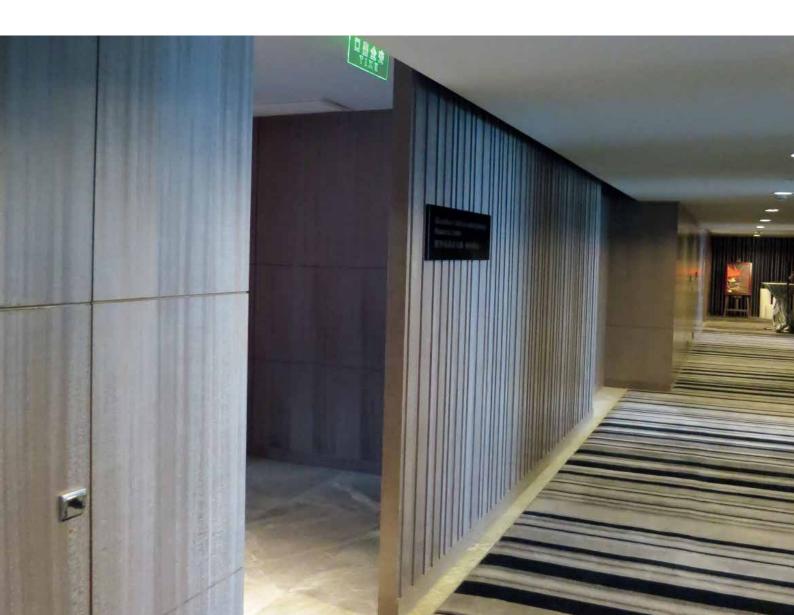
MASTERKEY SYSTEM

- One present key needed to open any door in the building
- Up to 5 levels
- Available with patented keyway
- Suitable for all kinds of locks





HOLISTIC SOLUTIONS. SLIDING DOOR TECHNOLOGY





SLIDING SYSTEM FOR TIMBER DOORS

Product characteristics	
Product	Max. Door Weight
HR SL60-W	60 kg
HR SL100-W	100 kg
HR SL160-W	160 kg
HR SL250-W	250 kg



SLIDING SYSTEM FOR GLASS DOORS

Product characteristics	
Product	Max. Door Weight
HR SL80-G	80 kg
HR SL120-G	120 kg



SLIDING DOOR ACCESSORIES







WC Rosette **Escutcheon Sets**





PZ Rosette **Escutcheon Sets**



WC Oval Plate **Escutcheon Sets**



Escutcheon Sets



THE SCANDINAVIAN HAND. HANDLES DESIGNED BY ARCHITECTS

For decades the name Randi has been synonymous with high quality products in stainless steel and brass. Since the beginning, Randi's design philosophy has been: simplicity and flexibility. To create the best possible function in the most suitable material using the simplest design expression. Randi A/S has developed two unique, first-class series of door handles- the Randi Line and the Classic Line- designed in collaboration with leading Danish architects.









RANDI-LINE® DESIGN

AART designers





C.F. Møller Architects





1073





Friis & Moltke Design









Architect Jørn Schütze





Architects Benedicte & Poul Erik Find





3010

Design Studio Lars Vejen





Architect Christoffer Harlang

CEBRA Architecture







RANDI-LINE®



LINE 18®



Further product lines and models can be found on www.randi.com



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