

New Generation Direct Drive System

ES Proline & KTV Atrium Flex





ES PROLINE

The new generation of sliding door operators – powerful, quick and networked.

The new ES PROLINE drive system for automatic sliding doors is the ideal solution in almost all applications and areas of use. It features many enhanced functions and attributes compared to the previous drive system. The modular structure of the system enables it to be used with classic sliding doors, sliding doors with escape route functions and with telescopic sliding doors.

The ES PROLINE is a sound investment for the future. This drive system addresses current topical issues such as sustainability and digitisation. The ES PROLINE also complies with the current European and German standards and safety regulations DIN 18650 and EN 16005.



Powerful

The ES PROLINE is equipped with modern dormakaba Direct Drive motor technology for the dynamic opening and closing of sliding doors. The ES 400 PRO drive model can be used for door leaves with a weight of up to 2 x 200 kg.



Durable

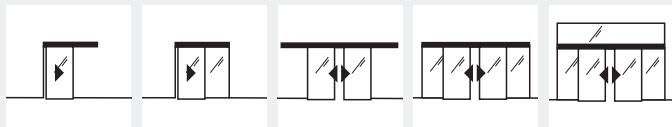
Verified dormakaba quality is the goal of the ES PROLINE. This drive system successfully passed tests involving **1.5 million opening and closing cycles**. This extends the service life of doors by 50%.



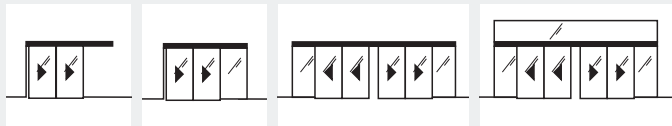
Quick

The ES PROLINE opens and closes automatic sliding doors swiftly. This ensures a smooth flow of users even in areas with a high volume of traffic. It also contributes to reducing energy losses caused by open doors.

ES PRO for sliding door systems ST



ES PRO T for telescopic sliding door systems TST



Modular

The adaptable ES PROLINE can be used to satisfy varying requirements for automatic sliding doors. The modular kit can be universally combined with standard doors, escape route doors and telescopic sliding doors. Converting existing systems (dormakaba ES 200) is quite straightforward.

ES PROLINE EASY

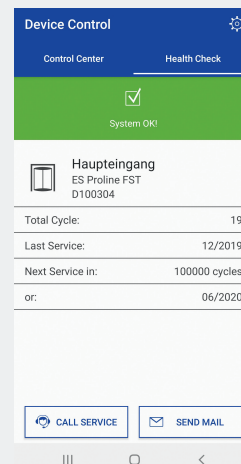
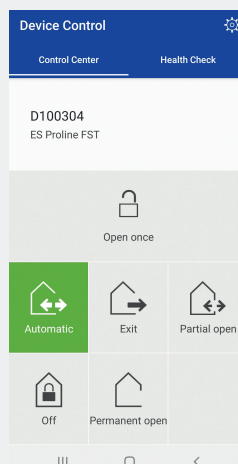
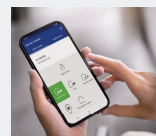
Entry-level solution with a Direct Drive Unit (DDU).

ES PROLINE

For standard sliding doors with door leaves weighing up to 2 x 200 kg and optional expansion modules.

Door Pilot App

The dormakaba Door Pilot app allows automatic doors to be easily controlled from a smartphone. Operators from the ES PROLINE series can be equipped with the Door Pilot interface as an option. The app is available in iOS and Android versions and can be obtained from the respective app store.



Sustainable

The ES PROLINE modular system is economical and utilises dormakaba Direct Drive motor technology. In addition, the packaging material is 100% recyclable.



Quiet

Its gearless motor means that the ES PROLINE opens and closes sliding doors extremely quietly. Making it ideal for use in applications particularly sensitive to noise.



Connected

The ES PROLINE drive can be equipped with a module that enables it to be controlled by an app. The app also provides useful additional information and a direct link to dormakaba Service.

Sliding door operators

with and without FST escape route function



The innovative ES PROLINE sliding door drive system can be used for classic single-leaf or double-leaf sliding door applications without a hitch. It can also be used on escape route and emergency exit doors, as well as with particularly heavy door leaves.

System dimensions and max. door leaf weight

	1-leaf		2-leaf	
Door parameters	ES 250 PRO ES 250 PRO FST ES 250 PRO EASY	ES 400 PRO ES 400 PRO FST	ES 250 PRO ES 250 PRO FST ES 250 PRO EASY	ES 400 PRO ES 400 PRO FST
Max. door leaf weight	1 x 125 kg	1 x 250 kg	2 x 125 kg	2 x 200 kg
Clear passage width LW*	700 – 3000 mm		800 – 3000 mm	
Clear passage height LH	2000 – 3000 mm		2000 – 3000 mm	
Estimated door leaf weight				
Door leaf weight	$\frac{LH \text{ [m]} \times LW \text{ [m]} \times \text{weight of glass [kg/m}^2\text{]}}{\text{Number of door leaves}}$			

Normal glass weights: 10 mm glass thickness e.g. toughened safety glass 10: 25 kg/m², 12 mm glass thickness e.g. double glazing 22, 2 x laminated safety glass 6: 30 kg/m²

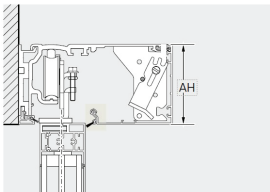
*The minimum clear passage width for escape route sliding doors is specified in the relevant regional building codes and may vary. The maximum practicable dimensions are subject to the respective door plans and door requirements and also depend on the selected profile system.

Casing variants



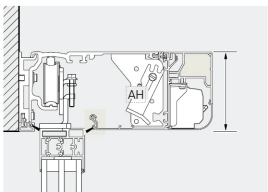
Standard casing

The standard casing for ES PROLINE operators is available in two different versions (height 100 mm, 150 mm). A cover bracket is supplied as standard and allows the casing to be opened in three different positions.

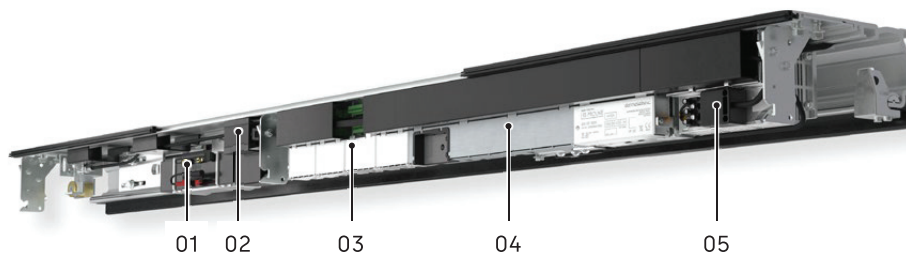


Sensor casing

Sensor casing is the right solution when it comes to premium design requirements. It creates a sleek look for doors with 100 mm drive heights. Activation and safety sensors are integrated into the drive system. There is no need for disruptive additional units and visible components. The sensor casing is approved for doors with a clear passage height of max. 3000 mm.



- 01 Battery
- 02 Door Pilot interface
- 03 Expansion modules
- 04 Drive unit
- 05 Power supply unit



Technical data for sliding door operators

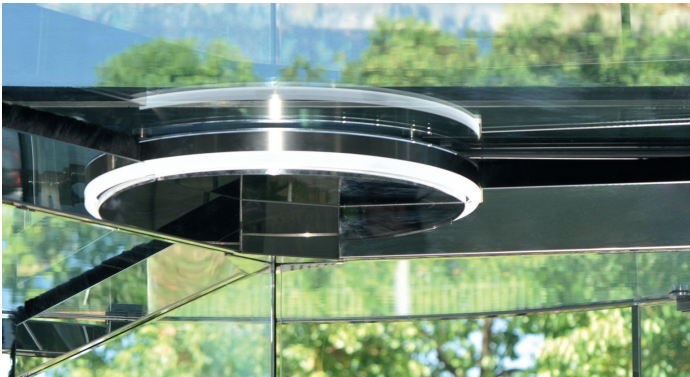
	Standard sliding door			Escape route sliding door	
Door parameters	ES 250 PRO	ES 400 PRO	ES 250 PRO EASY	ES 250 PRO FST	ES 400 PRO FST
Min. operator length	2 LW	2 LW	2 LW	2 LW	2 LW
Operator depth in mm	180	180	180	180	180
Operator height in mm	100	100	100	100	100
Use in escape routes and emergency exits	-	-	-		
Force limitation in accordance with EN 16005/DIN 18650	●	●	●	●	●
Operating noise	<47 dB(A)	<47 dB(A)	<47 dB(A)	<47 dB(A)	<47 dB(A)
Settings					
Opening speed (adjustable in increments)	10 – 70 cm/s	10 – 90 cm/s	10 – 70 cm/s	ca. 20 – 70 cm/s	ca. 20 – 90 cm/s
Closing speed (adjustable in increments)	10 – 70 cm/s	10 – 90 cm/s	10 – 70 cm/s	10 – 70 cm/s	10 – 90 cm/s
Low speed OPEN	0 – 9 cm/s	0 – 9 cm/s	–	0 – 9 cm/s	0 – 9 cm/s
Low speed CLOSE	3 – 9 cm/s	3 – 9 cm/s	–	3 – 9 cm/s	3 – 9 cm/s
Hold-open time, night/bank hold-open time	0 – 180 s	0 – 180 s	0 – 180 s	0 – 180 s	0 – 180 s
Night/bank opening delay	0 – 10 s	0 – 10 s	–	0 – 10 s	0 – 10 s
Partial opening	25 – 300 cm	25 – 300 cm	25 – 300 cm	25 – 300 cm	25 – 300 cm
Low-speed travel OPEN/CLOSE	0 – 30 cm	0 – 30 cm	0 – 30 cm	0 – 30 cm	0 – 30 cm
Power supply					
Supply voltage	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
Power consumption	130 W	180 W	130 W	130 W	180 W
On-site line fuse	10 A	10 A	10 A	10 A	10 A
Degree of protection	IP 20	IP 20	IP 20	IP 20	IP 20
Power supply for peripheral equipment under network conditions	24 V DC/2A	24 V DC/2A	27 V DC/1A	24 V DC/2A	24 V DC/2A
Power supply for peripheral equipment in the event of a power failure (battery operation)	Optional 21–27 V DC/2A	Optional 21–27 V DC/2A	Optional 21–27 V DC/1A	21–27 V DC/2A	21–27 V DC/2A
Temperature range	-20 – + 60 °C	-20 – + 60 °C	-20 – + 60 °C	-20 – + 60 °C	-20 – + 60 °C
Permissible air humidity (relative) (non-condensing)	max. 93 %	max. 93 %	max. 93 %	max. 93 %	max. 93 %
Standardisation and testing					
Compliant with the Low Voltage Directive and the EMC Directive	●	●	●	●	●
Monitoring of secondary closing edges verified to fulfil German standard DIN 18650 and EN 16005.	●	●	●	●	●
Manufactured to ISO 9001	●	●	●	●	●
Environmental product declaration according to ISO 14025; declaration holder: Institut Bauen und Umwelt e.V.	●	●	●	●	●

KTV ATRIUM FLEX

All-glass – simply all glass

Reinventing the revolving door. The all-glass ceiling and a clearance height of up to four metres make for a breath-taking sense of transparency. The discreet direct drive in the centre of the ceiling reduces planning effort and guarantees easy installation and safe operation.

KTV ATRIUM FLEX revolving doors are up-market architectural solutions for discerning building owners.

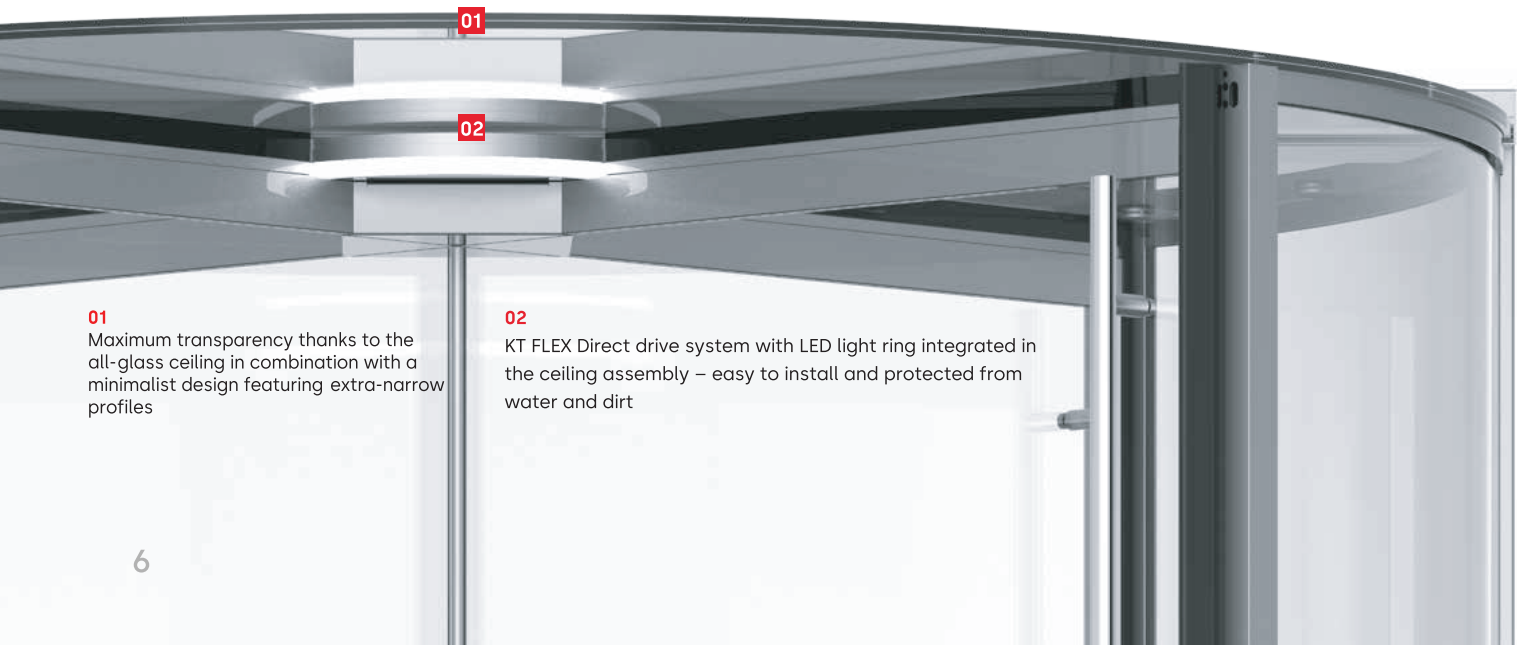


Strikingly subtle: Compact KT FLEX Direct drive system

Overview: System dimensions

Diameter	2,000–3,000 mm
Clearance height	2,100–4,000 mm
Number of door wings	3 or 4

The innovation lies within the glass ceiling. Small and protected from dirt and rainwater. System planning and construction are simplified and less costly, as there is no need for a floor pit with a complex drainage system. The electromagnetic drive works without a transmission gear, so it is extremely quiet, low-wear and low-maintenance. Depending on the operating mode, the turnstile is moved manually, power-assisted or fully automatically and its rotation speed is limited. The system controls are discreetly integrated in the design and do not require an additional control cabinet.



01 Maximum transparency thanks to the all-glass ceiling in combination with a minimalist design featuring extra-narrow profiles

02 KT FLEX Direct drive system with LED light ring integrated in the ceiling assembly – easy to install and protected from water and dirt



Scan the barcode for more information about KTV ATRIUM FLEX.

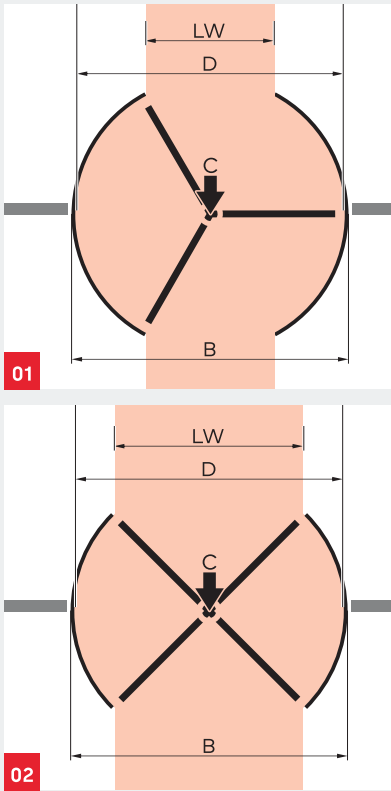


3 or 4-wing turnstile.Safe with floor locking device.

The turnstile can be equipped with three or four door wings. The advantage of the 3-wing door is that it provides more space in the individual segments. The lower weight also reduces the effort needed to enter manual and power-assisted doors. In addition, 3-wing doors make the clearance heights greater and brighter, which in turn allows for particularly slim door designs.

4-wing doors offer wider entrance and exit areas to facilitate simultaneous entering and exiting of the facility. With a higher number of seals toward the posts, such doors also provide better protection against draughts, noise and external climatic influences when in the rest position.

In both cases, the doors are locked against unauthorised access by means of a floor lock installed on the lower door wing section.



Possible Dimensions

The table shows the possible system dimensions. Any intermediate size is possible.

01 3-wing door KTV 3 ATRIUM FLEX

D	Inside diameter	2,000 2,200 2,400 2,600 2,800 3,000
B	Outside diameter	$W = D + 98 \text{ mm}^*$
LW	Clear passage width	900 1,000 1,100 1,200 1,300 1,400
LH	Freely selectable from	2,100 to 4,000 mm

02 4-wing door KTV 4 ATRIUM FLEX

D	Inside diameter	2,000 2,200 2,400 2,600 2,800 3,000
B	Outside diameter	$W = D + 98 \text{ mm}^*$
LW	Clear passage width	1,331 1,472 1,614 1,755 1,896 2,038
LH	Freely selectable from	2,100 to 4,000 mm

Minimum façade opening height $H = LH + \text{min. } 40 \text{ mm}$
Minimum façade opening width $= W + \text{min. } 80 \text{ mm}$
* With stainless steel sheeting $W = D + 102 \text{ mm}$

Access Automation Solutions

Entrance Automation
Entrance Security
Glass Partition Walls



Access Control Solutions

Escape and Rescue Systems
Lodging Systems
Electronic Access & Data



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems
Glass Door Fittings



Services

Technical Support
Installation and commissioning
Maintenance and Repair



Sustainability

We are committed to fostering a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. We seek an open, transparent dialogue with all stakeholders to define strategies and actions based on clear targets and continuous improvement, and we actively report on our progress.



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