High-speed doors

for Material – Transport – Logistics

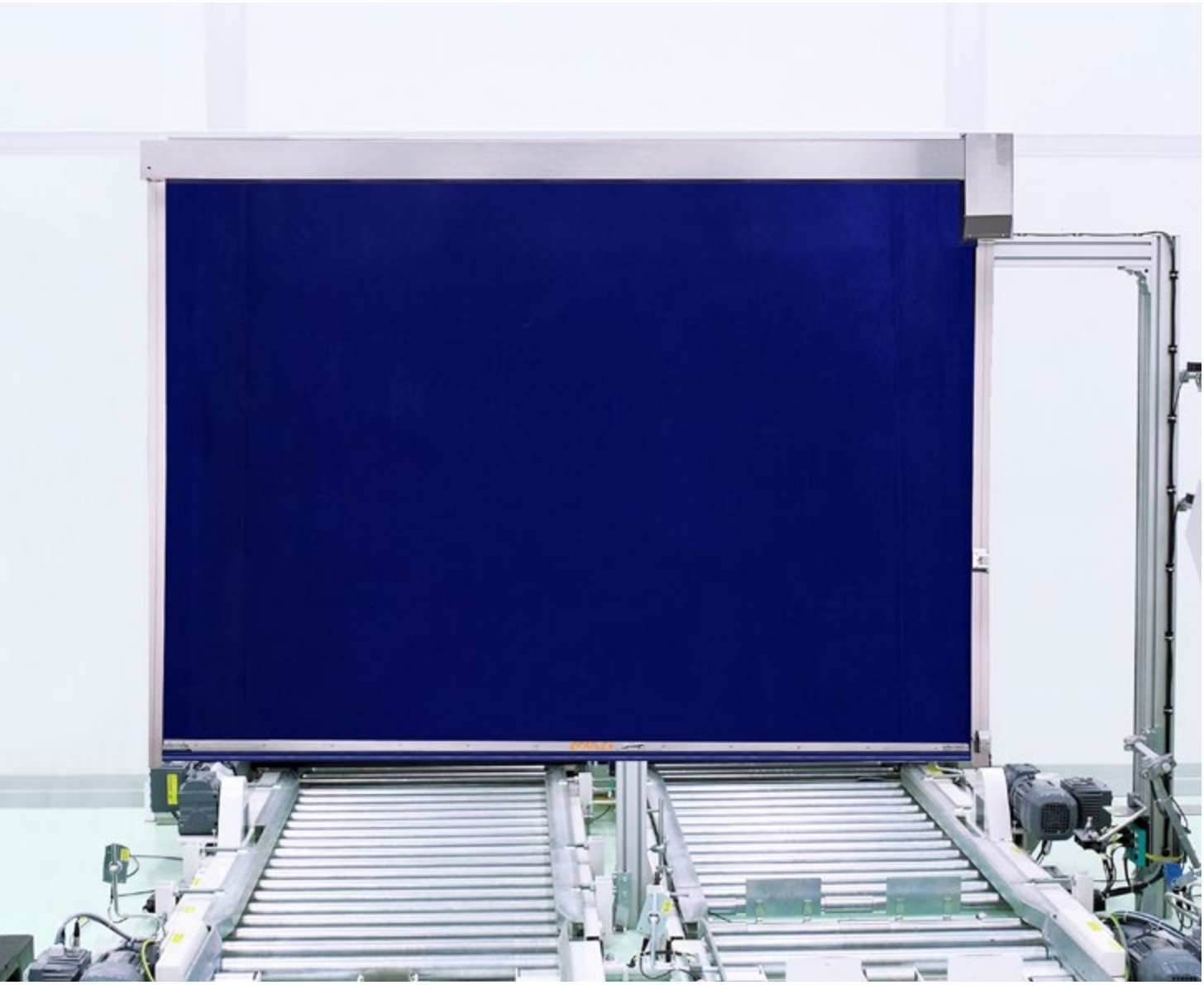
MTL Series

EFAFLEX

safe high-speed doors

MTL Series

The abbreviation MTL stands for Material – Transport – Logistics. The unique, modular design of the EFA-SRT® MTL components makes a critical difference here: Combine perfectly matched and mutually variable modules to create an optimum solution for professional material flows, perfect transport and efficient logistics.



EFA-SRT® MTL AT A GLANCE:

- High-speed roll-up door for industrial and commercial applications in the field of materials handling technology
- Particularly suitable for confined spaces (door frame width just 60 mm)
- Opens in up to 1.5 m/s
- Closes in up to 1.0 m/s
- Maximum of 6 cycles per minute
- Standard sizes up to w=3,000 mm, h=3,000 mm

The high-speed roll-up door for logistics. EFA-SRT® MTL

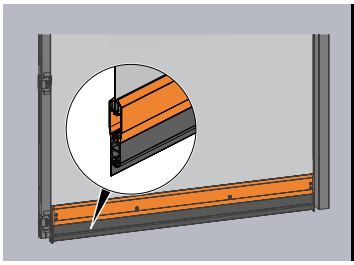
The EFA-SRT® MTL is designed for all applications within intensive logistics processes and is particularly suitable for commercial and industrial use in enclosed areas that are not exposed to wind or weather conditions. With a multitude of application, equipment and combination options, the high-speed roll-up door (SRT) spans a wide range of conceivable applications in the eponymous field of "Material – Transport – Logistics" (MTL).

Individually configurable end elements

In logistics, there is initial differentiation between the following areas of application:

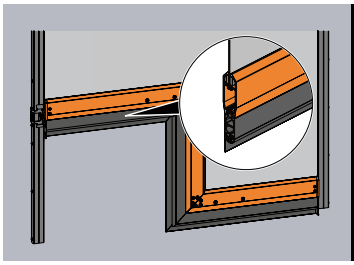
EFA-SRT® MTL AS ACCESS RESTRICTION (FTM) WITH PERSONAL PROTECTION

To guarantee the protection of persons, doors in danger zones are equipped with safeguarding systems such as a safety contact strip and light barrier or a door light grid (DLG). A typical application would be the use of an EFA-SRT® MTL at the end of a roller conveyor, at the transfer point from an automatic conveyor system to hand pallet trucks driven by workers, for instance.



STRAIGHT END ELEMENT

For all areas of application, a horizontally continuous end profile with safety edge in conjunction with light barrier(s) can be used as the end element of the door leaf. We also offer the possibility of protection with a door light grid (DLG).

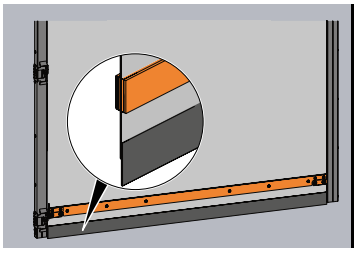


END ELEMENT WITH DOOR LEAF EXTENSION

Thanks to the individually configurable, local door leaf extension, optimal adaptation to on-site conditions is possible. The door leaf extension is equipped with a horizontal safety edge on the end profile as shown in the drawing. In addition, the door closing level is monitored by light barrier(s).

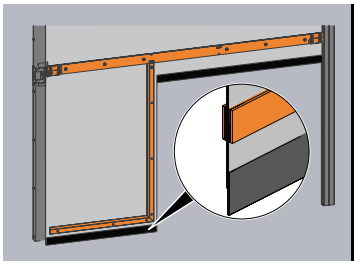
EFA-SRT® MTL AS ACCESS RESTRICTION (FTO) WITHOUT PERSONAL PROTECTION

Access to danger zones is made more difficult by the door, but not prevented completely. In areas that are reserved for conveyor technology, it is not necessary to equip MTL doors with personal protection. This is referred to as "access restriction", because during regular operation, no persons are allowed to enter the system, and access is only permitted for instructed personnel after the entire system has been shut down, e.g. for service work and/or inspection purposes.



STRAIGHT END ELEMENT

The use of a door light grid is not possible when using this end element, which consists of overlaid steel sheets. Light barriers can optionally be integrated.



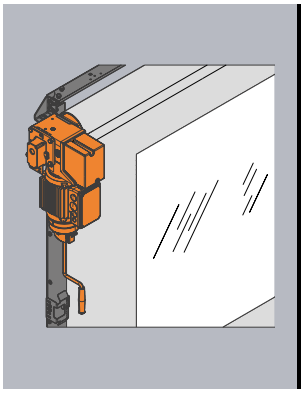
END ELEMENT WITH DOOR LEAF EXTENSION

Thanks to the individually configurable, local door leaf extension, optimal adaptation to on-site conditions is possible. The door leaf extension is reinforced with aluminium profiles. The use of a door light grid is not possible when using this end element. Light barriers can optionally be integrated.

Wide range of drive types

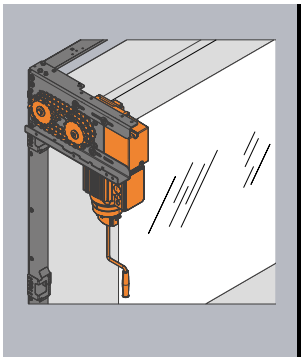
VARIOUS DRIVE MODULES

The EFA-SRT® MTL is used for all applications in intralogistics. Based on the installation situation, the space conditions and the process-related specifications, you will always find a suitable drive. We use frequency converters as standard to ensure a long service life and dynamic door operation. Various emergency operation methods, safety and pulse encoder systems are available as required. This guarantees the protection of persons and smooth operational processes. Furthermore, the use of mechanical and/or inductive limit switches (up to Cat IV) is possible.



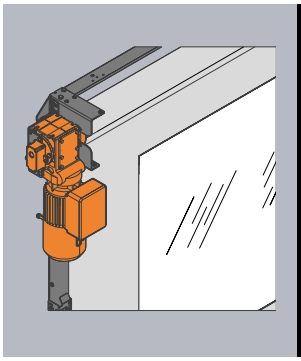
1 DIRECT MOUNT DRIVE WITH WORM GEAR WITH GEAR BREAKAGE PROTECTION — ASN (FTM, FTO)

Mechanical emergency operation	Using manual emergency operation / crank
Performance class / type of protection	0.55 kW, 100 Hz, IP54
Position recording	Absolute encoder (no reference travel required)
Use with access restriction (passenger traffic – FTM)	Standard
Use with access restriction (without passenger traffic – FTO)	Option



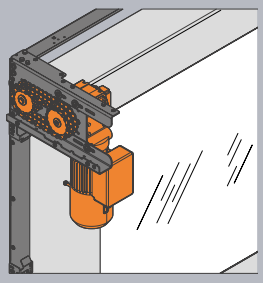
2 CHAIN DRIVE WITH WORM GEAR WITH GEAR BREAKAGE PROTECTION — KSN (FTM, FTO)

Mechanical emergency operation	Using manual emergency operation / crank
Performance class / type of protection	0.55 kW, 100 Hz, IP54
Position recording	Absolute encoder (no reference travel required)
Use with access restriction (passenger traffic – FTM)	Option
Use with access restriction (without passenger traffic – FTO)	Option



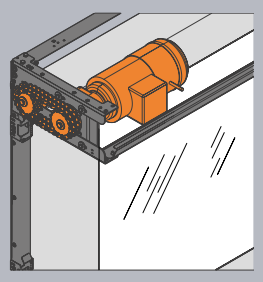
3 DIRECT MOUNT DRIVE WITH BEVEL SPUR GEAR — AKS (FTO)

Mechanical emergency operation	Without emergency operation function
Performance class / type of protection	0.75 kW, 100 Hz, IP54
Position recording	Incremental encoder, optional: Absolute encoder (no reference travel required)
Use with access restriction (without passenger traffic – FTO)	Standard
Use with access restriction (passenger traffic – FTM)	Not possible



4 CHAIN DRIVE WITH BEVEL SPUR GEAR — KST (FTO)

Mechanical emergency operation	Without emergency operation function
Performance class / type of protection	0.75 kW, 100 Hz, IP54
Position recording	Incremental encoder, optional: Absolute encoder (no reference travel required)
Use with access restriction (without passenger traffic – FTO)	Option
Use with access restriction (passenger traffic – FTM)	Not possible



5 CHAIN DRIVE WITH SPUR GEAR — KSR (FTO)

Mechanical emergency operation	Without emergency operation function
Performance class / type of protection	1.5 kW, 100 Hz, IP54
Position recording	Absolute encoder (no reference travel required)
Use with access restriction (without passenger traffic – FTO)	Option
Use with access restriction (passenger traffic – FTM)	Not possible

The customised plant solution.
EFA-SRT® MHT Compact

Capable of up to 500,000 load changes per year, the innovative EFA-SRT® MHT Compact performs the highest number of openings and closings on the market. The door also impresses with its compact design with control integrated into the frames and a self-supporting construction. This allows it to be flexibly integrated and customised into complex systems, such as baggage handling at airports.

EFA-SRT® MHT COMPACT AT A GLANCE:

- Door system for industrial and commercial purposes in materials handling technology
- Control system completely integrated in construction
- Self-supporting frames due to floor fixation
- 3 cycles per minute
- Opening speed up to 1.5 m/s
- Up to 500,000 load changes p.a.
- Standard sizes up to w=1,600 mm, h=1,600 mm

HIGHEST NUMBER OF OPERATING CYCLES

Thanks to its robust and durable design, the door effortlessly manages up to 500,000 cycles per year. This is the highest number of load changes on the market.

SELF-SUPPORTING CONSTRUCTION

For use in complex systems, EFAFLEX offers a compact and tailor-made solution with the new EFA-SRT® MHT Compact high-speed roll-up door. Due to its self-supporting construction and the control integrated into the frame, it can also be installed in cramped, or limited space locations. In addition, depending on the requirements, different curtain sections are possible for the conveyor technology.

MODERN PLANT DESIGN

Due to its easy integration and system design, the EFA-SRT® MHT Compact is ideally suited for use on automatic conveyors or transport systems. The roll-up door ensures a safe and fast material flow and is mainly installed in the airport area. It not only impresses with its modern design, but also with its compact structure: The high-speed roll-up door has a complete cover and has no projections or protruding screws.

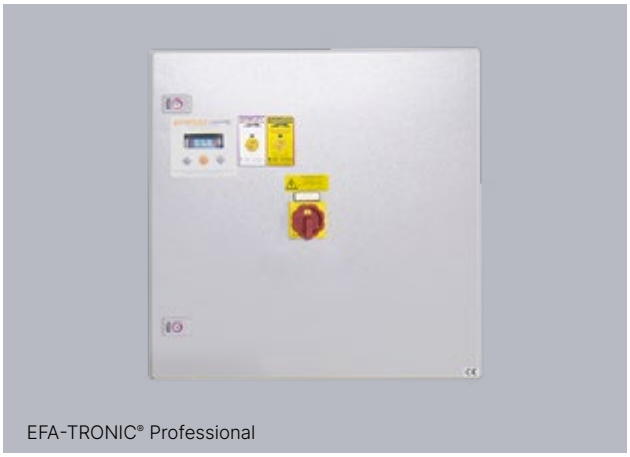
For more information on the MTL Series visit:
www.efaflex.com/mtl-series

Control modules available

Depending on your individual requirements, you can choose between various high-performance control units: We offer the EFA-TRONIC® or EFA-TRONIC® Professional in conjunction with the drive types ASN (1) and KSN (2) for FTM applications. The EFA-TRONIC® Light is only available together with the AKS drive (3) as standard for FTO applications. Upon request, this, as well as the KST (4) and KSR (5) variants, can be implemented as EFA-TRONIC® or EFA-TRONIC® Professional at extra cost. The latter two control units can be equipped with a multitude of interfaces upon request.

The unique, modular design of the EFA-SRT® MTL components makes the difference: Combine perfectly matched and mutually variable modules to create an optimum solution for professional material flows, perfect transport and efficient logistics.

EFA-TRONIC® Light



EFA-TRONIC® Professional

EFA-TRONIC®

WALKING INNOVATIVE PATHS TOGETHER

In deciding on an EFAFLEX high-speed door, you opt for the world's leading technology and benefit exclusively from our technical edge. We are dedicated to our doors, and although we have achieved successes, we refuse to rest on our laurels. That is why we are constantly working on developing our products further, creating new solutions for your areas of application.

Technical details
High-speed doors intralogistics

		MTL Series	
		EFA-SRT® MTL	EFA-SRT® MHT Compact
Application	Interior door	●	●
Wind load max.*	According to DIN EN 12424 class	0	–
Operating forces/ safe closing	According to DIN EN 13241 class	fulfilled	–
Air permeability*	According to DIN EN 13241 class	0	–
Direct airborne sound insulation R_w*	in dB according to DIN EN 717-1	12	12
Door size (in mm)	Width W max.	3,000	1,600
	Height H max.	3,000	1,600
Average speed, approx.*	Opening in m/s	1.5	1.5
	Closing in m/s	0.6	0.8
	Closing by door light grid EFA-TLG® in m/s	1	–
Guide of door leaf	Round Spiral	–	–
Steel design	Galvanized sheet steel frame	●	●
	Powder coated in RAL colours	○	○
Door leaf	EFA-CLEAR® Vision laths single-walled	–	–
	EFA-VENT® Ventilation laths	–	–
	EFA-ALUX® Aluminium laths	–	–
	Colour according to RAL (without vison panel)	–	–
	Door curtain made of flexible PVC, transparent with warning stripes in different colours	●	–
	flexible fabric in different colours with/ without vison panel	○/○	–/●
Fire class	Building Material class DIN 4102	B2	B2
Weight balancing by		–	–
Designed for approx ... operating cycles per year		250,000	500,000
Drive	Electric motor	●	●
Control	EFA-TRONIC®	○	–
	EFA-TRONIC® Light	●	●
	EFA-TRONIC® Professional	–	–
	Main switch and foil keypad	–/●	–
Lead	Electricity connection 230 V/50 Hz	●	●
	Electricity connection 400 V/50 Hz	○	–
	Circuit breaker	16 A (K)	16 A (K)
Emergency operation	Automatic after manual activation	–	–
	Manual activation	○(*)	–
Safety Devices	EFA-TLG® door light grid in door closing line	○	–
	Contact edge	●	–
	Light barrier	●	–
	Approach area monitoring	○	–
	Light grid, external	○	○
Safety system including activator	EFA-SCAN® frame/bollard	–/○	–/○
	EFA-3D-SCAN	○	○

● Standard, ○ upon request, – Not available, ○(*) Depending on the type of drive,
* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

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