

# EXPANSION

## Fact Sheet freight elevators (hydraulic & traction)

EN 81-1  
EN 81-2

EN 81-20/50



Freight elevators with hydraulic or traction sheave rope drives.  
Robust version, highest availability and long service life.



NEXT LEVEL  
NEW INSTALLATIONS

ThyssenKrupp Aufzugswerke



ThyssenKrupp

# Product benefits

## Fact Sheet freight elevators (hydraulic & traction)

### Next Level Safety

- Installation optionally in version in accordance with
  - DIN EN 81-1:1998+A3 (traction) and/or
  - DIN EN 81-2:1998+A3 (hydraulic) or
  - EN 81-20/50 with CE marking.
- Precise stops for simple loading and unloading also of high loads.

### Next Level Flexibility

- In line with the requirements, the matching elevator technology is selected from the broad and flexible range of ThyssenKrupp products and adapted to your building.
- Freight elevators can be integrated economically into individual and diverse transport and logistics tasks, and can even become integral constituent parts of production processes.

### Next Level Design

- Large selection of equipment for attractive integration into your building.

### Next Level Comfort

- High travel comfort through the use of controlled hydraulic- and/or frequency-controlled traction drives.

### Next Level Quality

- Deployment of resilient technology with robust and solid equipment form the basis of high availability and long service life even under extreme stresses.

### Next Level Reliability

- High reliability resulting from deployment of reliable components.
- Long-term and fast spare part availability.

### Energy efficiency

With our freight elevators, you can configure an elevator system that achieves a high energy efficiency class. You thereby make a significant contribution to the reduction of ongoing operating and energy costs and lowering CO<sub>2</sub> emissions.



### Freight elevators

Whether a service elevator in the hotel, an industrial elevator with a wide variety of equipment or an explosion-proof version of a freight elevator – you move a great deal with elevators from ThyssenKrupp Elevator. Where an efficient connection is needed for vertical transport, ThyssenKrupp Elevator delivers the optimal answer.

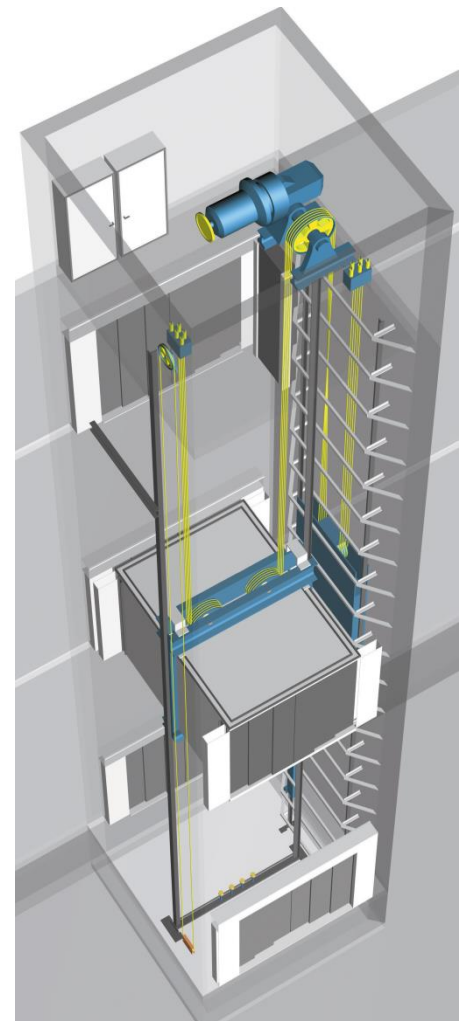
The extreme stresses to which freight elevators are usually exposed mean that long-life robustness and sustained economy are decisive quality characteristics. The latest control system technology combines with the material quality as regards solidity and stability to ensure the necessary general conditions are provided.



For freight elevators, we offer you – optimised depending on the intended purpose – the following selection of drive technologies.

Hydraulic elevators:

- BH23: lifting device at the side, direct
  - BH53: telescopic lifting device at the side, direct
  - BH33: lifting device at the side, indirect
- Traction sheave traction elevators:
- B053: frequency-controlled gear drive



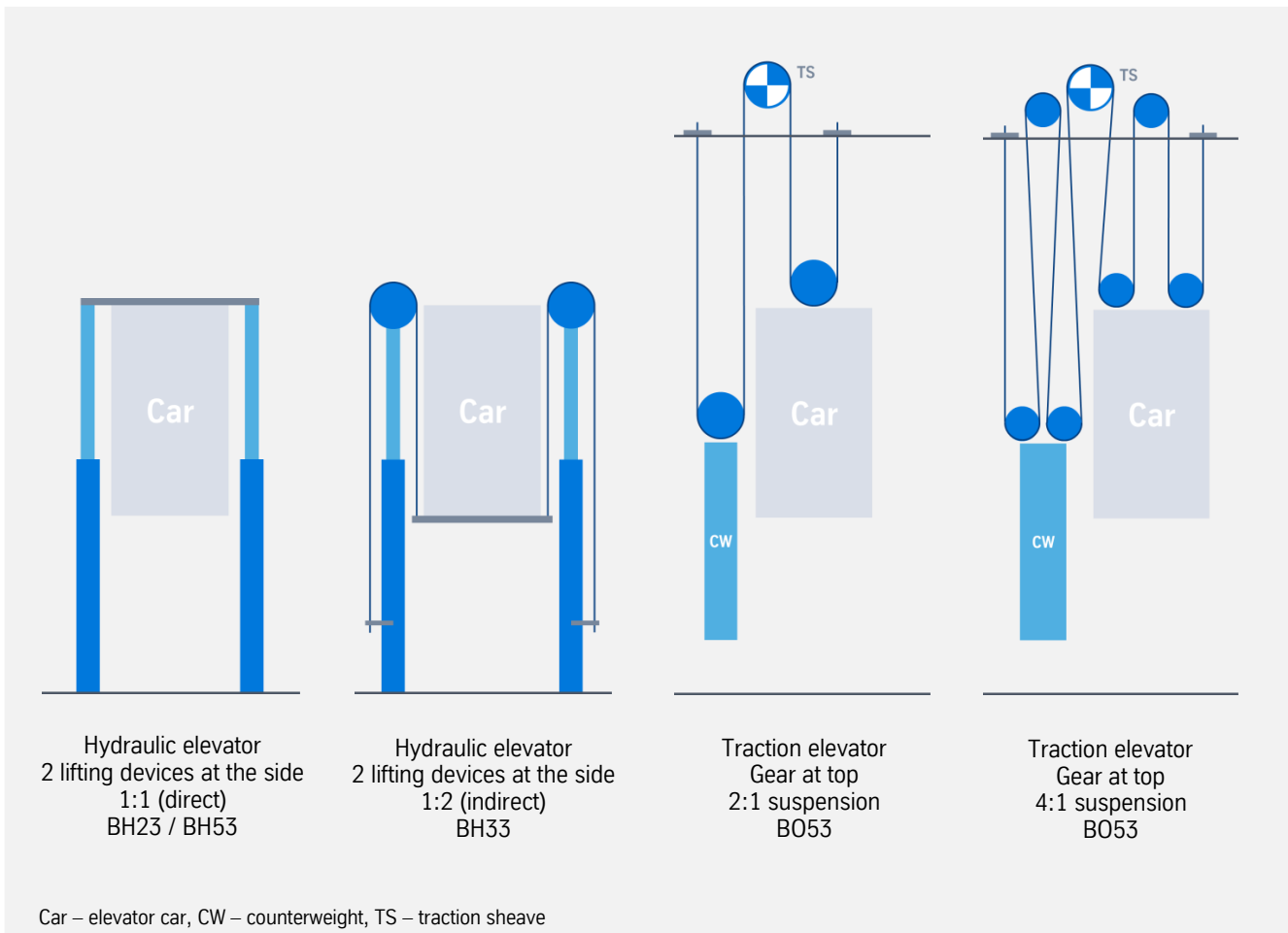
# Product overview

## Fact Sheet freight elevators (hydraulic & traction)

### Performance range

Elevator system		EXPANSION		
Type		BH23 / BH53	BH33	B053
Drive technology		Hydraulic, 2 lifting devices at the side		Traction sheave rope with gear
Suspension		1:1 (direct)	1:2 (indirect)	2:1 / 4:1
Rated load	Q [kg]	1250-6000		1800-6000
Speed	v [m/s]	0.2-0.63		0.3-1.0
Travel height	TH [m]	2.5-6.0	2.5-16.0	2.5-30
Car width	CW [mm]	1000-2850		1400-3000
Car depth	CD [mm]	2100-5850		1900-5250
Car height	CH [mm]	2000-2500		
Location of machine room		At bottom beside the shaft		At the top, above the shaft
Version in accordance with		EN 81-2 / EN 81-20/50		EN 81-1 / EN 81-20/50

### Principles



# Elevator car equipment

## Fact Sheet freight elevators (hydraulic & traction)

### 1 Car operating panel (car pushbutton box)

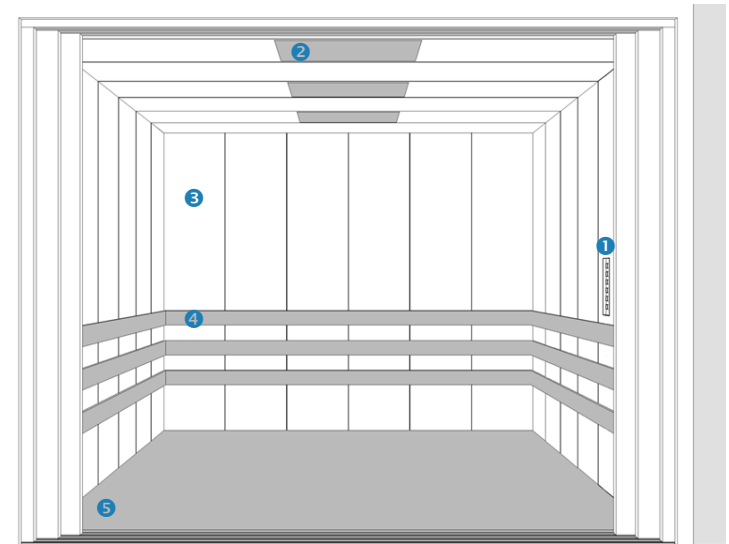
- Flush with elevator car wall
- Recessed installation



Version  
flush



Version  
recessed installation



### 2 Elevator car lighting

- Flush mounted



Fluorescent lamps

### 3 Wall panels

- Shockproof and constructively reinforced
- Wet-painted or powder-coated



Mouse Grey (standard)  
(RAL 7005)



White Aluminium  
(RAL 9006)



Traffic White  
(RAL 9016)



Stainless steel  
grain 220



Stainless steel  
Krupp design

### 4 Hand-rail and bumper rail



Hand-rail  
Stainless steel Ø 40 mm



Hard wood

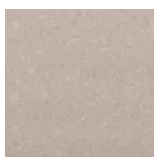


Stainless steel



Without floor cover – lowered by  
25 mm for customer-fitted floor cover

### 5 Floor cover



Ice  
Rubber



Dove Grey  
Vinyl



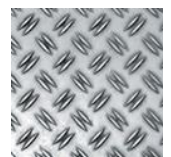
Black Stone  
Rubber



Kayar Grey  
Rubber



Kayar Black  
Rubber



Bulb plate  
Stainless steel/V2A (4 mm)  
Aluminium (3 mm)  
Steel RAL 7005 (6 mm)

# Operating and indicator elements

## Fact Sheet freight elevators (hydraulic & traction)

### Operating and indicator elements

The modern operating and indicator elements inside and outside of the elevator car are characterised by high functionality and operability and are available in various designs.

#### Buttons

##### STEP Classic

Stainless steel glass-pearl-blasted, acknowledgement LED blue or red, touch area 33 x 33 mm, optionally with haptic lettering and raised symbol combined with Braille lettering (in accordance with EN 81-70).



##### RT42wg

Stainless steel matt, acknowledgement LED blue or red, touch area Ø 33 mm, with haptic lettering and raised symbol, waterproof IP54, resistant to vandalism (in accordance with EN 81-71, category 1), optionally combined with Braille lettering (in accordance with EN 81-70).



#### Displays

##### LCD Blue Line

LCD position and travel direction indicator, including gong. Installation in the entrance above and/or beside the landing door, horizontal or vertical version. LCD display: white lettering on blue background, flush-fitted protective glass, cover plate in stainless steel grain 220, in accordance with EN 81-70.



##### LED

LED position indicator with direction arrows. Installation in the entrance above the landing door. Red LED dot matrix indicator behind flush-fit protective glass, direction arrows as flush-fit arrows made of white plastic, cover plate in stainless steel grain 220, according to EN 81-70, optionally with gong.



### Operating and indicator panel

##### SlimLIOP

LCD position and travel direction indicator, including gong. Installation in the entrance on the landing door frame or beside the landing door, surface-mounting directly onto the wall, thickness only 12 mm, width 55 mm, housing made of stainless steel grain 220, buttons STEP Classic. LCD display: white lettering on blue background or white lettering on black background, flush-mounted display, housing made of stainless steel grain 220. Version without display (SlimLOP), version with display (SlimLIOP), optionally with key switch.



# Technical data: BH23/53

## Fact Sheet freight elevators (hydraulic)

### Project planning: hydraulic freight elevator with machine room at bottom, beside the shaft

1:1

Rated load	Q	[kg]	1600	2000	2500	3000
Suspension			1:1 (direct)			
Speed <sup>2)</sup>	v	[m/s]	0.4 – 0.63			
Travel height <sup>2)</sup>	TH	[m]	2.5 – 6.0			
Drive			hydraulic			
Open through entrance			optional			
Car width <sup>2)</sup>	CW	[mm]	1150 – 1650	1350 – 1700	1600 – 2050	1900 – 2300
Car depth <sup>2)</sup>	CD	[mm]	2100 – 3000	2400 – 3000		2450 – 3000
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500			
Door width <sup>5)</sup>	DW	[mm]	800 – 1650	800 – 1700	800 – 1600	800 – 2300
Door height <sup>5)</sup>	DH	[mm]	2000 – 2500			
Distance shaft wall – elevator car	B	[mm]	400 / see planning data for doors on pages 11/12 <sup>1)</sup>			
Shaft headroom height min.	SH	[mm]	CH+1650 and/or TH-SP+1870 <sup>1)3)</sup> / CH+1650 <sup>4)</sup>			
Shaft pit depth min.	SP	[mm]	1050			

1:1

Rated load	Q	[kg]	3500	4000	4500	5000	6000
Suspension			1:1 (direct)				
Speed <sup>2)</sup>	v	[m/s]	0.2 – 0.63			0.2 – 0.5	
Travel height <sup>2)</sup>	TH	[m]	2.5 – 6.0				
Drive			hydraulic				
Open through entrance			optional				
Car width <sup>2)</sup>	CW	[mm]	1300 – 2550	1450 – 2600	1600 – 2750	1750 – 2500	1800 – 2850
Car depth <sup>2)</sup>	CD	[mm]	2550 – 5000	2800 – 5000	2950 – 5000	3550 – 5000	3650 – 5850
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500				2000 – 2800
Door width <sup>5)</sup>	DW	[mm]	800 – 2550	800 – 2600	800 – 2750	800 – 2500	800 – 2850
Door height <sup>5)</sup>	DH	[mm]	2000 – 2500				
Distance shaft wall – elevator car	B	[mm]	400 / see planning data for doors on pages 11/12 <sup>1)</sup>				550 / see planning data for doors on pages 11/12 <sup>1)</sup>
Shaft headroom height min.	SH	[mm]	CH+1700 and/or TH-SP+2350 <sup>1)3)</sup> / CH+1700 <sup>4)</sup>				CH+1700 and/or TH-SP+2400 <sup>1)3)</sup> / CH+1700 <sup>4)</sup>
Shaft pit depth min.	SP	[mm]	1050	1150		1200	

<sup>1)</sup> The higher value in each case is valid. <sup>2)</sup> Deviating dimensions are possible on request. The size of the machine room is specified on request. For fork lift traffic, hydraulic locking devices are generally required. Our sales advisors will be glad to provide information regarding the creation of exact planning data for your specific system configuration. <sup>3)</sup> For type BH23, with one-piece hydraulic lifting device. <sup>4)</sup> For type BH53, with telescopic lifting device. <sup>5)</sup> Standard dimensions DW and DH in a grade of 100 mm. The details for determining the shaft depth depend on the door type, see page 12.

# Technical data: BH33

## Fact Sheet freight elevators (hydraulic)

### Project planning: hydraulic freight elevator with machine room at bottom, beside the shaft

1:2

Rated load	Q	[kg]	1250	1600	2000	2500	3000	
Suspension			1:2 (indirect)					
Speed <sup>2)</sup>	v	[m/s]	0.4 – 0.63					
Travel height <sup>2)</sup>	TH	[m]	2.5 – 16.0					
Drive			hydraulic					
Open through entrance			optional					
Car width <sup>2)</sup>	CW	[mm]	1000 – 1300	1150 – 1650	1350 – 1700	1600 – 2050	1900 – 2300	
Car depth <sup>2)</sup>	CD	[mm]	2100 – 2800	2100 – 3000	2400 – 3000		2450 – 3000	
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500					
Door width <sup>3)</sup>	DW	[mm]	800 – 2000					800 – 2300
Door height <sup>3)</sup>	DH	[mm]	2000 – 2500					
Distance shaft wall – elevator car	B	[mm]	450 / see planning data for doors on pages 11/12 <sup>1)</sup>					
Shaft headroom height min.	SH	[mm]	CH+1700					CH+1750
Shaft pit depth min.	SP	[mm]	1050					1250

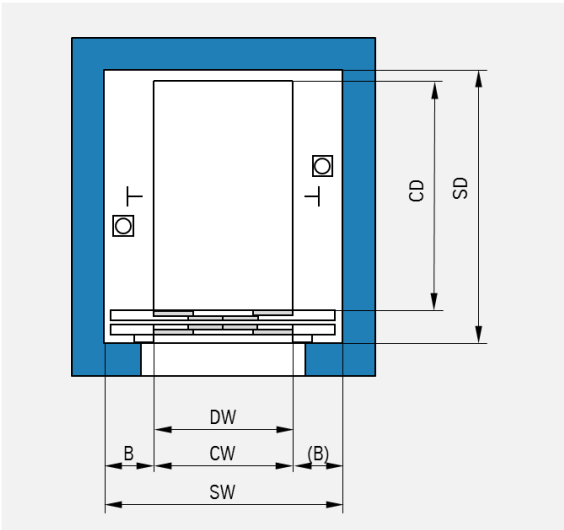
1:2

Rated load	Q	[kg]	3500	4000	4500	5000	6000	
Suspension			1:2 (indirect)					
Speed <sup>2)</sup>	v	[m/s]	0.2 – 0.63			0.2 – 0.5		
Travel height <sup>2)</sup>	TH	[m]	2.5 – 16.0					
Drive			hydraulic					
Open through entrance			optional					
Car width <sup>2)</sup>	CW	[mm]	1300 – 2550	1450 – 2600	1600 – 2750	1750 – 2500	1800 – 2850	
Car depth <sup>2)</sup>	CD	[mm]	2550 – 5000	2800 – 5000	2950 – 5000	3550 – 5000	3650 – 5850	
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500					
Door width <sup>3)</sup>	DW	[mm]	800 – 2550	800 – 2600	800 – 2750	800 – 2500	800 – 2850	
Door height <sup>3)</sup>	DH	[mm]	2000 – 2500					
Distance shaft wall – elevator car	B	[mm]	500 / see planning data for doors on pages 11/12 <sup>1)</sup>					550 / see planning data for doors on pages 11/12 <sup>1)</sup>
Shaft headroom height min.	SH	[mm]	CH+1750					
Shaft pit depth min.	SP	[mm]	1250	1400			1550	

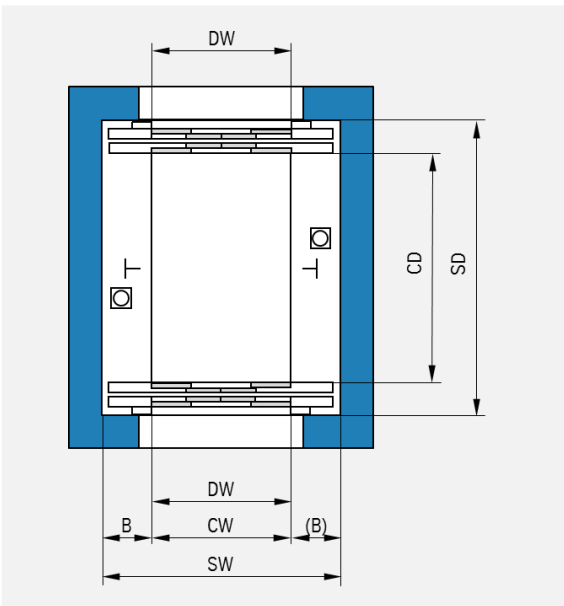
<sup>1)</sup> The higher value in each case is valid. <sup>2)</sup> Deviating dimensions are possible on request. The size of the machine room is specified on request. For fork lift traffic, hydraulic locking devices are generally required. Our sales advisors will be glad to provide information regarding the creation of exact planning data for your specific system configuration. <sup>3)</sup> Standard dimensions DW and DH in a grade of 100 mm. The details for determining the shaft depth depend on the door type, see page 12.

# Shaft drawings: BH23/53 and BH33 Fact Sheet freight elevators (hydraulic)

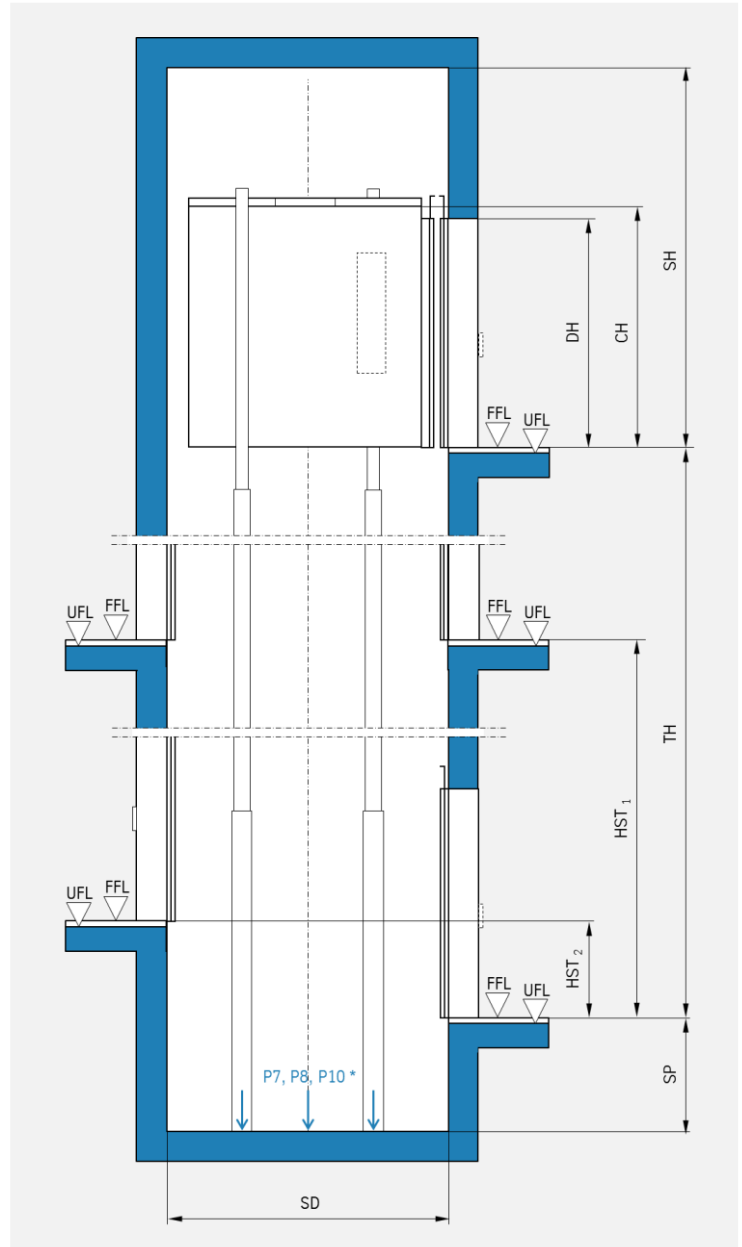
With 1 entrance



With open through entrance



Shaft vertical section



**Key:**

DH - door height	TH - travel height
DW - door width	HST - floor-to-floor distance
CH - car height	SH - shaft headroom height
CW - car width	SP - shaft pit depth
CD - car depth	FFL - upper edge finished floor
SW - shaft width	UFL - upper edge unfinished floor
SD - shaft depth	
P1... - Loads in the machine room and/or in the shaft pit	
B - distance shaft wall - elevator car	

\* The exact positions of the load points in the shaft pit are entered in the general arrangement drawing.  
Arrangement of the shaft layout is only an example and is also possible as mirror-inverted.



# Technical data: B053

## Fact Sheet freight elevators (traction)

### Project planning: traction freight elevator with machine room at top, above the shaft

**2:1**

Rated load	Q	[kg]	1800	2000	2500	3000
Suspension			2:1			
Speed <sup>2)</sup>	v	[m/s]	0.6 – 1.0			
Travel height <sup>2)</sup>	TH	[m]	2.5 – 30.0			
Drive			with gear			
Open through entrance			optional			
Car width <sup>2)</sup>	CW	[mm]	1400 – 1950	1400 – 2150	1600 – 2550	1900 – 2500
Car depth <sup>2)</sup>	CD	[mm]	1900 – 2650	1900 – 2950	1900 – 3000	
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500			
Door width <sup>3)</sup>	DW	[mm]	800 – 1950	800 – 2150	800 – 2550	800 – 2500
Door height <sup>3)</sup>	DH	[mm]	2000 – 2500			
Distance shaft wall – elevator car	B1	[mm]	570 / see planning data for doors on pages 11/12 <sup>1)</sup>	585 / see planning data for doors on pages 11/12 <sup>1)</sup>		700 / see planning data for doors on pages 11/12 <sup>1)</sup>
	B2	[mm]	300 / see planning data for doors on pages 11/12 <sup>1)</sup>			
Shaft headroom height min.	SH	[mm]	CH+1750			
Shaft pit depth min.	SP	[mm]	1450			

**2:1**
**4:1**

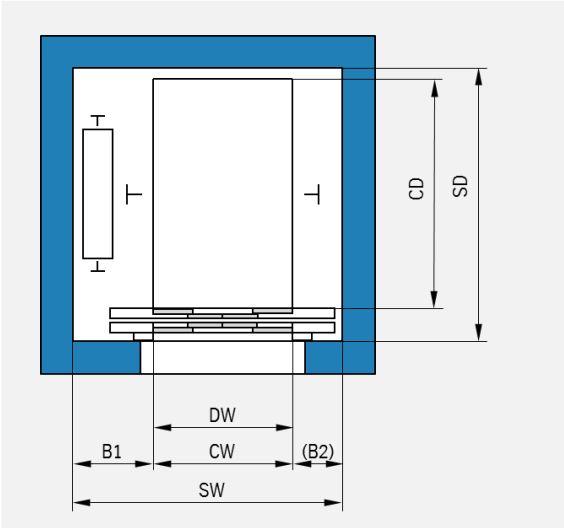
Rated load	Q	[kg]	3500	4000	4500	5000	5500	6000	
Suspension			2:1			4:1			
Speed <sup>2)</sup>	v	[m/s]	0.6 – 1.0			0.3 – 0.5			
Travel height <sup>2)</sup>	TH	[m]	2.5 – 30.0						
Drive			with gear						
Open through entrance			optional						
Car width <sup>2)</sup>	CW	[mm]	1600 – 3000		1600 – 2750	1800 – 2500	2000 – 2300		
Car depth <sup>2)</sup>	CD	[mm]	2150 – 4050	2400 – 4550	2400 – 5000	2550 – 4950	4100 – 4800	4500 – 5250	
Car height <sup>2)</sup>	CH	[mm]	2000 – 2500						
Door width <sup>3)</sup>	DW	[mm]	800 – 3000		800 – 2750	800 – 2500	800 – 2300		
Door height <sup>3)</sup>	DH	[mm]	2000 – 2500						
Distance shaft wall – elevator car	B1	[mm]	700 / see planning data for doors on pages 11/12 <sup>1)</sup>				850 / see planning data for doors on pages 11/12 <sup>1)</sup>		
	B2	[mm]	300 / see planning data for doors on pages 11/12 <sup>1)</sup>				400 / see planning data for doors on pages 11/12 <sup>1)</sup>		
Shaft headroom height min.	SH	[mm]	CH+1750			CH+1850		CH+1900	
Shaft pit depth min.	SP	[mm]	1450	1500			1650		

<sup>1)</sup> The higher value in each case is valid. <sup>2)</sup> Deviating dimensions are possible on request. The size of the machine room is specified on request. For fork lift traffic, hydraulic locking devices are generally required. Our sales advisors will be glad to provide information regarding the creation of exact planning data for your specific system configuration. <sup>3)</sup> Standard dimensions DW and DH in a grade of 100 mm. The details for determining the shaft depth depend on the door type, see page 12.

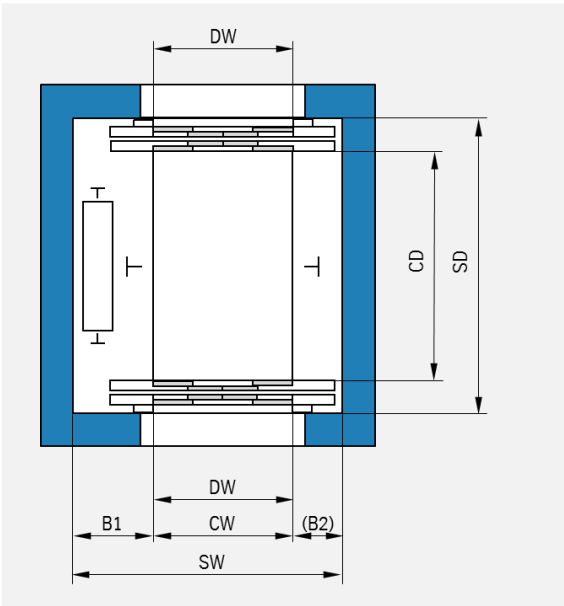
# Shaft drawings: B053

## Fact Sheet freight elevators (traction)

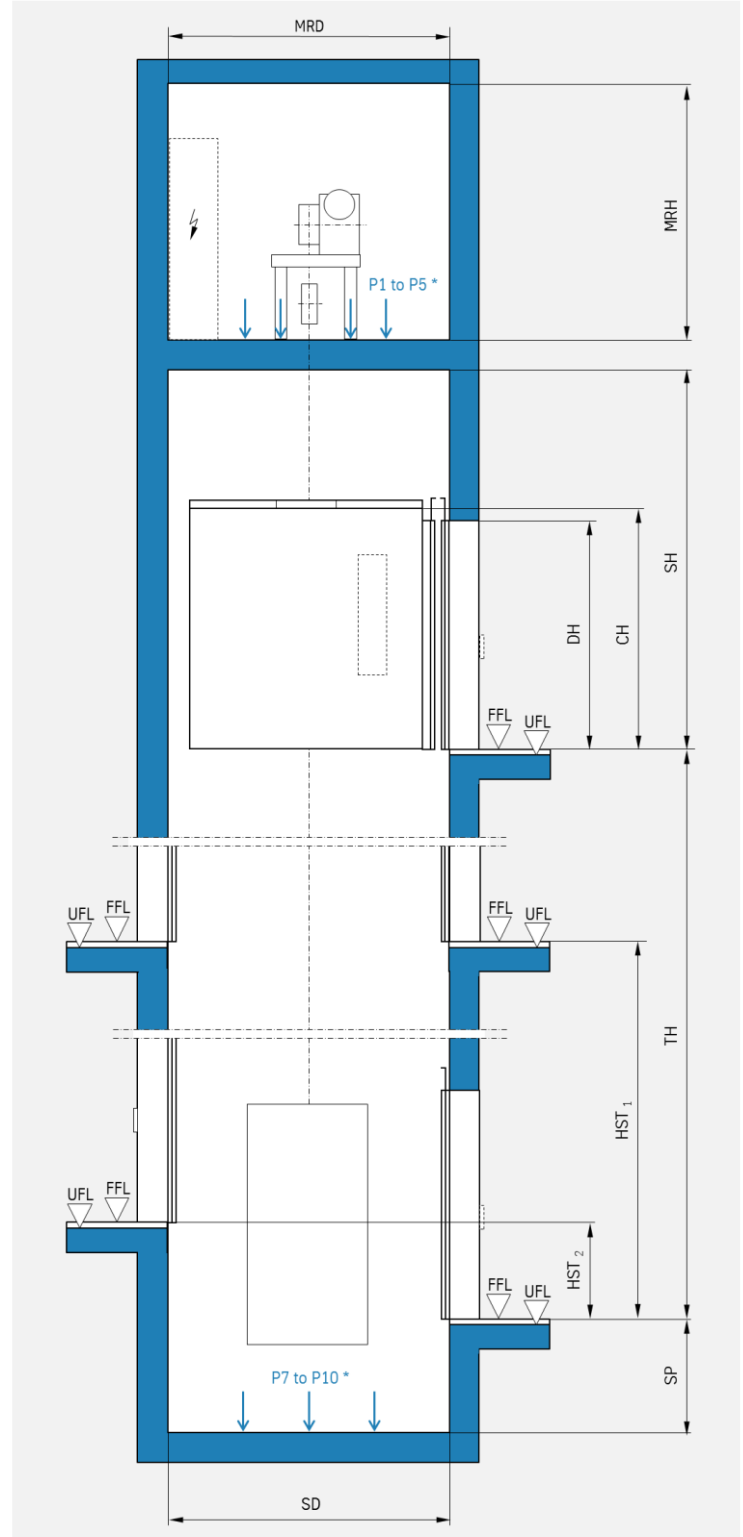
With 1 entrance



With open through entrance



Shaft vertical section



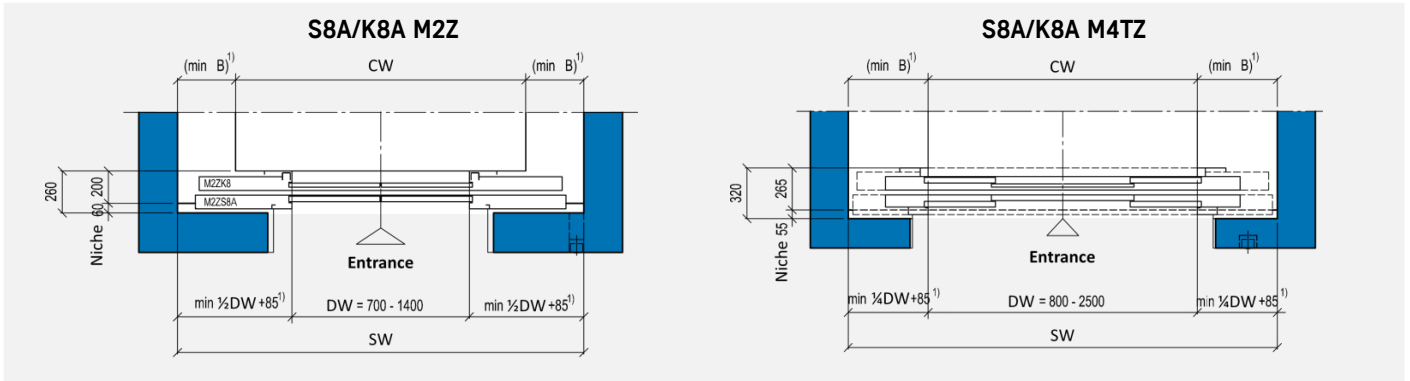
- Key:**
- DH - door height
  - DW - door width
  - CH - car height
  - CW - car width
  - CD - car depth
  - SW - shaft width
  - SD - shaft depth
  - MRH - machine room height
  - MRD - machine room depth
  - P1.. - Loads in the machine room and/or in the shaft pit
  - B1 - Distance shaft wall – elevator car (counterweight side)
  - B2 - Distance shaft wall – elevator car
  - TH - travel height
  - HST - floor-to-floor distance
  - SH - shaft headroom height
  - SP - shaft pit depth
  - FFL - upper edge finished floor
  - UFL - upper edge unfinished floor

\* The exact positions of the load points in the machine room and in the shaft pit are entered in the general arrangement drawing. Arrangement of the shaft layout is only an example and is also possible as mirror-inverted.

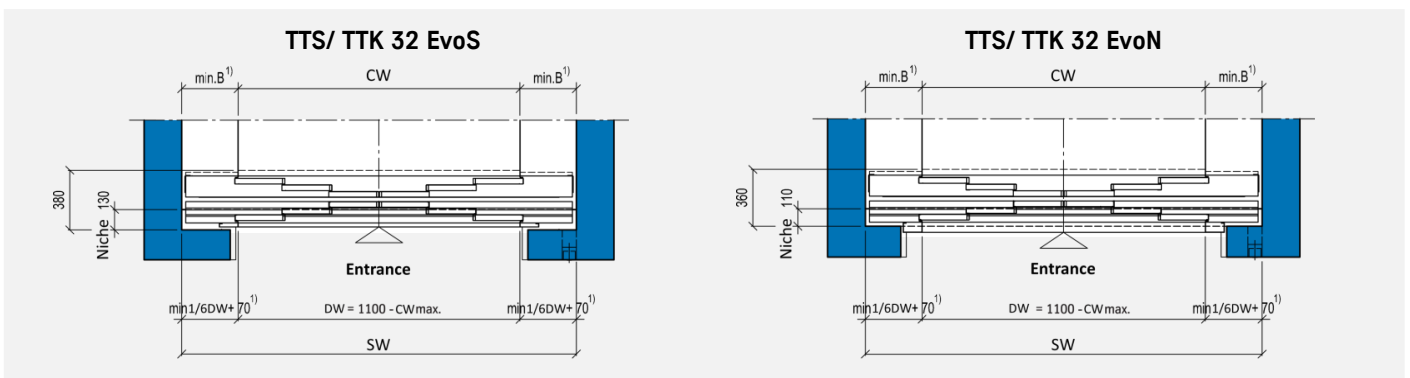
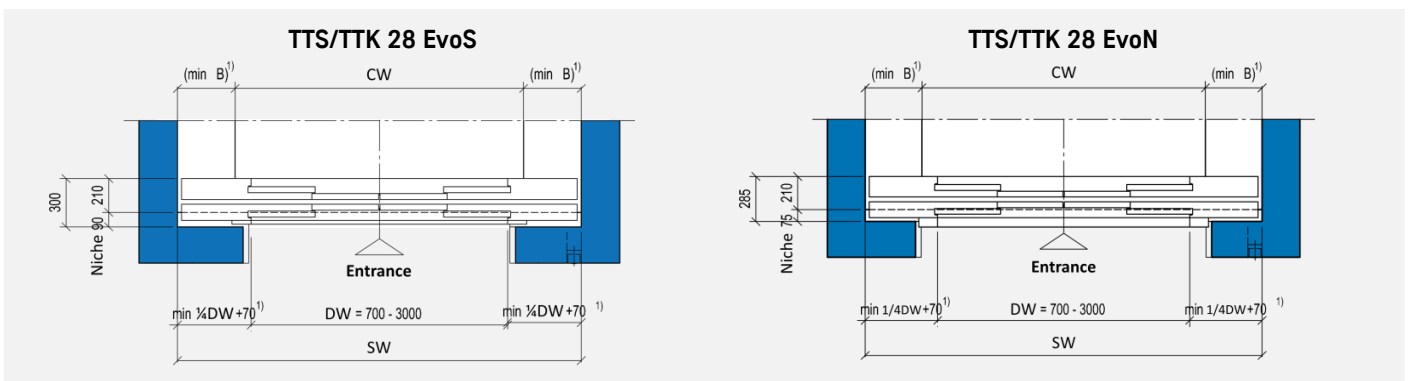
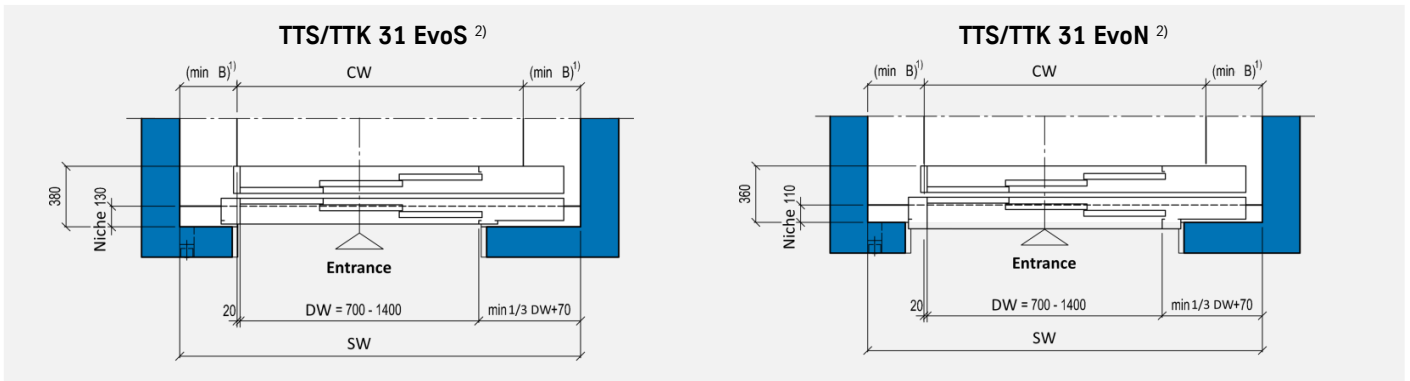
# Doors: planning data

## Fact Sheet freight elevators (hydraulic & traction)

### Landing and elevator car doors made by ThyssenKrupp



### Landing and elevator car doors made by Meiller



# Doors: planning data

## Fact Sheet freight elevators (hydraulic & traction)

### Determining the shaft depth

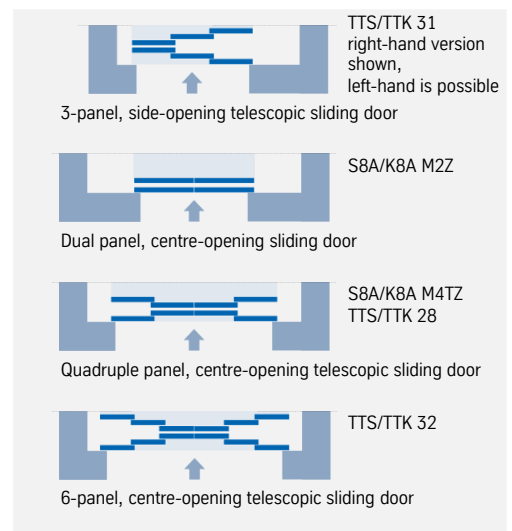
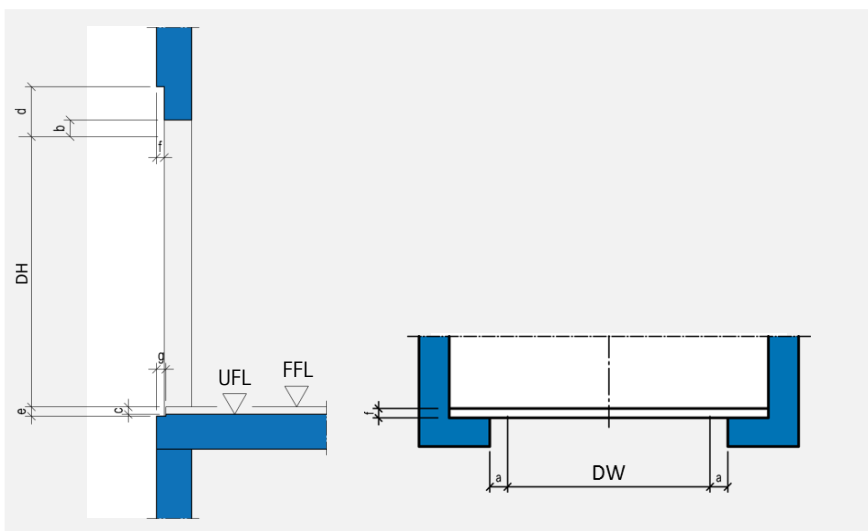
Manufacturer	Door type	Shaft depth without open through entrance [mm]	Shaft depth with open through entrance [mm]
ThyssenKrupp	S8A/K8A M2Z	$SD = CD + 260 + 85 - 60$ (recess*)	$SD = CD + 2 \times 260 - 2 \times 60$ (recess*)
ThyssenKrupp	S8A/K8A M4TZ	$SD = CD + 320 + 85 - 55$ (recess*)	$SD = CD + 2 \times 320 - 2 \times 55$ (recess*)
Meiller	TTS/TTK 31 EvoS	$SD = CD + 380 + 85 - 130$ (recess*)	$SD = CD + 2 \times 380 - 2 \times 130$ (recess*)
Meiller	TTS/TTK 31 EvoN	$SD = CD + 360 + 85 - 110$ (recess*)	$SD = CD + 2 \times 360 - 2 \times 110$ (recess*)
Meiller	TTS/TTK 28 EvoS	$SD = CD + 300 + 85 - 95$ (recess*)	$SD = CD + 2 \times 300 - 2 \times 95$ (recess*)
Meiller	TTS/TTK 28 EvoN	$SD = CD + 285 + 85 - 75$ (recess*)	$SD = CD + 2 \times 285 - 2 \times 75$ (recess*)
Meiller	TTS/TTK 32 EvoS	$SD = CD + 380 + 85 - 130$ (recess*)	$SD = CD + 2 \times 380 - 2 \times 130$ (recess*)
Meiller	TTS/TTK 32 EvoN	$SD = CD + 360 + 85 - 110$ (recess*)	$SD = CD + 2 \times 360 - 2 \times 110$ (recess*)

\* Only subtract depth for the recess(es) if planned with recess(es).

### Fire protection safety standards of the landing doors

Manufacturer	Door type	Fire protection	a	b	c	d	e	f	g
ThyssenKrupp	S8A/K8A M2Z	BS 476 [SA100]	70	120	≤ 90	300	90	60	60
ThyssenKrupp	S8A/K8A M2Z	EN 81-58 (E120, EW30/60) [SA104/105]	120	120	≤ 90	300	90	60	60
ThyssenKrupp	S8A/K8A M2Z	EN 81-58 (EI60) [SA106]	120	120	≤ 90	300	90	60	60
ThyssenKrupp	S8A/K8A M2Z	EN 81-58 (EI120) [SA109]	70	70	≤ 90	300	90	60	60
ThyssenKrupp	S8A/K8A M2Z	DIN 18091 [SA105]	120	120	≤ 90	300	90	60	60
ThyssenKrupp	S8A/K8A M2Z	[SA16]							140
ThyssenKrupp	S8A/K8A M4TZ	BS 476 [SA100]	70	120	≤ 90	300	90	55	55
ThyssenKrupp	S8A/K8A M4TZ	EN 81-58 (E120, EW30/60) [SA104/105]	120	120	≤ 90	300	90	55	55
ThyssenKrupp	S8A/K8A M4TZ	EN 81-58 (EI60) [SA106]	120	120	≤ 90	300	90	55	55
ThyssenKrupp	S8A/K8A M4TZ	EN 81-58 (EI120) [SA109]	70	70	≤ 90	300	90	55	55
ThyssenKrupp	S8A/K8A M4TZ	DIN 18091 [SA105]	120	120	≤ 90	300	90	55	55
ThyssenKrupp	S8A/K8A M4TZ	[SA16]							140
Meiller	TTS/TTK 31 EvoS	EN 81-58	50	50	≤ 90	500	300	130	130
Meiller	TTS/TTK 31 EvoN	DIN 18091	120	120	≤ 90	500	300	110	110
Meiller	TTS/TTK 28 EvoS	EN 81-58	50	50	≤ 90	500	300	90	90
Meiller	TTS/TTK 28 EvoN	DIN 18091	120	120	≤ 90	500	300	75	75
Meiller	TTS/TTK 32 EvoS	EN 81-58	50	50	≤ 90	500	300	130	130
Meiller	TTS/TTK 32 EvoN	DIN 18091	120	120	≤ 90	500	300	110	110

SA – special version; dimensions in mm. Key for the abbreviations used, see pages 8 and 10.



# References

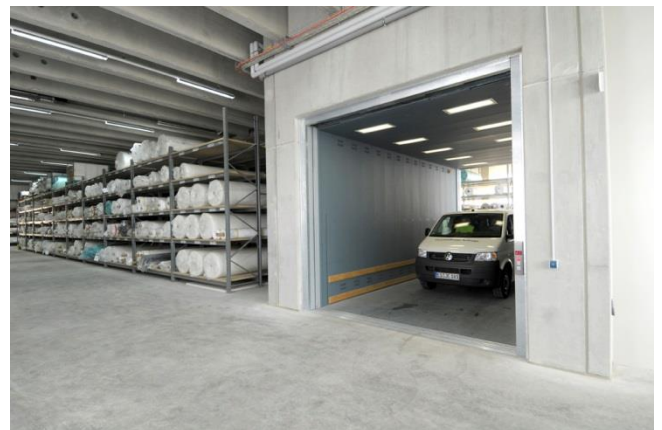
## Fact Sheet freight elevators (hydraulic & traction)

### Drechsler company, Selb

When heavy rolls of textiles have to be transported, the Drechsler company in Selb, Bavaria, has to rely on particularly strong "mules". ThyssenKrupp Aufzüge has installed one of these powerhouses in the form of a freight elevator with ten metric tonnes of rated load.

Over three floors, the elevator connects goods delivery, the warehouse as well as production, and is thus an important part of logistics in the production process. The 8,000-kilogram elevator car is driven by two hydraulic cylinders, each with a diameter of 700 millimetres.

The power comes from two units and is transferred indirect via ropes that lower and raise the elevator car. And this car has a near-miraculous amount of space: 3.50 metres wide, 3.50 metres high and 7.38 metres deep. That corresponds to a capacity of 133 persons in all.



# References

## Fact Sheet freight elevators (hydraulic & traction)

### Kaufland, Nürtingen

Four traction freight elevators as a group of 4, each with a rated load of 2600 kg and an internal car area of approx. 5 m<sup>2</sup>, ensure the smooth transport of customers at Kaufland in Nürtingen.

The elevators are driven by efficient and frequency-controlled TW160 gear drives that move the freight cars with a capacity of 34 persons per elevator car at a speed of 1.0 m/s over 3 floors.



### Other references

- Car park building, Munich Airport
- Gläserne Manufaktur, Dresden
- EADS, Hamburg
- Daimler, Stuttgart

# Options

## Fact Sheet freight elevators (hydraulic & traction)

### Elevator car equipment

Car elements	Freight elevators
<b>Car ceiling</b>	
Mouse Grey RAL 7005	●
Traffic White RAL 9016	○
Stainless steel grain 220	○
Krupp design stainless steel	○
Emergency trap in the car ceiling	○
<b>Elevator car lighting</b>	
Recessed fluorescent lamps (type C4), flush-fitted and recessed in the main ceiling, protection class IP20	●
Recessed fluorescent lamps (type C4), flush-fitted and recessed in the main ceiling, protection class IP54	○
Halogen spotlight ceiling (false ceiling, type CEI2), Traffic White RAL 9016 (for Q < 3000 kg)	○
Halogen spotlight ceiling (false ceiling, type CEI2), Stainless steel grain 220 (for Q < 3000 kg)	○
Indirect lighting (false ceiling, type CEI5), without shield, Traffic White RAL 9016 (for Q < 3000 kg)	○
Indirect lighting (false ceiling, type CEI5), without shield, Stainless steel grain 220 (for Q < 3000 kg)	○
Cassette ceiling (false ceiling, type CEI4), Traffic White RAL 9016 (for Q < 3000 kg)	○
Halogen spotlight ceiling (false ceiling, type CEI4), Stainless steel grain 220 (for Q < 3000 kg)	○
Ceiling with LED lighting equipment	○
<b>Wall version / car door portal</b>	
Mouse Grey RAL 7005	●
White Aluminium RAL 9006	○
Traffic White RAL 9016	○
Stainless steel grain 220	○
Krupp design stainless steel	○
<b>Hand-rail and bumper rail</b>	
Stainless steel hand-rail grain 220, diameter 40 mm	○
Bumper rail made of wood (beech), 200 x 19 mm, surrounding and/or with open through entrance on both side walls: 1 row / 2 rows / 3 rows	○ / ○ / ○
Aluminium profile bumper rail clad with stainless steel grain 220, 100 x 10 mm, surrounding and/or with open through entrance on both side walls: 1 row / 2 rows / 3 rows	○ / ○ / ○
<b>Flooring material</b>	
Steel bulb plate, primed (RAL 7005), 6 mm	●
Aluminium bulb plate Duett W2, 3 mm	○
Stainless steel bulb plate / V2A, 4 mm	○
Ice / rubber	○
Dove Grey / vinyl	○
Black Stone / rubber	○
Kayar Grey / rubber	○
Kayar Black / rubber	○
Without floor cover, lowered 25 mm for customer-fitted floor cover	○
<b>Skirting</b>	
Skirting 30 x 6 mm, aluminium	○
Skirting 30 x 6 mm, aluminium, clad with stainless steel grain 220	○
Skirting 50 x 5 mm, aluminium, clad with stainless steel grain 220	○
Skirting 100 x 10 mm, aluminium, clad with stainless steel grain 220	○
<b>Accessories</b>	
Ladder panel without door / with door	○ / ○

● in the standard, ○ optional, – not available. Please contact our sales consultants regarding the availability of options.

# Options

## Fact Sheet freight elevators (hydraulic & traction)

### Control functions

Control functions	Freight elevators
Single-button-collective-control (type 6512)	●
Two-button-collective-control (type 6513)	○
Group controller (type 6526)	○
Levelling with opening doors	○
Relevelling	○
Travelling cable (with interference suppression, for customer-provided telephone)	○
Peak traffic – basic function	○
Emergency power control (emergency power generator on construction site)	○
Trip counter (with and without reset)	○
Service hour meter (with and without reset)	○
Voltage-free contact for collective fault signal	○
Priority control with key switch in the elevator car control panel (to shut down landing calls)	○
Occupied device (80% rated load)	○
Fire recall control	○
Shutdown of control system and light	○
Door control "nudge" with acoustic signal	○
Earthquake control (sensor on construction site)	○
Alarm horn (98 dB, IP43)	○

● in the standard, ○ optional, – not available. Please contact our sales consultants regarding the availability of options.



# Notes





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