



Crane systems and rigid lifting guides

Smooth-running, innovative and ergonomic

The new smooth-running aluminum crane profiles guarantee easy handling of heavy loads up to 800 kg.

The smooth-running crane aluminum profiles combine a high load capacity with a very low dead weight, which means that all movement processes are reduced to a minimum of effort. This not only makes handling easier, but also reduces the physical strain on employees. This helps, for example, to counteract absences from work due to illness.

“Simply move more” - the new smooth-running profiles impressively put our slogan into practice. All rounded off by the weight-optimized carriages, which can be moved effortlessly thanks to special rollers.

Thanks to the innovative modular system, our crane systems can be easily adapted to a wide variety of requirements. Regardless of whether it is a slewing crane, rail or area system – the aluminum profiles can be cut to any length and extensively combined using a wide variety of connecting components. This creates crane systems that are uncompromisingly tailored to your needs and requirements. Even telescoping crane systems or systems with minimal construction heights for cramped spatial conditions can be implemented without great design effort.

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Crane systems	Linear and areal transport	with chain hoist or vacuum lifter	50.000x12.000mm	500 kg	91
Liftfix	rigid lifting guide system	High precision handling	20.000x12.000mm	500 kg	105
Jib cranes	Radial transport	with chain hoist or vacuum lifter	8,000 mm	500 kg	107
Electric chain hoists	Hoisting of loads	with ropes, straps or vacuum lifters	3,000 - 5,000 mm	1.250 kg	117
Installation	Fixing of columns				119

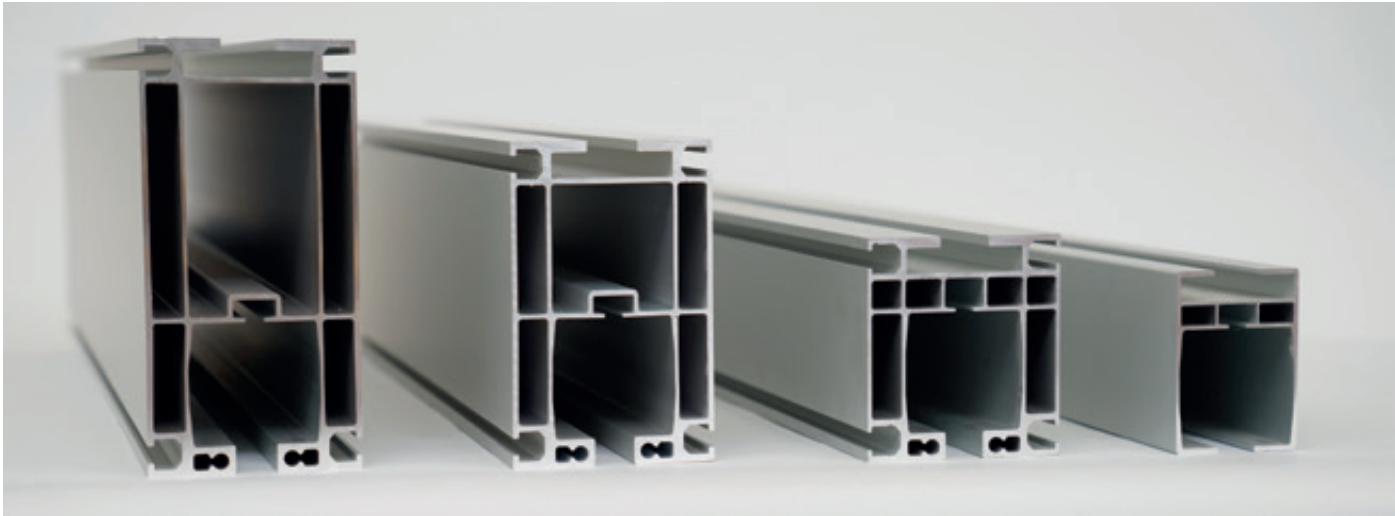
Crane systems

Aluminum smooth-running profile ALP

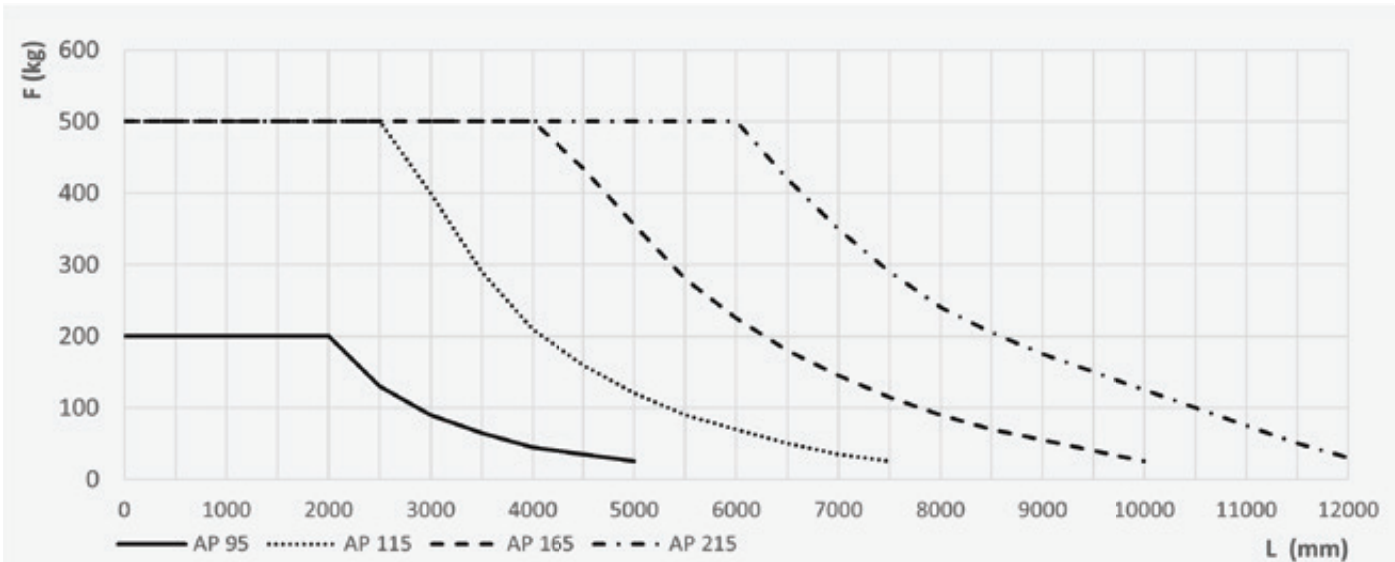
Setup and application

The new aluminum smooth-running profiles are specially designed for handling heavy loads. Due to the low dead weight of the profiles, the loads to be moved are reduced and the operator is significantly relieved. In addition, all carriages are equipped with high-quality, extremely smooth-running rollers that make starting much easier and thus reduce the effort required to move heavy loads to a minimum.

- Smooth-running crane track profile in hollow chamber construction
- Simple and ergonomic handling
- Low starting torques due to high-quality smooth-running rollers
- Modular building block system
- Individual adaptation to individual customer requirements
- Extensive range of accessories and customization options



Aluminum smooth-running profiles ALP-95 to ALP-215



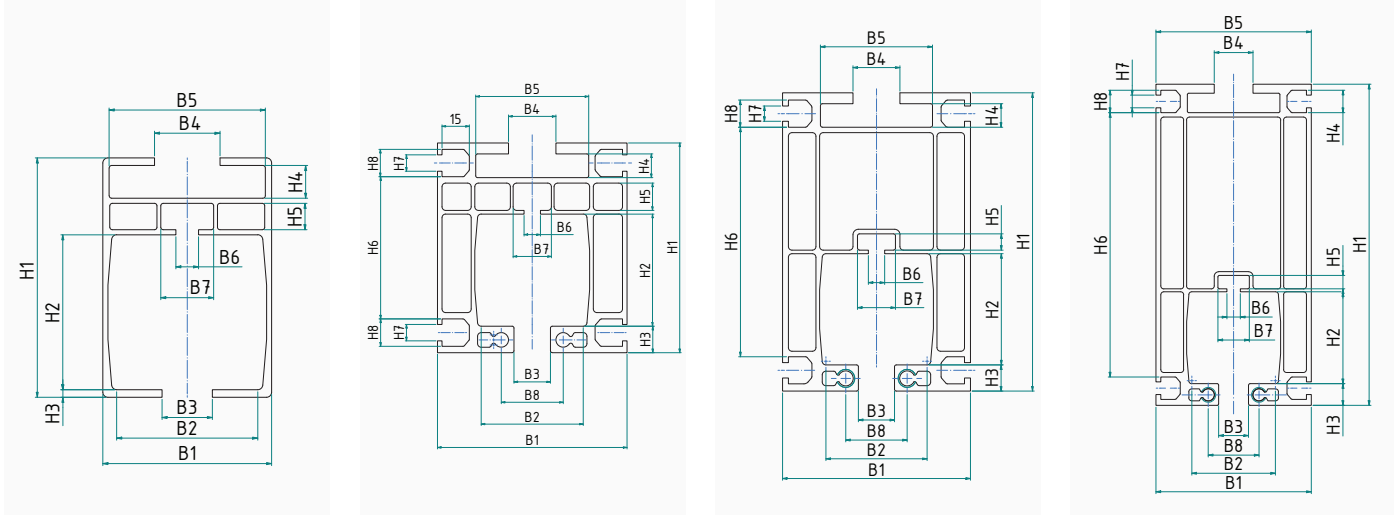
Load chart for aluminum smooth-running profiles ALP-95 to ALP-215

Crane systems

Technical specifications

Thanks to the optimized design of the hollow chamber geometry, the ratio between dead weight and load capacity has been maximized. The use of a special, high-quality aluminum alloy increases the application possibilities of the crane profiles and ensures that all crane systems are robust, reliable and, above all, durable.

- Four coordinated and combinable profile sizes
- Weight-optimized hollow chamber construction
- High-quality aluminum alloy (6063 T66), natural anodization
- Profile lengths up to 12,000 mm, can be extended with profile connectors
- Internal and external grooves for stops and brackets
- Extensive range of accessories and customization options



Type	I	W	Max. Load	Weight	B1	B2	B3	B4	B5	B6	B7	B8	H1	H2	H3	H4	H5	H6	H7	H8
	(cm4)	(cm3)	(kg)	(kg/m)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
AP-95	101	19	250	2.65	67	63	20	26	62	9			95	61.5	3	13	10.5			
AP-115	428	72	500	7.10	104	63	20	26	62	9	21	12	115	61.5	14.5	13	15	93	9	15
AP-165	1,115	130	1,000	9.20	104	63	20	26	62	9	21	10	165	61.5	14.5	13	9	143	9	15
AP-215	2,189	208	1,000	10.60	104	63	20	26	62	9	21	10	215	61.5	14.5	13	9	193	9	15

Type	2,000	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000	9,500	10,000	10,500	11,000	11,500	12,000
	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)	(kg)
AP-95	200	130	90	65	45	35	25														
AP-115	500	500	400	290	210	160	120	90	70	50	35	25									
AP-165	1,000	1,000	1,000	750	575	450	350	275	225	175	150	120	90	70	55	35	25				
AP-215	1,000	1,000	1,000	1,000	1,000	850	700	600	500	415	350	280	230	200	175	150	125	100	75	50	35

Max. load at different suspension distances (mm)

Crane systems

Basic components

Basic components

A large number of standardized components means that the crane systems can be adapted to a wide variety of requirements. Stable and robust connections enable almost infinitely long crane runways with which huge work areas can be covered. End and intermediate stops as well as buffer elements enable the use of several crane bridges for multi-girder systems.



End stop with buffer

The rubber buffers create sufficient damping when approaching the end positions of crane systems.



Intermediate stop with buffer

Intermediate stop that can be positioned as required to separate different work areas with a high degree of damping.



Profile connectors

Stable and robust connecting plates enable crane rails of any length and stabilize the connection. The connection must be close to a hanger.



Carriage FW-250/500 kg

With 4 rollers and from 250 kg with 2 additional guide rollers for maximum loads and low running resistance.



Gantry carriage FW-500 kg

With 4 - 6 rollers, two lateral guide rollers and rigid connecting plate. For minimum overall heights with high ease of movement at the same time.



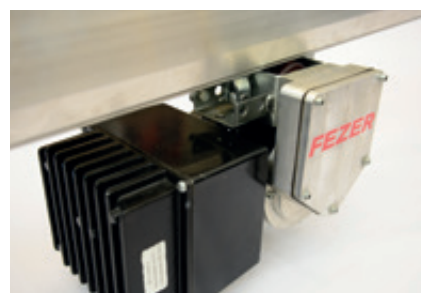
Hose and cable carriage

Lightweight and stable plastic trolley with holders for cables or hoses.



Electrical conductor rail

Wireless power supply for chain hoists and vacuum lifters. The power strip means that no cable or hose stations are required. This creates additional usable space.



Electric drive

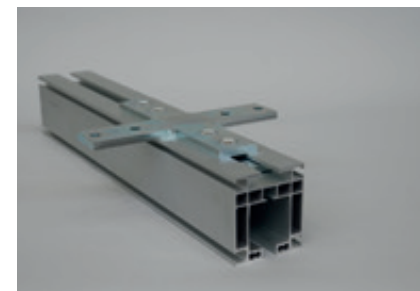
Robust and powerful friction wheel drive, suitable for all profile sizes. Two adjustable driving speeds ensure smooth starting and fast driving speeds.

Crane systems

Basic components

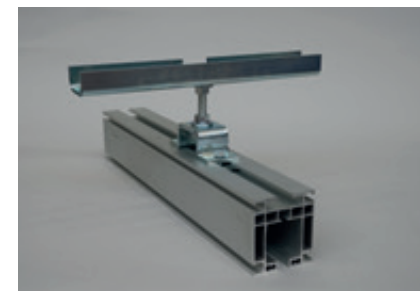
Hangers

A large number of suspension options are available for mounting the crane runways, which meet almost all requirements. Whether it is ceiling or wall mounting or clamping to girders or columns - the stable and robust mounting elements ensure safe and easy suspension of the crane elements. In addition, there is a wide range of options available to meet your individual requirements.



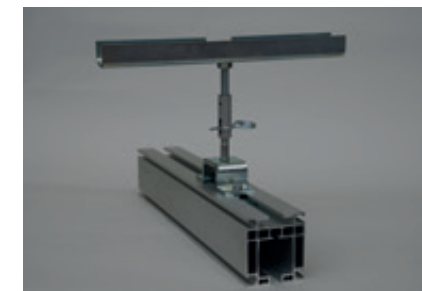
Direct suspension

For direct attachment to ceilings in the most confined spaces. Height differences cannot be compensated.



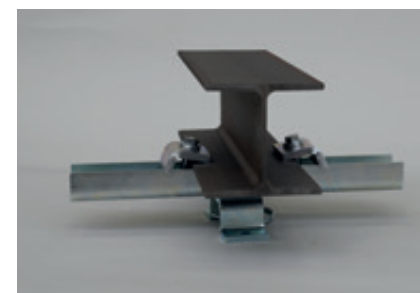
Rigid attachment

For attachment to ceilings or steel beams. Height compensation and upward force absorption possible. Available in different suspension lengths.



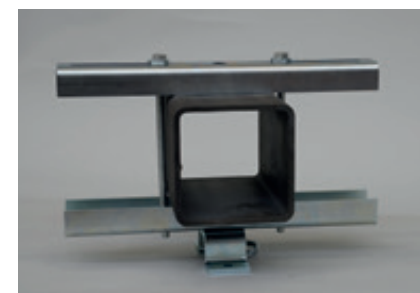
Swinging suspension

For attachment to ceilings or steel beams. Height adjustment and inclined suspension angles of up to 6° possible. Available in different suspension lengths.



Clamping to beams

In many cases, ceiling structures with T-beams are present, to which a connection can be made with simple clamp elements.



Clamping around beams

For fastening to beams and laminated beams that may not be drilled. There are screw connections of different lengths for different beam heights.



Wall/column fixing

Steel brackets for doweling or clipping are available for attachment to walls or columns.



Bearer duplication

In the case of very long gantry bridges, these can be reinforced by doubling the profile and thus moving higher loads



Bearer jacking

The crane girder can be jacked up if the height conditions are very tight.

Single and double rail cranes

Linear transport

Setup and application

Pure linear transport of loads in one axis. Depending on the required load, one or two rails are used. The single and double rail cranes can also be equipped with additional jib cranes, which means that areas of the workplace can also be covered.

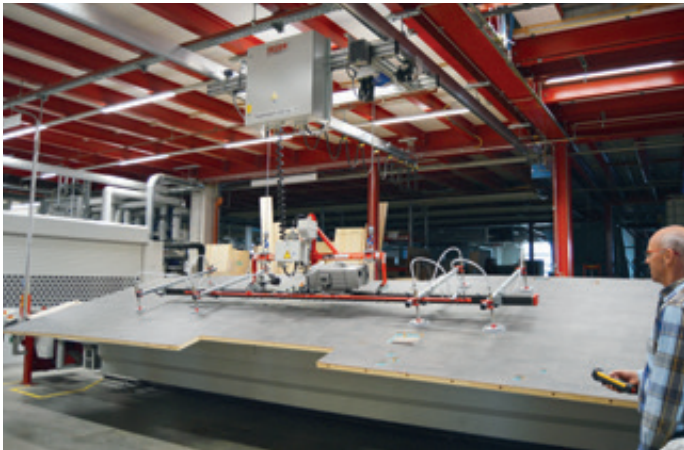
- Linear transport in one axis
- Load capacity up to 800 kg
- Low installation heights
- Any desired track length
- Expansion options with jib cranes



HBS-ES-125KG-12000
Single rail crane for moving panel material



HBS-ZS-100KG-22000-SK-4000
Double rail crane with slewing ring for large-scale use of space



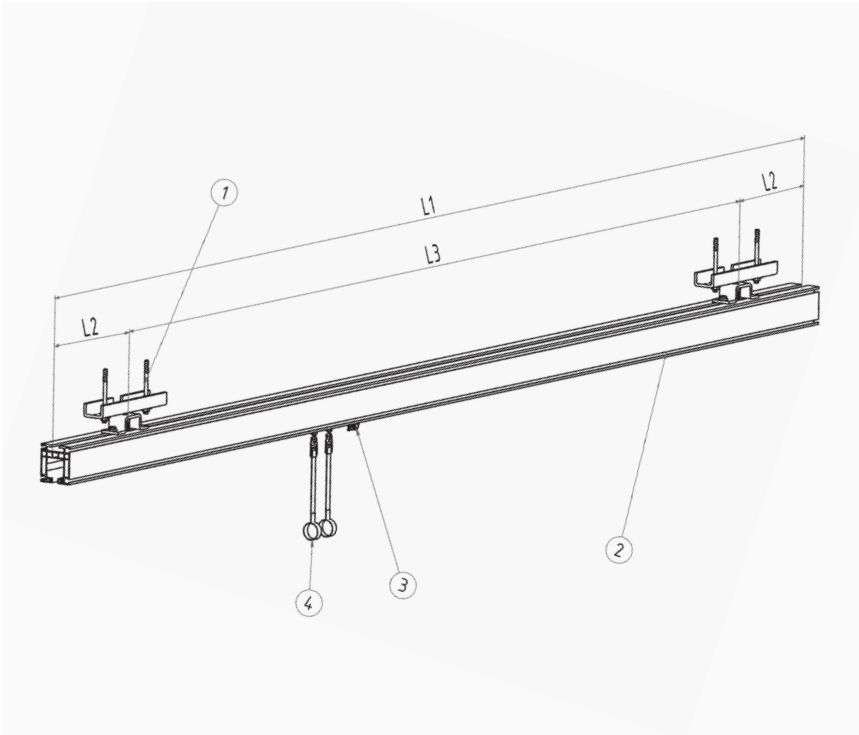
HBS-ZS-500KG-8000
Double rail crane with two chain hoists for handling floor components



HBS-ZS-500KG-6000
Double rail crane with Liffix for loading sheet metal into a laser cutting system

Single and double rail cranes

Technical specifications



- 1 Suspension
- 2 Crane rail
- 3 Traveling or gantry carriage
- 4 Hose or cable carriage

AP profile	Single rail crane											
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	
AP-95	150	90	45	25								
AP-115	500	400	210	120	70	35						
AP-165	500	500	500	350	225	150	90	55	25			
AP-215	500	500	500	500	500	350	230	175	125	75	35	

Max. load (kg) at different suspension distances (mm)

AP profile	Double rail crane											
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	
AP-95	300	180	90	50								
AP-115	500	500	420	240	140	70	30					
AP-165	500	500	500	500	450	300	180	110	50			
AP-215	500	500	500	500	500	500	460	350	250	150	70	

Max. load (kg) at different suspension distances (mm)

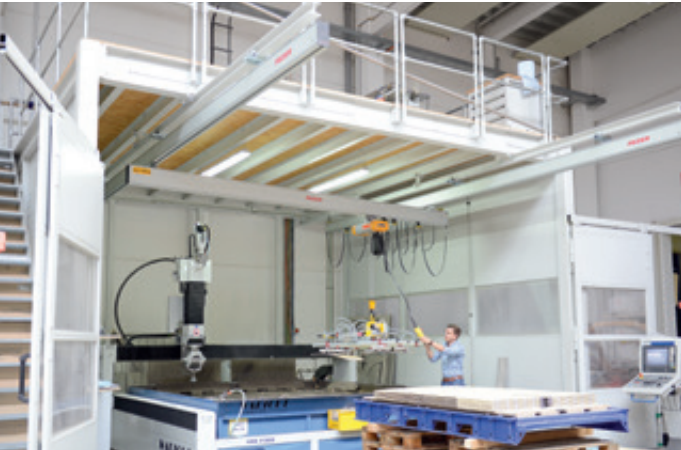
Single beam crane systems

Flat load transport

Setup and application

Single beam systems consist of a crane track of any length and a single gantry for load handling. This allows large work areas to be covered in two axes.

- Coverage of large working areas in two axes
- Load capacity up to 500 kg
- Optimum use of space with little exertion
- Low overall heights thanks to jack-up or down-side-up solutions



HBS-EB-250KG-8000x4000
Single beam crane system with steel substructure for the overhanging exit from a CNC machining room



HBS-EB-500KG-12000x6000
Single beam crane system with reinforced gantry for higher loads



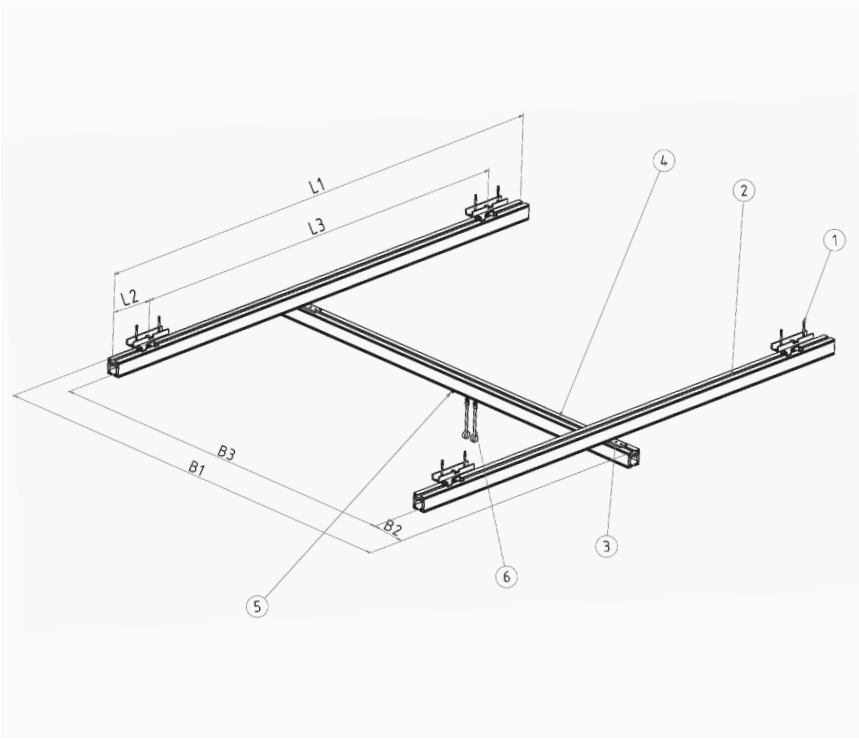
HBS-EB-80KG-16000x12000
Single beam crane system with 3 crane tracks for spanning a gantry length of up to 12,000 mm



HBS-EBA-60KG-8000x4000
Single beam crane system with jacking for low overall height with maximum lifting utilization

Single beam crane systems

Technical specifications



- 1 Suspension
- 2 Crane rail
- 3 Gantry carriage
- 4 Single beam gantry
- 5 Carriage
- 6 Hose or cable carriage

AP profile	Single bearer crane track										
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
AP-95	150	90	45	25							
AP-115	500	400	210	120	70	35					
AP-165	500	500	500	350	225	150	90	55	25		
AP-215	500	500	500	500	500	350	230	175	125	75	35

Max. load (kg) at different suspension distances (mm)

AP profile	Single beam crane gantry										
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
AP-95	200	90	45	25							
AP-115	500	400	210	120	70	35					
AP-165	500	500	500	350	225	150	90	55	25		
AP-215	500	500	500	500	500	350	230	175	125	75	35

Max. load (kg) with different track widths (mm)

Double beam crane systems

Flat load transport

Setup and application

Double beam systems consist of a crane track of any length and a double gantry for load handling. This means that very heavy loads can be transported across work space in two axes. Double beam systems are also suitable for connecting rigid lifting systems or manipulators.

- Coverage of large working areas in two axes
- Transport of the heaviest loads
- Optimum use of space with little exertion
- Connection of rigid lifting systems and manipulators



HBS-DB-500KG-8000x6000
Double beam crane with a span of 6,000 mm



HBS-DB-800KG-6000x8000
Two beam crane for spanning a gantry length of 8,000 mm



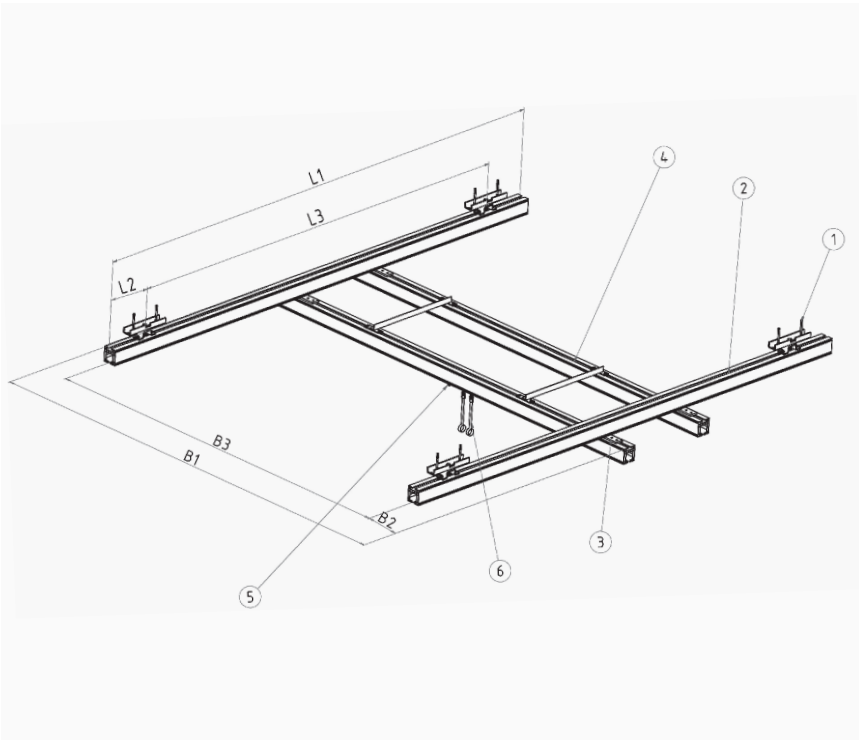
HBS-DB-320KG-8000-4000
Double beam crane with 2 chain hoists and automatic loading and unloading positions



HBS-DB-500KG-TEL-8000x6000
Double beam crane with Lififix rigid lifting system

Double beam crane systems

Technical specifications



- 1 Suspension
- 2 Crane rail
- 3 Gantry carriage
- 4 Double beam gantry
- 5 Carriage
- 6 Hose or cable carriage

AP profile	Double beam crane track										
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
AP-95	150	90	45	25							
AP-115	500	400	210	120	70	35					
AP-165	500	500	500	350	225	150	90	55	25		
AP-215	500	500	500	500	500	350	230	175	125	75	35

Max. load (kg) at different suspension distances (mm)

AP profile	Double beam crane gantry										
(mm)	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
AP-95	300	180	90	50							
AP-115	500	500	420	240	140	70	30				
AP-165	500	500	500	500	450	300	180	110	50		
AP-215	500	500	500	500	500	500	460	350	250	150	70

Max. load (kg) with different track widths (mm)

Telescopic crane systems

Flat load transport

Setup and application

Telescopic rails can be attached to single or double rails. The heavy-duty transport carriages absorb the moments that occur and ensure effortless extension and retraction. Retraction spring balancers can be used to aid in retraction.

- Coverage of work areas in one or two axes
- Driving around obstacles or pillars
- Optimum use of space with little exertion
- Reaching areas outside the working area



HBS-DB-500KG-8000x4000-TEL2000
Feeding of a CNC machining station via a telescopic double gantry



HBS-EB-80KG-12000x4000-TEL1500
Telescopic single gantries on a multi-girder crane system



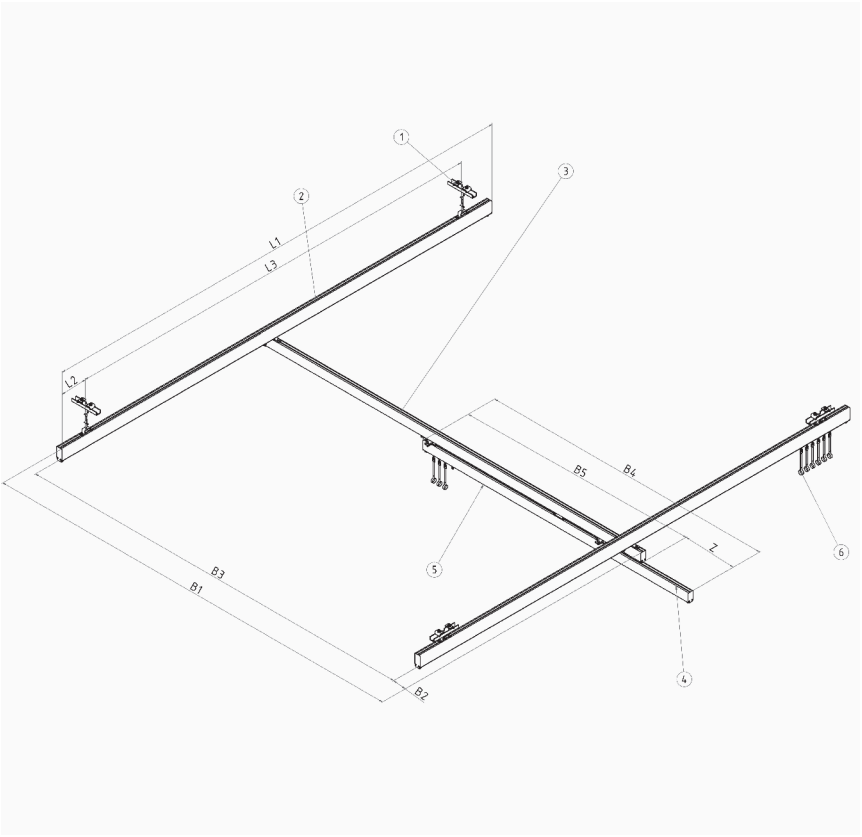
HBS-EB-80KG-10000x4000-TEL1500
Single beam crane system with telescoping single gantry



HBS-EB-60KG-6000x4000-TEL2500
Single beam crane system with telescoping single gantry for picking up sacks outside the working area

Telescopic crane systems

Technical specifications



- 1 Suspension
- 2 Crane rail
- 3 Gantry or telescope carriage
- 4 Telescope rail
- 5 Carriage
- 6 Hose or cable carriage

AP profile	Single beam telescope					
Extension of telescopic beam (mm)	500	1,000	1,500	2,000	2,500	3,000
Required length crane beam (mm)	1,000	2,000	2,500	3,000	4,000	5,000
AP-95	50	40	30			
AP-115	125	100	75	50	25	
AP-165	275	225	175	125	75	25
AP-215	325	275	225	175	125	75

AP profile	Double beam telescope					
Extension of telescopic beam (mm)	500	1,000	1,500	2,000	2,500	3,000
Required length crane beam (mm)	1,000	2,000	2,500	3,000	4,000	5,000
AP-95	100	80	60	40		
AP-115	250	500	150	100	50	25
AP-165	500	450	350	250	150	50
AP-215	500	500	450	350	250	150

Max. load (kg) with different telescopic lengths

Wall mounted travelling crane

Flat load transport

Setup and application

Wall mounted travelling cranes are used to cover large work areas where there are no supports or suspension options. The electrically powered carriages ensure that the cantilevered crane system can be moved quickly and easily, so that the work areas can be approached freely and the loads can be moved effortlessly.

- Comprehensive of large working areas in two axes
- No supports or suspensions required
- Several traveling cranes in one axis possible
- Electric drive with wireless control
- Optimum use of space with little exertion



Wall mounted travelling crane WLK-100KG-68.000x7.000 for chipboard, OSB and plasterboard up to 3.500x1.300 mm



Wall mounted travelling crane WLK-100KG-68.000x7.000 with electrically movable jib (7,000 mm)



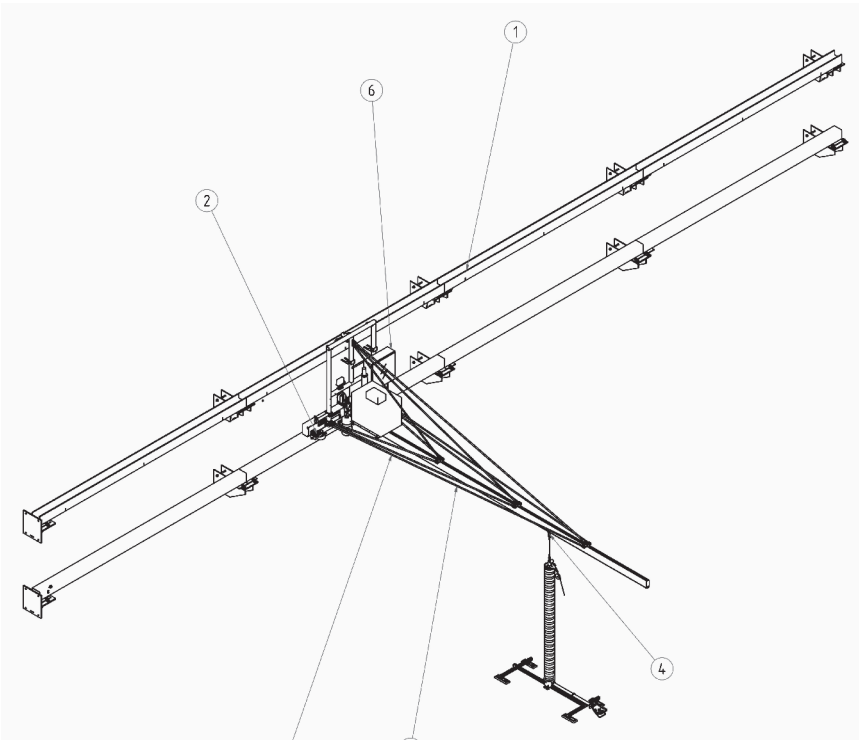
Wall mounted travelling crane WLK-80KG-36.000x7.500 for Fermacell, MDF and chipboards up to 3.000x1.250 mm



Wall mounted travelling crane WLK-120KG-44.000x7.000 with electrically movable jib (7,000 mm) with integrated collision prevention.

Wall mounted travelling crane

Technical specifications



- 1 Crane track with wall fixing
- 2 Carriage with friction wheel drive
- 3 Boom with stabilization bearers
- 4 Carriage
- 5 Hose or cable carriage
- 6 Installation area for accessories

AP profile (mm)	Boom						
	2,000	3,000	4,000	5,000	6,000	7,000	8,000
AP-115	250	250	210	120	70	35	
AP-165	250	250	250	250	225	150	90
AP-215	250	250	250	250	250	250	230

Max. load (kg) with different track widths (mm)



Wall mounted travelling crane blog post
You can find more photos and some more info about our wall-mounted travelling crane in our blog. Just follow the QR code!

Lifffix LF – rigid lift system

Linear and areal transport, commutation-free

Setup and application

In combination with the smooth-running aluminum rails, we offer a rigid lifting guide system with which you can place loads on and off in the exact position. Thanks to the telescoping aluminum profiles with their robust and precise sliding guides, not only can large strokes be achieved with a low overall height, but eccentric load moments can also be introduced, which makes it possible to load overbuilt processing machines. The stroke can be sensitively controlled using a chain hoist with two speeds.

- Telescopic lifting system with sliding guides
- Hoist drive via chain hoist with two speeds and adjustable end position cut-offs
- Friction wheel drives for electrical movement in the X and Y directions
- Flangeable gripping devices with vacuum or mechanical clamping elements
- Ergonomic manipulation handles with all necessary control buttons



Lifffix LF-DT-250KG
Rigid lifting system with double telescope for handling steel plates



Lifffix LF-ET-125KG
Rigid lifting system with single telescope for pipe handling



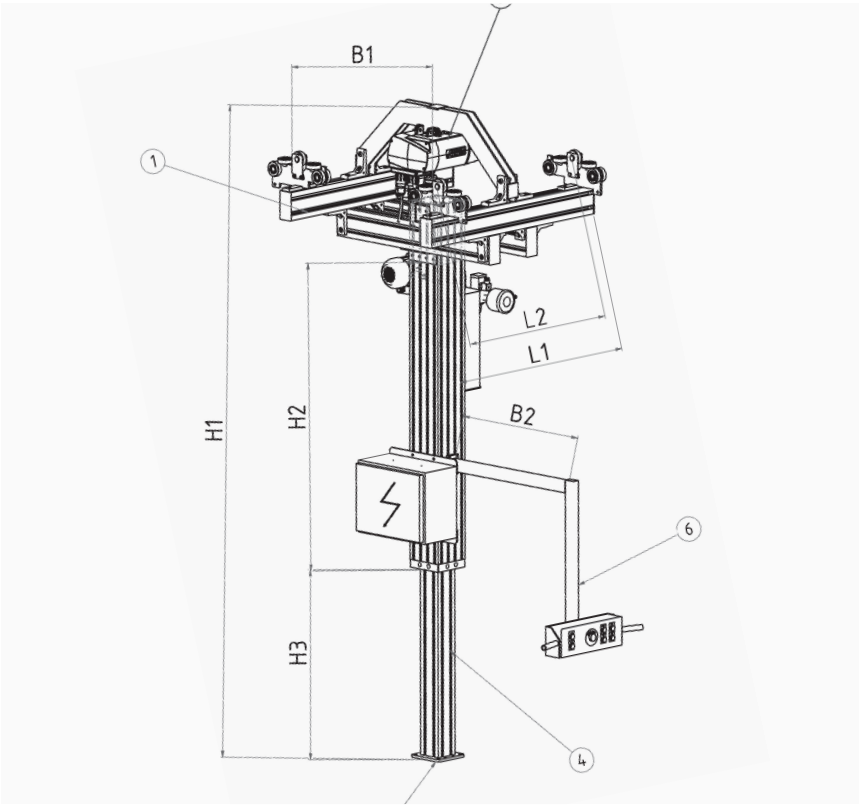
Lifffix LF-ET-50KG
Rigid lifting system with single telescope and load bearing for seat frames



Lifffix LF-ET-80KG
Rigid double-telescopic lifting system for handling cover elements in final assembly

Lifffix LF – rigid lift system

Technical specifications



- 1 Driving frame with gantry carriages
- 2 Chain hoist
- 3 Jib crane (optional)
- 4 Single or double telescope Sliding bearing
- 5 Flange plate for gripper units
- 6 Ergonomic control handle with push button for electrical movements and emergency stop

Load (kg)	Type	Max. Moment (Nm)	Lifting speed (m/min)	Max. Lift Z (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	B1 (mm)	B2 (mm)	Own weight (kg)
125	LF-100-2	250	2/8	1,500	2,750	2,000	1,500	620	800	560	800	100/-125
	LF-160-2	500	2/8	2,000	3,250	2,500	2,000	620	800	560	800	130/-155
	LF-160-3	125	2/8	2,500	2,500	1,750	2,500	620	800	560	800	150/-175
250	LF-100-2	250	2/8	1,500	2,750	2,000	1,500	620	800	560	800	105/-130
	LF-160-2	500	2/8	2,000	3,250	2,500	2,000	620	800	560	800	135/-160
	LF-160-3	125	2/8	2,500	2,500	1,750	2,500	620	800	560	800	155/-180
320	LF-100-2	250	2/8	1,500	2,750	2,000	1,500	620	800	560	800	110/-135
	LF-160-2	500	2/8	2,000	3,250	2,500	2,000	620	800	560	800	140/-165
	LF-160-3	125	2/8	2,500	2,500	1,750	2,500	620	800	560	800	160/-185
500	LF-100-2	250	2/8	1,500	2,750	2,000	1,500	620	800	560	800	115/-140
	LF-160-2	500	2/8	2,000	3,250	2,500	2,000	620	800	560	800	145/-170
	LF-160-3	125	2/8	2,500	2,500	1,750	2,500	620	800	560	800	165/-190