

Industrial price list 02-23

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Loading technology

Hörmann international sales companies and sales partners



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Hörmann international sales companies

International sales partners

Hörmann international sales companies

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For more information on our sales companies and sales partners, visit www.hoermann.com.

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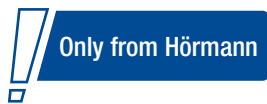
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We think green.

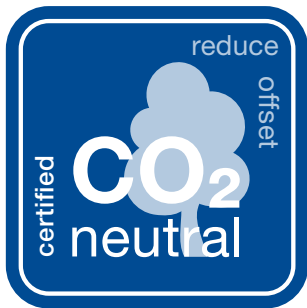
Hörmann leads by example: We use green electricity to cover 100% of our electricity requirements at all European production sites. Together with an intelligent and certified energy management system, the use of recycled paper, the saving and upcycling of packaging and the recycling of reusable materials, this saves over 75000 tons of CO₂ each year. Additionally, we offset the remaining unavoidable emissions generated during our production of products for residential construction by supporting renewable energy, forest protection and reforestation projects in cooperation with ClimatePartner.



You can find all information and many videos at www.hormann.co.uk/company/environment



WE ACT GREEN. Our climate protection strategy is based on the annual calculation of the CO₂ balance at our sites, which includes the products manufactured there. And we have been reducing our emissions wherever possible for years. This means we are taking various steps, big and small, to reduce our carbon footprint. We offset the remaining CO₂ emissions through climate protection projects. This makes us the first and only construction component manufacturer to offer CO₂-neutral garage doors, entrance doors and residential internal doors.



As standard

For all garage doors, operators, entrance doors, residential internal doors, steel frames, steel doors for residential construction as well as storage space systems



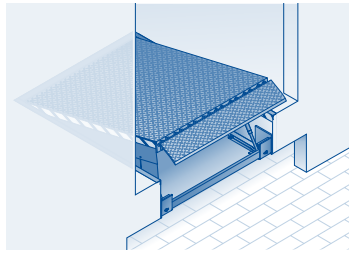
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CO₂
measure
reduce
contribute

Hinged lip dock leveller HLS

Self-supporting steel articulated design in accordance with EN 1398.



HLS

Rated load acc. to EN 1398 as standard 60 kN

The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for electric lift trucks with tandem rollers: 50 kN, for reach lift trucks: 30 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range

Construction

Torsionally flexible dock leveller construction with 2-cylinder technology, platform and hinged lip made of moulded anti-slip steel, platform 6/8 mm thick (S 235), hinged lip 12 / 14 mm thick (S 355), 405 mm long, with gradient, with open, self-cleaning lip hinge.

Attention: The dimensions are not fitting dimensions. Note the fitting drawings for pit dimensions and ordering!

Ordering length	Dock leveller exterior length	Installation height	Transport height	Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
3000	2985	650	385	6527	6827	6913	1188	1297	1409
2750	2735	650	385	6476	6568	6715	1122	1223	1329
2500	2485	650	385	6188	6414	6539	1052	1149	1253
2000	1985	650	385	6062	6227	6388	915	1010	1093
Ordering width				→ 2000	2100	2250	2000	2100	2250
Dock leveller exterior width				→ 2020	2120	2270	2020	2120	2270

Special sizes (Please note the extended delivery times!)

Deviating width, special widths from 1750 mm in 50 mm grid (1750, 1800, etc.) up to 2250 mm maximum

€

On request

Fitting

Fitting by welding

Accessories for further fitting variants (e.g. for fitting by casting) are optionally available.

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black).

Acoustic insulation



Identical to anti-slip coating, but approx. 3–4 mm thick.

Operator

Electro-hydraulic operator, motor power 0.75 kW as standard, connecting voltage 400 V / 50 Hz (for other frequencies, see 18), protection category IP 54. Connection cable minimum 7.5 m long as standard.

Control 420 S (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push button integrated in housing for actuation with press-and-hold actuation and "Auto" button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

Hinged lip variants		€
	Type R , straight (up to 2000 mm wide as standard with no surcharge)	165
	Type S , chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165
Type SG		Not available

Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on platform and lip made of running plate			Approx. 3–4 mm thick, on platform and lip made of running plate			Required for galvanized version No. of dock levellers		
							1	2–10	> 10
3000	1529	1591	1708	2174	2269	2432	685	417	384
2750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

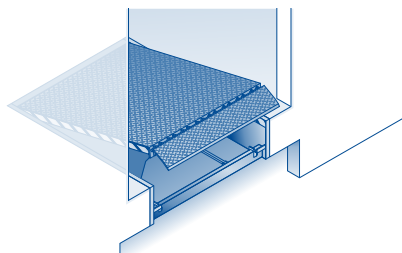
1) Pre-treatment required for galvanized version.

Special equipment					
Ordering length	Thermal insulation At least 30 mm thick Gap sealing recommended!			Gap sealing	RAL to choose
	3000	533	605	745	236
2750	488	554	678	228	
2500	441	500	617	222	
2000	348	397	489	222	
Ordering width	2000	2100	2250		

Optional extras and special versions	See page 18
Controls and control accessories	See from page 20

Hinged lip dock leveller HLS 2

Self-supporting steel articulated design
in accordance with EN 1398.



HLS 2

Rated load acc. to EN 1398 as standard 60 kN

The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for electric lift trucks with tandem rollers: 50 kN, for reach lift trucks: 30 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range

Construction

Torsionally flexible dock leveller construction with 2-cylinder technology, platform and hinged lip made of moulded anti-slip steel, platform 6/8 mm thick (S 235), hinged lip 12/14 mm thick (S 355), 405 mm long, with gradient, with open, self-cleaning lip hinge.

Fitting

Pit model P

Fitting by welding. Equipped with 30 mm thick flat steel on rear. From 3500 mm length and with higher rated loads, support profiles are required on site.

Attention: The dimensions are not fitting dimensions. Note the fitting drawings for pit dimensions and ordering!

Ordering length	Exterior length	Installation height ¹⁾	Pit model P ²⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
5000	5000	745	15334	15766	16186	3090	3336	3557
4500	4500	745	11313	11731	12033	2296	2493	2635
4000	4000	745	10838	11194	11481	2095	2272	2395
3500	3500	745	9515	9786	10051	1890	2045	2164
3000	3000	645	7654	7956	8144	1566	1673	1777
2750	2750	645	7622	7706	7948	1478	1584	1687
2500	2500	595	7293	7493	7736	1389	1484	1585
2000	2000	595	6800	6960	7217	1204	1297	1389
Ordering width			2000	2100	2250	2000	2100	2250
Dock leveller exterior width			2020	2120	2270			

1) For fitting in pedestal: Note the height of the tailboard slot, see page 24.

2) **If renovating, indicate the available pit dimensions. Adjustments may be necessary (surcharge).**

Attention: In the size range shaded in blue, pit model P requires on-site support at the cylinder support points!

Ordering length	Exterior length	Installation height	Frame model FR ³⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
5000	5070	745	16557	16988	17384	3353	3583	3772
4500	4570	745	12170	12587	12875	2487	2678	2791
4000	4070	745	12049	12408	12670	2260	2448	2542
3500	3570	745	9899	10171	10418	2037	2206	2294
3000	3070	645	8011	8317	8486	1662	1772	1857
2750	2820	645	7780	7864	8094	1567	1671	1753
2500	2570	595	7544	7769	7980	1448	1547	1626
2000	2070	595	7142	7302	7545	1258	1361	1422
Ordering width			2000	2100	2250	2000	2100	2250
Dock leveller exterior width			2160	2260	2410			

3) **Attention: Indicate casting height!**

Standard casting height FR: 100 mm, max. 250 mm

Special sizes (note the longer delivery time!)

Other length, width, working range or fitting height

On request

Fitting variants

Frame model F: Hang in preassembled frame and weld all-round. Version identical to model FR, but without anchors. Preassembled frame provided on-site or must be ordered separately, see page 18

Same price as frame model FR

-

Box model B: Cast in during ramp construction using on-site formwork and base construction. Version identical to model FR, but frame is closed on 3 sides, with additional reinforcement profiles on the sides. Delivered with protective film.

Surcharge on frame model FR

346

Frame model FR

Fitting by casting.

Laterally closed base frame with 3-sided all-round edge bracket, fitted with ventilation holes as well as anchors for setting in concrete, with adjustment angles to screw for adjusting to the casting height. Suitable for in-line fitting with prefabricated concrete components, as long as the casting height does not exceed 250 mm. Use of protective film (optional) recommended.

Further fitting variants (e.g. model F, B) optionally available.

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black).

Acoustic insulation




Identical to anti-slip coating, but approx. 3–4 mm thick.

Operator

Electro-hydraulic operator, motor power 0.75 kW with a rated load of 60 kN for lengths up to 3.5 m, increases with higher rated loads and longer dock levellers, depending on requirements. Connecting voltage 400 V / 50 Hz (for other frequencies, see page 18), protection category IP 54. Connection cable minimum 7.5 m long as standard.

Control 420 S (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push button integrated in housing for actuation with press-and-hold actuation and “Auto” button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

Hinged lip variants		€
	Type R , straight (up to 2000 mm wide as standard with no surcharge)	165
	Type S , chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165
	Type SG , segmented (straight hinged lip shape), segment width approx. 145 mm – Only for dock levellers with a rated load of up to 60 kN! Segment load max. 600 kg! –	767
Hinged lip type R or S, 500 mm long		Ordering width 2000 mm
		Ordering width 2100 / 2250 mm
		1089
		1370

Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on platform and lip made of running plate			Approx. 3–4 mm thick, on platform and lip made of running plate			Required for galvanized version No. of dock levellers		
							1	2–10	> 10
5000	2448	2560	2743	3493	3651	3914	770	502	470
4500	2216	2322	2486	3162	3305	3541	770	502	470
4000	1988	2075	2222	2830	2960	3173	770	502	470
3500	1757	1836	1967	2502	2615	2804	685	417	384
3000	1529	1591	1708	2174	2269	2432	685	417	384
2750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

1) Pre-treatment required for galvanized version.

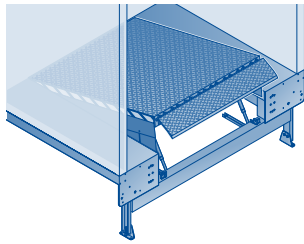
Special equipment							Note the possible longer delivery time!		
Ordering length	Thermal insulation At least 30 mm thick Gap sealing recommended!			Higher rated load up to 90 kN ²⁾		Gap sealing	RAL to choose		
				Coated in RAL 9017	Galvanized				
				Surcharge on version 60 kN in RAL 9017	Surcharge on version 60 kN galvanized				
5000	898	1019	1255	7268	8235	296	Surface finish coating in RAL to choose See page 19.		
4500	803	913	1128	5977	6770	293			
4000	715	809	1002	4743	5459	265			
3500	623	709	874	2699	2897	248			
3000	533	605	745	2212	2487	236			
2750	488	554	678	2144	2393	228			
2500	441	500	617	2064	2294	222			
2000	348	397	489	1877	2059	222			
Ordering width	2000	2100	2250						

2) Hinged lip 402 mm long, 15/17 mm thick, platform 8/10 mm thick. Pit models P require on-site support at the cylinder support points!

Optional extras and special versions		See page 18
Controls and control accessories		See from page 20

Loading platform HRS

Loading platform with hydraulic dock leveller in accordance with EN 1398 and side elements that can be fitted in front of the hall opening.



HRS

Rated load acc. to EN 1398 as standard 60 kN

Side element loading capacity of up to 1000 kg/m² (not suitable for driving over). The following load limitation is recommended in order to avoid lane grooves with hard (PU / Vulkollan) wheels: for electric lift trucks with tandem rollers: 50 kN, for reach lift trucks: 30 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range



Construction

Steel construction with adjustable galvanized pedestal feet. Torsionally flexible dock leveller construction with 2-cylinder technology, side elements, platform and hinged lip made of moulded, anti-slip steel, side elements and platform 6/8 mm thick (S 235), hinged lip 12/14 mm thick (S 355), 405 mm long, with gradient, with open, self-cleaning lip hinge.

Ordering length	Exterior length / depth	Ramp height ¹⁾	Platform and lip coated in RAL 9017, galvanized side elements and front beam			Surcharge Galvanized platform and lip		
3000	2985	875 ²⁾ – 1360	10600	10898	10987	1188	1297	1409
2750	2735	875 ²⁾ – 1360	10453	10550	10694	1122	1223	1329
2500	2485	875 ²⁾ – 1360	10063	10292	10416	1052	1149	1253
2000	1985	875 ²⁾ – 1360	9749	9915	10075	915	1010	1093
Ordering width			2000	2100	2250	2000	2100	2250
Total width of loading platform			3500 mm					

- 1) Ramp height measured from the top edge of the platform (not top edge of the running plate) to the bottom edge of the base on the front side. Note the required slope of 1% (for drainage) from the outer wall of the building! Tailboard slot = ramp height – 690 mm
2) For angled arrangement min. 977 mm

RAL to choose	See page 19
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Hinged lip	€
 Type R , straight, standard up to 2000 mm width	165
 Type S , chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165
Type SG	Not available

Coupling element for coupling HRS loading platforms					
Ordering length	Exterior length / depth	Width			
		50 up to and incl. 70	Over 70 up to and including 100	Over 100 up to and including 300	Over 300 up to and including 500
3000	2985	196	392	1252	1664
2750	2735	188	376	1212	1604
2500	2485	180	364	1168	1540
2000	1985	168	332	1084	1412
Distance centre – centre of the dock leveller		3500 up to and incl. 3570	Over 3570 up to and including 3600	Over 3600 up to and including 3800	Over 3800 up to and including 4000

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request. Side elements and front beam galvanized as standard.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Hole pattern

Side elements pre-drilled for fitting of buffers, docking assistance DAP, CPB support brackets for inflatable dock seal, Light Guide LG, as well as fitting of the carrier's lorry security belts.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black), not available on side elements for technical reasons.

Acoustic insulation

Identical to anti-slip coating, but approx. 3–4 mm thick on the platform.

Not available on side elements for technical reasons.

Operator

Electro-hydraulic operator, motor power 0.75 kW as standard, connecting voltage 400 V / 50 Hz (for other frequencies, see 18), protection category IP 54. Connection cable minimum 7.5 m long as standard.

Control 420 S (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push button integrated in housing for actuation with press-and-hold actuation and "Auto" button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on running plate of dock leveller platform and lip			Approx. 3–4 mm thick, on running plate of dock leveller platform and lip			Required for galvanized version No. of dock levellers		
							1	2–10	> 10
3000	1529	1591	1708	2174	2269	2432	685	417	384
3750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

1) Pre-treatment required for galvanized version. Not available for side elements and pedestal add-ons for angled arrangement.

Special equipment			Note the possible longer delivery time!	
Ordering length	Thermal insulation At least 30 mm thick, under the dock leveller and side elements, gap sealing recommended!	Gap sealing	RAL to choose	
3000	850	236	Surface coating in RAL to choose, see page 19.	
2750	773	228		
2500	704	222		
2000	555	222		

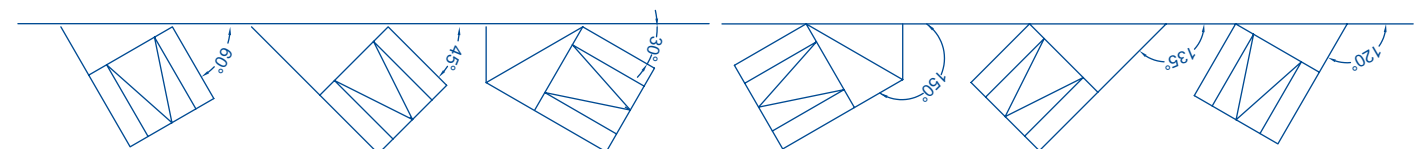
Pedestal add-ons for angled arrangement (include drawing with order!)

Attention:

When ordering, make sure that a 7.5 m connection cable is long enough. Otherwise order a 12 m cable separately!

Anti-slip coating or acoustic insulation for pedestal add-ons not possible for technical reasons.

	Galvanized	Thermal insulation Min. 30 mm thick, below pedestal add-ons
30 / 150° arrangement	9519	678
45 / 135° arrangement	6892	587
60 / 120° arrangement	5083	343

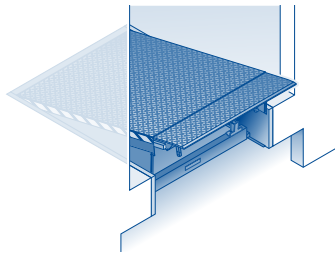


Other versions are available on request.

Optional extras and special versions	See page 18
Controls and control accessories	See from page 20

Telescopic lip dock leveller HTL 2

Self-supporting steel articulated design in accordance with EN 1398.



HTL 2

Rated load acc. to EN 1398 as standard 60 kN

The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for reach lift trucks: 40 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range.

Construction

Torsionally flexible dock leveller construction with 2-cylinder technology, platform made of moulded anti-slip steel, 8 / 10 mm thick (S 235), available with telescopic lip made of moulded anti-slip steel, 12 / 14 mm thick (S 355), 500 mm long, optionally 1000 mm (rated load 60 kN) or 1200 mm (rated load 50 kN), with gradient.

Attention: The dimensions are not fitting dimensions. Note the fitting drawings for pit dimensions and ordering!

Ordering length	Exterior length	Installation height ¹⁾	Pit model P²⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
5000	5000	745	18152	18418	18978	3978	4136	4357
4500	4500	745	13423	13712	14096	2845	2953	3107
4000	4000	745	12472	12708	13065	2581	2689	2829
3500	3500	745	11511	11730	12062	2319	2412	2550
3000	3000	645	9496	9765	10094	1929	2017	2143
2750	2750	645	9400	9481	9766	1815	1899	2020
2500	2500	595	8912	9167	9444	1690	1775	1893
2000	2000	595	8504	8699	8951	1466	1541	1648
Ordering width			2000	2100	2250	2000	2100	2250
Dock leveller exterior width			2020	2120	2270			

1) For fitting in pedestal: Note the height of the tailboard slot, see page 24.

2) **If renovating, indicate the available pit dimensions. Adjustments may be necessary (surcharge).**

Attention: In the size range shaded in blue, pit model P requires on-site support at the cylinder support points!

Ordering length	Exterior length	Installation height	Frame model FR³⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
5000	5070	745	19144	19414	19962	4218	4375	4568
4500	4570	745	14200	14497	14872	3038	3140	3277
4000	4070	745	13611	13851	14200	2753	2851	2978
3500	3570	745	11704	11930	12255	2478	2573	2690
3000	3070	645	9728	10003	10335	2032	2123	2228
2750	2820	645	9512	9596	9881	1913	2004	2100
2500	2570	595	9143	9403	9683	1772	1851	1951
2000	2070	595	8787	8993	9242	1534	1612	1703
Ordering width			2000	2100	2250	2000	2100	2250
Dock leveller exterior width			2160	2260	2410			

3) **Attention: Indicate casting height!**

Standard casting height FR: 100 mm, max. 250 mm

Special sizes (note the longer delivery time!)		€
Other length, width, working range or fitting height		On request
Fitting variants		€
Frame model F: Hang in preassembled frame and weld all-round. Version identical to model FR, but without anchors. Preassembled frame provided on-site or must be ordered separately, see page 18		Same price as frame model FR -
Box model B: Cast in during ramp construction using on-site formwork and base construction. Version identical to model FR, but frame is closed on 3 sides, with additional reinforcement profiles on the sides. Delivered with protective film.		Surcharge on frame model FR 346

Fitting

Pit model P

Fitting by welding. Equipped with 30 mm thick flat steel on rear.

From 3500 mm length and with higher rated loads, support profiles are required on site.

Frame model FR

Fitting by casting.

Laterally closed base frame with 3-sided all-round edge bracket, fitted with ventilation holes as well as anchors for setting in concrete, with adjustment angles to screw for adjusting to the casting height. Suitable for in-line fitting with prefabricated concrete components, as long as the casting height does not exceed 250 mm. Use of protective film (optional) recommended.

Further fitting variants (e.g. model F, B) optionally available.

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black).

Acoustic insulation




Identical to anti-slip coating, but approx. 3–4 mm thick on the platform.

Operator

Electro-hydraulic operator, motor power 1.1 kW as standard, connecting voltage 400 V / 50 Hz (for other frequencies, see 18), protection category IP 54. Connection cable minimum 7.5 m long as standard.

Control 420 T (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push buttons integrated in housing for separate actuation of the dock leveller and telescopic lip with press-and-hold actuation and "Auto" button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

Telescopic lip versions			€
	Type R, straight (up to 2000 mm wide as standard with no surcharge)	165	
	Type S, chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165	
	Type SG, segmented (straight telescopic lip shape), segment width approx. 170 mm, for telescopic lip length 1200 mm, segments without running plate profiling	507	
– Only for dock levellers with a rated load of up to 60 kN! Segment load max. 600 kg! –			
Telescopic lip 1000 mm	Rated load	Coated in RAL 9017	Galvanized
	Max. 60 kN	970	1230
	Max. 100 kN	1623	2496
	Additional surcharge for anti-slip coating / acoustic insulation		245
Telescopic lip 1200 mm Dock leveller ordering length min. 2500 mm	Max. 50 kN	1384	1738
	Max. 83 kN	2073	3208
	Additional surcharge for anti-slip coating / acoustic insulation		293

Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on running plate of platform and lip			Approx. 3–4 mm thick on running plate of platform, approx. 1–2 mm thick on running plate of lip			Required for galvanized version No. of dock levellers		
							1	2-10	> 10
5000	2448	2560	2743	3493	3651	3914	770	502	470
4500	2216	2322	2486	3162	3305	3541	770	502	470
4000	1988	2075	2222	2830	2960	3173	770	502	470
3500	1757	1836	1967	2502	2615	2804	685	417	384
3000	1529	1591	1708	2174	2269	2432	685	417	384
2750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

1) Pre-treatment required for galvanized version.

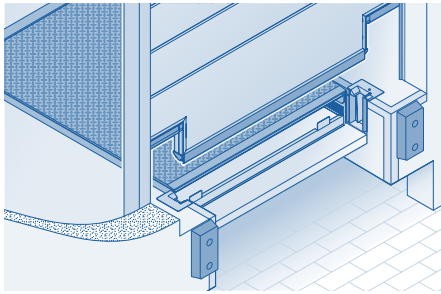
Special equipment						Note the possible longer delivery time!	
Ordering length	Thermal insulation ²⁾ At least 30 mm thick			Higher rated load up to 100 kN ³⁾		Gap sealing	RAL to choose
	Note: Gap sealing recommended! Insulation of the platform in the front area (lip length + 650 mm) not possible for technical reasons.			Coated in RAL 9017	Galvanized		
				Surcharge on version 60 kN in RAL 9017	Surcharge on version 60 kN galvanized	Not in combination with DOBO system	
5000	898	1019	1255	-	-	296	Surface finish coating in RAL to choose See page 19.
4500	803	913	1128	3080	3721	293	
4000	715	809	1002	2818	3337	265	
3500	623	709	874	2644	3094	248	
3000	533	605	745	2458	3007	236	
2750	488	554	678	2282	2813	228	
2500 ²⁾	441	500	617	2115	2691	222	
2000 ²⁾	348	397	489	1988	2522	222	
Ordering width	2000	2100	2250				

2) Thermal insulation for telescopic lip 1200 possible from ordering length 2750, for telescopic lip 1000 from ordering length 2500.

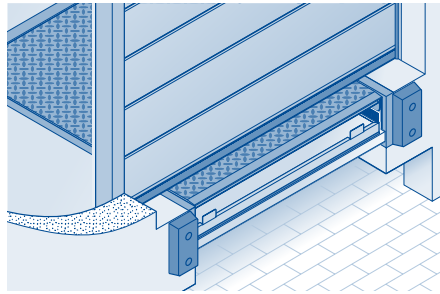
3) Pit model P requires on-site support at the cylinder support points!

Optional extras and special versions	See page 18
Controls and control accessories	See from page 20

Telescopic lip dock leveller HTL 2 ISO



HTL 2 ISO, situation with low-track sectional door in front of dock leveller, insulation panel protruding



HTL 2 ISO, situation with door on dock leveller

Insulated, self-supporting steel articulated design in accordance with EN 1398.

Rated load acc. to EN 1398 as standard 60 kN

The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for reach lift trucks: 40 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range.

Construction

Torsionally flexible dock leveller construction with 2-cylinder technology, platform made of moulded anti-slip steel, 8 / 10 mm thick (S 235), with telescopic lip made of moulded anti-slip steel, 15 / 17 mm thick (S 355), 650 mm long as standard, optionally 1150 mm, limited to 950 mm for ordering length 2000 mm, clear overlap length 390 mm.

Attention: The dimensions are not fitting dimensions. Note the fitting drawings for pit dimensions and ordering!



Ordering length	Exterior length	Telescopic lip length	Installation height	Pit model P coated RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
3000	3000	650	645	13700	13925	14241	2426	2522	2428
2750	2750	650	645	13479	13699	14005	2100	2193	2310
2500	2500	650	595	13222	13425	13718	1977	2063	2183
2000	2000	650	595	12754	12956	13231	1646	1822	1927
Ordering width				2000	2100	2250	2000	2100	2250
Dock leveller exterior width				2020	2120	2270			

Ordering length	Exterior length	Telescopic lip length	Installation height	Frame model FR coated RAL 9017 Indicate casting height: 100 to 250 mm			Surcharge for galvanized version (note the longer delivery time)		
3000	3070	650	645	13895	14122	14405	2307	2399	2483
2750	2820	650	645	13665	13932	14159	2173	2296	2365
2500	2570	650	595	13378	13587	13848	2038	2120	2224
2000	2070	650	595	12910	13112	13355	1708	1887	1973
Ordering width				2000	2100	2250	2000	2100	2250
Dock leveller exterior width				2160	2260	2410			

Fitting variants

Frame model F: Hang in preassembled frame and weld all-round. Version identical to model FR, but without anchors. Preassembled frame provided on-site or must be ordered separately, see page 12	Same price as frame model FR	-
Box model B: Cast in during ramp construction using on-site formwork and base construction. Version identical to model FR, but frame is closed on 3 sides, with additional reinforcement profiles on the sides. Delivered with protective film.	Surcharge on frame model FR	346

Telescopic lip versions

	Type R , straight (up to 2000 mm wide as standard with no surcharge)	165
	Type S , chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165
Telescopic lip 1150 mm for ordering length from 2500 mm		- Coated in RAL 9017 970
Telescopic lip 950 mm for ordering length 2000 mm		- Galvanized 1366
		- Additional surcharge for anti-slip coating / acoustic insulation 246

Panel variant

Insulation panel under platform protruding 160 mm	Required if the door closes on the panel surface in front of the dock leveller. Combination with low-track sectional door with sealing and centring unit recommended.	No surcharge
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Insulation and seal

Insulation panels, 50 mm thick, directly below the platform and lip, preassembled. Panel under lip moves when extending. Optional protruding panel under platform for combination with a low-track sectional door. Vertical and horizontal gap sealing, brush seals, seals made of tarpaulin material.

Fitting

Pit model P

Fitting by welding. Equipped with 30 mm thick flat steel on rear.

Frame model FR

Fitting by casting. Laterally closed base frame with 3-sided all-round edge bracket, fitted with ventilation holes as well as anchors for setting in concrete, with adjustment angles to screw for adjusting to the casting height. Suitable for in-line fitting with prefabricated concrete components, as long as the casting height does not exceed 250 mm.

Use of protective film (optional) recommended.

Further fitting variants (e.g. model F, B) optionally available.

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black).

Acoustic insulation

Identical to anti-slip coating, but approx. 3–4 mm thick on the platform.

Operator

Electro-hydraulic operator, motor power 1.1 kW as standard, connecting voltage 400 V / 50 Hz (for other frequencies, see 18), protection category IP 54. Connection cable minimum 7.5 m long as standard.

Control 420 T (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push buttons integrated in housing for separate actuation of the dock leveller and telescopic lip with press-and-hold actuation and “Auto” button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

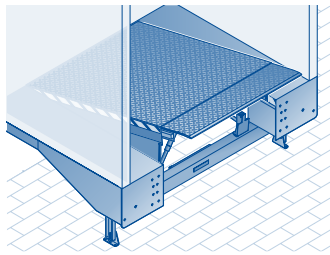
Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on running plate of platform and lip			Approx. 3–4 mm thick on running plate of platform, approx. 1–2 mm thick on running plate of lip			Required for galvanized version No. of dock levellers		
							1	2–10	> 10
3000	1529	1591	1708	2174	2269	2432	685	417	384
2750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

1) Pre-treatment required for galvanized version.

Surface coating in RAL to choose	See page 19
Optional extras and special versions	See page 18
Controls and control accessories	See from page 20

Loading platform HRT

Loading platform with hydraulic dock leveller in accordance with EN 1398 and side elements that can be fitted in front of the hall opening.



HRT

Rated load acc. to EN 1398 as standard 60 kN

Side element loading capacity of up to 1000 kg/m² (not suitable for driving over). The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for reach lift trucks: 40 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range

Construction




Steel construction with adjustable galvanized pedestal feet. Torsionally flexible dock leveller construction with 2-cylinder technology, side elements, platform and telescopic lip made of moulded, anti-slip steel, side elements 6/8 mm, platform 8/10 mm thick (S 420 and S 235 combined), telescopic lip 12/14 mm thick (S 420 and S 355 combined), 500 mm long, optionally available with 1000 mm, with gradient.

Ordering length	Exterior length / depth	Ramp height ¹⁾	Platform and lip coated in RAL 9017, galvanized side elements and front beam			Surcharge Galvanized platform and lip		
3000	2985	980 ²⁾ – 1425	13550	13840	14096	1351	1411	1484
2750	2735	980 ²⁾ – 1425	13247	13537	13593	1270	1333	1407
2500	2485	980 ²⁾ – 1425	12723	13066	13123	1195	1187	1322
2000	1985	980 ²⁾ – 1425	12109	12285	12438	1045	1099	1156
Ordering width			2000	2100	2250	2000	2100	2250

1) Ramp height measured from the top edge of the platform (not top edge of the running plate) to the bottom edge of the base on the front side. Note the required slope of 1% (for drainage) from the outer wall of the building! Tailboard slot height = ramp height – 800 mm

2) For angled arrangement min. 977 mm

RAL to choose	See page 19
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Telescopic lip versions		€
	Type R , straight (up to 2000 mm wide as standard with no surcharge)	165
	Type S , chamfered 100 mm on each side (over 2000 mm wide as standard with no surcharge)	165
	Type SG , segmented (straight telescopic lip shape), segment width approx. 170 mm Segment load max. 600 kg!	507
Telescopic lip 1000 mm	Rated load max. 60 kN	
	– Coated in RAL 9017	970
	– Galvanized	1230
	– Additional surcharge for anti-slip coating / acoustic insulation	245

Coupling element for the coupling of HRT loading platforms					
Ordering length	Exterior length / depth	Width			
		50 up to and incl. 70	Over 70 up to and including 100	Over 100 up to and including 300	Over 300 up to and including 500
3000	2985	196	392	1252	1664
2750	2735	188	376	1212	1604
2500	2485	180	364	1168	1540
2000	1985	168	332	1084	1412
Distance centre – centre of the dock leveller		3500 up to and incl. 3570	Over 3570 up to and including 3600	Over 3600 up to and including 3800	Over 3800 up to and including 4000

Surface finishes

Steel surfaces of platform and lip blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request. Side elements and front beam galvanized as standard.

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –10°C to +50°C. Special oil required for colder temperatures, see accessories.

Hole pattern

Side elements pre-drilled for fitting of buffers, docking assistance DAP, CPB support brackets for inflatable dock seal, Light Guide LG, as well as fitting of the carrier's lorry security belts.

Anti-slip

Platform and lip made of anti-slip running plate. On request, anti-slip coating class R11 acc. to DIN 51130, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black), not available on side elements for technical reasons.

Acoustic insulation

Identical to anti-slip coating, but approx. 3–4 mm thick on the platform. Not available on side elements for technical reasons.

Operator

Electro-hydraulic operator, motor power 1.1 kW as standard, connecting voltage 400 V / 50 Hz (for other frequencies, see 18), protection category IP 54. Connecting cable from motor at least 7.5 m long.

Control 420 T (standard)

Protected control housing, protection category IP 65, connecting voltage 400 V or 230 V / 50 Hz or 60 Hz. Membrane push buttons integrated in housing for separate actuation of the dock leveller and telescopic lip with press-and-hold actuation and "Auto" button for automatic return to home position. Emergency-off switch (all-pole switch-off), restart inhibition.

Special equipment							Note the possible longer delivery time!		
Ordering length	Anti-slip coating ¹⁾ (class R11)			Acoustic insulation ¹⁾			Pre-treatment		
	Approx. 1–2 mm thick, on running plate of dock leveller platform and lip			Approx. 3–4 mm thick on running plate of dock leveller platform, approx. 1–2 mm thick on running plate of lip			Required for galvanized version No. of dock levellers		
							1	2–10	> 10
3000	1529	1591	1708	2174	2269	2432	685	417	384
2750	1413	1471	1580	2011	2095	2247	685	417	384
2500	1300	1353	1447	1844	1923	2058	685	417	384
2000	1063	1108	1185	1515	1574	1688	685	417	384
Ordering width	2000	2100	2250	2000	2100	2250			

1) Pre-treatment required for galvanized version. Not available for side elements and pedestal add-ons for angled arrangement.

Special equipment				Note the possible longer delivery time!	
Ordering length	Thermal insulation	Gap sealing	RAL to choose		
	At least 30 mm thick, under the dock leveller and side elements Note: Gap sealing recommended! Insulation of the platform in the front area (lip length + 650 mm) not possible for technical reasons.				
3000	850	236	Surface coating in RAL to choose, see page 19.		
2750	773	228			
2500	704	222			
2000 ²⁾	555	222			

2) Thermal insulation for telescopic lip 1000 possible from ordering length 2500.

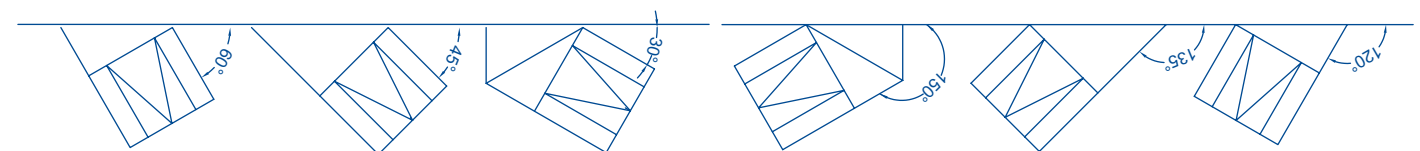
Pedestal add-ons for angled arrangement, galvanized surface (include drawing with order!)

Attention:

When ordering, make sure that a 7.5 m connection cable is long enough. Otherwise order a 12 m cable separately!

Anti-slip coating or acoustic insulation for pedestal add-ons not possible for technical reasons.

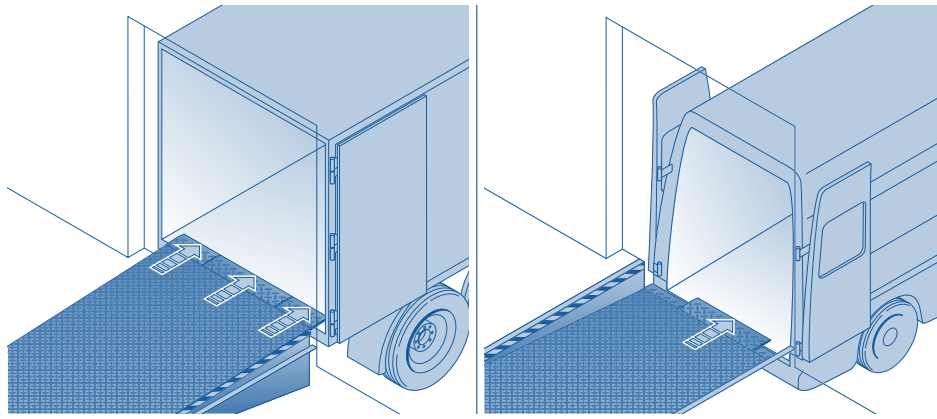
	Galvanized	Thermal insulation
		Min. 30 mm thick, below pedestal add-ons
30 / 150° arrangement	9519	678
45 / 135° arrangement	6892	587
60 / 120° arrangement	5083	343



Other versions and special equipment on request.

Optional extras and special versions	See page 18
Controls and control accessories	See from page 20

Telescopic lip dock leveller HTLV 4



Hydraulic dock leveller, with 3-part telescopic lip and weight compensation for either loading or unloading of lorries and transit vans

Self-supporting steel articulated design in accordance with EN 1398.

Rated load acc. to EN 1398

20 kN in transit van operating mode, 60 kN in lorry operating mode.

The following load limitation is recommended in order to avoid lane grooves with hard (PU / Vulkollan) wheels: for reach lift trucks: 40 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) acc. to EN 1398, see the sales documents for the working range.

Construction

Torsionally flexible dock leveller construction with 2-cylinder technology, platform made of moulded, anti-slip steel, 8/10 mm thick, with telescopic lip made of moulded, anti-slip steel

HTLV4

Attention: The dimensions are not fitting dimensions. Note the fitting drawings for ordering!

Ordering length = Exterior length	Installation height	Pit model P ¹⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
4500	895	23402	24514	25522	3493	3621	3802
4000	895	22500	23541	24511	2975	3232	3394
3500	795	21595	22568	23499	2780	2911	3055
3000	795	20552	21665	22560	2393	2521	2648
Ordering width	→	2000	2100	2250	2000	2100	2250
Dock leveller exterior width	→	2020	2120	2270			
Width of centre module of telescopic lip	→	1090	1190	1190			

1) If renovating, indicate the available pit dimensions. Adjustments may be necessary (surcharge)

Attention: In the size range shaded in blue, pit model P requires on-site support at the cylinder support points!

Ordering length	Exterior length	Installation height	Frame model FR ²⁾ Coated in RAL 9017			Surcharge for galvanized version (note the longer delivery time)		
4500	4570	895	23946	25139	26174	3751	3879	4073
4000	4070	895	23054	24097	25090	3298	3427	3598
3500	3570	795	22082	23054	24006	2911	3040	3192
3000	3070	795	20970	22082	22994	2458	2586	2715
Ordering width	→		2000	2100	2250	2000	2100	2250
Dock leveller exterior width	→		2160	2260	2410			
Width of centre module of telescopic lip	→		1090	1190	1190			

2) Attention: Indicate casting height!

Standard casting height FR: 100 mm, max. 250 mm

Fitting variants

Frame model F: Hang in preassembled frame and weld all-round, version identical to model FR, but without anchors, preassembled frame provided on site or to be ordered separately, see page 18.

Same price as frame model FR

€

Box model B: Cast in during ramp construction using on-site formwork and base construction, version identical to model FR, but frame is closed on 3 sides, with additional reinforcement profiles on the sides, delivered with protective film

Surcharge on frame model FR

346

Steel, 15 / 17 mm thick, 500 mm long, optionally 1000 mm, with gradient, 3-part, side modules up to 500 mm less extended than centre module in transit van operating mode, adjustable offset.
Note: 1000 mm telescopic lip required for transit vans if the vehicle doors cannot be opened 270°.

Fitting

Pit model P

Fitting by welding, dock leveller equipped with 30 mm thick flat steel on rear, support profile is required on site from 3500 mm length.

Frame model FR

Fitting by casting, laterally closed base frame with 3-sided all-round edge bracket, fitted with ventilation holes as well as anchors for setting in concrete, with adjustment angles to screw for adjusting to the casting height, model suitable for in-line fitting with prefabricated concrete components as long as the casting height does not exceed 250 mm, use of protective film (optional) recommended.

Further fitting variants (e.g. F, B model) optionally available

Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017, RAL to choose or galvanized on request

Temperature range

Standard version suited for temperature range (under the dock leveller) of approx. –25°C to +50°C

Anti-slip

Platform and lip made of anti-slip running plate, anti-slip coating class R11 acc. to DIN 51130 on request, approx. 1–2 mm thick, made of polyurethane with injected Twaron fibres, black surface finish, available for dock leveller in RAL 9017 (black)

Acoustic insulation

Identical to anti-slip coating, but approx. 3–4 mm thick on the platform

Operator



Motor power with a rated load of 60 kN, 1.5 kW, connecting voltage 400 V / 50 Hz, other frequencies on request, protection category IP 54. Connection cable at least 12 m long

// NEW

Control 560 V

Control housing with illuminated control buttons and 4-digit 7-segment display, Bluetooth for BlueControl as standard, protection category IP 65, connecting voltage 400 V / 50 Hz or 60 Hz, buttons integrated in the housing for separate actuation of dock leveller and telescopic lip with press-and-hold actuation, "Switch / Return" button for switching between the "lorry" and "van" operating modes and for automatic return to home position, emergency-off switch (all-pole switch-off), restart inhibition, energy-saving function, extension housing with external power supply unit



Telescopic lip versions		€
	Type R , side segments straight on outside, up to 2000 mm wide as standard with no surcharge	165
	Type S , side segments chamfered on outside by 100 mm on each side, over 2000 mm width as standard with no surcharge	165
Telescopic lip 1000 mm	– Coated in RAL 9017	1305
	– Galvanized	1681
	– Additional surcharge for anti-slip coating / acoustic insulation	394

Special equipment, optional extras							Note the possible longer delivery time!			
Ordering length	Anti-slip coating ¹⁾ (Class R11) Approx. 1 – 2 mm thick, on running plate of platform and lip			Acoustic insulation ¹⁾ Approx. 3 – 4 mm thick on running plate of platform, approx. 1 – 2 mm thick on running plate of lip			Gap sealing	Pre-treatment Required for galvanized version No. of dock levellers		
								1	2-10	> 10
4500	2216	2322	2486	3162	3305	3541	293	770	502	470
4000	1988	2075	2222	2830	2960	3173	265	770	502	470
3500	1757	1836	1967	2502	2615	2804	248	685	417	385
3000	1529	1591	1708	2174	2269	2432	236	685	417	385
Ordering width	2000	2100	2250	2000	2100	2250				

1) Pre-treatment required for galvanized version.

Surface coating in RAL to choose	See page 19
Optional extras and accessories for control 560 V	See from page 22
Further optional extras	See page 18

Thermal insulation not available!

Other optional extras and special versions

			HLS	HLS 2	HRS	HTL 2	HTL 2 ISO	HRT	HTLV 4
Electro-hydraulic unit			€						
Hydraulic system for temperatures below the dock leveller up to –25°C. Adjustment using special oil for a larger temperature range, as standard and with no surcharge for HTLV4	Per dock leveller	52	•	•	•	•	•	•	
Operator with 230 V 1-phase current motor 50/60 Hz, up to 1.1 kW	For hinged lip dock levellers up to 60 kN	498	•	•	•				
	For telescopic lip dock levellers up to 100 kN	498				•	•	•	
Operator with 230 V 3-phase current motor 50/60 Hz, up to 1.1 kW	For hinged lip dock levellers up to 60 kN	No surcharge	•	•	•				
	For telescopic lip dock levellers up to 100 kN	No surcharge				•	•	•	
Other operator voltages and frequencies (a transformer may be required)		On request							
Drip pan for hydraulic oil, retractable, dock leveller is prepared accordingly (included in the price).		259	•			•			
Reinforced platform			€						
Running plate 8/10 instead of 6/8, e.g. for the use of forklifts with PU/Vulkollan tyres, such as reach lift trucks, etc. (for HRS only on dock leveller platform), not required for pedestal add-ons due to design reasons	Per m²	107	•	•	•				
Further optional extras			€						
Preassembled frame for dock levellers (frame model), 3-part (separate), made of steel profiles, galvanized, for casting in concrete, including anchor	For dock levellers up to 90 kN	Per m	130		•		•	•	•
	For dock levellers up to 100 kN (2 × length + 1 × width)		162						
Platform provided with protective film									
Standard and at no surcharge with	Per dock leveller	99	•	•	•	•	•	•	•
<ul style="list-style-type: none"> – All box models – As well as all models with anti-slip coating or acoustic insulation. 									
Controls and control accessories									See page 20
Dock leveller with RFID technology			€						
Dock leveller equipment with 3 antennas and slots in the platform, running plate 8/10 required. Max. rated load 60 kN. Please inquire for higher rated loads (up to max. 90 kN). Unavailable: - HTL2/HRT with nominal length < 2500 mm and 1000 mm telescopic lip - HTL2 with nominal length < 2750 mm and 1200 mm telescopic lip - Thermal insulation in the antenna area. Equipment and price are non-binding. Delivery only on a project basis with testing at the customer's premises.			3450						
Lift leveller HLL			€						
Combination of hydraulic scissors lift table and telescopic lip dock leveller			On request						

RAL to choose

Notes:

- Not available in combination with anti-slip coating or acoustic insulation!
- The following metal and signal colours are not available:
RAL 1026 Luminous yellow, RAL 2005 Luminous orange
RAL 2007 Luminous bright orange, RAL 3024 Luminous red,
RAL 3026 Luminous bright red, RAL 9006 White aluminium,
RAL 9007 Grey aluminium
- The RAL colours of group 2 require additional primer coating.

19

Basic controls 420 S and 420 T

– Included in the basic price of the dock leveller as standard –

Control

- Control in a separate housing
- Emergency-off switch (all-pole switch-off)
- Protection category IP 65 (jet-water protected)
- Red / green LED as an operation indicator
- Restart inhibition
- Housing size (W x H x D) approx. 200 x 160 x 130 mm

Operation

Control 420 S for hinged lip dock levellers

- Membrane push buttons integrated in housing for actuation via press-and-hold actuation and "Return" button for automatic return to home position

Control 420 T for telescopic lip dock levellers

- Membrane push buttons integrated in the housing for separate actuation of dock leveller and telescopic lip with press-and-hold actuation and "Return" button for automatic return to home position

Function

- Prepared for dock leveller release function
- Energy-saving function *
- Automatic return of the dock leveller to home position

420 S

- Automatic hinged lip movement

420 T

- Direction-bound extension and retraction of the telescopic lip

* Adjustable if maximum load of 60 kN is not exceeded in home position (even for dock levellers with higher rated load).

Control	Version	Article no.	Surcharge
Control 420 S 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 2 membrane push buttons	–	–
Control 420 T 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 4 membrane push buttons	–	–

Optional extras for controls 420 S and 420 T

Prices are only in conjunction with a dock leveller order.

Dock leveller release function	Article no.	€
<i>Dock leveller can only be operated when the door is open. Door position must be queried.</i>		
• Magnet switch for fitting to the sectional door boom	436339	73
• Magnet switch for fitting to the rolling shutter side guide	637743	63
• Position switch with roller for fitting to the door locking (only possible for manually operated door)		95
• Limit switch reporting of the operator control (only possible for power-operated door) via <ul style="list-style-type: none"> – Option relay HOR1-300 – Travel limit circuit board article no. 637028 or for connection of an LED docklight to travel limit circuit board article no. 637052 – Multi-function circuit board article no. 637026. Take into account when ordering the operator control.		
Door release function	Article no.	€
<i>Door only closes when the dock leveller is in home position. Dock leveller position must be queried.</i>		
• Activating kit for door release (connected to the operator control), incl. proximity switch DR (fitting to the dock leveller). PR 1, article no. 637614, required.		197
• Relay circuit board PR 1 with hat rail for the door release function	637614	45

Special solutions and controls

On request

Control accessories

See page 23

Combination controls 420 Si and 420 Ti

– Dock leveller control with integrated door operation
for operator WA 300 S4 or WA 300 R S4 –

Control	Operation	Function
<ul style="list-style-type: none"> Control in a separate housing Emergency-off switch (all-pole switch-off) Protection category IP 65 (jet-water protected) Red / green LED as an operation indicator Restart inhibition Housing size (W × H × D) approx. 200 × 330 × 130 mm 	<p>Operation</p> <p><u>Control 420 Si for hinged lip dock levellers</u></p> <ul style="list-style-type: none"> Membrane push buttons integrated in housing for actuation via press-and-hold actuation and "Return" button for automatic return to home position Membrane push buttons integrated in the housing for door operation <p><u>Control 420 Ti for telescopic lip dock levellers</u></p> <ul style="list-style-type: none"> Membrane push buttons integrated in the housing for separate actuation of dock leveller and telescopic lip with press-and-hold actuation and "Return" button for automatic return to home position Membrane push buttons integrated in the housing for door operation 	<p>Function</p> <ul style="list-style-type: none"> Prepared for dock leveller release function Energy-saving function * Automatic return of the dock leveller to home position Door opening with impulse Door closing with impulse <p><u>420 Si</u></p> <ul style="list-style-type: none"> Automatic hinged lip movement <p><u>420 Ti</u></p> <ul style="list-style-type: none"> Direction-bound extension and retraction of the telescopic lip <p>* Adjustable if maximum load of 60 kN is not exceeded in home position (even for dock levellers with higher rated load).</p>

Control	Version	Article no.	Surcharge
Control 420 Si 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 5 membrane push buttons		67
Control 420 Ti 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 7 membrane push buttons		67

Optional extras for controls 420 Si and 420 Ti

Prices are only in conjunction with a dock leveller order.

Dock leveller release function	Article no.	€
<i>Dock leveller can only be operated when the door is open. Door position must be queried.</i>		
• Option relay HOR1-300 for integrated locking, with 10 m system cable		70
• Magnet switch for fitting to the sectional door boom	436339	73
• Magnet switch for fitting to the rolling shutter side guide	637743	63
Door release function	Article no.	€
<i>Door only closes when the dock leveller is in home position. Dock leveller position must be queried.</i>		
• Activating kit for door release (connected to the operator control), incl. proximity switch DR (fitting to the dock leveller). PR 1, article no. 637614, required.		197
• Relay circuit board PR 1 with hat rail for the door release function	637614	45
Special solutions and controls	On request	

Control accessories	See page 23
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Multi-controls 560 S, 560 T and 560 V



Control

- Micro-processor control in separate housing
- Emergency-off switch (all-pole switch-off).
- Protection category IP 65 (jet-water protected)
- Restart inhibition
- Housing size (W x H x D) approx. 200 x 330 x 130 mm
- Control 560 V, additionally with extension housing with external power supply unit

Operation

Control 560 S for hinged lip dock levellers

- Membrane push buttons integrated in housing for dock leveller actuation via press-and-hold actuation, for actuation of the inflatable dock seal and/or roll-up flap and "Return" button for automatic return to home position.
- Bluetooth for BlueControl as standard
- Keypad illumination
- 4-digit 7-segment display

Control 560 T for telescopic lip dock levellers

- Membrane push buttons integrated in housing for separate actuation of the dock leveller and telescopic lip with press-and-hold actuation, for actuation of the inflatable dock seal and/or roll-up flap and "Return" button for automatic return to home position

Control 560 V for dock leveller HTLV 4

- Membrane push buttons integrated in housing for separate actuation of the dock leveller and telescopic lip with press-and-hold actuation, for actuation of the inflatable dock seal and/or roll-up flap and "Switch/Return" button for switching between the "lorry" and "van" operating modes and for automatic return to home position

Function

- Prepared for dock leveller release and door release function. Sensor fitted in the dock leveller at the factory and included in the control price.

- Integrated control of inflatable dock seal and/or roll-down top flap. Extension PCB required for roll-up flap function
- Automatic return of the dock leveller to home position. Sensor fitted in the dock leveller at the factory and included in the control price.
- Semi-operation: Sequence control for automatic actuation of the door, dock leveller and inflatable dock seal or roll-up flap. Extension PCB required!
- Energy-saving function *

560 S

- Automatic hinged lip movement

560 T/V

- Direction-bound extension and retraction of the telescopic lip

* Adjustable if maximum load of 60 kN is not exceeded in home position (even for dock levellers with higher rated load).

Control	Version	Article no.	Surcharge	
Control 560 S 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 3 membrane push buttons		557	
Control 560 T/V 400 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 3-phase current 230 V / 50 Hz or 60 Hz 1-phase current	In housing with main switch and 5 membrane push buttons		560 T	557
			560 V	-

Optional extras for controls 560 S/T/V

Prices are only in conjunction with a dock leveller order.

Dock leveller release function	Article no.	€
<i>Dock leveller can only be operated when the door is open. Door position must be queried.</i>		
• Magnet switch for fitting to the sectional door boom	436339	73
• Magnet switch for fitting to the rolling shutter side guide	637743	63
• Position switch with roller for fitting to the door locking (only possible for manually operated door)		95
• Limit switch reporting of the operator control (only possible for power-operated door) via <ul style="list-style-type: none"> – Option relay HOR1-300 – Travel limit circuit board article no. 637028 or for connection of an LED docklight to travel limit circuit board article no. 637052 – Multi-function circuit board, article no. 637026 – For operator control series 545 and 560 directly via BUS connection 		
Take into account when ordering the operator control.		

Door release function	Article no.	€
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Door only closes when the dock leveller is in home position. Dock leveller position must be queried.

Proximity switch DR, already fitted in the dock leveller		-
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Roll-up flap additional function (not required for rolling flap RCP)	Article no.	€
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- *Roll-up flap: lowering in press-and-hold operation, raising with impulse. If available, combined operation of the roll-up flap and inflatable dock seal via a membrane push button (not required for rolling flap RCP)*
- *Semi-operation: partially automated loading sequence combining the functions of dock leveller control, dock seal and OPEN door travel / CLOSE door travel*
- *Connection of further accessories such as DAP, signal transmitter, VBV 5*

Extension PCB, article no. 635067, required		
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Extension PCB for control 560 S/T/V	Article no.	€
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In combination with additional functions only 1 x required. Depending on additional equipment, extension housing, article no. 636094, required.

Extension housing	Article no.	€
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To accommodate the extension PCB when connecting various accessories.

Battery unit	Article no.	€
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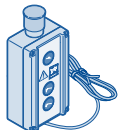

Battery unit for control 545/560, incl. batteries
To buffer the time and date of the control if it is not supplied with mains voltage for longer than 60 hours.

	4514027	21
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Special solutions and controls	On request	
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Control accessories	See page 23	
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Control accessories

Warning lights for control 560 S / T / V		Article no.	€
	LED traffic light red / yellow / green for exterior (24 V DC), 1-arm (extension PCB required)	637896	195
	LED traffic light yellow (230 V / 50 Hz) (extension PCB required)	637536	115
	LED traffic light red (230 V / 50 Hz) (extension PCB required)	637534	124
	LED traffic light red / green (230 V / 50 Hz) (extension PCB required)	637537	208
	LED traffic light red / yellow / green (230 V / 50 Hz) (extension PCB required)	637573	304
SmartControl for control 560 S / T / V		Article no.	€
SmartControl gateway Web-based solution for remote support of sectional doors via the SmartControl portal. Secure data transfer and management via Deutsche Telekom mobile network and servers. Simple overview of all door-relevant data as well as prompt and clear information transfer. Notice: Only possible in conjunction with item no. 639351! In combination with operator control series 545 / 560 only 1 x required		4514094	329
Annual usage fees for SmartControl per year The mobile connection required for SmartControl is made via the Deutsche Telekom mobile network using the mobile radio standard 2G and 3G. Other mobile radio standards / networks or other mobile radio network operators cannot be used for SmartControl. The use of the required mobile radio connection requires the conclusion of a contract for the provision of the mobile radio connection between the owner / operator and us, which is separate from the purchase of SmartControl gateways. In this respect, we solely provide the services of Deutsche Telekom for use and accept no liability, in particular for disruptions or failures caused by the services of Deutsche Telekom. The minimum contract term is 5 years and the annual usage fee is charged yearly in advance.		639351	74
Post		Article no.	€
Post STI 1 without control, to hold max. 2 controls and an extension housing		437083	252
Dock leveller control		Article no.	€
External control in Signal yellow, RAL 1003, for dock levellers in loading house, with 15 m connection cable for permanent wiring, required if dock leveller is not completely visible from the control housing			
	DTH-T for telescopic lip dock leveller, connection to control 420 T(i)	637893	258
	DTH-T for telescopic lip dock leveller, connection to control 560 T / V	635593	302
	DTH-S for hinged lip dock leveller, connection to control 420 S(i)	637894	250
	DTH-S for hinged lip dock leveller, connection to control 560 S	635594	302
Door operation		Article no.	€
Push button control 300 U for the operation of Hörmann industrial doors ► See the corresponding Hörmann industrial door price list			
Push button control 400 U for the operation of doors of other makes, in a semi-housing, Open-Close-Stop button with volt-free contacts, power supply 24 V DC		637116	On request
Transformer		Article no.	€
Transformer (required if there is no neutral conductor available on site) Additional feed-in of 3 L without N for 400 V industrial door controls		637101	On request
Housing heater		Article no.	€
Housing heater for fitting in industrial controls		637422	237
Additional accessories		On request	

Pedestals

Pedestals PS 2 and PT 2

- 3-part construction made of steel profiles with 2 transverse profiles certified acc. to EN 1090
- Platform made of moulded, anti-slip steel, 6/8 mm thick, galvanized
- Adjustable pedestal feet, galvanized
- Loading capacity up to 1000 kg/m² as standard (side elements not suitable for driving over)
- Delivery incl. (provisional) profile for positioning the pedestal and dock leveller.

Hole pattern:

- Side elements pre-drilled for fitting of buffers as standard, docking assistance DAP, CPB support brackets for inflatable dock seal, Light Guide LG, as well as fitting of the carrier's lorry security belts.

Suitable for the following dock levellers:

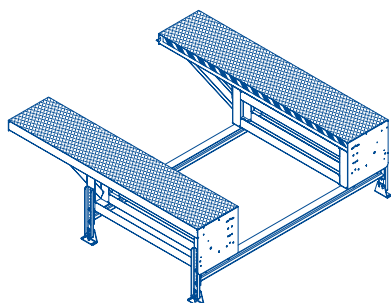
- HLS 2 and HTL 2
 - As pit model P
 - With 30 mm thick flat steel on rear
 - With standard height

Notice:

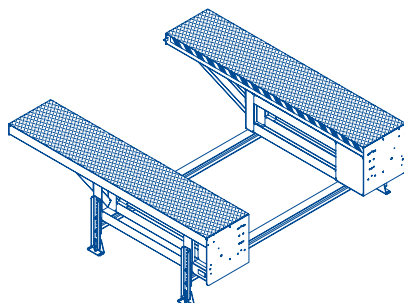
Up to and incl. 3000 mm ordering length and a rated load of 60 kN, we recommend the use of loading platforms HRS / HRT.

Pedestal type PS 2 for dock leveller HLS 2

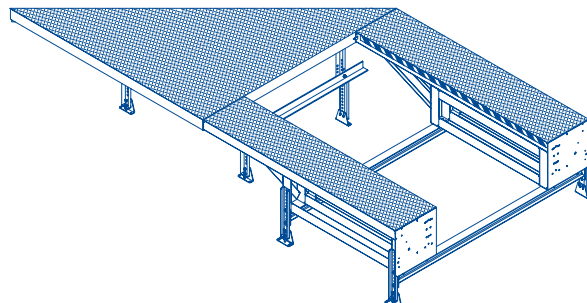
(shown: version with ordering length > 3000 mm, with additional beam)



Pedestal type PT 2 for dock leveller HTL 2



Angled arrangement (PS 2)



For dock levellers model P with a rated load of 60 kN and ordering length	Exterior length / depth Dock leveller / pedestal	Ramp height ¹⁾ Min. – max.	PS 2 for dock leveller HLS 2	PT 2 for dock leveller HTL 2	Thermal insulation Min. 30 mm thick, below pedestal side elements		
			Standard width 3500 mm	Standard width 3500 mm	Dock leveller ordering width		
					2000 mm	2100 mm	2250 mm
5000	4985	1110 – 1565 ²⁾	8403	8559	710	665	590
4500	4485	1110 – 1565 ²⁾	8087	8246	639	596	532
4000	3985	1110 – 1565 ²⁾	7767	7927	570	531	473
3500	3485	1110 – 1565 ²⁾	7106	7265	499	464	415
3000	2985	1010 – 1465	5128	5256	428	400	354
2750	2735	1010 – 1465	4903	5032	392	367	329
2500	2485	960 ³⁾ – 1415	4619	4700	355	335	298
2000	1985	960 ³⁾ – 1415	4216	4339	289	265	238

1) Ramp height measured from the top edge of the platform (not top edge of the running plate) to the bottom edge of the base on the front side.
Note the required slope of 1% (for drainage) from the outer wall of the building!

Tailboard slot height for dock levellers up to 60 kN = ramp height – (installation height of dock leveller NH + 114)

2) Lower ramp height on request

3) Angled arrangement min. 977 mm

Pedestal for dock levellers with a higher rated load

€

	Surcharge for version 60 kN	
PS 2 for HLS 2 with a rated load of 90 kN	≤ 3 m length	1056
Minimum ramp height 10 mm higher than rated load of 60 kN, height of tailboard slot = ramp height – (NL + 133)	> 3 m length ⁴⁾	139
PT 2 for HTL 2 with a rated load of 100 kN	≤ 3 m length	1673
Minimum ramp height 10 mm less than rated load of 60 kN, height of tailboard slot = ramp height – (NL + 133)	> 3 m length ⁴⁾	943

4) The lower surcharge for pedestals with length > 3000 mm is due to the fact that the required additional beam is already available for dock levellers longer than 3000 mm.

Coupling element for coupling of pedestals PS 2 and PT 2

Ordering length	Exterior length / depth	Width			
		50 up to and including 70	More than 70 up to and including 100	More than 100 up to and including 300	More than 300 up to and including 500
5000	4985	260	524	1632	2264
4500	4485	248	496	1572	2116
4000	3985	232	468	1468	1964
3500	3485	220	436	1368	1836
3000	2985	196	392	1252	1664
2750	2735	188	376	1212	1604
2500	2485	180	364	1168	1540
2000	1985	168	332	1084	1412
Distance centre – centre of the dock leveller		3500 Up to and including 3570	3570 Up to and including 3600	3600 Up to and including 3800	More than 3800 Up to and including 4000

Pedestal add-ons for angled arrangement, galvanized surface (include drawing with order!)

Attention:

When ordering, make sure that a 7.5 m connection cable is long enough. Otherwise order a 12 m cable separately!

Anti-slip coating or acoustic insulation for pedestal add-ons not possible for technical reasons.

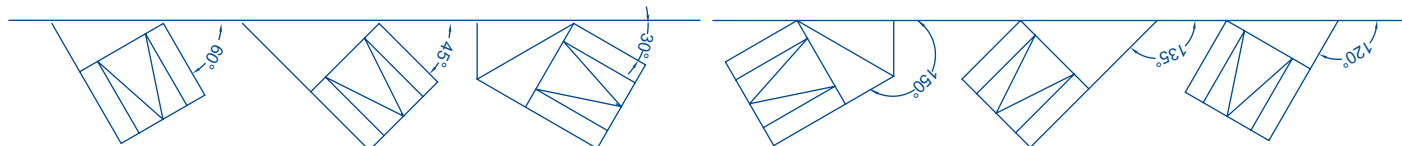
For dock levellers with a rated load of 60 kN	Surcharge	Thermal insulation Min. 30 mm thick, below pedestal add-ons
30 / 150° arrangement	9519	678
45 / 135° arrangement	6892	587
60 / 120° arrangement	5083	343

Pedestal add-ons for dock levellers with a higher rated load

€

Surcharge for version 60 kN

PS 2 for HLS 2 with a rated load of 90 kN	30 / 150° arrangement	1862
	45 / 135° arrangement	1647
	60 / 120° arrangement	1372
PT 2 for HTL 2 with a rated load of 100 kN	30 / 150° arrangement	3597
	45 / 135° arrangement	3298
	60 / 120° arrangement	1880



Other versions and special equipment on request.

Loading Houses

Loading house (roof and side construction only)

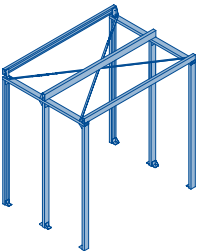
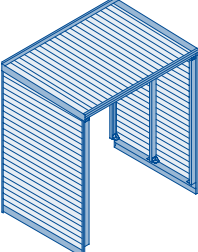
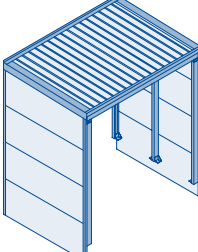
- Designed for HRS/HRT loading platforms as well as dock levellers in combination with pedestals PS 2/PT 2. Important: The prices are valid for all stated combinations.
- Static calculation according to EN 1990
- Frame construction certified acc. to EN 1090
- Galvanized steel frame construction, delivered as separate parts, 1 roof panel must be cut on site!
- Roof with slope to the front to drain off rainwater
- Roof load bearing capacity
 - For type LHF 2/LHC 2 max. 1 kN/m²
 - For type LHP 2 max. 3 kN/m²
 - For coupled LHP 2/LCP 2/LHF 2 1.75 kN/m²
- Max. wind load 0.65 kN/m²
- Cladding (type LHC 2/LHP 2) complete with edge profile strips

- Cladding LHP 2 lined on inside and outside (profile LL)
- Surface primer-coated, as standard in Grey white, based on RAL 9002, exterior also available in White aluminium on request, based on RAL 9006 (same price)
- A fully equipped loading house consists of:
 - Roof and side construction
 - Loading platform (HRS/HRT) or pedestal and dock leveller
 - Dock seal/shelter
 - Buffers

Notes:

- When ordering, please specify the subsurface for fitting or select suitable fixing material.
- Make sure that a perpendicular and flat wall connection is available.
- Loading houses require extensive consultation. Please contact us!
- Up to and incl. 3000 mm ordering length and a rated load of 60 kN, we recommend the use of loading platforms HRS/HRT.
- Loading houses can be combined with these dock seals:
 - DSL/DSS/DSSR, ordering width 3500 mm
 - DAS 3, ordering width 3600 mm
- Loading houses without gutter can also be combined with:
 - DSLr, ordering width 3500 mm
- Loading houses in recess version can be combined with:
 - DAS 3-L

Loading houses without pedestal (only roof and side construction)

					
For loading platforms or dock levellers with ordering lengths	Exterior length	Arrangement	LHF 2 For on-site horizontal cladding (W x H) 3500 x 3600 mm Frame height 3600 mm	LHC 2 With single-skinned cladding (W x H) 3590 x 3645 mm Frame height 3600 mm	LHP 2 Cladding with sandwich panels, 60 mm thick (W x H) 3625 x 3680 mm Frame height 3600 mm
5000	4985	90°	3632	7574	12076
4500	4485	90°	2985	6641	10950
4000	3985	90°	2953	6208	10032
3500	3485	90°	2922	5779	8878
3000	2985	90°	2207	4790	7496
2750	2735	90°	2191	4571	7038
2500	2485	90°	2177	4359	6455
2000	1985	90°	2143	3926	5548

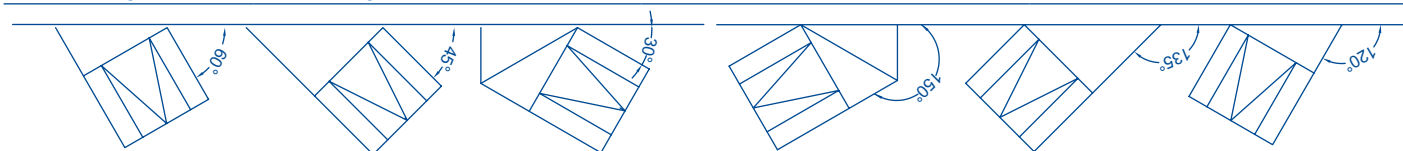
Loading houses with special length in 5 mm grid

Exterior length	Arrangement			
Over 4985 up to 5235	90°	3875	8132	12886
Over 4670 up to 4985	90°	3875	8062	12461
Over 4485 up to 4670	90°	3258	7197	11759
Over 4235 up to 4485	90°	3258	7124	11336
Over 3985 up to 4235	90°	3227	6764	10842
Over 3735 up to 3985	90°	3227	6693	10418
Over 3485 up to 3735	90°	3164	6336	9687
Over 3170 up to 3485	90°	3164	6265	9264
Over 2985 up to 3170	90°	2449	5344	8306
Over 2735 up to 2985	90°	2434	5128	7881
Over 2485 up to 2735	90°	2420	4915	7422
Over 2235 up to 2485	90°	2420	4841	6840
Over 1985 up to 2235	90°	2387	4482	6356
1735 to 1985	90°	2387	4411	5932

Angled arrangement (include drawing with order!), delivered separately

	LHF2 For on-site horizontal cladding (W × H) 3500 × 3600 mm Frame height 3600 mm	LHC2 With single-skinned cladding (W × H) 3590 × 3645 mm Frame height 3600 mm	LHP2 Cladding with sandwich panels, 60 mm thick (W × H) 3625 × 3680 mm Frame height 3600 mm
Arrangement	Surcharge on 90° arrangement		
30 / 150°	1750	4243	5797
45 / 135°	1141	2958	4379
60 / 120°	1075	2233	3059

Roof cladding must be sawed at an angle on-site.



Higher roof load bearing capacity up to max. 4.5 kN/m² on request.

Other versions and special equipment on request.

External control for dock levellers

See page 23

Required if the area of travel of the dock leveller, in particular the overlap of the lip on the lorry, is not easily visible, e.g. when the dock leveller control is fitted within the building.

Coupled loading house without pedestal

Only roof and side construction, roof cladding with sandwich panels, 90° arrangement only.

For coupling elements for pedestals, see HRS on page 8, HRT on page 14 or pedestals on page 24.

Calculation: basic price plus the price per loading point × number of loading sites

Indicate distance centre – centre of the dock leveller including panel thickness on order. Dimensional grid: 5 mm

Ordering length of loading platform or dock leveller	Basic price per row	Price per loading site	
		Max. roof load bearing capacity 3.00 kN/m ²	Max. roof load bearing capacity 1.75 kN/m ²
LHF 2 – distance centre – centre of the dock leveller:		Min. 3500 mm, max. 3600 mm	Min. 3605 mm, max. 4000 mm
5000	490	3797	4082
4500	490	3469	3742
4000	490	3421	3695
3500	490	3046	3326
3000	490	2440	2754
2750	490	2416	2728
2500	490	2228	2542
2000	490	2199	2511
LHC 2 – distance centre – centre of the dock leveller:		Min. 3545 mm, max. 3600 mm	Min. 3605 mm, max. 4000 mm
5000	3969	8346	8650
4500	3792	7615	7901
4000	3618	7134	7418
3500	3445	6356	6645
3000	3268	5423	5673
2750	3184	5184	5435
2500	3096	4801	5051
2000	2922	4341	4591
LHP 2 – distance centre – centre of the dock leveller:		Min. 3565 mm, max. 3600 mm	Min. 3605 mm, max. 4000 mm
5000	5265	8928	9171
4500	4955	8118	8344
4000	4649	7521	7747
3500	4343	6684	6910
3000	4032	5579	5838
2750	3879	5336	5594
2500	3726	4940	5198
2000	3420	4467	4725

Higher roof load bearing capacity for coupled loading houses, distance centre to centre of dock leveller over 3600 mm

		Surcharge per loading site
3000	Max. roof load bearing capacity 2.65 kN/m²	1724
2750	Max. roof load bearing capacity 2.90 kN/m²	1724
2500	Max. roof load bearing capacity 3.00 kN/m²	1724
2000	Max. roof load bearing capacity 2.70 kN/m²	1724

Accessories and special versions for loading houses

See page 28

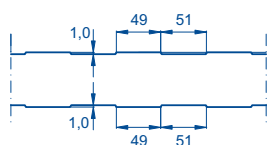
Accessories and special versions for loading houses

Special versions and other optional extras				€
Gutter with drainpipe, on one side				
Notice:		Surcharge		623
If combined with a dock seal DAS 3, the frame of the loading house is 50 mm higher.				
Installation frame for doors in loading houses, only for Decotherm SB rolling shutter, ordering size:				
• 2880 × 2900 mm		Surcharge		454
• 2880 × 3100 mm for DOBO version				
LHF 2 prepared for vertical cladding	Ordering length ≤ 3000 mm	Surcharge		293
	Ordering length > 3000 mm ≤ 4500 mm	Surcharge		438
	Ordering length > 4500 mm	Surcharge		579
LHC 2 / LHP 2 side panelling up to the lower edge of the dock leveller, LHF 2 prepared for side cladding up to the lower edge of the dock leveller	For LHP 2 the bottom and top panel must be cut to size	Surcharge	On request	
LHF 2 with higher roof load bearing capacity up to a max. of 3 kN/m²	LHF 2 ordering length ≤ 3000 mm	Surcharge		224
	LHF 2 ordering length > 3000 mm ≤ 4500 mm	Surcharge		402
	LHF 2 ordering length > 4500 mm	Surcharge		765
	Angled arrangement add-on parts surcharge on 90° version		No surcharge	
LHC 2 with increased roof load bearing capacity, up to max. 3 kN/m², roof cladding with sandwich panels	LHC 2 ordering length ≤ 3000 mm	Surcharge		1382
	LHC 2 ordering length > 3000 mm ≤ 4500 mm	Surcharge		2236
	LHC 2 ordering length > 4500 mm	Surcharge		2843
	Angled arrangement add-on parts surcharge on 90° version	Surcharge		805
Version with recess for fitting an inflatable dock seal DAS 3 L (3500 × 3500 × 850 mm), cladding 850 mm longer corresponding to the depth of the dock seal.	LHC 2	Surcharge		518
	LHP 2	Surcharge		1160
Roof bracket with 150 mm high upward canting		Per loading house		71
Roof girder to relieve vertical forces (snow load) on the facade with 90° arrangement (standard connection profile omitted)		Per loading house		89
Roof panels with foam-free protrusion against ice formation, for loading house lengths from 2500 mm or in combination with dock seal DAS 3 L		Surcharge		54
Preformed gasket for sealing between the loading house and the facade				42
Snow protection		Per loading house		138
Cover strip including facade putty (free of silicone and isocyanate)		Per loading house		118

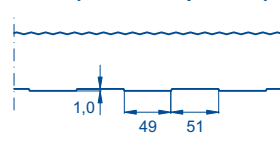
LHC 2 – roof interior in a version to prevent condensation (not required for version with higher roof load bearing capacity)			LHC 2 / LHP 2 – alternative cladding on exterior in special colour and / or with special lining (see below)		
For loading platforms or dock levellers with ordering lengths	Arrangement	LHC 2 Surcharges	Surcharge per loading house		
			Number		
			1	2 – 10	> 10
5000	90°	578	417	319	237
4500	90°	520	400	299	220
4000	90°	466	380	284	200
3500	90°	411	361	262	180
3000	90°	352	343	244	162
2750	90°	328	334	235	154
2500	90°	297	325	224	144
2000	90°	239	305	205	126
Surcharge for version with 90°	30 / 150°	247	135	135	135
	45 / 135°	214	109	109	109
	60 / 120°	129	69	69	69
For version with recess: Surcharge for recess area		54	54	54	54

Special lining for sandwich panels LHP 2:

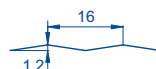
LL (standard)



M8L (exterior micro-profiled) M16L (exterior V-profiled)



M8L



M16L

Special colours including edge profile strip coating for exterior LHC 2 and LHP 2:

RAL 1015 Light ivory	RAL 7032 Pebble grey
RAL 3000 Flame red	RAL 7035 Light grey
RAL 3009 Oxide red	RAL 8004 Copper brown
RAL 5003 Sapphire blue	RAL 8011 Nut brown
RAL 5009 Azure blue	RAL 8012 Red brown
RAL 5010 Gentian blue	RAL 9001 Cream
RAL 6005 Moss green	RAL 9002 Grey white (standard)
RAL 6009 Fir green	RAL 9005 Jet black
RAL 6011 Reseda green	RAL 9006 White aluminium (standard)
RAL 6020 Chrome green	RAL 9007 Grey aluminium
RAL 7000 Squirrel grey	RAL 9010 Pure white
RAL 7005 Mouse grey	
RAL 7012 Basalt grey	
RAL 7016 Anthracite grey	

Mechanical dock leveller MLS / mechanical loading platform MRS

Self-supporting steel articulated design in accordance with EN 1398.

Rated load acc. to EN 1398:

Up to 1500 mm width 45 kN,

From 1750 mm width 60 kN

The following load limitation is recommended in order to avoid lane grooves with hard (PU/Vulkollan) wheels: for electric lift trucks with tandem rollers 50 kN (only applicable for a rated load of 60 kN), for reach lift trucks 30 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) in acc. with EN 1398, working range +68 / -106 mm

Construction

Platform and hinged lip made of moulded, anti-slip steel, platform 6 / 8 mm thick (S 235), hinged lip 12 / 14 mm thick (S 355 JO), 405 mm long, with gradient, with open, self-cleaning lip hinge. Loading platform MRS with 2 galvanized steel support brackets to hold buffers. Operation via a control bar with chain, counterbalance via gas spring.

Fitting

Dock leveller MLS

Fitting by welding in a prepared pit.

Loading platform MRS

Fitting by welding in front of the loading platform.

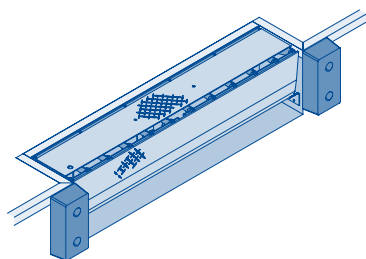
Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60–80 µm) in Traffic black, RAL 9017 or on request in Ultramarine blue, RAL 5002 (same price) or RAL to choose (for a surcharge).

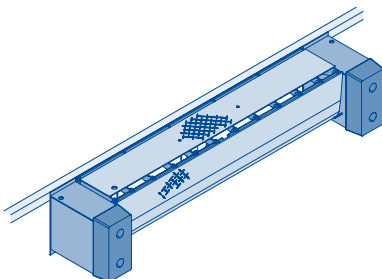
Notice:

Required minimum depth of the dock seal for loading platform MRS: 900 mm.

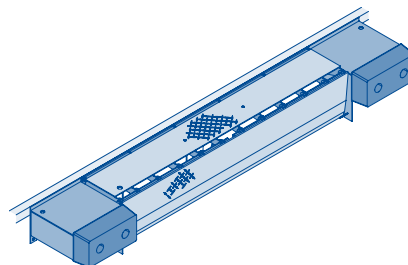
Mechanical dock leveller type MLS



Mechanical loading platform type MRS V with vertical support brackets



Mechanical loading platform type MRS H with horizontal support brackets



Attention: prices without buffers. The dimensions are not fitting dimensions. Note the fitting drawings!

	Dock leveller exterior length	Coated in RAL 9017					Surcharge for galvanized version				
MLS	435	2064	2280	2294	2343	2496	235	250	264	315	357
MLS B	435	2391	2537	2734	2786	2939	361	378	397	473	546
MRS V	435	2719	2916	2949	2998	3145	380	392	413	464	513
MRS H	435	2879	2952	2988	3039	3186	386	400	419	470	518
Ordering width (without support brackets)		1250	1500	1750	2000	2250	1250	1500	1750	2000	2250

Special equipment

	Anti-slip coating ¹⁾ Class R11					Acoustic insulation ¹⁾					Pre-treatment Required for galvanized version Number of dock levellers / loading platforms		
											1	2–10	> 10
MLS / MRS	796	810	832	857	885	915	934	957	1003	1046	489	222	189
Ordering width (without support brackets)	1250	1500	1750	2000	2250	1250	1500	1750	2000	2250			

¹⁾ Possible for dock leveller in RAL 9017 (black), pre-treatment required with galvanized version.

Coating

	€
RAL 5002 Ultramarine blue	Surcharge 31
RAL to choose, colours of group 1 (see page 19)	Surcharge 118
RAL to choose, colours of group 2 (see page 19)	Surcharge 175

Buffers

		Dimensions (W × H × D) in mm		€
DB 15	Rubber buffer without fixing material	250 × 500 × 100	Each	227
DB 15 PU	PU buffer, without fixing material	250 × 500 × 100	Each	460
SB 15	Steel buffer, galvanized, fully damped (not possible for MRS H), without fixing material	277 × 518 × 112	Each	481
Fitting set for 1 buffer	DB 15 (PU) / SB 15	Directly on concrete	Per set	30
	DB 15 (PU)	To steel bracket	Per set	10
	SB 15	To steel bracket	Per set	12

Further optional extras

	Article no.	€
Guard rail for bracket (2 units required per loading site). For combination with foam-filled inflatable corner cushion only after consultation with the factory!	181785	Each 183

Mechanical tailboard MRF

Self-supporting steel articulated design in accordance with EN 1398.

Rated load acc. to EN 1398:

See price table.

The following load limitation is recommended in order to avoid lane grooves with hard (PU / Vulkollan) wheels: for electric lift trucks with tandem rollers 50 kN (only applicable for a rated load of 54 and 60 kN), for reach lift trucks 30 kN.

Gradient / tilt

Up to 12.5% (approx. 7°) in acc. with EN 1398, working range +68 / -106 mm

Construction

Platform made of profiled, anti-slip steel, 12 / 14 mm thick (S 355), 870 mm long (L), with gradient. Operation via a control bar with chain, counterbalance via gas spring. With galvanized steel support brackets on the side to hold buffers: 560 mm deep for DB 15 / SB 15, 510 mm deep for VB 2 / SBM

Fitting

Fitting by welding in front of the loading platform.

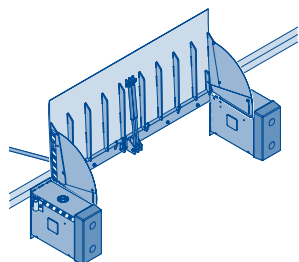
Surface finishes

Steel surfaces blasted, 2C PU-coated (layer thickness 60 – 80 µm) in Traffic black, RAL 9017 or on request in Ultramarine blue, RAL 5002 (same price) or RAL to choose (for a surcharge).

Notice:

Required minimum depth of dock seal: 900 mm.

Mechanical tailboard type MRF



Attention: prices without buffers. The dimensions are not fitting dimensions. Note the fitting drawings!

	Tailboard exterior length	Coated in RAL 9017					Surcharge for galvanized version				
MRF	870	3005	3144	3258	3398	3496	386	400	419	470	518
Ordering width (without support brackets)		1250	1500	1750	2000	2250	1250	1500	1750	2000	2250
Rated load (kN)		38	45	54	60	60	38	45	45	60	60

Special equipment

	Anti-slip coating ¹⁾ Class R11					Acoustic insulation ¹⁾					Pre-treatment Required for galvanized version Number of tailboards		
											1	2 – 10	> 10
MRF	796	810	832	857	885	915	934	957	1003	1046	489	222	189
Ordering width (without support brackets)	1250	1500	1750	2000	2250	1250	1500	1750	2000	2250			

1) Possible for dock leveller in RAL 9017 (black), pre-treatment required with galvanized version.

Coating

	€
RAL 5002 Ultramarine blue	Surcharge 31
RAL to choose, colours of group 1 (see page 19)	Surcharge 118
RAL to choose, colours of group 2 (see page 19)	Surcharge 175

Buffers

		Dimensions (W × H × D) in mm		€
DB 15	Rubber buffer without fixing material	250 × 500 × 100	Each	227
DB 15 PU	PU buffer, without fixing material	250 × 500 × 100	Each	460
SB 15	Steel buffer, galvanized, fully damped, without fixing material	277 × 518 × 112	Each	481
VB 2	Rubber buffer, movable	250 × 595 × 149	Each	883
SBM	Steel buffer, movable	277 × 610 × 161	Each	1115
Fitting set for 1 buffer	DB 15		Per set	10
	DB 15 PU		Per set	10
	SB 15		Per set	12
	VB 2		Per set	8
	SBM		Per set	8

Further optional extras

	Article no.	€
Guard rail for bracket (2 units required per loading site) In combination with foam-filled inflatable corner cushion only after consultation with the factory!	181785	Each 183

Notes and sketches

Flap dock shelters

Frame construction

- 3-sided front and rear frame made of galvanized steel profiles
- Flexible frame connection thanks to link arms or scissors arms made of galvanized steel profiles
 - Link arms: marking "L"
 - Scissors arms: marking "S", delivery preassembled on front and rear frame
- The side and top flaps, as well as the side and top cladding are fixed with weather strip rails made of anodised aluminium

Top part

- Angled top part: no marking, drainage via slope 100 mm
- Straight top part: marking "R", side drainage via water drainage channel

Top and side flaps

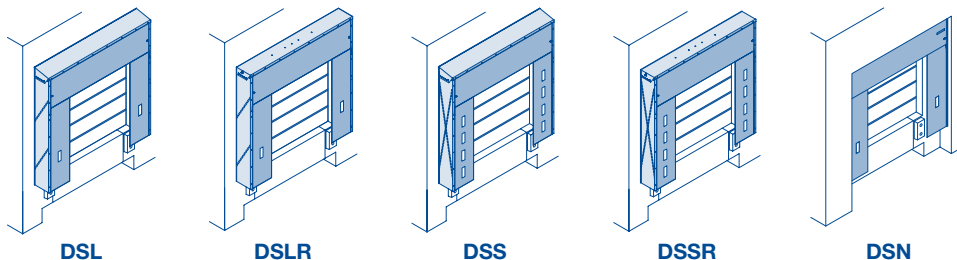
- Delivered separately, for scissors arm construction preassembled at a surcharge
- 2-layer elastic backing fabric made of polyester, approx. 3 mm thick, coated with plastic on both sides, in Graphite black, based on RAL 9011
- For a surcharge in
 - Basalt grey, based on RAL 7012
 - Gentian blue, based on RAL 5010
- Side flaps with transversal strength thanks to monofilament thread insert
- Top flap reinforced with multifilament thread insert
- Side flaps with marker stripes in white, yellow, orange or red.

Side and top cladding with weather strip profile

- Single-layer backing fabric made of polyester fibres, coated with plastic on both sides, black
- In the colour of the top and side flaps for a surcharge.

Models

- Dock models: no marking, for loading platforms
- Roadway models: marking "G", for hall openings without loading platforms
- Recess versions: marking "N", for fitting in recesses or loading houses, without link arm or scissors arm construction
- For combination with loading houses: ordering width 3500 mm required, DSLR cannot be combined with loading house with gutter.

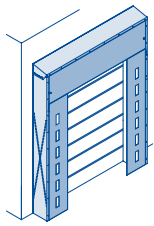


Dock models								
Type		DSL	DSLR***		DSS	DSSR	DSN (recess fitting)	
Ordering width	Ordering height	€	€	Ordering height	€	€	Ordering height	€
2800	2800	1453	1543	2800	–	–	2800	–
3000	3000	1453	1543	3000	–	–	3000	–
2800	3000	1453	1543	3000	–	–	3000	–
3000	2800	1453	1543	2800	–	–	2800	–
3350	3500	1608	1697	3500	2842	2942	3500	1293
3500	3500	1608	1697	3500	2842	2942	3500	1293
3350	3750	1724	1813	3750	2969	3074	3750	1335
3500	3750	1724	1813	3750	2969	3074	3750	1335
Special sizes								
Price basis for ordering height	up to 3000	1453	1543	Up to 3750*	2842	2942	Up to 3750*	1293
	Up to 3750*	1608	1697					
Plus surcharge for special width		236	236		236	236		236
Plus surcharge for special height	Min. height 2600**	236	236	Min. height 3200	236	236	Min. height 2600	236
Number of marker stripes per side	1			4			1	
Width of side flap	600 / 700			600 / 700			600 / 700	

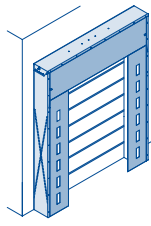
* For higher dock shelters in special sizes, see roadway models

** For depth 900 mm min. 3500 mm

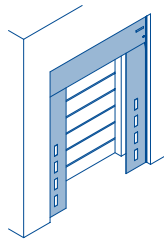
*** Not suitable for fitting under a canopy and in loading houses



DSS-G



DSSR-G



DSN-G

Roadway models					
Type	DSS-G		DSSR-G	DSN-G (recess fitting)	
Ordering width	Ordering height	€	€	Ordering height	€
3350	4500	3437	3541	4500	1573
3500	4500	3437	3541	4500	1573
Special sizes					
Price basis for ordering height	Over 3750	3437	3541	Over 3750	1573
Plus surcharge for special width		236	236		236
Plus surcharge for special height		236	236		236
Number of marker stripes per side	6			4	
Width of side flap	600 / 700				
Optional extras					€
Deviating top flap height (standard 900 mm)				1000 mm	101
				1200 mm	154
Deviating depth (standard 500 mm)	Height up to 3000 mm			600 mm	No surcharge
	Height over 3000 mm			600 mm	72
	Only DSL / DSS / DSS-G			900 mm	147
If no canopy is present, for a 900 mm depth, a water drainpipe in the top cladding is strongly recommended for water drainage					

Optional extras for flap dock shelters

Optional extras		€
Telescopic link arms for DSL (R) for 500 mm or 600 mm depth	Surcharge	210
Inflatable corner cushions for DSL (R), DSS (R), per set (2 ×)	For 500 mm depth	222
	For 600 mm depth	252
	For 900 mm depth	303
Inflatable corner cushions with mounting strap for DSN, per set (2 ×)	500 mm deep	270
	600 mm deep	301
Number on top flap (0...99), approx. 300 mm high, in the colour of the marker stripes (not available for laminated top flap)	Per top flap	122
Side and top flaps in special colour Basalt grey or Gentian blue	Dock model	361
	Roadway model	372
Side cladding in colour of the top and side flaps	Dock model	192
	Roadway model	210
Top cladding with water drainage channel for dock shelters with 500 mm or 600 mm depth. Recommended for situations with high facades and long stoppage times (as standard for type "R")		107
Water drainpipe in the top cladding for dock shelters with 900 mm depth. Recommended for dock shelters that are not placed under a canopy.		144
Sealing set for sealing to the facade, consisting of a preformed gasket and facade putty	Per set	87
Top flap with one side cut on both the right and left side		140
Top flap with corner lamination, 2 side cuts on both the right and left side		147
Top flap fully laminated with 100% overlapping		537
Top flap height < 900 mm (minimum 500 mm)		71
Top and side flap preassembled for scissors arm construction	Dock model	126
	Roadway model	223
Additional roll-up flap, black, for dock shelter widths 3350 – 3500 mm (other dimensions on request), intended for lowering to the roof of small vehicles after docking, electrically operated (230 V press-and-hold operator) including wind lock (not possible for recess version)	Length 2000 mm	1541
	Length 2500 mm	1641
Removable bottom flap for roadway model, black, in grey or blue on request. State height (max. 1300 mm)!		463
"Storm set", not in combination with roll-up flap, not available for laminated top flaps, not available for top flaps higher than 1200 mm	Per dock shelter	328
KTP set, side flap suspension, consisting of 2 pulley blocks, cord and tension spring, instead of tension cables	Per dock shelter	69

Notes and sketches

Flap dock shelters DDF 10

Construction

- Side elements made of foam-filled cushions on a base frame
- Casing made of textile-reinforced plastic flaps, black.
- Flexible roof construction with support yoke that moves upwards with telescopic arms.
- Slope 100 mm to the front, side drainage.

Top and side flaps

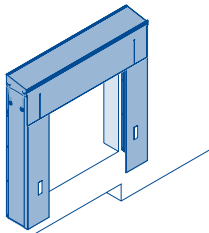
- 2-layer elastic backing fabric made of polyester threads, approx. 3 mm thick, coated with plastic on both sides, black
- Side flaps with 1 marker stripe in white
- Top flaps with corner cut

Delivery

- Side flaps and side cushions separate (Velcro fastening)
- Roof construction pre-fitted

Notice:

Fixing material for fitting to the facade included in the price if indicated on the order.



DDF 10

Dock model DDF 10

Side flap 600 mm wide, top flap 900 mm high, depth 600 mm

	Ordering size (W x H)	Front opening (W x H)	
Dock models	3300 x 3500 mm	2100 x 2450 mm	2389
(Not suitable for loading houses)	3400 x 3500 mm	2200 x 2450 mm	2389
Dock models for loading houses	3500 x 3500 mm	2300 x 2450 mm	2389

Optional extras

		€
Special height of top flap 500, 550, 600, 700, 800 mm	No surcharge	
Special height of top flap 1000, 1100, 1200 mm	Surcharge	146
Inflatable corner cushions	Per set (2 pieces)	252
Number on top flap (0...99), approx. 300 mm high, white	Surcharge per dock shelter / seal	122
Special width up to 3500 mm	Surcharge	146
Special height up to 4300 mm	Surcharge	397
Top flap with corner lamination, 2 side cuts on both the right and left side	Surcharge	23
Top flap fully laminated with 100% overlapping	Surcharge	353
Sealing set for sealing to the facade, consisting of a preformed gasket and facade putty		87
"Storm set", not available for laminated top flap	Per dock shelter	328

Notes and sketches

Inflatable dock seals

Inflatable dock seal as a dock or roadway model for optimum sealing with vehicles with various dimensions

Design of DAS 3

- Roof and side construction made of double-skinned steel panels, 20 mm thick, coated in Grey white (RAL 9002) or White aluminium (RAL 9006) with anodised, rounded aluminium corner profiles.
- Flexible front strips, made of double-layered polyester monofilament thread backing fabric, approx. 3 mm thick, plastic coated in Graphite black, based on RAL 9011.
- Dock model with separate inflatable corner

cushions (foam-filled cushions, suitable in combination with dock levellers up to 2100 mm width).

Inflatable cushions

- Telescopic extending cushions made of weather-resistant, high-frequency welded PVC.

DAS 3 blower

- 230 V fan, motor power 0.37 kW, 1340 m³/h, total duration approx. 10 s (additional fan required for roadway models with top cushion from 2000 mm height and side cushions from 800 mm width)

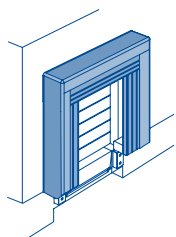
- Return of the cushions to home position using tension cables and counter weight.

DAK 3

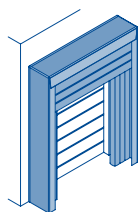
- Identical to DAS 3, but with foam-filled, angled cushions on the sides, see DFH for material
- Side cushions: width at front 500 mm, width at rear 150 mm, depth 350 mm
- 230 V fan max. 500 m³/h.

Notice:

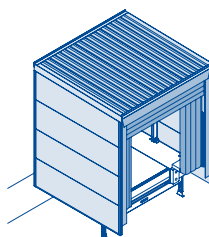
Fixing material for fitting to the facade included in the price if indicated on the order.



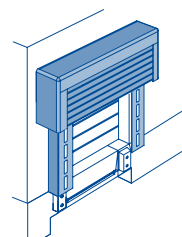
DAS 3



DAS-G 3



DAS 3-L



DAK 3

Type	Width	Height	Depth	Side cushions	Front opening				€
					Home position		Working position		
	B	H	D	Width	Width	Height	Width	Height	
Dock models									
DAS 3	3600	3550	850	600	3100	3150	2400	2550	6329
DAS 3	3600	3850	850	600	3100	3450	2400	2850	6576
DAK 3	3600	3500	850*	Front 500 Rear 150	2400	3100	2400	2500	7775
Roadway model									
DAS-G 3	3600	4700	850	600	3100	4300	2400	3700	8580
Recess and loading house version, fitting in the opening									
Dock model									
DAS 3-N	3600	3550	-**	600	3100	3150	2400	2550	4596
DAS 3-N	3600	3850	-**	600	3100	3450	2400	2850	4673
Roadway model									
DAS-G 3-N	3600	4700	-**	600	3100	4300	2400	3700	5731
Dock models for special loading house version with integrated recess									
DAS 3-L dock model including steel base construction	3500	3500	850	600	2950	3200	2250	2500	5851

* Side cushion depth: 350 mm

** Recess at least 850 mm deep

Special versions			Surcharge €	
Price basis for DAS... with ordering height up to and including 3850 mm: price for ordering height 3550 mm				
Price basis for DAS... with ordering height over 3850 mm: price for ordering height 4700 mm				
Special height max. 300 mm larger or smaller than standard	DAS(-G) 3	Per dock shelter	898	
	DAS(-G) 3-N / DAS 3-L larger than standard	Per dock shelter	595	
	DAS(-G) 3-N / DAS 3-L smaller than standard	Per dock shelter	440	
	DAK 3 larger than standard	Per dock shelter	555	
	DAK 3 smaller than standard	Per dock shelter	296	
Special width max. 300 mm larger or smaller than standard	DAS(-G) 3 / DAK 3	Per dock shelter	898	
	DAS(-G) 3-N larger than standard	Per dock shelter	595	
	DAS(-G) 3-N smaller than standard	Per dock shelter	440	
Special depth	DAS 3 in depth 1200 mm with "Crash Protection Bar": support bracket for collision damage protection, galvanized; please order pre-drilled for fitting to HRS/HRT loading platforms, see page 8 / 14	Per dock shelter	1435	
Inflatable side cushions		200 mm wider on each side	667	
		400 mm wider on each side	1329	
Inflatable top cushion shorter than standard.		200 mm shorter	54	
Inflatable top cushion longer than standard, with steel tension cables.		200 mm longer	494	
		400 mm longer	845	
		600 mm longer	994	
		Not for DAK 3	800 mm longer	1644
		Not for DAK 3	1000 mm longer	2119
		Not for DAK 3	1200 mm longer	2451
Optional extras			€	
Operation via dock leveller control housing: Take into account when selecting the control for the dock leveller				
Inflatable corner cushion, 550 mm wide, instead of foam-filled version ► Not suitable for DAS 3-N	Depth of dock seal / shelter 850 mm		295	
	Depth of dock seal / shelter 1200 mm		367	
Number on top flap (0...99), approx. 200 mm high, white ► Not suitable for DAS(-G) 3-N	Surcharge per dock shelter / seal		122	
Side flap with marker stripes in white, 3 per side			75	
Roll-up RCH flap instead of top cushion, black, 2000 mm long, electrically operated, connecting voltage 230 V, lower in press-and-hold operation, raise with impulse ► Not suitable for DAS(-G) 3-N, DAK 3			1354	
Roll-up flap RCP instead of top cushion, 3000 mm long, electrically operated, with control, impulse operation via dock seal control ► Not suitable for DAS(-G) 3-N, DAK 3	For connection to control 560 S / T / V		2579	
	With power supply unit and transformer (24 V)		2827	
Sealing set for sealing to the facade, consisting of a preformed gasket and facade putty			87	
CPB support bracket for dock models DAS..., with depth 850 mm for protection against damage caused by moving parts, e.g. lorry doors, galvanized (as standard for depth 1200 mm); please order pre-drilled for fitting to HRS/HRT loading platforms, see page 8 / 14		Surcharge per set (2 units)	235	
Additional fan, connecting voltage 230 V, required for DAS-G 3(-N) with top cushion in 2000 or 2200 mm height and side cushions in 800 or 1000 mm width			1380	

DOBO system

DOBO system

Adjusted to loading site to allow opening of the lorry doors after docking. For special hygienic requirements (meat transports), deep-freeze transports and for customs purposes.

Components for DOBO system in the hall (example)

- Dock leveller HTL 2 DOBO-h with 1000 mm long extension, horizontal home position (cross-traffic possible to a limited extent)
- External control DTH-T
- Insulated panels or concrete floors below the dock leveller
- Dock seal DAS 3 DOBO
- Sectional door SPU 42 or SPU 67 Thermo
- Door holder
- Buffer VBV4 or VBV5
- Docking assistance system HDA-Pro or DAP
- Query of the OPEN end-of-travel position, e.g. magnet switch, for the dock leveller release function

Components for DOBO system in the loading house (example)

- Loading platform HRT DOBO-s with recess for the vehicle doors, low home position (door opening possible at any time)
- External control DTH-T
- Loading house body
- Dock seal DAS 3 DOBO or DAS 3-L DOBO
- Door holder
- Buffer VBV4 or VBV5
- Docking assistance system DAP
- Query of the OPEN end-of-travel position, e.g. magnet switch, for the dock leveller release function

Dock levellers HTL 2, HTL2 ISO and HTLV 4, pit model P in DOBO version

€

Ordering width up to 2100 mm.

Notice:

- External control required to be able to see the area of travel of the dock leveller.
- For HTL2 from ordering length 4500 mm, lower working range above the ramp level compared to the standard version.
- Automatic door closing not possible with control 560 T/V.

HTL 2, HTL 2 ISO, HTLV 4	Platform horizontal (h) in home position	Surcharge	298
HTL 2	Platform in the lowest position (s) in home position	Surcharge	298

Loading platform HRT as a DOBO version

€



Ordering width up to 2100 mm.

Side element with recess (H × D) 200 × 1250 mm, suitable for loading house body in standard version.

Notice:

- Important: Check whether an external control is required to be able to see the area of travel of the dock leveller.
- Automatic door closing not possible with control 560 T/V.

Platform horizontal (h) in home position, possible only after structural consultation with the factory	Surcharge	979
Platform in the lowest position (s) in home position. Adjustment of the home position is required when fitting in loading houses with rolling shutter. Note the surcharge!	Surcharge	979
Adjustment of the home position of HRT DOBO-s when fitting in loading houses with rolling shutter Decotherm	Surcharge	401

Article no.	Dock leveller control	€
	External control DTH-T in Signal yellow, RAL 1003, for telescopic lip dock levellers, required if dock leveller is not completely visible from the control housing	
	For dock levellers in the building, with 2 m spiral cable and magnetic fastener. Always required for HTL2 DOBO due to line-of-sight obstructions caused by opened lorry doors	281
637895	Connection to 420 T(i)	
635592	Connection to 560 T/V	333
	For loading houses, with 15 m connection cable for permanent wiring	258
637893	Connection to 420 T(i)	
635593	Connection to 560 T/V	302

Pedestal PT 2 as DOBO version

€

Recess (H × D) 200 × 1250 mm. Dock leveller ordering width up to 2100 mm.

Pedestal is suitable for loading house body in standard version.

Surcharge **693**

Loading house preparation for door fitting			€
Installation frame only for rolling shutter Decotherm SB, 2880 x 3100 mm		Surcharge	454


Article no.	Door holder for DOBO system to fasten lorry doors		€
	Post 1000 mm high, made of galvanized steel, with swivelling arm.		
311582	Arm length 580 mm	Fitting on steel	Each 269
311584		Fitting on concrete	
311583	Arm length 880 mm	Fitting on steel	Each 296
311585		Fitting on concrete	

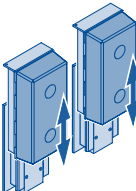
Article no.	Docking assistant HDA Pro		€
637567	Docking assistant HDA-Pro incl. control, 3 sensors, 1 magnet switch, 1 red / yellow / green LED traffic light for exterior, connection for 230 V AC yellow warning light for interior, door release function and automatic door opening after docking possible (door leaf activating kit for HDA-Pro required for the door!)		2941
637549	Door leaf activating kit for HDA-Pro for doors up to 6 m high		145

Alternative: docking assistant DAP, see page "Safety systems" on page 50

Article no.	Inflatable dock seal DAS 3 and DAS 3-L in DOBO version	€
637536	LED traffic light yellow for inside, 230 V AC	115
	As standard for DOBO version: with inflatable corner cushions	

For a product description, see page 38	Width B	Height H	Depth D	Side cushions Width	Front opening				€
					Home position		Working position		
	Width	Height	Width	Height					
Dock model									
DAS 3 DOBO	3600	3850	850	600	3100	3450	2400	2850	8031
Dock model for special loading house version with integrated recess									
DAS 3-L DOBO including steel base construction	3500	3800	850	600	2950	3400	2400	2800	7208

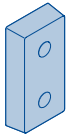
Buffer VBV 4		Dimensions (W × H × D)	€		
	PU buffer on support bracket, spring-loaded movable by 250 mm, lockable at pedestal level, set with grip handle, protective front plate not possible!		250 × 682 × 165 mm	Each	1154
	Fitting set for 1 buffer	Directly on concrete: 6 chemical anchors M16 × 190 with mortar cartridge		Per set	119
		Directly on the pedestal: 6 cap bolts M 16 × 40 with spring washers, plain washers and nuts		Per set	12
		On screw-in sleeves: 6 cap bolts M16 × 40 with spring washers		Per set	9
		Cast bolt sleeve M 16	Separate, total length 100 mm (6 required for each buffer)		
				Each	7

Buffer set VBV 5		Dimensions (W × H × D)	€
	Set, consisting of 2 PU buffers on support bracket, spring-loaded movable across 250 mm, lockable at pedestal level, automatic release after closing the door, with 7.5 m connecting lead, connecting voltage 230 V, operating voltage 24 V, 1 magnet switch with 5 m connecting lead, 2 grip handles. Protective front plate not possible!		250 × 682 × 195 mm
	incl. control in semi-housing		Per set 4024
	Without control, connection to dock leveller control 560 S / T / V		Per set 3475
	Fitting set for 2 buffers:	Directly on concrete: 12 chemical anchors M16 × 190 with mortar cartridge	Per set 237
		Directly on the pedestal: 12 cap bolts M 16 × 40 with spring washers, plain washers and nuts	Per set 23

Buffers for loading sites

Buffers

Dimensions (W × H × D) in mm

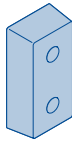


DB 15
250 × 500 × 100
Rubber buffers

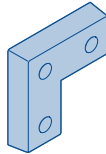
DB 15 PU
250 × 500 × 100
PU buffers



DB 15 XL
250 × 750 × 100
Rubber buffer,
requires mounting bracket BCV XL!



DB 20
250 × 500 × 140
Rubber buffer, depth too large for
combination with mechanical dock
levellers!



DB 25
450 / 180 × 450 / 180 × 100
Rubber buffers



VB 2
250 × 595 × 149
Rubber buffer DB 15 on support
bracket, spring-loaded movable
over 200 mm (+ / - 100 mm)



DB 11
80 × 490 × 90
Rubber buffer

Not recommended in combination
with dock levellers!

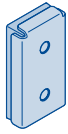
Buffers		DB 11	DB 15	DB 15 PU	DB 15 XL	DB 20	DB 25	VB 2
	Article no.	178679	155382	308998	2011419	155383	155384	
	Each	67	227	460	333	259	383	883
Fitting set for 1 buffer								
Directly on concrete	Per set	9	30	30	-	30	45	41
On filler plate FBC* to concrete	Per set	-	-	-	-	-	-	47
Directly on the pedestal	Per set	-	10	10	-	14	-	8
On mounting bracket* BCH 45 – 105	Per set	-	4	4	6	8	-	-
On mounting bracket* BCH 150 – 520	Per set	-	10	10	-	14	-	8
On mounting bracket* BCV (XL)	Per set	-	-	-	6	-	-	-
On mounting plate* BMP (S)	Per set	-	4	4	-	8	-	-
On cast bolt sleeves*	Per set	-	8	8	-	12	-	6

* Order separately, see page 44

Buffers for loading sites

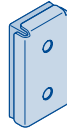
Steel buffers

Dimensions (W × H × D) in mm



SB 15

277 × 518 × 112
Steel buffer, galvanized, fully damped



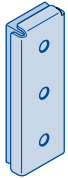
SB 20

277 × 518 × 152
Steel buffer, galvanized, fully damped



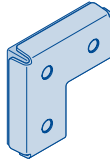
SBM

277 × 610 × 161
Steel buffer SB 15 on support bracket, spring-loaded movable by 200 mm (+ / - 100 mm)



SB 15 XL

277 × 768 × 112
Steel buffer, galvanized, fully damped.
Requires mounting bracket BCV XL!



SB 25

490 / 220 × 490 / 220 × 115
Steel buffer, galvanized, fully damped

Steel buffers

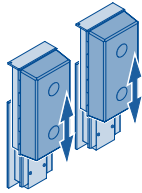
		SB15	SB15 XL	SB20	SB25	SBM
	Article no.	178988	2011420	178989		
	Each	481	684	514	676	1115
Fitting set for 1 steel buffer						
Directly on concrete	Per set	30	-	30	45	41
On filler plate FBC* to concrete	Per set	-	-	-	-	47
Directly on the pedestal	Per set	12	-	14	-	8
On mounting bracket* BCH 45 – 105	Per set	5	7	10	-	-
On mounting bracket* BCH 150 – 520	Per set	12	-	14	-	8
On mounting bracket* BCV (XL)	Per set	-	7	-	-	-
On mounting plate* BMP (S)	Per set	5	7	10	-	-
On cast bolt sleeves*	Per set	10	-	12	-	6

* Order separately, see page 44

Buffers for loading sites

Movable, lockable buffers

Dimensions (W × H × D) in mm



VBV 5

250 × 682 × 195

Set, consisting of 2 PU buffers on support bracket, spring-loaded movable by 250 mm, lockable at pedestal level, automatic unlocking after closing the door, with 7.5 m connecting lead, connecting voltage 230 V, operating voltage 24 V, 1 magnet switch with 5 m connecting lead, 2 grip handles. Protective front plate not possible!

Buffer set VBV 5

incl. control in semi-housing	Per set	4024
Without control, connection to dock leveller control 560 S/T/V	Per set	3475
Fitting set for 2 buffers	Directly on concrete	Per set 237
	Directly on the pedestal	Per set 23

Mounting plates, filler plate

Dimensions (W × H × D) in mm



BMP

250 × 500 × 5

Mounting plate, painted, black, for DB 15/DB 20 and SB 15/SB 20



BMPS

195 × 500 × 5

Mounting plate, painted, black, for DB 15/DB 20 and SB 15/SB 20. Special version with surface-mounted dock leveller edge bracket.



FBC

240 × 500 × 5

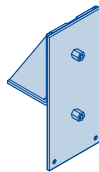
Filler plate, galvanized, for fitting VB 2/SBM and BCH with surface-mounted dock leveller edge bracket. Not suitable for fitting BCV (XL)!

Mounting plate / filler plate

	BMP	BMPS	FBC
Article no.	155388	309158	2000848
Each	69	67	67
Fitting set for 1 mounting plate			
Directly on concrete	Per set 6	6	–

Mounting bracket BCV (XL)

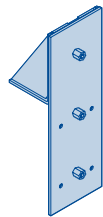
Dimensions (W × H × D) in mm



BCV

250 × 560 × 150 / 200

Mounting bracket, galvanized, for fitting above ramp level, for DB 15/DB 20 and SB 15/SB 20. Note the required fitting area on the ramp! Weld on all sides for fitting to a steel pedestal and do not combine with steel buffers!



BCV XL

250 × 760 × 150 / 200

Mounting bracket, galvanized, for fitting above ramp level, for DB 15 XL/SB 15 XL. Note the required fitting area on the ramp! Weld on all sides for fitting to a steel pedestal and do not combine with steel buffers!

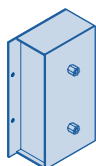
	Height above ramp level (mm)	100	120	150	200	250	300
Mounting bracket BCV	Each	212	212	221	222	245	297
Mounting bracket BCV XL	Each	246	246	261	275	306	340
Fitting set for 1 mounting bracket							
BCV directly on concrete	Per set	6	6	6	6	6	6
BCV XL directly on concrete	Per set	9	9	9	9	9	9
BCV (XL) directly on pedestal		Fitting by welding required. Please observe the notes in the fitting instructions!					

Notes and sketches

Buffers for loading sites

Mounting bracket BCH

Dimensions (W × H × D) in mm

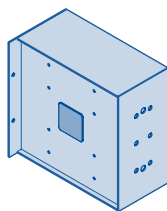


BCH 45 – 105

290 × 500

Mounting bracket, galvanized, primarily for tailboards, for DB 15/DB 20 and SB 15/SB 20.

Make sure that there is a sufficient dock leveller overlap on the loading surface!



BCH 150 – 520

290 × 500

Mounting bracket, galvanized, primarily for tailboards, for DB 15/DB 20, SB 15/SB 20 and VB 2/SBM.

Make sure that there is a sufficient dock leveller overlap on the loading surface!

Mounting bracket BCH 45 – 105

	BCH 45	BCH 65	BCH 85	BCH 105
Depth (mm)	45	65	85	105
Each	250	250	258	267

Fitting set for 1 mounting bracket

Directly on concrete	Per set	6	6	6	6
With filler plate* on concrete	Per set	6	6	6	6

Directly on the pedestal

Fitting by welding required. Please observe the notes in the fitting instructions!

* Order separately, see page 44.

Mounting bracket BCH 150 – 520

	BCH 150	BCH 200	BCH 300	BCH 350	BCH 400	BCH 500	BCH 520
Depth (mm)	150	200	300	350	400	500	520
Each	303	335	376	406	436	487	493

Fitting set for 1 mounting bracket

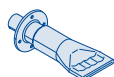
Directly on concrete	Per set	6	6	6	6	6	6
With filler plate* on concrete	Per set	6	6	6	6	6	6
Directly on the pedestal	Per set	7	7	7	7	7	7

* Order separately, see page 44.

Optional extras

Guard rail for mounting bracket BCH 300 – 520	for BCH 300 – 350 mm	Article no. 181786	Each	178
(2 units required per loading site)	for BCH 400 – 520 mm	Article no. 181785	Each	178

Cast bolt sleeves



Cast bolt sleeves

Overall length 100 mm

M 16/M 20

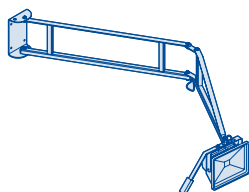
Cast bolt sleeve, individual

M 16	For VB 2, SBM, VBV 4	(4 or 6 required for each buffer)	Each	7
M 20	For DB 15, DB 20, SB 15, SB 20	(2 or 3 required for each buffer)	Each	7

Buffers for loading sites

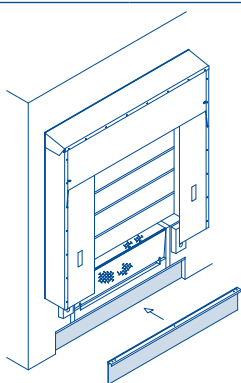
Contents of fitting sets for buffers													
Fitting set for	DB 11	DB 15 (PU)	DB 15 XL	DB 20	DB 25	VB 2	VBV 4	VBV 5	SB 15	SB 15 XL	SB 20	SB 25	SBM
Material type	Material quantity												
On concrete													
Bolt anchor													
M 12 × 120	3												
M 16 × 135						4							4
M 20 × 215		2		2	3				2		2	3	
Chemical anchors with mortar cartridge													
M 16 × 190							6	12					
With filler plate FBC on concrete													
Bolt anchor													
M 12 × 120						2							2
M 16 × 135						4							4
On pedestal													
Cap bolts with plain washer and nut													
M 20 × 80		2											
M 20 × 100									2				
M 20 × 130				2							2		
Cap bolts with spring washer and nut													
M 16 × 40						4	6	12					4
On screw-in sleeves													
Cap bolts													
M 20 × 80		2											
M 20 × 100									2				
M 20 × 130				2							2		
Cap bolts with spring washer													
M 16 × 40						4	6						4
On mounting plate BMP(S) or mounting bracket BCV or BCH 45 – 105													
Cap bolts													
M 20 × 40		2											
M 20 × 60									2				
M 20 × 80				2									
M 20 × 100											2		
On mounting bracket BCV XL													
Cap bolts													
M 20 × 40			3										
M 20 × 60										3			
To mounting bracket BCH 150 – 520													
Cap bolts with plain washer and nut													
M 20 × 80		2											
M 20 × 100									2				
M 20 × 130				2							2		
Cap bolts with spring washer, plain washer and nut													
M 16 × 40						4							4
Material quantity in fitting sets for mounting plates, filler plate and mounting brackets													
Fitting set for	Mounting plate BMP(S)			BCH 45 – 105		BCH 150 – 520		BCV		BCV XL			
Material type	Material quantity												
On concrete (also with filler plate FBC for BCH)													
Bolt anchor													
M 12 × 120	2			2		2		2		3			
On pedestal													
Cap bolts with spring washer, plain washer and nut													
M 20 × 40						2							
Only fitting by welding													
-				•				•		•			

Equipment for loading sites



DL 1400 LED

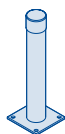
Article no.	Swivelling dock lighting, for inside.		€
2001071	DL 1400 LED, 30 W, 100–240 V, 50/60 Hz, IP 65, impact-resistant, with 2 m available connecting lead, without switch, incl. fixing material for fitting to concrete or steel. Switching possible with an external switch or via OPEN limit switch reporting (consider the operator control when ordering)	Each	320
637514	Main switch 230 V, 1-phase, in housing IP 65	Each	56



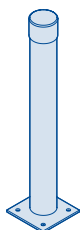
Tailboard slot cover

Tailboard slot cover to measurement			€
	Made of tarpaulin material (state flap material dimensions on order!)		
	Recommended: height = height of tailboard slot – 5 mm, width = width of tailboard slot – 10 mm	Each	328

Hydraulic scissors lift tables, tailboards and other accessories			On request
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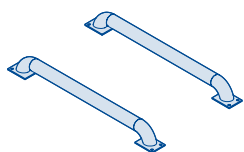
Post 600 mm high



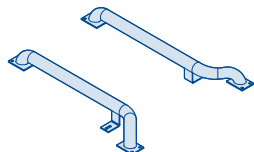
Post 1200 mm high

Article no.	Protection bollards made of steel, galvanized with bolt anchors		€
178899	Height 1200 mm, Ø approx. 170 mm, with yellow cap, with base plate 300 × 300 × 10 mm	Each	252
178633	Height 600 mm, Ø approx. 115 mm, with yellow cap, with base plate 200 × 200 × 10 mm	Each	138

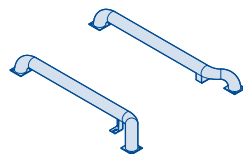
Equipment for loading sites



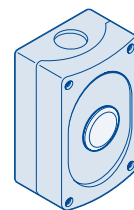
WSM



WBL

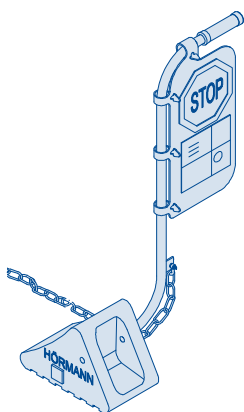


WBM



Light Guide

Article no.	Wheel guides made of steel, galvanized with mounting plate and bolt anchors			€
178680	WSM	Straight, Ø approx. 115 mm, height approx. 220 mm, length 1640 mm	Each	335
178686	WBL, right	Bent, Ø approx. 115 mm, height approx. 180 mm, length approx. 1900 mm	Each	425
178687	WBL, left	Bent, Ø approx. 115 mm, height approx. 180 mm, length approx. 1900 mm	Each	425
178681	WBM, right	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 1900 mm	Each	498
178682	WBM, left	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 1900 mm	Each	498
309035	WBM, right	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 2500 mm	Each	622
309036	WBM, left	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 2500 mm	Each	622
178946	WBM, right	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 3000 mm	Each	745
178945	WBM, left	Bent, Ø approx. 170 mm, height approx. 320 mm, length approx. 3000 mm	Each	745
178685	Cast foot, screw-on, for wheel guides (2 feet = 1 set required for each wheel guide)			236
			Per set	
Article no.	Optical manoeuvring guide			€
639783	Light Guide LG as an optical manoeuvring guide (2 LEDs incl. connecting leads, 24 V, 2 x 1.2 W); please order pre-drilled for fitting to loading platforms HRS / HRT, see page 8 / 14			303



WRH



WR

Wheel chocks				€
WR	Rubber wheel chock with 7 m long chain and wall holder, without sensor	Each		227
WRH	Rubber wheel chock with 7 m long chain and holder, without sensor	Each		272
	Storage bracket for wheel chock WRH	Surcharge each		61

Safety systems

Docking assistance DAP

Docking assistance DAP

Distance-based vehicle detection with signal transmission to driver, can be combined with release and control functions. Arrangement to the right viewed from outside or with a mirrored arrangement, e.g. with limited space or left-hand traffic.

Set with optionally 1 or 2 photocells, 2nd photocell for yellow signal outside with approx. 500 to 1000 mm distance between lorry and ramp, 1st photocell for red light signal at approx. 50 to 100 mm distance.

Photocells 24 V with 10 m connecting lead each, on mounting arm with protective cover. Position and arrangement of the sensor can be adjusted, range can be adjusted up to approx. 1500 mm depending on the arrangement, protective cover Traffic yellow, based on RAL 1023, with reflector.

Control

Possible to connect DAP to

- Dock leveller control 560 S/T/V
- Control DAPC (not possible in combination with wheel-blocking system or wheel chock with sensor)
- Control MWBC

Control DAPC

- Control for DAP, housing IP 65, connecting voltage 110–230 V, 1 phase, 50/60 Hz.

Equipment:

- Connections 230 V AC for interior and exterior warning lights
- Connection of outside warning light 24 V DC possible with additional connection relay
- Connection 230 V AC for inflatable dock seal
- Connection of door / dock leveller release function

Control MWBC

Control for combination of DAP with wheel-blocking system or wheel chock with sensor, housing IP 65, connecting voltage 110–230 V, 1 phase, 50/60 Hz.

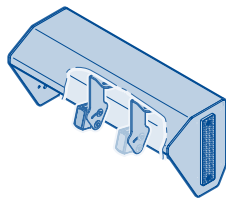
Equipment:

- 5 LED control lights for status and fault reporting
- Key switch to bridge the wheel blocking function in case of swap containers
- Connections 230 V AC for interior, exterior warning lights and for alarm horn
- Connection of outside warning light 24 V DC possible with additional connection relay
- Connection 230 V AC for inflatable dock seal
- Connection of door / dock leveller release function
- Connection for DAP and MWBC / WSPG

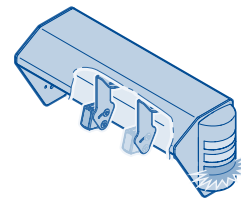
Additionally required

Order separately, if not present:

- External warning light for 1 or 2 photocells
- If there is no visual contact to the outside, an interior yellow warning light is required for "Vehicle has docked" reporting
- "Close" limit switch reporting, e.g. by magnet switch in the door guide, alternatively "dock leveller in home position" position reporting



DAP



DAP with warning light on DAP arm

Docking assistance					€
Docking assistance DAP, for use right or left, incl. fixing material	with 1 photocell for red warning light outside	Standard length 500 mm	Each		777
		Special length 1000 mm*	Each		862
	with 2 photocells for red and yellow traffic light outside	Standard length 500 mm	Each		1112
		Special length 1000 mm*	Each		1200
Control	DAPC for docking assistance DAP		Surcharge		789
	MWBC for combination with the wheel-blocking system or the wheel chock with sensor		Surcharge		978
* Special length 1000 mm required when using buffer brackets BCH 150–520 or mechanical loading platform MRS					
Required equipment				Art. no.	€
LED traffic light for exterior for fitting to facade	Red (230 V / 50 Hz)	For 1 photocell	637534	Surcharge	124
	Red / green (230 V / 50 Hz)	For 1 photocell	637537	Surcharge	208
	Red / green / yellow (230 V / 50 Hz)	For 2 photocells	637573	Surcharge	304
LED traffic light for exterior on DAP arm	Red / yellow / green (24 V DC), including connection relay and 10 m connecting lead	If equipped with only 1 photocell, "yellow" is without function		Surcharge	707
	Red / yellow / green (24 V DC) dock leveller control 560 S/T/V (without connecting relay), incl. 10 m connecting lead	If equipped with only 1 photocell, "yellow" is without function		Surcharge	551
For additional warning lights for connection to dock leveller control 560 S/T/V					see page 21
"Close" limit switch reporting / "dock leveller in home position" position reporting					see page 53
Optional extras				Art. no.	€
LED traffic light for inside	Yellow, 230 V AC		637536	Each	112
Main switch, CEE plug					see page 53

Safety systems

Wheel-blocking system MWB 2

Manual wheel-blocking system MWB 2

System to secure the vehicle against unintentional rolling or creeping due to forklift manoeuvres. Wheel guide with manually operated blocking arm on a sideways shifting carriage, length of working range approx. 2800 mm. Wheel guide protected by concrete block at the front, equipped with maintenance rails for trolleys at the rear. Overall system length approx. 5300 mm. Arrangement to the right viewed from outside; optionally with a mirrored arrangement, e.g. with limited space or left-hand traffic.

Blocking arm on carriage

Rotating blocking arm, height 300 mm up to max. 350 mm above the driveway, range into the roadway 350 mm, horizontal loading up to 115 kN. Operated by ergonomic operating lever with operating instruction.

Carriage with yellow / green control light and sensors for detecting home position, working position and wheel position. Locking / release of the operating lever, coupled to the "Closed" door position (release not possible if door is open).

Control (included in scope of delivery)

Control in semi-housing, IP 65, connecting voltage 230 V, 1 phase, 50 / 60 Hz. Equipment:

- LED control light for status and fault reporting
- Integrated Piezo signal transmitter for warning signal in case of faults
- Key switch to bridge the wheel blocking function

As a standalone system:

- With warning light 24 V for exterior
- No connection of signal transmitters 230 V AC or docking assistance possible.

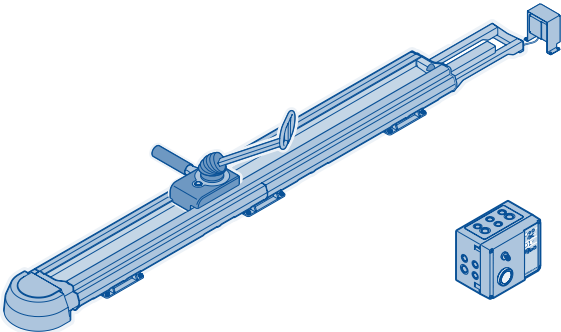
For connection to dock leveller control 560 S / T / V:

- Possible in combination with signal transmitters 230 V AC, docking assistance and enhanced range of functions of the dock leveller control.

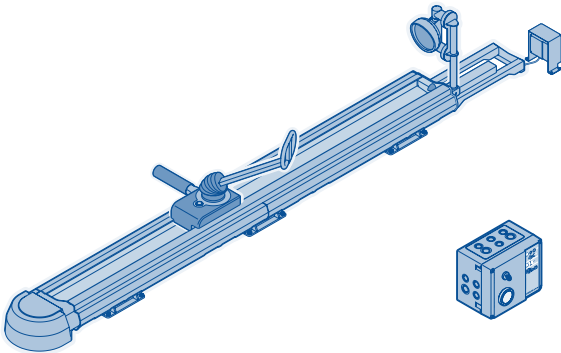
Additionally required

Order separately, if not present:

- "Close" limit switch reporting, e.g. by magnet switch in the door guide, alternatively "dock leveller in home position" position reporting
- Wheel guide for the opposite side, preferably WBM



MWB 2



MWB 2 with warning light on post

Wheel-blocking system			€
Wheel-blocking system MWB 2, right or left, with control in semi-housing			
With LED traffic light red / yellow / green (24 V DC), 1-arm	On post	Each	11290
	For fitting to the facade	Each	10947
Without warning light, for connection to dock leveller control 560 S/T/V (order warning light separately, see page 23)			Each 10752
Required equipment			
“Close” limit switch reporting / “dock leveller in home position” position reporting			see page 53
Wheel guide for the opposite side			see page 49
Optional extras			
Main switch, CEE plug			see page 53

Safety systems

Mechanical wheel-blocking system MWB2 with control MWBC

Manual wheel-blocking system MWB 2

System to secure the vehicle against unintentional rolling or creeping due to forklift manoeuvres.

Wheel guide with manually operated blocking arm on a sideways shifting carriage, length of working range approx. 2800 mm.

Wheel guide protected by concrete block at the front, equipped with maintenance rails for trolleys at the rear. Overall system length approx. 5300 mm. Arrangement to the right viewed from outside; optionally with a mirrored arrangement, e.g. with limited space or left-hand traffic.

Wheel guide protected by concrete block at the front, equipped with maintenance rails for trolleys at the rear. Overall system length approx. 5300 mm. Arrangement to the right viewed from outside; optionally with a mirrored arrangement, e.g. with limited space or left-hand traffic.

Blocking arm on carriage

Rotating blocking arm, height 300 mm up to max. 350 mm above the driveway, range into the roadway 350 mm, horizontal loading up to 115 kN. Operated by ergonomic operating lever with operating instruction.

Carriage with yellow / green control light and sensors for detecting home position, working position and wheel position. Locking / release of the operating lever, coupled to the "Closed" door position (release not possible if door is open).

Control MWBC

Control in housing IP 65, connecting voltage 110–230 V, 1 phase, 50/60 Hz.

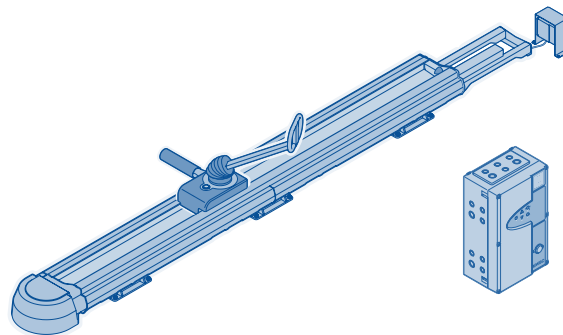
Equipment:

- 5 LED control lights for status and fault reporting
- Key switch to bridge the wheel blocking function
- Connections 230 V AC for interior, exterior warning lights and for alarm horn
- Connection 230 V AC for inflatable dock seal
- Connection of door / dock leveller release function
- Connection for DAP and MWB2

Additionally required

Order separately, if not present:

- Red / yellow / green warning light for outside permitted and for release request
- "Close" limit switch reporting, e.g. by magnet switch in the door guide, alternatively "dock leveller in home position" position reporting
- Wheel guide for the opposite side, preferably WBM

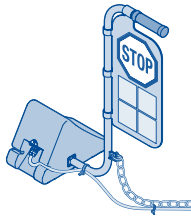


MWB 2 with control MWBC

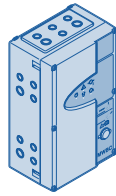
Wheel-blocking system				€
Wheel-blocking system MWB2, right or left, without control			Each	9952
Control MWBC			Surcharge	978
Required equipment			Art. no.	
External LED traffic light	Red / green / yellow (230 V / 50 Hz)	637573	Surcharge	304
"Close" limit switch reporting / "dock leveller in home position" position reporting			see page 53	
Wheel guide for the opposite side			see page 49	
Optional extras			Art. no.	
LED traffic light for inside	Red (230 V / 50 Hz)	637534	Surcharge	124
	Yellow (230 V / 50 Hz)	637536	Surcharge	112
Alarm horn	For warning signal on loss of tyre contact, IP 33, 230 V AC	637197	Surcharge	130
Main switch, CEE plug			see page 53	

Safety systems

Wheel chock with sensor WSPG, more equipment



WSPG



Control MWBC

Wheel chock with sensor					€	
WSPG , robust PU wheel chock with optical sensor and additional integrated position sensor, with strain relief, red / green LED operation indicator, with holder and 7 m chain, connecting lead, including activating kit PR1 Function: door or dock leveller release after applying wheel chock Connection to control for dock leveller or MWBC			6 m coiled cable	Each	1275	
			7.5 m connecting lead	Each	1107	
			14 m connecting lead	Each	1268	
Control MWBC					Surcharge	978
(for MWBC product description, see wheel-blocking system MWB 2 on page 52) Possible equipment and additional functions regarding connection to a dock leveller control:						
External LED traffic light	Red / green / yellow (230 V / 50 Hz)	Signal for docking / undocking permitted / not permitted, remove wheel chock permitted – “Close” limit switch reporting or “dock leveller in home position” position reporting required, see below.	637573	Surcharge	304	
LED traffic light inside	Red (230 V / 50 Hz)	Signal for loading not permitted	637534	Surcharge	124	
	Yellow (230 V / 50 Hz)	Signal for wheel chock applied – loading permitted	637536	Surcharge	112	
Alarm horn	IIP 33 (230 V / 50 Hz)	Warning signal if the wheel chock is removed when this is not permitted	637197	Surcharge	130	
Connection of docking assistance and inflatable dock seal possible						

More equipment		Art. no.		€
Accessories for control	Main switch 230 V, 1-phase, in housing IP 65	637514	Each	56
	CEE plug, 230 V, 1-phase, with 1 m connecting lead	638095	Each	50
Door limit switch reporting	Magnet switch for fitting to the sectional door boom	436339	Each	73
	Magnet switch for fitting to the rolling shutter side guide	637743	Each	63
Limit switch reporting of the operator control (only possible for power-operated door via option relay HOR1-300, travel limit circuit board article no. 637052 or multi-function circuit board article no. 637026), for operator control series 545 and 560 directly via BUS connection – take into account when ordering the operator control				
Dock leveller position reporting	Proximity switch DR – take into account when ordering the dock leveller or retrofitting			

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The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly-specialised factories using state-of-the-art production technologies. Furthermore, our employees work intensively on new products, continual further developments and improvements to details. The results are patents and one-of-a-kind products you can depend on.

