



LANCIER
Hydraulik

GmbH & Co. KG

www.lancier-hydraulik.de

Air Lift Systems



... when it gets tough !

High Pressure Lift Systems

The high-pressure air cushions may be filled with a pressure of 8 bar. They are primarily developed for lifting heavy loads like concrete plates, for the rescue of trapped persons, for moving heavy rocks e.g. at civil engineering works, for opening doors or for moving and mounting heavy machines.

The cushions are made of synthetic rubber reinforced with several aramid layers. The material is extremely robust, oil-resistant and abrasion-proof. The special structure of the surface is outstandingly skid-proof.

The high-pressure air cushions are currently applied with great success at fire departments, civil protection units, in the industry and at mining corporations as well as at military services.







Type	KL1	KL3	KL6	KL11	KL12	KS20	KL24	KL24L	KS29	KL33L	KL40	KS54	KS68
Maximum lift in t	1	3	6	11	12	20	24	24	29	33	40	54	68
Height, min. in mm	22	22	22	25	25	25	25	25	25	25	25	25	25
Height, max. in mm	75	120	165	208	175	280	280	175	353	200	375	460	520
Width in mm	140	200	305	380	350	510	530	300	610	360	680	860	950
Depth in mm	130	255	380	380	560	510	630	1000	610	1150	780	860	950
Air capacity (8 bar) in l	2,7	15,8	39	84	95	208	297	216	390	420	675	1120	1450
Water capacity in l	-	-	-	9,9	11	21,7	33	24	42	35	75	125	161
Weight in kg	0,49	1,35	2,41	4,11	5,68	7,3	9,56	8,43	10,5	11,67	15,26	21,08	26
Order-No.	04000	04001	04002	04003	04004	04005	04006	04007	04008	04009	04010	04011	04012



Several high-pressure air cushions may be connected to each other.



Special features

-  **quick, robust, durable**
-  may be filled with air and water
-  strong: maximum lift up to 68 tons
-  oil-resistant, abrasion-proof
-  skid-proof
-  lightweight and handy











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Low Pressure Air Lift Systems

Large supporting areas provide for low surface pressure thus ensuring a secure and almost non-deforming lifting of even flexible structures (e.g. vehicle roofs, fenders etc.).

Low pressure air cushions from LANCIER Hydraulik are extremely robust and durable. Their neoprene coated surfaces are oilresistant and non-ageing. A special close meshed, tear-proof tissue reinforces the sides additionally. Fixing straps at the top and the bottom allow for a secure placement.

Special features

-  **quick, robust, durable**
-  create spacious heights and working areas
-  strong: maximum lift up to 11,9 tons
-  oil-resistant, abrasion-proof, non-ageing
-  large supporting area, low surface pressure
-  fixing straps
-  Filling pressure 0,5 or 1 bar
-  may be filled also with conventional compressors

Type	46	120	213	A	B	C	D	AK	BK	CK	DK
Maximum lift in t	4	7	7	1,49	2,33	3,35	5,95	2,98	4,65	6,69	11,9
Height, min. in mm	50	50	50	50	50	50	100	50	50	50	100
Height, max. in mm	460	1200	2130	430	590	610	1000	430	590	610	1000
Area dimensions in mm	900x900	1200x1200	1200x1200	ø 610	ø 760	ø 910	ø 1220	ø 610	ø 760	ø 910	ø 1220
Filling pressure in bar	0,5	0,5	0,5	0,5	0,5	0,5	0,5	1,0	1,0	1,0	1,0
Air capacity in l	390	1600	3200	222	450	673	1900	225	620	900	3010
Weight in kg (twin set)				30	34	45	50	30	34	45	50
Order-No.	04013	04014	04015	04016	04017	04018	04019	04020	04021	04022	04023



The controller allows for filling 2 air cushions at the same time.



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Low Pressure Wedge Lift Systems

Low pressure wedge air cushions combine the advantages of high and low pressure cushions. They are extremely flat and can be used in gap widths <10 mm. The lifting height is up to 1200 mm with a maximum power of 10 tons. Due to large supporting areas they provide for low surface pressure thus ensuring a secure and almost non-deforming lifting of even flexible structures.

The delivered controller allows for filling with two gas cylinders at the same time (double filling speed). Of course the cushion may be filled with a compressor too.

Special feature: the controller may be used for filling high-pressure cushions also.









Maximum lift	5 t
Filling pressure max.	1,0 bar
Height min.	8 mm
Height max.	400 mm
Width	700 mm
Depth	900 mm
Weight	8,0 kg
Order-No.	04024

Maximum lift	10 t
Filling pressure max.	0,7 bar
Height min.	8 mm
Height max.	1200 mm
Width	1130 mm
Depth	1300 mm
Weight	27,0 kg
Order-No.	04025



Special features

-  **quick, robust, durable**
-  strong: maximum lift up to 10 tons
-  for extra narrow application areas
-  oil-resistant, abrasion-proof
-  skid-proof
-  lightweight and handy

Your qualified LANCIER Hydraulik partner

Subject to alterations, errors excepted.