

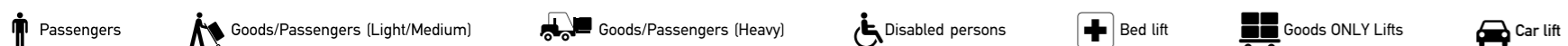


KLEEMANN Engineering

CATEGORY	MRL SOLUTIONS							REDUCED PIT/HEADROOM SOLUTIONS				SPECIAL SOLUTIONS			FREIGHT SOLUTIONS				
	Ideal for existing buildings							Unique / Fully certified products											
	Traction			Hydraulic				Traction		Hydraulic		Traction	Hydraulic		Traction	Hydraulic			
PRODUCT NAME	Atlas 1:1	Atlas 2:1	Atlas Gigas	Atlas Super Gigas	MistRaL	Flexy Lift MRL	Arion	Atlas 2:1 RPH	MaisonLIFT Basic	MaisonLIFT Plus	Flexy Lift MR	MegaSpace	Earthquake resistant	Earthquake resistant	Dumbwaiter	Compact			
PRODUCT																			
USE																			
ADVANTAGES	Premium ride quality through state of the art technology					Best value for money	Premium ride quality (electr.valve)	Best value for money	Premium ride quality	Low noise & vibration	Premium ride quality (electr.valve)	Premium ride quality (electr.valve)	Max. area / load ratio	Innovation award winner. Patented	Innovation award winner. Patented	Ideal for malls & restaurants	Ideal for warehouses		
	High energy efficiency (especially for high-rise buildings)					Up to 3 car doors	1550mm wide shaft for 1100mm wide car	Up to 3 car doors	High energy efficiency	Best value for money	Stylish car & shaft	1550mm wide shaft for 1100mm wide car	Excellent value for money	Pre-earthquake evacuation(****)	Pre-earthquake evacuation(****)	Low noise & vibrations	Low noise & vibrations		
	Up to 5 tons					Manual/Automatic Evacuation	Insensitive to load & temperature	Out-of-shaft adjustments	PD. 370mm H.2900mm	PD. 80mm H.2300mm	PD. 200mm/180mm H.2450mm	PD. 350mm H.2600mm	Reduced power consumption	Maximum safety	Maximum safety	High hygiene standards	Up to 2 tons(****)		
	No exquisite materials (e.g. belts etc) used					Comfortable ride quality	High energy efficiency	Patented technology	Safety standards prEN81.A3/prEN81.21	Safety standards prEN81.41	Safety standards prEN81.21	Safety standards prEN81.21	Absolute stability during loading	Field tested	Field tested	Safety standards EN81.3	Safety standards prEN81.41		
GENERAL SPECS	Suspension		1:1	2:1	2:1	4:1	1:1	1:2	1:2	2:1	1:2	1:2	2.1 (max 2500kg) / 4.1	1.1 (max 1000kg) / 2.1	1:2	1:1	1:2		
	Machine Room		MRL				MRL		MRL	MRL (with controller cabinet)			MR (above)		MR (anywhere near the shaft)	MRL (with controller cabinet)	MRL (with controller cabinet)		
	Directive: Lifts (95/16) or Machinery (2006/42)		Lifts (95/16)					Lifts (95/16)		Lifts (95/16)	Machinery (2006/42)	Lifts (95/16)		Lifts (95/16)		Lifts (95/16)	Machinery (2006/42)	Machinery (2006/42)	
TECHNICAL SPECS (*)	Maximum Car Travel [m]		70	45	45	45	45	25 (450kg) / 22 (630kg) / 30 (1000kg)	25	45	15	15	25 (450kg) / 22 (630kg) / 30 (1000kg)	45	45	30	35	11.5	
	Maximum Number of Stops		24	16	16	16	16	10 (450kg) / 8 (630kg) / 11 (1000kg)	9	16	4	6	9 (450kg) / 8 (630kg) / 11 (1000kg)	16	16	11	8	4	
	Maximum Car Speed [m/s]		1.6	1.6	1.6	1.0	1.0	1.0	0.99	1.0	0.15	0.52	1.0	1.0 (max 2500kg) / 0.80	1.6	0.99	0.37 (0.25 or 0.48 upon request)	0.15	
	Rated Load [range in kg]		375-1050	375-1000	1275-2500	3000-5000	300-630	450-1000	450-1000	300-750	200-450	180-630	450-1000	1000-3500	450-1250	300-1000	50-200	200-2000	
	Motor type (Traction ONLY) Valve Block (Hydraulic ONLY)		Gearless VVVF					Geared AC2 or VVVF	Electronic	Electrohydraulic	Gearless VVVF	Electrohydraulic	Electronic or Electrohydraulic	Electronic	Geared or Gearless VVVF	Geared or Gearless VVVF	Electronic or Electrohydraulic	Geared AC1	Electrohydraulic
	Shaft Structure: Aluminium / Steel		not available / optional					not available / optional		not available / optional	optional / optional		not available / optional		not available / optional		not available / optional	not available / optional	not available / optional
	Pit depth [mm]		1300	1200 (max u=1.0mps) / 1300	1200 (max u=1.0mps) / 1350	1400	1200	900 (max 630kg) / 1000	1100 (max 630kg) / 1400	370	80	200 (max 450kg) / 180 (525/630 kg)	350 (max 630kg) / 400	1000 (max 1000kg) / 1400	1100 (max u=1.0mps) / 1200	1000	700	220-450	
	Clear Headroom [mm]		3600 (max u=1.0mps) / 3700	3450 (max u=1.0mps) / 3600	3450 (max u=1.0mps) / 3600 (**)	3800	3600	2600	3400	2900	2300	2450	2600	3600 (max 1000kg) / 3800	3450 (max u=1.0mps) / 3600	3500	1950	2200-2260	
Maximum Car Entrances		3	2	2	2	3	3	3	2	3	3	3	2	2	3	3	3		

Also, high-rise / high-speed TRACTION solutions and HYDRAULIC solutions for up to 30 tons

4 weeks ex-Works Delivery for ALL KLEEMANN products(****) - Easy & fast installation - Fully customised solutions



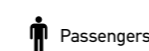
(*) Maximum car travel, number of stops & car speed may exceed the respective figures. Contact us for further details.
 (**) According to EN81.1. Also available with reduced headroom [3000 (max u=1.0mps) / 3200mm]. Contact us for further details.
 (***) Special solutions & Atlas Super Gigas MRL excluded.
 (****) Under conditions



KLEEMANN Engineering

CATEGORY	ESCALATORS & MOVING WALKS				
	Escalators		Moving Walks		
PRODUCT NAME					
PRODUCT					
USE					
ADVANTAGES	Longterm experience /Installed units all over the world				
	Readily available spare parts				
	Fast ex-works delivery				
	Robust construction of high standards				
GENERAL SPECS	Type	KEC Commercial	KEH Heavy Duty	KTC Commercial	KTH - KTW Heavy Duty
	Installation	Indoor / Outdoor			
	Max. Workload [hours per day]	16-20	20-24	16-20	20-24
	Transportation ability [passengers/hour]	11700	11700	9000	9000-13500
	Machine Room	MRL (inside the frame)			
TECHNICAL SPECS	Standard	EN 115			
	Maximum vertical travel [m]	2-7.5	2-25	2-8	0-8
	Speed [m/s]	0.50	0.65	0.50	0.50
	Inclination [degrees]	30 or 35 degrees	30 or 35 degrees	10 or 11 or 12 degrees	0-6 or 10 or 11 or 12 degrees
	Pallet width [mm]	600/800/1000	600/800/1000	800/1000	800/1000/1200/1400
SPECIAL FEATURES	Motor type	AC1 or VVVF			
	Connection with a building management system (BMS)	optional			
	Firefighting system	optional			
	Balustrade material	Safety glass	Safety glass/Stainless Steel	Safety glass	Safety glass
	Start/Stop by:	Photocell/Contact mats/Difuse sensor			
	LED Lighting	optional			
Galvanised frame	optional				
Finishing	Glass or St/St or Painted or Galvanised Steel Sheets				

Safe solutions for demanding buildings





KLEEMANN Engineering

CATEGORY		PARKING SYSTEMS	
PRODUCT NAME		KleemannPark KPS	KleemannPark KTS
PRODUCT			
USE			+
ADVANTAGES		Best value for money	Excellent value for money
		Robust & Reliable	Small shaft dimensions
		Premium technical support	Operation with attendant
		Fully Certified / CE mark	Fully Certified / CE mark
GENERAL SPECS	Type	Mechanical car park system	Vehicle lifting system
	Installation	Indoor / Outdoor	
	Mechanism	Hydraulic	
	Number of Vehicles	2 or 4	1
	Machine room	Minimal space requirements	
TECHNICAL SPECS	Standard	EN 14010	Machinery Directive 2006/42
	Rated Load [kg]	4000 (2 vehicles) / 8000 (4 vehicles)	2200
	Travel [m]	1.9	2-12
	Speed [m/s]	0.10	0.15
	Pit Depth [mm]	1750 / 1900 / 2000	400
SPECIAL FEATURES	Headroom [mm]	3250 / 3400 / 3500	2400-2700
	Valve Block	Electro-hydraulic	
	Operation Mode	Constant pressure button (Hold to run)	Automatic (outside call) / Hold to run operation (platform)
	Doors	not available	Roller shutters with pressure detect sensors
	Floor	Galvanised steel sheets	Nonskid RAL painted steel sheets
	Safety sensors	Motion	Hold to run
Overload		Standard	
Remote control	not available	optional	

The ideal solutions for maximum utilisation of parking spaces

Passengers Car lift

KLEEMANN SOLUTIONS

COMPLETE LIFT SYSTEMS

- Machine Room Hydraulic/Traction Systems
- Machine Room Less Hydraulic/Traction Systems
- MaisonLift
- Earthquake Resistant Lift
- Compact, Dumbwaiter

LIFT ASSEMBLIES

- Cabins
 - Passenger Cabins
 - Freight/Goods Cabins
 - Firefighting Cabins
 - Panoramic Cabins
- Doors
 - Automatic Doors with VVVF Operator
 - Folding Doors
 - Semi-automatic Landing Doors
 - Circular Doors
 - Modernization Doors
- Electronics
 - Controllers
 - Car & Landing Operating Panels
 - Pre-wiring
- Hydraulic Elevation Systems
 - Piston & Cylinder Assembly
 - Power Units
 - Car Frames
 - Guide Rails
 - Wire Ropes
 - Hydraulic Oil
- Traction Elevation Systems
 - Traction Machines
 - Car Slings
 - Counterweight Slings
 - Governors
 - Guide Rails
 - Wire Ropes

COMPLETE ELEVATION SYSTEMS

- KleemannPark
 - Parking and Car Lifting Systems
- Freestair
 - Chair or Platform Stair Lifting Systems
- Escalators and Moving Walks
- Stairlifts
 - chair type
 - platform type

SHAFT STRUCTURES

- Steel
- Aluminum



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KLEEMANN Engineering



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