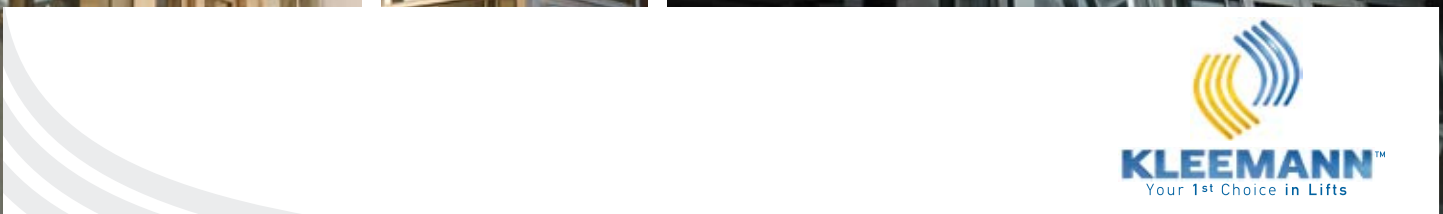



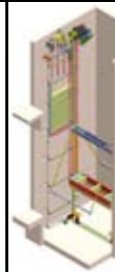
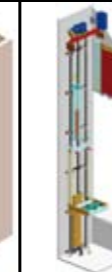


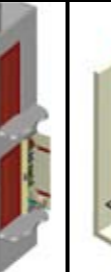


























Product Chart



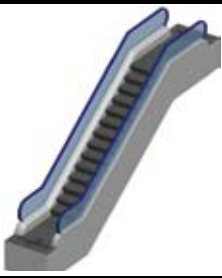


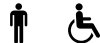
PRODUCT CHART

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	Speed 0.63m/sec	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: 400mm H:2900mm	PD: 80mm H:2300mm	PD: 200mm 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	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)	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	6	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	0.63	1.0	1.0 (max 2500kg) / 0.80	1.6	0.99	0.32 (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	300-630	200-450	180-450	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 AC2 or 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	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	400	80	200	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

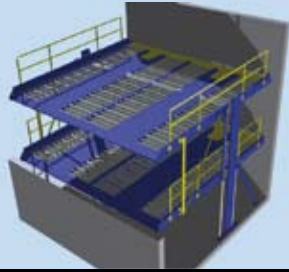




(*) Maximum car travel, number of stops & car speed may exceed the respective figures. Contact us for further details.
 (**) According to EN81.1. Also available with reduced headroom (3000 (max u=1.0mps) / 3200mm). Contact us for further details.
 (***) Special solutions & Atlas Super Gigas MRL excluded.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

PRODUCT CHART

CATEGORY		ESCALATORS & MOVING WALKS			
PRODUCT NAME		Escalators		Moving Walks	
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	KEH - 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)			
	Standard	EN 115			
TECHNICAL SPECS	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
	Motor type	AC1 or VVVF			
SPECIAL FEATURES	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

PRODUCT CHART

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	MRL (with controller cabinet)		
	Standard	EN 14010	Machinery Directive 2006/42	
TECHNICAL SPECS	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	
	Headroom [mm]	3250 / 3400 / 3500	2500	
SPECIAL FEATURES	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	Nonskid galvanized steel sheets		
	Safety sensors	Motion	Hold to run	Hold to run / Light Curtains (2 pcs)
		Overload	Standard	
	Remote control	not available	optional	

The ideal solutions for maximum utilisation of parking spaces

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