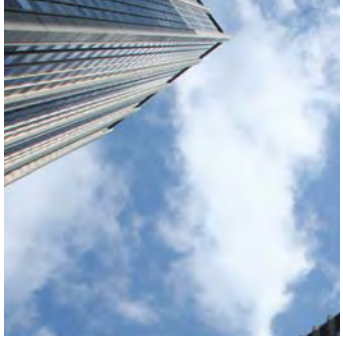
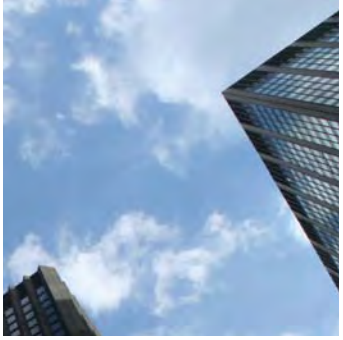
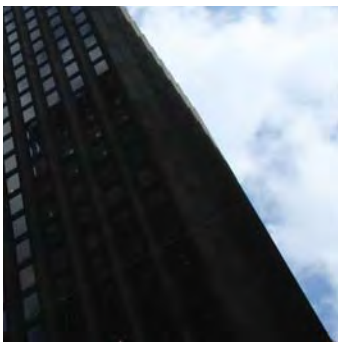






COMPLETE ELEVATOR SOLUTIONS

KINETEK®

Technology in Motion

Contents

Kinetek provides complete elevator packages for machine room and machine room-less applications. These open architecture solutions provide customers with the most innovative, highest performing and most cost effective products in the industry.

The Kinetek Advantage

Driven by a market need for custom-tailored elevator packages, Kinetek's Elevator & Escalator Solutions Group (EESG) provides flexible elevator designs that will fit into a wide range of hoistways — whether machine room-less or overhead traction. Kinetek provides the optimal solution for any new construction or modernization project.

From controls and machines to cabs and fixtures, Kinetek provides you with many design options. Drawing on the unique capabilities of our U.S. and Chinese design centers, we take full advantage of precise engineering coupled to efficient manufacturing expertise. Proven engineering strength, global sourcing, and field-tested quality, along with our willingness to accept challenging requirements, set us apart from the competition.

Over the past decade, Kinetek laid the groundwork for today's product offerings by combining the global leadership of our diverse operating companies, including Motion Control Engineering (MCE), Imperial Electric, Kinetek De Sheng (KDS), and Zhongxiu Kinetek (ZXK) into one innovative and comprehensive team — Kinetek's Elevator & Escalator Solutions Group.

Kinetek takes pride in being the leading open architecture provider in the elevator industry. Equipment, installation, and service choices are made by building owners and their representatives. Together, we can provide cost-effective, high quality solutions that will return satisfaction and the knowledge of a job well done over years of service.

Kinetek's Elevator & Escalator Solutions Group is part of Kinetek, a privately-held global manufacturing company with 28 facilities in North America, Europe and Asia. Kinetek companies hold market leading positions in elevator/escalator, commercial floor care, material handling/aerial lift, golf/utility vehicle, medical, renewable energy and commercial food equipment markets.

Kinetek Elevator Packages

Kinetek MRL and overhead traction elevator packages are designed to provide independent and OEM elevator contractors with reliable, turn-key, custom solutions for any modernization or new construction project.

At the core of our packages are the most sophisticated open architecture controllers, machines and peripherals in the industry. Couple these with the highest quality cabs and entrances, surfaces and fixtures available, and Kinetek Elevator Packages will meet the expectations of the most demanding customers.

Kinetek Elevator Packages

With design centers on two continents, we have the advantage of understanding the elevator marketplace across a very broad perspective. Our elevator packages reflect this flexibility:

Compact MRLs — 350 to 1600 kg loads at speeds to 2.0 meters per second. Conventional and cantilever designs available. (Pages 3, 4, and 5)

Expanded MRLs — Loads up to 2000 kg (2:1 roping) or 2100 to 3500 kg (4:1 roping). Conventional design. (Page 6)

High Speed / High Rise — Speeds up to 6.0 meters per second. Conventional, overhead machine room installations. (Page 7)

Vehicle Lift Packages — Hydraulic or traction, speeds to 0.75 m/s. (Pages 8 and 9)

Hydraulics — Hydraulic installations. Traditional or roped.

Escalators — Complete escalator packages with direct across the line or sophisticated, VVVF drive controllers. (Pages 10 and 11)

People Movers — Complete people mover packages with direct across the line or sophisticated, VVVF drive controllers. (Pages 12 and 13)

Elevator Package Inclusions

Controls — iControl, ZXK 3200, ZXK 3000, Motion 4000 and Motion 4000MRL.

Machines — Kinetek permanent magnet AC gearless for MRL or overhead machine room installations.

Safety components — Governor and tension sheave/weight, safeties, safety switches.

Door operators — From Kinetek or selected manufacturers.

Cabs, doors and entrances — Precision steel construction.

Surfaces — Traditional horizontal, vertical, or mixed panel interiors or your choice of car interior providers.

Fixtures — Quality Kinetek car and hall fixtures, or customer specified.

Rail components — Rails, fishplates, brackets, clips and hardware as required, sized for application.

Rope — Industry standard, traction steel wire rope.

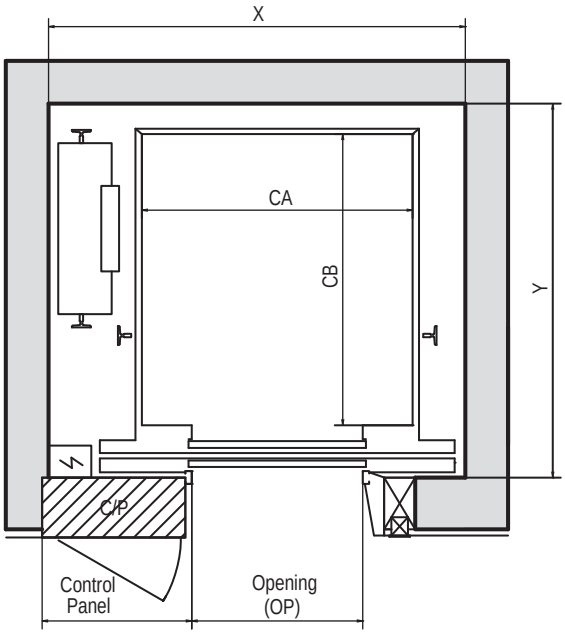
Counterweight components — Complete with frame, fillers, roller guides, rails. All required hardware.

Traveler/hoistway cables — Pre-cut to required lengths. Hangers and hardware as required.

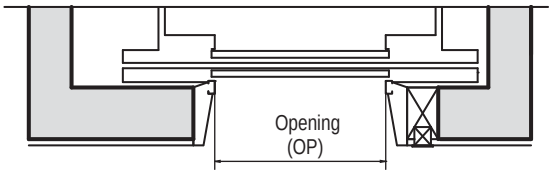
Hardware — All nuts, bolts, washers and brackets per complete package installation.

Kinetek Support — One source for complete package support.

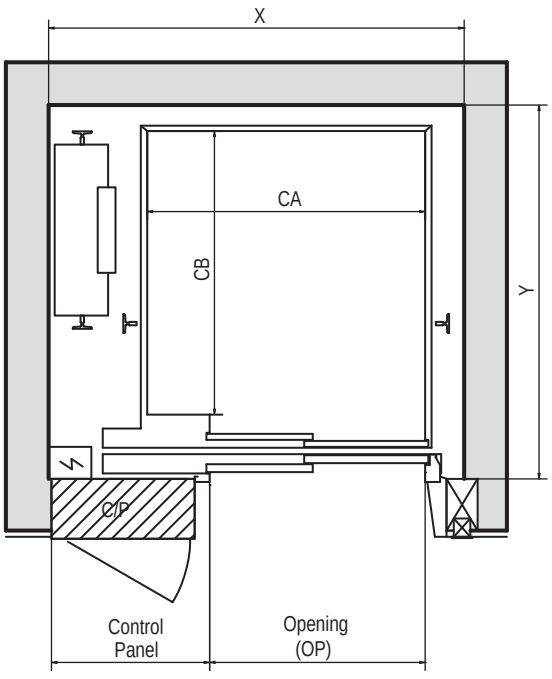
PLAN OF HOISTWAY



Top Floor (with control panel)
CENTER OPENING

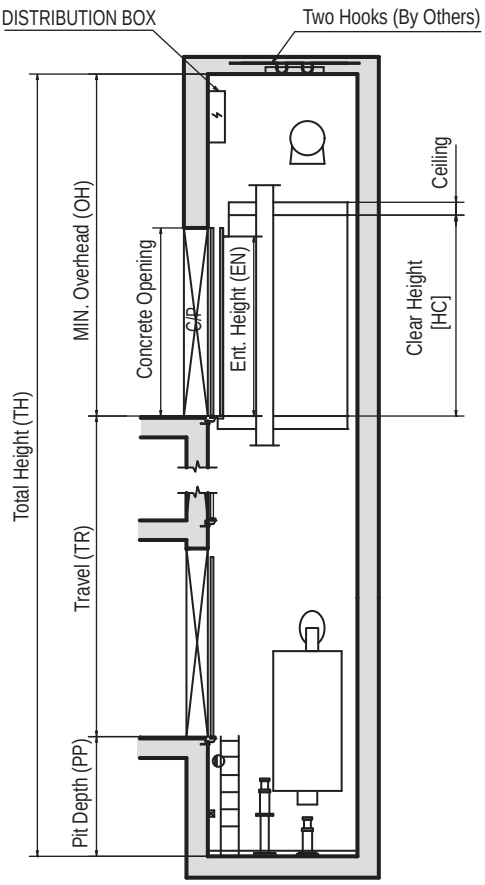


OTHER FLOORS



Top Floor (with control panel)
SIDE OPENING

SECTION OF HOISTWAY



CENTER OPENING STANDARD DIMENSIONS (units: mm)					
Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
550	7	0.5/1.0/1.5	800 (CO)	1150x1300	1750x1650
630	8	0.5/1.0/1.5	800 (CO)	1150x1400	1750x1750
800	10	0.5/1.0/1.5/1.75	900 (CO)	1400x1450	2000x1800
1000	13	0.5/1.0/1.5/1.75	900 (CO)	1550x1500	2150x1850

SIDE OPENING STANDARD DIMENSIONS (units: mm)					
Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
320	4	0.5/1.0/1.5	800 (SO)	900x1025	1500x1500
400	5	0.5/1.0/1.5	800 (SO)	1000x1100	1600x1500
450	6	0.5/1.0/1.5	800 (SO)	1100x1150	1650x1550
550	7	0.5/1.0/1.5	800 (SO)	1100x1360	1650x1750
630	8	0.5/1.0/1.5	900 (SO)	1100x1400	1650x1800
800	10	0.5/1.0/1.5/1.75	900 (SO)	1400x1500	2000x1950
1000	13	0.5/1.0/1.5/1.75	1000 (SO)	1100x2100	1650x2500

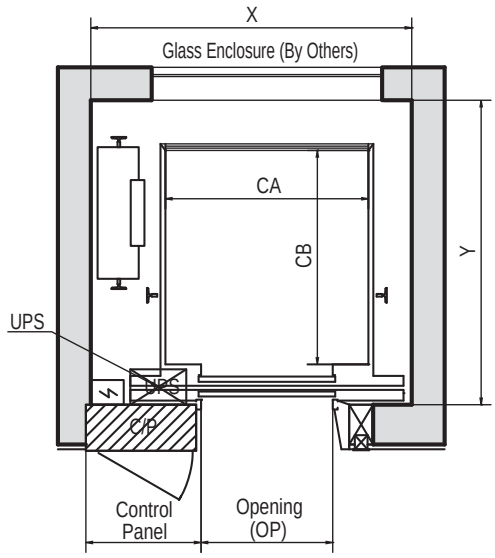
Speed m/s	Min. Overhead OH (mm)	Min. Pit PP (mm)	Max Travel (m)
0.5	3600	1155	25
1.0	3600	1155	45
1.5	3850	1550	65
1.75	3900	1600	75

Note: 1). HC=2200; 2). For P13 capacity, if decoration weight greater than 200 kg, increase pit depth 100mm.

Compact MRLs. Type I and II Observation Cars

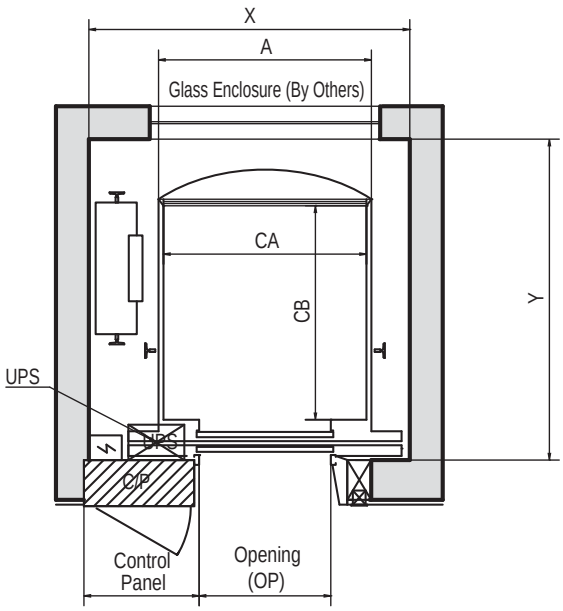
PLAN OF HOISTWAY

TYPE I



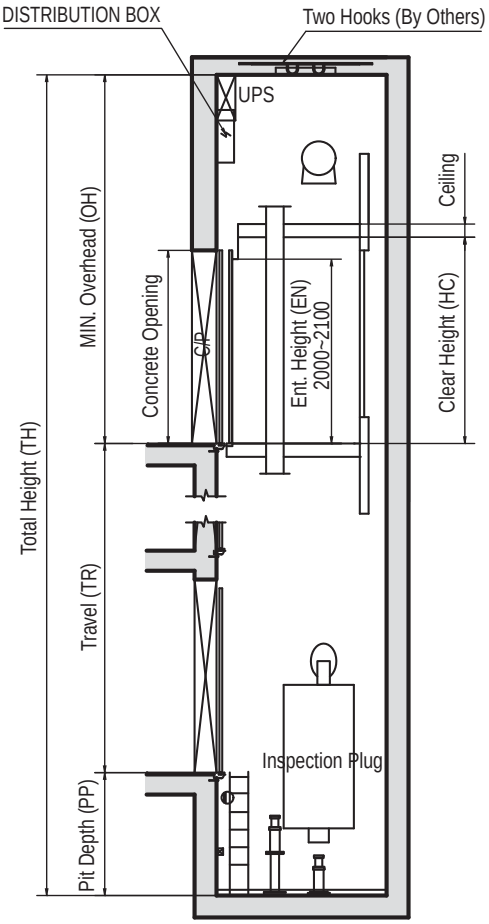
PLAN OF HOISTWAY

TYPE II



Top Floor (with control panel)

SECTION OF HOISTWAY



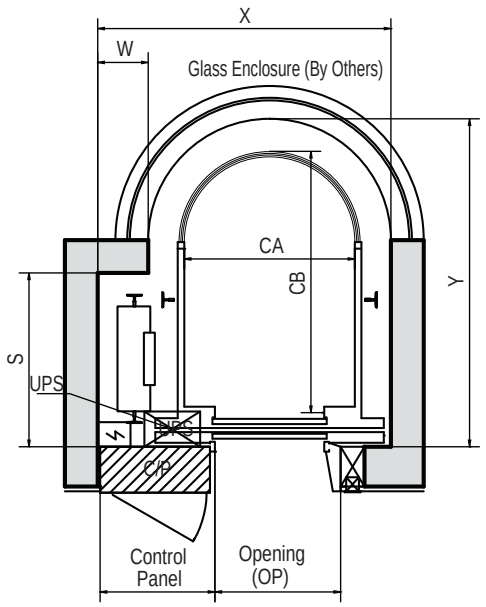
CENTER OPENING STANDARD DIMENSIONS (units: mm)						
Cage	Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
	KG	Persons			CA x CB	X x Y
I	630	8	0.5/1.0	700 (CO) 800 (CO)	1100x1400	1850x1950 1950x1950
	800	11	0.5/1.0/1.5/1.75	800 (CO)	1300x1470	2050x2000
	1000	13	0.5/1.0/1.5/1.75	900 (CO)	1400x1550	2250x2100
II	630	8	0.5/1.0	700 (CO) 800 (CO)	1100x1400	1850x1950 1950x1950
	800	11	0.5/1.0/1.5/1.75	800 (CO)	1300x1470	2050x2200
	1000	13	0.5/1.0/1.5/1.75	900 (CO)	1400x1550	2250x2100

Speed m/s	Min. Overhead OH (mm)	Min. Pit PP (mm)	Max Travel (m)
0.5	4200	1800	25
1.0	4200	1800	45
1.5	4300	1900	65
1.75	4350	2000	75

Note: HC = 2350

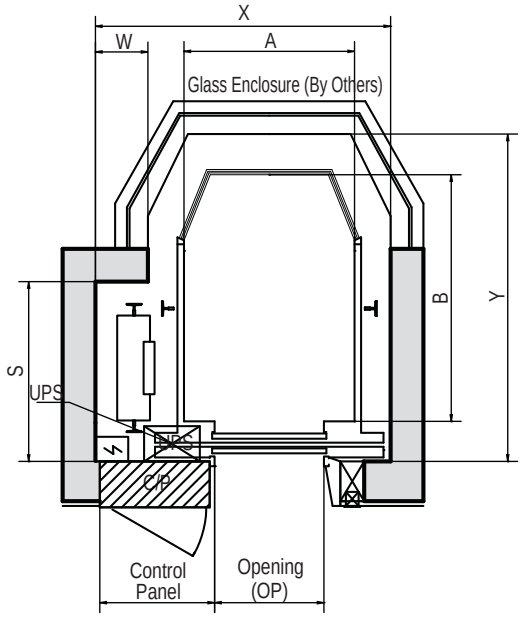
PLAN OF HOISTWAY

TYPE III



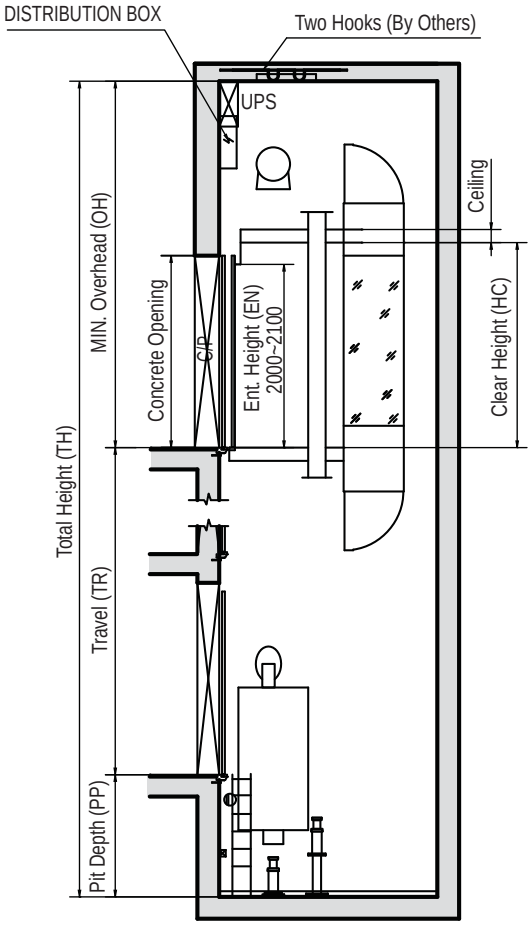
PLAN OF HOISTWAY

TYPE IV



Top Floor (with control panel)

SECTION OF HOISTWAY

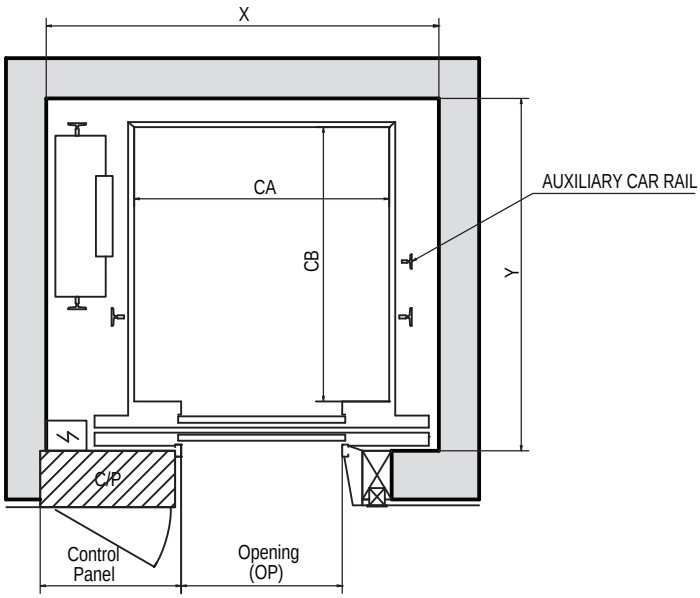


CENTER OPENING STANDARD DIMENSIONS (units: mm)								
Cage	Capacity		Speed m/s	Clear Opening	Car Inside	Hoistway		
	KG	Persons			CA x CB	X x Y	S	W
III	800	11	0.5/1.0/1.5/1.75	800 (CO)	1300x1710	2200x2250	1250	440
	1000	13	0.5/1.0 1.5/1.75	800 (CO)	1300x1950	2240x2500	1325	390
			0.5/1.0 1.5/1.75	850 (CO)	1350x1900	2300x2450	1250	390
IV	800	11	0.5/1.0/1.5/1.75	800 (CO)	1300x1600	2200x2150	1200	440
	1000	13	0.5/1.0	800 (CO)	1300x1880	2240x2450	1325	390
			1.5/1.75					
			0.5/1.0	850 (CO)	1350x1830	2300x2400	1250	390
			1.5/1.75					

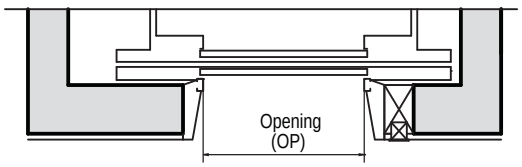
Capacity (kg)	Speed m/s	Min. Overhead OH (mm)	Min. Pit PP (mm)	Max Travel (m)
800	0.5	4600	2000	25
	1.0	4600	2000	45
	1.5	4700	2100	65
	1.75	4750	2200	75
1000	0.5	4200	2000	25
	1.0	4200	2000	45
	1.5	4300	2100	65
	1.75	4350	2200	75

Note: HC = 2350

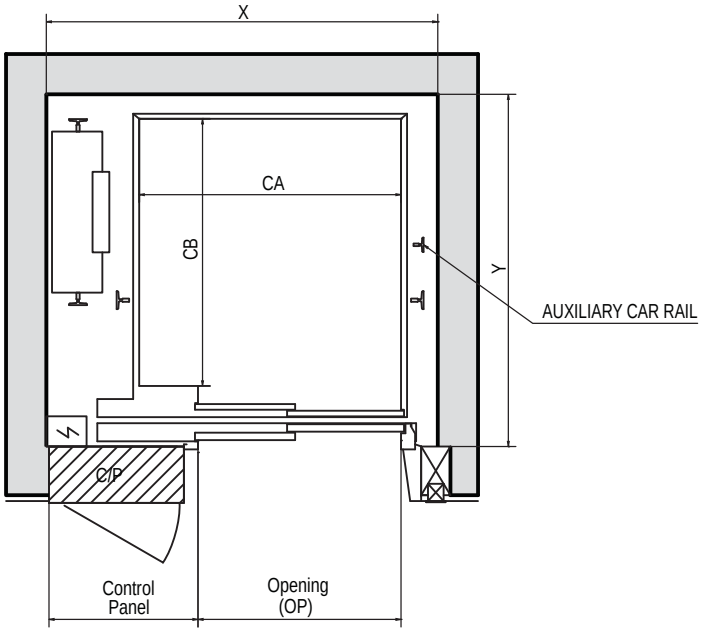
PLAN OF HOISTWAY



Top Floor (with control panel)
CENTER OPENING

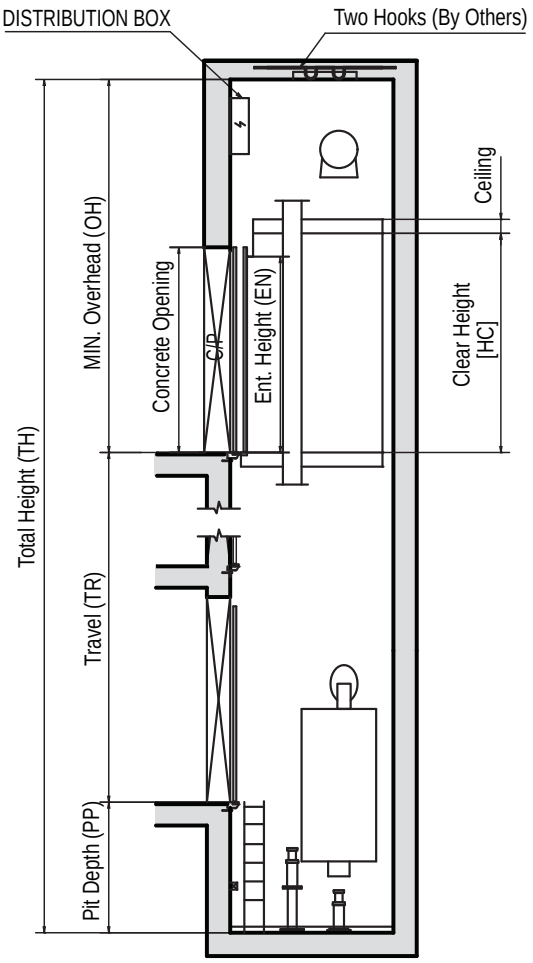


OTHER FLOORS



Top Floor (with control panel)
SIDE OPENING

SECTION OF HOISTWAY



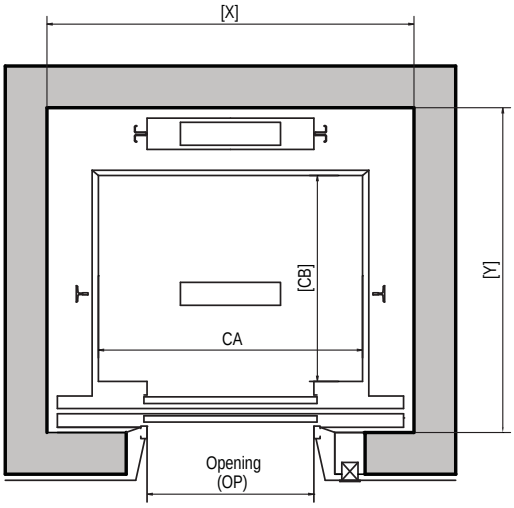
CENTER OPENING STANDARD DIMENSIONS (units: mm)					
Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
1150	15	0.5/1.0/1.5/1.75	1000 (CO)	1650x1650	2500x2050
1350	18	0.5/1.0/1.5/1.75	1000 (CO)	1700x1810	2600x2400
1600	21	0.5/1.0/1.5/1.75	1100 (CO)	1800x1950	2700x2500
1800	24	0.5/1.0/1.5/1.75	1100 (CO)	1800x2100	2700x2500
2000	26	0.5/1.0/1.5/1.75	1200 (CO)	2000x2100	2900x2500

SIDE OPENING STANDARD DIMENSIONS (units: mm)					
Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
1350	18	0.5/1.0/1.5/1.75	1200 (SO)	1800x2350	2200x2850
1600	21	0.5/1.0/1.5/1.75	1200 (SO)	1500x2350	2400x2850
1800	24	0.5/1.0/1.5/1.75	1300 (SO)	1600x2350	2500x2850
2000	26	0.5/1.0/1.5/1.75	1400 (SO)	1750x2350	2650x2850

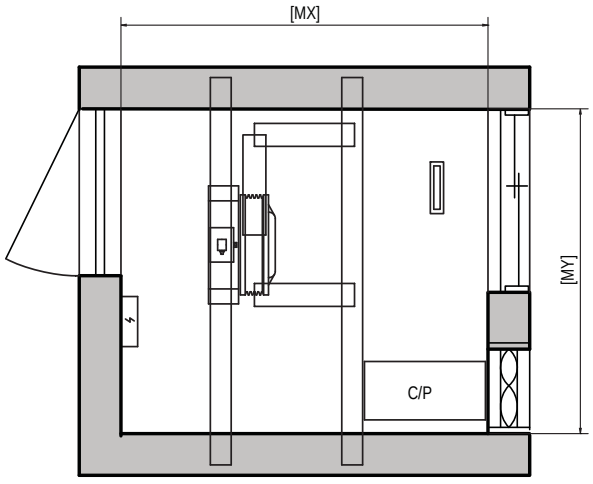
Speed m/s	Min. Overhead OH (mm)	Min. Pit PP (mm)	Max Travel (m)
0.5	3800	1400	25
1.0	3900	1400	45
1.5	4000	1550	65
1.75	4050	1600	75

Note: HC = 2350

PLAN OF HOISTWAY

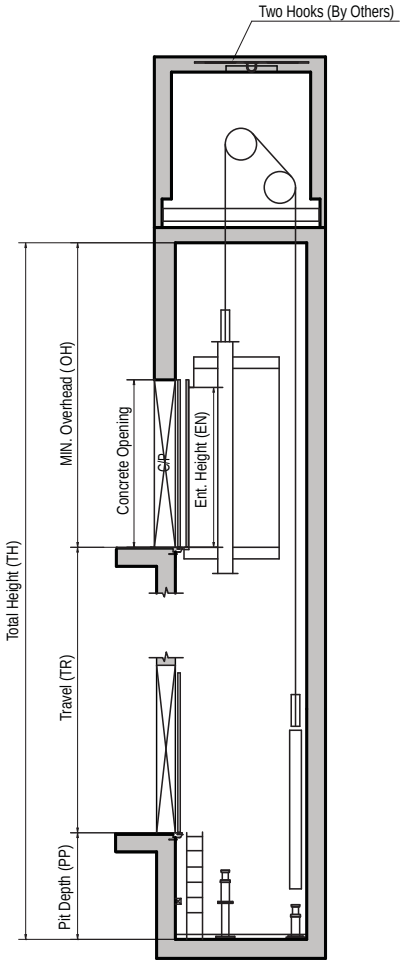


PIT PLAN



OVERHEAD PLAN

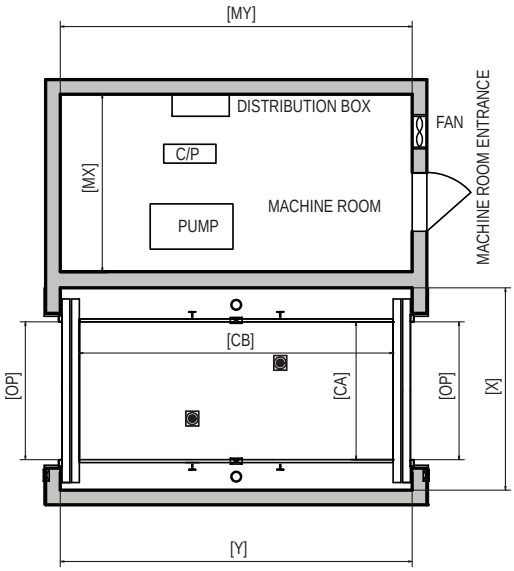
SECTION OF HOISTWAY

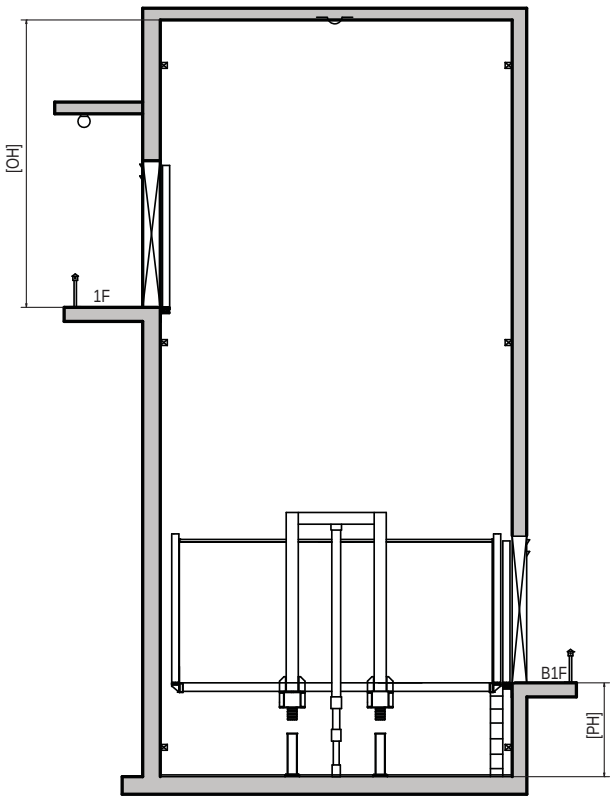


STANDARD DIMENSIONS (Center Opening)					
Capacity		Speed m/s	Max Clear Opening	Car Inside	Hoistway
KG	Persons			CA x CB	X x Y
630	8	1.0/1.5/1.75	800	1400x1100	1800x1750
800	10	1.0/1.5/1.75	800	1400x1350	1800x2000
900	12	1.0/1.5/1.75	900	1600x1350	2050x2000
1000	13	1.0/1.5/1.75	900	1600x1500	2050x2150
1150	15	1.0/1.5/1.75	1000	1800x1500	2350x2280
1350	18	1.0/1.5/1.75	1000	1800x1700	2350x2480
1600	21	1.0/1.5/1.75	1000	2000x1750	2550x2530
800	10	2.0	800	1400x1350	2000x2185
900	12	2.0	900	1600x1350	2300x2200
1000	13	2.0	900	1600x1500	2300x2350
1150	15	2.0	1000	1800x1500	2300x2350
1350	18	2.0	1000	1800x1700	2500x2550
1600	21	2.0	1000	2000x1750	2700x2600

Speed m/s	Min. Overhead OH (mm)	Min. Pit PP (mm)	MR Height MH (mm)
1.0	4300	1400	2200
1.5	4500	1600	2200
1.75	4600	1700	2200
2.0	4800	2100	2200

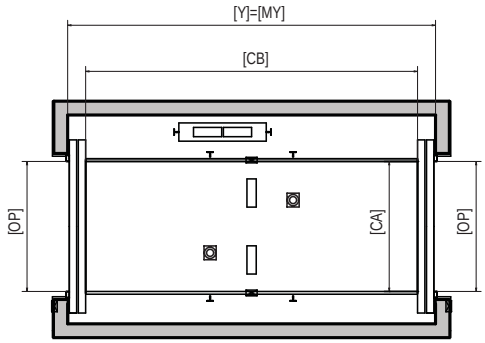
HYDRAULIC VEHICLE LIFT

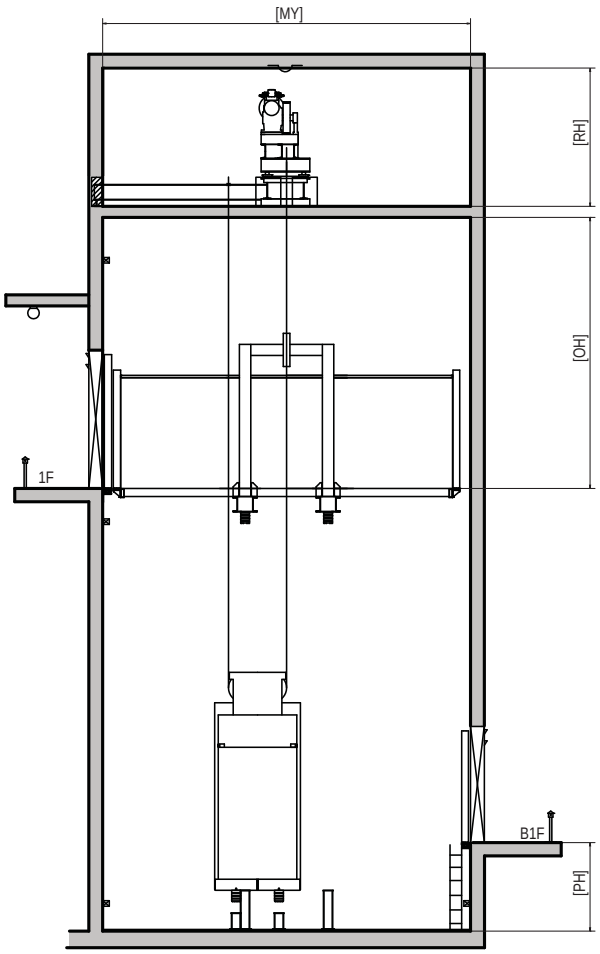




TRACTION VEHICLE LIFT

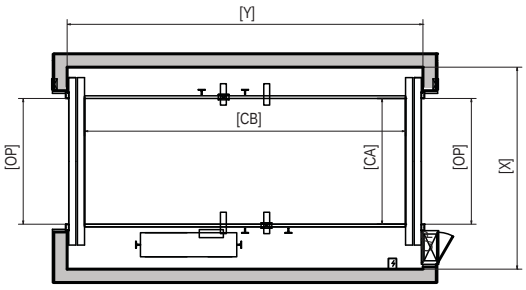
Machine Room

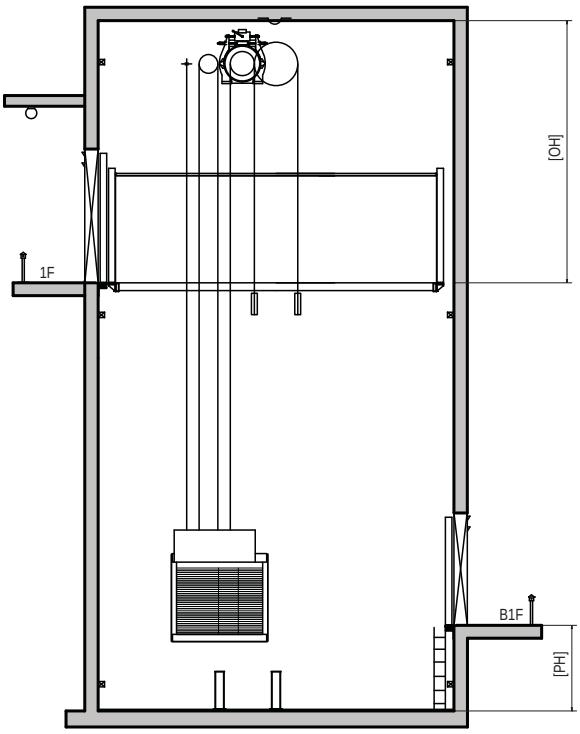




TRACTION VEHICLE LIFT

Machine Room-Less





SPECIFICATIONS

CENTER OPENING STANDARD AREA DIMENSIONS (units: mm)					
Type	Specification	Clear Opening	Car Interior	Hoistway	Machine Room
		OP	CA x CB	X x Y	MX x MY
Hydraulic	A2500-C030/45	2350	2350 x 5310	3450 x 5960	2500 x 2800
	A3000-C030/45	2400	2400 x 6250	3550 x 6900	2500 x 2800
	A3500-C030/45	2750	2750 x 6350	3950 x 7000	2500 x 2800
Traction Machine Room	A2500-C030/45	2350	2350 x 5310	3775 x 5960	3775 x 5960
	A3000-C030/45	2400	2400 x 6250	3825 x 6900	3825 x 6900
	A3500-C030/45	2750	2750 x 6350	4200 x 7000	4200 x 7000
Traction Machine Room-Less	A2500-C030/45	2350	2350 x 5310	3775 x 5960	
	A3000-C030/45	2400	2400 x 6250	3825 x 6900	
	A3500-C030/45	2750	2750 x 6350	4200 x 7000	

PERFORMANCE AND VERTICAL DIMENSIONS (units: mm)					
Type	Speed m/s	Overhead	Pit Depth	Machine Room Height	Car Height
		OH	PH		
Hydraulic C030	0.5	3400	1250	2000	2000
Hydraulic C045	0.75	3400	1250	2000	2000
Traction MR C030	0.5	4400	1200	2400	2000
Traction MR C045	0.75	4400	1200	2400	2000
Traction MRL C030	0.5	3900	1400		2000
Traction MRL C045	0.75	3900	1400		2000

Ceiling	Painted steel sheet
Car Wall	Painted steel sheet
Flooring	Checkered steel sheet
Car Doors	-
Lighting	Semi-indirect

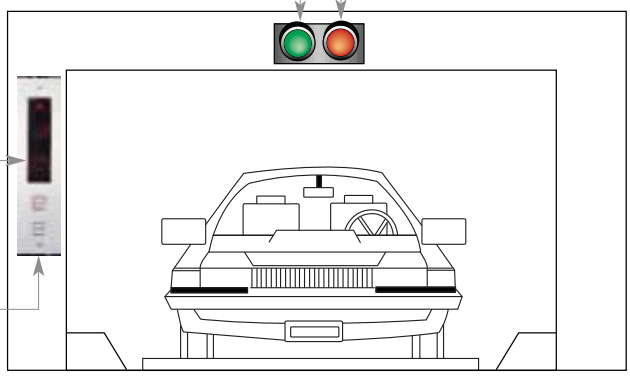
Signal Provisions

1. Indicator lamp (green)
   Lights to signal OK to enter when the car is empty and the doors are fully open.

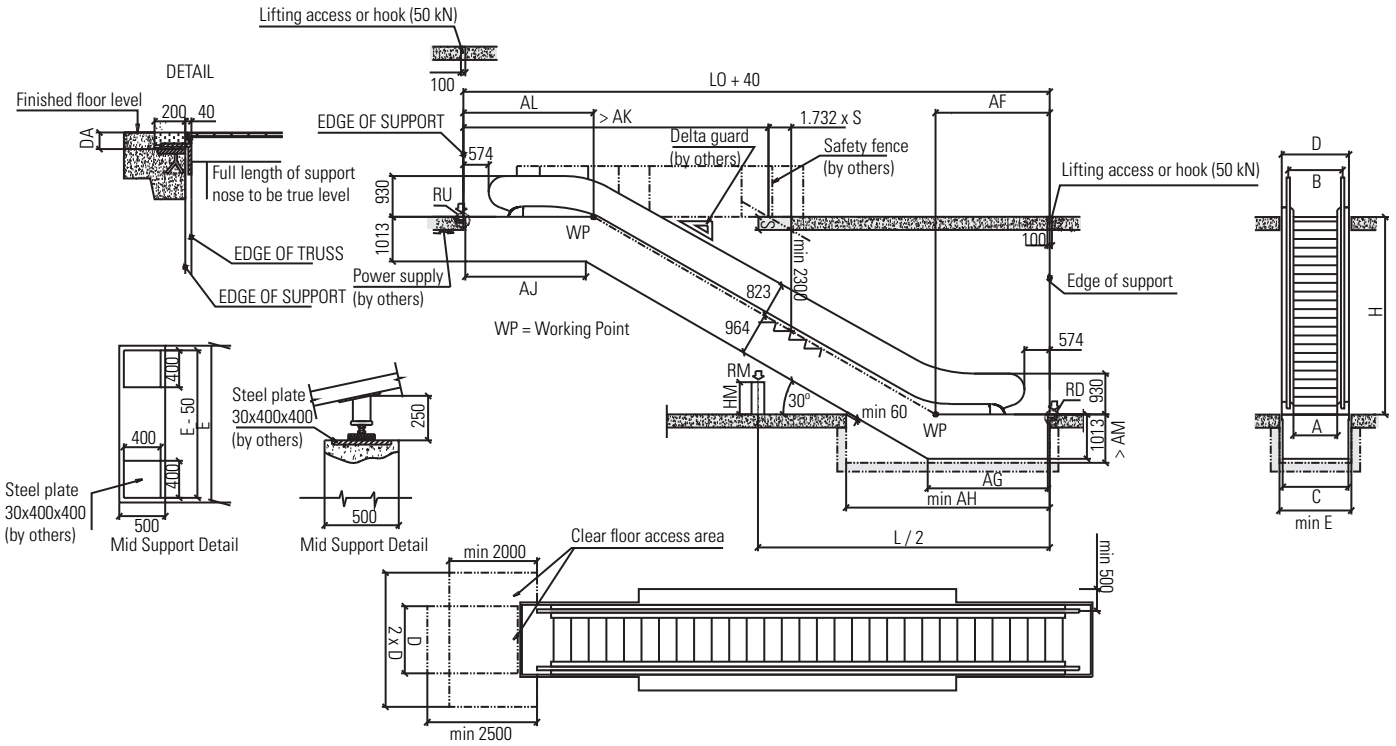
2. "IN USE" lamp (Red)
   Lights if a call is registered when the elevator is in use.

3. Hall position indicator
   Hall call and door close buttons, and position indication.

4) Stop indicator lamp (Red)
   Lights when door is opening or closing.
   Lights when an entering car is correctly positioned in the lift.
   Lights when the elevator is running.



30° Escalator Layout



30° ESCALATOR SPECIFICATIONS

DIMENSIONS															
H (rise in mm)	Flat Steps	A	B	C	D	E	AF	AG	AH	AJ	AK	AL	L	AM	DA
6000 to 8000	3	800	1031	1300	1330	1440	2599	2740	4640	2744	6950	2966	1.732H + 5565	In-/Outdoor Model A 1103	No rubber shock absorber 108
		1000	1231	1500	1530	1640									
3000 to 6000	2	600	837	1100	1130	1240	2199	2340	4240	2844	7050	3066	1.732H + 5265	Outdoor Model B with oil separator 1353	Rubber shock absorber 128
		800	1031	1300	1330	1440				2344	6550	2566	1.732H + 4765		
		1000	1231	1500	1530	1640									

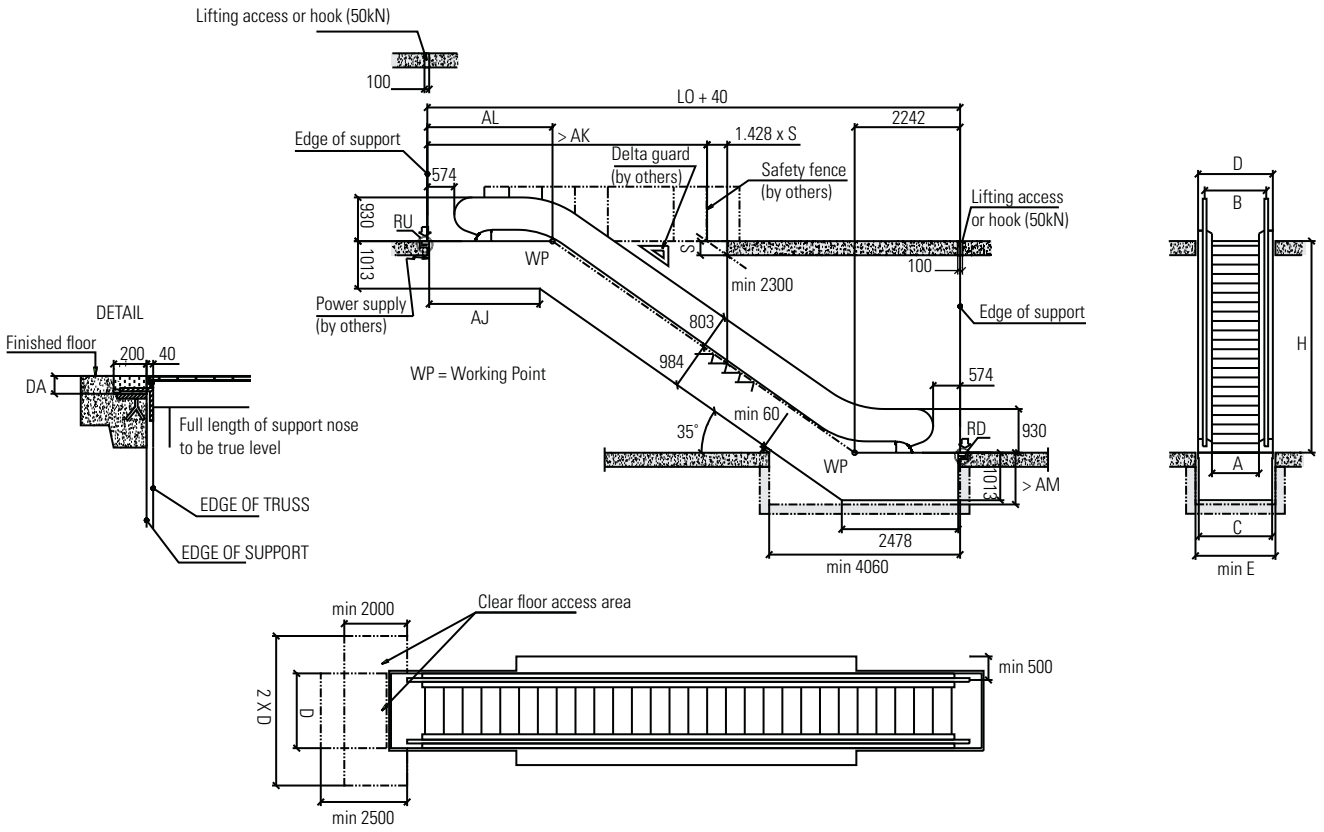
RISE / POWER / SPEED				
Type	Step Width mm	Max Height m	Power kW	Speed m/s
KM H1	1000	5.0	7.5	0.5
		6.0	9.5	0.5
	800	6.0	7.5	0.5
	600	6.0	7.5	0.5
KM 160	1000	4.7	7.5	0.5
		6.0	9.0	0.5
		6.9	11.0	0.5
		8.3	13.0	0.5
	800	6.0	7.5	0.5
		7.6	9.0	0.5
		9.0	11.0	0.5
	600	6.0	7.5	0.5

REACTIONS kN			
Step Width mm	Support Point	2 Supports	3 Supports
1000	RU	4.96L + 17.0	2.3L + 13.6
	RD	4.96L + 10.0	2.3L + 7.1
	RM	N/A	7.16L + 4.9
800	RU	4.31L + 18.0	2.02L + 6.8
	RD	4.31L + 10.0	2.02L + 6.8
	RM	N/A	6.33L + 4.8
600	RU	3.66L + 27.0	N/A
	RD	3.66L + 22.0	N/A

ESCALATOR PACKAGES

- Traction machine
- Controller
- Truss
- Driver
- Aluminum or Stainless floor plates
- Aluminum or Stainless steps
- Step chain, guide rail, side panels
- T or S style armrest entrances
- Handrail (color selection)
- Anti-pinch guard on skirt panel
- Full safety string

35° Escalator Layout



35° ESCALATOR SPECIFICATIONS

A	B	C	D	E	AJ	AK	AL	L	AM	DA
600	837	1100	1130	1240	2844	6450	3163	1.428H + 5405	In- / Outdoor Model A 1103	No rubber shock absorber 108
800	1031	1300	1330	1440	2344	5950	2663	1.428H + 4905	Outdoor Model B with oil separator 1353	Rubber shock absorber 128
1000	1231	1500	1530	1640						

RISE / POWER / SPEED				
Type	Step Width mm	Max Height m	Power kW	Speed m/s
KM H1	1000	5.1	7.5	0.5
		6.0	9.5	0.5
	800	6.0	7.5	0.5
	600	6.0	7.5	0.5
KM 160	1000	4.7	7.5	0.5
		6.0	9.0	0.5
	800	6.0	7.5	0.5
	600	6.0	7.5	0.5

REACTIONS kN		
Step Width mm	Support Point	2 Supports
1000	RU	5.11L + 13
	RD	5.11L + 5
800	RU	4.41L + 15
	RD	4.41L + 9
600	RU	3.76L + 18
	RD	3.76L + 12

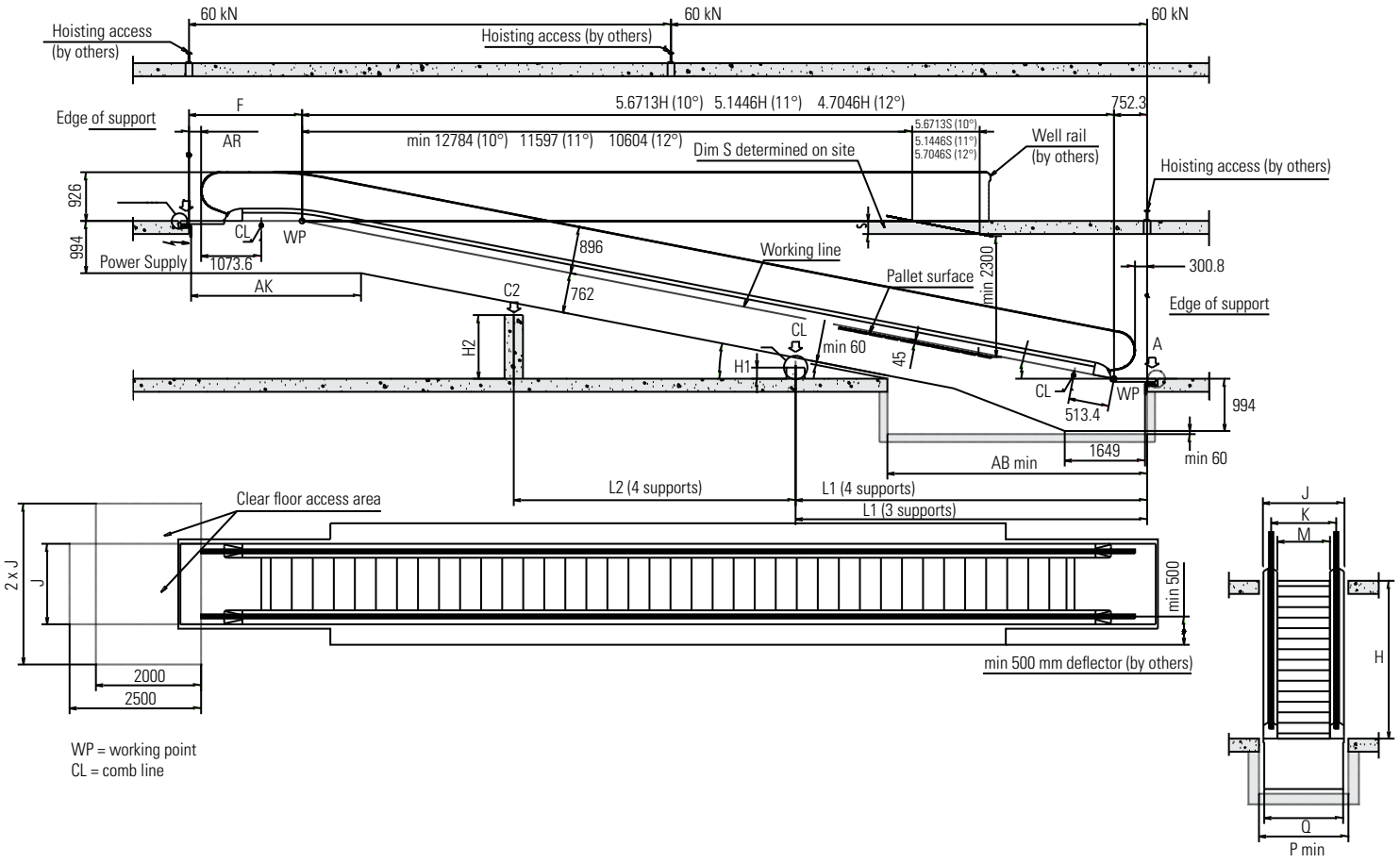
KM 160

- Vertical worm gear traction machine, 380 VAC, 50/60 Hz
- Brake voltage - 220 VAC

KM H1

- Horizontal, helical gear traction machine, 380 VAC, 50/60 Hz
- Brake voltage - 220 VAC
- Reduces energy consumption by 30% over traditional, vertical worm gear machines

People Mover Layout



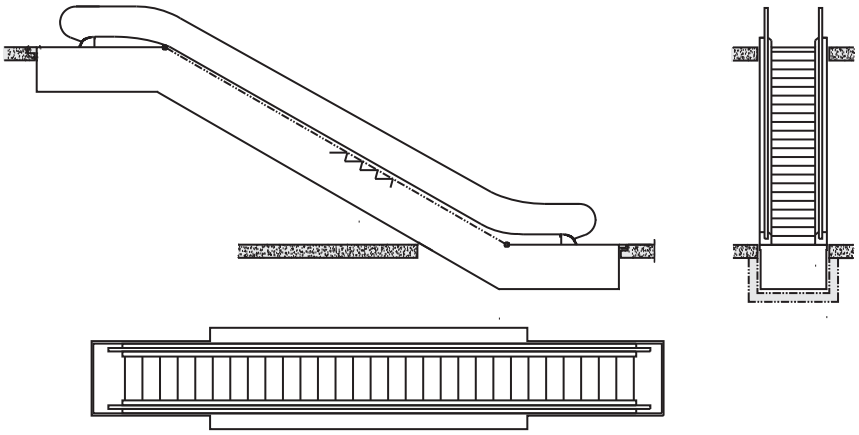
WP = working point
CL = comb line

PEOPLE MOVER SPECIFICATIONS

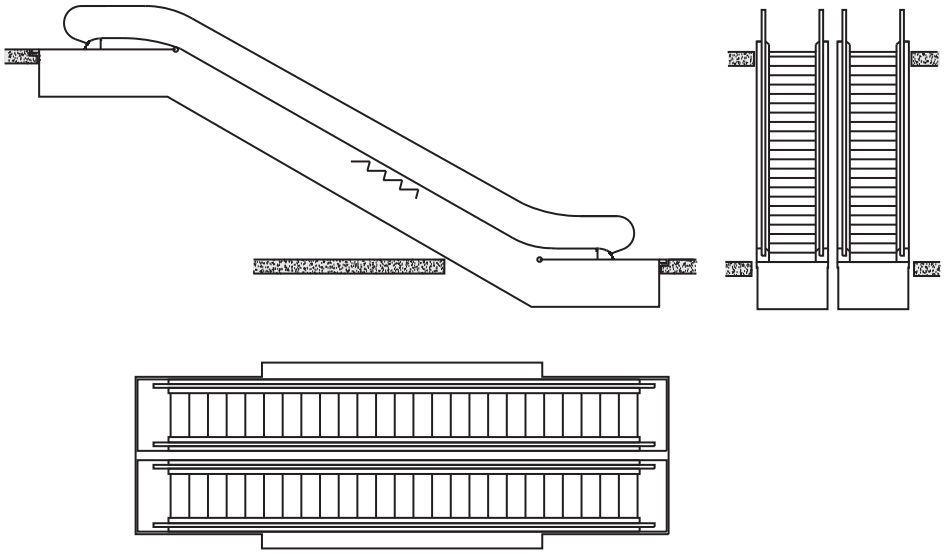
DIMENSIONS											
Angle	D	AR	AK	AB	F	Q	Pmin	M	K	J	Pallet Width
12°	(4.7046H + 2937.8) $^{+40}_{0}$	304.8	3262	4362.8	2185.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000
11°	(5.1446H + 2901.8) $^{+40}_{0}$	300.8	3230	5060.3	2149.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000
10°	(5.6713H + 2865.8) $^{+40}_{0}$	296.8	3198	5587.8	2113.8	1300	1430	805	1037	1330	800
						1500	1630	1007	1237	1530	1000

REACTIONS kN				
Pallet Width mm	Point	2 Supports	3 Supports	4 Supports
1000	C2	N/A	N/A	3.45D +5.2
	C1	N/A	6.1D + 4.2	3.45D + 5.0
	B	4.9D + 14.0	2.2D = 14.0	1.5D + 15.0
	A	4.9D + 6.2	2.2D + 5.0	1.5D + 6.0
800	C2	N/A	N/A	3.1D + 10.0
	C1	N/A	4.25D + 18.0	3.1D + 9.2
	B	4.25D + 18.0	1.9D + 17.0	1.3D + 17.0
	A	4.25D + 8.2	1.9D + 8.0	1.3D + 9.0

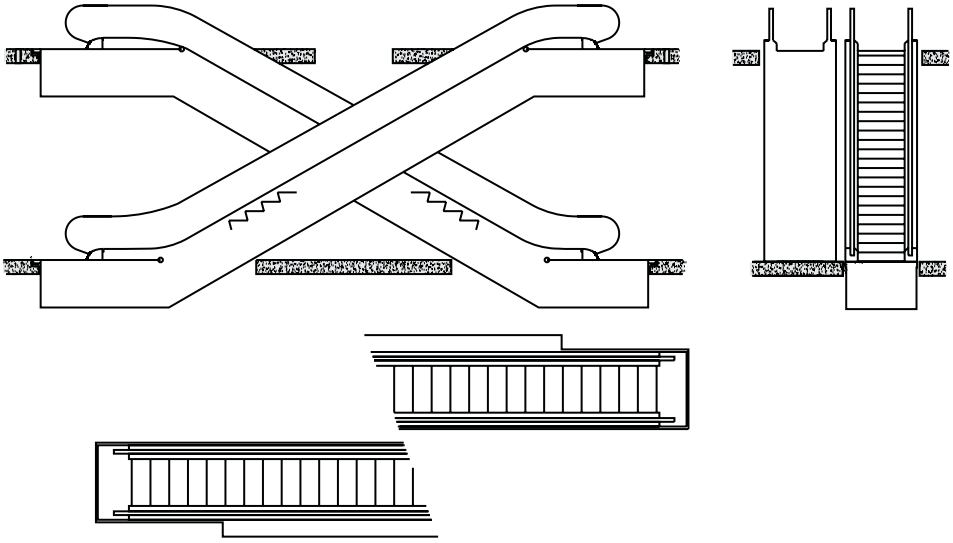
Single



Side by Side



Side by Side Opposing



Cabs and Entrances

Kinetek elevator cabs, entrances and doors are engineered and manufactured to the highest industry standards. We provide complete cabs in a variety of finishes.

Our custom hand and bumper rails (over 20 different styles) provide protection to elevator passengers and your elevator interior, and are compliant with building codes. Traditional door opening styles provided by Kinetek — single slide, center opening and two-speed side or center opening — can be matched with a variety of frames and finishes to complement your project.

Ceiling choices come in a variety of finishes, and vary from easy-to-maintain, fluorescent-lit suspended ceilings to flexible incandescent downlit ceilings. Over 60 interior/door/lighting selections are available.

Traditional

KT-CR001

KT-CR008

KT-CR002

KT-CR003

KT-CR004

Traditional

KT-CR005

KT-CR006

KT-CR007

Observation Cars

KT-OR001

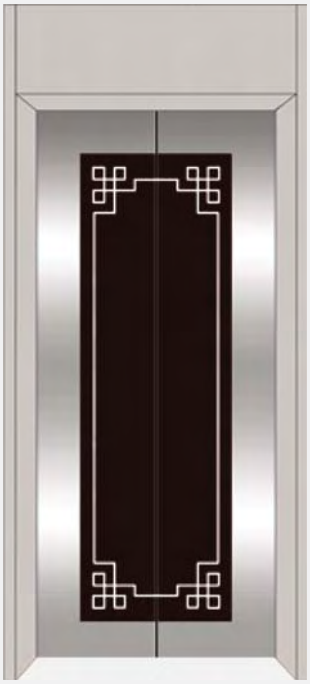
KT-OR002

KT-OR003

KT-OR004

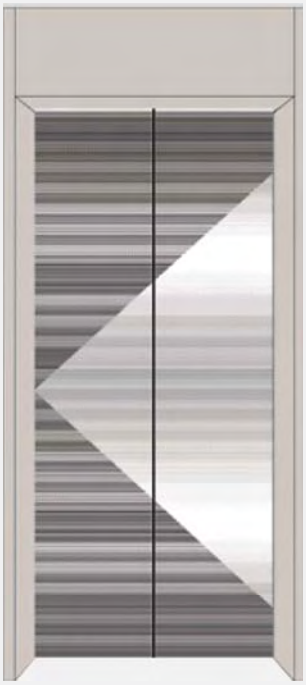
Doors and Entrances

Doors are available in a wide variety of textures and finishes.



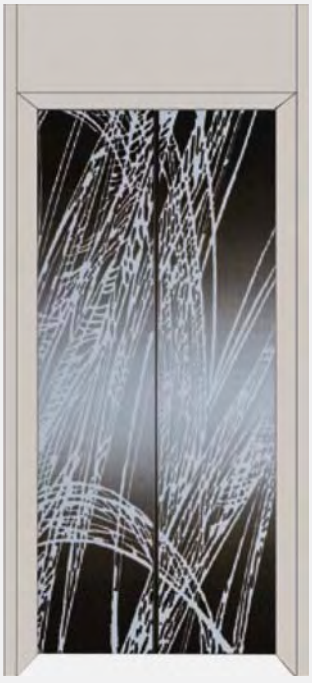
KT-DR001

KT-DR002



KT-DR003

KT-DR004



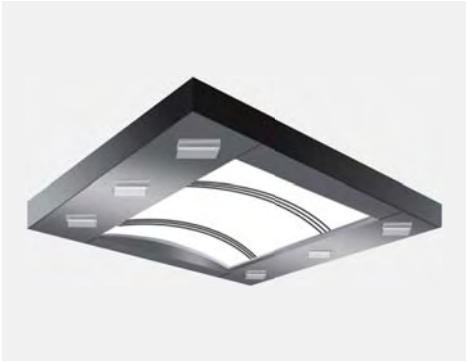
KT-DR005

Lighting

Kinetek provides lighting fixtures that complement car interiors. Over forty standard lighting choices are available.

KT-LT001

KT-LT002



KT-LT003

KT-LT004

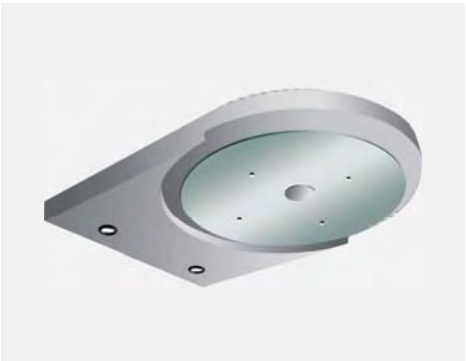
KT-LT005

KT-LT006

KT-LT007

KT-LT008

KT-OL001



KT-OL002

KT-OL003

Appointments: Car and Hall Fixtures

Kinetek elevator packages feature design-rich handrails and floor options, and beautiful yet rugged car and hall fixtures.


KT-OPB001


KT-HIP001


KT-HPB001


KT-OPB002


KT-HIP002


KT-HPB002


KT-OPB003


KT-HIP003


KT-HPB003


KT-OPB004


KT-HIP004


KT-HPB004


KT-OPB005

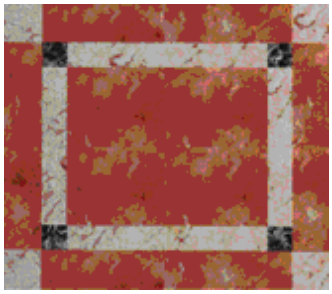

KT-HIP005


KT-HPB005

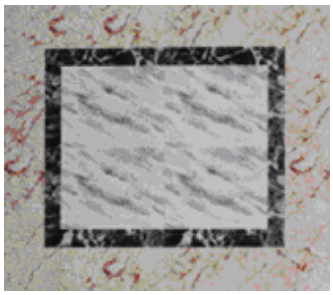
KT-HR001

KT-HR002

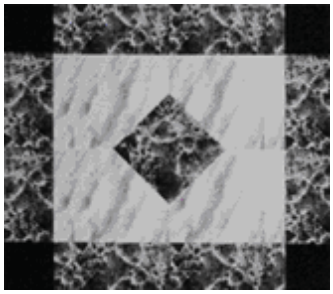
KT-HR003



KT-F001 (PVC)



KT-F002 (PVC)



KT-F003 (PVC)

KT-F004 (Marble)

KT-F005 (Marble)

KT-F006 (Marble)

Controllers

Kinetek's iControl, Motion, ZXK 3200, and ZXK 3000 platforms give customers the competitive advantage of controller solutions for low-, mid- and high-rise projects. Incorporating state-of-the-art technology, our industry-leading controllers set the standard for high performance, design and manufacturing, providing customers with products that are more reliable and easier to install, adjust and maintain.

iControl

Features and capabilities unmatched in the industry.

iControl is an advanced design controller providing control, monitoring and diagnostic capabilities beyond those of any competitive product.

- Intelligent iBox processor and closed-loop-control, 16K PWM AC or 12-Pulse DC drives.
- Networking technology is built-in with three independent, two-port TCP/IP connections. Operations and access through a LAN switch/router for configuration, monitoring and BMS applications.
- Completely user-configurable using our exclusive iView application, which also provides current status of every important system value, including built-in virtual oscilloscope display.
- iMonitor remote monitoring provides real time display of group and individual elevator status, while iReport lets you gather and display individual car or group statistics over time.
- Reduces machine room cooling requirements, thanks to our PowerBack™ AC Regeneration system.

Motion 4000 and Motion 4000MRL

Flexible, high performance traction controls for low- and mid-rise applications.

Flexibility for small machine room or machine room-less installations with application-sized enclosures and components that can be located away from the controller (like Torqmax F5 drive for Motion 4000MRL).

- Configuration and diagnostics are on-board accessible using simple LCD screen and keypad. Inter-board communication is reliable, lightweight, CAN Bus protocol.
- Dual sensor positioning system and machine encoder feedback with independent, three-way data cross-checking eliminates floor zone/leveling magnets and slowdown, emergency and terminal switches.
- Torqmax F5 AC VVVF drive, available in several configurations, supports auto-tuning with AC induction and permanent magnet AC motors, encoder/pole synchronization and serial parameter downloads.
- CAN Bus serial hall call, serial car calls, and serial link from car to controller. Hand-held UI plugs into controller, COP or cartop CAN connection to enable field programming.
- Reduces machine room cooling requirements, thanks to our PowerBack™ AC Regeneration system.

Motion 2000 Hydraulic Control

Clean. Simple. Economical. Dependable.

Supporting simplex, duplex or group control, Motion 2000 simplifies interconnectivity and field expansion through CAN Bus technology, phone-style connectors and optimized field connection locations.

- The same straightforward interface, switch programming and LCD display as our previous generation controllers. Hand-held UI plugs into controller, COP or cartop CAN connection to enable field programming.
- Multiple, redundant, self-contained processors provide reliable control and constant safety monitoring. An optional Ethernet port supports real-time connection to iReport, iMonitor and iLobby for real-time monitoring, history, reports and graphic display of activity.

ZXK 3200C Traction Control

Simplex/duplex/groups to six cars.

Service to 64 floors, single or double openings. AC VVVF control of AC induction or permanent magnet machines. The ZXK 3200C uses modular architecture centered around the CPU main control board and the car control board. The control board provides simple CAN Bus connectivity for just the number of hall call control boards required. The car control board uses CAN connected car instruction boards (one for every 6 landings served) for easy interface to small or large car operating panels. CAN Bus car and hall call communication allow less bulk and lower cost in traveler and hoistway cabling.

- Remote monitoring available
- Load weighing
- EN81 compliant
- Battery backup via UPS system
- Dispatching and back up dispatching with no separate enclosures required
- Door pre-opening
- Serial hall and car call

ZXK 3000B Traction Control

Simplex/duplex/groups to six cars.

ZXK 3000B VVVF and VVVF MRL uses a building block approach resulting in a small number of circuit boards with logically grouped functionality, linked by a high speed CAN bus. The main controller handles hoistway and machine room equipment. The car control board handles all car related equipment.

- CAN Bus communication
- Factory matched motors/machines
- EN81 compliant main board with CE certificate
- Door pre-opening (optional)
- Double door machine control (optional)
- Automatic leveling (optional)
- Electric brake release (optional)

Controller	Contract Speed (meters per second)	Floors/Openings	Group Size
iControl AC & DC	10 m/s	150 / 300	to 15 cars
Motion 4000 AC	6 m/s	32 / 64	to 8 cars
Motion 4000 AC MRL	4 m/s	32 / 64	to 8 cars
ZXK 3200	4 m/s	64/128	to 6 cars
ZXK 3000B	4 m/s	64/64	Simplex/Duplex
Motion 2000 Hydraulic	200 fpm — 1.0 m/s	32 / 64	to 8 cars
Motion 3000ES Escalator	Limited to 100 fpm — 0.5 m/s in most areas	N/A	N/A

Motion 3000ES Escalator Control

Variable speed or direct line control.

Field programmable escalator control available with VVVF Variable Speed or Wye/Delta Direct Line Control. Motion 3000ES provides hardware flexibility, allowing enclosure size and motor drive, control keypad, and processor board locations (in cabinet or remote) to vary depending on the needs of the installation. Motion 3000ES is fully ASME A17.1-2004, CSA B44.04, BS EN 115, and AS 1735.5 compliant, with independent, redundant safety string inputs, signal path and processing to ensure safe operation. Motion 3000ES controls feature:

- Prominent, externally accessible machine controls
- High speed CAN serial bus communication
- High visibility LED message and parameter displays
- Multiple remote display support
- Direct parameter entry (no external devices required)
- Cabinet or remote mount inspection control sockets

Machines and Motors

A complete line of high-performance motors to keep products in motion and performing to specifications — including high-torque, power-packed gearless AC machines that deliver a premium ride while using 40% less power. Kinetek's commitment to green technology pays off with increased motor efficiency and lower power consumption than traditional lift products.

Open architecture machines provide many service advantages:

- Permanent magnet AC gearless machines have balanced engineered pick points to make installation and service easier.
- Standard frame sizes are used with future service needs in mind.
- Dual, independent brake design on gearless machines meets emergency brake requirements currently used on traction applications.

Gearless AC machines provide unusually capable low-rpm, high-torque operation that's noticeably quieter and nearly maintenance-free. Rugged cast iron frames protect a totally enclosed, self-cooling motor, while machine brake and sheave assemblies are removable and replaceable, providing cost savings over years of service.

JORDAN 800

Disc brake, 2:1 or 1:1 roping.

Compact machines designed for machine room-less environments. Loading capacity 320 to 1250 kg with 1:1 roping or 320 to 2500 kg with 2:1 roping to 1.75 m/s.

- Compact design
- Heavy duty construction
- Machine room-less
- Harsh environments

WTY1

Compact package and high performance.

Five WTY1 models are available to accommodate 450 kg to 1600 kg load capacities at speeds from 0.63 to 2.5 m/s.

- 400mm, 5- or 6-groove sheave
- 8 or 10mm rope, single wrap
- Heavy duty construction
- Machine and machine room-less
- Sheave shaft loads up to 5,000 kg
- 450 kg to 1,250 kg car capacity @ up to 2.5 m/s

WTY2

Power over a wide range with three models available.

Three WTY2 models are available to accommodate 1600 kg, 2000 kg, or 2500 kg load capacities at speeds from 0.63 to 3.0 m/s.

- Machine and machine room-less
- Harsh environments
- Sheave shaft loads up to 10,000 kg
- 1600 kg to 2500 kg car capacity @ up to 3.0 meters per second

SWTY1

Compact package and high performance.

SWTY1 machines are perfect for machine room-less or small machine room applications, moving 800 kg loads at speeds to 2.5 m/s.

- 400mm sheave
- Heavy duty construction
- Machine and machine room-less
- Harsh environments
- 800 kg @ up to 2.5 m/s

SWTY2

1:1 roping for high power requirements.

Robust SWTY2 machines handle loads from 1000 to 1350 kg at speeds to 4.0 m/s.

- 420 or 508mm sheave
- Heavy duty construction
- Machine and machine room-less
- Harsh environments
- 1000 to 1350 kg @ up to 4.0 m/s

Frame 800 Series

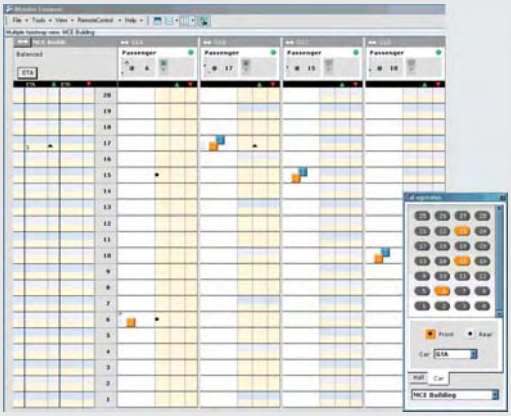
Power to move the biggest loads.

Frame 800 has the capacity to lift 900 to 2,040 kg at speeds to 6 m/s with 1:1 roping or 1,360 to 3,625 kg at speeds to 3.5 m/s with 2:1 roping. Frame 800 supports sheave shaft loads up to 18,140 kg.

- Totally enclosed, self-cooling motor — no fan needed
- Electronically activated double-action brake solenoid available
- Brushless — no brushes to maintain
- Sub base with secondary sheave options
- Heavy duty components and construction

Monitoring and Peripherals

iMonitor



Elevator group monitoring application.

iMonitor provides real-time viewing and access — for elevators just across the hall, in multiple buildings across a campus, even multiple sites across the country. iMonitor's graphical presentation and real-time connectivity provide up-to-the-minute information and allow you to take control if needed.

iMonitor provides general views of multiple elevator groups, hoistway views of multiple cars within a group or detailed views of selected cars. Create "connection sets" to display — each connection set consists of up to fifty connections to elevator group dispatchers, each of which may be at a different physical site.

iMonitor also allows you to configure hall and car call security, enable or disable special group modes of operation, recall a car to a floor you specify, control its door operation at that floor and enable or disable individual car operating modes.

High level multi-group view.

Use iMonitor's high-level views to maintain a broad perspective on several groups simultaneously.

Detailed single-group view.

Narrow your attention to cars in a particular elevator group with a click of the mouse.

Video Rescue System™

Maximum safety through visibility.

Innovative Video Rescue System™ incorporates video imaging and battery power to allow a technician to safely move the car to a landing if commercial power is lost. A car-mounted camera sends video to an LCD screen in the controller. Using a button to control battery-provided brake lift power, and watching the LCD, the technician moves the car to a landing, aligning a marker on the LCD with a graphic in the hoistway to stop the car in the landing zone.

Destination Based Dispatching

Kinetek's Destination Based Dispatching is an innovative dispatching system that enhances building traffic flow by intelligently matching passengers to elevator cars and achieving optimal efficiency.

The technology behind this system uses complex algorithms, but the passenger experience is quite simple: After selecting the desired floor on a touch-screen, passengers are directed to the elevator that will take them to their destination. It's just that simple.

Everyone familiar with traditional dispatching — where passengers wait impatiently for the first elevator to arrive and then gather at the elevator as the door opens — knows the pressure of catching the next elevator. With Destination Based Dispatching, passengers can relax because they know in advance which elevator is coming to meet them.

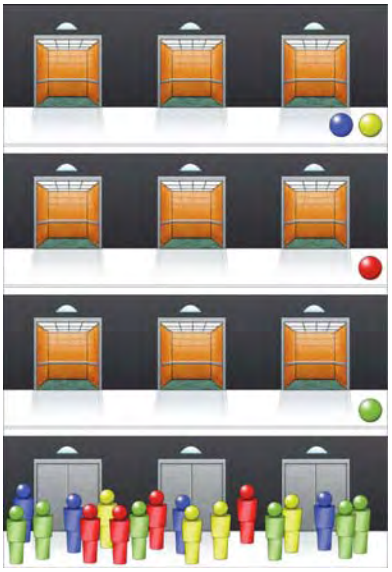
Destination Based Dispatching allows the most efficient passenger elevator assignment for a given number of floors, passengers per elevator, and minimum number of stops per elevator. It provides an alternative to the typical busy scenario where a crowd of passengers enters an elevator, each needing to select a floor when they board and then enduring the wait as the elevator stops at several floors — sometimes depositing just one passenger per floor. And this process is duplicated for every elevator in the group. Effective Destination Based Dispatching eliminates this inefficiency by assigning groups of passengers with the same destination to the same elevator, resulting in far fewer stops and improving transit time.

Destination Based Dispatching also provides an ideal solution to minimize expense and maximize efficiency during up-peak traffic times. It's called Lobby Boost, and it uses Destination Based Dispatching on the lobby floors but standard fixtures and dispatching on other floors.

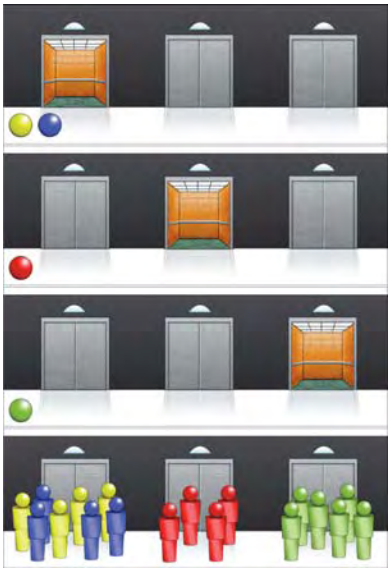
Touchscreen Technology

Passenger selects desired floor, then is directed to specific elevator.

Traffic Handling Benefits



Traditional dispatching results in a high mix of destinations per car, requiring more stops and more time.



Destination based dispatching results in a low mix of destinations per car, requiring fewer stops and less time.

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