

S820 Machine Room-less Elevator

Environmental Protection Energy Saving Maintenance Easy

Compared with machine room elevator, machine room-less elevator can save much space, reduce construction cost, improve hoistway utilization ratio and operation more stable. The machine room-less elevator adopts high efficiency and low energy consumption gearless machine, which can save 30%-40% of power consumption compared to classical gear machine. Little vibration, low noise and perfect security protection guarantees the elevator safer and more reliable.

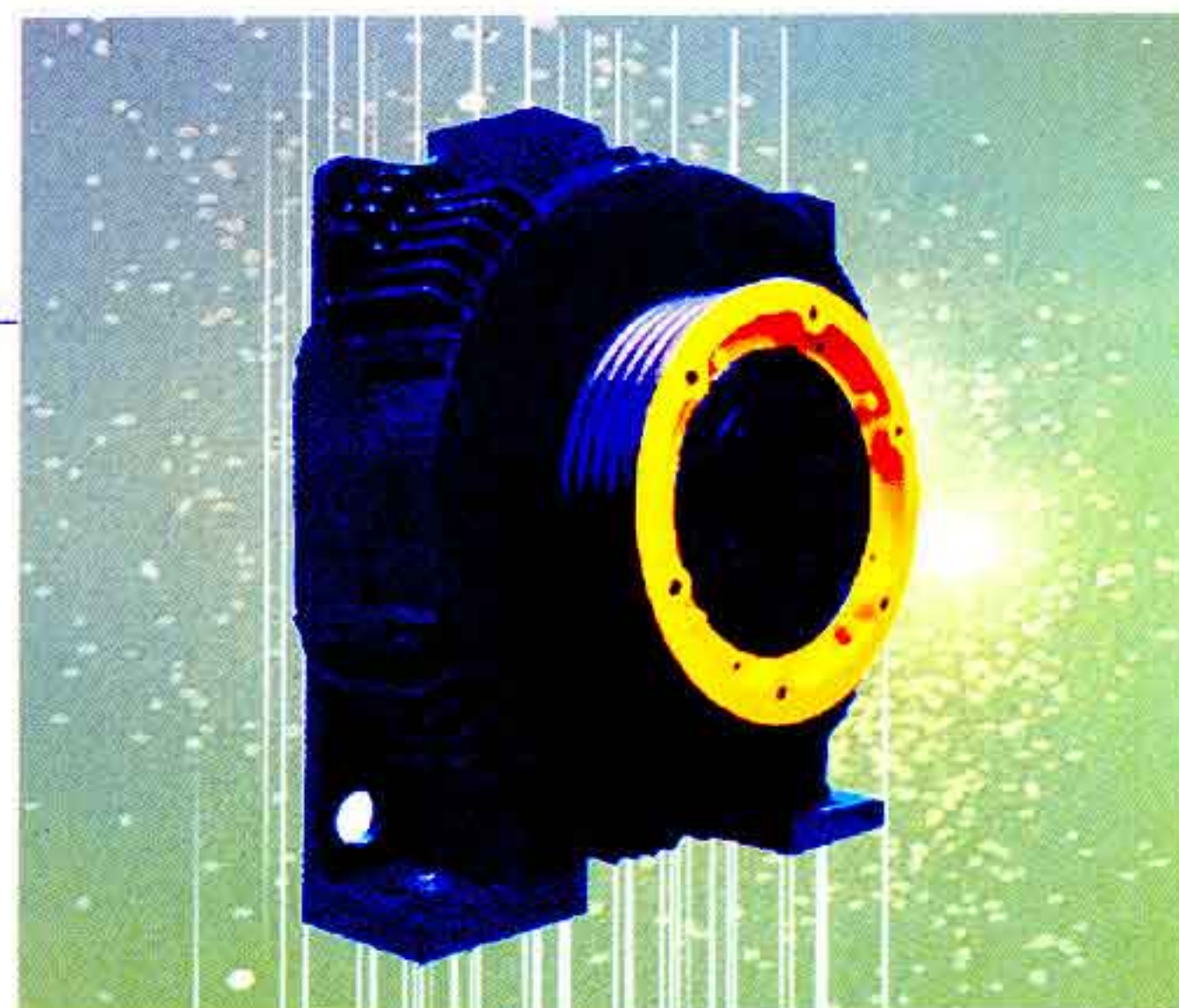
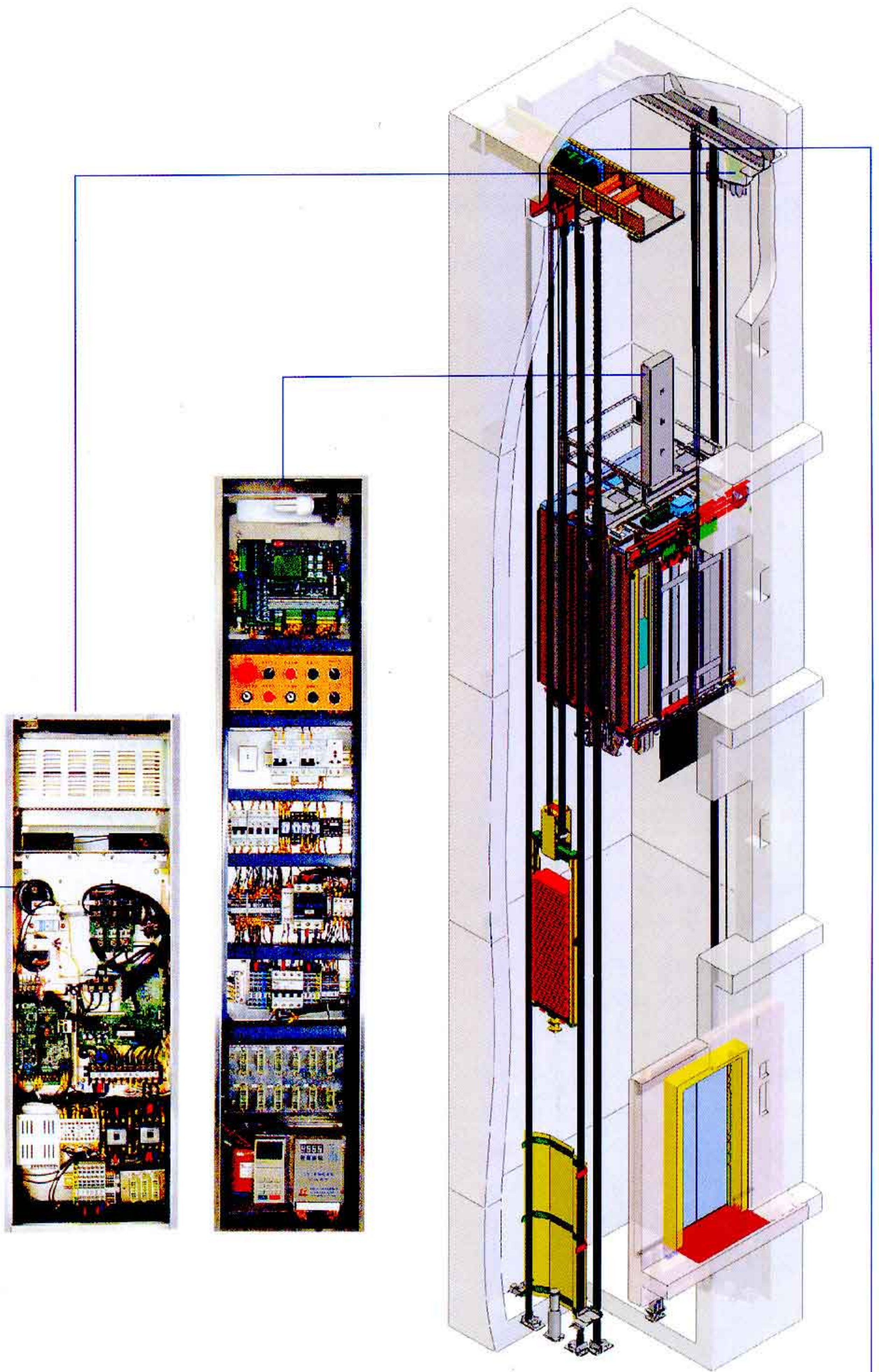
Control System

MPS-300MRL control system applies unique separated structure, which can meet the demanding of none machine room and mini machine room. Simultaneity, the updated multi-computer network control system with synchronized inverter can accomplish excellent speed curve and perfect ride comfort. It applies a lot of updated technology, for example large screen LCD interface and intelligent group control.

Driving System

This series of permanent magnet synchronized gearless machine is compact, environmental protection, energy saving, easy maintenance, low vibration, low noise, high efficiency and with perfect ride comfort.

Professional Conveyance to All Levels

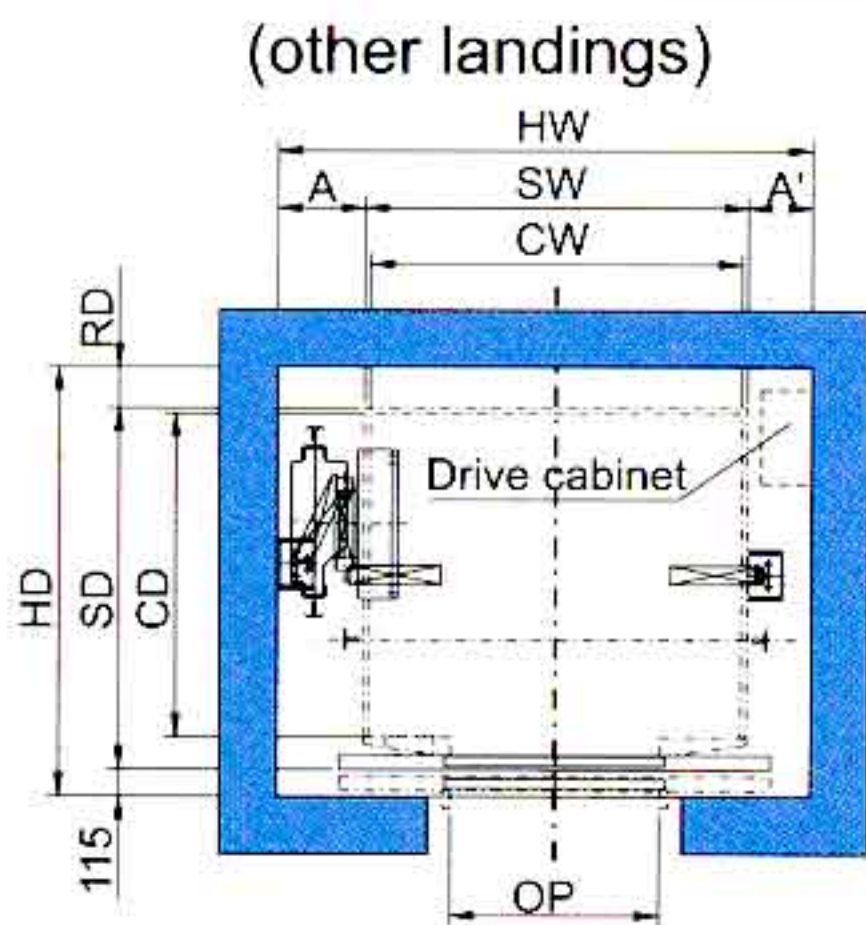


S820 Machine Room-less Elevator (A)

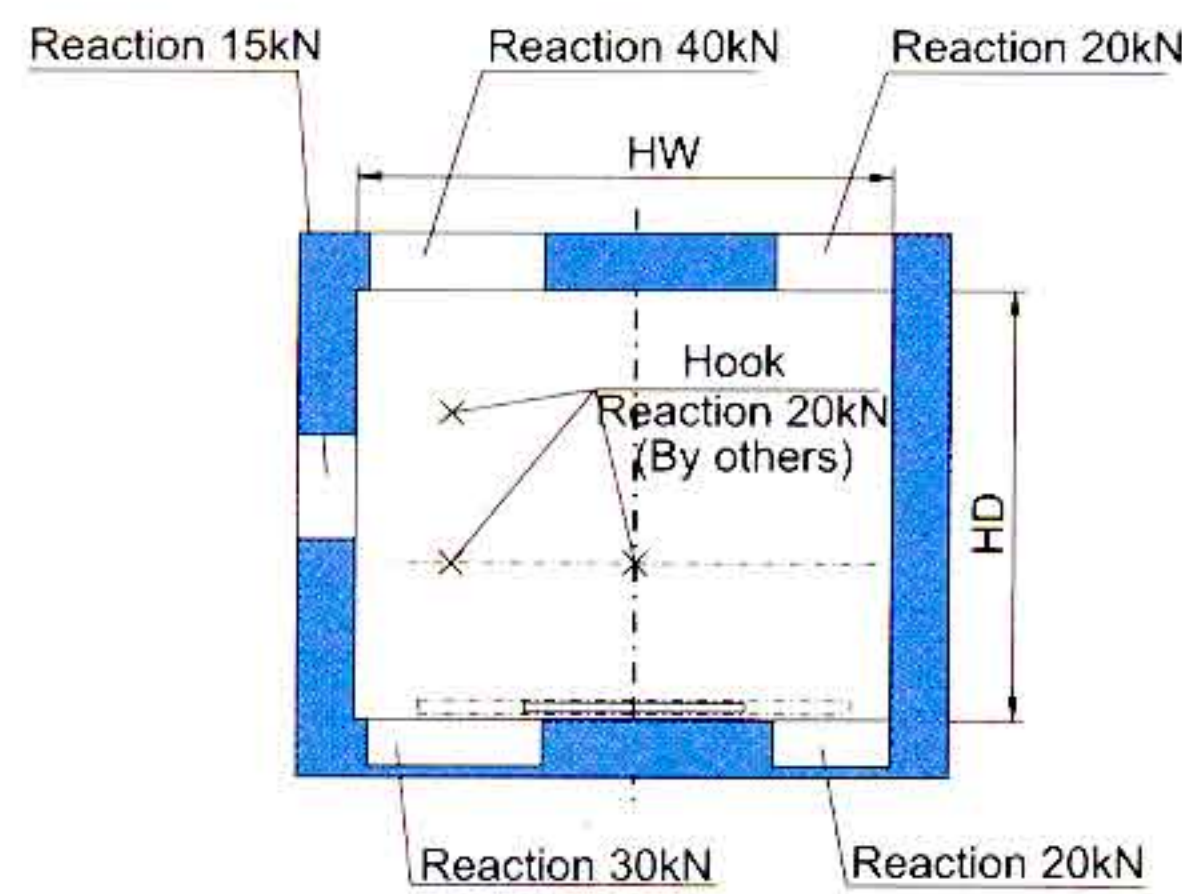
Layout

Center opening

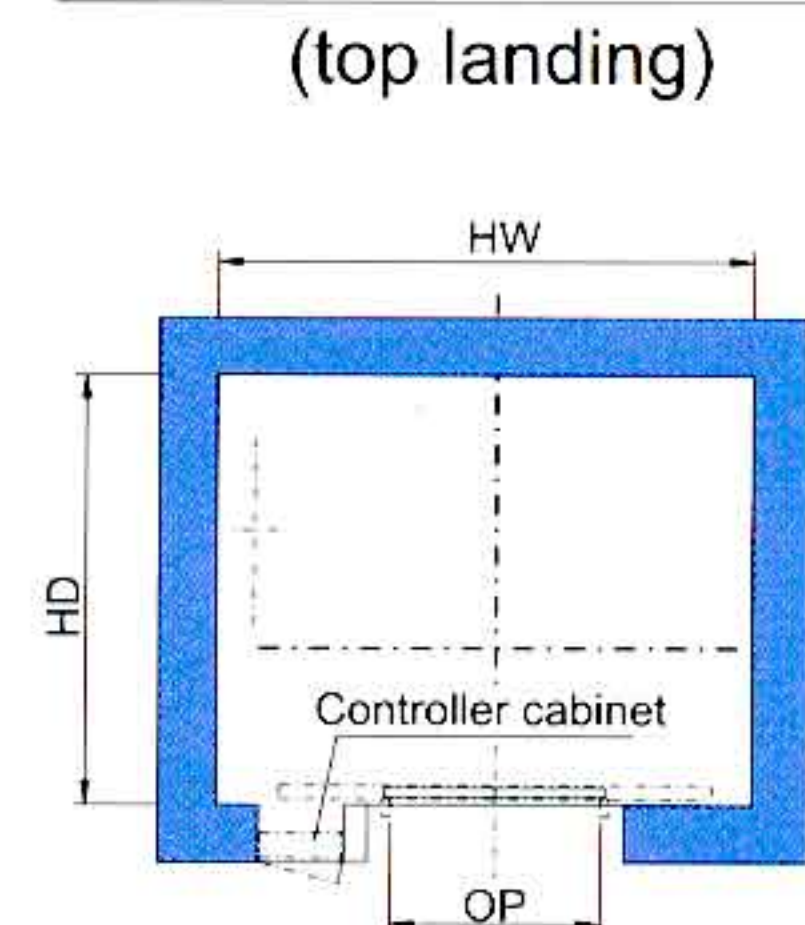
HOISTWAY PLAN (Simplex)



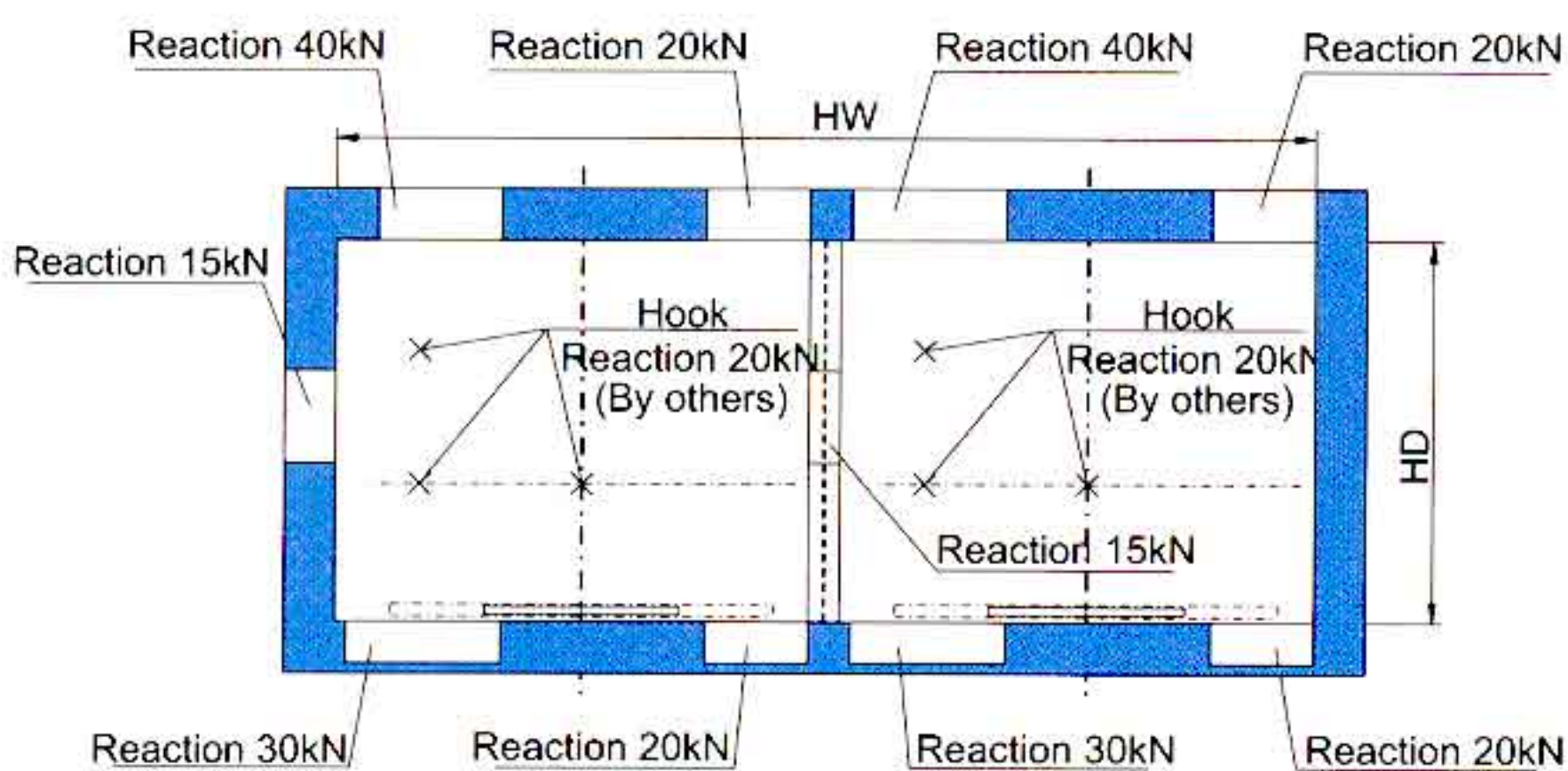
HOISTWAY TOP PLAN (Simplex)



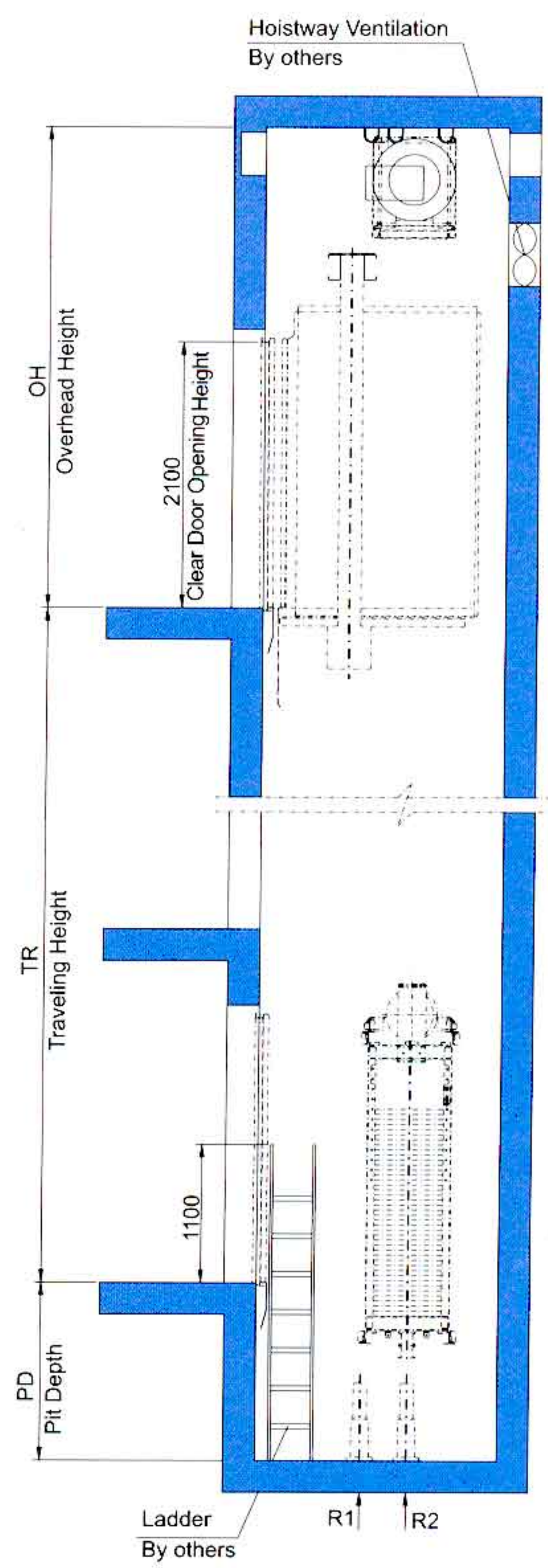
HOISTWAY PLAN (Simplex)



HOISTWAY TOP PLAN (Duplex)

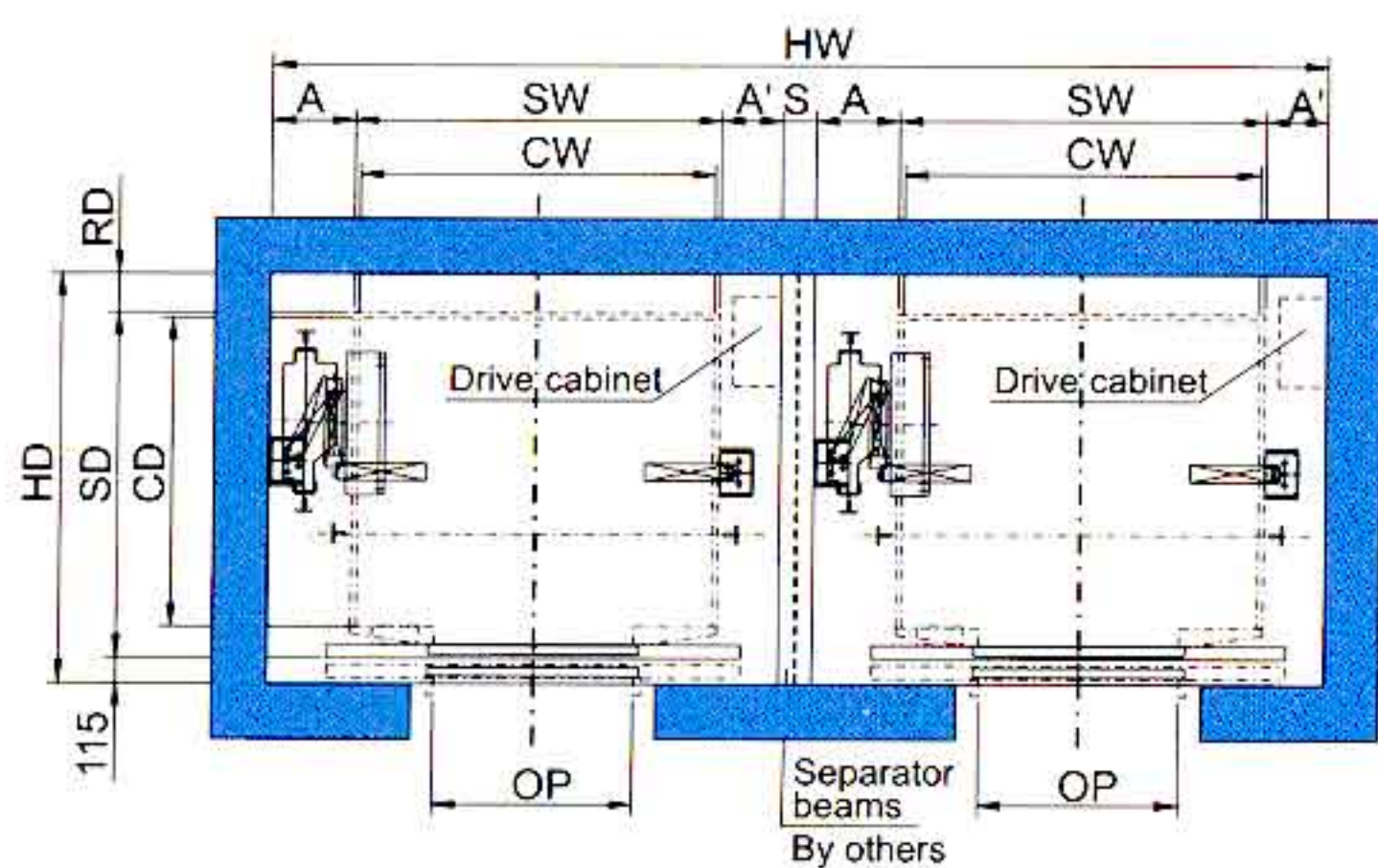


HOISTWAY ELEVATION

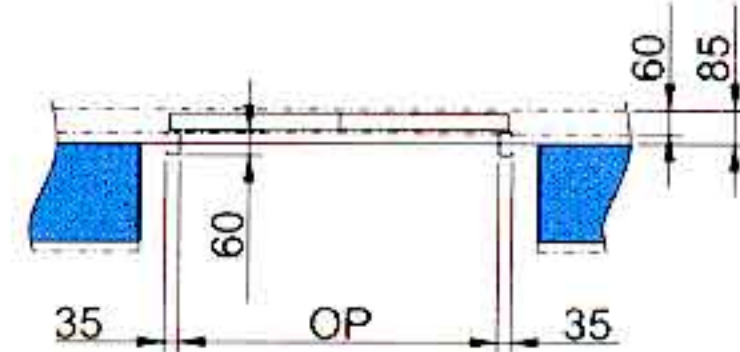


HOISTWAY PLAN (Duplex)

(other landings)

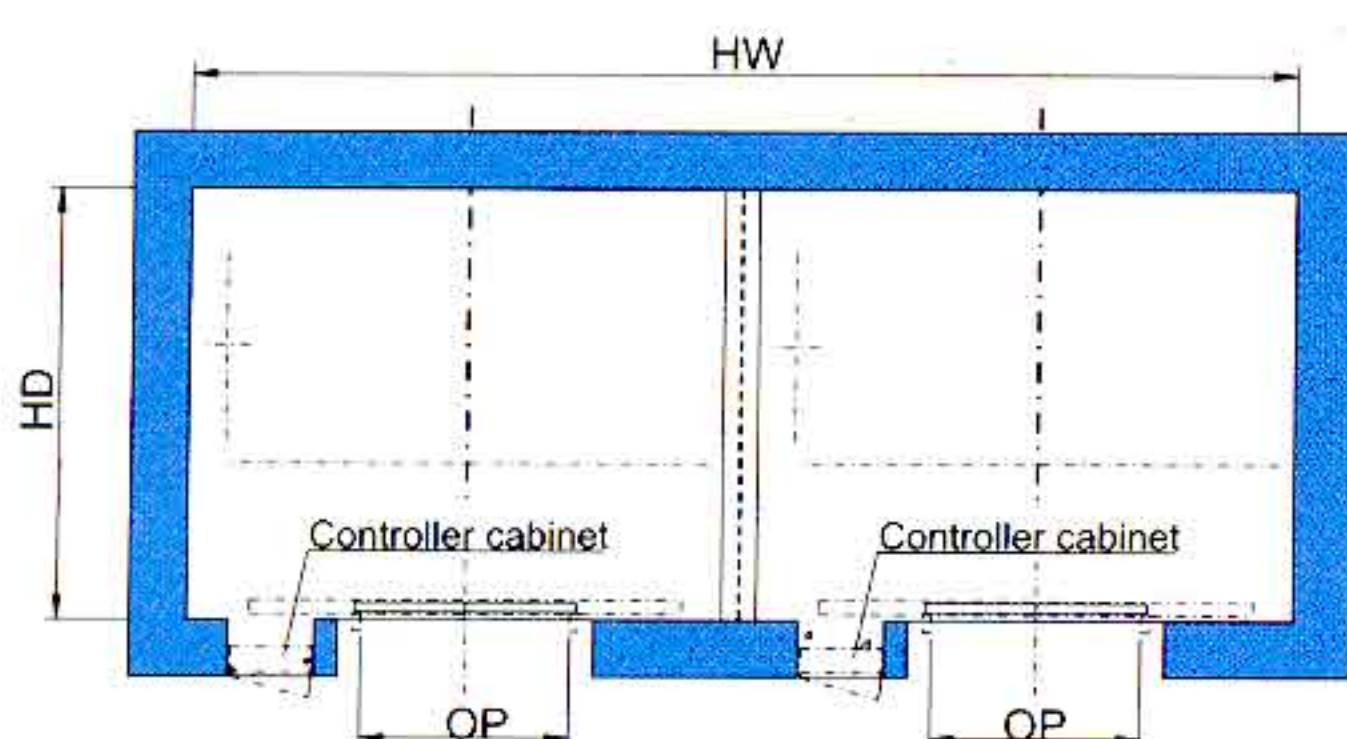


NARROW JAMB DETAIL

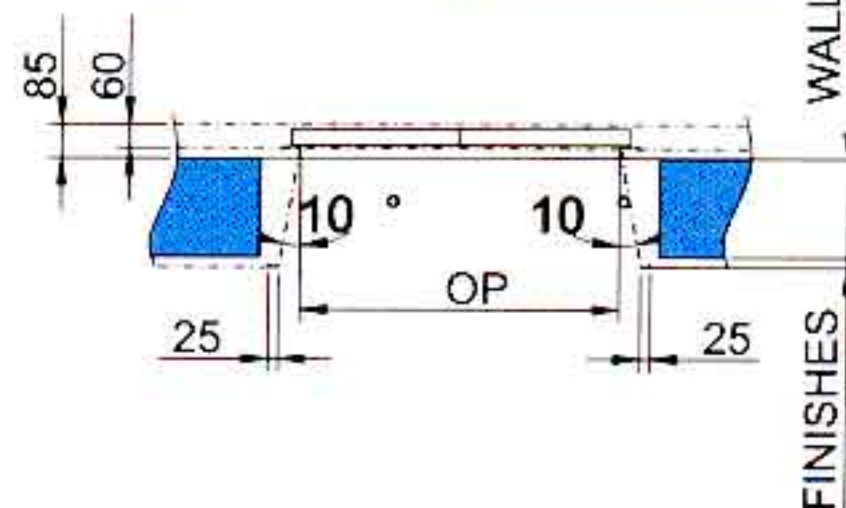


HOISTWAY PLAN (Duplex)

(top landing)



WIDE JAMB DETAIL



Unit:mm

S820 Machine Room-less Elevator (A)

PLANNING GUIDE FOR DIMENSIONS

Unit: mm

Speed (m/min)	Capacity		Entrance Center Opening (mm)	Car Size		Dimensions In Hoistway				Hoistway Size				Pit Reaction Load(kg)	
	Person	Load (kg)		Inside	Outside	A	A'	RD	S	Simplex		Duplex		R1	R2
			CW*CD	SW*SD	HW					HD	HW	HD			
60	8	600	800	1100 × 1400	1150 × 1565	375	325	170	150	1850	1850	3850	1850	6700	5500
	9	680	800	1100 × 1550	1150 × 1715	375	325	170	150	1850	2000	3850	2000	7200	5800
90	10	750	800	1100 × 1650	1150 × 1815	375	325	170	150	1850	2100	3850	2100	7800	6300
105	10	800	800	1100 × 1750	1150 × 1915	375	325	170	150	1850	2200	3850	2200	8300	6700
	12	900	800	1100 × 1900	1150 × 2065	375	325	170	150	1850	2350	3850	2350	9200	7400
	13	1000	800	1100 × 2100	1150 × 2265	375	325	170	150	1850	2550	3850	2550	10100	8100

Unit: mm

Speed (m/min)	Capacity		Entrance Center Opening (mm)	Car Size		Dimensions In Hoistway				Hoistway Size				Pit Reaction Load(kg)	
	Person	Load (kg)		Inside	Outside	A	A'	RD	S	Simplex		Duplex		R1	R2
			CW*CD	SW*SD	HW					HD	HW	HD			
60	9	680	800	1200 × 1400	1250 × 1565	375	325	170	150	1950	1850	4050	1850	7200	5800
	10	750	800	1300 × 1400	1350 × 1565	375	325	170	150	2050	1850	4250	1850	7800	6300
90	10	800	800	1350 × 1400	1400 × 1565	375	325	170	150	2100	1850	4350	1850	8300	6700
105	12	900	900	1500 × 1400	1550 × 1565	375	325	170	150	2250	1850	4650	1850	9200	7400
	13	1000	900	1600 × 1400	1650 × 1565	375	325	170	150	2350	1850	4850	1850	10100	8100

OVERHEAD, PIT DEPTH

Speed (m/min)	Overhead OH (mm)	Pit Depth PD (mm)
60	4200	1450
90	4250	1500
105	4350	1600

ELECTRICAL DESIGN GUIDE

380V

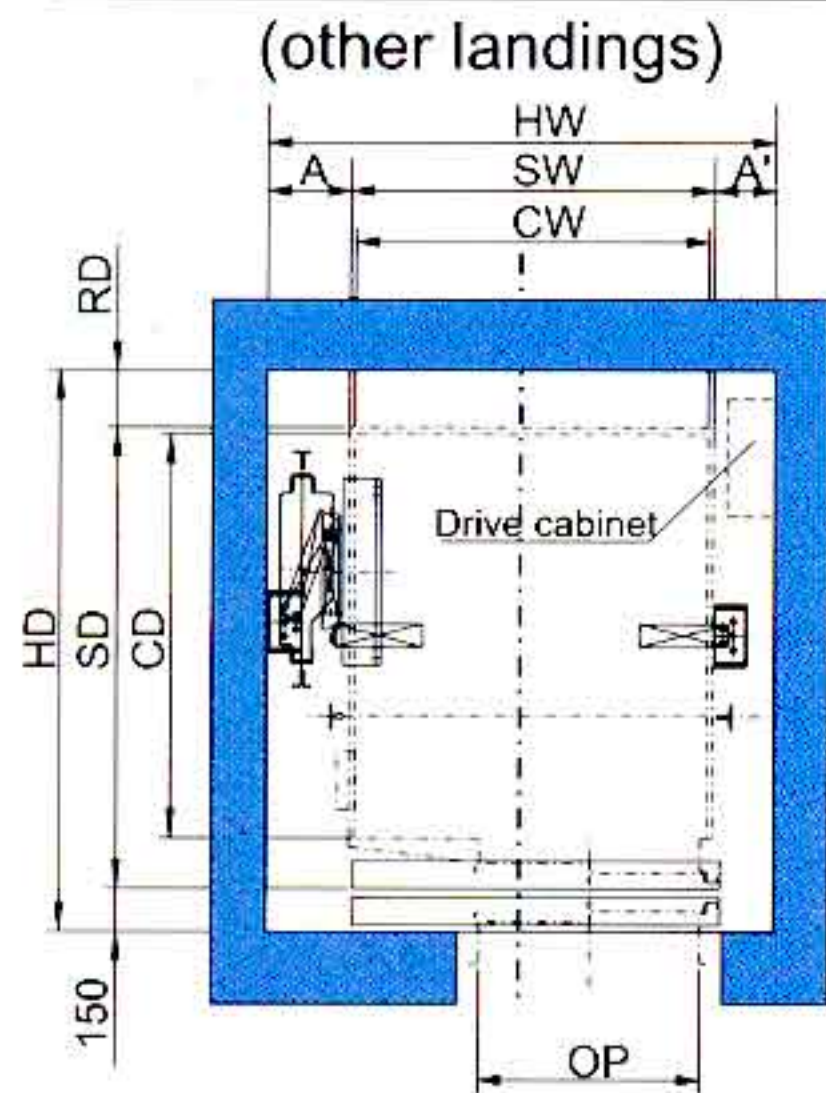
Speed (m/min)	Capacity		Motor Capa (kW)	MCCB Capacity of Building (A)		Power Supply Capacity(KVA)		Lead-in Wire Size (mm ²)		Earth Wire Size(mm ²)	Heat Output (kJ/H)	Starting Power (kVA/set)
	Person	Load (kg)		Simplex	Duplex	Simplex	Duplex	Simplex	Duplex			
60	8	600	3.7	16	20	5.3	10.6	2.5	4	2.5	1890	8.51
	9	680	5.6	16	32	7.8	15.6	2.5	4	2.5	2142	12.88
	10	750	5.6	16	32	7.8	15.6	2.5	4	2.5	2363	12.88
	10	800	5.6	16	32	7.8	15.6	2.5	4	2.5	2520	12.88
	12	900	5.6	16	32	7.8	15.6	2.5	4	2.5	2835	12.88
	13	1000	6.2	20	32	8.8	17.6	4	6	4	3150	14.26
90	8	600	9.2	32	50	13.1	26.2	6	10	6	2835	21.16
	9	680	9.2	32	50	13.1	26.2	6	10	6	3213	21.16
	10	750	9.2	32	50	13.1	26.2	6	10	6	3544	21.16
	10	800	9.2	32	50	13.1	26.2	6	10	6	3780	21.16
	12	900	9.2	32	50	13.1	26.2	6	10	6	4253	21.16
	13	1000	9.2	32	50	13.1	26.2	6	10	6	4725	21.16
105	8	600	11	32	50	13.4	26.8	6	10	6	3308	25.3
	9	680	11	32	50	13.4	26.8	6	10	6	3749	25.3
	10	750	11	32	50	13.4	26.8	6	10	6	4135	25.3
	10	800	11	32	50	13.4	26.8	6	10	6	4410	25.3
	12	900	11	32	50	13.4	26.8	6	10	6	4962	25.3
	13	1000	11	32	50	13.4	26.8	6	10	6	5513	25.3

S820 Machine Room-less Elevator (B)

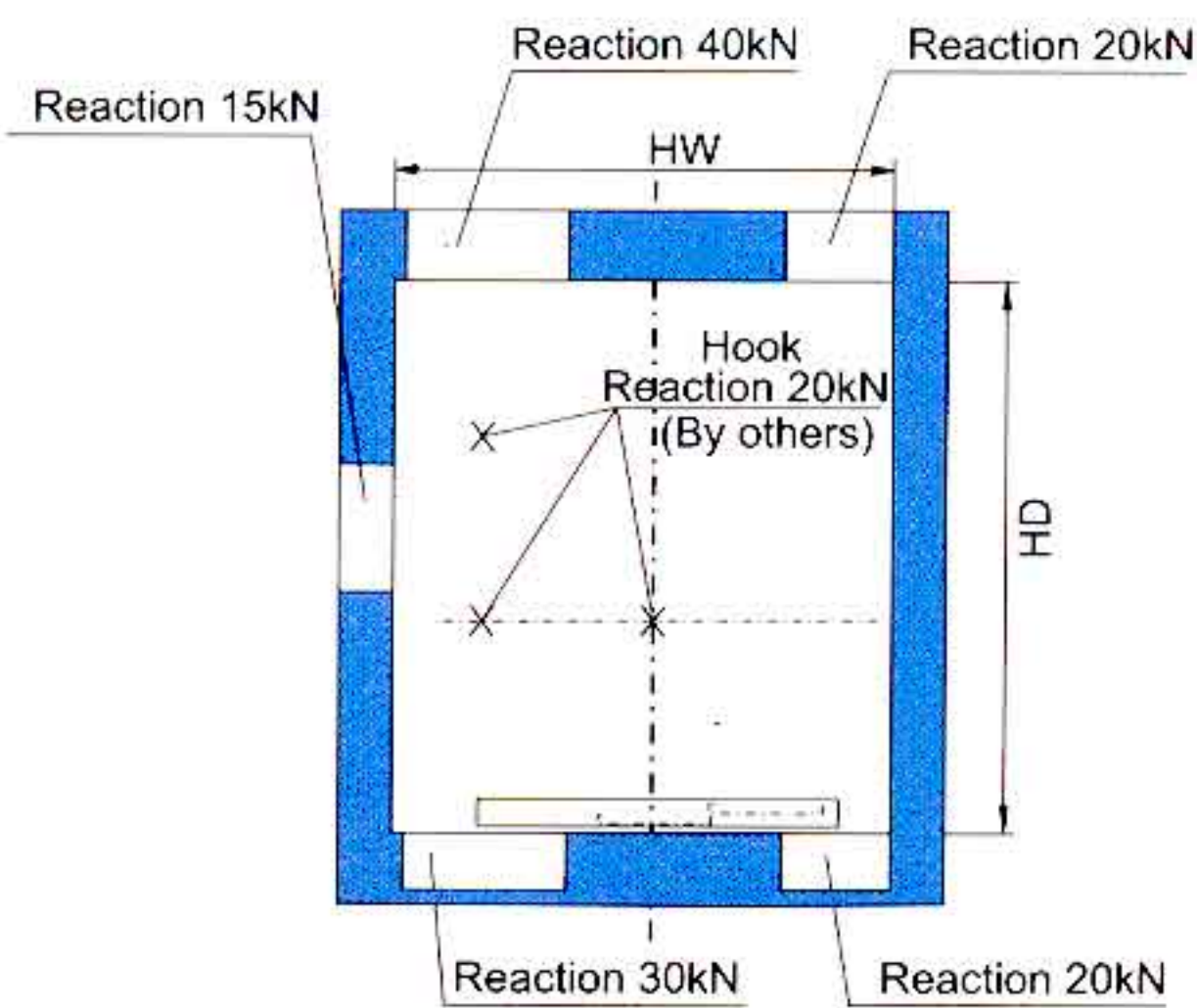
Layout

Side opening

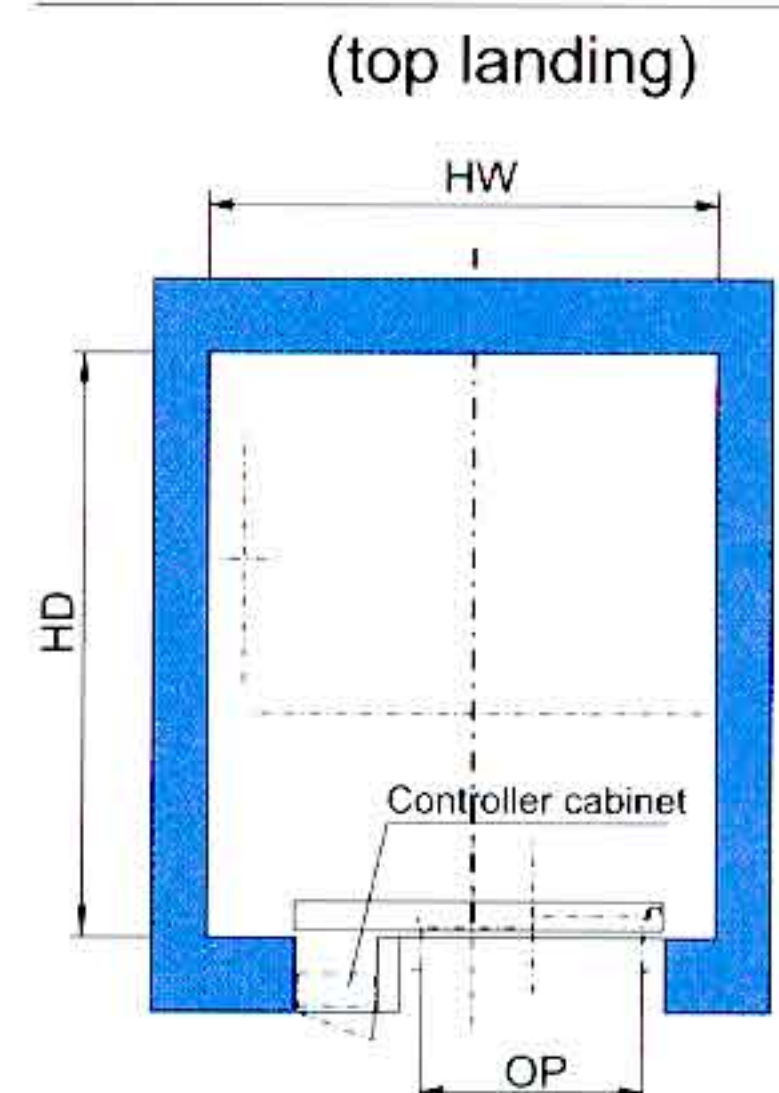
HOISTWAY PLAN (Simplex)



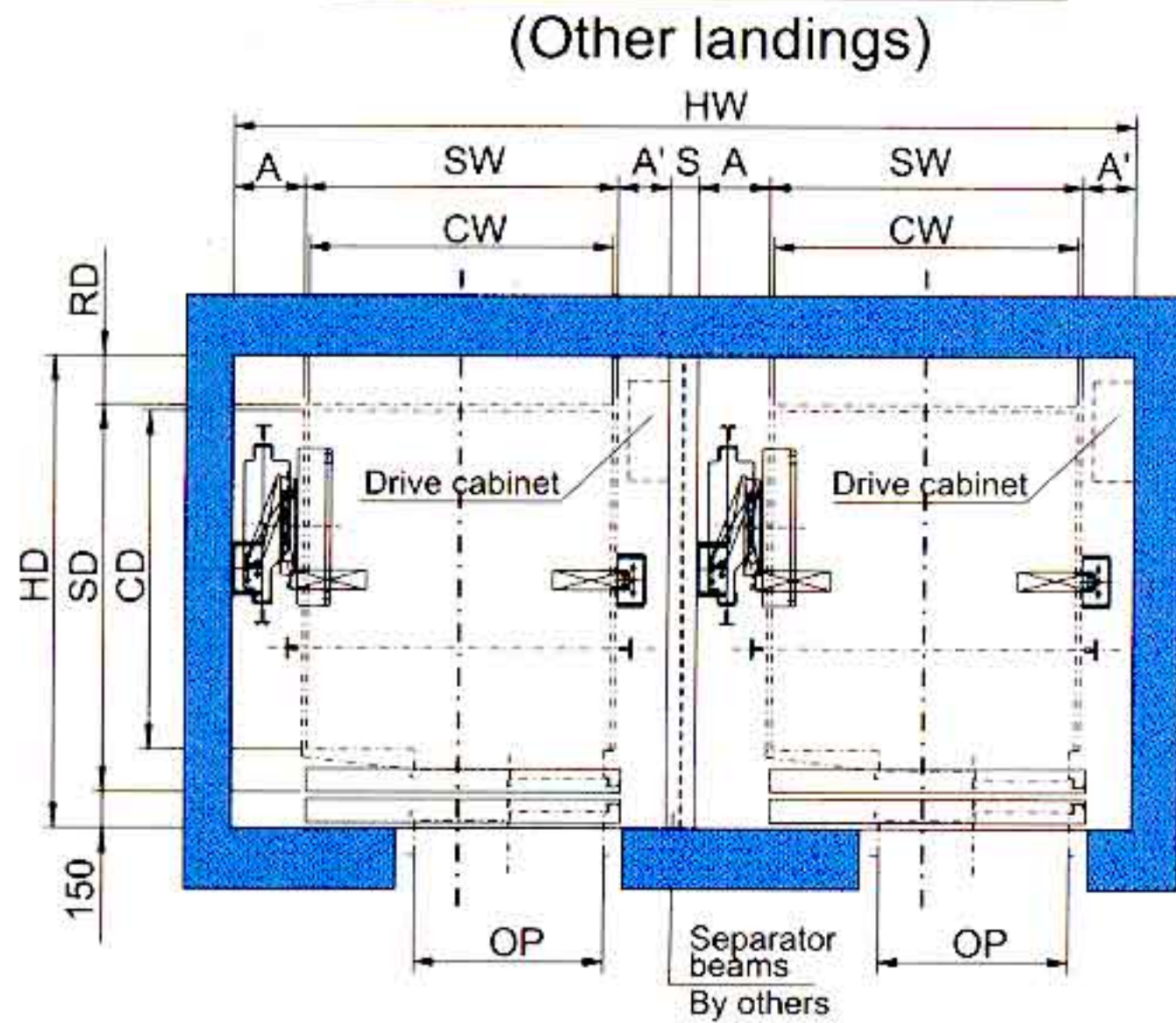
HOISTWAY TOP PLAN (Simplex)



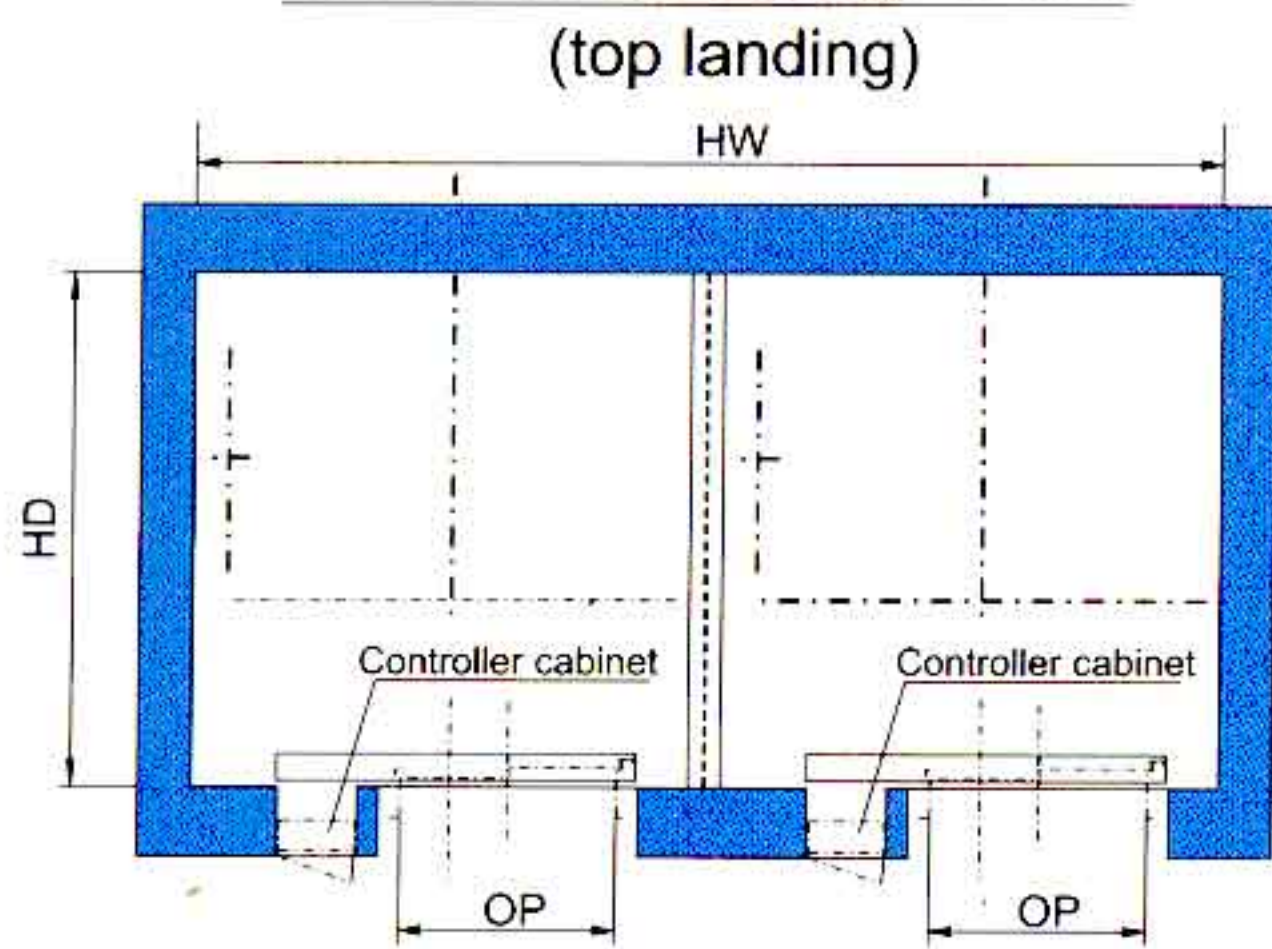
HOISTWAY PLAN (Simplex)



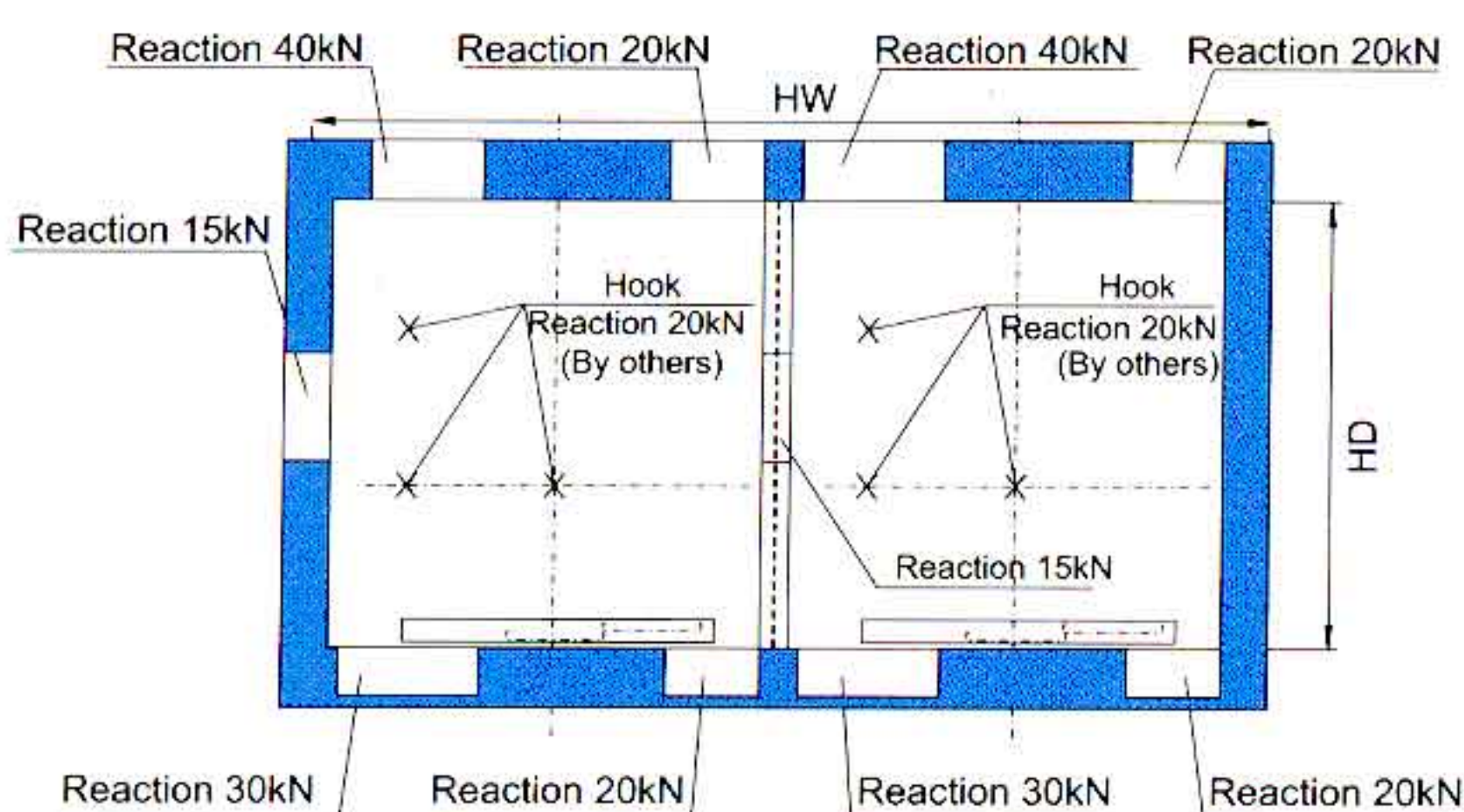
HOISTWAY PLAN (Duplex)



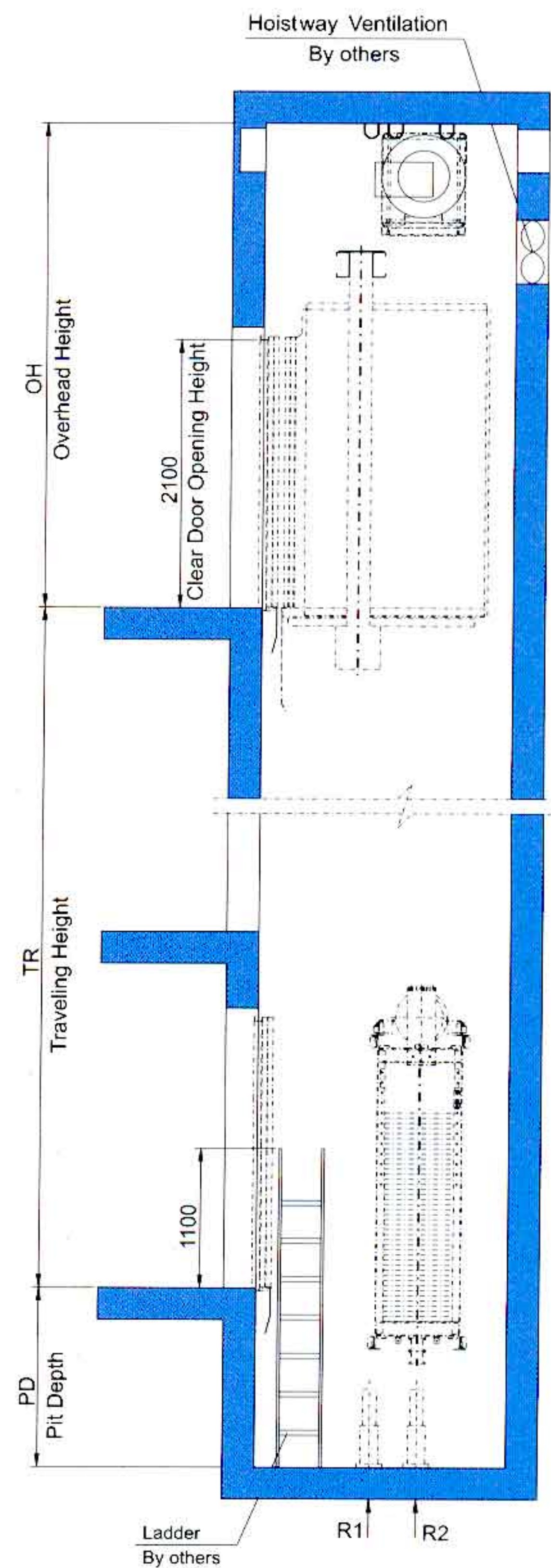
HOISTWAY PLAN (Duplex)



HOISTWAY TOP PLAN (Duplex)



HOISTWAY ELEVATION



NOTE:

1. Unit:mm
2. Above drawing is left side opening, right side opening is symmetrical to above drawing.

S820 Machine Room-less Elevator (B)

PLANNING GUIDE FOR DIMENSIONS

Unit: mm

Speed (m/min)	Capacity		Entrance Side Opening (mm)	Car Size		Dimensions in Hoistway				Hoistway Size				Pit Reaction	
	Person	Load (kg)		Inside	Outside	A	A'	RD	S	Simplex		Duplex		Load(kg)	
			CW*CD	SW*SD	HW					HD	HW	HD	R1	R2	
60	8	600	800	1100 × 1400	1150 × 1600	375	325	200	150	1850	1950	3850	1950	6700	5500
	9	680	800	1100 × 1550	1150 × 1750	375	325	200	150	1850	2100	3850	2100	7200	5800
90	10	750	800	1100 × 1650	1150 × 1850	375	325	200	150	1850	2200	3850	2200	7800	6300
105	10	800	800	1100 × 1750	1150 × 1950	375	325	200	150	1850	2300	3850	2300	8300	6700
	12	900	800	1100 × 1900	1150 × 2100	375	325	200	150	1850	2450	3850	2450	9200	7400
	13	1000	800	1100 × 2100	1150 × 2300	375	325	200	150	1850	2650	3850	2650	10100	8100

Unit: mm

Speed (m/min)	Capacity		Entrance Side Opening (mm)	Car Size		Dimensions in Hoistway				Hoistway Size				Pit Reaction	
	Person	Load (kg)		Inside	Outside	A	A'	RD	S	Simplex		Duplex		Load(kg)	
			CW*CD	SW*SD	HW					HD	HW	HD	R1	R2	
60	9	680	900	1200 × 1400	1250 × 1600	375	325	200	150	1950	1950	4050	1950	7200	5800
	10	750	900	1300 × 1400	1350 × 1600	375	325	200	150	2050	1950	4250	1950	7800	6300
90	10	800	900	1350 × 1400	1400 × 1600	375	325	200	150	2100	1950	4350	1950	8300	6700
105	12	900	1000	1500 × 1400	1550 × 1600	375	325	200	150	2250	1950	4650	1950	9200	7400
	13	1000	1000	1600 × 1400	1650 × 1600	375	325	200	150	2350	1950	4850	1950	10100	8100

OVERHEAD, PIT DEPTH

Speed (m/min)	Overhead OH (mm)	Pit Depth PD (mm)
60	4200	1450
90	4250	1500
105	4350	1600

ELECTRICAL DESIGN GUIDE

380V

Speed (m/min)	Capacity		Motor Capa. (kW)	MCCB Capacity of Building (A)		Power Supply Capacity(KVA)		Lead-in Wire Size (mm ²)		Earth Wire Size(mm ²)	Heat Output (kJ/H)	Starting Power (kVA/set)
	Person	Load (kg)		Simplex	Duplex	Simplex	Duplex	Simplex	Duplex			
60	8	600	3.7	16	20	5.3	10.6	2.5	4	2.5	1890	8.51
	9	680	5.6	16	32	7.8	15.6	2.5	4	2.5	2142	12.88
	10	750	5.6	16	32	7.8	15.6	2.5	4	2.5	2363	12.88
	10	800	5.6	16	32	7.8	15.6	2.5	4	2.5	2520	12.88
	12	900	5.6	16	32	7.8	15.6	2.5	4	2.5	2835	12.88
	13	1000	6.2	20	32	8.8	17.6	4	6	4	3150	14.26
90	8	600	9.2	32	50	13.1	26.2	6	10	6	2835	21.16
	9	680	9.2	32	50	13.1	26.2	6	10	6	3213	21.16
	10	750	9.2	32	50	13.1	26.2	6	10	6	3544	21.16
	10	800	9.2	32	50	13.1	26.2	6	10	6	3780	21.16
	12	900	9.2	32	50	13.1	26.2	6	10	6	4253	21.16
	13	1000	9.2	32	50	13.1	26.2	6	10	6	4725	21.16
105	8	600	11	32	50	13.4	26.8	6	10	6	3308	25.3
	9	680	11	32	50	13.4	26.8	6	10	6	3749	25.3
	10	750	11	32	50	13.4	26.8	6	10	6	4135	25.3
	10	800	11	32	50	13.4	26.8	6	10	6	4410	25.3
	12	900	11	32	50	13.4	26.8	6	10	6	4962	25.3
	13	1000	11	32	50	13.4	26.8	6	10	6	5513	25.3