



 **CRYSTAL ELEVATORS**

Manufacture, Installation & Servicing of all type of Elevators



CRYSTAL ELEVATORS is one of the South India's leading elevator company. As a step up in vertical integration based on the concerns of QUALITY, COST, TIMELY EXECUTION and DEPENDABLE SERVICE with a well experienced Engineers team. CRYSTAL ELEVATORS is a unique brand having the well experienced technical team having various multi national companies.

Our goal is to realize elevator with advanced technology of equipment, erection and commissioning with strong technical knowledge, good after service, supplying high quality products under strict quality control system. Following Bureau of Indian Standards (BIS) guide lines and guarantee excellent result in terms of safety performance and reliability.

The company owns the customers trust and praise. CRYSTAL ELEVATORS is ready to face the challenges of transporting people and vehicles within modern metropolitan buildings, with a complete equipment and flexible customization capabilities that today represents an international benchmark for quality.

Our services are available to the customers on 24x7 basis. Call back numbers, 2 wheelers and mobile phones are used for punctual and reliable services. We are competent to service all types of make elevators with a reasonable pricing.

Breakdown assistance

**8105541415**



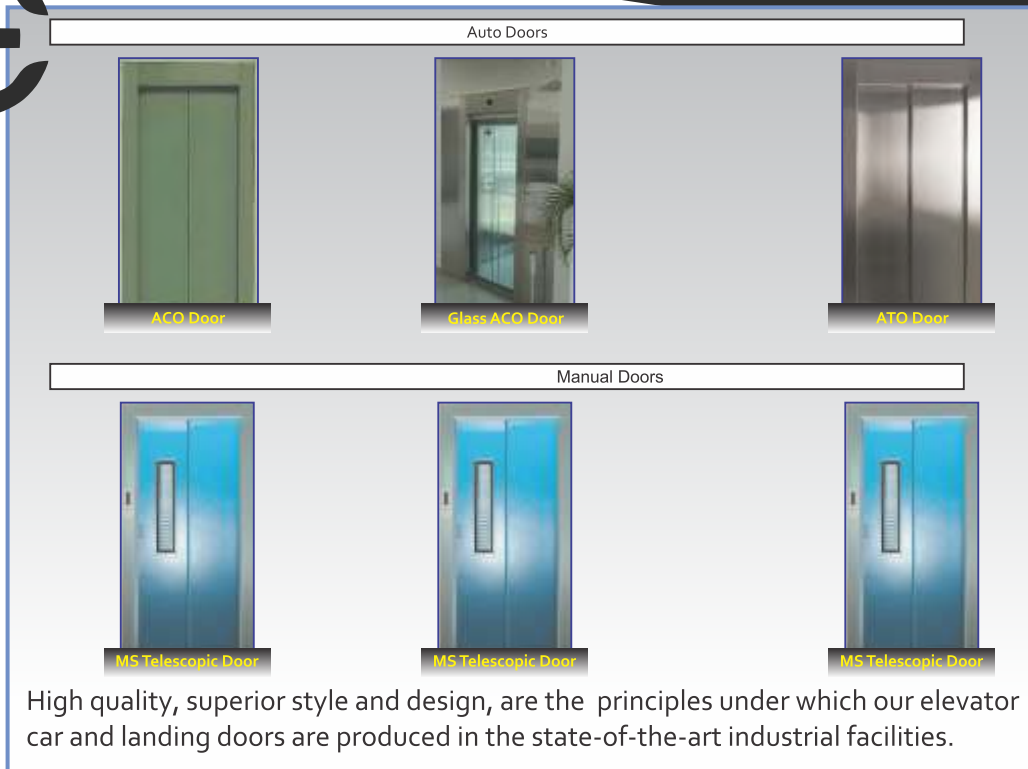
# Cabins / Car



We believe that the appearance of an elevator's interior can improve the morale of the passengers that it is carrying. We can design and install new elevator cabins and ceilings using stainless steel and powder coated mild steel that suits your building aesthetics.



# Elevator Doors



## Control Panels



**Microprocessor Controller**

- 16 bit micro-controller based single board design.
- Pure Sine Wave output fully digital settings.
- Trimptot less LCD gives complete insight of the various parameters, user friendly messages on the display.
- Door Operator - Any power operated doors or manual entrances.

Powered by 16 bit micro controller providing complex functionality.

- Wall mounted compact, space saving design.
- Position & Direction indicator in control panel to monitor car movement.
- Fireman operation with programmable floor electrically isolated power supply.



**Controller with ARD**

Our elevator controllers, acting as the "brain" of a lift system, are equipped with a microprocessor that is designed to operate in the most effective way.

Thanks to the technique of detachable boards and the flexible programming system.





**Geared Machine** (Three Phase)

- These machines are small, compact, light with great performance.
- All have worm of hardened ground steel.
- The crown is of centrifugally cast anti-friction bronze.
- The break is equipped with independent jaws as well as a twin magnetic circuit and is available in various voltage.

- Permanent magnets synchronous motor with Brush-less technology.
- High load capacity.
- Silent & Jerk free ride.
- Comfort Safety.
- Energy Saving.
- Maximum static load up to 200 kg & speed up to 2 m/s



**Gearless Machine** (Single & Three Phase)

Our Traction Machines are manufactured in strict accordance to its uncompromising quality control methods right from the initial stage of procurement of raw material to the final stage of the testing, inspection and dispatch to customers and in keeping with the latest technology.





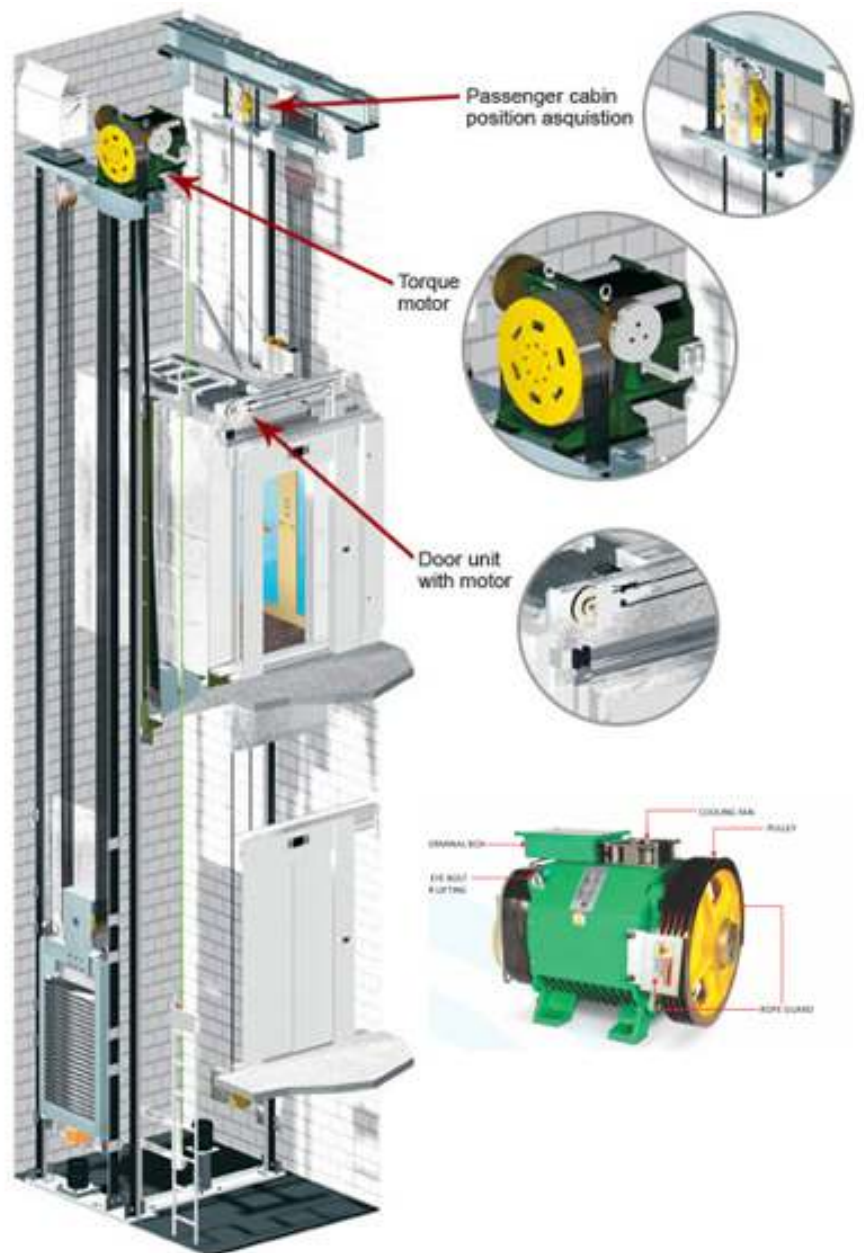
## Integrated Drive



## Fuji Drive



## MRL ELEVATOR CROSS SECTION





- Attractive Front Plate of SS304
- Available on different kinds of plate finish i.e. Hairline, Mirror, Anodize etc.
- Available in various kind of attractive push buttons.
- Display varieties like 7-Segment, Dot Matrix LCD, TFT available .
- Emergency Light, Push to Talk(Intercom) can be Incorporated.
- Interfacing of RF ID & Biometric Based access.
- Customized Length & fixing arrangement.

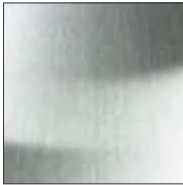




# Sheet Designs



GOLD Hairline



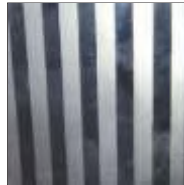
Hairline



NTEX05



TE01



TE2



TE03



TE4



TE06



Y3D 01



Y3D 02



Y3D 03



Y3D 04



Y3D 05



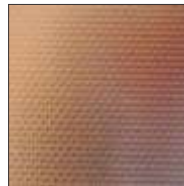
Y3D 06



YCheq 02



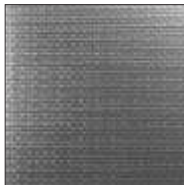
Ycheq1



YTEX 01(Bronze)



YTEX01 E



YTEX01



YTEX02



YTEX02E



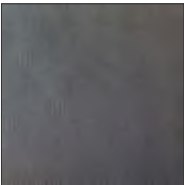
YTEX03



YTEX03E



YTEX04E



YTEX05



YTEX05E



YTEX06



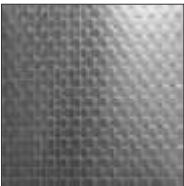
YTEX07



YTEX08



YTEX09



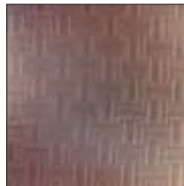
YTEX10



YTEX11



YTEX12



YTEX13



YTEX14



YTEX15



# False Ceiling and Handrails



# Elevator Types



TYPES OF ELEVATOR			
Sl. No.	Specification	Lift Capacity	Speed
1	Passenger elevators	4 to 29 persons	1.0 to 2.5 MPS
2	Observation elevators(also referred capsule/ scenic/ panoramic)	6 to 20 persons	1.0 to 2.5 MPS
3	Goods or freight elevators	500 Kgs to 5000 Kgs	Up to 0.75 MPS
4	Hospital bed or stretcher elevators	15 to 26 person	Up to 1.5 MPS
5	Dumbwaiters	100 Kgs to 250 Kgs	Up to 0.3 MPS
6	Home elevators	4 persons	Up to 0.4 MPS
7	Stair lifts	Customized in KGS	NA

TYPES OF MACHINES	
➤ Gearless PMSM (Permanent Magnet Synchronous Moto)	➤ Conventional geared traction
➤ MRL (Machine Room Less) gearless PMSM	➤ Hydraulic Machine Unit
TYPES OF OPERATION	
➤ Down Collective/ Full Collective	➤ Simplex/ duplex/ triplex

TYPES OF DOORS
➤ Canter Opening Automatic VVVF, of 2 panels for passenger elevators and 4 panels for goods elevators.
➤ Telescopic (side opening) automatic VVVF, 2 and 3 panel options.
➤ Semi Auto – Telescopic Auto in car and Swing Door in landings.
➤ Manual Imperforated in car, Imperforated or Swing Doors in landings.
➤ Doors in SS with a range of finish options and in MS with standard painting and powder coating options.

KEY SAFETY FEATURES
➤ ARD (Automatic Rescue Device) using sealed SMF batteries.
➤ Full height multi-beam (154 beams) infrared door safety.
➤ Over speed governor.
➤ Close loop encoder feedback for smooth and jerk free landing with V3F drive.
➤ Automatic doors too with V3F drive and close loop encoder feedback, for smooth Door operation
➤ Overload warning



# Elevator Specification



## PASSENGER ELEVATORS

Load		Car Inside		Lift Well		Entrance	Machine Room		Door type
Persons	Kg	A	B	C	D	E	K	L	L
4	272	1100	700	1600	1200	800	3100	3600	Manual
5	340	1100	900	1600	1400	800	3100	3600	Manual
6	408	1100	1000	1600	1500	800	3100	3900	Manual
8	544	1300	1100	1800	1600	800	3300	4050	Manual
4	272	1100	700	1600	1350	700	3100	3850	Automatic
5	340	1100	900	1600	1500	700	3100	4000	Automatic
6	408	1100	1000	1900	1600	800	3400	4100	Automatic
8	544	1300	1100	1900	1900	800	3400	4400	Automatic
10	680	1350	1300	1900	2100	800	3400	4600	Automatic
13	844	2000	1100	2500	1900	900	4000	4400	Automatic
16	1088	2000	1300	2500	2100	1000	4000	4600	Automatic
20	1360	2000	1550	2500	2400	1000	4000	4900	Automatic
26	1768	2100	1800	2600	2500	1100	4200	5000	Automatic

## FREIGHT ELEVATORS

Load		Car Inside		Lift Well		Entrance	Machine Room		M/C Room
Load in Kgs		A	B	C	D	E*	K	L	Height
800		1550	1500	2000	2000	900	2500	4500	2300
1000		1400	1800	2300	2100	1400	2500	4600	2300
1500		1700	2000	2600	2300	1700	2600	4800	2300
2000		1700	2500	2600	2800	1700	2600	5300	2300
2500		2000	2500	2800	2750	2000	2800	4700	2300
3000		2000	3000	2900	3300	2000	2900	5800	2300
4000		2500	3000	3400	3300	2500	3400	5800	2300
5000		2500	3600	3400	3900	2500	3400	6400	2300

\* Clear Entrance width is based on Vertical Lifting Car Door and Vertical Bi-parting doors. For Collapsible Mid Bar Doors, the clear entrance width will be reduced by 200mm (max 1200 mm).

## HOSPITAL ELEVATORS

Load		Car Inside		Lift Well		Entrance	Machine Room		M/C Room
Persons	Kgs	A	B	C	D	E	K	L	Height
15	1020	950	2400	1700	3000	800	3700	5500	2300
20	1360	1300	2400	2200	3000	1200	4200	5500	2300
20	1768	1600	2400	2350	3000	1200	4350	5500	2300

## SERVICE ELEVATORS / DUMB WAITER

Load	Car speed	Car Inside		Lift Well		Entrance	Machine Room		M/C Room
Load in kgs	M.P.S.	A	B	C	D	E*	K	L	Height
100	0.50	700	700	1200	900	700	1200	1150	2300
150	0.50	800	800	1300	1000	800	1300	1150	2300
200	0.50	900	900	1400	1100	900	1400	1150	2300
250	0.70	1000	1000	1500	1200	1000	1500	1200	2300

Speed (MPS)	Pit Depth	Overhead
Upto 1.50	1600	4800
Over 1.50 upto 2.5	2600	5700
Over 2.5	2600	6700

\*\* All hoistway walls should be minimum 230 Brick or 150 RCC.

\* All dimensions are in mm.

Any picture shown in this brochure is indicative only





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