

MACHINE ROOMLESS ELEVATORS

MRL Elevators

Eltouny Elevators Company Since 1964

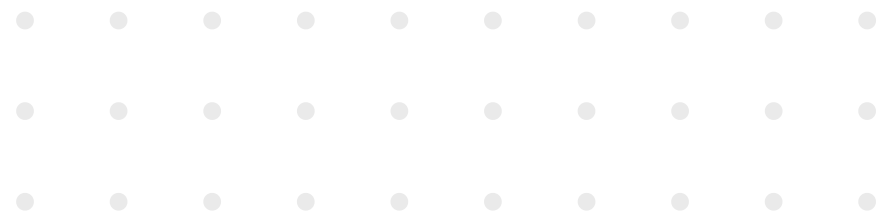




MACHINE ROOM-LESS ELEVATOR

Engineered for low-mid rise applications. Offering a smooth and quiet ride while saving space and energy.

- Energy Efficient
- Space Saving
- Easy to Plan and Install & Cost Effective
- Flawless Ride
- Quiet
- Stylish
- Return on Investment

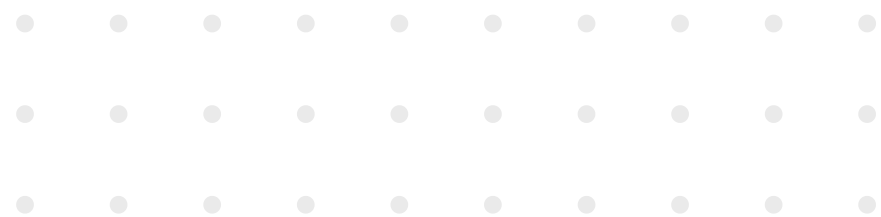
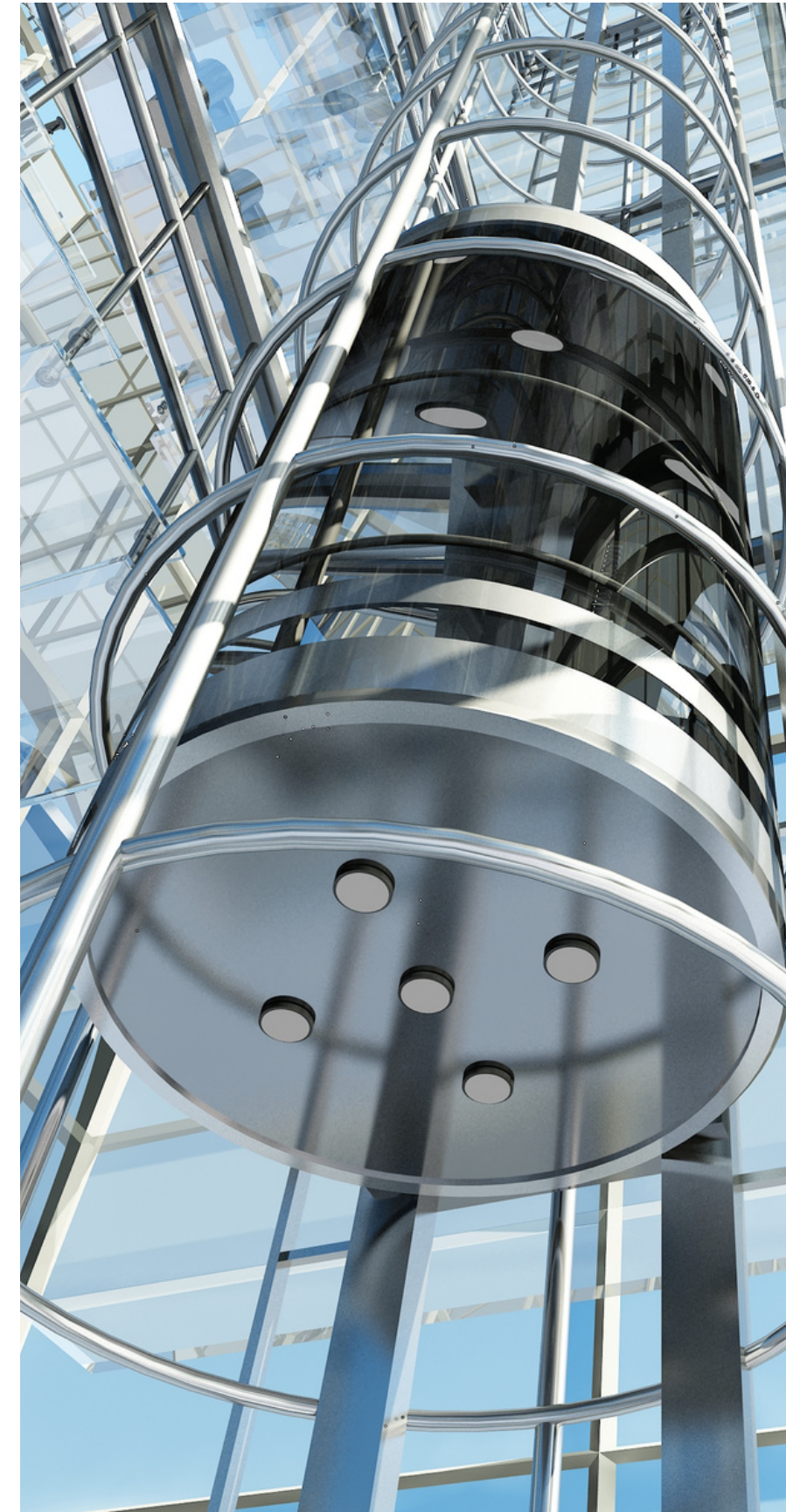


COMPACT DESIGN WITH REDUCED DIMENSIONS

The MRL makes optimal use of available shaft space and, depending on rated load, rated speed and the height of the car. It can be installed in any type of shaft with a pit depth starting at 1050 mm (for 1 m/s and $\leq 630\text{kg}$) or 1200 mm (for 1,6 m/s and $\leq 630\text{kg}$),

and headroom starting at just 3400 mm (for 1 m/s and $\leq 630\text{kg}$) or 3600 mm (for 1,6 m/s and $\leq 630\text{kg}$).

The MRL uses smaller bed plates and gearless drives, which offer smaller dimensions through the use of reduced rope diameters with smaller traction sheaves (240 mm for rated loads up to 630 kg, and 320 mm for rated loads up to 1050 kg and 400 mm for rated loads up to 2500 kg).





HIGH PERFORMANCE

MRL solutions provides reliable operation, outstanding traffic performance and a smooth ride. The ride quality is the result of the motor's low rotational speeds. The V3F variable frequency drive prevents current peaks and ensures excellent stopping accuracy, making it easier and safer to load and unload.

SPACE EFFICIENT

MRL elevator needs no machine-room at all. this means:

- Easier positioning of the elevator in the building.
- Reduced building construction time and costs.
- More efficient, safer installation processes.
- Up to 30m³ extra building space that can be used more profitably.





NO OIL & LOW ENERGY USAGE

The low friction reduces wear, so it increases the reliability and durability of the machine. It is also compact and eco-efficient – it consumes half as much electricity as a conventional hydraulic machine. And no oil is required, reducing fire risk and environmental impact.

EASY LOADING & UNLOADING

Gearless machines feature quiet operation, smooth running to protect fragile loads and $\pm 5\text{mm}$ leveling accuracy to make loading and unloading easier.





A SILENT AND COMFORTABLE RIDE

Through the combination of highly efficient mechanical and electrical components , use of isolation pads, drive control by means of a frequency inverter, balanced rope arrangement and low friction sliding guide shoes, it has been possible to obtain a high ride comfort and low noise levels. The noise level perceived by the passenger from inside the car is limited to 50 dba.

WIDE LOAD RANGE

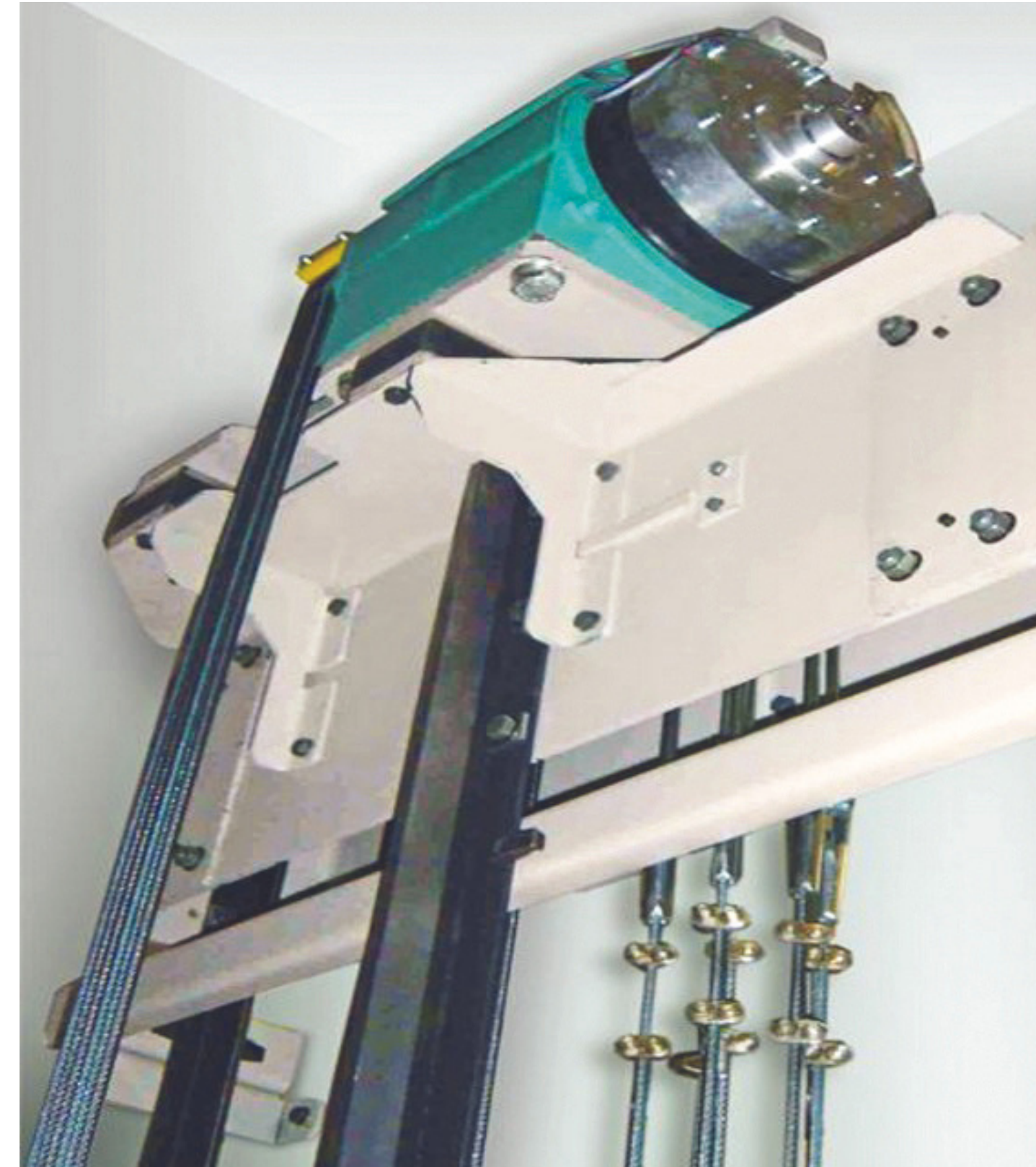
MRL elevator solution is available in different car sizes to transport people & freight of various sizes and loads. With a maximum load capacity of 1000 kg, it can meet virtually every freight transportation requirement in a variety of building types.



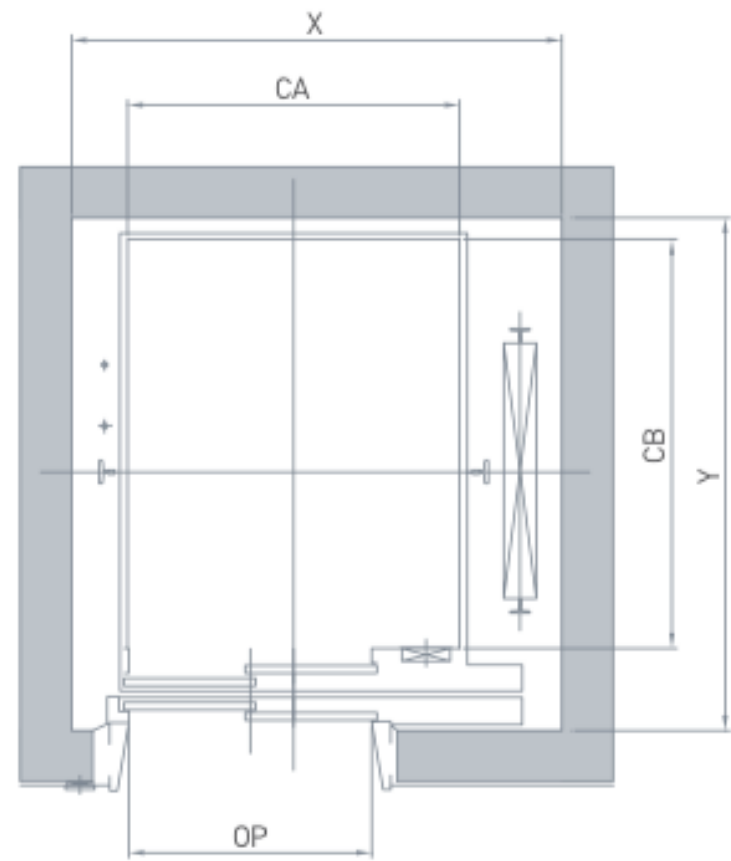
MACHINE ROOM-LESS LIFT SYSTEM

320KG • 400KG • 450KG • 630KG • 800KG • 1000KG

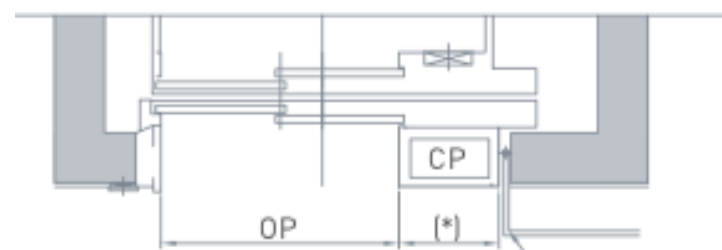
- Pre Engineered layout drawings.
- Reduced installation time.
- The bigger part of loads are derived in the shaft pit.
- Minimal shaft dimensions.
- Low energy consumption.
- Environmental friendly solutions.
- Low maintenance.
- Customized solutions for special needs.



PLANNING GUIDE

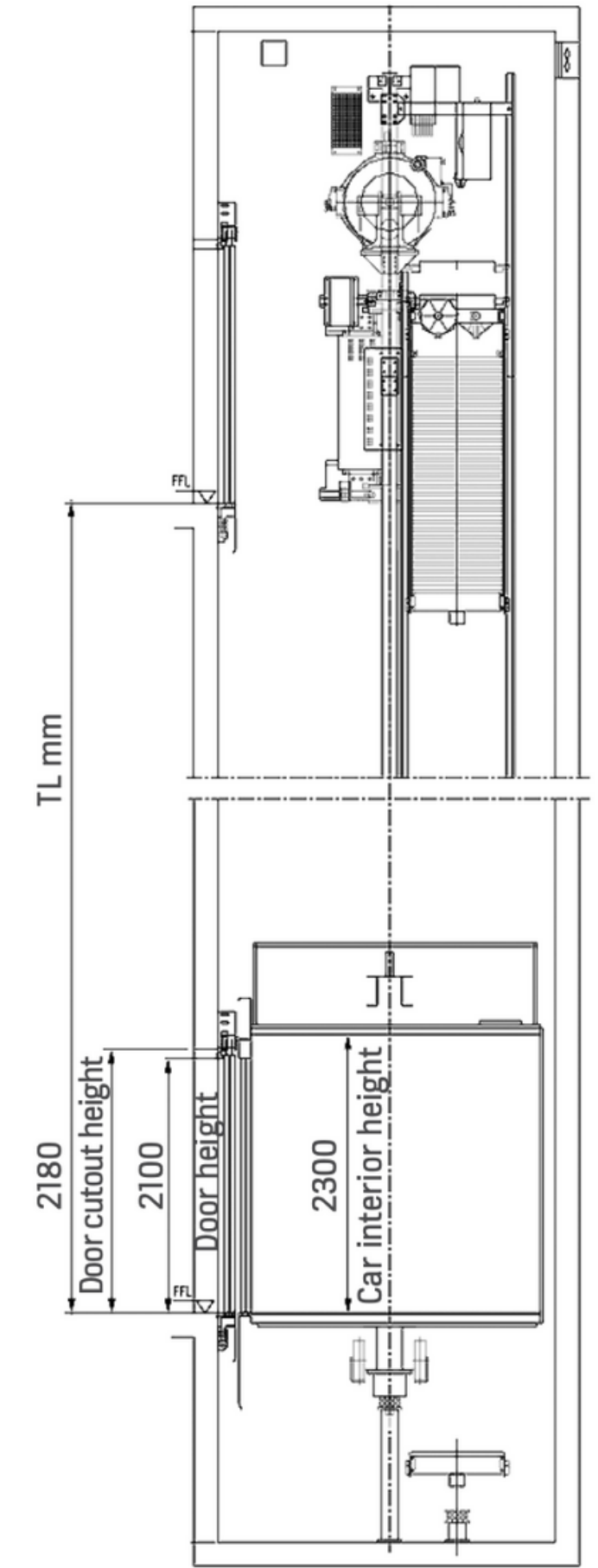
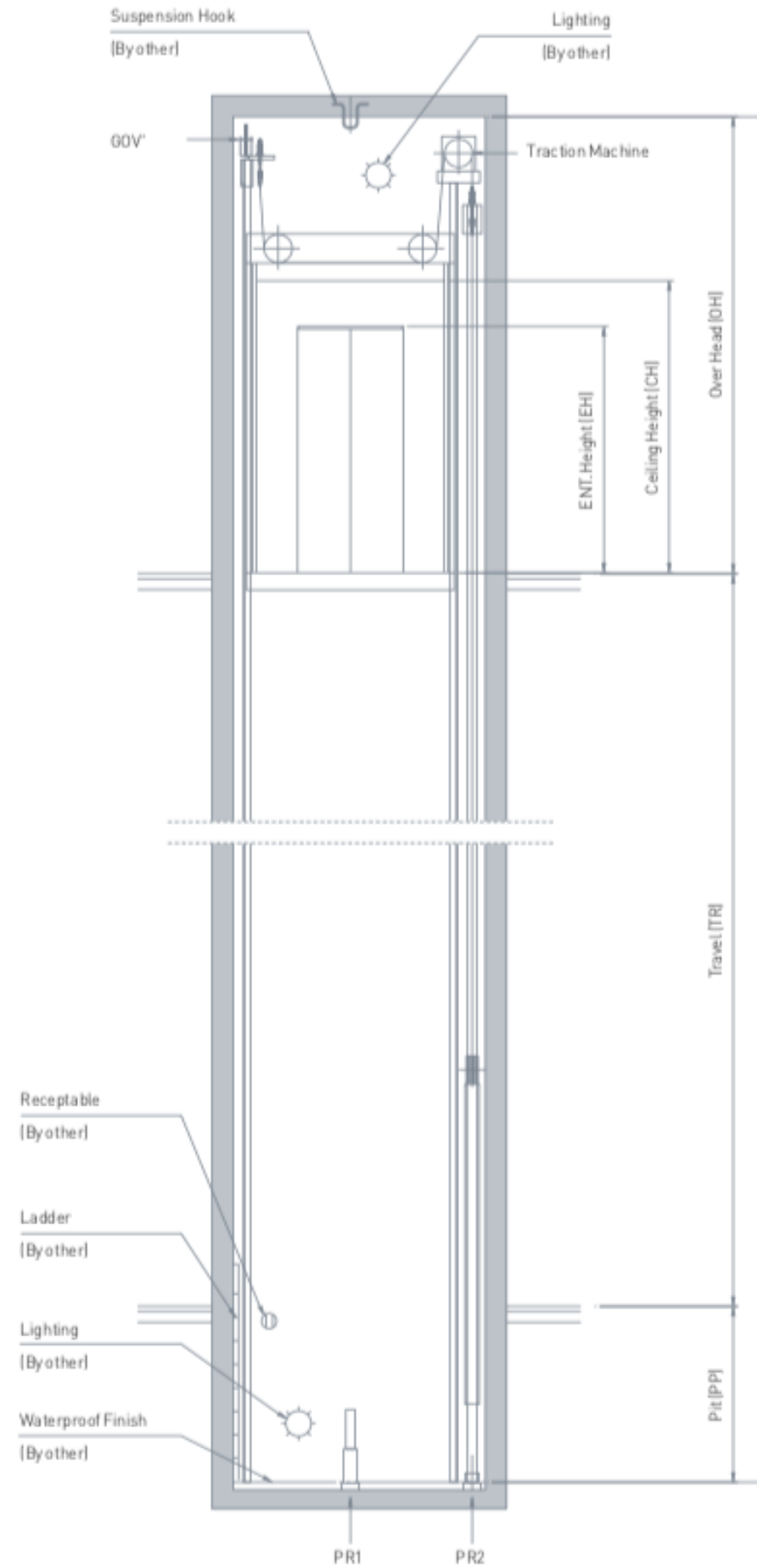


[TYPICAL FLOORS]

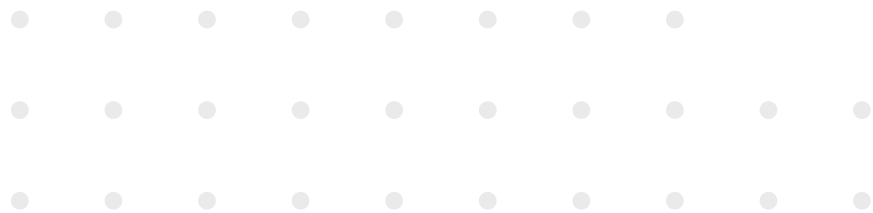


[TOP FLOOR]

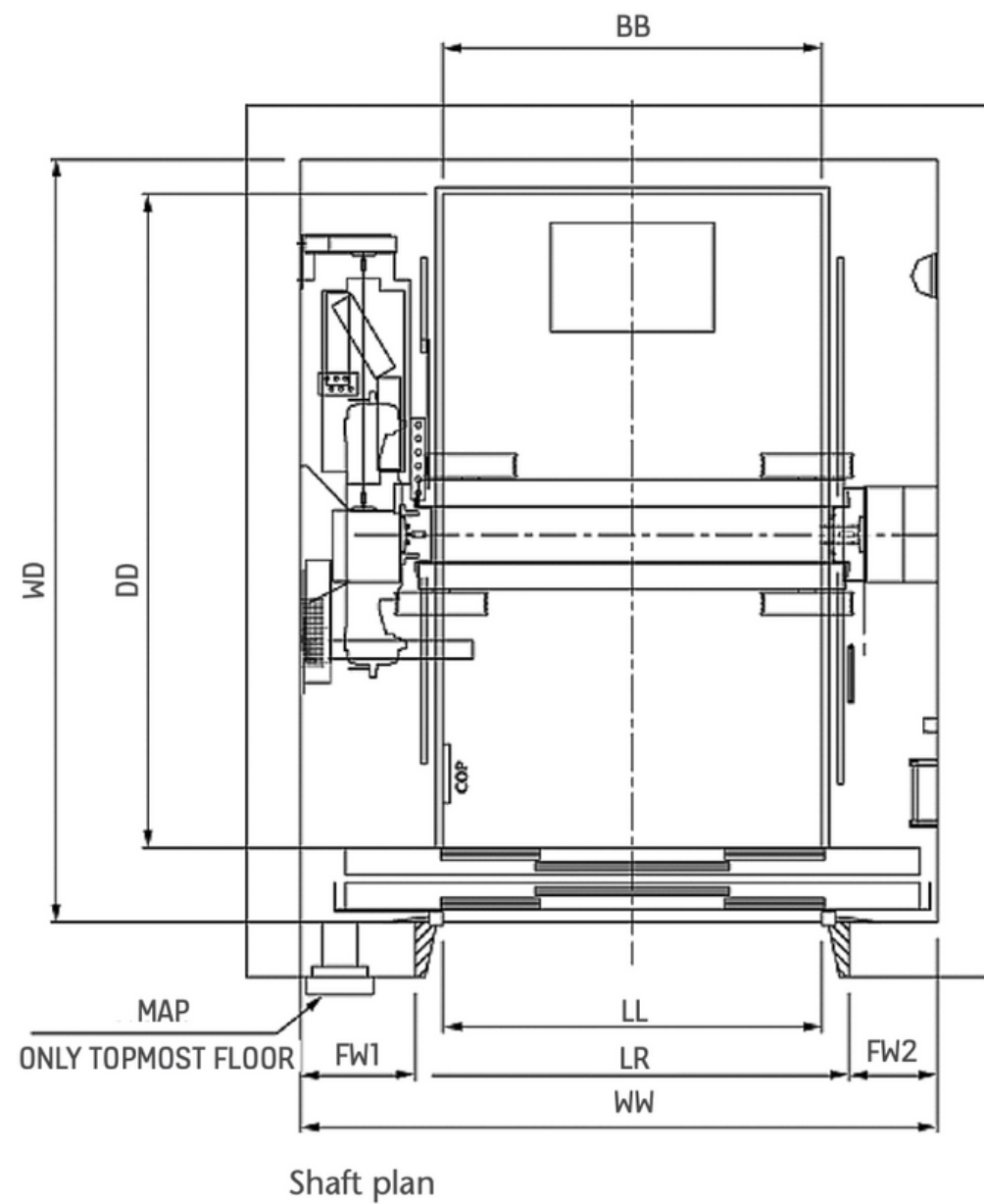
Distribution Board
(By other)



Shaft dimensions



MRL MAIN SPECIFICATIONS



Load Capacity (kg)
up to 1000kg



Speed (m/s)
0.63 m/s – 1.6 m/s



Max. Travel (m)
Up to 40



No. of floors
Up to 12



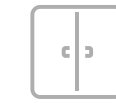
Control
Down or full collective



Group Size
Simplex or duplex



Hoisting Machine
Gearless



Doors
Semi Automatic / Automatic



Suspension
2:1



Car Frame
Inversed L Frame

MRL MAIN SPECIFICATIONS

Passangers	Rated load (kg)	Car weight (kg)	Rated speed (m/s)	Car internal dimension (mm)	Door width (mm)	Door opening	Clear well (mm)	Min.well pit (mm)	Min.headroom (mm)
2	175	680	1	800x900	700	S	1360X1275	1100	3630
4	320	750	1	900x1000	700	S	1460X1375	1100	3630
6	450	830	1	1000x1200	800	S	1565X1625	1100	3630
8	630	910	1 /1.6	1100x1400	900		1665X1775	1100X1200	3630X3780
10	800	990	1 /1.6	1350x1400	900	C	1940X1745	1100X1200	3670X3820
13	1000	1090	1 /1.6	1600x1400	1100	C	2340X1745	1100X1200	3670X3820

Minimum floor distance (s) = clear door height (PL) + 475 mm


C	Central opening car and landing door
S	Side opening car and landing doors





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