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**GMV worldwide**



GMV's quality systems are certified. Furthermore, we have introduced the "6 sigma" concept as a total quality philosophy, up to the complete testing of the products.

This document is for information purposes only. We reserve the right to modify at any time the reported specifications, without notice. We recommend that you view actual samples of car finishes, as there may be slight differences to those illustrated in the brochure.

09.2019



More than 800.000 lifts worldwide with GMV technology



# GREEN LIFT TRACTION MRL

## MAIN REASONS FOR CHOOSING GREEN LIFT TRACTION MRL

1

### REDUCED SHAFT DIMENSION WITH NO PROJECT LIMIT

- Significantly less space required for the lift system in the **GLT Omega Extra Slim** version (mechanics on counterweight side reduced to 195 mm)  
It is thus possible to obtain a larger car size with the same shaft width or, vice versa, narrower shafts with the same car width.
- **Car and frame with variable size**
- Available in MRL version or with machine room
- Available in version with reduced pit and/or headroom (EN 81.21)
- **GLT Sigma** version available with adjacent entrances

2

### HIGH QUALITY, WHICH PERMITS TO EXTEND THE WARRANTY PERIOD UP TO 10 YEARS

GMV, with its heritage, competences and know-how, is sure of the quality of its products and is the only lift manufacturer company to offer the possibility to have a 10 Years Warranty Extension.

3

### SAFETY

- **All the electrical equipment** in the GLT MRL version is located **outside the shaft**, housed in a specific cabinet above the floor door that can be easily accessed to perform maintenance, repair and emergency operations in complete safety.
- Use of over speed governor with car parking anti-drift on the floor.

4

### CONFORT AND ENERGY EFFICIENCY

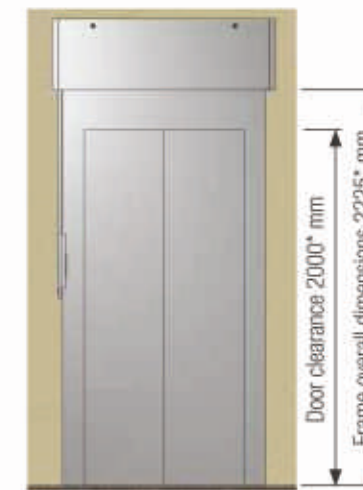
Smooth acceleration and deceleration, floor levelling and low vibrations, thanks to VVF encoder control.

#### Reduced energy consumption, thanks to:

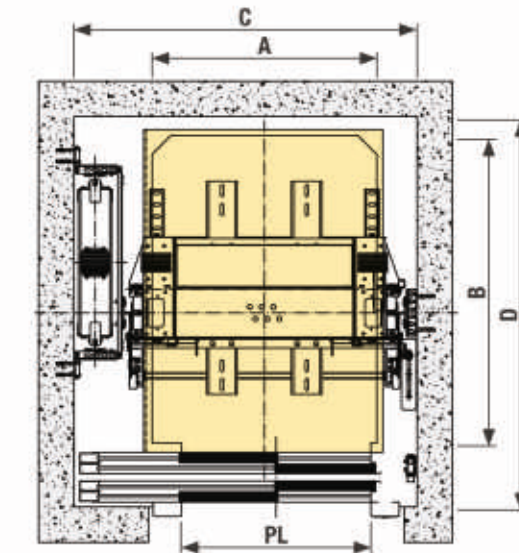
- Gearless machine
- LED lightning with standby function (reduced consumption up 75% and 10 times extended duration compared to traditional lights)



FRONT VIEW  
(door with control panel cabinet)



SHAFT PLAN



Control panel cabinet dimensions:  
height 400 mm; depth 250 mm; length 1200 mm.

(\*) Door clearance 2100 mm with frame overall dimensions 2325 mm on request

### STANDARD DIMENSIONS

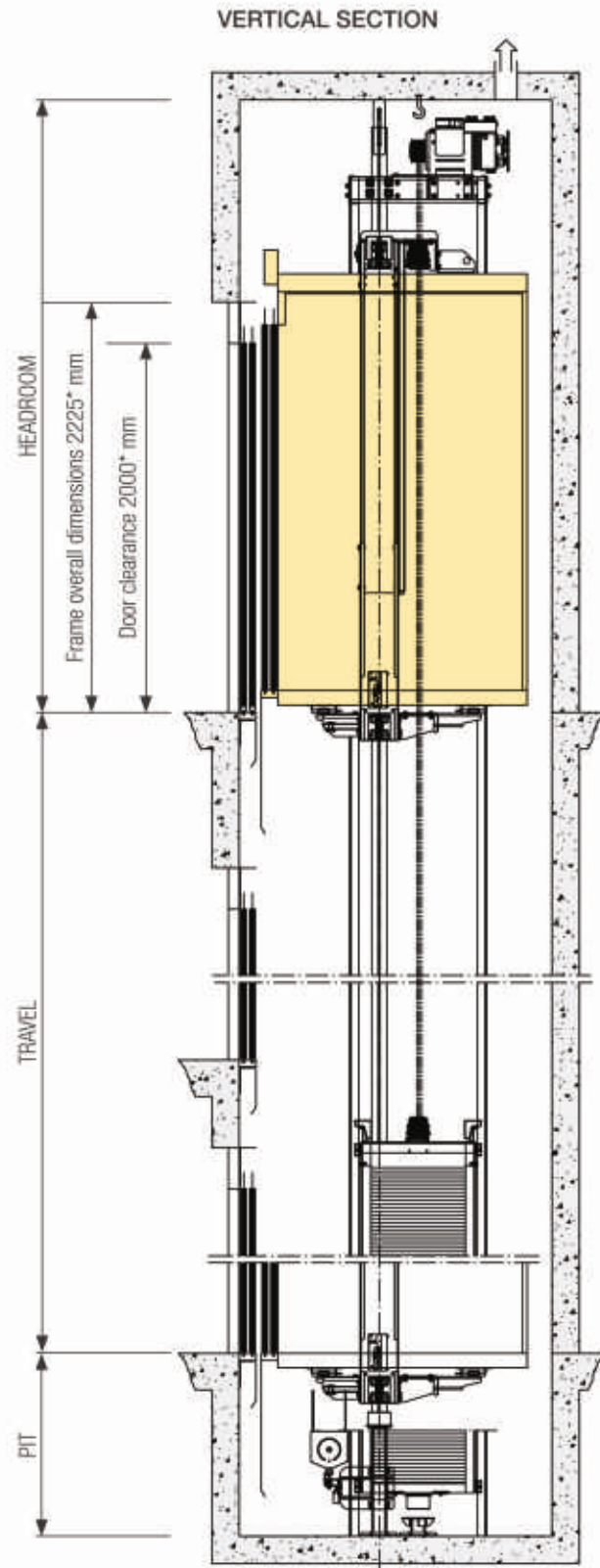
Payload [kg]	No. of passengers	Car dimensions [mm]		Entrances [No.]	Clear door opening [mm]	Min. shaft dimensions with doors opening at side [mm]	
		A	B			PL	C
350	4	800 (**)	1200 (**)	1	750	1400	1550
				2 opposite	750	1400	1740
450	6	950 (**)	1300 (**)	1	800/850/900	1450/1550/1600	1650
				2 opposite	800/850/900	1450/1550/1600	1840
		1000 (*)	1250 (*)	1	800/850/900	1500/1550/1600	1600
				2 opposite	800/850/900	1500/1550/1600	1790
		1000 (*)	1300 (*)	1	800/850/900	1500/1550/1600	1650
				2 opposite	800/850/900	1500/1550/1600	1840
630	8	1100 (*)	1400 (*)	1	800/900	1600/1650	1750
				2 opposite	800/900	1600/1650	1940
900	12	1400 (*)	1500 (*)	1	900/1000	1950	1850
				2 opposite	900/1000	1950	2040
1000	13	1100 (*)	2110 (*)	1	900	1650	2460
				2 opposite	900	1650	2650
				1	1000	1800	2650
				2 opposite	1000	1800	2650

Non-contractual information subject to shaft conditions. The shaft dimensions refer to lead shafts. The measurements shown in the table are indicative. For any feasibility study, contact the GMV sales office. The minimum shaft width for lifts complying with EN 81.21 may vary slightly with respect to the standard one shown in the table. The car dimensions indicated in the table with the symbol (\*) comply with both EN 81.70 standard and law 13/89; those indicated with the symbol (\*\*) comply with law 13/89. For car sizes not shown in the table, contact the GMV sales office. Central openings doors available, contact the GMV sales office. **GLT Sigma** version available with adjacent entrances, contact the GMV sales office.

Concerning variations, finishes and payloads described in this brochure, GMV is able to supply **SYSTEMS WITH STANDARD DIMENSIONS** (see table above in relation to GLT Omega Extra Slim variant), but also, thanks to the continuous step designed frame and car, "**VARIABLE SIZE SYSTEMS**", i.e. with car sizes that can vary with "10 mm" step. In addition to the categories indicated, GMV offers "**NON-STANDARD SYSTEMS**" for which it is required to contact the GMV sales office.

## GLT OMEGA SLIM VERSION

> 2 :1 traction lift with counterweight behind the car guide



SPEED (m/s)	1	
NO. OF STOPS	2 ÷ 15	
CAR TRAVEL (m)	3 ÷ 45	
MIN. HEADROOM (mm)	Standard	3400
	Reduced	2500
MIN. PIT (mm)	Standard	1000
	Reduced	480

(\*) Door clearance 2100 mm with frame overall dimensions 2325 mm on request.



### GREEN LIFT TRACTION MRL ADVANTAGES:

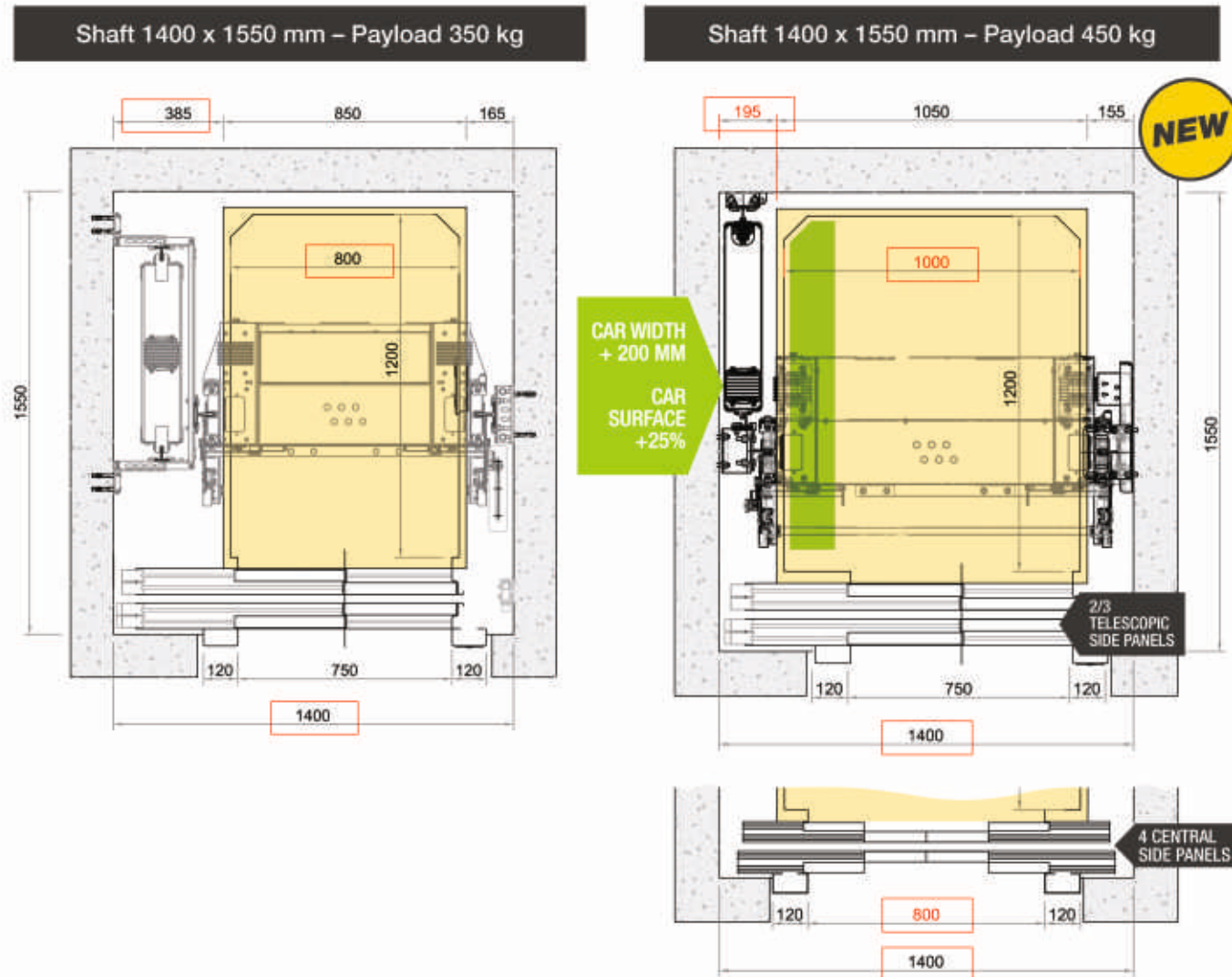
- **COMPETITIVE PRICE**  
compared to electric machine room less (MRL) lifts
- **NO DOWNFORCES ON BUILDING STRUCTURE**  
thanks to machine positioning, on top of guide rails, that drives forces down to the pit
- **DESIGN AND CAR FINISHES:**  
wide range of colours and materials choice available for car and doors finishes, to better integrate the lift into the architectural context of the building
- **EASY REPERIBLE SPARE PARTS**  
Technical information, spare parts, technical tools required for its maintenance and programming are readily available from the manufacturer at the right price
- **LOW INSTALLATION COSTS**
- **RELIABLE MAINTENANCE SERVICE**

**WARRANTY EXTENSION TO 10 YEARS** is assurance of the quality of the lift - because guarantee means quality - and the assurance of having spare parts available for 10 years. It guarantees maximum efficiency and contained costs.

## ADVANTAGES OF GLT OMEGA EXTRA SLIM VERSION

The line of GLT Omega Extra Slim traction lifts differentiates itself for having the counterweight positioned next to the car guide and not behind it. The counterweight pulley is decentralised and placed on the axis of symmetry of those of the car (GMV patent). It is thus possible to obtain a larger car size with the same shaft width or, vice versa, narrower shafts with the same car width. **This solution is particularly suitable for use in renovations.**

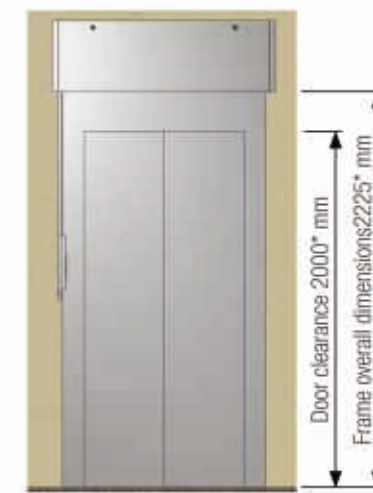
### EXAMPLE 1



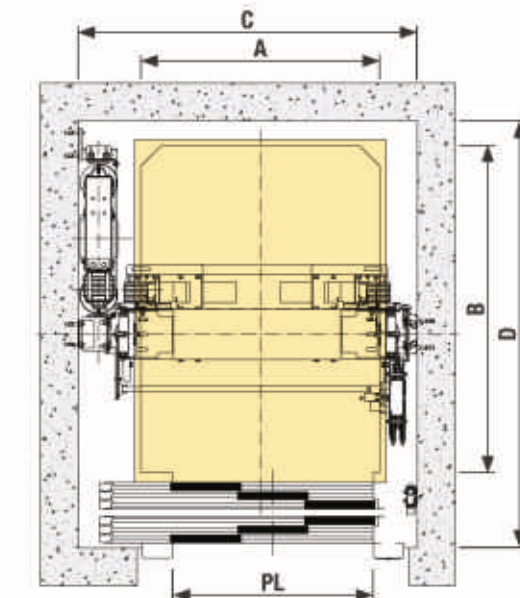
**GLT Omega Slim** traction lift with ring-shaped frame and counterweight behind the car guide. Counterweight pulley and car pulleys are located on the same axis of symmetry (**GMV patent**).

**GLT Omega Extra Slim** traction lift with ring-shaped frame, with wider car and greater door clearance, thanks to the counterweight next to the car guide and decentralised counterweight pulley placed on the same axis of symmetry as those of the car (**GMV patent**).

**FRONT VIEW**  
(door with control panel cabinet)



**SHAFT PLAN**



Control panel cabinet dimensions:  
height 400 mm; depth 250 mm; length 1200 mm.

(\*) Door clearance 2100 mm with frame overall dimensions 2325 mm on request.

### STANDARD DIMENSIONS WITH 3AT DOORS (2AT WHERE WRITTEN IN BLUE)

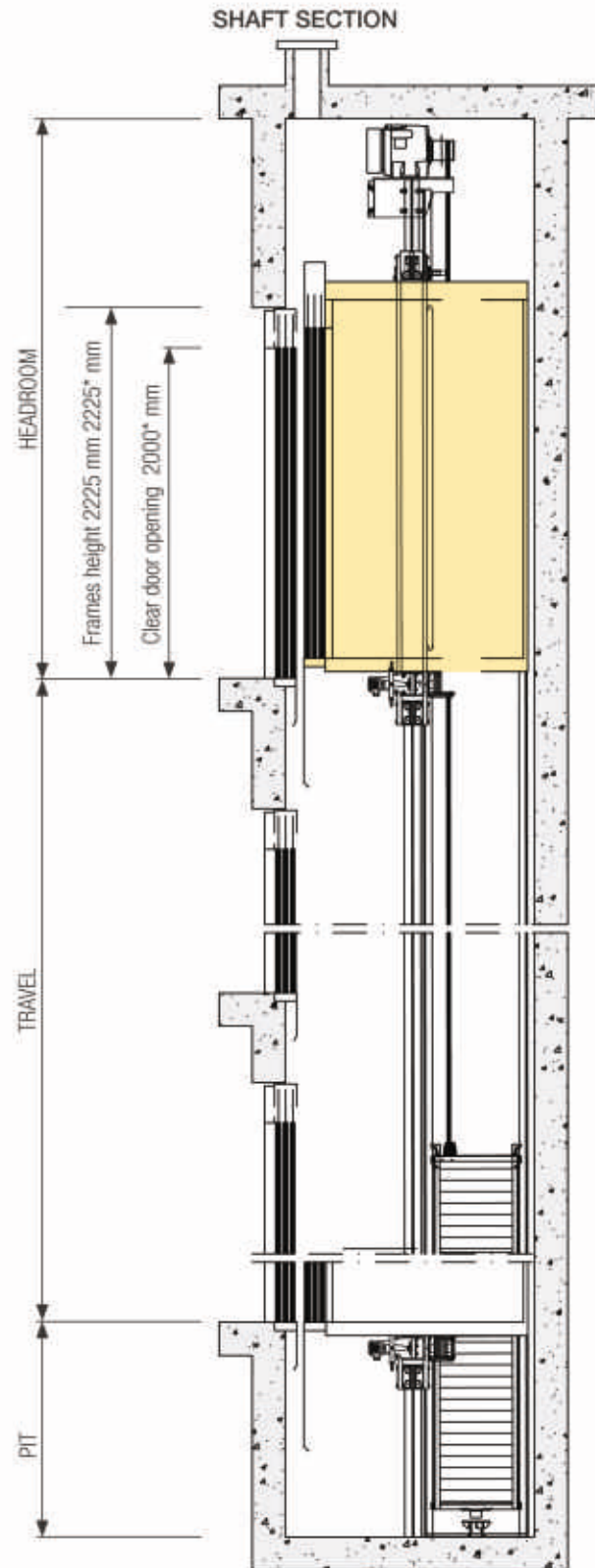
Payload [kg]	No. of passengers	Car dimensions [mm]		Entrances [No.]	Clear door opening [mm]	Min. shaft dimensions with doors opening at side [mm]	
		A	B		PL	C	D
350	4	800 (*)	1200 (**)	1	750	1250	1600
				2 opposite	750	1250	1800
450	6	950 (**)	1300 (**)	1	800/850/900	1350/1400/1450	1700
				2 opposite	800/850/900	1350/1400/1450	1900
		1000 (*)	1250 (*)	1	800/850/900	1400/1400/1450	1650
				2 opposite	800/850/900	1400/1400/1450	1850
630	8	1100 (*)	1400 (*)	1	800/900	1500	1750/1800
				2 opposite	800/900	1500	1940/2000
900	12	1400 (*)	1500 (*)	1	900/1000	1850	1850
				2 opposite	900/1000	1850	2040
1000	13	1100 (*)	2110 (*)	1	900/1000	1550/1600	2500
				2 opposite	900/1000	1550/1600	2710

Non-contractual information subject to shaft conditions. The shaft dimensions refer to lead shafts. The measurements shown in the table are indicative. For any feasibility study, contact the GMV sales office. The minimum shaft width for lifts complying with EN 81.21 may vary slightly with respect to the standard one shown in the table. The car dimensions indicated in the table with the symbol (\*) comply with both EN 81.70 standard and law 13/89; those indicated with the symbol (\*\*) comply with law 13/89. For car sizes not shown in the table, contact the GMV sales office. Central openings doors available, contact the GMV sales office. **GLT Sigma** version available with adjacent entrances, contact the GMV sales office.

Concerning variations, finishes and payloads described in this brochure, GMV is able to supply **SYSTEMS WITH STANDARD DIMENSIONS** (see table above in relation to GLT Omega Extra Slim variant), but also, thanks to the continuous step designed frame and car, **"VARIABLE SIZE SYSTEMS"**, i.e. with car sizes that can vary with "10 mm" step. In addition to the categories indicated, GMV offers **"NON-STANDARD SYSTEMS"** for which it is required to contact the GMV sales office.

# GLT OMEGA EXTRA SLIM VERSION

> 2:1 traction lift with counterweight positioned next to the car guide and decentralised counterweight pulley placed on the same axis of symmetry as those of the car



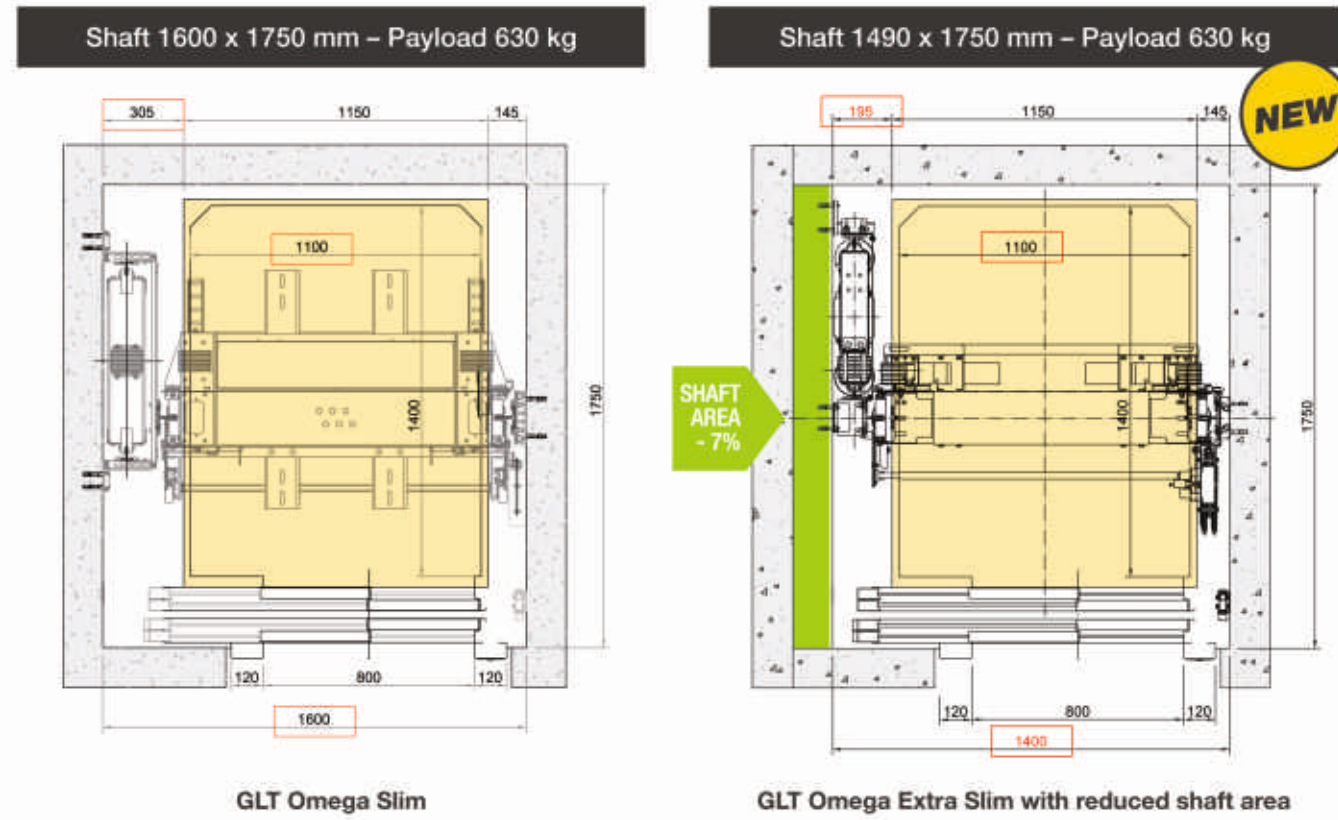
SPEED (m/s)	1	
NO. OF STOPS	2 ÷ 15	
CAR TRAVEL (m)	3 ÷ 45	
MIN. HEADROOM (mm)	Standard	3400
	Reduced	2500
MIN. PIT (mm)	Standard	1000
	Reduced	480

(\* Door clearance 2100 mm with frame overall dimensions 2325 mm on request.



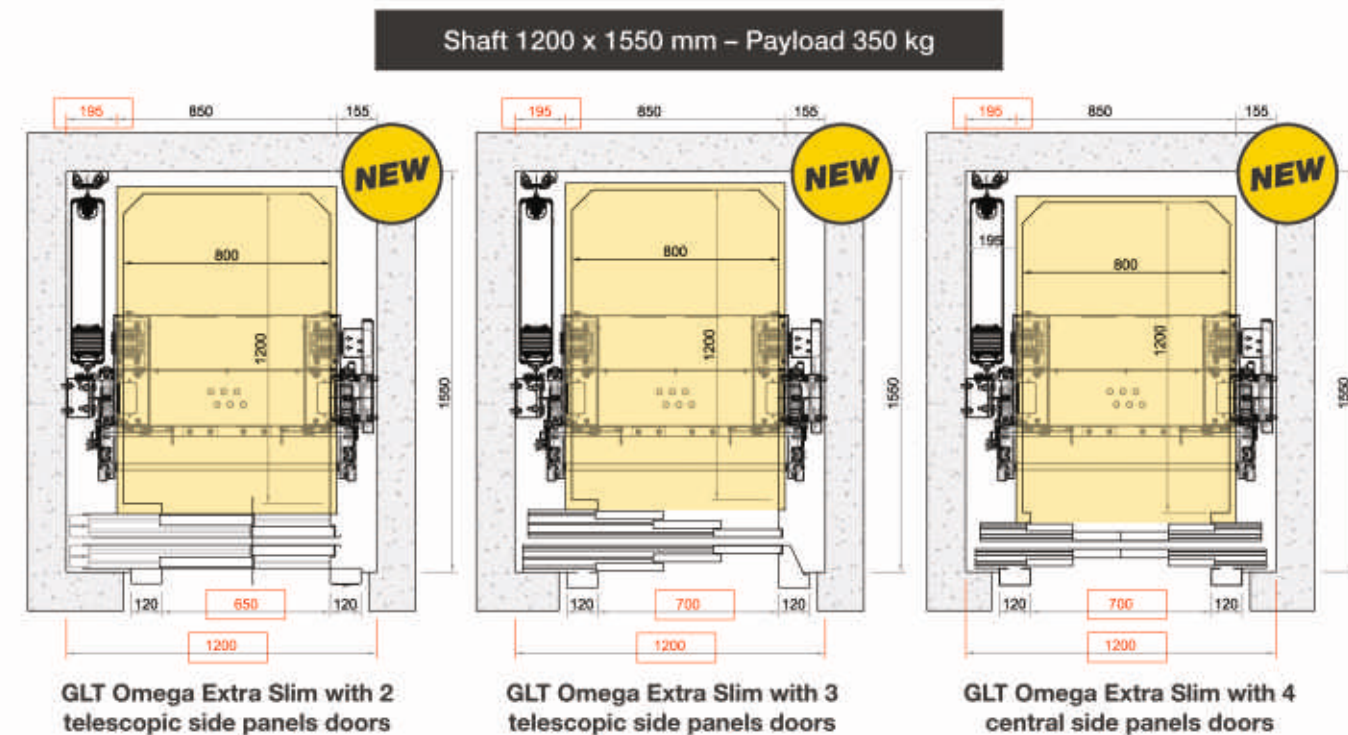
## EXAMPLE 2

With GLT Omega Extra Slim, reduced shaft area with the same car surface



## EXAMPLE 3

With GLT Omega Extra Slim, maximum use of the shaft with 3AT or 4AO doors (700 mm door clearance); ideal for renovations without masonry work



## TECHNICAL SPECIFICATIONS

<b>Drive</b>	Traction
<b>Machine</b>	Gearless
<b>Description</b>	<p>MRL lift with machine on top fixed to the guides in the following solutions:</p> <ul style="list-style-type: none"> <li>• <b>With ring-shaped frame with lower pulleys for single entrance and opposite double entrance (GLT Omega Extra Slim and GLT Omega Slim versions):</b>            Drive 2:1 with standard pit and/or headroom for 350 – 450 – 630 – 900 – 1000 kg payloads            Drive 2:1 with reduced pit and/or headroom for 350 – 450 – 630 – 900 – 1000 kg payloads            Drive pulleys with 120 mm diameter  <b>Use of drive ropes covered in polyurethane with a diameter of 6.5 mm</b>            With counterweight centred (GLT Omega Slim version) or counterweight alongside the car guide and counterweight pulley decentralised and placed on the same axis of symmetry as those of the car (GLT Omega Extra Slim version)</li> <li>• <b>With rucksack frame for adjacent entrances (GLT Sigma version):</b>            Drive 1:1 with standard pit and/or headroom for 350 – 450 – 630 kg payloads            Drive 2:1 with standard pit and/or headroom for 900 – 1000 kg payloads            Drive 2:1 with reduced pit and/or headroom for 350 – 450 – 630 – 900 – 1000 kg payloads</li> </ul>
<b>Machine room</b>	Unnecessary
<b>Intended use</b>	Residential, offices, hotels, hospitals, public and private buildings
<b>Conformity to Directives and Standards</b>	Lift Directive 2014/33/UE; Electromagnet Compatibility Directive 2014/30/UE. Harmonized Norm: EN 81-20 – EN 81-50 (Safety Rules for Elevators); EN 81.28 (Elevator Tele-alarm). On option: EN 81.70 (Architectural Barriers Removal); EN 81.58 (Fire Resistance Doors); EN 81.21 (Short-pit and/or short-headroom); EN 81.73 (Behavior of the lift in case of fire); EN 81.72 (fire-fighting lifts) with fire fighters maneuver.
<b>Safety components</b>	<ul style="list-style-type: none"> <li>• Bidirectional progressive grip safety gear</li> <li>• A3 certified brakes and to intervene in case of excessive ascent speed.</li> <li>• Over speed governor with car parking anti-drift on the floor</li> </ul>
<b>Electric Components</b>	<ul style="list-style-type: none"> <li>• Controller over the door of the upper floor</li> <li>• Closed loop 3VF drive</li> <li>• Maneuver: automatic PB, collective, simplex, duplex and triplex</li> <li>• Special maneuver: hospital, fireman, reserved</li> <li>• Pre-wired line, serial information to car</li> <li>• Encoder shaft information</li> <li>• Nearest and short floors</li> <li>• Up to 2/3 doors with alternate aperture, contemporary, selective</li> <li>• UPS automatic rescue device with doors re-opening</li> <li>• EN 81.28 dialer</li> <li>• Telemetry with GSM interface</li> </ul>
<b>Counterweight</b>	<ul style="list-style-type: none"> <li>• GLT Omega Extra Slim version: small counterweight fully iron fulfilled</li> <li>• GLT Omega Slim and GLT Sigma versions: counterweight iron/concrete fulfilled</li> </ul>
<b>Schaft type</b>	Concrete / Brick / Metal structure



## CAR WITH VARIABLE SIZE



- > **GMV traction lifts**, thanks to the continuous step designed frame and car, are equipped with an **innovative variable size car** that adapts with a "10 mm" step to all existing and new shafts, providing the widest range of finishes. It is a customisable, sturdy and light car, ideal for low energy consumption lifts. Assembly is simplified. The car covering panels, as well as the car button panels, can be customised as desired by the owners and can be easily replaced, thus enabling simple and quick restyling. **Open-view wall** cars are available.



## ACCESSORIES AND FINISHES

### CEILING PANELS

In stainless steel with LED lighting in CLASSIC, CIRCULAR and BLADE versions.



CLASSIC

CIRCULAR

BLADE

### CAR HANDRAIL AND ANGLE BARS

Handrail with black epoxy painted aluminium alloy connections. Stainless steel rod diam. 30 mm, compliant with EN 81.70. Car angle bars in scotch brite stainless steel (code 301).



### OPEN-VIEW WALLS

Open-view walls with handrail are available.



### BUTTONS

Polycarbonate button structure with embossed digits according to EN 81-70 and Braille. Blue crown lighting for car and floor buttons.



## FLOOR DOORS



Telescopic landing door 2AT / 2AO



Telescopic landing door 3AT



Telescopic landing door 4AO



Glass landing doors  
(2AT, 3AT, 2AO, 4AO)

> Landing doors and car doors are made of pre-painted sheet metal (polimod) or stainless steel or glass, with the colours and finishes shown on page 11. They are easy to assemble and adjust and are silent thanks to wheels on ball bearings and with galvanised guides to avoid any paint residues. Fire doors available, tested according to EN 81-58, class E 60 – E 120 – EI 30 – EI 60 – EI 90 – EI 120. Reduced sills available.

We can provide landing doors without frames to enable maximum freedom when creating building entrances. We must not forget that **the lift represents 50% of the value of a building's image** as those who enter a building spend on average 50% of the time required to reach their destination in a lift or in front of it.

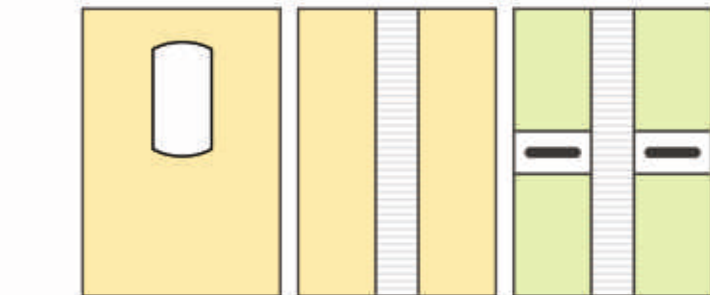
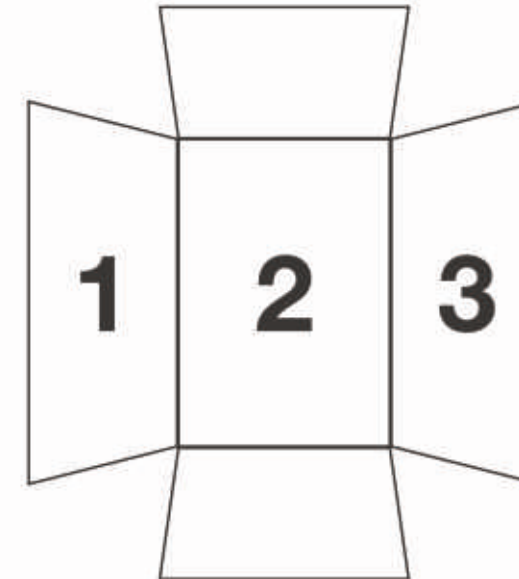
# FLOOR AND CAR BUTTON PANELS

> It is possible to choose between two different lines of floor and car button panels; flat design button panels and curved design button panels. Both lines have a scotch brite stainless steel finish and can be supplied with or without an LCD display.

## FLAT DESIGN BUTTON PANELS



## CURVED DESIGN BUTTON PANELS

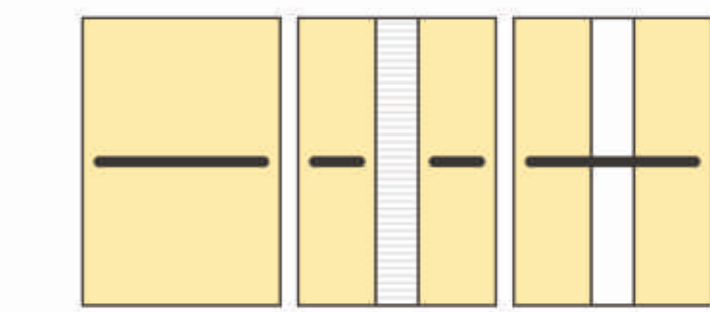


1	X	X	X
2	X		
3	X	X	X



1	X	X	X
2		X	X
3	X	X	X

- Walls in plastic laminate or stainless steel only
- Panel in plastic laminate or stainless steel or glass or mirror
- Car button panel module with curved design
- Column car button panel or scotch brite stainless steel column
- Scotch brite stainless steel column
- Handrail
- Handrail on scotch brite stainless steel plate



1	X	X	X
2			
3	X	X	X

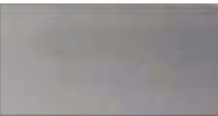



# COLOURS & MATERIALS

## CABIN WALLS

**PLASTIC LAMINATE** 


 <b>114 WHITE LIGHT BLUE</b> (Arpa 0010 R)	 <b>115 STONE GREY</b> (Arpa 0232 R)	 <b>117 LAVENDER</b> (Arpa 0607 R)	 <b>118 ACID GREEN</b> (Arpa 0660 LU)	 <b>120 ORANGE</b> (Arpa 0682 R)
 <b>134 IRON GREY</b> (Arpa 0623 R)	 <b>135 VALENCIA BLUE</b> (Arpa 0569 R)	 <b>136 RED DEVIL</b> (Arpa 0561 LU)	 <b>137 IVORY</b> (Arpa 0200 R)	 <b>138 COLORADO YELLOW</b> (Arpa 0523 R)
 <b>139 ALPINE BEECH</b> (Arpa 1286 R)	 <b>140 ANCIENT WALNUT</b> (Arpa 1890 R)	 <b>141 AOSTA CHERRY</b> (Arpa 1971 R)	 <b>142 WENDEL</b> (Arpa 4260 R)	 <b>143 NATURAL ZEBRANO</b> (Arpa 4390 R)
 <b>144 OAK BARRIQUE</b> (Arpa 4512 ALV)	 <b>145 AMERICAN ASH</b> (Arpa 4521 R)	 <b>146 MERCURY ELM</b> (Arpa 4539 ALV)	 <b>147 RUST</b> (ARPA 3294 LUN)	 <b>148 PORPHYRY GREY</b> (Arpa 3326 MK)
 <b>149 PORPHYRY BLACK</b> (Arpa 3329 MK)	 <b>150 CORTEN SAND</b> (Arpa 3330 LUN)	 <b>151 ALUMINUM</b> (Arpa 2000 SAT)	 <b>152 GOLDEN ALUMINUM</b> (Arpa 2003 SAT)	 <b>153 STEEL BLADE</b> (Arpa 2025 HWK)

**STAINLESS STEEL** **GLASS**

 <b>301 SCOTCH BRITE</b>	 <b>302 CHECKERS</b>	 <b>303 LINEN</b>	 <b>801 GLASS</b>
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## CABIN DOOR PANELS AND LANDING DOORS

**STAINLESS STEEL**

 <b>301 SCOTCH BRITE</b>	 <b>302 CHECKERS</b>	 <b>303 LINEN</b>	 <b>304 LEATHER</b>	 <b>305 SWL</b>
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**PRE-PAINTED METAL SHEET (POLYMOD)** **GLASS**

 <b>201 BEIGE</b>	 <b>204 LIGHT GREY</b>	 <b>205 DARK GREY</b>	 <b>801 GLASS</b>
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## FLOOR COATINGS

**AGGLOMERATE GRANITE**

 <b>601 WHITE</b>	 <b>602 LIGHT GREY</b>	 <b>603 BLACK</b>	 <b>604 DARK BLUE</b>	 <b>605 RED</b>
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**PVC** **GOMMA A BOLLI**

 <b>501 LIGHT GREY</b>	 <b>502 DARK GREY</b>	 <b>701 GREY</b>	 <b>702 BLACK</b>
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