

Elevating **you** to new heights.



Mission Statement.

Premier Platform Lifts Ltd., designs, develops and installs complete lifts and lift components according to CE95/16 regulations. With state of the art production facilities based from our manufacturers throughout Europe, we have been providing top class lifts to our customers to satisfy their needs.

Using the latest CNC laser cutting machines, we provide precise manufactured components. Our partners R&D department's engineers work round the clock to continuously improve our product, as well as keep up to the latest technologies being offered.

We understand challenges faced by our clients for latest technology requests, low failure rates, competitiveness and deadline adherence. We always do our utmost to support our clients to the best of our ability by:

- Sourcing the best components available on the market at the right prices
- Designing a product in the simplest form possible, being simple to install and easy to maintain.
- Implementing the latest technologies available on the market to date.
- Updating our products during a stipulated time frame to acknowledge latest technologies on the market
- Enforcing low failure rates through quality testing of each system and sourcing of quality components
- Provide up-to-date and informative documentation to reduce as much as possible after-sales requests and problems in installations



Manufacturers Exporting Countries.



Our policy is summarised in the six basic company's principals:

- Safety
- Design and Innovation
- Smooth and accurate operation
- Competitive prices
- High quality of products and components
- Solutions for all needs

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Valletta model.



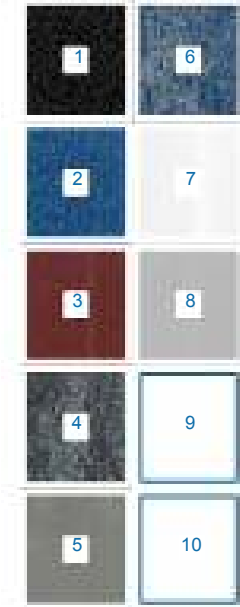
DESCRIPTION.

A base model that offers simplicity keeping high quality and combining an innovative design through a variety of colours.

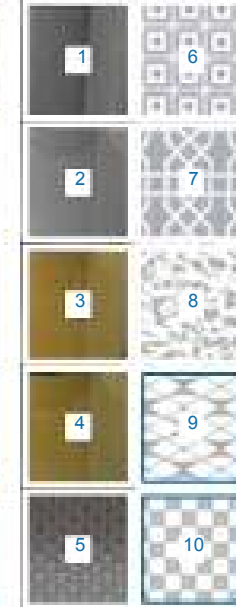
The side walls and rear corners are made of PVC laminated sheet steel while the front corners are made of brushed stainless steel. Ceiling consists a combination of colours and lighting through LED spots. Plastic rubber PVC floor and round stainless steel handrail are standard and flush mounted Car Operating Panel "COP", in brushed stainless steel with orange dot matrix indicator gives the best solution for residential buildings reducing the cost and providing an aesthetical solution.

MATERIALS.

Skinplate.



Stainless Steel.



* A mixture of both materials can be used on request for this particular model.

Comino model.



DESCRIPTION.

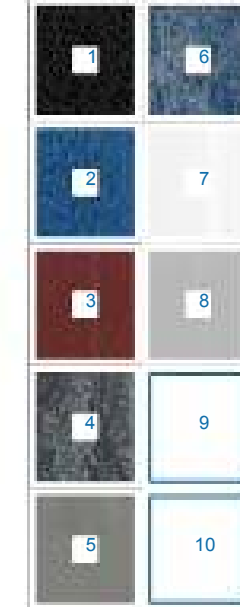
Common but not typical, the Comino model is the solution for the people who need a stainless steel cabin for their lift. Ideal for hospital, office, residential or any use you may require for your lift.

The side walls and corners are made of brushed stainless steel either on vertical or horizontal panels. Brushed stainless steel false ceiling with LED lighting gives an innovating solution for your lift.

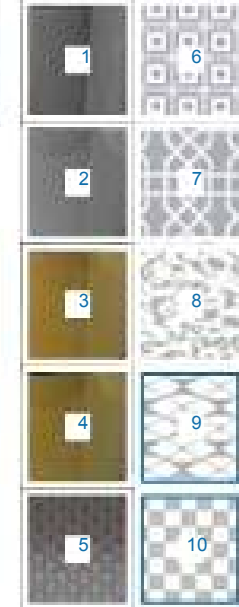
Wooden floor and round stainless steel handrail are standard with full length mirror. Full length column Car Operating Panel "COP" in brushed stainless steel with orange dot matrix indicator gives the best solution for residential buildings or office buildings offering design and quality for your building needs. Optionally; white LED dot matrix indicators can be used for that extra touch of class. The side walls can be combined with other type of stainless steel like mirror, gold, linen stainless and etched steel to give the aesthetical view you prefer.

MATERIALS.

Skinplate.



Stainless Steel.



Medina model.



DESCRIPTION.

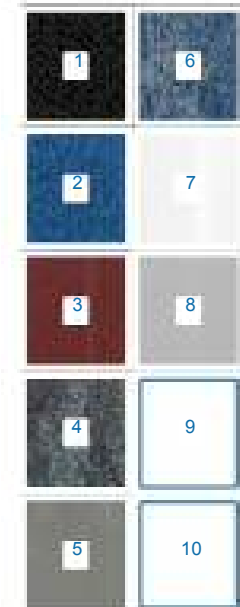
Moving a step forward, Medina model offers another solution for your cabin design keeping high quality standards and various finishes which match your needs.

Suggestions for a classic model, variety of colours or metal designs offer our clients the ideal opportunity to design their own individual cabin.

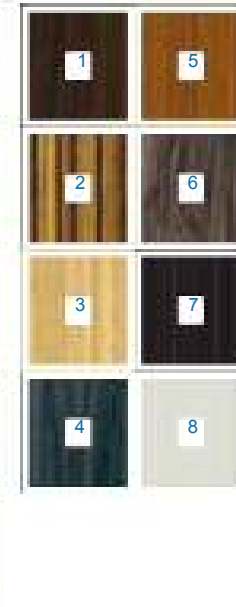
The side walls are made of high pressure laminate material with front and rear corners in brushed stainless steel. Brushed stainless steel false ceiling with LED or Neon lighting gives an innovating solution for your lift. Half length full width mirror at one side Plastic rubber PVC floor and round stainless steel handrail are standard and column Car Operating Panel "COP" in brushed stainless steel with orange dot matrix indicator gives the best solution for residential buildings or office buildings offering design and quality for your building needs.

MATERIALS.

Skinplate.



Wood Laminate.



Comino Deluxe model.



DESCRIPTION.

A delicate option for your elevator system. When the technical perfection meets a unique design. The side walls and corners are made of brushed stainless steel on horizontal panels. Wooden floor and round stainless steel handrail are standard with full length mirror.

Full length column Car Operating Panel - COP - in brushed stainless steel with white dot matrix indicator gives the best solution for residential or office buildings offering adding design and quality for your building needs.

The side walls can be combined with other type of stainless steel like mirror, gold, linen stainless and etched steel to give the aesthetical view you prefer.

MATERIALS.

Stainless Steel.

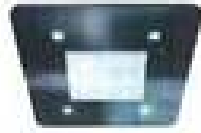


*Skinplate : 1. N3SM (textured black) 2. B5V (blue textured) 3. R9SME (red textured) 4. PPS27 (smooth) 5. F12PPS (smooth, stainless steel lookalike) 6. PPS31 (smooth) 7. A35SA (white smooth steel) 8. N55SA (light gray smooth steel) 9. A1V (textured white) 10. A4SA (light cream smooth steel)

*Stainless Steel : 1. Satin Stainless Steel 2. Mirror Stainless Steel 3. Brushed Gold 4. Gold Mirror 5. Linen Stainless Steel (antivandal) 6. Square Design Silver Stainless Steel 7. Islamic Design Gold 8. Leather Stainless Steel 9. Tulip Design Silver Stainless Steel 10. Kare Stainless Steel
*Wood Laminate : 1. Prestige Walnut 2. Zebrano 3. Natural cane 4. Vogue Wood 5. Vivid Cherry 6. Couture Wood 7. Graphite Rigato (textured) 8. Silver Rigato (textured)

Lighting style.

40% MORE EFFICIENT more than regular lighting



FC5

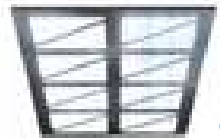
Optional fluorescent lighting also available in the following designs.



CW



CB



CM



CS



CW



FC5

Handrail style.



Standard

Round brushed or polished stainless steel handrail with inner stainless steel supports.



Optional

Round brushed stainless steel handrail with rounded angles.



Optional

Square Section brushed stainless steel handrail steel supports.

Flooring materials.

VINYL CARPET.

Resistance to solvents: Resistant to the majority of acids and diluted alkali.

Swells with aromatic solvents and chlorides. Resistance to mineral oils: good. Fire resistance: CE class Bfl-s1



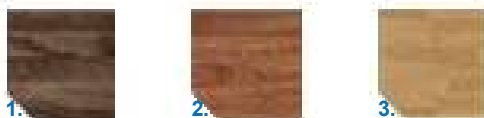
- 1. Coprisol C334
- 2. Hardflex C404
- 3. Hardflex 1119
- 4. Hardflex C1165
- 5. Coprisol C390

TILED FLOORS.



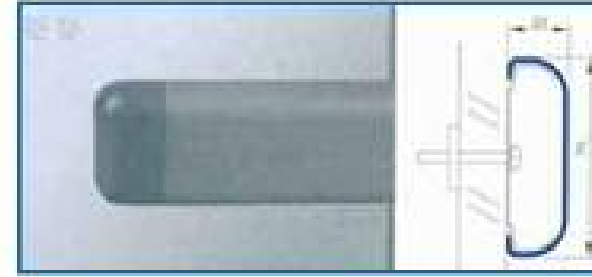
- 1. Black diamond
- 2. Palm beach
- 3. Autumn

WOOD PARQUET.



- 1. Old World Walnut
- 2. Indian Hickory
- 3. Brockel Oak

Cabin accessories.



PROTECTIVE BUMBERS



FLOOR RAILS



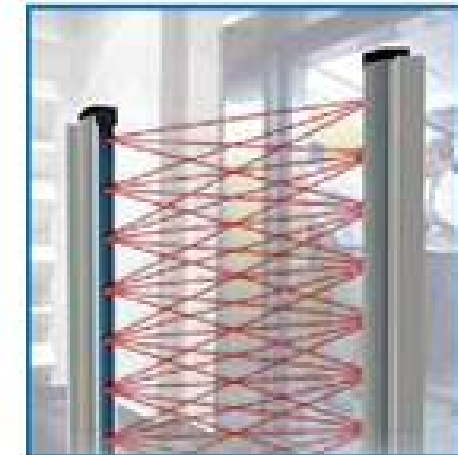
DROP DOWN SEAT



VENTILATION



EDGE PROTECTION



Panoramic Cabins.

Our Panoramic lifts add an elegant touch to the environment, when chosen to exist harmoniously with the architectural style of the building. Therefore the possibility of offering variations within our standard designs is always available. Our choice has to be based on performance, economy, safety, reliability, and elegance as most important determinants, while each function lays more weight on one or more of those aspects.

Option 1

Using the Comino model, we are able to produce the cabin with 1, 2 or 3 sides in glass. Side walls and corners are made of brushed stainless steel, or any other stainless steel of your choice. The roof is with Led energy saving lights.

1
side

2
sides

2
sides

3
sides



Bespoke Cabins.

Be it your hotel, villa, or luxury apartments project, we are able to create a personalised cabin to your complete specification. Having our own hand-crafting professionals, we can work hand in hand with your architects or designers to implement your design into our elevators too. A large variety of traditional and non-traditional materials can be used to finalise the product.

Our crafting department can manufacture cabin styles to your designs, for all building types. Using woods, leathers, and various stainless steel finishes and light designs.

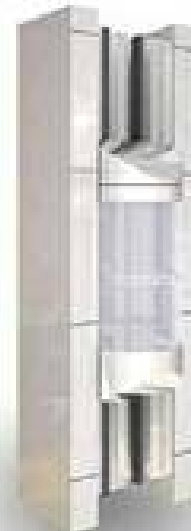
WE ARE ABLE TO MAKE YOUR WISH COME TRUE !



Option 2

When the situation requires it we can provide alternate panoramic designs with:

- Round glass
- Curved glass and any type of stainless steel sides



A HUGE VARIETY OF MATERIALS AT YOUR DISPOSAL.

Helping you create that look you're after. Whether its minimal, classic or anything in between.



Hydraulic Elevators.

Offering solutions for all kind of hydraulic systems - passenger, goods, hospital, car and home lifts. Focusing on the policy of energy efficiency Premier Lifts hydraulic systems using the latest technology and top quality components provides low-maintenance and economic operation systems.

All the hydraulic systems use as standard electronic valve blocks offering at least 30% energy efficiency. Car frames are designed such way to offer easy installation and flexibility while all the components used are selected to provide smooth operation, safety reducing noise and vibrations during the operation of the lift.



(indirect acting configuration)

RANGE OF HYDRAULIC LIFTS		
Rated load	180Kgs - 10000Kgs	
Maximum no. of Stops	8	
Type	Machine Room (MR) & Machine Room Less (MRL)*	
Speed range	0.15m/s up to 0.80m/s**	
Acting	1:1	1:2

Full compliance to EN81 regulations and lifts directive 95/16/EC

*MRL solutions for high rated load will be provided after a study of lift specifications
**Our lifts can be provided with electronic valve blocks or inverter systems

The Car Frames.

Our hydraulic car frames, are manufactured with modern high precision machinery. All components are collected, assembled and delivered only after careful packaging.

The entire process is monitored through a strict quality control. We place special care in following the development of the main technical standards in order to ensure the right response to customers' demands.

All products are accompanied by specific technical documents highlighting an accurate design of the structures.

Hydraulic car frames, both indirect and direct acting, comply with EN 81-2 standards; moreover they have a chair structure suitable for a car with 1, 2 or 3 admissions; they can be constructed in two versions: 'single car frame' or 'complete plant'. In this case, the accessories which complete the units are selected from the best brands of the new generation in order to guarantee to our customers quality, the optimum operation of the plant in all conditions, low power consumption and respect for the environment.

1. INDIRECT ACTING

This configuration, the same cylinder/piston, permits to double travels and speed in comparison with those of the piston, but it cannot carry a heavier cargo on the piston itself. The hydraulic car frames are generally used in private or public buildings such as shopping centres, schools, hospitals, hotels and residential buildings. The car frame may be also equipped with a progressive safety gear, with a speed which can reach 1 m/s, generally up to 7/8 stops.

2. SIDE DIRECT ACTING

The piston is set in the housing, next to the car, and works on the upper cross beam. Its utilization is limited to 2/3 stops.

3. CENTRAL DIRECT ACTING

the piston is generally set at the centre of the pit and works on the lower cross beam, which is ring-type. It has a limited use; its utilization is linked to particular design requirements.



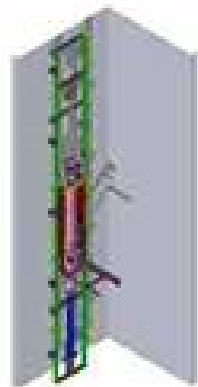
Low Pit & Low Headroom Solutions.

- LOW HEADROOM - 2600mm
- LOW PIT - 150mm

This car frame is designed to meet vertical mobility needs both in public buildings and in private households. It is an ideal solution for retrofitting into existing buildings, or buildings that cannot be amended to accommodate a lift shaft.

Thanks to its refined finishes, as well as the possibility of customization, this lift can be perfectly adapted to the style of the building in which it is installed.

It can be mounted both in walled shafts and in metal frameworks.



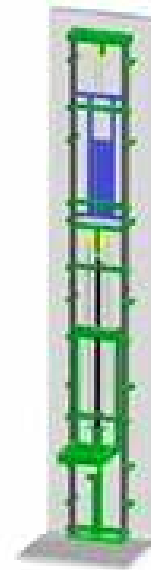
Counterweighted Configuration.

Counterweighted lift is equipped with a balancing weight and a new, energy-efficient power unit that significantly reduces energy consumption and improves operating comfort.

The counterweighted works with a 43% less powerful motor than a traditional hydraulic lift. The shaft dimensions are the same as the standard ones.

Below are shown some example of counterweighted installation, according to the capacity and speed.

- 480 kg - upstroke 0,48 m/s, downstroke 0,63 m/s motor 4 kw, contract demand 6 kw
- 630 kg - upstroke 0,36 m/s, downstroke 0,55 m/s motor 4 kw, contract demand 6 kw
- 480-600 kg - upstroke 0,63 m/s, downstroke 0,63 m/s motor 7.5 kw, contract demand 10 kw
- 900 kg - upstroke 0.37 m/s, downstroke 0,56 m/s motor 7.5 kw, contract demand 10 kw



Our Technology.



ROLLERS OUT OF ACLATHAN 2800

- extremely wear and tear resistant
- no chalking
- high tear propagation resistance
- low compression set
- good resistance against mineral oils, grease, petrol and ozone



GUIDE SHOES

- excellent noise- and vibration damping properties
- excellent stability and durability
- low friction noise



OILERS

- constant feed of lubricant by capillary action of selected felt and wick quality
- low oil consumption
- can be filled from both sides/ from the top • friendly to the environment since dripping oil in the shaft base is avoided





As an independent and internationally leading manufacturer in the mobile and industrial hydraulics field, Bucher Hydraulics designs and produces hydraulic drive and control equipment for specific customers and particular applications.

In airports, train stations, shopping centres, and residential and commercial buildings, ultra-reliable hydraulic elevator components from Bucher Hydraulics are used in passenger and goods elevators with travel heights up to 25 metres and payloads from 320 kg to more than 40000 kg.

Architects need a good deal of creative scope when fashioning their designs, and they must be able to rely on practical elevator modules that function faultlessly. With the advantage of such modules, they can then implement their ideas without any constraints. Elevator installations powered by hydraulics offer such benefits and also guaranteed low-maintenance and economic operation.

State of the Art Elevator Installations With the most up to date hydraulic systems.

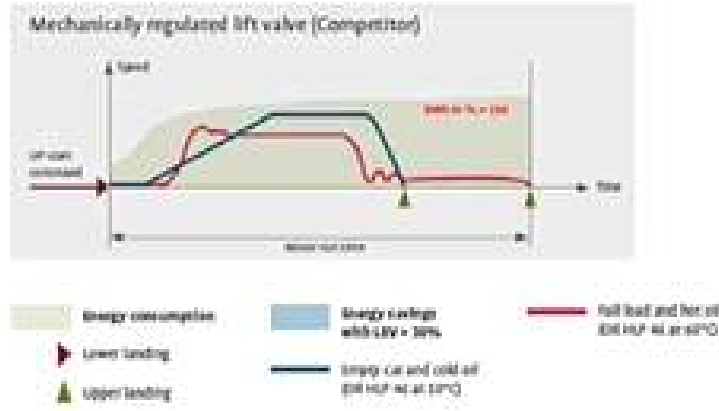
The latest generation of hydraulic systems, standard 30% more efficient.

You will seldom see or even be aware of Bucher Hydraulics products, because they fit into most architectural concepts without difficulty, operating quietly and reliably while also conserving energy.

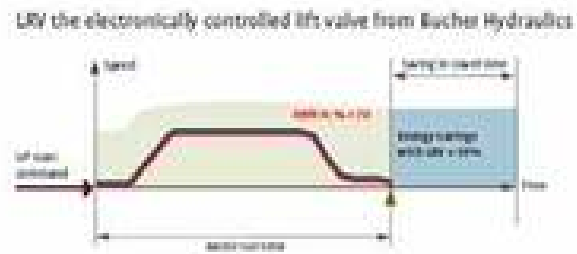
HYDRAULIC VS TRACTION

	Hydraulic	Traction
SAFETY	<ul style="list-style-type: none"> •Emergency evacuation procedures are very simple and completely safe •Much safer when used in earthquake zones •Safety during service and repair work, since there is no moving counterweight 	<ul style="list-style-type: none"> •Complicated, and in some respects hazardous, emergency evacuation procedures •In an earthquake, the danger from drive components or the counterweight falling on the car
PERFORMANCE	<ul style="list-style-type: none"> •Particularly high load ratings •All vertical loads act in the shaft pit only •Modern technology and weight-optimisation ensure an extremely attractive price /performance ratio 	<ul style="list-style-type: none"> •Poor load ratings
MAINTENANCE & SERVICE	<ul style="list-style-type: none"> •Technically straightforward and familiar principal reduces the amount of installation work in shaft •Low maintenance drive technology •No wear on pulleys and ropes •Replacement parts are less expensive, not tied to a particular manufacturer, and available on the open market •Technicians can work on the drive from outside the shaft. They are consequently not exposed to any hazard and thus save time 	<ul style="list-style-type: none"> •Heavy wear on traction sheave and ropes •Complicated work procedures, and hazardous working situations •Long repair and maintenance times •With manufacturer-dependent systems, the operator is "locked in" for maintenance and repairs; Independent service providers are shut out
INSTALLATION	<ul style="list-style-type: none"> •Simple and economical assembly •Hydraulic elevators are particularly suitable for projects where retrofitting is involved 	<ul style="list-style-type: none"> •The drive system in the shaft head is difficult to access and assembly work is hazardous
COSTS	<ul style="list-style-type: none"> •For buildings with up to five floors, the cost effectiveness of hydraulic elevators is virtually unbeatable 	<ul style="list-style-type: none"> •Very high costs for service and replacements

- Up to 30% energy saving compared to mechanical pump units
- High traffic allowed
- Speed up to 1m/sec.
- Precise floor approach
- Up to 30% oil heating reduction compared to mechanical pump units



The graph below illustrates impressively the stability of the travel curve of the electronic lift valve, irrespective of the operating condition.



Representation of the iValve



Technical data:

Dimensions: 123 x 113 x 50 mm
 Voltage range: 24V ±10% DC
 Input power in operation: max. 50 W
 Input power in stand: max. 3 W
 Command input: potential free contacts or 0 resp. 24 VDC
 EMV Standard: EN 12015, EN 12016
 Temperature: 0 °C - 70 °C
 Max. relative air humidity: 90%
 Protection class: IP 00
 Relay contacts: Current: mind. 10 mA / max 3 A
 Voltage: max. 250 VAC / 30 VDC
 Viscosity: 20 cSt - 500 cSt •
 Pressure medium: acc. oil recommendation list

iValve

Type : i250
 Max. Flow l/min : 250
 Stat. Oil pressure Max : Bar 60
 Connection (P, T) pump / tank : G1
 Connection (Z) cylinder : 28L

Why is it THE BEST in it's field ?

iTeach: valve adjusts itself
The iValve adjusts its parameters itself during the first rides.

- No need for interminable setting of complex parameters anymore!
- Your staff do not have to be hydraulic professionals for a fast, advantageous and save installation
- Anybody can set the iValve - no hydraulic experience is required!

iAccess und iMonitoring: Remote Management and Condition Monitoring (optional)
The iValve monitors itself, delivers prognosis and it can do all that online.

- You know what has to be done at what point of time (e.g. time left until cleaning an oil filter)
- You save redundant service visits and followup services!
- You only do what is needed and satisfy the end customer!

Maximum ride comfort
 Smooth, quiet, efficient and reliable ride; no start lag

Minimal installation effort
 Initial operation as quick as a flash without know-how

Self-teaching
 iTeach makes any parameter adjusting redundant

Fulfilling the standard A
 additional, self-monitoring A3 - valve is integrated (type-examined by TÜV SÜD)

Ready for the future
 Remote access (iAccess) and intelligent condition monitoring (iMonitoring)

The A3 Requirements.



The requirements of the new standard:
 The new european standard DIN EN81-2:2010 includes all previous editions and is compulsory for all hydraulic lifts. Some specific changes of the standard are generally known as "A3". Here are the two most important ones:

9.13 Protection against unintended car movement
 "Hydraulic lifts shall be provided with a means to stop unintended car movement away from the landing with the landing door not in the locked position and the car door not in the closed position [...]."

12.15 Normal stopping of the car at landings and levelling accuracy
 "The stopping accuracy of the car shall be ± 10 mm"

These requirements have to be fulfilled for every lift commissioned starting from end of 2011.

- Solutions fulfil the standard's requirements
 To fulfil these demands with a hydraulic lift, you have two options:
- Use a lift control valve that is officially corresponding to the new standard (e.g. iValve)
 - Put an additional safety valve between the cylinder and a lift control valve that offers a sufficient stopping accuracy (e.g. DSV-A3 combined with LRV-1)

- Benefits for your customers**
 The standard provides important benefits for your customers and the lift user:
- The danger of stumbling is reduced (the most common cause of accidents!)
 - Unsafe operation conditions are prevented
 - The safety of the lift user is enhanced

The iValve meets these requirements and are certified by TÜV SÜD. The means consists of three parts:
 A) sensor unit that detects unintended movement of the car
 B) controller that processes the signal and interrupts the power supply to the stopping element.
 C) stopping element that stops the movement of the car

Up direction: As to date contactors fulfil this function.
 Down direction: The car is stopped by the integrated A3-Function of the new, intelligent lift control valve "iValve"

The Cylinder.



Cylinders for indirect 2:1 or 4:1 lift applications, which offer the maximum flexibility in the field of hydraulic driven lifts. A very simple structure accounts for a very high operational reliability. Produced exclusively using non-welded rod tube

- Also available in a version with double protection layer
- Tested for use with environment-friendly biodegradable oils
- Available in "slim" version using a reduced quantity of oil
- Execution with 1 or 2 seams
- Rod protection for travels longer than 8 m in seamless execution
- Overspeed safety valve certified by TUV according to EN81.2 standards



The Pump.



In more than thirty years of activity, SETTIMA has brought the care of the mechanical Italian tradition within industrial products competitively priced. Our screw pumps are the result of an ongoing commitment to research and development, which enables us to offer our customers products with excellent performances and low noise.

We constantly invest in highly flexible production lines, high precision machining equipments and technical and professional development of our employees.

This allowed us to bring to unequalled levels the quality of the screws, which form the heart of our pumps, reduce production costs even for small series, react quickly to customer requests.

1,000,000 of installations worldwide testify that those who need to rely on quality products, customized to their needs and quickly delivered choose SETTIMA, because SETTIMA is able to combine research and innovation with the power of tradition.



Standard iValve Power Unit.

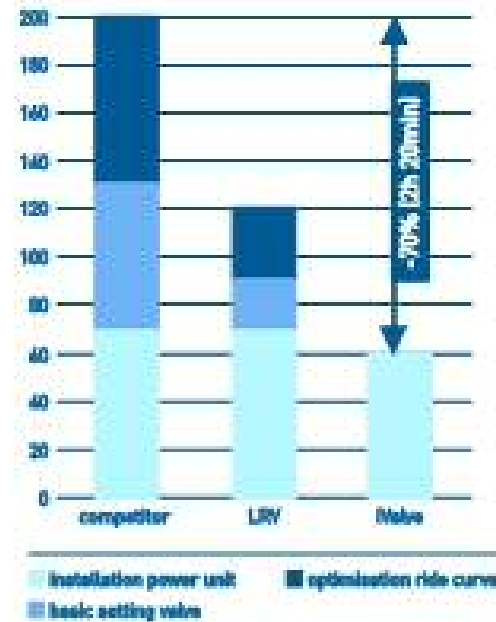
Power units for passenger lifts using electronic valves, featuring a very low noise and a very high level of comfort during operation.

They offer a higher efficiency and an energy saving of up to 30% when compared to traditional pump units installed on short travel systems.

- Compact structure
- Pump placement designed to optimise quantity of oil used
- Pump mounted on dampers
- The electronic valve, by modulating flows and timings, transfers less heat to oil during operation: significant energy saving
- The electronic valve compensates oil viscosity variations due to changes in temperature: smooth and constant performance is guaranteed
- Easy maintenance of the valve section; the valve is ideal for high traffic installations
- Very accurate control of levelling to floor
- External interception valve with integrated filter can be moved to ease connection from each side: layout design becomes very simple
- Hand pump for emergency upwards travel is integrated in the valve group, in an easily accessible position. A remotely controlled version is also available
- Can be placed in a cabinet, with connection on the left or on the right, both in the front side or in the back side
- Wide range of models which covers any application (from 55 to 600 l/min., from 4.8 to 58.8 kW)
- Available in an optional version using a heat resistant drive
- Extended range of models can be supplied upon specific request
- This allowed us to bring to unequalled levels the quality of the screws, which form the heart of our pumps, reduce production costs even for small series, react quickly to customer requests.

Safety valves against unintended car movement (EN81-2:2010)

The iValve combines simplicity, safety and intelligence. It is certified to correspond to DIN EN81-2:2010 and does not need any additional safety valve - the landing accuracy of $\pm 3\text{mm}$ exceeds the required precision by far.



Hydraulic MRL system.

The Compact hydraulic system in cabinet MRL for machine roomless lift installations combines mechanical pump unit and hydraulic cylinder in a compact package, easy and quick to install.

The compact structure of MRL enables installation in a standard cabinet: no dedicated machine room is required for the lift.

- Compact structure
- Placed in a cabinet, with connection on the left or on the right, both in the front side or in the back side
- Cabinet according to CE Standards
- Pump placement designed to optimize quantity of oil used
- Pump mounted on dampers
- Easy maintenance of the valve section: modular valve body placed in an easily accessible position
- Hand pump for emergency upwards travel is integrated in the valve group, in an easily accessible position
- Wide range of models: from 55 to 150 l/min., from 3,3 kW to 14,7 kW



Power unit with inverter (VVVF).

The solution for high-use, high load applications:
More rides for less energy with frequency control

Ideal for new installations and modernizations, secures a reduction of electricity consumption up to 60% compared to traditional pump units.

Thanks to highly innovative content, the pump unit is the best in class for comfort and energy save. Designed, tested and guaranteed, pump unit is easy to be installed; thanks to integrated hand terminal the setting of parameters is fast and simple.

- Up travel managed by inverter
- Down travel managed by the valve block
- Open loop system without encoder
- Up to 1 m/s speed
- Floor approach is precise not depending on the load
- Exclusive software
- Inspection and re-levelling speed are adjustable
- Intermediate floors with specific speed
- Available with pumps from 55 to 380 l/min and motors from 3.3 to 36.8 kW

Save energy

Energy savings of up to 60% can be achieved.

High travel performance

Up to 200 rides per hour are possible without oil cooler and costly machine-room ventilation.

Low-noise technology

As much as 10 dBA quieter in the machine room.

Short and consistent travel times, irrespective of load and temperature

Irrespective of load and temperature, this hydraulic drive ensures a high degree of stopping accuracy, short and consistent slow-speed travels, and delay-free starts - with unvarying, unsurpassed ride comfort.

Flexible

Existing installations with overheating issues can be upgraded easily.

Inexpensive installation, operation and maintenance

The effort and costs of installing oil cooling are eliminated. Hydraulic components suffer less wear thanks to the lower oil temperatures.



Power Unit Options.

High Efficiency IE2 Induction Motors

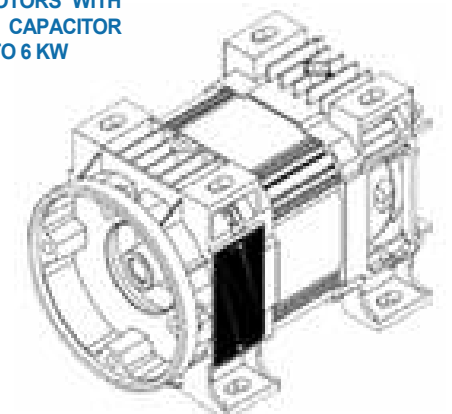
HIGH EFFICIENCY MOTORS RUNNING IN AIR IE2 FROM 3 TO 11 KW

20% reduction in energy consumption and heating of the pump unit with the possibility of reducing the installed power.



Single Phase Motors

SINGLE-PHASE INDUCTION MOTORS WITH PERMANENT CAPACITOR FROM 1.2 KW TO 6 KW



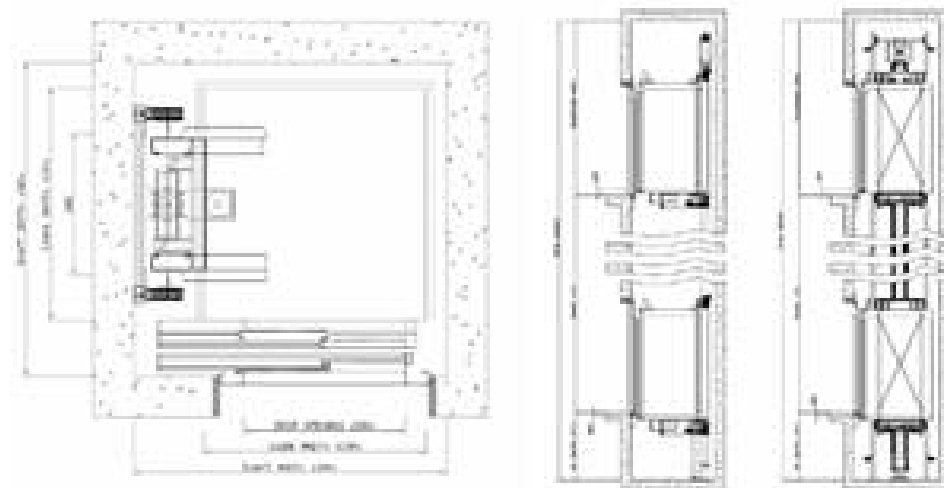
Technical Configuration Data.

SINGLE ENTRANCE - GUIDE RAILS AT SIDE

Rated Load	Q	Kg	300	375	450	630	750	900	1000
Number of persons	NO		4	5	6	8	10	12	13
Car frame Type			HI-CL 450	HI-CL 450	HI-CL 450	HI-CL 750	HI-CL 750	HI-CL 1000	HI-CL 1000
Total weight of car	G	Kg	550	580	600	680	830	880	920
Load on the piston (max)	L	Kg	1800	2010	2200	2750	3320	3720	4000
Car Width	CW	mm	900	1000	1100	1100	1200	1250	1300
Car Depth	CD	mm	1000	1100	1150	1400	1500	1700	1800
Shaft Width	SW	mm	1350	1450	1550	1550	1700	1750	1800
Shaft Depth	SD	mm	1400	1500	1500	1800	1900	2100	2200
Door Type			700 2TP	800 2TP	800 2TP	800 2TP	900 2TP	900 2TP	1000 2TP
Guide Rails		mm	70x65x9	82x68x9	82x68x9	80x80x9	90x75x16	125x82x16	125x82x16
Guide Rails Distance	DBG		700	700	700	900	1000	1000	1100
Pulley			Ø 320	Ø 320	Ø 320	Ø 400	Ø 400	Ø 400	Ø 400
Ropes			4xØ8	4xØ8	4xØ8	4xØ10	6xØ10	6xØ10	6xØ10
Buffer Type			ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 165x80	ACLA 165x80

SPECIFICATIONS FOR A TYPICAL 4 STOP LIFT

Rated load	Q	Kg	300	375	450	630	750	900	1000
Speed (max)	U	m/sec	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Max. Travel	T	m	24	24	24	24	24	24	24
Piston			Ø80x5	Ø80x5	Ø90x5	Ø100x5	Ø110x5	Ø110x5	Ø120x5
Nom. Pump Capacity		l/min	100	100	125	150	180	180	210
Nom. Motor Power		Kw	7.7	9.6	9.6	11	12.5	14.7	18.4

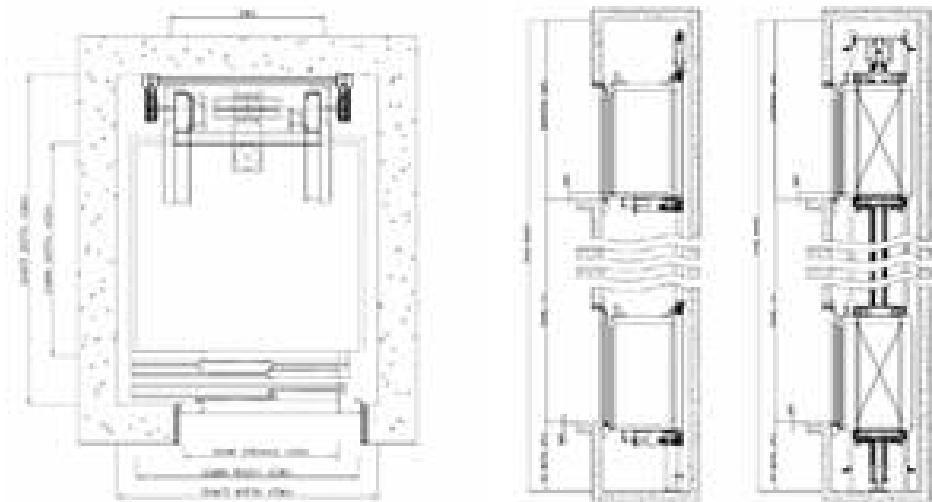


SINGLE ENTRANCE - GUIDE RAILS AT REAR

Rated Load	Q	Kg	300	375	450	630	750	900	1000
Number of persons	NO		4	5	6	8	10	12	13
Car frame Type			HI-CL 450	HI-CL 450	HI-CL 450	HI-CL 750	HI-CL 750	HI-CL 1000	HI-CL 1000
Total weight of car	G	Kg	550	580	600	680	830	880	920
Load on the piston (max)	L	Kg	1800	2010	2200	2750	3320	3720	4000
Car Width	CW	mm	1050	1100	1150	1400	1550	1700	1800
Car Depth	CD	mm	850	1000	1100	1100	1200	1250	1300
Shaft Width	SW	mm	1300	1350	1350	1600	1750	1900	2000
Shaft Depth	SD	mm	1450	1600	1700	1700	1800	1850	1900
Door Type			700 2TP	700 2TP	700 2TP	900 2TP	900 2TP	900 2TP	1000 2TP
Guide Rails		mm	70x65x9	82x68x9	82x68x9	80x80x9	90x75x16	125x82x16	125x82x16
Guide Rails Distance	DBG		700	800	800	900	1000	1000	1100
Pulley			Ø 320	Ø 320	Ø 320	Ø 400	Ø 400	Ø 400	Ø 400
Ropes			4xØ8	4xØ8	4xØ8	4xØ10	6xØ10	6xØ10	6xØ10
Buffer Type			ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 165x80	ACLA 165x80

SPECIFICATIONS FOR A TYPICAL 4 STOP LIFT

Rated load	Q	Kg	300	375	450	630	750	900	1000
Speed (max)	U	m/sec	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Max. Travel	T	m	24	24	24	24	24	24	24
Piston			Ø80x5	Ø80x5	Ø90x5	Ø100x5	Ø110x5	Ø110x5	Ø120x5
Nom. Pump Capacity		l/min	100	100	125	150	180	180	210
Nom. Motor Power		Kw	7.7	9.6	9.6	11	12.5	14.7	18.4



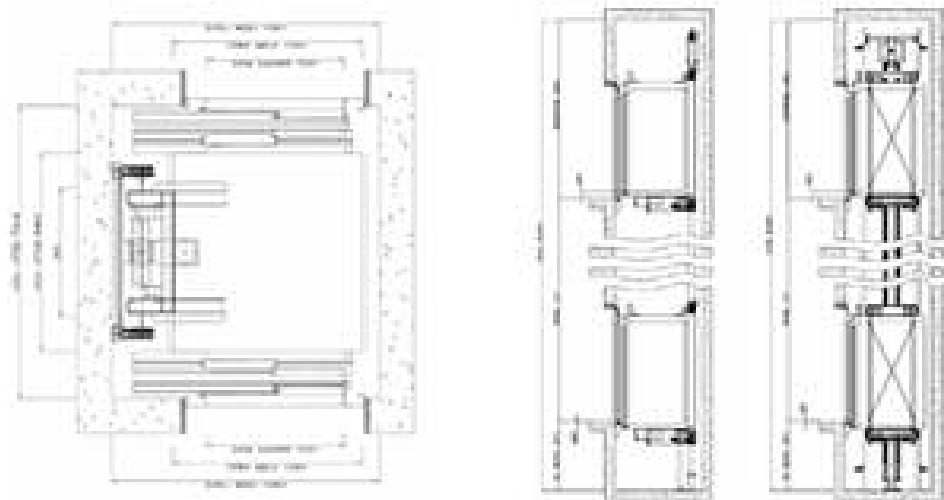
Technical Configuration Data.

TWO ENTRANCES AT 180° - GUIDE RAILS AT

Rated Load	Q	Kg	300	375	450	630	750	900	1000
Number of persons	NO		4	5	6	8	10	12	13
Car frame Type			HI-CL 450	HI-CL 450	HI-CL 450	HI-CL 750	HI-CL 750	HI-CL 1000	HI-CL 1000
Total weight of car	G	Kg	650	690	710	790	950	1000	1040
Load on the piston (max)	L	Kg	2000	2230	2420	2970	3560	3960	4240
Car Width	CW	mm	800	1000	1100	1100	1200	1250	1300
Car Depth	CD	mm	1100	1100	1150	1400	1500	1700	1800
Shaft Width	SW	mm	1300	1450	1550	1550	1700	1750	1800
Shaft Depth	SD	mm	1650	1650	1700	1950	2050	2250	2350
Door Type			700 2TP	800 2TP	800 2TP	800 2TP	900 2TP	900 2TP	1000 2TP
Guide Rails		mm	70x65x9	82x68x9	80x80x9	80x80x9	90x75x16	125x82x16	125x82x16
Guide Rails Distance	DBG		700	700	750	900	1000	1000	1100
Pulley			Ø 320	Ø 320	Ø 360	Ø 400	Ø 400	Ø 400	Ø 400
Ropes			4xØ 8	4xØ 8	4xØ 9	4xØ 10	6xØ 10	6xØ 10	6xØ 10
Buffer Type			ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 165x80	ACLA 165x80

SPECIFICATIONS FOR A TYPICAL 4 STOP LIFT

Rated load	Q	Kg	300	375	450	630	750	900	1000
Speed (max)	U	m/sec	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Max. Travel	T	m	24	24	24	24	24	24	24
Piston			Ø 80 x 5	Ø 90 x 5	Ø 90 x 5	Ø 100 x 5	Ø 110 x 5	Ø 110 x 5	Ø 120 x 5
Nom. Pump Capacity		l/min	100	125	125	150	180	180	210
Nom. Motor Power		Kw	7.7	9.6	9.6	11	12.5	14.7	18.4

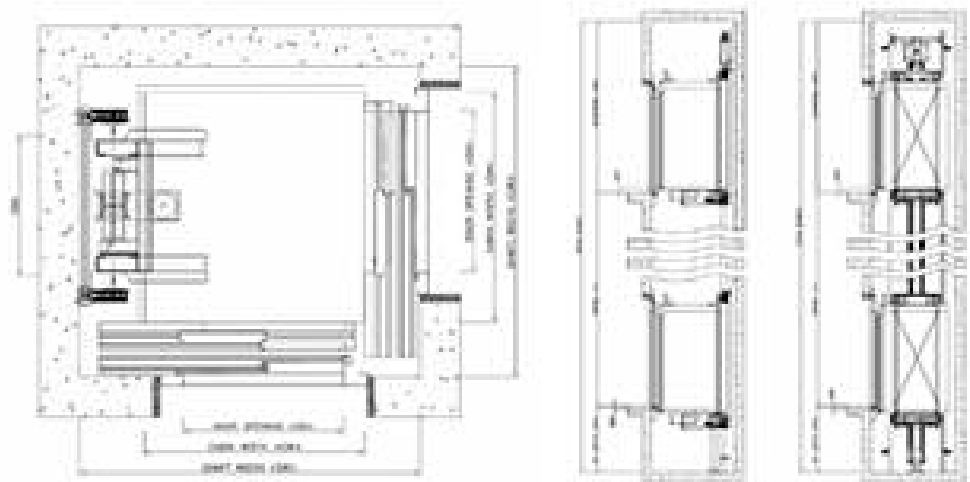


TWO ENTRANCES AT 90° - GUIDE RAILS AT

Rated Load	Q	Kg	300	375	450	630	750	900	1000
Number of persons	NO		4	5	6	8	10	12	13
Car frame Type			HI-CL 450	HI-CL 450	HI-CL 450	HI-CL 750	HI-CL 750	HI-CL 1000	HI-CL 1000
Total weight of car	G	Kg	650	690	710	790	950	1000	1040
Load on the piston (max)	L	Kg	2000	2230	2420	2970	3560	3960	4240
Car Width	CW	mm	900	1000	1100	1100	1200	1300	1300
Car Depth	CD	mm	1000	1100	1150	1400	1500	1650	1800
Shaft Width	SW	mm	1500	1600	1700	1700	1850	1950	1950
Shaft Depth	SD	mm	1400	1500	1550	1800	1900	2050	2200
Door Type			700 2TP	700 2TP	800 2TP	800 2TP	900 2TP	900 2TP	1000 2TP
Guide Rails		mm	70x65x9	82x68x9	80x80x9	89x62x16	90x75x16	125x82x16	125x82x16
Guide Rails Distance	DBG		700	700	700	900	1000	1100	1200
Pulley			Ø 320	Ø 320	Ø 360	Ø 400	Ø 400	Ø 400	Ø 400
Ropes			4xØ 8	4xØ 8	4xØ 9	4xØ 10	6xØ 10	6xØ 10	6xØ 10
Buffer Type			ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 125x80	ACLA 165x80	ACLA 165x80

SPECIFICATIONS FOR A TYPICAL 4 STOP LIFT

Rated load	Q	Kg	300	375	450	630	750	900	1000
Speed (max)	U	m/sec	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Max. Travel	T	m	24	24	24	24	24	24	24
Piston			Ø 80 x 5	Ø 90 x 5	Ø 90 x 5	Ø 100 x 5	Ø 110 x 5	Ø 110 x 5	Ø 120 x 5
Nom. Pump Capacity		l/min	100	125	125	150	180	180	210
Nom. Motor Power		Kw	7.7	9.6	9.6	11	12.5	14.7	18.4

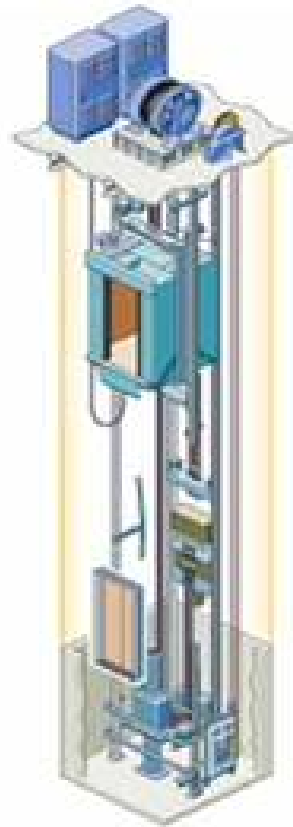


Traction With Machine Room.

Traction elevators utilizing traditional full-size traction hoist machines are used in high-use buildings and generally operate at speeds of 1m/s to 4m/s. Significantly faster speeds are possible with traditional elevator machines because of their optimum physical size and they provide the optimum in performance and ride quality..

ADVANTAGES.

- Moderate cost
- Perfect solution for heavy load use.
- Easy to use and maintain.
- Longer life cycle.
- Higher operating speeds.



VVVF Geared Motors.



**FAST FLEXIBLE
STRONG
DYNAMIC**

TECHNICAL CHARACTERISTICS.

- Optimised for simple installation in the machine room
- Great elevator travelling comfort through quiet and low vibration run
- Travelling speeds of 0.5m/s to 4m/s
- Full range of engines available in ACVVVF with predisposition to control the inverter
- Average weight (depending for the configuration) reduced down to 180 kg;
- Forced ventilation of the motors (supplied as standard) allows 240 starts/hour on motors predisposed for inverter (ACVVVF)
- mechanical and electric test on 100+ of the production
- Noise level is under 50 db. and vibration value is 0.7 mm/sec. These levels are much lower than the standards.
- Economizes the energy, using the motor with lower power owing to the high productivity.
- It does not need maintenance owing to the special synthetic lubricant which increases productivity and working life of the worm and gear group.

Our motors are studied for elevators from 4 to 35 people and versatile range of application included between 320 and 2500 Kg.

The innovative design brings three different positions for the bedplate fixing at 0°, 90° and 180°. This layout allows you to use the same drive in vertical, horizontal, left or right position.

2 Speed Geared Motors.

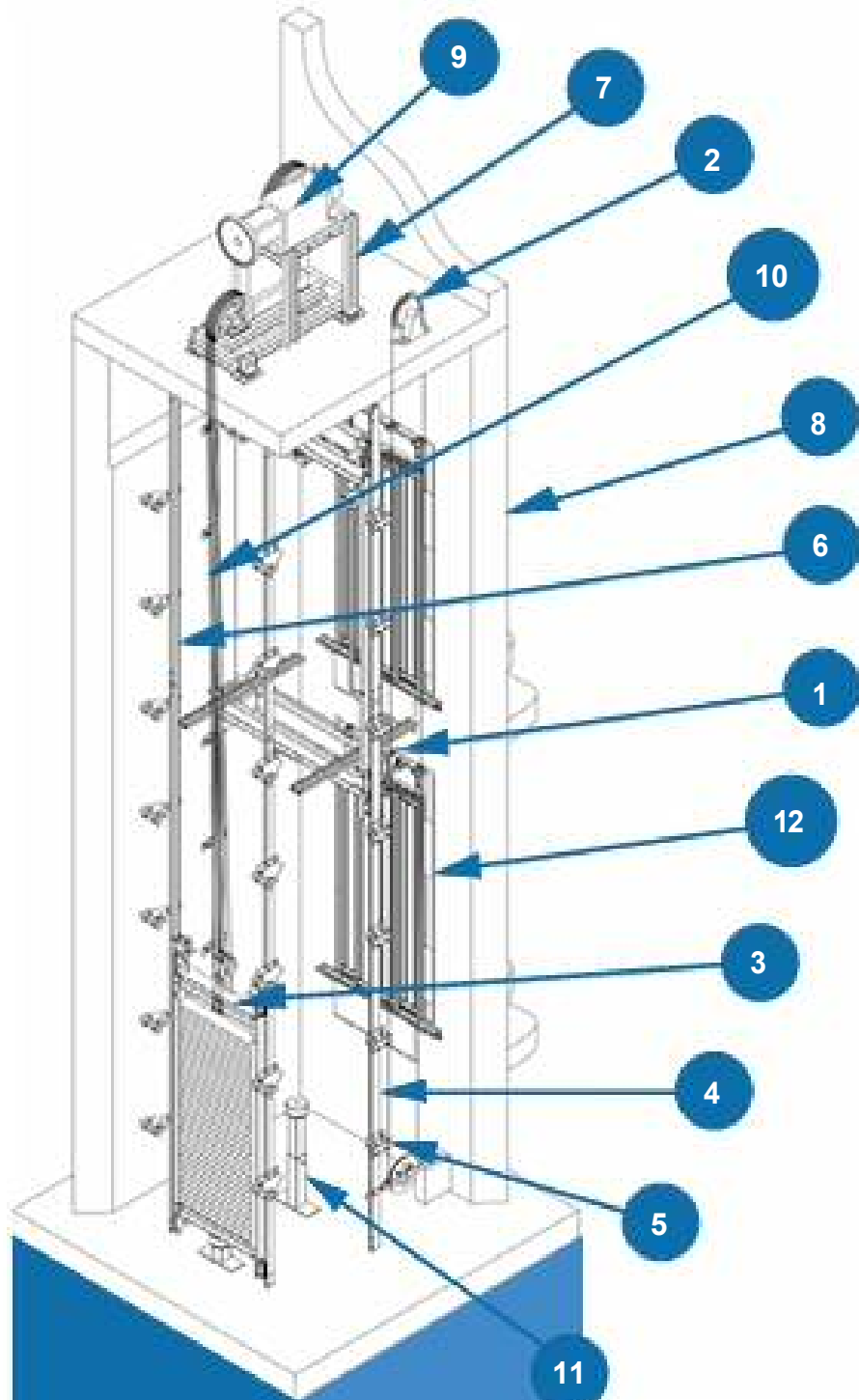


**For cost effective installations
WE ALSO SUPPLY 2
Speed Motors
for speeds 0.8 m/s to 1.2 m/s**

TECHNICAL CHARACTERISTICS.

pay load	car load	motor power	pulley diameter	rope number & diameter	ratio	travel height
320	1,00	5,5/4	Ø480	4 x Ø10	36/1	24(24-48) with balance chain
	1,20	5,5/4	Ø440	4 x Ø10	55/2	
400	0,80	5,5/4	Ø440	4 x Ø10	44/1	
	1,00	5,5/4	Ø480	4 x Ø10	36/1	
	1,00	6,7/5	Ø480	4 x Ø10	36/1	
	1,20	6,7/5	Ø440	4 x Ø10	55/2	
480	0,80	6,7/5	Ø440	5 x Ø10	44/1	
	1,00	6,7/5	Ø480	5 x Ø10	36/1	
	1,00	7,5/5,5	Ø480	5 x Ø10	36/1	
	1,20	10/7,5	Ø440	5 x Ø10	55/2	
630	0,80	10/7,5	Ø440	5 x Ø10	44/1	
	1,00	10/7,5	Ø480	5 x Ø10	36/1	

2 speed motors are normally used in more economical installations for both passenger lift systems, and goods-passenger lifts where speed and efficiency are not the priorities to the client. These configurations are always applied in a traction with machine room scenario. For 2 speed motors, we offer a range from 320kg rated load to 630kg rated load on a 1:1 suspension system. Higher rated loads are available upon advice. Speeds range from 0.8m/s to 1.2m/s.



- CAR SLING. 1
- SPEED GOVERNOR. 2
- COUNTERWEIGHT FRAME. 3
- CAR GUIDE RAILS. 4
- GUIDE RAIL BRACKETS. 5
- COUNTERWEIGHT GUIDE RAILS. 6
- MACHINE SUPPORT. 7
- SHAFT WALL. 8
- MACHINE. 9
- ROPES. 10
- BUFFER BASE. 11
- LANDING DOORS. 12

TRACTION MACHINE ROOM VVVF Speed - 1,00m/s

Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		1:1	1:1	1:1	1:1	1:1	1:1	1:1
Max Travel	mm	60000	60000	60000	60000	60000	60000	60000
Required Overhead	mm	3400						
Required Pit	mm	1200						
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	4.0	4.0	5.5	5.5	7.4	9.2	9.2
Pulley	mm	Ø 400	Ø 400	Ø 400	Ø 400	Ø 520	Ø 520	Ø 520
No Of Ropes		4	4	4	5	4	5	5
Ropes Dimension	mm	Ø 10	Ø 10	Ø 10	Ø 10	Ø 11	Ø 11	Ø 11
Buffer Type		ENERGY ACCUMULATION (ELASTIC)						

TRACTION MACHINE ROOM VVVF Speed - 1,60m/s

Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		1:1	1:1	1:1	1:1	1:1	1:1	1:1
Max Travel	mm	60000	60000	60000	60000	60000	60000	60000
Required Overhead	mm	3400						
Required Pit	mm	1200						
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	5.0	7.0	7.0	8.1	11.2	12.6	12.6
Pulley	mm	Ø 400	Ø 400	Ø 400	Ø 400	Ø 520	Ø 520	Ø 520
No Of Ropes		4	4	4	5	4	5	5
Ropes Dimension	mm	Ø 10	Ø 10	Ø 10	Ø 10	Ø 11	Ø 11	Ø 11
Buffer Type		ENERGY DISSIPATION (hydraulic)						

Technical Specifications.

TRACTION MACHINE ROOM 2 SPEED - 0.63m/s								
Specifications								
Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		1:1	1:1	1:1	1:1	1:1	1:1	1:1
Max Travel	mm	60000	60000	60000	60000	60000	60000	60000
Required Overhead	mm	3400						
Required Pit	mm	1200						
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	4	4	4	4.9	6	7.4	7.4
Pulley	mm	Ø 400	Ø 400	Ø 400	Ø 400	Ø 520	Ø 520	Ø 520
No Of Ropes		4	4	4	5	4	5	5
Ropes Dimension	mm	Ø 10	Ø 10	Ø 10	Ø 10	Ø 11	Ø 11	Ø 11
Buffer Type		ENERGY ACCUMULATION (ELASTIC)						

TRACTION MACHINE ROOM 2 SPEED- 0.80m/s								
Specifications								
Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		1:1	1:1	1:1	1:1	1:1	1:1	1:1
Max Travel	mm	60000	60000	60000	60000	60000	60000	60000
Required Overhead	mm	3400						
Required Pit	mm	1200						
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	3.5	4.9	4.9	5.5	6	9.2	9.2
Pulley	mm	Ø 400	Ø 400	Ø 400	Ø 400	Ø 520	Ø 520	Ø 520
No Of Ropes		4	4	4	5	4	5	5
Ropes Dimension	mm	Ø 10	Ø 10	Ø 10	Ø 10	Ø 11	Ø 11	Ø 11
Buffer Type		ENERGY ACCUMULATION (ELASTIC)						



Traction MRL System.

Traction drive Machine Room-Less (MRL) lifts have the entire lift system located within the lift shaft. The smooth and quiet driving unit (situated within the head of the shaft) work most efficiently with the counter-weight system greatly reducing power consumption. These systems are also simple to maintain, without the need of oils that need replacing after a number of years. Therefore, the combination of low cost maintenance, and minimal electrical energy consumption, equate to excellent long term low running costs.

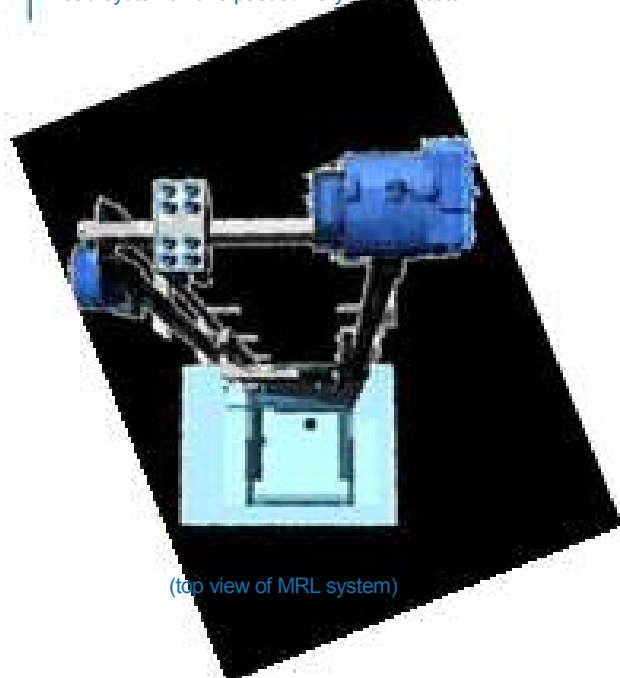
Our MRL traction lift range has capacities of 4 persons up to 33 persons and are available with many choices of options including adjacently sited open-through doors.

Technology in motion.

The lift control is based upon microprocessor technology with an energy efficient gearless drive system. The incorporation of multi-layer technology has reduced the size of our controllers - just one of the many technical innovations included for within our MRL packages.

ADVANTAGES.

- No machine room means maximum utilization of building space within all relevant regulations.
- Energy Saving: MRL Gearless saves you up to 40-50% on energy running costs, thanks to the Permanent Magnet Gearless Drive system.
- Lower construction costs because there is no need to build a machine room.
- No visible machine room gives the architect more flexibility in the building's design.
- MRL Gearless delivers unparalleled precision and ride comfort for this class of MRL elevator.
- Safety for the long term, components and sub-systems have passed very severe tests.



(top view of MRL system)



Our Gearless Motors.

A3 Ready

SILENT AND ENERGY SAVING



Our Gearless motor has a compact design for roomed and roomless elevator system applications.

Suitable for high capacities, the load currents are based on stated shaft efficiencies for 24 meter travel height.

Each of our motors is equipped with a Heidenhain absolute encoder. Each motor is CE certified and equipped with electro-magnetic disc brakes, approved as a safety device for ascending car overspeed protection. Our brakes fulfill EN 81-1 A3 standard, sections 9.10 - 9.11 and 12.4.2

Due to its direct drive technology the Gearless Motor provides maximum comfort and minimum noise level in the car.

From Standard we are providing 40% energy saving, when compared with traditional geared motors. The maximum speed is 2,5 m/s.

Motor Type	Load-Min/Kg	Load-Max/Kg	Pulley dia & Rope number	Motor Power-Kw	Load Current-A	Brake Torque
SMT 140 AC-15	320	400-650	Ø210-7*Ø6,5(#)	1,9-3,0-4,8	6,7-9,6-13,4	640
SMT 140 AC-20	400	500-650	Ø240-7*Ø6,5(#)	1,9-3,3-5,3	7,5-10,9-15,9	850
SMT 140 AC-10	320	450-650	Ø210-4*Ø6,5(#)	1,8-2,8-5,5	5,6-8,5-13,4	420
SMT 140 AC-10	320	450-650	Ø240-4*Ø6,5(#)	1,8-2,8-5,5	5,6-8,5-13,4	420
SMT 140 AC-15	320	450-650	Ø320-7*Ø8	1,9-3-4,8	5,7-8,1-11,3	640
SMT 140 AC-10	400	500-700	Ø210-5*Ø6,5(#)	2,1-3,4-5,1	6,1-9-14,7	420
SMT 140 AC-15	400	500-700	Ø240-5*Ø6,5(#)	3-4,8-7,5	7,5-9,8-13,6	640
SMT 140 AC-15	400	500-800	Ø320-4*Ø8	1,9-3-4,8	6,7-9,6-12,8	640
SMT 140 AC-10	480	500-800	Ø210-5..6*Ø6,5(#)	2,1-3,4-5,1	7-10,6-16,7	640
SMT 140 AC-15	480	500-800	Ø210-5..6*Ø6,5(#)	3-4,8-7,5	8,1-11,4-15,9	640
SMT 140 AC-15	480	500-800	Ø240-5..6*Ø6,5(#)	3-4,8-7,5	8,1-11,4-15,9	640
SMT 140 AC-20	480	600-900	Ø320-4*Ø8	2,5-4-6,4	8-11,3-16,3	850
SMT 140 AC-15	630	700-1100	Ø210-7*Ø6,5(#)	3-4,8-7,5	9,4-13,2-18,4	640
SMT 140 AC-20	630	700-1100	Ø240-7*Ø6,5(#)	3,3-5,3-8,5	8,9-13-20,6	850
SMT 140 AC-20	800	900-1200	Ø210-9*Ø6,5(#)	4-6,4-9,7	12,2-17,6-25,7	850

*Car Speed (m/sec) of 0,63-1,00-1,60 applies to all the above motor types.

Ziehl-Abegg (OPTIONAL)



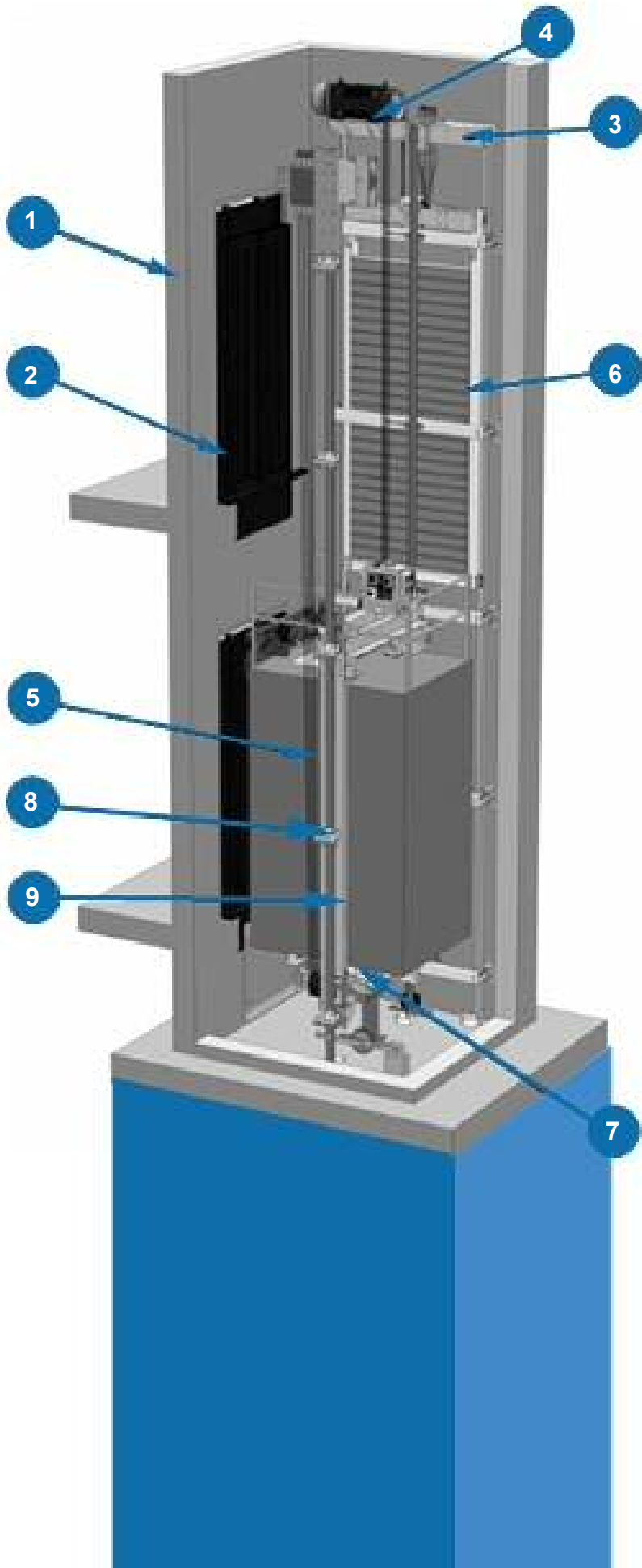
Specification:

The Ziehl-Abegg ZETATOP SM200 offers an innovative gearless elevator machine with a traction sheave of 240 mm for 6/6,5 mm suspension ropes. Now with the small ZETATOP machine-roomless elevators, payloads up to 1,000 kg can be realised.

Attributes and special features:

The ZETATOP offers all advantages of a modern permanent magnet excited synchronous motor: It is compact and can be mounted in many ways, even in the smallest elevator shaft. The ride quality and the smoothness of these kinds of drives is unsurpassed. The certified brake can be used in addition as a safety device against uncontrolled car movement upwards.

Loads of up to 1600 kg with 2:1 suspension, speeds of up to 2,5 m/s.

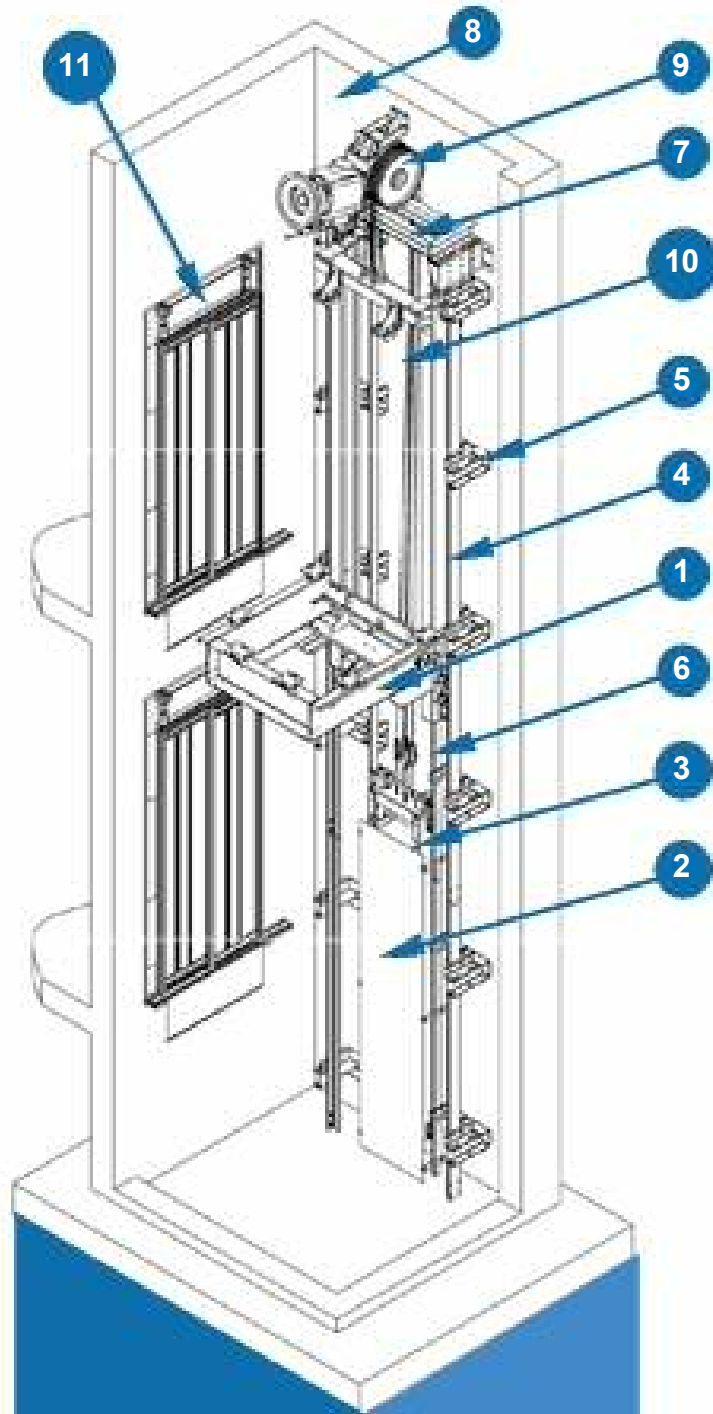


- SHAFT WALL. 1
- LANDING DOOR. 2
- BED PLATE. 3
- MOTOR. 4
- WIRE ROPE. 5
- COUNTERWEIGHT SLING. 6
- CAR SLING. 7
- GUIDE RAIL BRACKET. 8
- GUIDE RAIL. 9

TRACTION MACHINE ROOM LESS VVVF - Speed 1,00m/s								
Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		2:1	2:1	2:1	2:1	2:1	2:1	2:1
Max Travel	mm	35000	35000	60000	35000	35000	35000	35000
Required Overhead	mm	3350			3450			
Required Pit	mm	1050			1130			
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	3	3	3.5	4.1	5.3	6.6	7.7
Pulley	mm	Ø 240	Ø 240	Ø 240	Ø 240	Ø 320	Ø 320	Ø 320
No Of Ropes		4	4	5	5	6	5	5
Ropes Dimension	mm	Ø 6.5	Ø 6.5	Ø 6.5	Ø 6.5	Ø 8	Ø 8	Ø 8
Buffer Type		ENERGY ACCUMULATION (ELASTIC)						

TRACTION MACHINE ROOM LESS VVVF Speed 1,60m/s								
Rated Load (Q)	Kg	300	375	450	630	750	900	1000
Number of persons		4	5	6	8	10	12	13
Acting		2:1	2:1	2:1	2:1	2:1	2:1	2:1
Max Travel	mm	35000	35000	35000	35000	35000	35000	35000
Required Overhead	mm	3400			3650			
Required Pit	mm	1050			1320			
Guide Rails		70x65x9	70x65x9	70x65x9	70x65x9	89x62x16	89x62x16	89x62x16
Counter-Weight Guide Rails		T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Motor Power	kw	3.7	4.5	4.5	6.6	8.7	10.5	11.1
Pulley	mm	Ø 240	Ø 240	Ø 240	Ø 240	Ø 240	Ø 320	Ø 320
No Of Ropes		4	4	5	5	6	6	6
Ropes Dimension	mm	Ø 6.5	Ø 6.5	Ø 6.5	Ø 10	Ø 8	Ø 8	Ø 8
Buffer Type		ENERGY ACCUMULATION (ELASTIC)						

Technical Specifications.

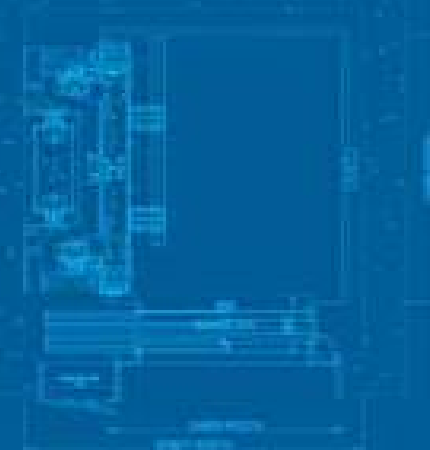


- CAR SLING. 1
- COUNTERWEIGHT PROTECTION SCREEN . 2
- COUNTERWEIGHT CAR FRAME. 3
- CAR GUIDE RAILS. 4
- GUIDE RAIL BRACKETS. 5
- COUNTERWEIGHT GUIDE RAILS. 6
- MACHINE SUPPORT. 7
- SHAFT WALL. 8
- MACHINE. 9
- ROPES. 10
- LANDING DOORS. 11

Traction MRL -L- Chassis

Rated Load	375 Kg	450 Kg	630 Kg	750 Kg	1000 Kg
No of Persons	5	6	8	10	13
Acting	2:1	2:1	2:1	2:1	2:1
Max Travel	30000mm	30000mm	30000mm	30000mm	30000mm
Supported Load (P+Q) max	1195 Kg	1315 Kg	1545 Kg	1765 Kg	2126 Kg
Min Headroom	3600mm	3600mm	3600mm	3800mm	3800mm
Min Pit Depth	1200mm	1200mm	1200mm	1200mm	1200mm
Car Guide Rails	T70x65x9	T70x65x9	T89x62x16	T89x62x16	T114x89x16
CW Guide Rails	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5
Car DBG	870mm	970mm	970mm	1070mm	1070mm
CW DBG	380mm	480mm	480mm	610mm	610mm
Buffer Type	ACLA 165x80	ACLA 165x80	ACLA 165x80	ACLA 165x80	ACLA 165x80
Safety Gear	progressive	progressive	progressive	progressive	progressive
Machine type	gearless	gearless	gearless	gearless	gearless
Motor Power	3.7kW	5.9kW	5.9kW	7.4kW	9.2kW
Pulley	Ø360mm	Ø360mm	Ø360mm	Ø400mm	Ø400mm
Nominal Speed	1.0m/s	1.0m/s	1.0m/s	1.0m/s	1.0m/s
Ropes	4xØ6.5 mm	4xØ6.5 mm	5xØ6.5 mm	5xØ8 mm	5xØ8 mm

Single entrance - guide rails at left



Adjacent entrances - guide rails at left



Through Car - guide rails at left



Personnel	Rated Load Kg	Min Headroom mm	Car Width mm	Car Depth mm	Shaft Width mm	Shaft Depth mm	Door Type
5	375	3600	900	1200	1400	1600	2PT 700x2000
6	450	3600	1000	1300	1500	1700	2PT 700x2000
8	630	3600	1100	1400	1600	1800	2PT 800x2000
10	750	3800	1250	1500	1800	1900	2PT 900x2000
13	1000	3800	1400	1600	1950	2000	2PT 1000x2000

Door Selection.

Our doors are designed to ensure the best performances in its range of market. They are the best solution to satisfy the requirements of new residential buildings, of refurbishing installations, and over all of medium and low duty installations.

Advantages:

- Door lock unit approved by LIFTINSTITUUT.
- Designed for silent working. Runs smoothly at a level of whisper even at night conditions.
- High quality materials and unique design for life time maintenance free comfort.
- 4 seconds opening time. (for 800 mm doors).
- Smooth start and finish movements.
- Cost effective and reliable.

Fire Rating.















OUR DOORS ARE FIRE RATED FOR A MINIMUM OF 60 MINTUES, AS TESTED BY LIFTINSTITUUT

Doors In Production.

- Semiautomatic Single Leaf**
Left Hinge or Right Hinge
600mm-1000mm
- Automatic Bus Type Car Door**
Central Opening
600mm-1000mm
- Semiautomatic Double Leaf**
Central Opening
1100mm-2000mm
- Automatic 2 Panel Telescopic**
Left or Right Opening
600mm -1600mm
- Automatic 2 Panel Central**
Central Opening
600mm - 1600mm
- Automatic 3 Panel Telescopic**
Left or Right Opening
700mm - 2600mm
- Automatic 4 Panel Telescopic**
Central Opening
700mm - 3000mm
- Automatic 6 Panel Telescopic**
Central Opening
1600mm - 3000mm

Door Finishes.

Standard Finishes:	* Optional Finishes:
 Landing Doors RAL 7032 - epoxy painted.	 1.  3.  5.  7.  9.
 Car Doors Brushed stainless steel.	 2.  4.  6.  8.  10.

* 1. Satin Stainless Steel 2. Mirror Stainless Steel 3. Brushed Gold 4. Gold Mirror 5. Linen Stainless Steel (antivandal) 6. Square Design Silver Stainless Steel 7. Islamic Design Gold 8. Leather Stainless Steel 9. Tulip Design Silver Stainless Steel 10. Kare Stainless Steel



Semi - Automatic Doors.

We manufacture single-leaf and double-leaf sheet metal doors, having a double wallet depth of 51mm, with self-lubricating invisible hinges.

We supply the doors

- With a pre-installed damper and spring closing system.
- Rust proof finishing RAL 7032.
- Optional 100x600 window with tempered glass and aluminium frame



- Natural anodized aluminum door depth mm 50.
- Semi-automatic invisible hinges with automatic arm damper in header frame.
- Panoramic window with full crystal and stratified transparent leaf mm 5+0,76+5.

Advantages

- Ideal solution for prestigious and panoramic installations
 - Available in panoramic version with glass panels or glass framed panels
- We supply landing door and car door that is perfect for prestigious installations when aesthetic and performances are decisive factors.
- The wide finishing range and the potential special solutions makes our doors suitable to customised architectonic designs.
- We supply glass doors with frame, frameless glass doors, as well as round version with topdriven mechanism and in round version with underdriven mechanism.
- In particular the mechanism positioning under the door lightens the design of panoramic lifts granting to them a higher aesthetic harmony.

Bus Doors.



The bus type car door is a light car door with reduced overall dimensions; it's an ideal solution in case of modernization with limited weight and space.

This car door was developed not only in a way that will not change the weight of the existing lift, but also in a way that will not modify the car structure thank to its reduced overall dimensions and to its folder opening. It's available also an integrated mechanical release system for swing landing doors.

Special Doors.



Operating panels.

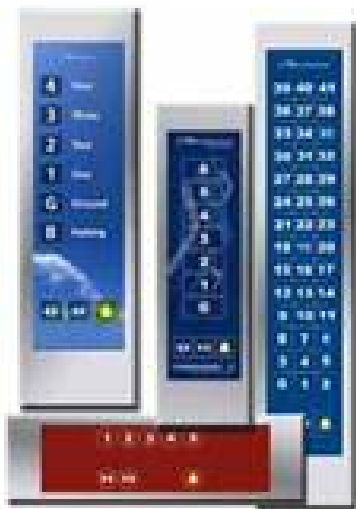


1. Standard - orange
2. Standard - white
3. Glass - touch sensitive
4. Dial Indicator

TOUCH SCREEN

A customisable touch interface to match your building decor,
 • Modular touch-enabled car operating panel

- Bespoke design to aesthetically complement car interior
- Available in two heights: up to 21 stops and up to 42 stops
- Can be mounted either vertically or horizontally
- Ideal for low spec large quantity installations
- Customised colour, naming, layout and branding
- Limited configurability around fixed hardware
- Not reconfigurable in-service
- Static display



HANDRAIL TUBE



1. DDA COMPLIANT

extra large buttons

2. FIREFIGHTER

Waterproof back box IPX3

Display with sealed screen

Cover plate IPX3 resistant
 Triangular 2C waterproof key

Fire Service access level pictogram

3. VANDAL RESISTANT

4. TELEPHONE/ MULTI-FUNCTIONAL BOX

5. NETWORKED BUILDING DISPLAYS





Standard - orange



Standard - white



Firefighter LOP

Landing Operating Panel
D13 serial position indicator
Cover plate IPX3 resistant
BW signalling
Low-profile key switch

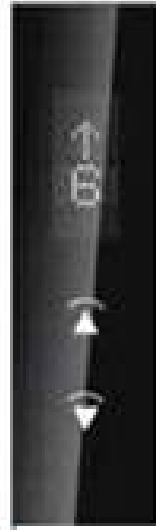


Firefighter LOP

Landing Operating Panel 130x500
Firefighters lift pictogram
Triangular 2C waterproof key switch
Cover plate IPX3 resistant



Touch sensitive



Glass - touch sensitive



Vandal Proof LOP

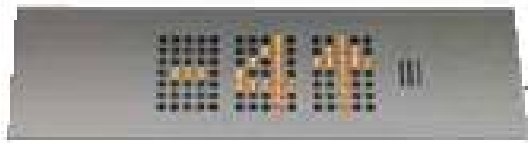


Touch TFT screen



Shell LOP

For tougher environments, water resistant control panel delivers maximum protection against water and dust



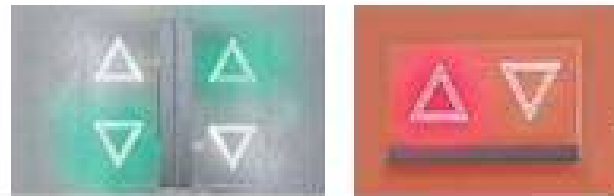
Vandal Proof



Display and Glass Arrows



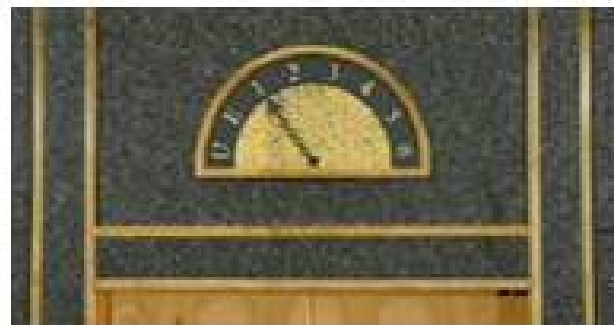
Standard - White



Side Direction Indicators



Top Direction Indicators



Dial Indicators



Freight Lift.

We design, install and service a wide range of affordable goods lift solutions including custom design and custom built lifting equipment including mezzanine floor goods lifts for a wide range of different applications.

Our range of reliable and cost effective goods lift products include heavy duty and light duty mezzanine floor lifts, bay lifts, and scissor lifts.

In-house design and manufacturing capabilities allow quick and easy production of custom designed and built lifting equipment in the case of specialist requirements.

A choice of extremely cost-effective service packages which include examination and testing ensure reliable service throughout the life of your investment.

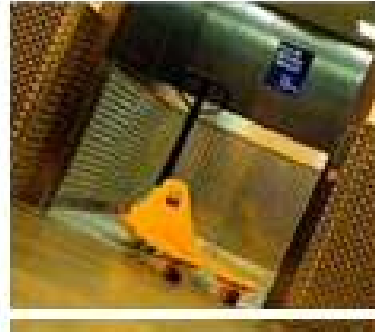
Our goods lifts are designed to offer the simplest, quickest, most economical and reliable solution to heavy lifting problems for goods only or for goods with an attendant in warehouses, industries, supermarkets, shops and in any environment in which it is necessary to move pallets, loads, trolleys, containers, heavy goods, etc.

GOODS ONLY LIFTS.

- Mini Goods only lift with rated load from 500kg to 1500 kg;
- Macro Goods only lift with rated load from 1500kg to 10000kg;
- Speeds up to 0.15m/s as per machinery directive
- Drive : Hydraulic

GOODS PASSENGER LIFTS.

- Goods Passenger lifts with an attendant with rated load from 500 to 2500 kg;
- Speeds up to 1m/s
- Drive : Traction or Hydraulic



A WIDE RANGE OF DIFFERENT APPLICATIONS

The the ideal solution.

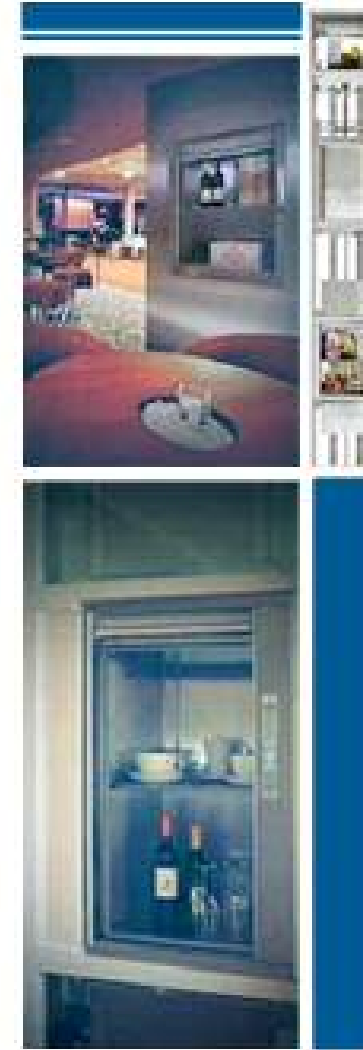
We have developed a highly modern range of dumbwaiters which feature cutting edge space saving technology with a pleasing aesthetical design. It is the ideal solution in restaurants, hotels, chemist's, hospitals, offices, shops, 2-floors houses for the easy and uncomplicated moving of packages and letters, medicines, crockery and cutlery.

The range includes models from 50 to 150 kg offering a wide choice of car sizes.

All the models operate inside a rapidly erected structure supported frame which is galvanised for longer life. "Rise and fall" shutters or single hinged manual landing doors are finished in grey baked enamel RAL 7038 (standard),

RAL colours range or made in stainless steel AISI304. The landing push button station is fitted with "lift arrival", "lift occupied" and "lift position" indicators.

It can travel up to a maximum 30 meters and up to three entrances can be fitted on each floor.



MICROLIFT IS THE IDEAL SOLUTION

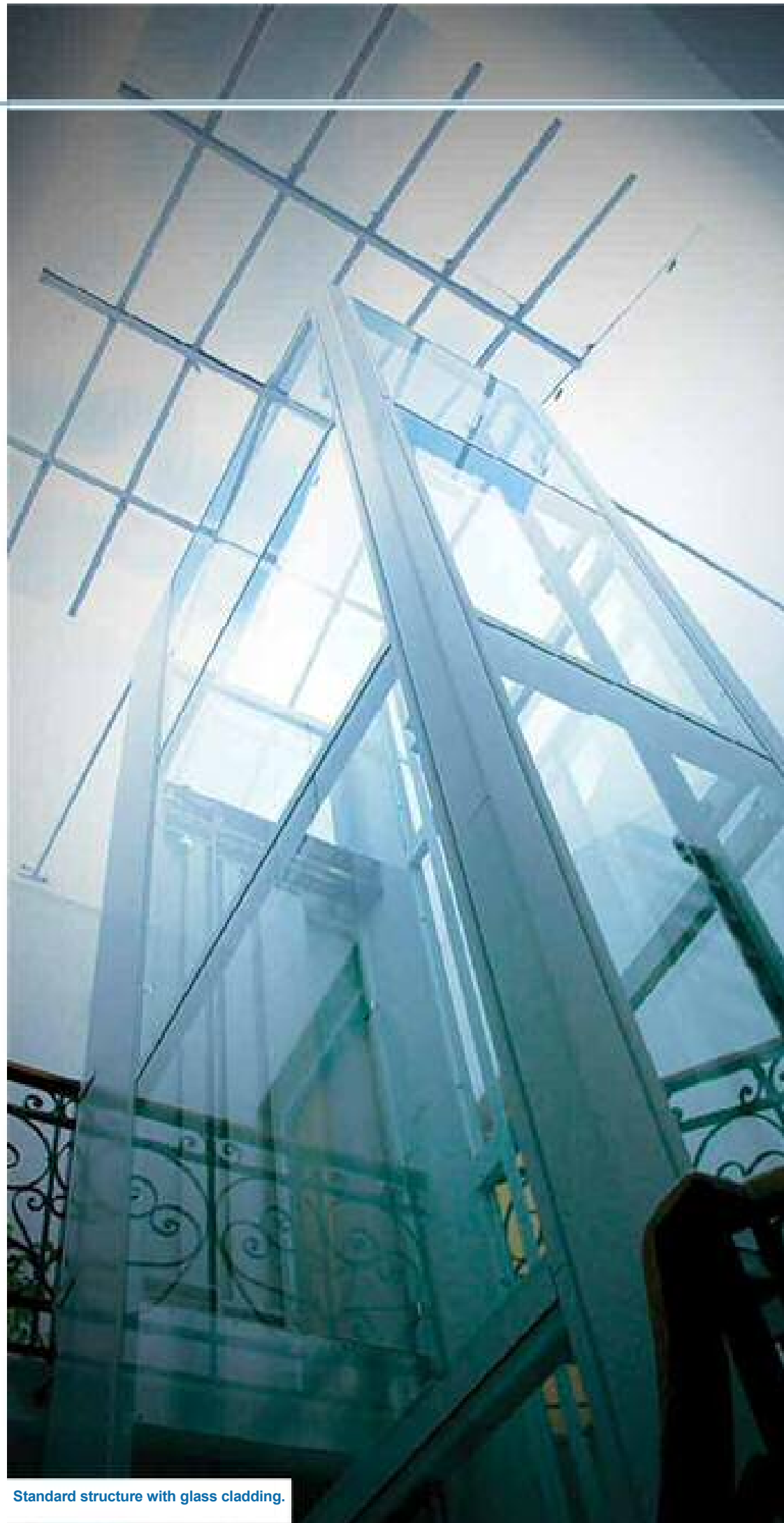


Metal Structures.

We provide structures for elevators that are standardized and flexible.

Standardization results into fast and easy assembly sequence with savings of time and money and noticeable improvement in delivery time.

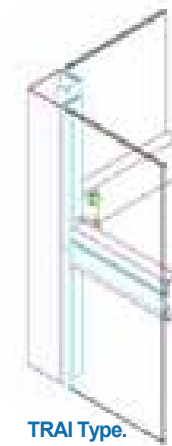
On the other hand, flexibility results into adaptability to many different buildings, thus greater planning liberty while providing a wide range of finishings and claddings, including stainless steel and glass and wide range of RAL colours, with powder coating.



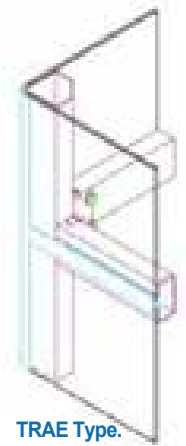
Standard structure with glass cladding.

“ PROVIDING A WIDE RANGE OF FINISHINGS AND CLADDINGS. ”

-  RAL 7032
-  RAL 7030
-  RAL 7011
-  RAL 5014
-  RAL 6009
-  RAL 9002
-  RAL 9001
-  RAL Slate Grey
-  RAL Glitter Grey



TRAI Type.



TRAE Type.

Car Lifts.

Our CAR LIFT is designed to satisfy all demanding requirements. Made by the strongest materials and equipped with highest quality safety devices.

Where space constraints mean that a ramp cannot be used to move vehicles between levels of a building or it is required to transport vehicles between multiple levels, a vehicle elevator is a practical solution.

Operational by remote control or control panel there is no need to leave your vehicle, you simply drive in, let the lift transport you between levels and drive out.

In a through-car configuration, the elevator doors will enable you to enter and exit the lift whilst always moving in a forwards direction.

Engineered to the highest quality standards the elevator is smooth, quiet and reliable. The elevator shaft and cabin can be sized to accommodate your building and vehicle dimensions.



INTERIOR

- Tight lift cabin to provide stiffness and stability
- Automatic cabin and landing doors
- Recessed light in ceiling
- Embossed steel floor
- Rubber bumper rails on car walls
- Metal door sills
- Optional car back view mirror
- Two car operation panel on opposite walls
- Painted car walls and doors in colour of RAL
- Optional special plastic sheet laminate "Skinplate".

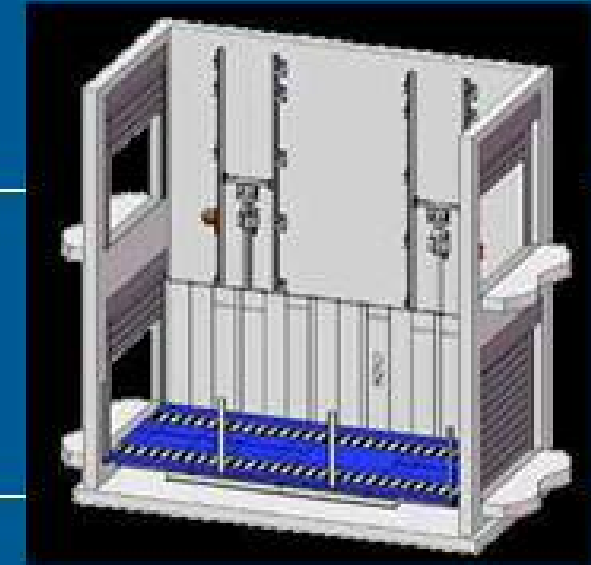


ELECTRONICS

- System for symmetry reducing of the load of the cabin
- Electrical levelling with open doors
- 2 photocells or a light curtain on every entrance
- Forced ventilation
- Standard soft start for smooth stopping and starting of the lift
- Gong signal, LCD Display with car position
- Button for door opening and for door closing
- Optional Distance control system
- Preparation for system for restricted access
- Optional voice synthesizer
- Automatic opening the doors in case of electric flow breakage
- Strong illumination entrance
- Optional traffic lights on exits
- Overweight safety device, includes an acoustic and shining signal
- Emergency lighting
- Rupture valve against ruptured flexible hose
- In case of electrical flow breakage the lifts to the next stop, allowing the doors to open and the vehicle to exit the lift
- Photocells barrier gives vehicle whole protection when entering or exiting the lift
- Buffers under the cabin.



MADE BY THE STRONGEST MATERIALS.



Specifications.

	RATED LOAD: 2000KG				RATED LOAD: 2500KG			
Travel (T) -mm	3000	6000	9000	12000	3000	6000	9000	12000
Pit Depth -mm	300	300	300	300	350	350	350	350
Headroom (HD) -mm	2600	2600	2600	2600	2600	2600	2600	2600
Platform Width (PW) -mm	2100-2500	2100-2500	2100-2500	2100-2500	2100-2500	2100-2500	2100-2500	2100-2500
Shaft Width (SW) -mm	PW+500	PW+500	PW+500	PW+500	PW+500	PW+500	PW+500	PW+500
Platform Depth (PD) -mm	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500
Shaft Depth (SD) -mm	PD+50	PD+50	PD+50	PD+50	PD+50	PD+50	PD+50	PD+50
Piston	Ø100x5	Ø100x5	Ø100x5	Ø100x5	Ø100x5	Ø100x5	Ø100x5	Ø100x12
Max Pressure -bar	52	52	53	54	56	56	56	56
Speed Max -m/sec	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Motor - Kw	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7

	RATED LOAD: 3000KG			
Travel (T) -mm	3000	6000	9000	12000
Pit Depth -mm	350	350	350	350
Headroom (HD) -mm	2600	2600	2600	2600
Platform Width (PW) -mm	2100-2500	2100-2500	2100-2500	2100-2500
Shaft Width (SW) -mm	PW+500	PW+500	PW+500	PW+500
Platform Depth (PD) -mm	5000-5500	5000-5500	5000-5500	5000-5500
Shaft Depth (SD) -mm	PD+50	PD+50	PD+50	PD+50
Piston	Ø100x5	Ø100x5	Ø100x7.5	Ø100x10
Max Pressure -bar	60	60	60	60
Speed Max -m/sec	0.15	0.15	0.15	0.15
Motor - Kw	7.7	7.7	7.7	7.7

Turntable.

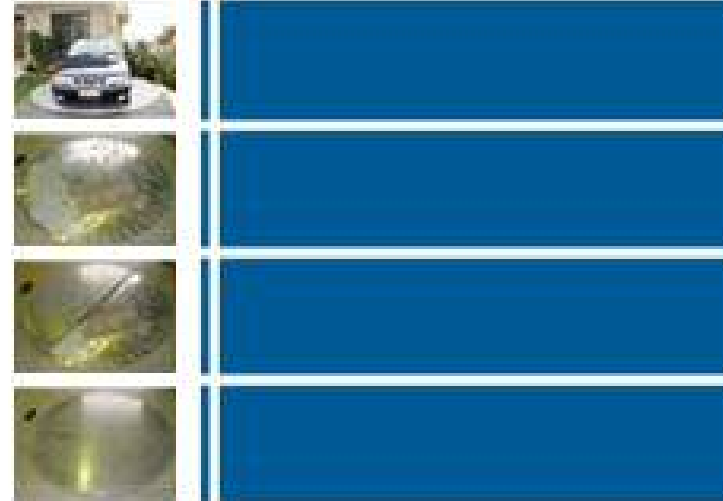
HEIGHT
50-55 MM

DIAMETER
3.65 M

TOP PLATE
MARINE GRADE HIGH TENSILE
5MM ALUMINIUM

FRAME
STAINLESS STEEL

MOTOR
12V RECHARGABLE BATTERY
(SOLAR RECHARGABLE BATTERY OPTIONAL)



Independent parking system.

Whether you're the owner of a public parking structure or just want to make the most out of your private garage, JIG has a selection of premium parking lifts to truly maximize your work space. We offer two-post, four-post and Tilting Parking Lift configurations with the smallest footprints possible. As with any of our products, safety and durability are our primary concern, so these rugged, compact parking lifts feature automatically engaging spring-actuated locks, plenty of hard-working muscle for busy garages and ergonomic operator controls for superior ease-of use.

- Multiple intelligent operating functions, can adjust different rise angle of platform.
- Easy to park and pick up cars.
- Platform can achieve smoothly forward, backward, rise and descend of different functions.
- Adopting two units or multi units this can meet different customer's parking requirements.
- Hydraulic balancing system allows safe, reliable and stable operation.
- Share the column, saving installation space mostly.
- Low maintenance costs.



2 Layer lift parking.

- Available both inside and outside
- Simple Structure
- Low Cost
- Easy Maintenance
- Hydraulic simple parking system
- 2 layer parking lift
- Lift parking equipment
- Good price and easy control



	Upper vehicle position	Down vehicle position
	D(Large-sized car)	T(Special large-sized car)
Cars held by the parking garage.	Length of car -mm ≤5000	≤5300
	Width of car -mm ≤1850	≤1900
	Height of car -mm ≤1550	≤1550
	Car weight -kg ≤1700	≤2350
Drive way	Chain	
Motor	Rise or fall (lifting)	(KW)Power 2.2
Operation mode.	Speed Range	4
Power	3phases380V 50HZ	
Average access time	Power	≤= 75S

MAKE THE MOST OF YOUR GARAGE SPACE.

Automatic parking system.

The parking complex can be situated underground / above the ground. The building for the parking structure is made of concrete and needs to be as per the design of the parking systems manufacturer to accommodate all the electro-mechanical components needed to operate the Automatic Multilevel Parking System. Different levels in the Parking Complex can be of a different heights (1.80 m - 2.20 m) to accommodate cars of varying heights - compact cars, SUV's, Vans, etc and achieve maximum volume efficiency.

The main structure is composed of H-shape steel, with the designing of no posts between car-lifting frames; this structure is stable enough for the car to go out and in expediently. Driven by the motor chain the upper car-lifting platform can move vertically, four points moving up and down stably at the same time.



Hydraulic controller.



The ACH hydraulic controller series is designed for hydraulic lifts and can be used in operation of up to 8 stops. The controller can also be mounted within a MachineRoomLess cabinet for hydraulic.

GENERIC SPECIFICATIONS:

- Simplex, duplex, triplex... group operation up to 8 lifts
- Parallel, cabin serial, cabin & landings serial communication
- Internal 3-phase and thermistor monitoring circuits
- Detailed (date,time,state) error memory for 250 errors
- Short calling or sending detailed GSM message in case of error
- Optional Real-time clock and date
- Computer access via the internet, local area network and USB
- CAN-Bus based shaft and group communications
- In conformity with EN81-2 standard and CE certified as control board and control panel
- In conformity with EN81-72 fire-fighter lifts standard
- Counter, shaft encoder and inverter encoder output selections for floor data
- Special software for lift access security

Traction mrl controller.



The ACT-MRL series is designed for traction machine-room-less lifts. We use a single cabinet controller (400x350x2150mm). Thanks to its flexible and modular structure it can be expanded from a simple system to 32-stop 8-lift group application. Using inverters supplied by Yaskawa or Fuji Frenic, this controller offers the latest cutting edge technology being offered by the market today.

- Simplex, duplex, triplex... group operation up to 8 lifts
- Parallel, cabin serial, cabin & landings serial communication
- Internal 3-phase and thermistor monitoring circuits
- Detailed (date, time, state) error memory for 250 errors
- Short calling or sending detailed GSM message in case of error
- Optional Real-time clock and date
- Computer access via the internet, local area network and USB
- CAN-Bus based shaft and group communications
- In conformity with EN81-1 standard and CE certified as control board and control panel
- In conformity with EN81-72 firefighter lifts standard
- Counter, shaft encoder and inverter encoder output selections for floor data
- Special software for lift access security

Traction with machine room controller.



The ACT series is designed for electrical traction lifts with machine-room. Thanks to its flexible and modular structure it can be expanded from a simple system to 32-stop 8-lift group application. Using inverters supplied by Yaskawa or Fuji Frenic, this controller offers the latest cutting edge technology being offered by the market today.

- Simplex, duplex, triplex... group operation up to 8 lifts
- Parallel, cabin serial, cabin & landings serial communication
- Internal 3-phase and thermistor monitoring circuits
- Detailed (date, time, state) error memory for 250 errors
- Short calling or sending detailed GSM message in case of error
- Optional Real-time clock and date
- Computer access via the internet, local area network and USB
- CAN-Bus based shaft and group communications
- In conformity with EN81-1 standard and CE certified as control board and control panel
- In conformity with EN81-72 firefighter lifts standard
- Counter, shaft encoder and inverter encoder output selections for floor data
- Special software for lift access security

Slimline Traction mrl controller.



The slim version of the proven control system has been developed especially for installation in door frames.

The extremely narrow width of only 106 mm along with the optimized size and position of all controls facilitate easy operation, even through small access openings.

FOR MACHINE ROOM-LESS SYSTEMS

The FST-2s is designed for systems without machine room and features an integrated lift attendant panel. It provides all functions required for passenger evacuation by a lift attendant and for test drives.

The integrated lift attendant panel has the following features:

- Emergency mode monitor
- Switch Evacuation on/off
- Auxiliary control up/down
- Key switch for brake test and shaft door reset
- Brake bleed button for brakes A and B
- Volts-free programmable button

INTEGRATED SPECIAL FUNCTIONS

The FST-2s includes all special functions available for the FST-2 and also facilitates the following functions:

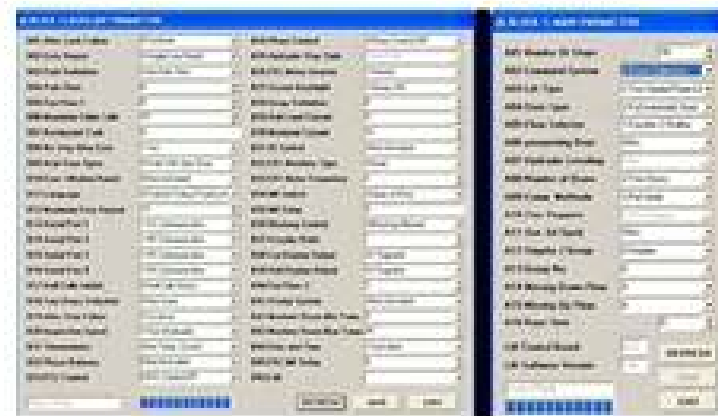
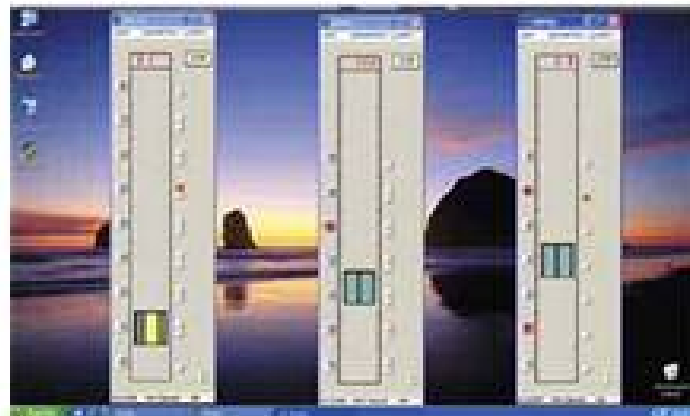
- EBS Assistant - levelled evacuation stop assistant
- FAT Assistant - speed governor test assistant

INSTALLATION OPTIONS

- Door frame installation
- Surface-mounted control cabinet
- Flush-mounted control cabinet

The FST-2s can also control groups of up to 8 lifts and 64 floors.

Remote monitoring.



- The motion of the lift can be observed online via local network or internet.
- Up to 32 lifts can be observed online via local network or internet.
- All parameters can be observed and edited.

Special controller options.

LIFTBOY CONTROL

In hotels or larger office buildings occasionally the lift is operated with personnel. In this case the elevator is not a so-called self driver, but the treatment of calls takes place via a Liftboy.

CONFERENCE DRIVE

In case of special events in hotels or larger office buildings it is often desired to only drive the lifts to certain floors, wait there for a while with opened doors and drive back to the ground floor automatically. This special control can be used for single lifts and lift groups with up to 32 floors and one door side.

MANAGEMENT DRIVE

In larger buildings or headquarters of companies there are often lifts with special to transport members of the management and their guests.

Call access control & call access concepts.

PENTHOUSE CONTROL

The Penthouse control (also known as visitor control or attika control) prevents passengers driving into certain floors without special action. Contrary to the conventional penthouse control with maximum 2 collect floors for each penthouse call this module can manage up to 16 different penthouse calls. Additionally you can specify more than 2 collect floors for each penthouse call.

SCHOOLHOUSE CONTROL

the schoolhouse control is an access control, which allows specific people to use the lift. In case of meetings the schoolhouse control can be disabled to make the lift usable for all passengers. Alternatively it is selectable if all calls should be locked for the normal use or only car or landing calls should be controlled by the schoolhouse control.

C&A WAREHOUSE CONTROL

This warehouse control orients itself around the lift standard of the enterprise C&A Mode GmbH & Co.KG, which allows special processing of given calls under certain conditions, locks car calls and protects landing calls. A code keyboard in the car operation panel allows the warehouse control to be set to various conditions, in which internal car calls are enabled or the landing call control and the basic position of the doors are manipulated. With a second code keyboard in the landing panel the lift can be switched off.

CODE LOCK

With the code lock control each normal car operation panel can be used as a code keyboard without the need of installing an external control system such as card reader or code keyboard. Both the automatic calls to various locked floors and the selective enable of several floors can be realized. Up to 15 different codes can be stored.

BANK CONTROL

Many security concepts require a strict separation of passengers of different user groups. An access mask defines the possible targets for each user group, the changeover between different user groups will be processed automatically if no call requests of the current usergroup are registered. In a single lift with up to 16 floors all in all 32 different user groups can be defined.

LOCKING OF CAR AND LANDING CALLS

The FST control unit allows to realize access controls with classic floor locks over key-switches or card readers. With suitable combination of floor locks, it is possible to realize compact access control concepts.

SECURITY CONTROL

the security control, designed for the employment in lifts in closed institutes or in penal institution, allows individual selectable security levels. Car and landing calls are processed in dead-man mode, a premature deactivated call button forces an emergency stop of the lift. Various security scenarios allow the retry of interrupted car or landing calls or lock the lift absolutely. An additional impact switch in the car and running texts in the floor indicators give information about possible danger in the car. Automatically alarmed security staff must now unlock the lift from a special landing panel.

Especially for clinics and hospitals.

LIFTBOY CONTROL

Infection drive function
This function deactivates the lift after a contaminated patient has been transported in it. This allows the car to be disinfected before further use.

EMERGENCY FUNCTION

The emergency function reserves one car (out of a group of 4 cars) for an emergency drive. The desired car reserved for emergency drives can be set and changed anytime as desired. During normal drive mode, the car does not take part in the group, "RESERVED" will be displayed on the floor indication displays. During emergency drive mode, the floor indication displays will show "EMERGENCY".

TRANSPORT FUNCTION

This function specifies one car (out of a 4 car group) for special transports. The desired car can be set, and changed at any given time. During normal drive mode, the car participates in the group. As soon as the key switch is activated, the lift will react to that call without accepting any other calls.

RESCUE DRIVE

By pressing the key switch on the landing panel in the main floor, all car and landing calls will be deleted and the car will drive into the main floor immediately and will resume there with open doors. After the keyswitch "RESCUE DRIVE" is activated in the car and the desired floor has been given, the lift will drive into the target floor without stopping at other floors and will resume there with open doors and blocks all car and landing calls. The car can be reset to normal drive mode either by defining a certain time, or by manually deactivating the rescue drive with a key switch.

HELICOPTER FUNCTION

Many hospitals and clinics have helicopter landing pads. To transport the casualties to the emergency ward/operation room immediately, the car will be provided in the floor of the landing pad. While the car is being kept in that floor, this function also allows emergency doctors to call the car on short notice and use the lift for single drives in priority mode.

LOCK FUNCTION

Function for installations with anterooms, which are used as security or disinfection locks. The function only allows one door to be open at a time.

SENIOR FUNCTION

The senior function is used mostly in homes for the elderly and avoids dementia patients leaving the station or floor without nursing staff. As soon as the car enters the floor with dementia patients, all existing landing calls will be ignored and the car calls blocked to retain the car in the floor. To leave the floor, a 4 digit code must be entered via a 10 key keyboard. After the code has been entered correctly, all car and landing calls will be approved. The code changes daily automatically, but can also be set to change every hour. As soon as the car is empty and closed, the car will return into normal drive mode automatically and will execute existing landing calls.

PSYCHIATRY FUNCTION

This function avoids unauthorised people to leave the floors of the psychiatry. Additionally a key switch on the car panel avoids unauthorised people to access the psychiatry's floors. If the car opens the doors in one of the psychiatry's floors, incoming landing calls will be blocked, all car calls will be blocked and the car will remain stationary with opened doors. The according key switches on the car or landing panel must be activated to unblock the lift. The car will close the doors afterwards and will be available in normal drive mode. There are two additional alarm signals for monitoring.

Special functions for car and load lifts.

LOAD BARRIER FUNCTION

When using load lifts with fork trucks, the car doors opposite can be accidentally damaged during loading. A cheaper alternative to reinforced car doors are loading barriers, which are located inside of the car and sink into the floor. These are risen out of the ground in front of closed doors to protect the doors of mechanical damage during loading and off-loading. Optionally traffic lights can be fitted inside the car or outside on the landing. Loading failures will also be identified.

CONTROL OF REVOLVING DOORS AND ROLLING GATES

Interface to generate triggering signals to open revolving doors or rolling gates, for example in use with car and load lifts. It can be used in lifts with up to 8 floors and 2 door sides and does not require any setting to the controller

RADIO CONTROLLED CALLS

The lift can be controlled by a 2 or 4 channel radio system additionally to or instead of car and landing panels. This function is designed for lifts with 2-4 floors and can be controlled with the desired amount of hand-held transmitters.

TRIGGERING LIFT GATES

Corresponding door signals in the control cabinet are needed to trigger lift gates (e.g. PEELLE or HÜTTER) as well as various rolling gates. To avoid the transmission from car to control cabinet via additional wires in the trailing cable, the module copies the door and cam commands onto the door sides A and B. If the safety light barriers are interrupted, the door movement is stopped and will wait for the according reset signal. If an extension module is used, additional vestibule sensors will be supported before the entry.

SIGNAL LIGHT TRIGGERS

To signal a danger state, various triggers provide a signal light for permitted or non permitted entry to the car or for the positioning of vehicles or loads in the car.

Existing signal light triggers so far:

- Car signal light RED/GREEN (default)
- Car positioning FOWARD/STOP/BACKWARD (default)
- Landing signal light RED/GREEN (default)
- Landing signal light RED/WHITE/GREEN by specification of BMW
- Car signal light RED/YELLOW/GREEN by specification of DAIMLER

Glass and panorama lifts.

PANORAMA DRIVE FUNCTION

When using glass lifts, this function allows a slow drive. If the lift is round, the car can simultaneously rotate around its axis. Examples of use: Burg Rabenstein, Aqua Dom.

LIGHT EFFECTS FUNCTION

Allows light effects to be triggered synchronal by the lift's movement. Especially when using glass or panorama lifts, this function can be used to trigger the shaft lights so they appear to follow the car's movement.



Electrical options.

DESTINATION SELECTION CONTROL

LiftXpress is one of the first microprocessor control systems freely available on the market for elevators with hall call destination system. Short waiting and travel times thanks to optimized call processing are the primary quality criteria for this modern elevator group control system.

Before using an elevator, the user can directly enter the destination storey using the intuitive operating interface of LiftXpress in the form of a touch panel. Thus, the elevator control system receives exact information regarding the entire ride to be planned and the distribution among other group members. A special control algorithm was developed for LiftXpress making sure that the waiting and travel times are minimized for the users as far as possible and that stopovers as well as empty trips are clearly reduced.

The user enters the destination stop at the landing panel. The controller as a result acquires much more information regarding the travels planned, and distributes accordingly throughout the lift group participants.

A touch screen is installed in the lift cabin itself. It shows the current floor, the travel direction and the next floors scheduled.



LIFT PHONE - EN 81/28

Surveillance and lift communication with handling of periodic technical alarms and alarm calls in accordance with EN 81:28.

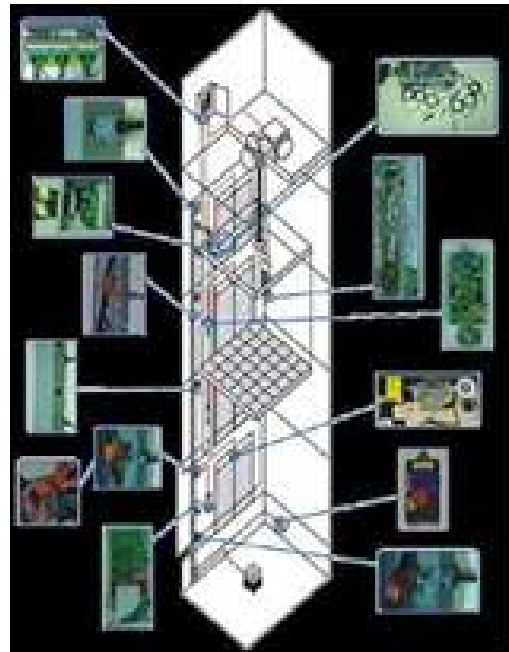
Our solutions for the lift security market fulfil all applicable governing norms (EN 81/28, EN 81/70, EN 81/80), and we are offering a wide set of services to be able to offer custom solutions whenever our customers wishes so. Easy to program

The unit can easily be programmed through a variety of options:

- On site via the built-in key pad
- On site via PC and cable
- From a distance via mobile telephone
- From a distance via the Flex Android app that can be downloaded from Google Play.
- From a distance via PC, software and modem



PREWIRING



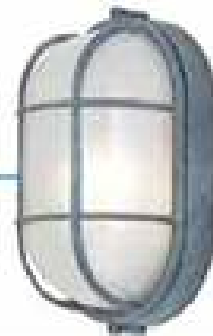
The elevator pre-wired electrical installation of cabin, shaft and machine room, is designed to provide the installers with:

- Ease of installation
- Substantial reduction of installation time
- Reduction of errors during installation
- Minimal requirements for specialised personnel
- Easy verification of the connections and speed in tracing any faults.
- Fully compliance with the 95/16 EC directive

**SUBSTANTIAL
REDUCTION OF
INSTALLATION
TIME**

SHAFT LIGHTING

Standard Bulkheads IP24



Optional Fluorescent Lights



GSM GATEWAY WIRELESS EMERGENCY COMMUNICATION



The GSM Gateway is used to provide a fixed line telephone with wireless communication via the GSM network. The easy set up and high quality makes it suitable for both temporary and permanent installations.

The GSM Gateway simulates a telephone line which makes it compatible with any fixed line emergency lift phones or other telephone devices. It is easy to install for example in the machine room or at any other location which provides the best GSM coverage. Functionality and sound quality is excellent even when using long telephone cables between the GSM Gateway.

The GSM Gateway is especially useful for the following:

- to lower costs (no cost for fixed telephone)
- for temporary communication solutions at construction sites where the telephone line has not yet been installed
- for older installations where the fixed line telephone is being upgraded to wireless communication

AUDIO LOOP AMPLIFIER



The loop amplifier is used in lifts and improves the sound for passengers with impaired hearing. The amplifier is easy to connect on top of the elevator roof.

The loop amplifier is connected to the lift phone and to a inductive loop kit that is installed on top of the elevator cabin.

The Loop amplifier fulfils IEC 60118-4.



INTERCOM UNIT

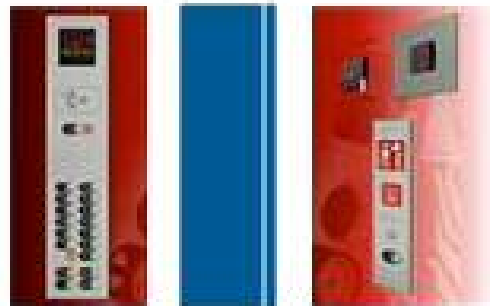


This is a product for internal communication (intercom) between the lift machine room and the lift car as well as communication between a phone in the lift pit and an alarm centre.

When the telephone handset in the machine room is lifted, a call is automatically made to the lift phone in the lift car.

A regular telephone or a Pit Unit can be connected to the connection labelled Pit Unit. Calls between the machine room and lift car can be made.

FIREFIGHTER OPTIONS



EN 81-72 norm requires the installation of additional protection, controls and signals which enable a lift primarily intended for passengers to be used under the direct control of the fire service in case of emergency.

These devices include fixtures provided with enclosures protected against the penetration of water (IPX3 rated), fire-fighter key switches clearly visible and marked with specific pictogram, priority recall feature, communication system between lift car and fire service access level.

For fire-fighters lifts, we recommend its line of components and accessories compliant to requirements of EN 81-72 norm:

- st/steel faceplates with water-tight back box
- Fire service triangular key switch
- Fire service access level pictogram
- Bi-directional communication device between lift car and fire service

FLOOR SECURITY



The MFS is an access control system based on RFID cards. It allows accessing the system if the detected card is defined. It also has a built-in keypad for password control.



The PSI is an access control system that detects the I button and allows only access to the I button that has been defined and cleared for access.

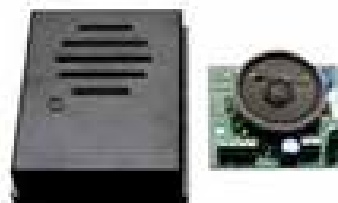
VOICE ANNOUNCER



The new voice announcer is easy and quick to install thanks to its automatic association between floors and messages. Firmware and messages sets can be updated via USB.

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GONG



Warning gong signals the lift arrival at floor.

- 1-2-3 adjustable tones electronic arrival gong.
- Fading out sound.

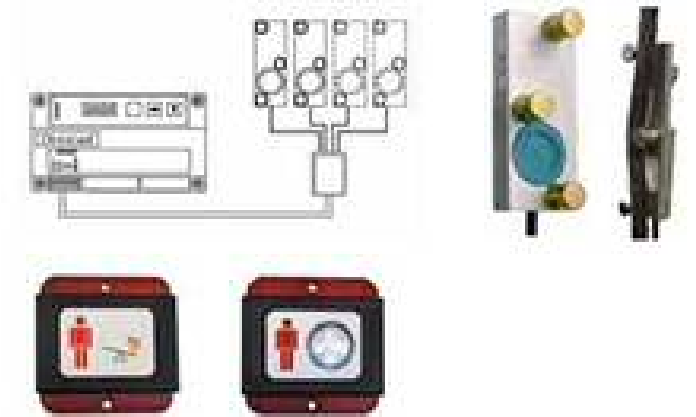
ENCODER UNIT



The new optically read incremental encoder allows a very accurate control of the cabin position and provides the controller reading as accurate as 1.2 mm.

The system works with two easily installable pulleys in vain and a cord attached to the cabin. A magnetic contact, positioned at the lower end of the shaft, provides the reset signal: at every passage the encoder optical information is compared to the magnetic signal to correct any errors.

LOAD WEIGHER



The load weigher sensor has been developed to measure the weight in elevators and freight elevators, as well to control the force in each cable in an independent way.

- It doesn't produce frictions neither displacements along the cable. • A miniaturized design for an easy and fast installation.
- Their placement is suitable whatever the distance of the cables. Ideal to place in those
- Cables with excessive separations.
- It is manufactured in groups from 2 to 8 sensors depending on the number of cables that
- has the elevator where it will be installed and has different diameters (from 7 to 16 mm).

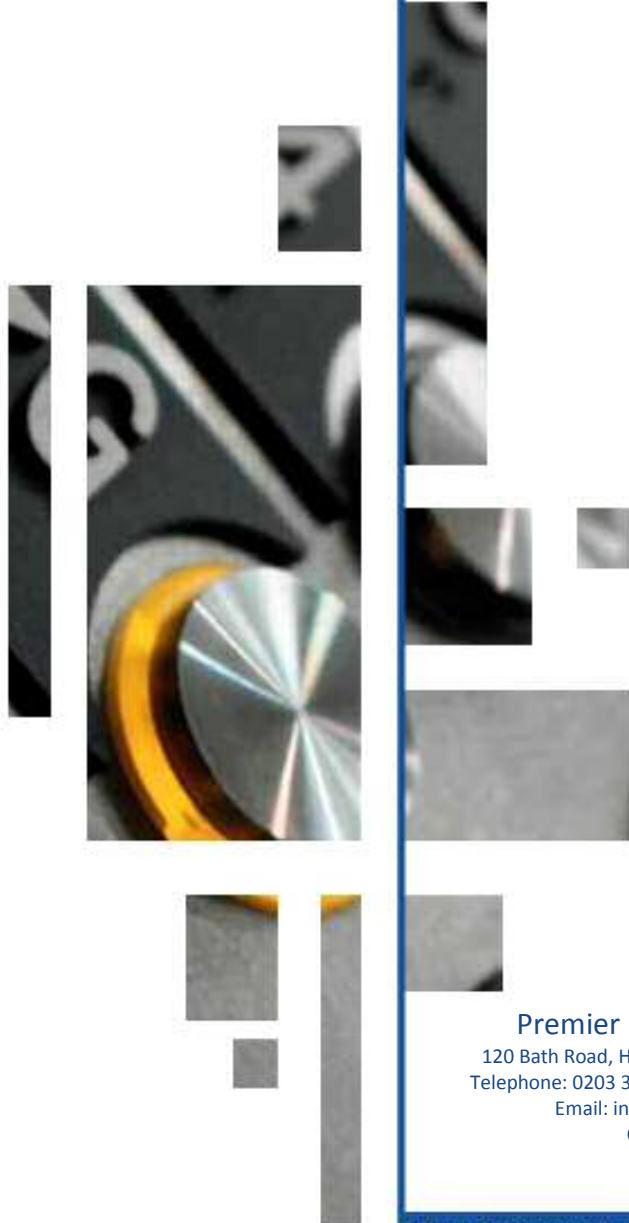
TOP OF CABIN SAFETY

Product that prevent people jumping on to elevator car roofs or from storing goods there. You can't afford to ignore the potentially fatal risk of people breaking into the elevator shaft and joy-riding on the Surfguard. This unique and flexible car top safety system reduces the risk of accidents to unauthorised people.

This is a dual passive infra-red detector system which provides both a horizontal and vertical field of view on the car top area.



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