

Elevator Products

Product Catalogue



(Click page to turn)

We believe in relationships

At Nu-Line we believe that solid relationships are the foundation on which to build great products. We have worked with many international and local organizations. Our products are installed in prestigious developments including international airports, shopping complexes, government buildings, schools, universities, financial banks, military bases, wine estates and luxury homes. Our team is passionate about providing great customer service for our clients. This passion is reflected in our project portfolio.



Nu-Line has been manufacturing and installing elevator products in South Africa since 1990. We guarantee that our products are manufactured from the best quality material with emphasis on workmanship and safety.

All products comply with the SANS / EN81 standards. Nu-Line is a member of the Independent Lift Association of South Africa, which helps regulate the elevator industry.

Maintenance and Service

Nu-Line has a complete service department infrastructure that can offer maintenance on all our products installed throughout South Africa. We look forward to providing you with innovative elevator solutions to best suit your individual needs.



Passenger Elevators

Nu-Line manufactures a full range of passenger elevators across the entire elevator design spectrum including different carrying load, floor size and price range. Custom-made products can incorporate a vast range of interior options, special design themes and architectural features.



Escalators

Smooth, safe, robust, reliable, quiet and energy efficient. Nu-Line offers a comprehensive range of commercial escalators that can be used in retail shopping centres, office buildings, convention centres, passenger transit systems, public service areas and hotels.



Platform Wheelchair Lifts

The wheelchair platform lift greatly enhances the quality of life for those with restricted mobility. The safety features and control panels are designed for people in wheelchairs to use them easily and safely. Indoor and outdoor installations are available with maximum lifting load of 500kg.



Goods Hoists

Smooth running, robust and economical to run. Customised cab design allows for the most economical use of space. Units available to goods only and goods attendant specifications. Custom design criteria allows for lattice, folding and bi-parting doors.



Dumbwaiters

The dumbwaiter is a small version of the goods hoist and can transport loads between 50kg and 300kg. It can be installed in the smallest available space. The dumbwaiter is typically used in restaurants, hospitals and office buildings.



Funiculars

A funicular is the perfect solution to gain access on various external levels on steep terrain. Any angle of incline can be accommodated. Extended glass panels allow more vision during a scenic ride.



Interiors & Accessories

Comprehensive range of finishes, handrails, ceilings, lighting, flooring and operating panels allows for unique opportunity for each and every product to be custom designed according to the client's needs and design preferences.



Passenger Elevators MRL - Gearless

This product option does not require the construction of a motor room. Instead, the motor is mounted to the guide rails in the top of the shaft. The absence of a motor room will save costs related to building works, and will broaden design options.

The permanent magnet gearless motor offers much lower energy consumption; is designed to give users a smooth and defined ride without sudden movements and offers excellent stopping accuracy.

The MRL elevator is primarily designed for commercial use but is suitable for installations in private residences. The gearless elevator incorporates state-of-the-art technology which offers top quality performance under intense use.

A range of optional extras are available to customize each lift system to satisfy project-specific requirements.

All elevators comply with SANS / EN81 standards.



Usage

- transport of passengers

Drive

- traction with counterweight

Capacity

- 450kg to 5000kg

Landing buttons

- micro push buttons

Speed

- 1.0 - 2.5 meters per second

Motor location

- no motor room required
- motor positioned inside shaft

Control

- VVVF - variable voltage variable frequency

Position indicator

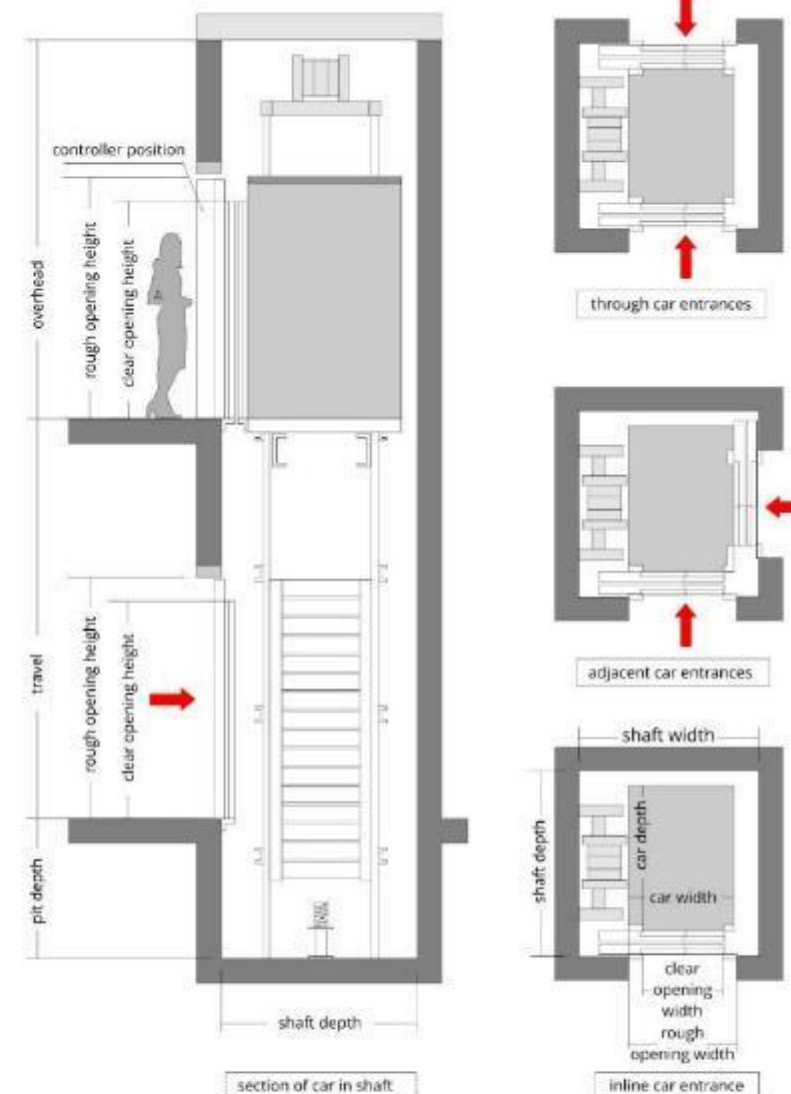
- digital indicator in the car
- digital indicator on landings

Power supply

- 400 volts 3 phase
- 50 Hertz/40 Amps

Optional extras

- customized car interior
- customized car shape
- stainless steel and glass landing doors
- glass car in a glass and steel shaft
- telephone installation
- rescue device (UPS)
- access tags for security
- voice enunciation



load (kg)	persons	car sizes (mm)				shaft sizes (mm)			
		car width	car depth	car height	floor area	shaft width	shaft depth	overhead	pit depth
450	6	1000	1300	2100	1.3	1700	1700	3600	1500
600	8	1100	1400	2100	1.5	1800	1800	3600	1500
1000	13	1100	2100	2100	2.3	2000	2500	3600	1500
1250	17	1400	2100	2100	2.9	2400	2500	4200	1500
1600	21	1400	2400	2100	3.3	2400	3000	4200	1500



Escalators

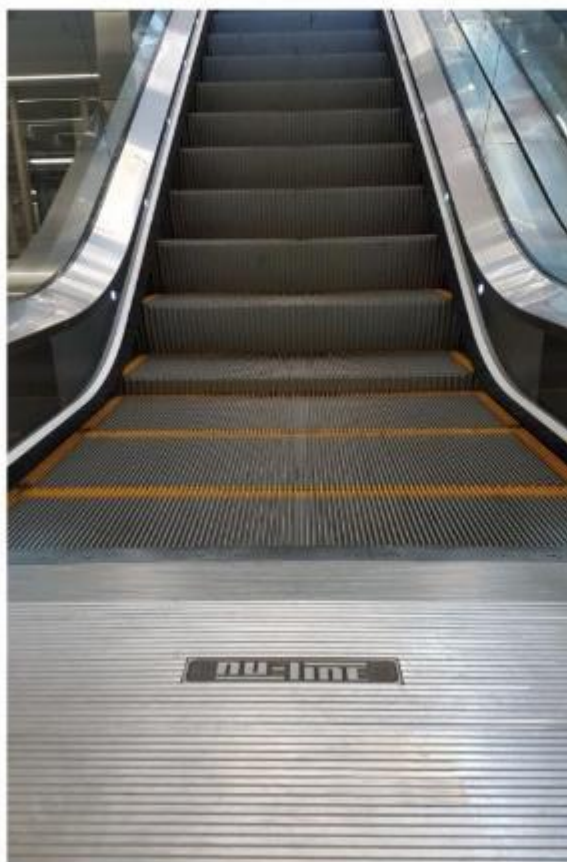
Escalators have the capacity to move large numbers of people quickly between floors of a building, where conventional elevators may not be practical. For example, a single width escalator traveling at 0.5 meters per second between two standard floors in a building can on average transport approximately 2000 people per hour.

Nu-Line offers a complete range of commercial escalators that can be used in retail shopping centres, office buildings, convention centres, passenger transit systems, public service areas and hotels.

Design factors include traffic patterns, building requirements, indoor or outdoor location, aesthetics and safety.

Escalators can help manage and control the flow of crowds by funnelling passengers towards the planned destinations within a building or to the required entrance or exit.

To ensure efficient energy saving, motion sensors activate the escalator to start moving when passengers approach and to slow down and stop if not in use.



Item	Feature	Optional Extra
Balustrade design	Vertical safety glass (10mm safety tempered glass)	Inclined SS
Balustrade profile	Hairline stainless steel	
Handrail	Black	Other colours
Deckings	Hairline stainless steel	
Skirting panel	Hairline stainless steel	
Step	Aluminium alloy die-cast, grey	
Landing plate	Etched stainless steel	Cast aluminium
Operation panel	Red emergency stop button, up-down key switch	



Inclination

- 30° / 35°

Step Width (mm)

- 600 / 800 / 1000

Horizontal step run (mm)

- 800 / 1200 / 1600

Speed (m/s)

- 0.5 / 0.65

Installation

- Indoor
- Outdoor

Control

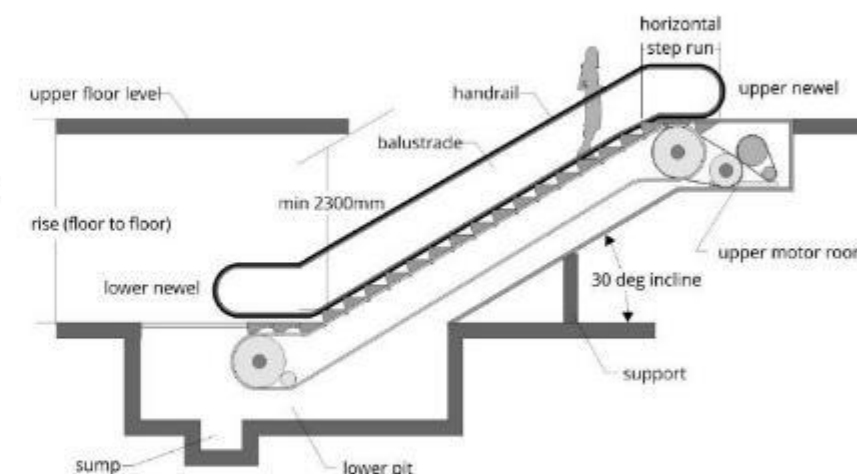
- VVVF - variable voltage variable frequency

Rise (m)

- between 2m and 15m

Power supply

- 400 volts 3 phase
- 50 Hertz



Rise(m)	Inclination	Horizontal Step Run	Upper radius
2 ~ 6 m	30° / 35°	2 steps	1500mm
2 ~ 8 m	30°	3 steps	1500mm
2 ~ 12 m (max. speed 0.65 m/s)	30°	3 / 4 steps	2700mm
2 ~ 15 m (max. speed 0.5 m/s)	30°	3 / 4 steps	2700mm

Standard Features		Standard Features	
Auto-start	✓	Automatic lubrication system	✓
Comb heating system	✓	Alarm buzzer	✓
Comb light	✓	Brake distance monitor	✓
Drive chain contact	✓	Comb contacts	✓
Dry contact for remote monitoring	✓	Emergency stop buttons	✓
Float contact	✓	Fire interface	✓
Handrail broken contact	✓	Fault & status display	✓
Handrail colour	✓	Handrail anti-static roller	✓
Outside cladding	✓	Handrail entry contacts	✓
Skirting brush	✓	Handrail speed monitor	✓
Skirting contacts	✓	Landing plate contact	✓
Step gap illumination	✓	Motor overheat	✓
Skirting lighting	✓	Maintenance interlock protection	✓
Step safety demarcation	✓	Speed monitor and reverse detection	✓
Truss heating system	✓	Step/pallet anti-static brush	✓
Traffic light	✓	Soft stop	✓
VVVF control	✓	Service brake release contact	✓

Wheelchair Platform Lifts

The wheelchair platform lift is specifically designed for people with limited mobility.

This product complies with the SANS1545 - Part 4 regulations which dictate additional safety features for the transportation of a person seated in a wheelchair.

These features include ensuring a slower travel speed of 0.15 meters per second and the use of constant finger pressure to control the operation of the push buttons on the car operating panel and the landing call buttons. Local materials are used for manufacturing which therefore reduces the delivery and installation time.

A small pit and limited overhead space is needed which reduces the building requirements and cost. If no pit can be supplied, a ramp leading to the landing entrance can also be installed.

The motor is positioned onto the guide system inside the shaft so there is no need for a motor room.

The wheelchair platform lift is the ideal travel solution for buildings or homes that have limited space with building obstacles or architectural challenges.



Drive

- cable and drum

Load

- 250kg - 500kg (maximum load)

Door operation

- manual or auto

Motor location

- on top of guide rails

Speed

- 0.15 meters per second

Car floor

- non-slip PVC black transit tiles

Car body

- stainless steel frame
- glass/brushed stainless panels

Power supply

- 230 Volts 1 phase 50 Hertz
- 20 Amps

Control

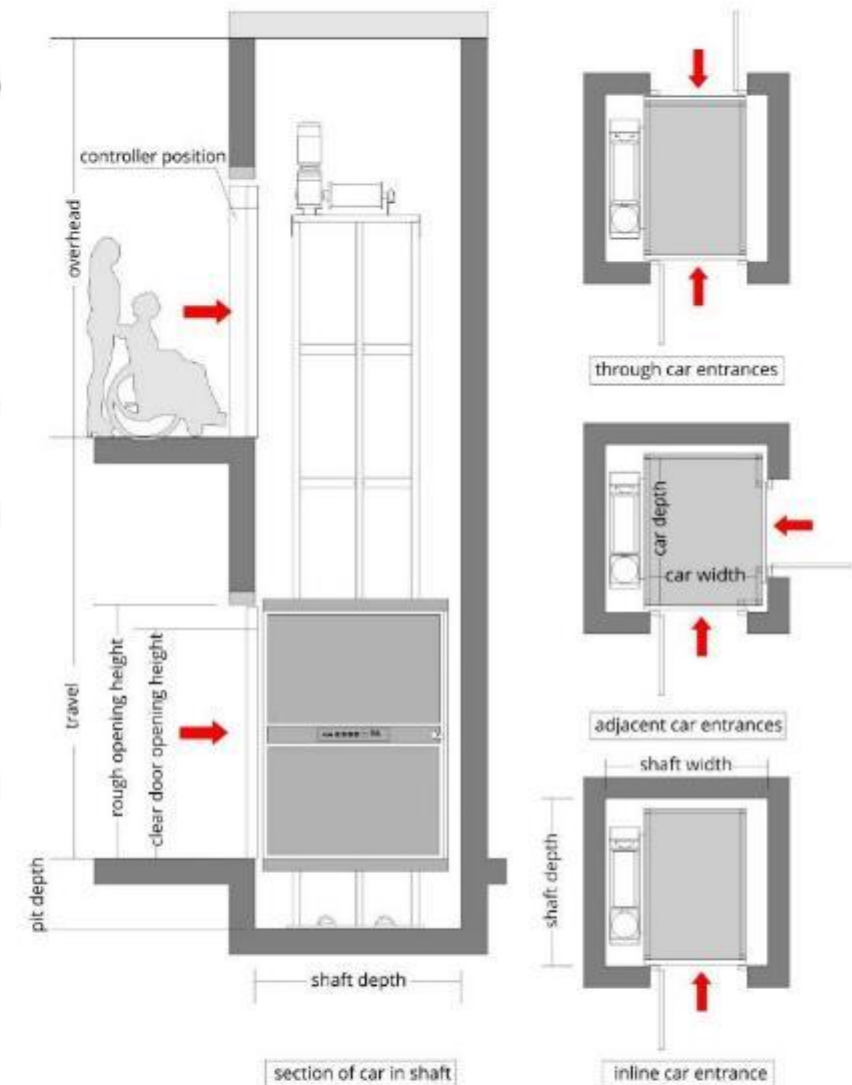
- relay logic
- requires constant pressure on push button in car
- no cab doors (entrance safety scanners)

Handrail

- brushed stainless
- 900mm from car floor level

Optional extras

- customized car interior
- automatic doors
- telephone installation
- outdoor installations
- half height open car



load (kg)	persons	car sizes (mm)			shaft sizes (mm)			
		car width	car depth	car height	shaft width	shaft depth	overhead	pit depth
250	one person in wheelchair or 3 persons	800	1250	2100	1300	1500	2400	300
300	one person in wheelchair + 1 attendant or 4 persons	900	1400	2100	1400	1600	2400	300
325	one person in wheelchair + 1 attendant or 4 persons (public access)	1100	1400	2100	1600	1600	2400	400
350	one person in wheelchair + 1 attendant or 4 persons (public access)	1400	1400	2100	1900	1600	2400	400



Goods Hoists

The goods hoist is a robust product designed to accommodate heavy loads (up to 5000kg) within an industrial or warehouse environment. Car lifts are included in this category.

The standard range consists of a heavy duty steel platform, galvanized mild steel cab enclosure with fluorescent lighting and manual horizontal folding doors.

As with all our products, the design can be custom made to comply with client requirements.

Variations of the goods hoist range include goods only, goods with attendant and goods with passengers hoists.

All materials and components for the standard goods hoist product are locally sourced, which allows for a rapid delivery and response time.

All units comply with SANS / EN81 standards.



Usage

- goods only/attendant/passenger

Drive

- cable and drum

Load

- 500kg to 2500kg or more

Speed

- 0.1 to 1 meter per second

Motor location

- inside shaft or adjacent to shaft

Control

- VVVF - variable voltage, variable frequency

Power supply

- 400 Volts 3 phase 50 Hertz

Car position indicator

- in use light and arrival buzzer

Landing buttons

- micro push buttons

Landing frames

- galvanized mild steel
- stainless steel

Landing door

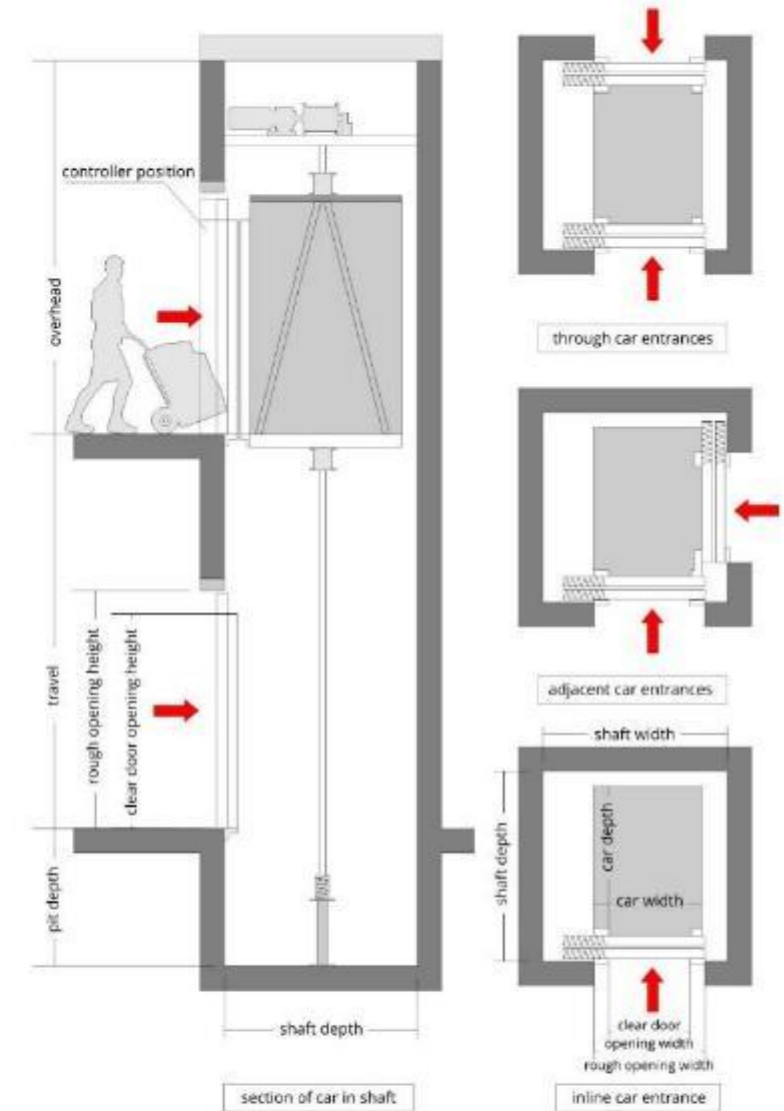
- manual easy fold in mild steel

Car door

- manual collapsible picket-gate

Door type variations

- vertical bi-parting
- easy fold
- fully automatic



load (kg)	car sizes (mm)				shaft sizes (mm)			
	car width	car depth	car height	floor area	shaft width	shaft depth	overhead	pit depth
500	1000	1000	2000	1	1500	1500	3800	1200
1000	1500	1500	2000	2.2	2000	1900	3800	1200
1500	1500	1800	2000	2.7	2000	2200	3800	1200
2000	1800	1800	2000	3.2	2300	2200	3800	1200
2500	1800	2700	2000	4.8	2300	3100	4000	1200

loads above 2500kg vary in shape and size depending on application



Dumbwaiters

The dumbwaiter is designed to transport goods only and is suitable to carry light loads ranging from 50 kg to 300kg.

The dumbwaiter is typically installed in private residences, restaurants, hotels, hospitals and commercial offices.

The dumbwaiter is versatile and can transport items such as shopping bags, food, kitchenware and office supplies.

The standard product is manufactured from stainless steel which does not stain or corrode and therefore complies with all hygiene requirements. As the material and components for dumbwaiters are sourced locally, a short manufacture period can be offered.

Car arrival can also be in line with floor level instead of counter height level. Swing doors on the landing can also be an alternative option.

Our dumbwaiters comply with the standard SANS / EN81 standards.



Usage

- transport of goods only

Drive

- cable and drum

Capacity

- 50kg to 300kg

Speed

- 0.25 meters per second

Motor location

- inside top of shaft

Control

- VVVF - variable voltage, variable frequency

Power supply

- 400 Volts 3 phase 50 Hertz
- 220 Volts 1 phase 50 Hertz

Landing buttons

- micro push buttons

Landing frames

- stainless steel

Landing door

- vertical bi-parting stainless steel

Car and landing door operation

- manual

Car walls

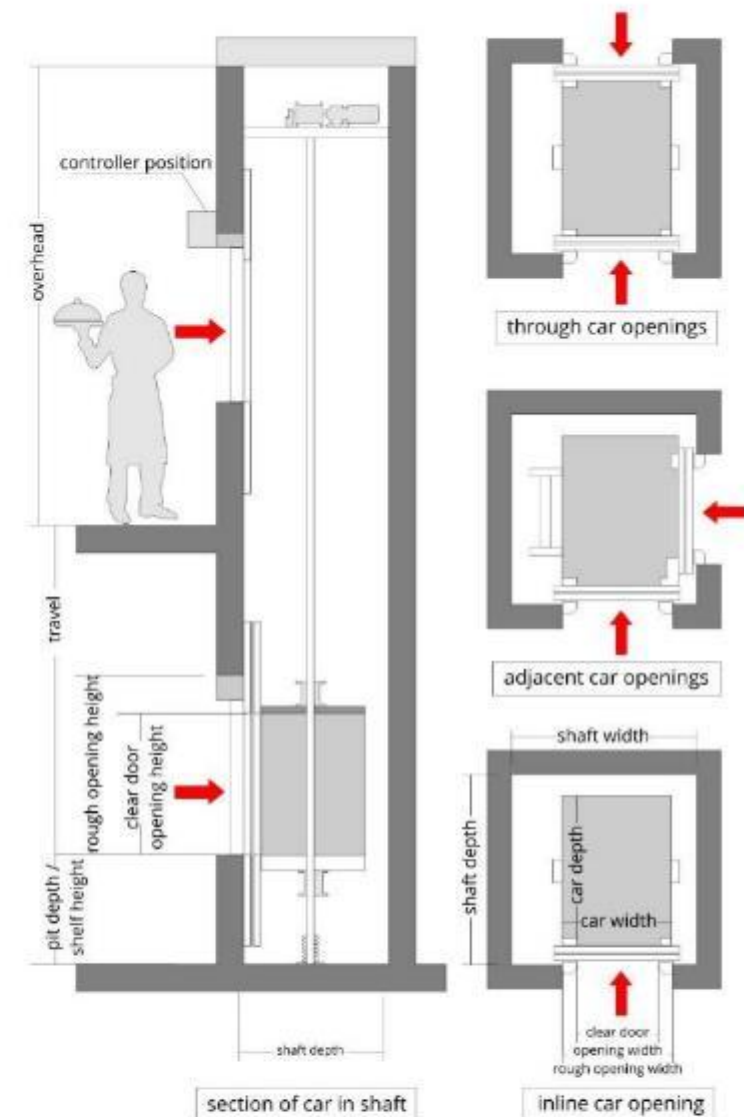
- stainless steel

Car position indicator

- in-use light and arrival buzzer

Shaft

- mild steel
- excludes cladding



load (kg)	car sizes (mm)				shaft sizes (mm)			
	car width	car depth	car height	floor area	shaft width	shaft depth	overhead	pit depth (max shaft entrance)
50	600	600	600	0.36	1000	1000	2900	750
100	800	800	800	0.64	1200	1100	3100	750
150	1000	1000	1000	1	1400	1300	3400	750
250*	1000	1000	1200	1.2	1400	1300	3600	750

* maximum permissible physical size for dumbwaiter

Funiculars

Funiculars are also commonly referred to as an incline elevator. This product finds application in cases where standard vertical travel is not possible.

It allows for easy travel on steep slopes and along mountain terrain. Any angle of incline can be accommodated.

The standard funicular car is manufactured from high grade marine stainless steel to prevent weather damage and corrosion. Extended glass panels are installed in the car walls allowing passengers to see more during a scenic ride.

As part of the safety operation, the entire track area must be fenced off or enclosed with a brick wall.

Concrete support pillars are installed at 2500mm intervals to support the track.

As an optional extra, fold down seats can also be installed inside the car.



Usage

- passenger and goods

Drive

- cable and drum

Capacity

- 300kg to 450kg

Speed

- 0.3 meters per second

Control

- VVVF - variable voltage, variable frequency

Car walls

- stainless steel frame
- stainless & glass vision panels

Car flooring

- black PVC transit tiles

Power supply

- 400 Volts 3 phase 50 Hertz

Pit depth

- according to angle of elevation

Landing buttons

- industrial type for external use

Car door

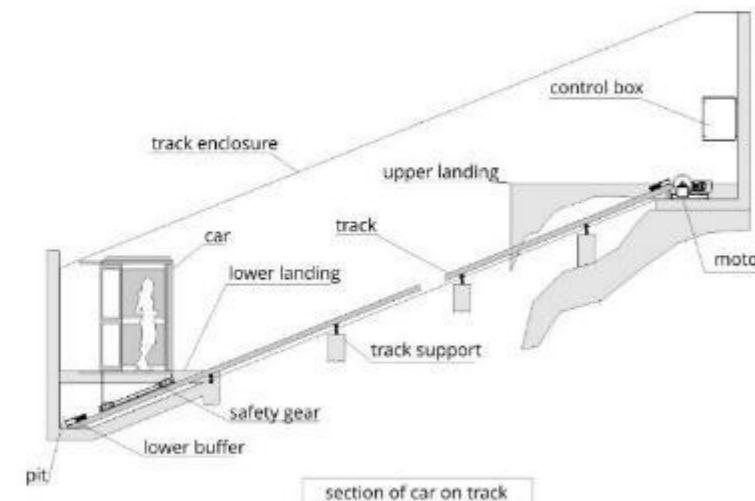
- manual sliding door

Track

- hot dipped galvanized mild steel

Shaft enclosure & landing doors

- client to supply imperforate fence or wall along the full length of the funicular track and landing doors at each entrance





Ceilings



NP-SC 01

Hairline stainless steel frame.
Rear lit perspex inlay (optional colours). Halo perimeter LED strip lighting.



NP-SC 02

Hairline stainless steel frame.
Solid perspex inlay (optional colours). Halo perimeter LED strip lighting. LED down lights.



NP-SC 03

Hairline stainless steel frame.
Solid perspex inlay (optional colours). Halo perimeter LED strip lighting. LED downlights in frame.



NP-SC 04

Hairline stainless steel frame.
Solid perspex inlay (optional colours). Rear lit decorative cut outs in frame. Halo perimeter LED strip lighting.



NP-SC 05

Hairline stainless steel frame.
Rear lit decorative cut out perspex or brushed stainless inlay (various designs). Halo perimeter LED strip lighting.

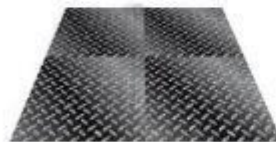


Flooring



NP-FF 01

Standard high traffic transit rubber flooring.



NP-FF 02

Aluminium/stainless steel chequered plate.



NP-FF 03

High traffic woodgrain vinyl flooring.

Client can install own customised to match decor

Push Buttons and Directional Arrows

All push buttons include features such as:

- rear lit buttons
- tactile buttons
- braille
- emergency exit shrouds for visually impaired
- a varied selection of directional arrows are available



Operating Panels and Designation Control Systems

- All standard control panels are manufactured from brushed stainless steel.
- All panels are custom designed according to project specifications and SANS regulations.
- When designing landing layouts, heights of landing operating panels need to be taken into consideration to allow for wheelchair access.
- Designation control systems available for high volume traffic in commercial buildings.



Finishes



Brushed Stainless Steel



ColourTex ® Satin ElectroG



ColourTex ® Checks



ColourTex ® Mirror Gold



ColourTex ® Electro RosyG



ColourTex ® Electro Bronze

Nu-Line elevator cabins can be custom-made from a wide variety of materials, allowing clients to create a unique design that can combine both style and functionality.

The interior of a standard elevator cabin consists of stainless steel walls, a flat bar stainless steel handrail on the back wall, a silver mirror above the handrail, black transit PVC tiles on the floor, a suspended stainless steel with perspex ceiling and a standard car operating panel.

The design choice of the interior also effects the carrying load of the car so our design team will advise clients on the use of heavier products like marbled floor or stone tiled cabin walls.

Air ventilation throughout the car is vital so all ceiling designs must be suspended from the cabin roof. This allows airflow between the vents in the cabin roof and the vents on the cabin floor.

Guidelines to the quality and approved elevator interiors are also listed in the SANS standards.



Handrails



NP-H 01

38Ø round brushed stainless steel. Mounted on 4mm stainless steel brackets.



NP-H 02

38Ø round brushed stainless steel. Curved end-caps with hidden fixings.



NP-H 03

Dual 38Ø round brushed stainless steel bars mounted on 4mm stainless feet.



NP-H 04

Flat bar type handrail. 10mm x 50mm flat brushed stainless steel. Foot mounted.



Configurations



NP-C 01

features:

- brushed stainless panels
- half height mirror on rear wall
- hand rails all round (H 01)
- transit floor tiles (FF 01)
- suspended ceiling (SC 01)



NP-C 02

features:

- white formica panels
- half height mirror on rear wall
- hand rails all round (H 01)
- transit floor tiles (FF 01)
- suspended ceiling (SC 01)



NP-C 03

features:

- veneered panels
- no mirrors
- hand rails all round (H 01)
- transit floor tiles (FF 01)
- suspended ceiling (SC 03)



NP-C 04

features:

- Colourtex checks panels
- half height mirror on rear wall
- hand rails all round (H 01)
- transit floor tiles (FF 01)
- suspended ceiling (SC 01)

Energy Saving

Permanent Magnetic Power

Using rare earth materials combined with transmission technology and digital VF technology, the running costs and dissipation are low. Up to 33% energy savings are achieved on running costs of the elevator.

Regeneration System

As an optional function, the regenerate system can be installed to convert braking energy into electrical energy that can be supplied to other electrical equipment within the building.

LED Automatic Lighting

LED lighting provides a low cost, long life alternative to conventional lighting. LED technology provides low heat and no radiation. All LED lighting is automatically controlled when elevator is not in use.

Selecting the right elevator

Choice: Choosing the right elevator is an important task. A building traffic study will assist in choosing the correct elevator car size, loading capacity, speed and additional operational features.

Installation: It may be necessary to make alternations and modifications to your existing building, so proper pre-planning will assist with easy and efficient installation of the elevator equipment.

Maintenance: Once installed, all elevator products are legally required to be serviced on a regular basis to ensure safety and uninterrupted service. Nu-Line has a dedicated service team that offers preventative maintenance contracts and a 24-hour emergency call out service.

Performance: Customers want an elevator product that offers a safe and comfortable ride, that is durable and hassle-free. Nu-Line can assist you in choosing the elevator that meets your requirements, design and budget.

Absolute safety

All Nu-Line products are strictly manufactured and installed in accordance with the SANS / EN81 standards.

After each installation the product is inspected by a government-approved lift inspector who will certify that the product has complied with all required safety standards and is ready for public use.

Even though we can custom make any shape or design of elevator, the final product must still comply with the SANS/EN81 standards.

Likewise, with maintenance, Because the elevator transports passengers, the elevator must be serviced monthly and all safety features must be checked and regularly maintained.

Glossary

Travel

Distance from the finished floor level of the lowest floor to the finished floor level of the highest floor.

Overhead

Distance from the uppermost finished floor level on the top landing to the underside of the lowest point inside the shaft roof.

Pit

The distance from the shaft floor to the finished floor level of the first floor landing entrance.

Client Responsibilities

Client responsibilities includes supplying an imperforate shaft as indicated in the detailed project layout drawing that will be supplied by Nu-line.

Shaft will be constructed of double solid clay brick or concrete.

Shaft to be plumb to within 10mm variance from the top of the shaft to the bottom of the shaft.

To supply ventilation panels at the top of the shaft to the extent of 1% of the cross sectional area of the shaft.

The pit must be dry and free of water leakages and to supply a sump and pump if required.

To supply certified lifting hooks at the top of the shaft in accordance with specifications laid out by our engineers.

To install permanent electrical supply as per the specifications supplied by our engineers.

To supply datum lines on each entrance indicating FFL (finished floor level).

To ensure that all shafts, landings, lobbies and entrances comply with the National Building Regulations.

To supply adequate access to the site to allow offloading of equipment and to allow adequate dry and secure storage of equipment for the duration of the installation.

Supply sufficient lighting at the entrance to each elevator landing.

Supply a cut-out in the finished floor level to enable fitting of the landing entrances.

To supply and erect certified scaffolding inside the shaft for the duration of the installation.

To enclose landing frames once they have been installed.

Nu-Line sales, design and installation teams are on hand to assist with any further detailed explanations regarding the client responsibilities.

Rough opening door dimensions

The size of the hole needed in the shaft wall in order to fit the elevator landing door frames

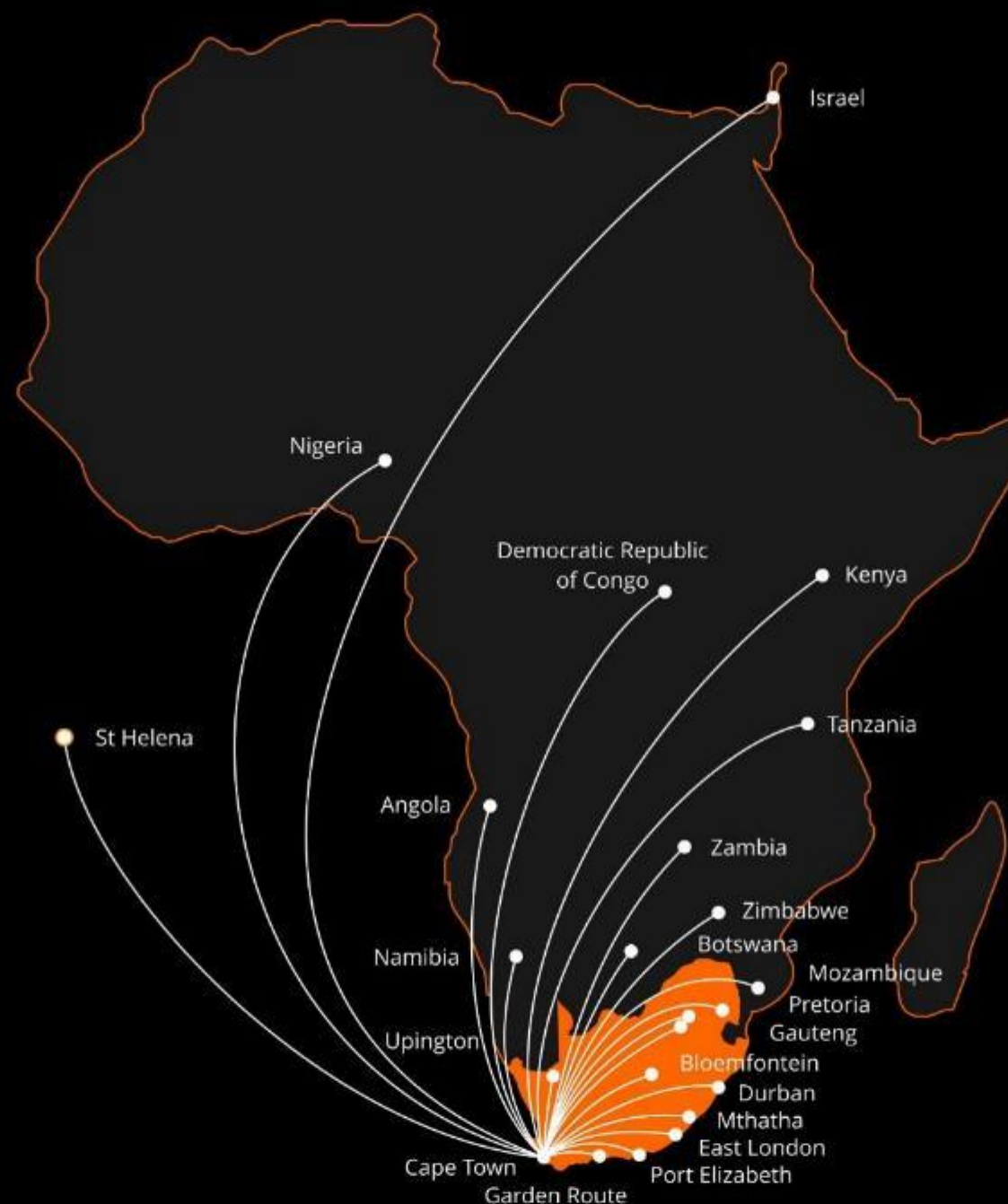
Clear door opening

The dimensions of the door opening once we have fitted our doors and frame.

FFL - (finished floor level)

Top of finished floor level.





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