



ML Goods-Passenger Lift

Passenger & Goods-Passenger Lifts For Problem Sites

Shorts' ML range is a family of hydraulic passenger and goods-passenger lifts suitable for buildings with lift shafts that have reduced refuge spaces. Using a combination of a unique sling design together with additional headroom and pit safety devices, the ML range provides UK and Irish Lift Companies with a high quality solution to an increasingly common regulatory problem.

There are eight ML Lifts, with capacities from 225kg to 1600kg, which can be installed in shafts with pits as shallow as 150mm and headrooms as low as 2500mm. They are designed to comply with either the Lifts Directive, for applications in existing buildings, or the Machinery Directive, for application in new or existing buildings.



150mm Pit Depth

Standard Specifications

Capacity: 225kg | 320kg | 480kg | 630kg | 825kg | 1000kg | 1250kg | 1600kg

Minimum Pit Depth: 150mm

Minimum Headroom: 2500mm

Maximum Travel: 21m

Nominal Speed: 0.63m/s (Lifts Directive) | 0.15m/s (Machinery Directive)

Drive: Indirect Hydraulic Drive

The Shorts ML Lifts Directive lifts are manufactured to comply with the EC Standard EN81-20 and the supplementary standard EN81-21, which allows a lift to be installed in an existing building with shallow pit and low headroom. These lifts cannot be installed in new buildings unless the building owner obtains derogation from the UK Government Department for Business, Energy and Industrial Strategy (BEIS).

The UK Certified Shorts ML Machinery Directive lifts are the same lifts but operating at reduced speed, which means that they can be installed in any building (new or existing) without the need for derogation from BEIS.



Shorts are a supplier of new lift solutions, modernisation components and multi-brand lift spare parts to the UK and Irish Lift Industries. Additional new lifts trade support services include site surveys, GA production, installation and testing. For more information on all our Trade Support Services please visit our website.



Standard Lift Car Specifications - Passenger Lifts

	Capacity kg	Door Width Max mm	Lift Car Maximum Dimensions		
			Width mm	Depth mm	Height mm
Shorts ML1	225	700	800	850	2100
Shorts ML2	320	800	900	1000	2100
Shorts ML3	480	900	1100	1100	2100
Shorts ML4	630	900	1100	1400	2100
Shorts ML5	825	1100	1400	1400	2100
Shorts ML6	1000	900	1100	2100	2100
Shorts ML7	1250	1000	1200	2400	2100
Shorts ML8	1600	1300	1400	2400	2100



Maximum Passenger Lift Car Dimensions based on Table 6 in EN81-20:2014. For Goods-Passenger Lifts maximum dimensions based on Table 7 will apply.

Standard Lift Shaft Requirements - Passenger Lifts

	Single Entrance		Double Entrance Car (Through)		Double Entrance Car (Adjacent)		Triple Entrance Car	
	Width mm	Depth mm	Width mm	Depth mm	Width mm	Depth mm	Width mm	Depth mm
Shorts ML1	1300	1150	1300	1210	1380	1330	1400	1250
Shorts ML2	1400	1310	1400	1420	1480	1330	1500	1400
Shorts ML3	1600	1410	1600	1520	1880	1430	1700	1500
Shorts ML4	1600	1710	1600	1820	1880	1730	1700	1800
Shorts ML5	1900	1750	1900	1850	1950	1730	2000	1800
Shorts ML6	1615	2450	1615	2550	1685	2430	1715	2500
Shorts ML7	1730	2750	1730	2850	1810	2730	1830	2800
Shorts ML8	2130	2750	2130	2850	2210	2730	2210	2800

Dimensions based on Standard Passenger Lift Car specifications, guides to the side and side opening telescopic entrances with semi-cantilevered fixing.

Configuration Options

- Conventional Machine Room or Machine Room Less (MRL) models
- Front only, through entry, adjacent entry (or any combination) car
- Guides to side or rear of shaft
- Side or centre opening VVVF doors
- Lift structure

Car & Door Finish Options

- Laminate wall panels in RAL Colours or Stainless Steel (various finishes)
- Steel Car & Landing Doors in RAL Colours or Stainless Steel (various finishes)
- EN81-58 option available on landing doors

Additional Safety Devices

Shallow Pit Safety Operation

When the lowest landing entrance is opened by the service key, the lift is automatically isolated and a warning indicator is triggered. When an interlocked pit safety prop is put into place by the lift engineer, the lift safety circuits are opened, the indicator switched off and the lift operation is disabled.

With the pit prop in position, the space between the bottom of the lift car and the bottom of the pit complies with that required by EN81-20. On exiting the pit, the safety prop must be returned to its normal position and the lift must be reset for normal operation by a reset switch inside the control cabinet.

Low Headroom Safety Operation

When any entrance (other than the lowest) is opened by the service key, the lift is automatically isolated and a warning indicator is triggered. When an interlocked headroom safety prop is put into place by the lift engineer, the lift safety circuits are opened, the indicator switched off and the lift allowed to operate in inspection mode.

With the headroom safety prop in position, the space between the top of the lift car and the lowest point of the ceiling of the lift shaft complies with that required by EN81-20. On exiting the car top, the safety prop must be returned to its normal position and the lift must be reset for normal operation by a reset switch inside the control cabinet.



Under Shorts' policy of continuing development, we reserve the right to alter the specification of any equipment illustrated without prior notice.



Contact Shorts

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