EN 81-20
EN 81-50

MOVING FORWARD & MOVING ON

ascensores
ZENER
GRUPO ARMONIZA

diseño+modernidad
design+modernity

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residenciales residential

EN81-20 / EN81-50

Nuestra gama de ascensores para el sector residencial se integra en la dinmica de vida y necesidades de los edificios actuales, tanto en eficiencia y sostenibilidad como en esttica y amplitud de cabinas. Con un desplazamiento silencioso y seguro, la funcionalidad est asegurada.

Our range of elevators for the residential sector integrate into the dynamics of life and needs of present-day buildings, both in terms of efficiency and sustainability as well as aesthetics and car room. Functionality is assured thanks to a quiet and safe movement.

La vida moderna se mueve, nuestros ascensores también.

Modern life is moving on and so are our elevators.

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confort+rendimiento
comfort+performance

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comerciales commercial

EN81-20 / EN81-50

Ascensores para cumplir con las exigencias del sector comercial, como son movilidad y trfic o de pasajeros, rendimiento y eficiencia energtica, funcionamiento silencioso, y adaptabilidad de interiores de cabinas, integrando inoxidables y cristal en perfecto equilibrio con las estticas actuales de estos edificios.

Elevators to meet the demands of the commercial sector, such as mobility and passenger traffic, performance and energy efficiency, quiet operation, and adaptability of car interiors, incorporating stainless steel and glass in perfect balance with the current aesthetics of these buildings.

Los negocios y los edificios comerciales no paran, nuestros ascensores tampoco.

Businesses and commercial buildings never stop and neither do our elevators.

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capacidad+experiencia
capacity+experience

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industriales industrial lifts

EN81-20 / EN81-50

Especialmente diseados para edificios industriales, fbricas, almacenes y depsitos de materiales, donde se necesita movimiento de mercancas y grandes cargas. Tambin para movimiento vertical de vehculos. Flexibles, versatiles, robustos y duraderos. Cabinas dotadas de protecciones, adaptadas a medida en dimensiones y acabados al lugar destinado para su uso.

Specially designed for industrial buildings, factories, warehouses and stores of materials, where goods and heavy loads need to be moved. Also to move vehicles vertically. Flexible, versatile, robust and durable. Cars equipped with protection, tailored to the dimensions and finishes of the place they are intended for.

Si hay mercancías para mover, nuestros ascensores las mueven.

Whenever there are goods to be moved, our elevators move them.

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perfección+seguridad
perfection+safety

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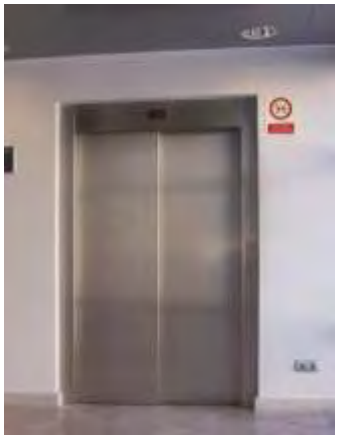
accesibles accessible

EN81-20 / EN81-50



Pensados para cubrir las necesidades de movimiento de personas discapacitadas o con movilidad reducida, as como pacientes en hospital es, residencias, clnicas y edificios. En estos c asos la fiabilidad y seguridad es lo ms important e. Precisos, eficientes, confortables y prcticos.

Designed to meet the mobility needs of disabled people or those with reduced mobility, as well as patients in hospitals, nursing homes, clinics and buildings. In these cases reliability and safety are paramount. Accurate, efficient, comfortable and practical.

Ante necesidades de accesibilidad, nuestros ascensores rompen las barreras.

Whenever we are faced with accessibility needs, our elevators break down barriers.

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adaptación+espacio
adaptability+space

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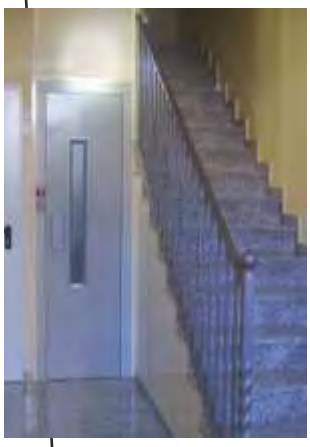
rehabilitaciones, modernizaciones, edificios sin ascensor rehabilitation, modernization, buildings without elevators

EN81-20 / EN81-50



Soluciones flexibles y que se adaptan a cualquier edificio y espacio. Optimizamos los espacios por muy reducidos que sean. Dotados con los sistemas ms modernos de eficiencia energtica, mejoran y optimizan la vida en l os edificios que no disponen de ascensor. Tambin pensados para sustituir instalaciones antiguas para mejorar la seguridad y adaptarlos a las nuevas normativas.

Flexible solutions that adapt to any building or space. We optimize space, no matter how small. Equipped with state-of-the-art energy efficiency systems, they improve and optimize life in buildings without elevators. They are also intended to replace aging facilities in order to improve safety and adapt to new regulations.

¿No disponen de ascensor?, nosotros le proporcionamos uno.

Don't you have an elevator? We provide one.

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creatividad+perfección
creativity+perfection

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personalizados custom-built

EN81-20 / EN81-50

Hay edificios singulares donde la exclusividad es necesaria. Nuestros ascensores personalizados se disean para cubrir estas necesidades. Plasmando y adaptando la creatividad y diseos de los arquitectos y diseadores. Integracin, personalizacin, perfeccin y adaptacin.

There are special buildings where exclusivity is necessary. Our elevators are custom designed to meet these needs. Translating and adapting the creativity and designs by architects and designers. Integration, customization, perfection and adaptation.

Usted proponga, nosotros lo creamos.

You propose, we create.

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visión+futuro
vision+future

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panorámicos scenic

EN81-20 / EN81-50

Ascensores destinados para edificios donde la luminosidad, transparencia y visin son importantes. Cabinas exclusivas, redondas, cuadradas, de interior, de exterior, con puertas de cristal... Con nuestros ascensores panormic os la sensacin de libert ad est asegurada.

Elevators intended for buildings where brightness, transparency and vision are important. The cars are unique, round, square, interior, exterior, with glass doors. Freedom is assured with our scenic elevators.

Entre en nuestros ascensores panorámicos, mire y respire.

Step inside our elevators, look and breathe in.

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solidez+adaptabilidad
solidity+adaptability

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estructuras structures

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Estructuras autoportantes pensadas para solucionar la instalacin de ascensores en lugar es donde no existe hueco con paredes resistentes, o se anexan exteriormente a los edificios. Resistentes y slidas, pero adaptables en esttic a. De chapa, de colores, de inoxidable, de cristal.

Free-standing structures designed to find a solution for the installation of elevators in places where there are no strong walled shafts, or they are to be attached externally to the buildings. Resistant and robust, but aesthetically adaptable. Sheet, colors, stainless steel, glass.

No tiene hueco para su ascensor, nosotros le proporcionamos uno.

If you have no shaft for your elevator, we provide one.

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EN 81-20
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especificaciones técnicas technical specifications

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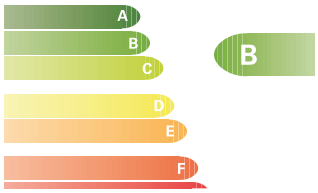
Zener Greening concept

Confort, seguridad, eficiencia y sostenibilidad son el punto de partida para la concepcin y diseo de todos los productos y soluciones de transporte vertical de ZENER.

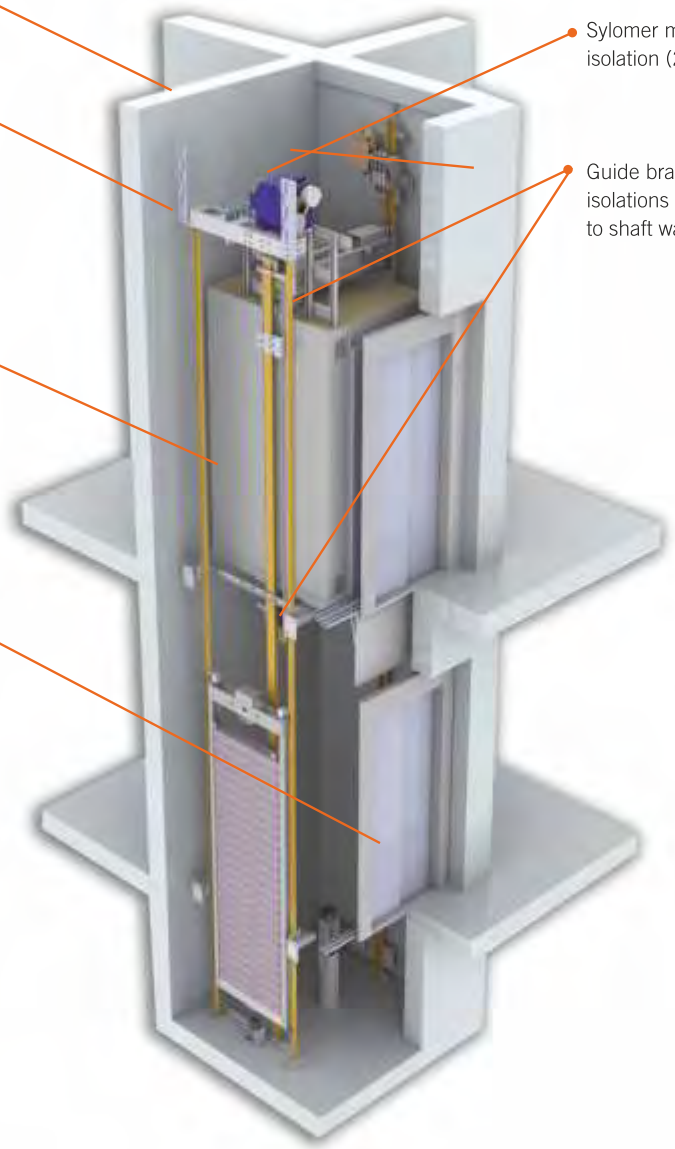
ZENER utiliza de manera regular materiales y componentes de m xima calidad, que son empleados en instalaciones que han alcanzado clasificaciones energticas dentro del "rango verde" de la Norma VDI 4707 (Clase "A", "B" y "C").

Comfort, safety, efficiency and sustainability are the starting point for the conception and design of all products and vertical transportation solutions from ZENER.

ZENER regularly uses top quality materials and components, which are used in facilities that have achieved energy ratings within the "green range" of Standard VDI 4707 (Class "A", "B" and "C").



mapa sonoro noise mapping



Adjacent rooms (1)
LpA MAX =30 dB(A) (maximum)

Shaft
- Average value
LpA EQ = 58 dB(A)
- Impulsive noise
LpA MAX =64 dB(A)
Closing/opening time contactors < 0,25ms

Cabine interior(2)
- Average value
LpA EQ =53 dB(A)
- Maximum value
LpA MAX = 57dB(A)

Landing
- Doors opening/closing noise
LpA MAX = 57dB(A)
- Cabine moving noise.
LpA MAX = 49dB(A)
- Top floor impulsive noise
LpA MAX = 55dB(A)
Closing/opening time contactors < 0,25ms

Sylomer machine isolation (2)

Guide brackets with isolations to shaft walls (2)

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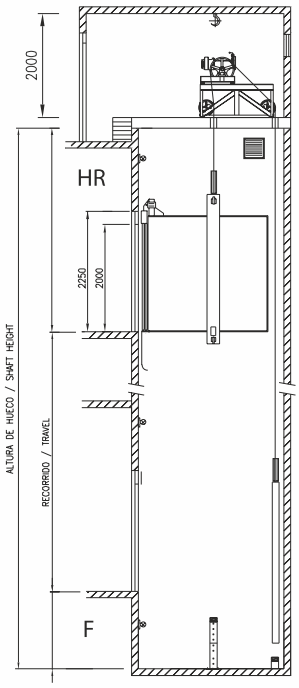
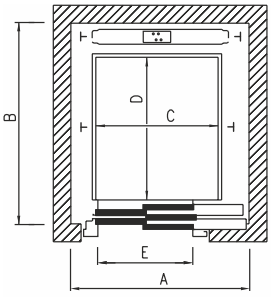
ascensores eléctricoselectric lifts

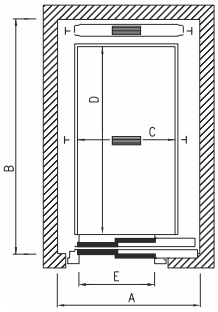
con cuarto de máquinas with machine room

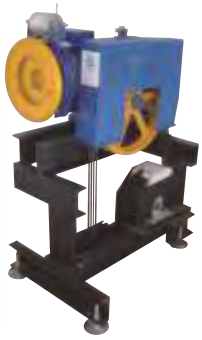
1 acceso 1 access



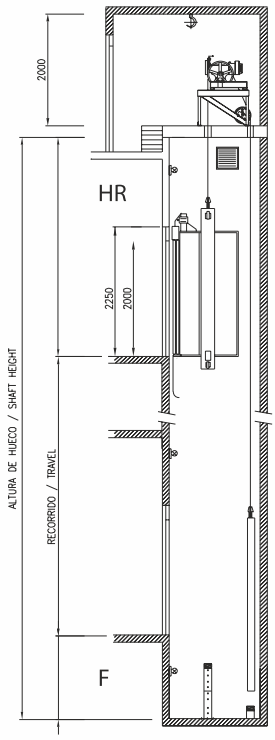
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
300	1300x1550	1:1	900x1040	700	1	9	4,5	3400	3500	700	1050
450	1450x1750		1000x1250	800		10	5,5	3400	3500	700	1050
630	1600x1900		1100x1400			13	8	3400	3500	700	1050
750	1700x2200		1100x1600	900		16	10	3800	3900	700	1100
900	1700x2500		1100x1900			21	12,5	3800	3900	700	1100
1000	1700x2700		1100x2100			23	13,5	3800	3900	700	1100
1125	1850x2700	2:1	1200x2100	1000		21	12,5	3800	3900	1100	1200
1250	1900x2700		1300x2100			24	14	3800	3900	1100	1200
1350	1900x2800		1300x2200			24	14,5	3800	3900	1100	1200
1500	1950x2900		1400x2300			26	16	3800	3900	1100	1200



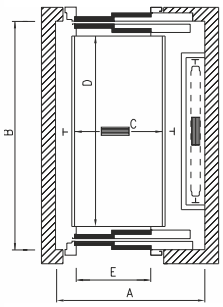


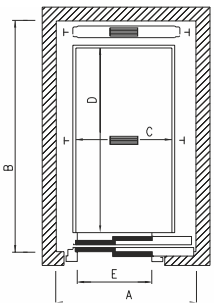


2 accesos 180º 2 access 180º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
300	1400x1550	1:1	900x1040	700	1	9	4,5	3400	3500	700	1050
450	1650x1700		1000x1250	800		10	5,5	3400	3500	700	1050
630	1850x1850		1100x1400			13	8	3400	3500	700	1050
750	1900x2050		1100x1600	900		16	10	3800	3900	700	1100
900	1900x2300		1100x1850			21	12,5	3800	3900	700	1100
1000	1900x2500		1100x2050			23	13,5	3800	3900	700	1100
1125	2100x2600	2:1	1200x2100	1000							
1250	2200x2600		1300x2100			21	12,5	3800	3900	1100	1200
1350	2200x2700		1300x2200			24	14	3800	3900	1100	1200
1500	2300x2800		1400x2300			24	14,5	3800	3900	1100	1200





Gearless option

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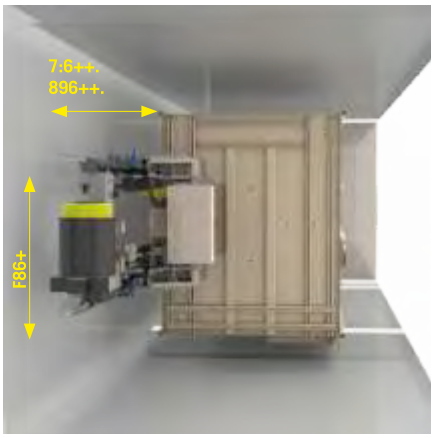
GRL series

con/sin cuarto de máquinas gearless
Gearless with machine room and machine room-less



microGRL

Especial rehabilitaciones y huecos reducidos
Special rehabilitation and small shafts

	µGRL-1	µGRL-2
Foso / Pit (*)	300mm	300mm
Altura / Overhead	3400mm	2700mm
Mecánica / Mechanical	250mm	340mm
Opción 220 monofásico / Option 220 monophasic		
(*) En caso de 630 Kg Foso min. 350 mm / In case of 630 Kg Pit min. 350 mm		
Normativa EN 81-21 / Regulation EN 81-21		

huecos reducidos / reduced shafts

1 acceso 1 access

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1370x1150	1:1 / 2:1	950x900	700	1	7,5	2,3	3400	3500	700	1050
480	1420x1500		1000x1250	800		10,6	3	3400	3500	700	1050
630	1550x1650	2:1	1100x1400	900		4,7	11,9	3400	3500	700	1050

2 accesos 180º 2 access 180º

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1370x1250	1:1 / 2:1	950x900	700	1	7,5	2,3	3400	3500	700	1050
480	1420x1550		1000x1250	800		10,6	3	3400	3500	700	1050
630	1550x1700	2:1	1100x1400	900		4,7	11,9	3400	3500	700	1050

2 accesos 90º / 2 access 90º

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1370x1370	1:1 / 2:1	850x1000	700	1	7,5	2,3	3400	3500	700	1050
480	1520x1520		1000x1250	800		10,6	3	3400	3500	700	1050
630	1650x1700	2:1	1100x1400	900		4,7	11,9	3400	3500	700	1050

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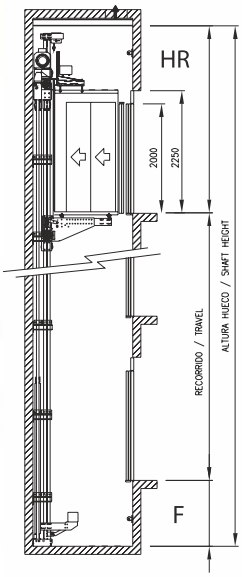
EN 81-20

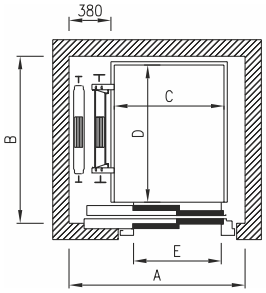
ascensores eléctricoselectric lifts

sin cuarto de máquinas gearless Machine room-less



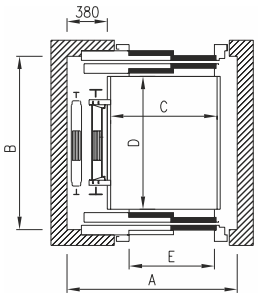
miniGRL

1 acceso 1 access



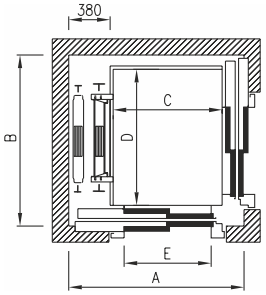
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1400x1400	2:1	850x1000	700	1 / 1,6	2,3	8,3	3550	3600	700	1200
480	1550x1500		1000x1250	800		3,2	9,9	3400	3500	700	1200
630	1650x1650		1100x1400	800		4,3	13	3400	3500	700	1200

2 accesos 180º 2 access 180º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1400x1500	2:1	850x1000	700	1 / 1,6	2,3	8,3	3550	3600	700	1200
480	1550x1600		1000x1250	800		3,2	9,9	3400	3500	700	1200
630	1650x1800		1100x1400			4,3	13	3400	3500	700	1200

2 accesos 90º / 2 access 90º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
320	1500x1450	2:1	850x1000	700	1 / 1,6	2,3	8,3	3550	3600	700	1200
480	1650x1550		1000x1250	800		3,2	9,9	3400	3500	700	1200
630	1750x1700		1100x1400			4,3	13	3400	3500	700	1200

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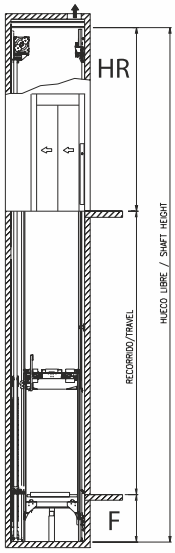
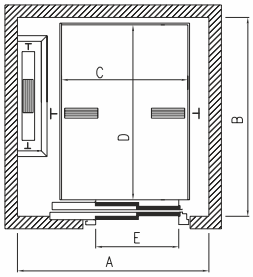
EN 81-20

con/sin cuarto de máquinas gearless
Gearless with machine room and machine room-less



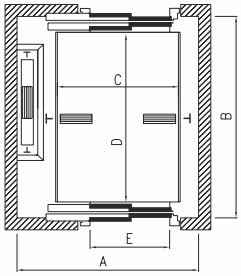
GRLp

1 acceso 1 access



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
320	1350x1400	2:1	850x1000	700	1 1,6	8 13	4,5 5,3	4350 4450	4400 4500	H=700	1350
480	1500x1550		1000x1250	800	1 1,6	8 13	4,5 7,1	3400 3600	3500 3700	H=700	1100 1200
630	1600x1700		1100x1400	900	1 1,6	10 16	5,9 9,4	3400 3500	3600 3600	H=700	1100 1200
800	1750x1900	2:1	1100x1600	900	1 1,6	12 19	7,5 12	3450 3550	3650 3750	H=700	1100 1200
1000	1750x2400		1100x2100	900	1 1,6	14,5 22	9,6 15,2	3500 3700	3600 3800	H=700	1200 1300

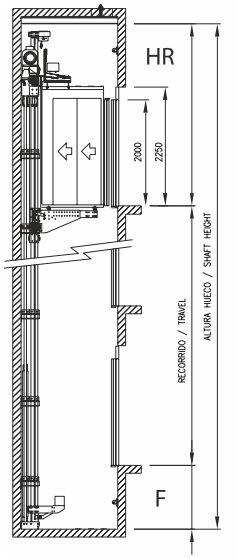
2 accesos 180º 2 access 180º

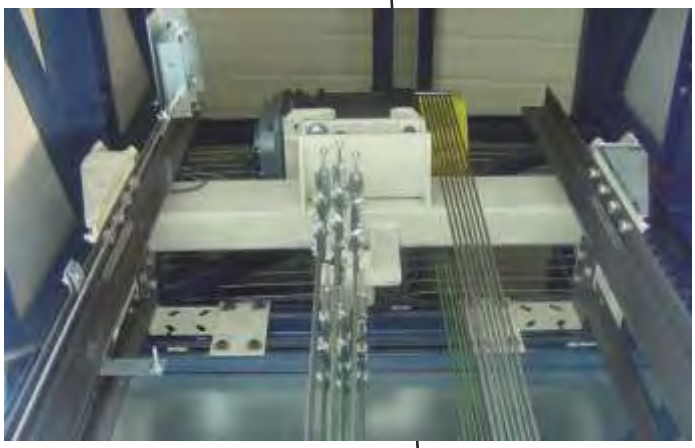


(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
320	1350x1600	2:1	850x1000	700	1 1,6	8 13	4,5 5,3	4350 4450	4400 4500	H=700	1350
480	1500x1750		1000x1250	800	1 1,6	8 13	4,5 7,1	3400 3600	3500 3700	H=700	1100 1200
630	1600x1900		1100x1400	900	1 1,6	10 16	5,9 9,4	3400 3500	3600 3600	H=700	1100 1200
800	1750x2100	2:1	1100x1600	900	1 1,6	12 19	7,5 12	3450 3550	3650 3750	H=700	1100 1200
1000	1750x2600		1100x2100	900	1 1,6	14,5 22	9,6 15,2	3500 3700	3600 3800	H=700	1200 1300

ascensores ZENER
GRUPO ARMONIZA

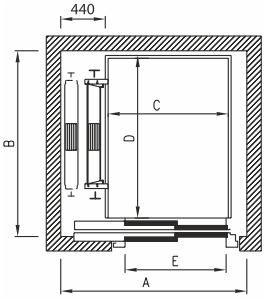
ascensores eléctricoselectric lifts





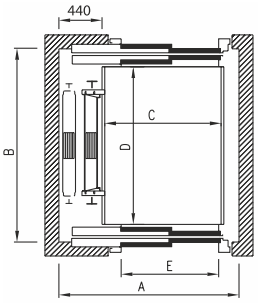
GRL2

1 acceso 1 access



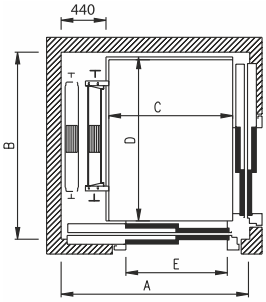
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
800	1750x1900	2:1	1100x1600	900	1	19,5	5,8	3800	3900	H=1100	1200
1000	1750x2400		1100x2100	900		21,5	7,1	3800	3900	H=1100	1200

2 accesos 180º 2 access 180º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
800	1750x2100	2:1	1100x1600	900	1	19,5	5,8	3800	3900	H=1100	1200
1000	1750x2600		1100x2100	900		21,5	7,1	3800	3900	H=1100	1200

2 accesos 90º2 access 90º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
800	1750x2100	2:1	1100x1600	900	1	19,5	5,8	3800	3900	H=1100	1200
1000	1750x2600		1100x2100	900		21,5	7,1	3800	3900	H=1100	1200
825	1850x2100		1400x1400	900		19,5	5,8	3800	3900	H=1100	1200

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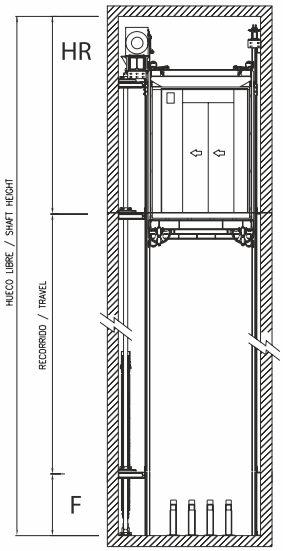
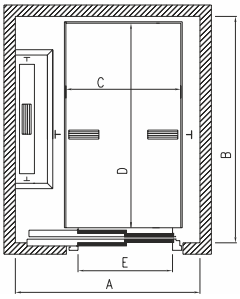
EN 81-20

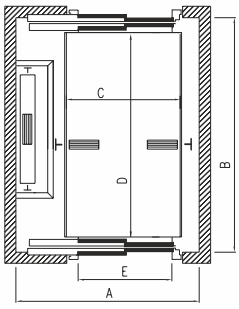


GRL4



1 acceso 1 access

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
1250	2250x2400	2:1	1300x2100	1000	1 \ 1,6	25 \ 39	11 \ 18	3900	4000	H=1100	1250
1600	2350x2650		1400x2350	1100		28 \ 44	16 \ 26	3900	4000	H=1100	1300
2000	2450x2900		1500x2600	1200		45 \ 65	20 \ 32	3900	4000	H=1100	1300
2500	2750x3000		1800x2700	1300		68 \ 83	26 \ 36	4000	4100	H=1100	1400



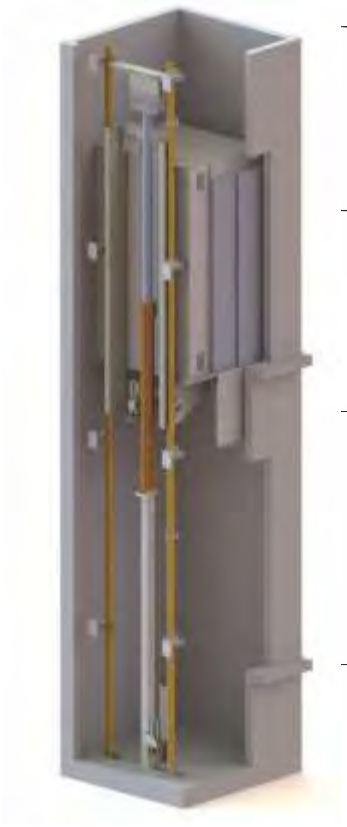
2 accesos 180º 2 access 180º

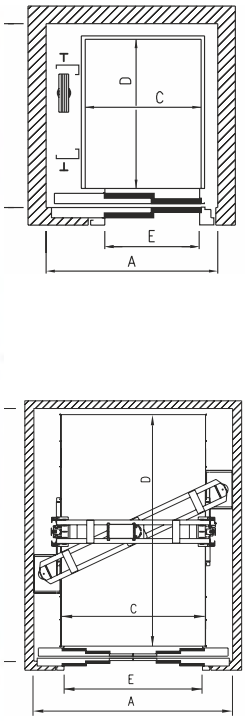
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(Kw)	HM	HR	B	F
1250	2200x2500	2:1	1300x2100	1000	1 \ 1,6	25 \ 39	11 \ 18	3900	4000	H=1100	1250
1600	2350x2750		1400x2350	1100		28 \ 44	16 \ 26	3900	4000	H=1100	1300
2000	2450x2300		1500x2600	1200		45 \ 65	20 \ 32	3900	4000	H=1100	1300
2500	2750x3100		1800x2700	1300		68 \ 83	26 \ 36	4000	4100	H=1100	1400

ascensores ZENER GRUPO ARMONIZA

ascensores hidráulicos hydraulic lifts

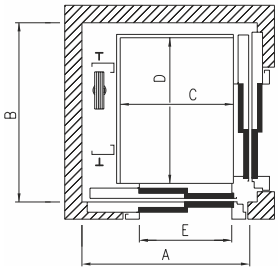
1 acceso 1 access





(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
1 Cilindro / *1 Cylinder*											
300	1350x1300	2:1	870x1000	700	0,63	15 \ 45	8	3350	3450	H=700	1150
375	1450x1500		900x1200	800		20 \ 58	10,5	3350	3450	H=700	1150
450	1500x1550		1000x1250			20 \ 58	10,5	3350	3450	H=700	1150
525	1600x1600		1100x1300	850		23 \ 70	13	3350	3450	H=700	1150
630	1600x1700		1100x1400	900		23 \ 70	13	3350	3450	H=700	1150
750	1600x1900		1100x1600			28 \ 40	15	3400	3500	H=700	1300
900	1650x2200		1100x1900			34 \ 48	20	3400	3500	H=700	1300
1000	1650x2400		1100x2100			34 \ 48	20	3400	3500	H=700	1300
1125	1750x2400		1200x2100	1000		42 \ 60	25	3400	3500	H=700	1500
1250	1800x2500		1250x2150			51 \ 73	30	3400	3500	H=700	1500
1425	1900x2650		1350x2300	1100		51 \ 73	30	3400	3500	H=700	1500
1600	1950x2800		1400x2450			68 \ 98	40	3400	3500	H=700	1500
2 Cilindros / *2 Cylinders*											
1600	2500x2500	1:1	1600x2100	1500	0,3-0,63	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*
2000	2700x2650		1800x2250	1700		*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*
2500	2900x2800		2000x2400	1800		*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*
3000	3200x2800		2300x2400	2200		*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*
3500	3400x2900		2500x2500	2300		*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*
4000	3400x3200		2500x2800			*To verify*	*To verify*	*To verify*	*To verify*	*To verify*	*To verify*

2 accesos 90º 2 access 90º



(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
1 Cilindro / *1 Cylinder*											
300	1450x1450	2:1	900x1000	700	0,63	15 \ 45	8	3350	3450	H=700	1150
375	1500x1500		950x1100	800		20 \ 58	10,5	3350	3450	H=700	1150
450	1550x1650		1000x1250			20 \ 58	10,5	3350	3450	H=700	1150
525	1650x1650		1100x1250	850		23 \ 70	13	3350	3450	H=700	1150
630	1650x1800		1100x1400	900		23 \ 70	13	3350	3450	H=700	1150
750	1800x1800		1250x1400			28 \ 40	15	3400	3500	H=700	1300
900	1850x2000		1300x1600			34 \ 48	20	3400	3500	H=700	1300
1000	1950x2000		1400x1600			34 \ 48	20	3400	3500	H=700	1300
1125	1800x2550		1200x2100	1000		42 \ 60	25	3400	3500	H=700	1500
1250	1850x2600		1250x2150			51 \ 73	30	3400	3500	H=700	1500

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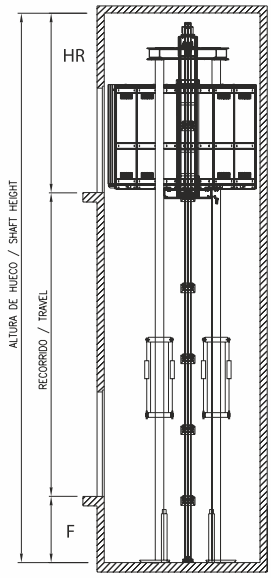
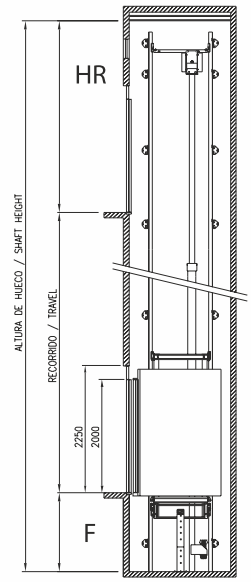
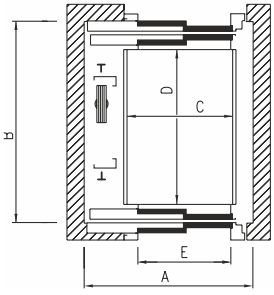
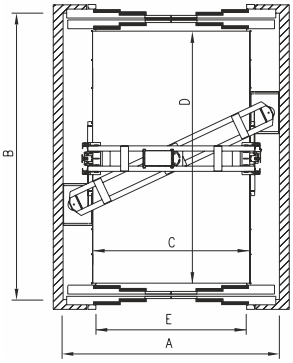
2 accesos 180º 2 access 180º





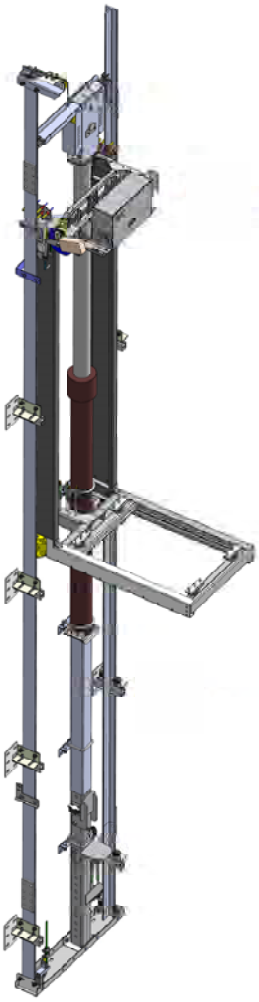
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
1 Cilindro / *1 Cylinder*											
300	1350x1400	2:1	870x1000	700	0,63	15 \ 45	8	3350	3450	H=700	1100
375	1450x1600		900x1200	800		20 \ 58	10,5	3350	3450	H=700	1100
450	1500x1650		1000x1250			20 \ 58	10,5	3350	3450	H=700	1100
525	1600x1700		1100x1300	850		23 \ 70	13	3350	3450	H=700	1100
630	1600x1800		1100x1400	900		23 \ 70	13	3350	3450	H=700	1100
750	1600x2000		1100x1600			28 \ 40	15	3400	3500	H=700	1300
900	1650x2300		1100x1900			34 \ 48	20	3400	3500	H=700	1300
1000	1650x2500		1100x2100			34 \ 48	20	3400	3500	H=700	1300
1125	1750x2500		1200x2100	1000		42 \ 60	25	3400	3500	H=700	1300
1250	1800x2600		1250x2150			51 \ 73	30	3400	3500	H=700	1300
2 Cilindros / *2 Cylinders*											
1600	2500x2550	1:1	1600x2100	1500	0,3-0,63	*To verify*	*To verify*	3400	3500	H=700	1100
2000	2700x2700		1800x2250	1700		*To verify*	*To verify*	3400	3500	H=700	1100
2500	2900x2850		2000x2400	1800		*To verify*	*To verify*	3400	3500	H=700	1100
3000	3200x2850		2300x2400	2200		*To verify*	*To verify*	3400	3500	H=700	1100
3500	3400x2950		2500x2500	2300		*To verify*	*To verify*	3400	3500	H=700	1100
4000	3400x3250		2500x2800			*To verify*	*To verify*	3400	3500	H=700	1100





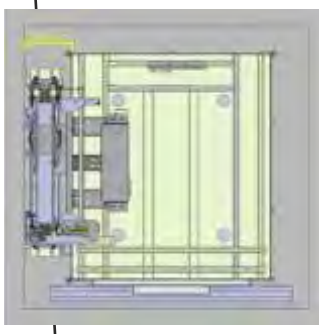
ascensores hidráulicos hydraulic lifts

Hidráulico foso - huida reducida Hydraulic low pit - low headroom



microHD

Especial rehabilitaciones y huecos reducidos
Special rehabilitation and small shafts



	µHD
Foso (*) / Pit	300mm
Huida / Headroom	2700mm
Maquinaria / Machinery	220mm
Opción 220 mm profundo / Option 220 mm deep	

Huecos estándar / Standard shafts

1 acceso 1 access

µHD

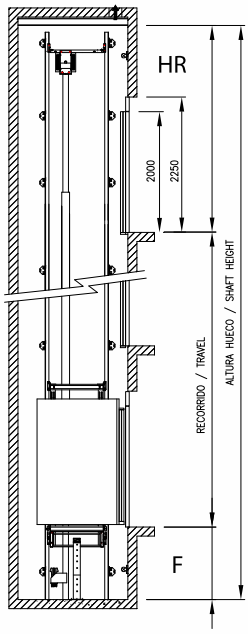
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
320	1250x1300	2:1	800x1000	700	0,63	15 \ 45	8	2700	2700	H=700	300
480	1400x1500		1000x1250	800		20 \ 58	10,5	3400	2700	H=700	300

2 accesos 180º 2 access 180º

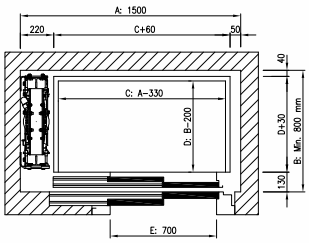
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
320	1250x1450	2:1	800x1000	700	0,63	15 \ 45	8	2700	2700	H=700	300
480	1400x1650		1000x1250	800		20 \ 58	10,5	3400	2700	H=700	300

2 accesos 90º 2 access 90º

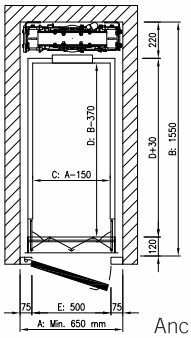
(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
320	1350x1350	2:1	800x1000	700	0,63	15 \ 45	8	2700	2700	H=700	300
480	1450x1500		1000x1250	800		20 \ 58	10,5	3400	2700	H=700	300



Huecos mínimos
Miminum shafts



Foso reducido / Huida reducida
Low pit / Reduced headroom



Consulte adaptabilidad a cualquier hueco
Check adaptability to any shaft

Normativa: EN 81-21
Regulation: EN 81-21

Ancho hueco mínimo: 650 mm
Minimum shaft width

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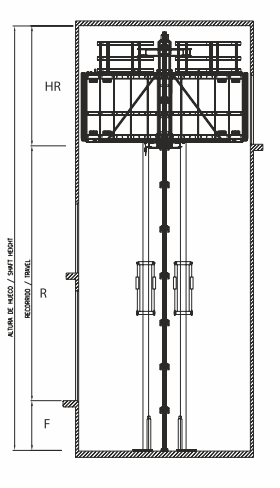
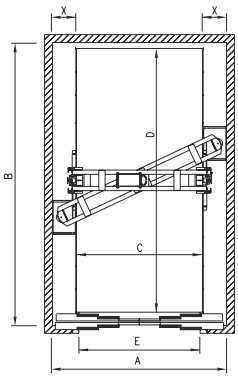
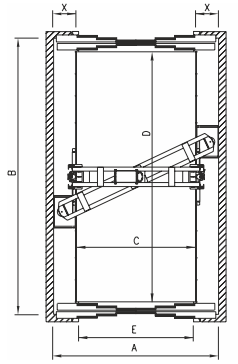
ascensores hidráulicos montacoches
hidraulic car lifts





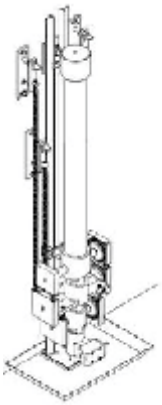
1 acceso 1 access

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
4000	3280x6100	1:1	2400x5700	2300	0,3	*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3280x6000		2400x5600			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x6000		2500x5600			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x5800		2500x5400			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x5600		2500x5200			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5800		2600x5400			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5600		2600x5200			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5400		2600x5000			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100



2 accesos 180º 2 access 180º

(kg)	AxB (mm)		CxD (mm)	E (mm)	(m/s)	(A)	(CV) (HP)	HM	HR	B	F
4000	3280x6200	1:1	2400x5700	2300	0,3	*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3280x6100		2400x5600			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x6100		2500x5600			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x5900		2500x5400			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3380x5700		2500x5200			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5900		2600x5400			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5700		2600x5200			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100
	3480x5500		2600x5000			*To verify*	*To verify*	3400	*To verify*	*To verify*	1100



cilindros telescópicos telescopic cylinders

type	R	F	RS
1 etapa *1 stage*	3000	1200	3600
	3500	1400	3800
2 etapas *2 stages*	6000	1200	3600
	6500	1400	3800
	7000	1400	4000
3 etapas *3 stages*	>7000	*consult*	*consult*

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Oficinas centrales:

C/ Zanfona, 14

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Soluciones de altura

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