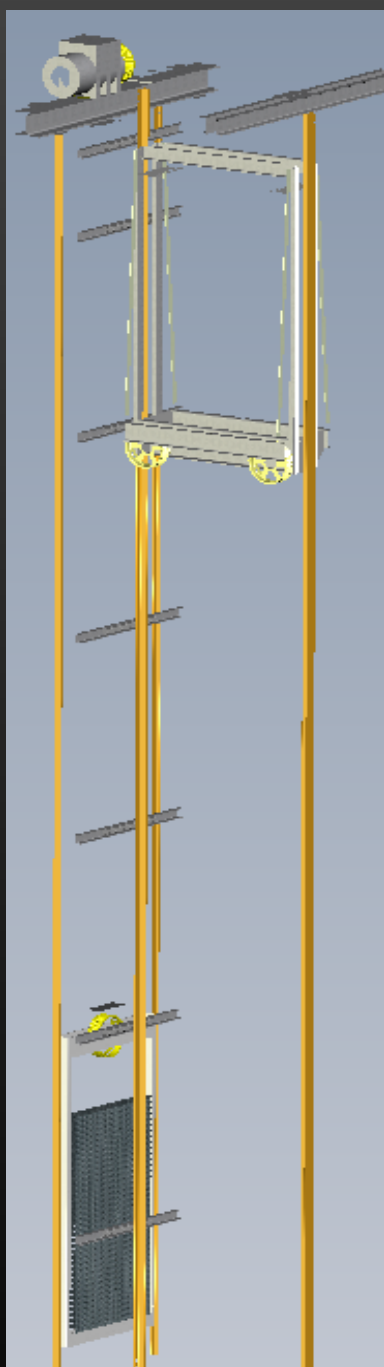


GRL 4

1250-2000Kg, MOTOR ROOM LESS



...the silence already is a reality

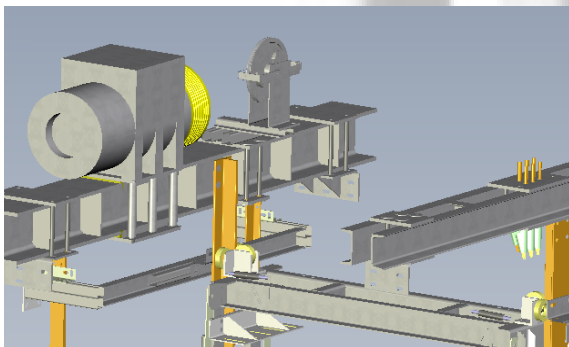
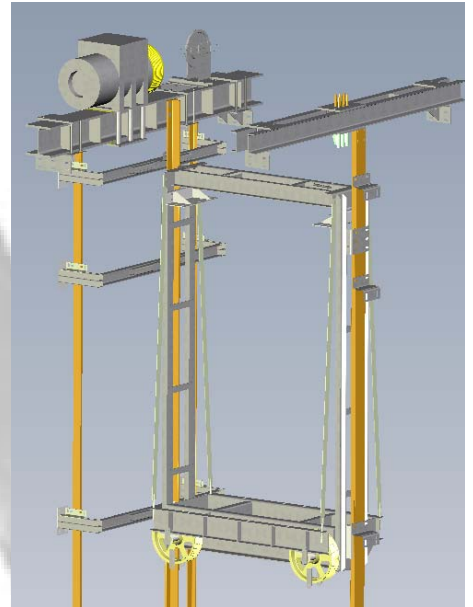
FELESA 
Fabricación de Elevadores S.L.
Española de Elevadores S.L.

Pol. Ind. Río Gállego, calle C, 28-2
Tel.: 34 976 69 45 00 Fax.:34 976 68 47 33
50840 – SAN MATEO DE GÁLLEGO
ZARAGOZA – SPAIN
felesa@felesa.com - www.felesa.com

GRL 4

GRL4 is an electric lift designed to be installed in building who has not machines room.

The gearless machine reduce notably his size and improve substantially the performance of the lift, diminishing the consumption.



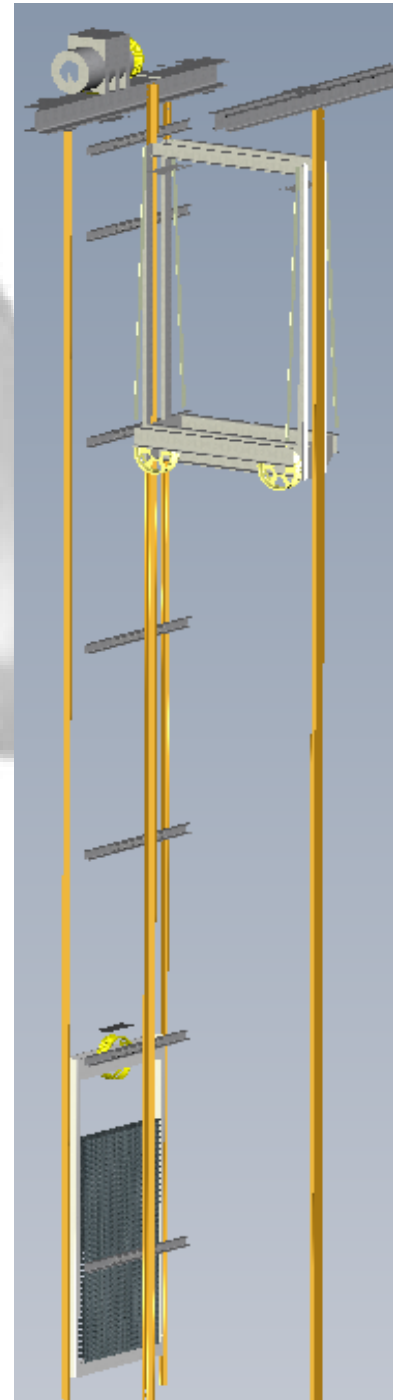
The mechanical design has been studied in order to obtain in every shaft the better car dimensions.

GRL4 is an electric lift designed and manufactured with Felesa's confirmed quality, company with more than 30 years of experience in the research, development and manufacture of elevators and goodslifts.



GRL 4

- Load of 1250-2000Kg
- Rated speed 1 m/s - 1,6m/s
- Acting 2:1
- Machine Ziehl-Abegg (gearless) placed on top of shaft
- Reduced shaft dimensions
- Minimum head room 4000mm
- Minimum pit 1300mm
- Quick and safe assembly
- Elevator in compliance with UNE-EN 81-1 Appendix 2



GRL 4

Precision and confort

Inverter Fuji *FRENIC lift*, the ideal combination of strength, quality, reliability and confort:

- High overload capacity
- Static auto-tuning
- Excellent rollback avoidance
- Noiseless
- Easy remote rescue operation with SAI and batteries, operated from controller box
- RDD function, signal for indication of the recommended direction
- Advanced functions for maintenance, end of life warning signal,...



Gearless machine (Ziehl-Abegg) synchronous with permanent magnets:

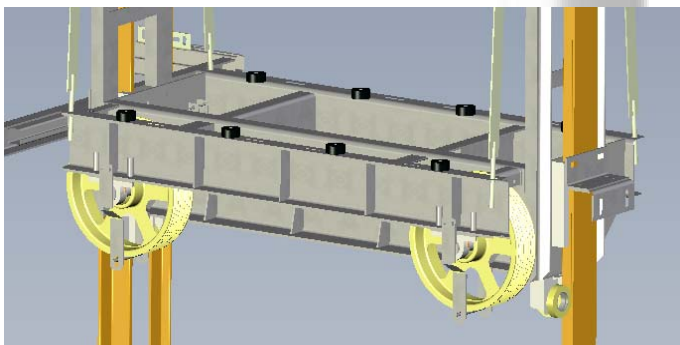
- Low consumption
- Reduced maintenance
- Gearless
- Noiseless
- High performance
- Gentle work

GRL 4

Intelligent design

Reduced cabinet into the door frame of the last floor, characteristics:

- Reduced size
- Provided with an easy remote rescue, manual or automatic
- Indication of speed, direction and unlocking zone
- Bidirectional communication with car



Acting 2:1, which reduce substantially the machine size, therefore the assembly is easier. Isolated pulleys in order to avoid the transmission of noise to the car



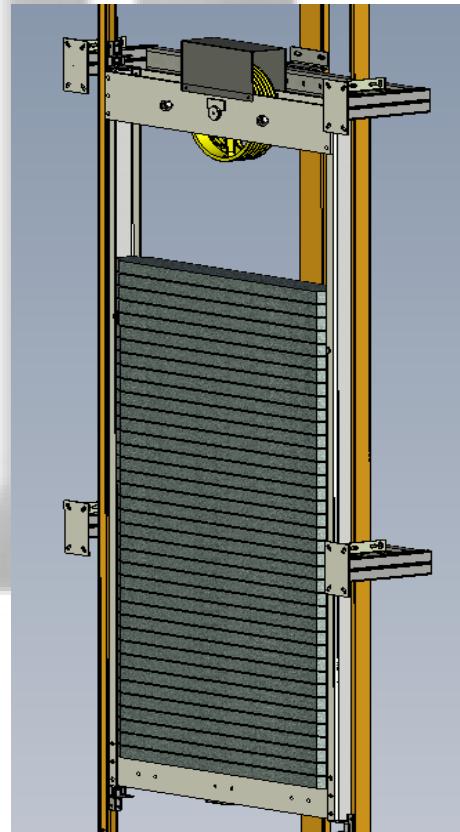
GRL 4

Mechanical parts



Car frame

Counterweight frame

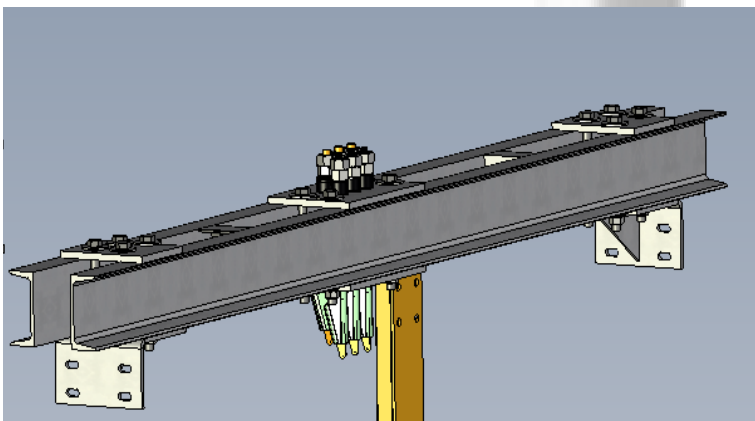
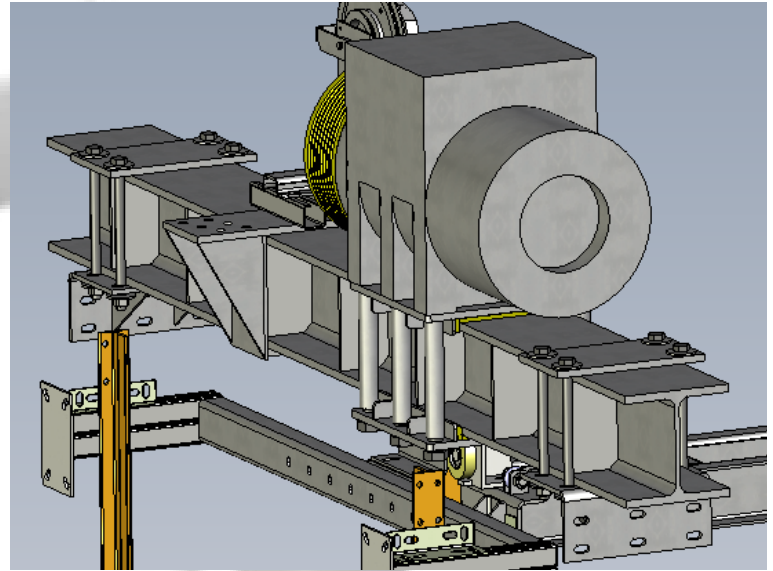




GRL 4

Mechanical parts

Machine frame



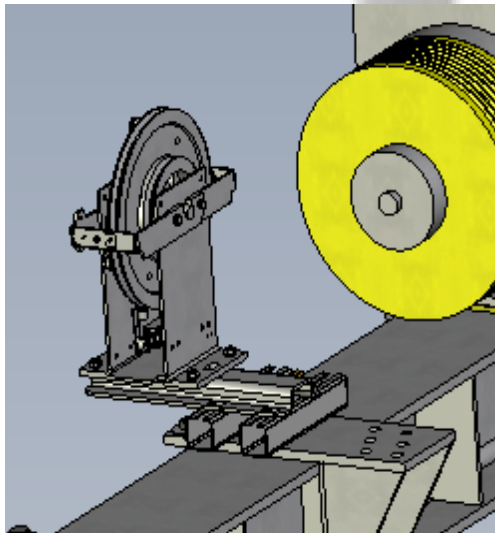
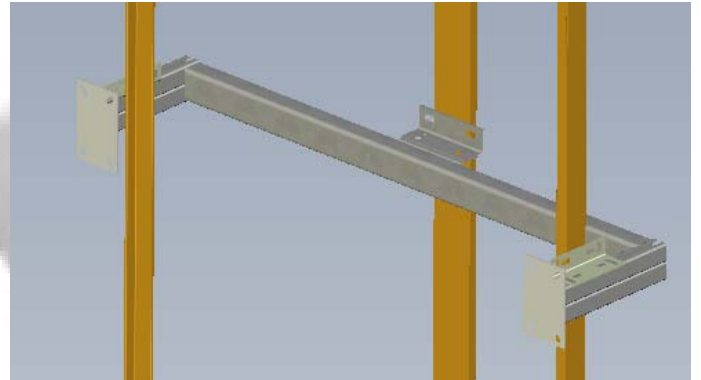
Fixation of wedge sockets



GRL 4

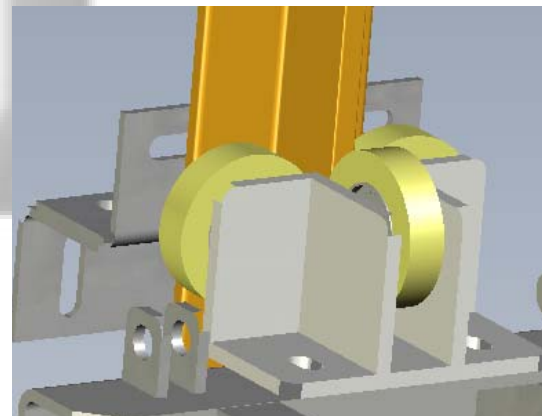
Mechanical parts

Guide brackets



Overspeed governor

Car frame equipped with rollers





GRL 4

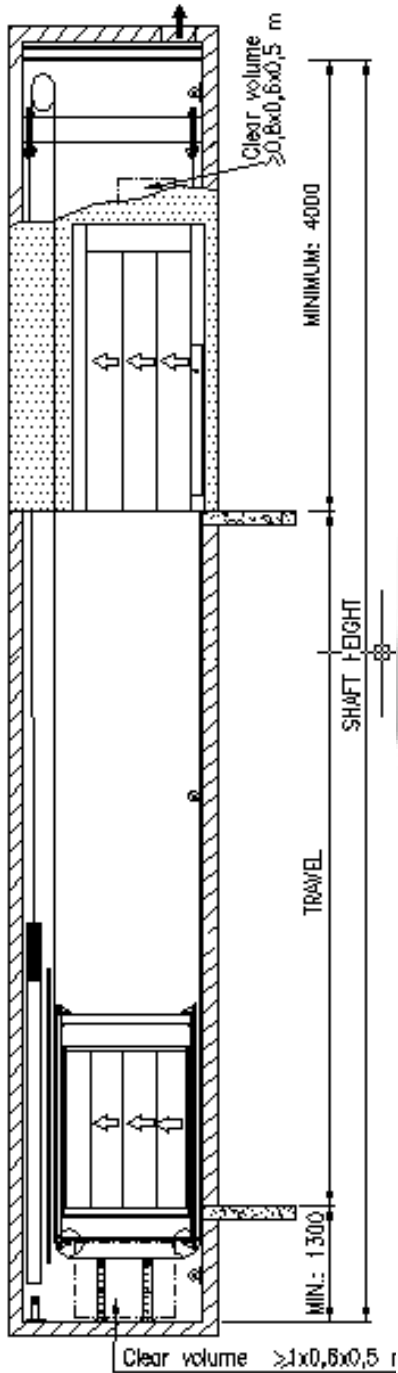
Technical data

CHARACTERISTICS		
TYPE OF DRIVE	Electrical	
ACTING	2:1	
RATED SPEED	1 m/s – 1,6 m/s	
LOAD	1250/1600/2000Kg	
ACCESS	Simple / Doble (180°)	
MAXIMUM TRAVEL	45 m	
MINIMUM PIT HEIGHT	1300 mm	
MINIMUM HEADROOM HEIGHT	4000 mm	
HANGING	1250 Kg: 4 steel ropes 10mm 1600 Kg: 6 steel ropes 10mm 2000Kg: 8 steel ropes 10mm	
SHAFT MATERIAL CONSTRUCTION	Beton / Brick / Steel profile	
CONTROLLER LOCATION	Into the door frame of the last floor	
ELECTRICAL SUPPLY	380 V-III 50 – 60 Hz	
POWER	S=1m/s	S=1,6m/s
	1250Kg; 7,7Kw 1600Kg; 9,5Kw 2000Kg; 12Kw	1250Kg; 12,1Kw 1600Kg; 15,2Kw 2000Kg; 19,2Kw



GRL 4

Technical data



	Load (Kg)	Shaft AxB (mm)	Interior car CxD (mm)	Clear open. E (mm)
1 Access	1250	2100x2400	1300x2100	1000
	1600	2200x2600	1400x2300	1000
	2000	2300x2900	1500x2600	1000
2 Acces 180°	1250	2100x2500	1300x2100	1000
	1600	2200x2700	1400x2300	1000
	2000	2300x3000	1500x2600	1000

