Metron | Engineering for Life

www.metronsa.eu

ALUMIL Group

introduction - history

www.metronsa.eu

The idea of creating an automation company was born in 1988 by a group of engineers that was working for the construction company "Horizon". At that time, Horizon was responsible for the construction of a car control center which had automatic doors for buildings as part of the project specifications. The increased cost stimulated this group of engineers to manufacture on their own automatic doors for buildings from scratch based on their self-confidence and mentality "Yes, we can".

The project was successfully completed, however, the market conditions transformed the initial idea towards the creation of automatic doors for lifts. Hence, in 1995 Metron was established from Mr. Ioannis Sandros in a small town named Nigrita where they were built production facilities less than 500 m2.

In 2000, Mr. George Milonas (president of Alumil Group) decided to invest in Metron's know-how and human capital, therefore, Metron was integrated to Alumil Group with the relative share restructuring. After the initial investment Metron moved to the Industrial Area of Serres, where it was equipped with the latest machinery tools.

Product-wise Metron started the production of folding doors, Bus type, a product that gained rapidly big market share in Greece and in Europe, while at the same time gradually Metron expanded its product range with Automatic Doors, Cabins and Semi-Automatic Doors. In 2008, after the successful completion of continuous investments Metron began designing and manufacturing of Complete Lift Solutions. In 2009, Metron manufactured the first hydraulic system and very quickly traction solutions with or without machine room were also introduced to the arsenal.

The company due to the Greek crisis expanded dynamically the exports in most European countries, in Africa, Latin America, Arabian Gulf etc. and as a result is now exporting 85% of its total annual sales.

New products and services are being developed and updated continuously every day, always with the same identity elements:

- Applied Advanced Technology
- Reliability as people, as company, as product
- Unique Design
- Competitiveness

corporate values

www.metronsa.eu

In Metron together with our partners we build our brand identity on 3 axes:

1.People
The foundation based on which Metron is built is its human capital, Metron people. Either people on the production lines or people at the front line. All are considered as Metron's biggest competitive advantage and continuous source of inspiration now and always. Respect, ethos , team spirit and the ability of alignment are timeless values and they secure excellent level of customer service and support.

2.Integrity
Metron aims at long-term trustworthy partnerships through the establishment of win-win decisions for our partners, the final users of our products, our employees and Metron itself.

3.Creativity
Customer satisfaction, for us, is the result of constant improvement and innovation. We are who we are, not because of being the best, but for being the ones who hear their customers, value their opinions, the ones who want to improve themselves, to make one step forward. We are competitive because we care for our own future and the future of our partners.

facilities

www.metronsa.eu

Metron's headquarters in the Industrial Area of Serres in Greece are located in a privately owned area of 36.000 m2, including 15.000 m2 of production facilities and additional 1.000 m2 of administration offices and research, training and development buildings. For the manufacturing of its products, characterized by increased technical and aesthetic requirements, the company invests constantly not only in modern mechanical equipment but also in highly educated and trained workforce.

Aiming to improve the overall experience that our solutions offer, new products and services are being developed and updated every day, always with the same **Metron** characteristics:

- "Useful advanced technology" as a client-oriented perception of advanced technology use.
- Reliability, both as a product characteristic and as a corporate practice.
- Distinctive design
- Competitiveness, perceived as the best value-for-money relationship.

ALUMIL Group

In 1988 Mylonas family founded an aluminium profile factory outside of Kilkis, in order to supply the local market. Over the last 20 years this small unit has transformed into the biggest private aluminium extrusion company in SouthEastern Europe. Today, with more than 20 years of experience, Alumil is one of the most advanced companies globally in the design and production of aluminium extrusion products with state- of- the art production lines in all its factories.

Alumil's most important asset is its Human Resources. More than 2000 employees in 25 different countries continue to lead Alumil into new markets. Based on extensive experience and expertise of our people, we try to "build excellence every day".

ALUMIL S.A. is the largest private industry in southeastern Europe, who produces and supplies aluminum profile systems, and is amongst Europe's accredited suppliers of architectural aluminum systems.

Today, In southeastern Europe Alumil is:
- No1 extruder for aluminum profile systems
- No1 in sales
- No1 in exports
- No1 in development
- No1 in investments
- No1 in creating new jobs
- No1 in industrial area

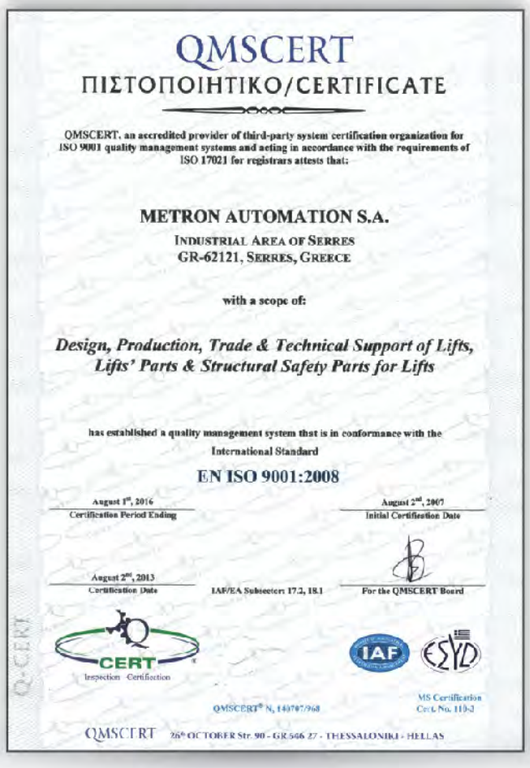
Industrial operations
13 aluminum extrusion lines
9 electrostatic paint lines
2 electrostatic paint lines with wood grain effect
3 smelting plants
2 anodizing plants
7 thermal break lines
1 manufacturing plant for interior doors and security doors
1 manufacturing plant for roll-formed aluminum-foam filled profiles
1 manufacturing plant for automated systems
4 manufacturing plants for system accessories
1 manufacturing plant for aluminum composite panels
1 manufacturing plant for polycarbonate sheets

Production capacity
106.000 tons of aluminum extrusion
57.500 tons of powder coating
80.000 tons of recycled aluminum
20.000 tons of anodized aluminum
45.000 tons of thermally broken profiles
800.000 square meters of aluminum composite panel
800.000 square meters of polycarbonate sheets
10.000.000 meters of polyamide profiles
Industrial area (Greece, Romania, Bulgaria, Albania, Serbia and Bosnia)

The biggest retail network in South-East Europe
Over the past 15 years Alumil has developed and operates successfully a retail network of over 50 brunches (Sales & Distribution Stores-SDS) in South-East Europe on key categories of building products. Aluminium systems are the core product category.
The national retail networks in each country (Romania, Bulgaria, FYROM, Albania, Paland, Chech Republic, Hungary, Serbia, Bosnia, Kosovo, Montenegro, Moldova, Ukraine, etc) create a multi-national retail sales network; the largest in South-East Europe for building materials.

certifications

www.metronsa.eu



QMSCERT
ΠΙΣΤΟΠΟΙΗΤΙΚΟ/CERTIFICATE

QMSCERT, an accredited provider of third-party system certification organization for ISO 9001 quality management systems and acting in accordance with the requirements of ISO 17021 for registrars attests that:

METRON AUTOMATION S.A.
INDUSTRIAL AREA OF SERRES
GR-62121, SERRES, GREECE

with a scope of:

Design, Production, Trade & Technical Support of Lifts, Lifts' Parts & Structural Safety Parts for Lifts

has established a quality management system that is in conformance with the International Standard

EN ISO 9001:2008

August 1st, 2016 — Certification Period Ending
August 2nd, 2007 — Initial Certification Date
August 2nd, 2013 — Certification Date
IAF/EA Subsector: 17.2, 18.1
For the QMSCERT Board

CERT Inspection - Certification
QMSCERT® N. 140707/968
MS Certification Cert. No. 110-3
QMSCERT 26th OCTOBER Str. 90 - GR 546 27 - THESSALONIKI - HELLAS

TÜV SAARLAND

Certificate DE 3/71104 2011

The management system of

METRON AUTOMATION S.A.
Serres Industrial Area
GR-62121 Serres, Greece

has been assessed and certificated meeting the requirements of

ISO 9001:2008

for the following activities

design, production, trade & technical support of lifts, lifts' parts & structural safety parts for lifts

Further clarifications regarding the scope of this certification and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization

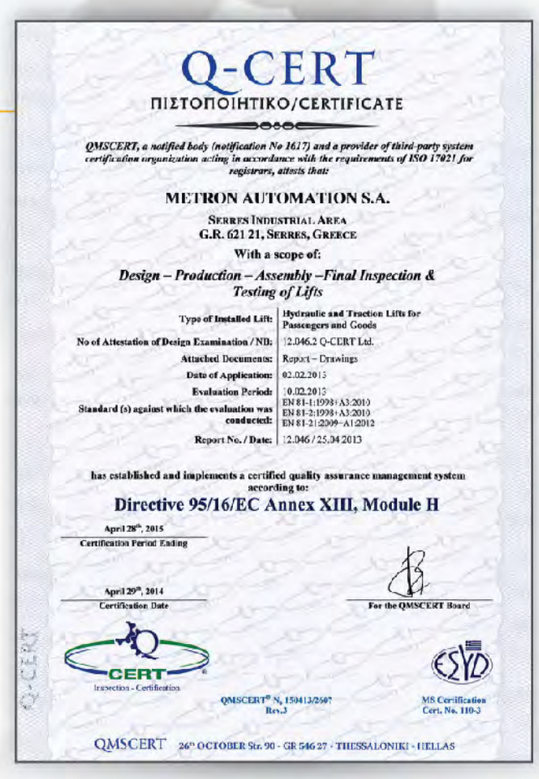
This certificate is valid from 13/05/2010 until 12/09/2010

Authorised by

TÜV SAAR CERT Certification Body of "TÜV Saarland e. V."
Am TÜV 1, 66280 Sulzbach (Germany)
t +49 (0)68 97-506-286 f +49 (0)68 97-506-228 www.tuev-saar-cert.de

Page 1 of 1

DAkkS Deutsche Akkreditierungsstelle D-PZ-11084-01-00
TÜV SAARLAND ISO 9001



Q-CERT
ΠΙΣΤΟΠΟΙΗΤΙΚΟ/CERTIFICATE

QMSCERT, a notified body (notification No 1617) and a provider of third-party system certification organization acting in accordance with the requirements of ISO 17021 for registrars, attests that:

METRON AUTOMATION S.A.
SERRES INDUSTRIAL AREA
G.R. 621 21, SERRES, GREECE

With a scope of:

Design – Production – Assembly –Final Inspection & Testing of Lifts

Type of Installed Lift:	Hydraulic and Traction Lifts for Passengers and Goods
No of Attestation of Design Examination / ND:	12.046.2 Q-CERT Ltd.
Attached Documents:	Report – Drawings
Date of Application:	02.02.2013
Evaluation Period:	10.02.2013
Standard (s) against which the evaluation was conducted:	EN 81-1:1998+A3:2010 EN 81-2:1998+A3:2010 EN 81-21:2009+A1:2012
Report No. / Date:	12.046 / 25.04.2013

has established and implements a certified quality assurance management system according to:

Directive 95/16/EC Annex XIII, Module H

April 28th, 2015 — Certification Period Ending
April 29th, 2014 — Certification Date
For the QMSCERT Board

CERT Inspection - Certification
QMSCERT® N. 150413/2607 Rev.3
MS Certification Cert. No. 110-3
QMSCERT 26th OCTOBER Str. 90 - GR 546 27 - THESSALONIKI - HELLAS

Since 2000 **METRON** has applied a quality management system according to the **EN ISO 9001:2000** standard. All METRON products bear the **CE** of **European Union** quality certification. Production lines are programmed and controlled by **MRP** and **ERP** software.

All **Metron** lifts are designed according to the **European Directive EC 95/16** and the **EN 81.1, EN 81.2** norms. In addition, lifts are designed in compliance with the following more specific categories:

- EN 81.70 disabled people
- EN 81.28 Rescue Operation
- EN 82.21 Existing Building

Metron also possesses the **Module H** certificate which secures the outmost quality control for the *Design, Manufacturing, Installation* and *Certification of every lift*.

Metron | Passenger Lifts

Hydraulic Lifts | Traction Machine Roomless (MRL) | Traction with Machine Room

Metron
Engineering for Life
ALUMIL Group

Passenger Lifts Metron

www.metronsa.eu

Key factor in order to make the most suitable choice is to understand the main characteristics of an elevator system. Choose your elevator according to the number of floors, the usage frequency and of course the available budget. The best choice is the one that responds to your specific needs.

HYDRAULIC LIFTS:
Ideal choice for low or residential buildings (up to 6 floors), with low installation cost. The system uses oil pressure and it is highly suggested for residential usage.

TRACTION LIFTS WITH OR WITHOUT MACHINE ROOM:
Usually selected for multi-floor and high rise buildings or shopping malls with high usage frequency. Technologically state-of-the-art, besides the comparatively higher installation cost, traction lifts are the most suitable solution because of their high speed, advanced technology and low energy consumption.

Exploit Metron's know-how and purchase an elevator of high quality and safety. Metron can provide you solutions for each case, even in situations where there is no shaft by constructing a metallic frame on the external surface of your building.

Hydraulic Lifts

Basic Model	
Load/Capacity	300 to 1600 kgr (4 to 21 person)
Maximum Speed	0,75 m/sec
Maximum travel	24 m
Maximum floor served	9
Valve	Blain
Door Type	Metron Doors
Cabin Type	Metron Cabins

Hydraulic Lifts

www.metronsa.eu

Oilers

ETN - Germany

Pump

Settima - Italy

Motor

ELMO - Italy

Hydraulic Valves

Blain - Germany

Piston

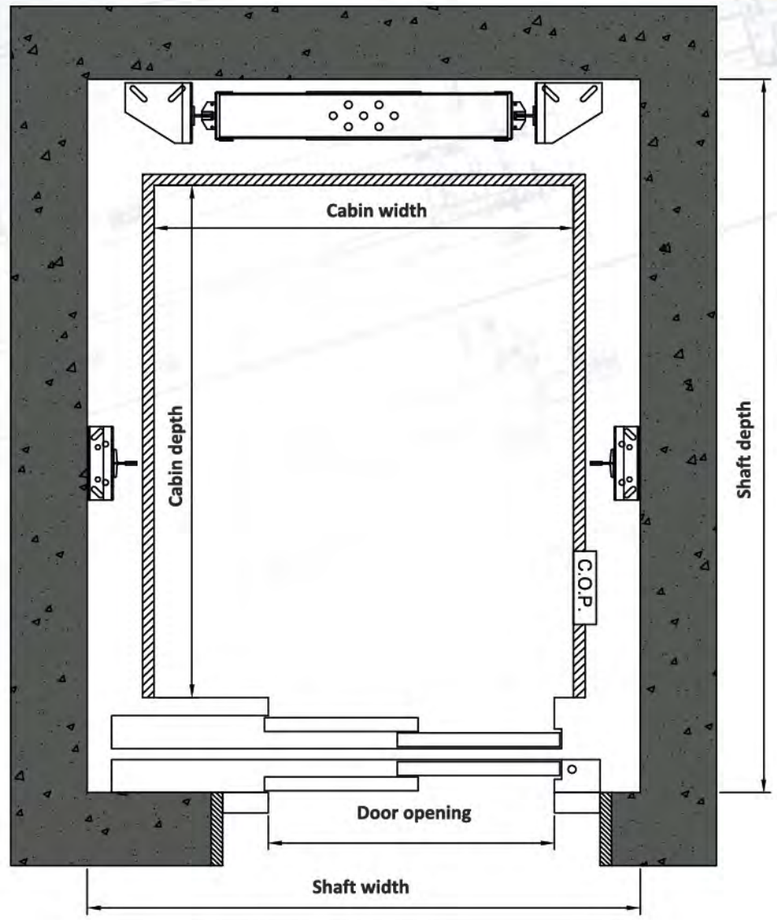
Omar/Wittur - Italy

Guiderails

Marazzi - Italy

Shoes

ETN - Germany



Persons / Load	Sling type	Min Headroom (mm)	Min Pit (mm)	Clear cabin dimensions (mm)		Shaft dimensions(mm)		Door opening CO (mm)
				Width CW	Depth CD	Width SW	Depth SD	
4/300 kg	CS 27	3070	860	900	1000	1250	1550	650
6/450kg	CS 27	3070	860	1100	1150	1450	1700	750
8/630kg	CS 813	3110	860	1100	1400	1500	1950	800
13/1000kg	CS 813	3110	860	1350	1700	1800	2250	1000
21/1600kg	InCS 1426	3050	700	1400	2400	1900	3000	1000

Technical specifications are subject to change without notice.

Machine Roomless Traction Lifts

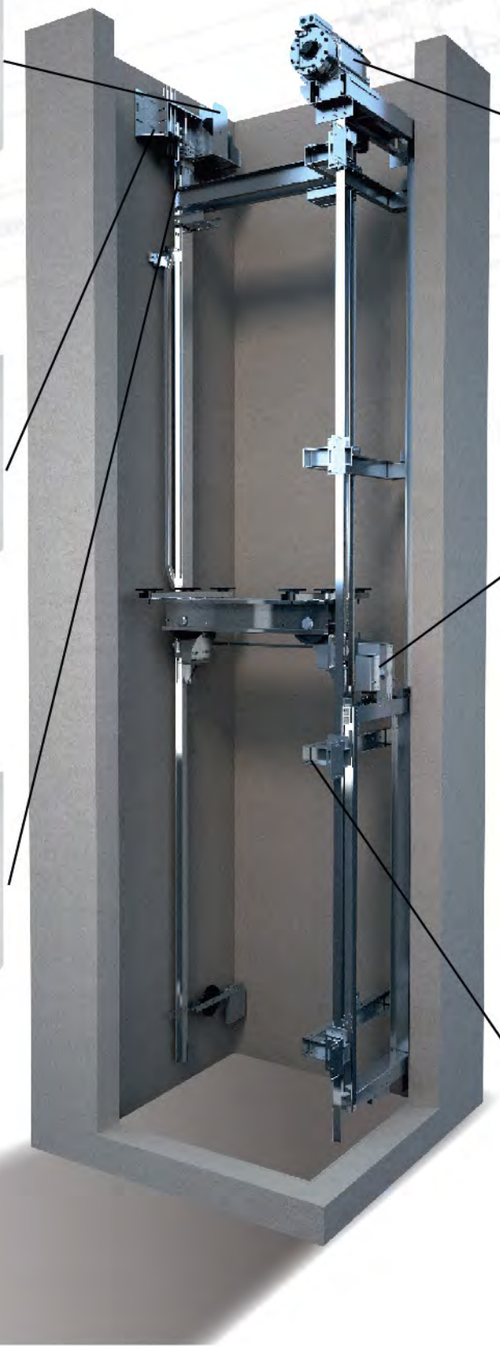
www.metronsa.eu

Metron MRL	
Load/Capacity	300 to 1600 kgr (4 to 21 person)
Maximum Speed	1,6 m/sec
Maximum travel	60 m
Maximum floor served	32
Valve	Blain
Door Type	Metron Doors
Cabin Type	Metron Cabins

Metron invests in designing a state-of-the-art...
...daring elevator that:

- Does not require a machineroom
- Does not require increased shaft's dimension
- Has low maintenance requirements
- Has greatly reduced installed capacity
- Has high aesthetic design
- Integrates technology for reduced consumption
- Integrates high technology of electronics
- It is the most environmentally friendly lift
- Conforms with directives EN81-70 & EN81-28

...and has been totally designed by Metron people



Speed Governor
PFB-Italy
(+)top safety level
(+)quick availability of spare parts

Metron Gearless Motor
in partnership with
Lafert-Italy
(+)highly experienced manufacturer
(+)KEB disk brake
(+)Heidenheim encoder

6.5mm Ropes
Gustav Wolf - Germany
(+)minimum motor pulley
(+)minimum lenghten over time

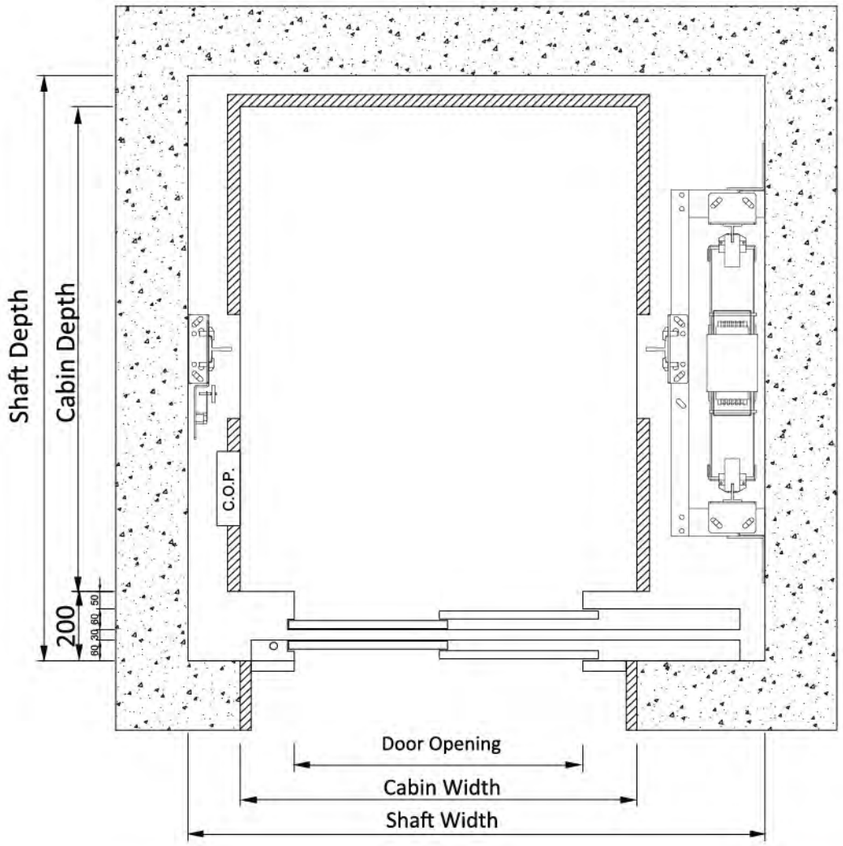
Safety Gear
Dynatech-Spain
(+)easy installation
(+)after braking no need for readjustment

Guide Shoes
ETN-Germany
(+)reduced noise inside the cabin
(+)comfort and ride quality for the passengers

Oilers
ETN-Germany
(+)right quantity of oil on rails
(+)ride quality

Machine Roomless Traction Lifts

4 - 21 persons 300 - 1600 kg 2 - 32 stops **Travel:** 3 - 60 m **Pit:** 1.00m **Head:** 3.20 m



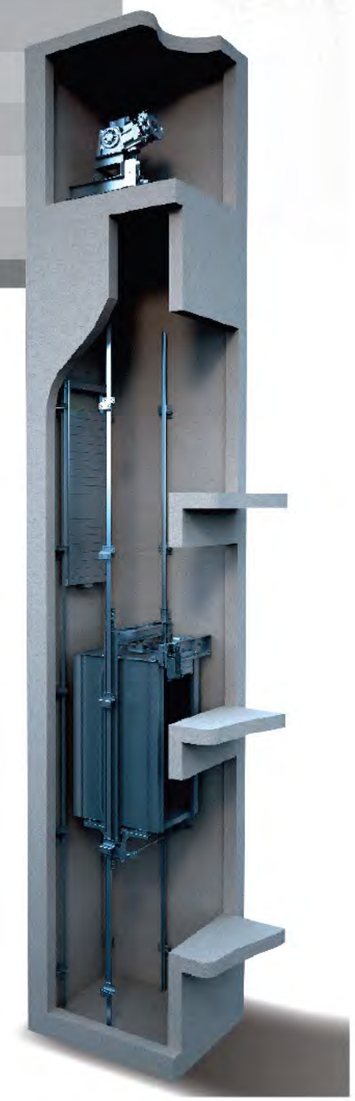
Persons / Load	Sling type	Min Headroom (mm)	Min Pit (mm)	Clear cabin dimensions (mm)		Shaft dimensions(mm)		Door opening CO (mm)
				Width **CW**	Depth **CD**	Width **SW**	Depth **SD**	
4/300 kg	CS 27	3070	860	900	1000	1250	1550	650
6/450kg	CS 27	3070	860	1100	1150	1450	1700	750
8/630kg	CS 813	3110	860	1100	1400	1500	1950	800
13/1000kg	CS 813	3110	860	1350	1700	1800	2250	1000
21/1600kg	InCS 1426	3050	700	1400	2400	1900	3000	1000

Technical specifications are subject to change without notice.

Traction Lifts with Machine Room

www.metronsa.eu

Metron Traction	
Load/Capacity	300 to 1600 kgr (4 to 21 person)
Maximum Speed	1,6 m/sec
Maximum travel	75 m
Maximum floor served	32
Valve	Blain
Door Type	Metron Doors
Cabin Type	Metron Cabins



- Reduced acquisition and maintenance cost
- Outstanding ride quality
- Precide leveling accuracy according to the EN81-1/A3 standard
- Reduces energy consumption and installed power with use of VVVF inverter
- Complete lift system
- Full shaft drawings and detailed installation, operation and maintenance manuals
- Adaptability at shaft dimensions
- Conforms with directives EN81-1, EN81-70 & EN 81-28

Guide Shoes
ETN - Germany
ETV

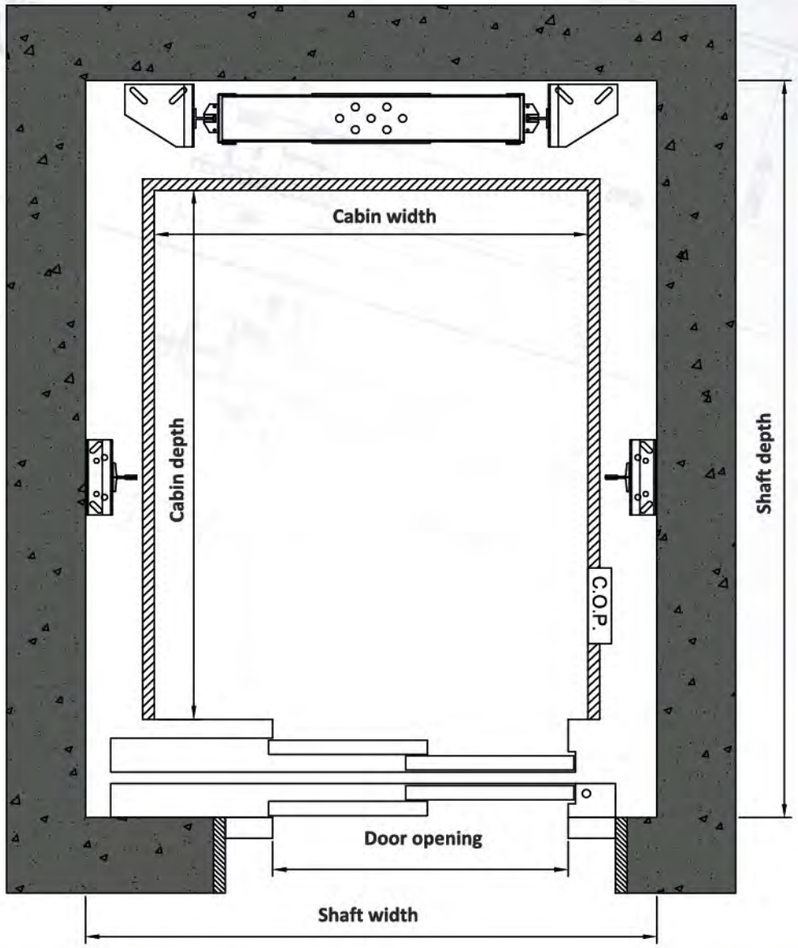
Oilers
ETN - Germany
ETV

Safety Gear
Dynatech- Spain

Geared Machine
Alberto Sassi - Italy
ETV

Traction Lifts with Machine Room

corporate



Persons / Load	Sling type	Min Headroom (mm)	Min Pit (mm)	Clear cabin dimensions (mm)		Shaft dimensions(mm)		Door opening CO (mm)
				Width CW	Depth CD	Width SW	Depth SD	
4/300 kg	CS 27	3070	860	900	1000	1250	1550	650
6/450kg	CS 27	3070	860	1100	1150	1450	1700	750
8/630kg	CS 813	3110	860	1100	1400	1500	1950	800
13/1000kg	CS 813	3110	860	1350	1700	1800	2250	1000
21/1600kg	InCS 1426	3050	700	1400	2400	1900	3000	1000

Technical specifications are subject to change without notice.

Home Lifts
HABITAT

When choosing a lift for your house, you are choosing your own elevator, the one that will always operate there.
That' s why we, in Metron, are working in order to ensure the smooth and reliable function of your elevator, combined with a flawless aesthetic result. We provide solutions with a great variety of choices in patterns, colours and materials, in order to make a unique lift for you.

Metron Home Lifts - HABITAT

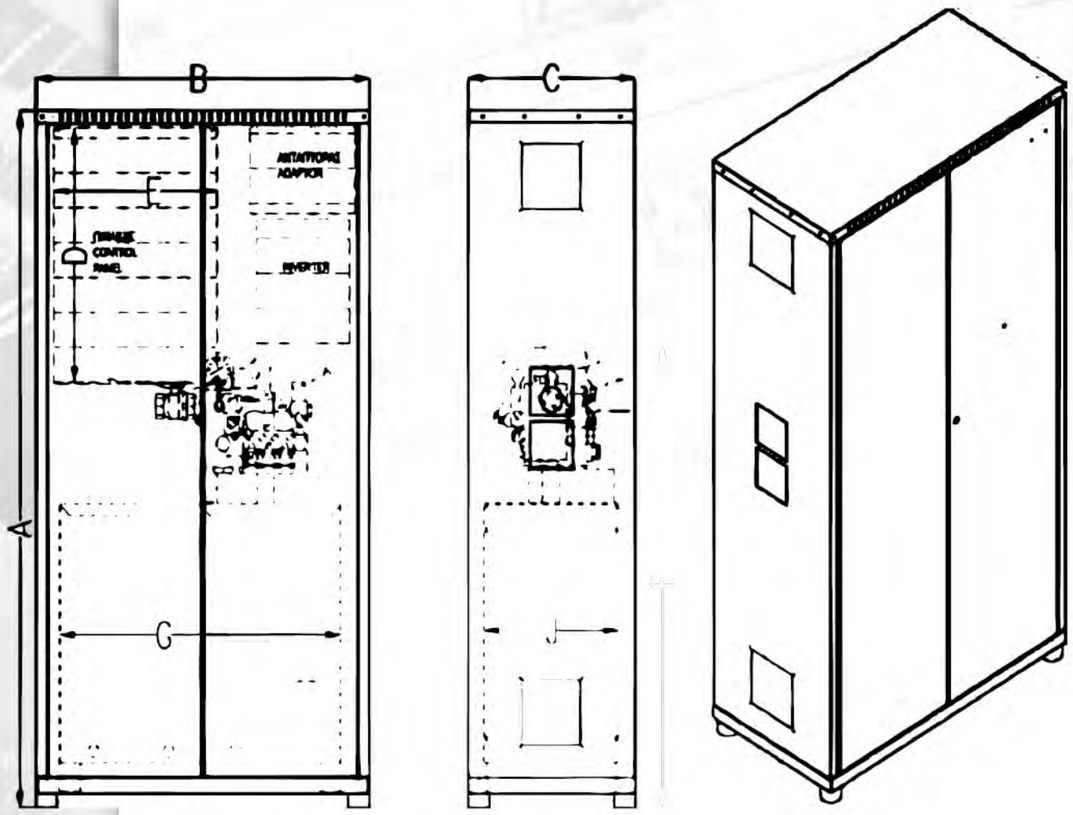
www.metronsa.eu

Lift Solution	
Load/Capacity	Up to 300 kgr (4 persons)
Maximum Speed	0,5 m/sec
Maximum travel	10 m
Maximum floor served	4
Valve	Blain
Door Type	Metron Doors
Cabin Type	Metron Cabins
Low Pit	200mm
Low Headroom	2500mm

Machine Directive	
Load/Capacity	Up to 300 kgr (4persons)
Maximum Speed	0.15 m/sec
Maximum travel	9 m
Maximum floor served	4
Door Type	Metron Doors
Cabin Type	Metron Cabins
Low Pit	100 mm
Low Headroom	2600 mm

* Single Phase solution is available

Cabinet for Hydraulic Machine
Roomless Solution

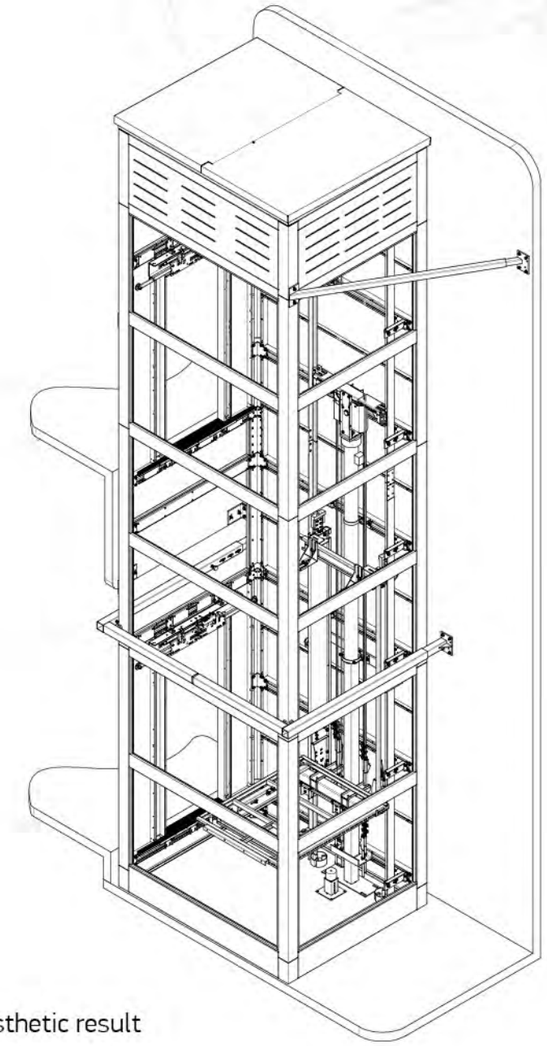


Cabinet Type	Cabinet Dimensions (mm)			Oil Tank Type	Max Motor Power (KW)	Max Pump Flow (L/min)	Max Work Capacity (L)	Oil Capacity (L)		Oil Tank Dimensions (mm)				Control Panel Dimensions (mm)	
	A	B	C					Vmin	Vmax	F Valve 3/4	F Metron Valve	G	J	D	E
ER2	1500	800	400	ER2-70	6	75	70	40	115	870	990	689	320	550	390

Technical specifications are subject to change without notice.

Metallic Shaft

Metron
Engineering for Life



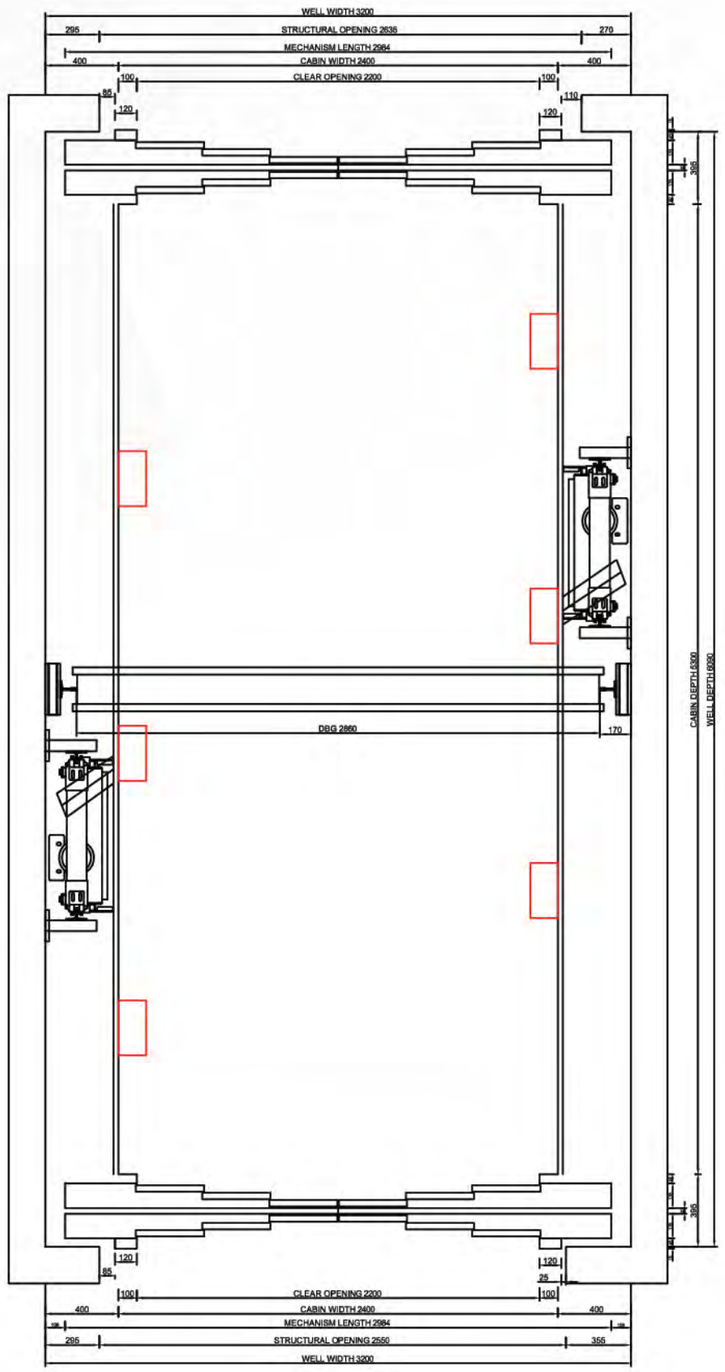
- Top class aesthetic result
- Powder-coating in the range of Metron Colours Collection
- Variety of external facing: metal sheet painted in Metron Colours or glass
- Full technical documentation
- Suitable for indoor and outdoor installation
- Compatible with every Metron's complete system of hydraulic and MRL traction lifts
- Suitable for elevators up to 4 stops and 8 persons
- Production capability in any width-depth combination

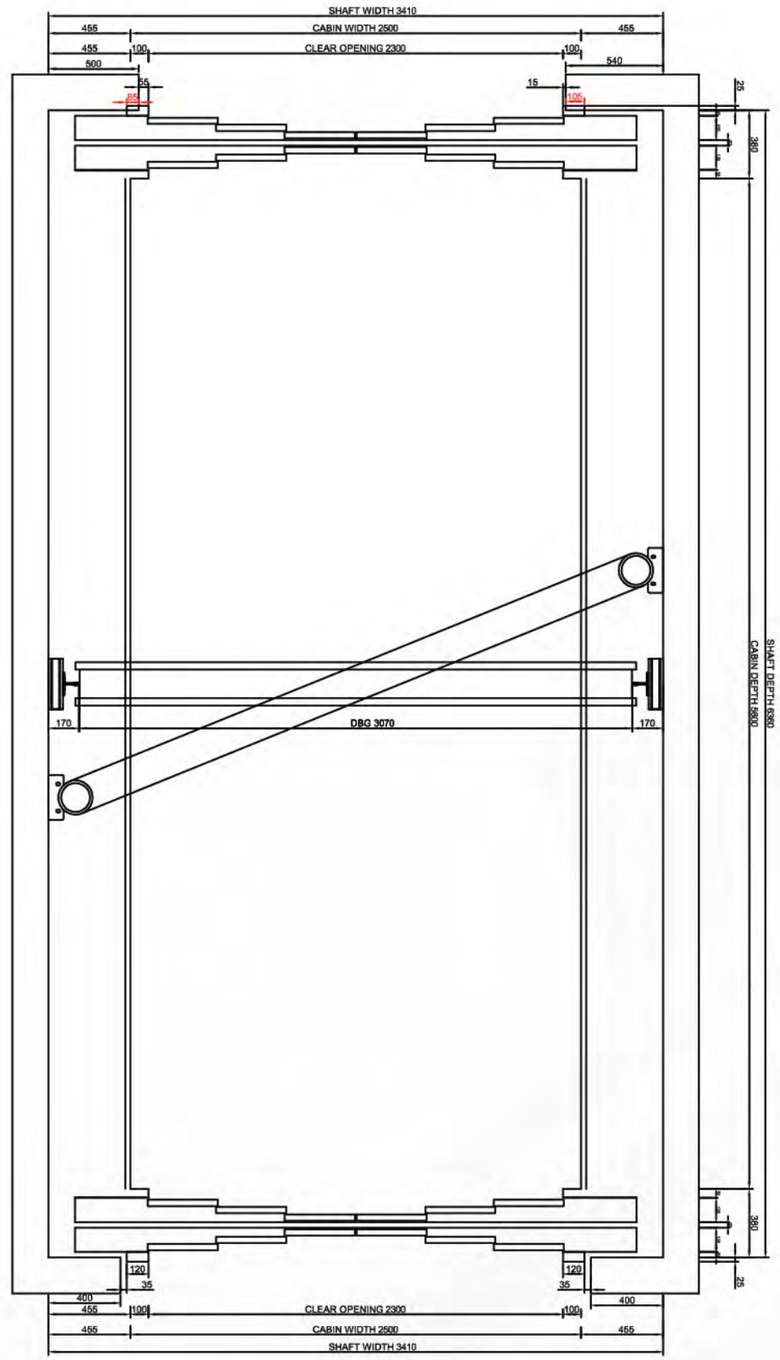
Cargo and Car Lifts

A cargo lift should be characterized by high durability and functionality, even under the most difficult circumstances. This kind of elevators are usually installed either as parking systems or in industrial facilities for heavy loads' transfer.

Specifications

Load/Capacity	Up to 5.000 kgr
Maximum Speed	0,63 m/sec
Maximum travel	18 m
Maximum floor served	7
Valve	Blain
Door Type	Metron Doors
Cabin Type	Metron Cabins

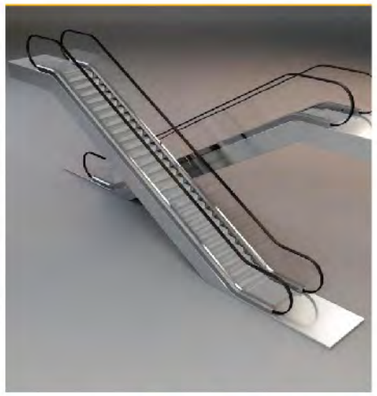

WELL WIDTH 3200
STRUCTURAL OPENING 2636
MECHANISM LENGTH 2984
CABIN WIDTH 2400
CLEAR OPENING 2200
DBG 2860
CABIN DEPTH 5300
WELL DEPTH 6930
CLEAR OPENING 2200
CABIN WIDTH 2400
MECHANISM LENGTH 2984
STRUCTURAL OPENING 2550
WELL WIDTH 3200


SHAFT WIDTH 3410
CABIN WIDTH 2500
CLEAR OPENING 2300
DBG 3070
SHAFT DEPTH 6360
CABIN DEPTH 5600
CLEAR OPENING 2300
CABIN WIDTH 2500
SHAFT WIDTH 3410

Escalators and Moving Walks

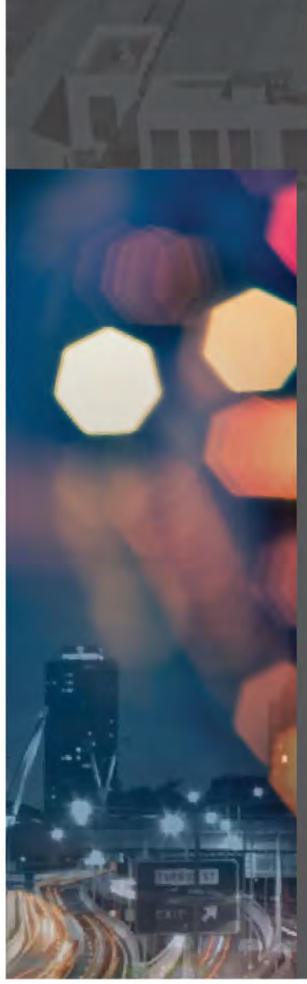
www.metronsa.eu

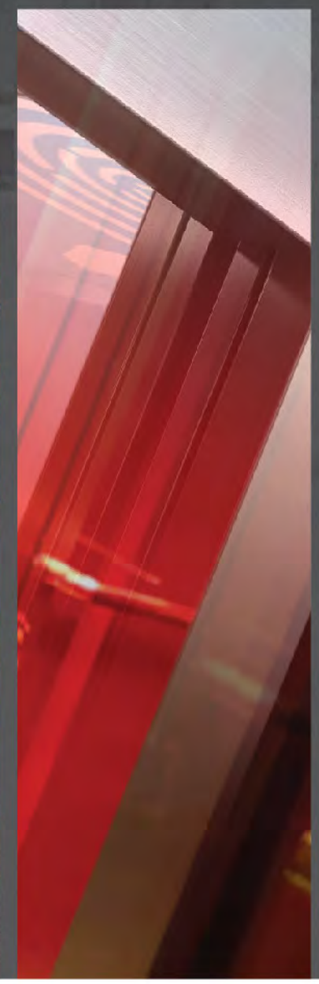
Metron responding to the increasing needs of its customers, has developed a complete series of escalators and moving walks. Our range can meet the requirements of the most demanding project around the world both in a technical and in an aesthetic way.

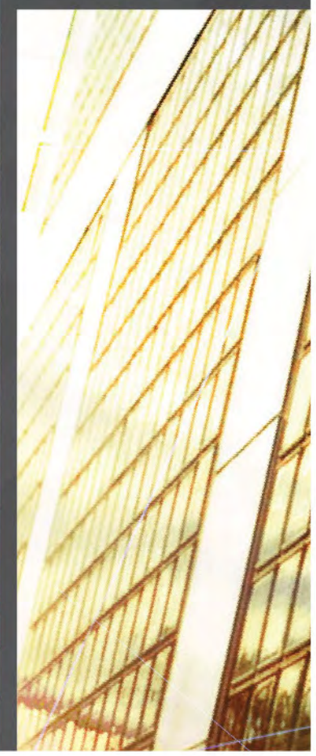


Metron | Cabins

City Life | Life Desire | Pure Life | Life Shine



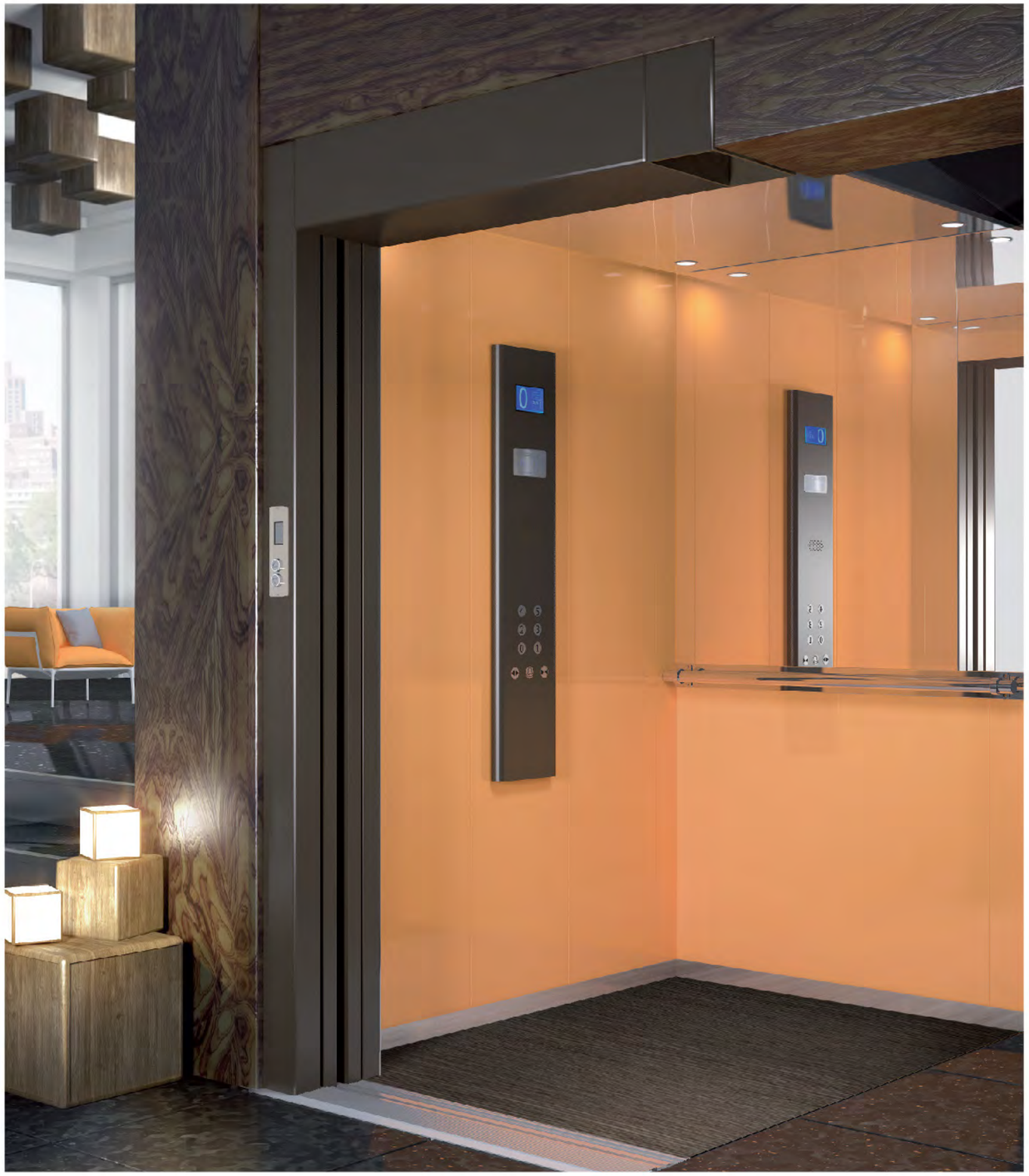




City Life

Cabins from City Life series constitute an ideal solution for those who want to combine materials and colours at the best possible value. Every City Life cabin is a robust structure, which ensures durability over time, while it is available in every colour combination from Metron Colours Collection.

Colour Up



1. Tempo HB
2. Silva HB
3. Silva Inox

1
2 3

Life Desire

Life Desire cabins are the “diamonds” of Metron cabins series. Absolutely exceptional and absolutely characteristic cabins that put into practice Metron’s declaration from the first moment it entered the market in 1995. Cabins that make the surrounding environment more beautiful, while at the same time they are completely affordable solutions.

Prestige

Luminous

Colour Up Deluxe

1. Master
2. Twist
3. Interno

1

2 3

Pure Life

Metron series of panoramic cabins Pure Life catches the eye wherever it is installed. Cabins of high aesthetics and durability that travel their passengers through space.

Panoramic

Life Shine

Metron cabins from the Life Shine series are here to change your mind about inox cabins. Enough with “cold” cabins that are nothing more than metallic boxes moving up and down. A Metron Life Shine cabin is characterized by distinctive aesthetics and incomparable quality.

Essence

Elite

Illusion

Tempo Inox

Samples

Metron
Collection

Floors

Tiles

- Cappuccino Beige
- Vivaldi Grey
- Cappuccino Brown
- Off-white Cult
- Super White Cloud
- Taxo Grey
- Super Black
- Montreal Beige
- Lounge Grey
- Jasper Ivory
- Elements Blanco

Laminate

- Alpine Oak
- Swedish Pine
- Grey Pine
- Tuscany Walnut
- Irish Oak
- Wenge

Elastic Floors

- Anthracite
- Beige
- Rubber Black
- Rubber Grey

Metron Colours Collection

Powder Coated Colours

Sable

- Brown
- Beige
- Ambre Gold
- Fumée
- Moca
- Starlight Grey
- Rouge
- Anthracite
- Sanaga Green

Gloss

- Oyster White
- Pastel Yellow
- Pastel Green
- Turquoise
- Pastel Orange

Sublimation - Wooden Effect

- gold oak/1335
- dark walnut/1121
- brushed cherry/1437
- gold walnut/1123
- red walnut/1435
- chestnut/1114

Wooden Facings

Mat

- Acacia
- Sand Zebrano
- Fino Bronze
- Applewood Mat
- Driftwood
- Cherry Mat
- Two-toned Zebrano
- Wenge
- Walnut

Glossy

- Pearl
- Applewood Glossy
- Sherbet
- Cherry Glossy
- Snow

Glass

- G1
- G2
- G3
- G4
- G5
- G6
- G7
- G8
- G9
- G10
- G11
- G12

Handrails

- Metron st/st
- Metron st/st Wood Facing
- Line
- Round 1
- Round 2

Ceilings

Basic

- Arctos
- Breeze
- Classic
- Pond

3D

- 01
- 02
- 03

Line

- 01
- 02
- 03

Minimal

- 01
- 02
- 03

Modern

- 01
- 02
- 03
- 04
- 05
- 06

Metron | Lift Door Models

1

2

3

1

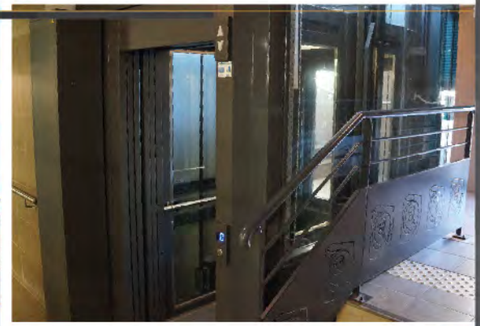
2

3

Metron | References

La Garde

Panoramic Powder Coated Machine Roomless (MRL) Lift



France

La Major - Jardin Vaudoyer

Panoramic Powder Coated Machine Roomless (MRL) Lift

France

City Hall in Szczecinek

External Panoramic Machine Roomless (MRL) Lift

Poland

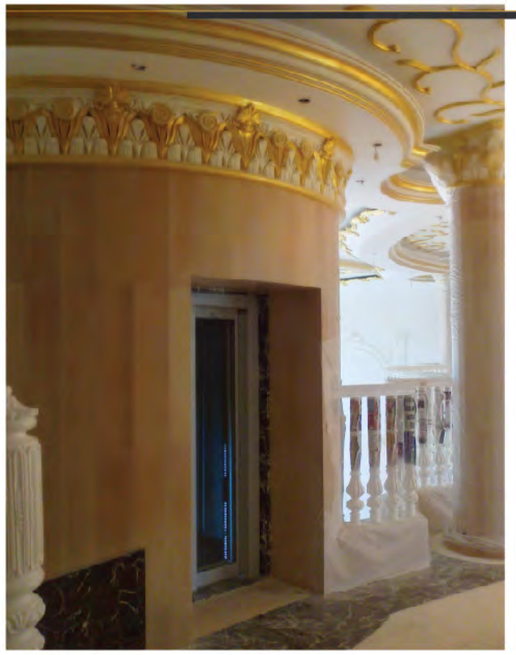
Hotel Santana

Machine Roomless (MRL) Lift

Malta

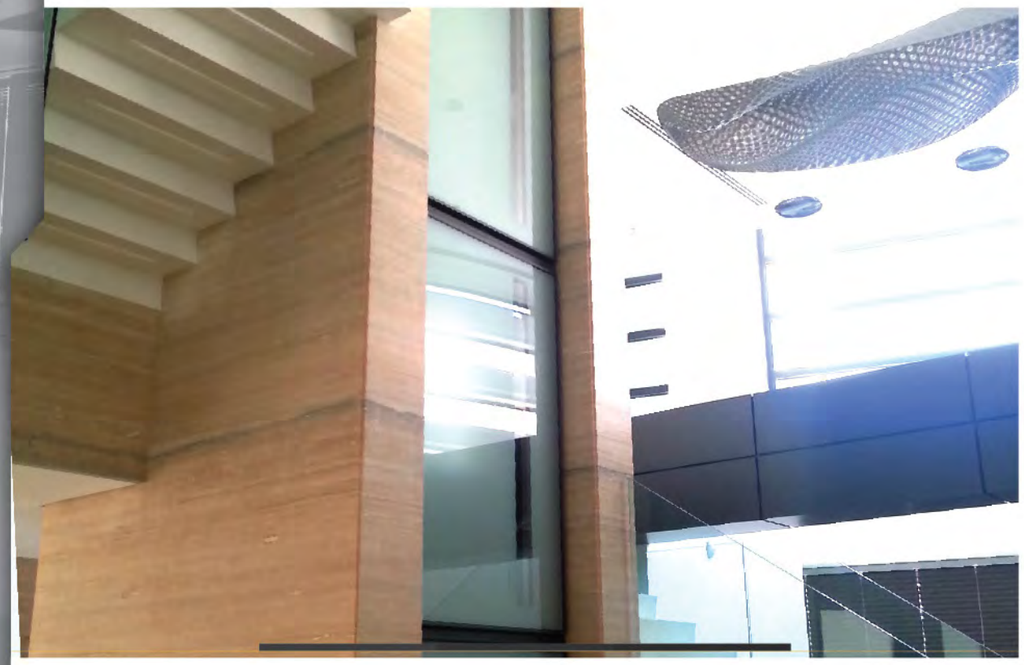
Residential Buildings (Villas)

Residential Hydraulic Lift



Dubai

Residential Building Larnaca



Rasidential Machine Roomless (MRL) Lift

Cyprus

Toplicki Vinogradi

Hydraulic Cargo Lift

Serbia

Andrićgrad

Hydraulic Stainless Steel Panoramic Lift

Bosnia

Hotel Aridolf

Machine Roomless (MRL) Lift

Nigeria

Footbridge
Moskva River

ÔØÔËõÙÁÓÁ ·ÌÂÎÎíÓÙíÒ¯Ì ÓÙÓíÚ ÓÙ·ËÏÔ"Ú ÏÂÙÂØÈ,íÌ·ÓÁÚ ÙÔí ÙÂÎÂˆÂÒÈÍ ÏÂ ÙÔÌ ÙÂÎÂíÙ·íÔÌ· ÂíÌ·È ÓÙ· 4,981Ï.(Pico Espejo)

Russia

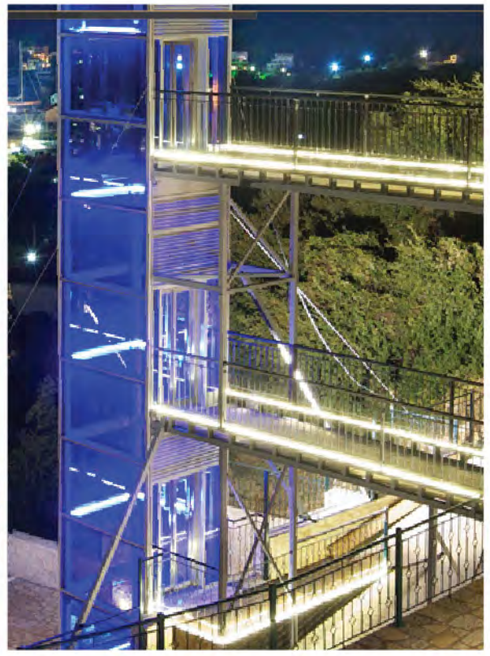
Hotel Liro

Hydraulic Lift

Albania

Bay Palace Kefalonia

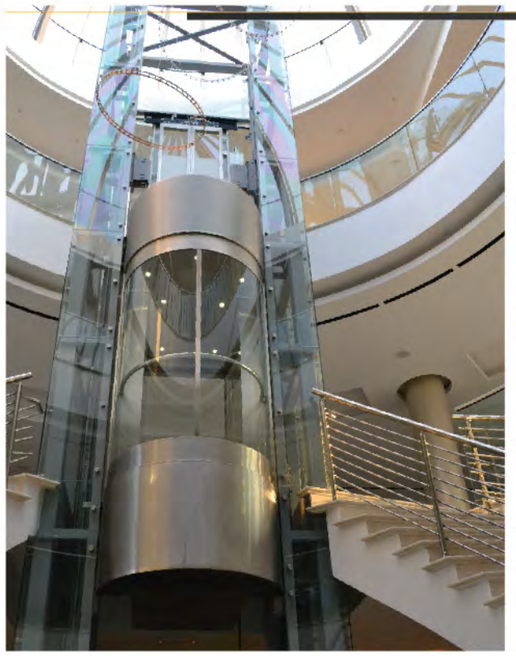
External Hydraulic Stainless Steel Lift



Greece

Holiday Village
Rhodes

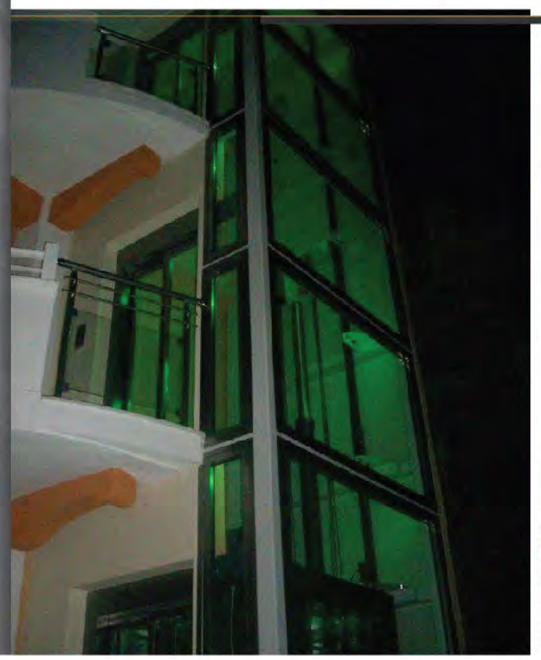
Panoramic Stainless Steel Machine Roomless (MRL) Lift



Greece

Hotel Zakinthos

Hydraulic Panoramic

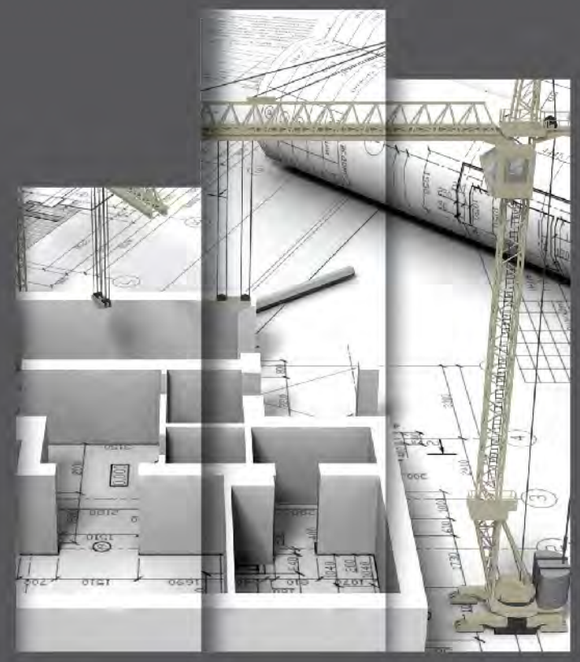


Greece

Ag. Paraskevi
Athens

2 Machine Roomless (MRL) Lifts

Greece



Ongoing Projects

Metron
Engineering for Life

Tyumen

81 Machine Roomless (MRL) Lifts

Russia

Teleferico Merida

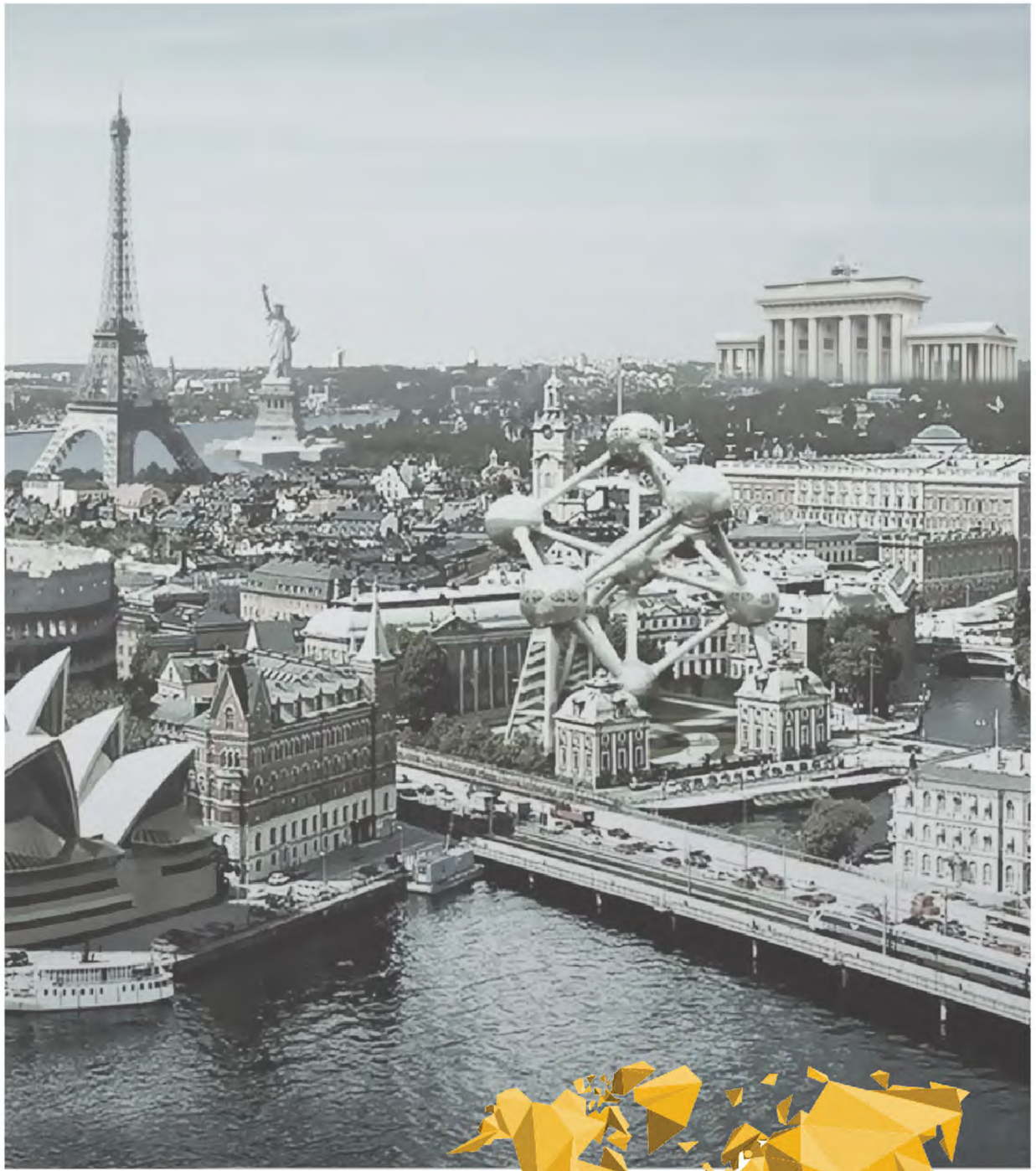
Venezuela

6 Hydraulic Lifts, the last on at 5.000 m

Metron | Engineering for Life

www.metronsa.eu

ALUMIL Group



Since the beginning Metron paid particular attention to the exports, initially in Balkan and European countries and steadily in Russia, the Arabian Gulf, Africa and Latin America.
What differentiated Metron among the competition and still is the main lever for further development, is the reliability in every aspect. In terms of company, in terms of people and product.
Today, Metron due to the dedication and perpetual effort of its employees around the world is present in 42 countries, in 4 different continents.

However, we do not mention just a number, what really matters the most is the trust and relation built with our partners in these countries. These honest and long-term collaborations secure both Metron's competitiveness and our partners' globally.

mpk ADV

Metron | Engineering for Life

www.metronsa.eu

ALUMIL Group

www.facebook.com/EngineeringForLife

twitter.com/metronsa

www.linkedin.com/company/metron-sa

info@metronsa.gr