TECHNO

HELP LINE : +91-079-2584 0266
TOLL FREE LINE : 1800-102-5222

TECHNO
TECHNO INDUSTRIES PVT. LTD.
ELEVATOR DIVISION


Registered Office & Works
**TECHNO INDUSTRIES PVT. LTD.**
Plot No. 5002, Phase IV G.I.D.C, Vatva,
Ahmedabad - 382 445 Gujarat - INDIA.
Phone : +91-079-2584 0266
Email : info@technoelevators.com
Website : http://www.technoelevators.com

Marketing & Service Office
**TECHNO INDUSTRIES PVT. LTD.**
3rd Floor, Techno House, B/h Claris Tower,
Opp. Sangita Complex, Nr. Parimal Crossing,
Ambawadi, Ahmedabad - 380006 Gujarat - INDIA.

Nepal Distributor
**NEPAL LIFTS PVT. LTD.**
Khasibazar - 14, Kathmandu, Nepal.
Mr. NIRAJ SHRIVASTAV
Mobile : 977-9851038776
Office : 977-1-4031520 / 4031722
Email : liftniraj2012@gmail.com
Website : nepallifts.com


AN ISO 9001/14001/45001

CE

# TECHNO

always step
ahead in technology.

## INDUSTRIAL ELEVATOR SOLUTION

FLAME PROOF / DUST PROOF


AN ISO 9001/14001/45001


CE

TECHNO

# 110000

SQUARE FEET IS THE TOTAL BUILT-UP AREA OF OUR ELEVATOR FACTORY

AN ISO 9001/14001/45001

CE

# About Us

An ISO 9001 : 2015 Certified Company

**SINCE : 1994**

ELEVATOR DIVISION

Techno Industries Pvt. Ltd. Established in 1994 is one of the leading engineering companies in India. Our Head Office is situated at Ahmedabad with branches across India. Our service network "Techno Care" Stretches across India along with Nepal, Bangladesh and Middle East.

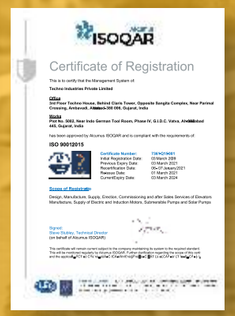
Techno has bagged 2 national awards for its achievement in R&D. With engineering being its core strength, the company has been able to successfully expand its product portfolio to meet with customer requirements across various segments including elevators, motors, pump, parking systems and escalators amongst others.

Behind the company's success are over 800 hardworking employees lead by a dynamic management team consisting of youthful energy combined with years of industry experience and knowledge.

**Our objective is to provide quality solutions at affordable prices.**

TECHNO







MORE THAN

**21000+**

ELEVATORS INSTALLED

# TECHNO ELEVATOR DIVISION

Techno industries started its Elevator division in 1994 with an aim to give customers an option to get high performance quality products at competitive prices. Since then we have successfully installed over 21,000 elevators across India.

We specialize in designing and installing non standard fully customized elevators and have an in house production capacity of over 3000 elevators per annum. Consequently, the company has been able to expand this division exponentially.

Techno also has a unique advantage of in house manufacturing of all major parts essential to the performance of the elevator, including machines, electric panels, header and door, etc. We also individually sell these parts to over 300 companies across Asia. Our team of experts ,technicians and professionals work round the clock to provide 24/7 customer service.



## OUR ELEVATOR PRODUCTS

- PASSENGER LIFT
- PANORAMIC LIFT
- HOSPITAL LIFT
- HOME LIFT
- GOODS LIFT
- HYDRAULIC ELEVATORS
- MRL ELEVATORS
- DUMBWAITER
- FLAME PROOF GOODS CUM PASSANGER ELEVATOR
- FIRE FIGHTING PUMP WITH FLP MOTOR

**WHENEVER IT COMES TO ELEVATORS ONE NAME MEANS QUALITY IN ANY LANGUAGE TECHNO**

## **GOODS** ELEVATOR

Techno has been successful in implementing its technical expertise to install over 1200 heavy goods elevators as per customer requirement. We have completed prestigious customized jobs in record time, including installation of 16 MT elevator, 4 meter opening auto door and other Non-Standard elevator requirements. We are able to exceed safety standards and provide an all-round solution due to our in house design team and world renowned software digipara.

**LOAD CAPACITY 500 TO 16000 kgs.**



## OUR SERVICE IS **YOUR ADVANTAGE**

TECHNO

- **Techno Elevator**:
  A guarantee for quality, from the new installation through service all the way to modernisation
- Only an installation maintained in line with accepted technical principles guarantees high reliability; production outages mean high costs
- More than **21,000+ installations** under maintenance
- Tight service network with full spare parts supply coverage and at fair terms and conditions
- Hotline: 3 languages / 24 hours / 7 days / 365 days
- Reliable remote monitoring of the elevator systems via Tele service in 3 languages
- Permanent trained and qualified maintenance teams
- Increasing deployment of elaborate IT solutions to enhance your satisfaction and efficiency

### SPECIAL FEATURE

- SOLUTIONS AVAILABLE IN MRL, GEARED AND HYDRAULIC
- DUST AND WATER PROOF OPTIONS AVAILABLE
- AUTO LEVELING FOR SMOOTH MOVEMENT
- REMOTE CONTROL DOOR OPERATIONS
- DOOR OPENING UPTO 4 METERS
- AC
- FIRE PROOF / SAND PROOF / BIRD PROOF
- RANGE FROM - 1 TO 16 MT
- CUSTOMIZED CABIN

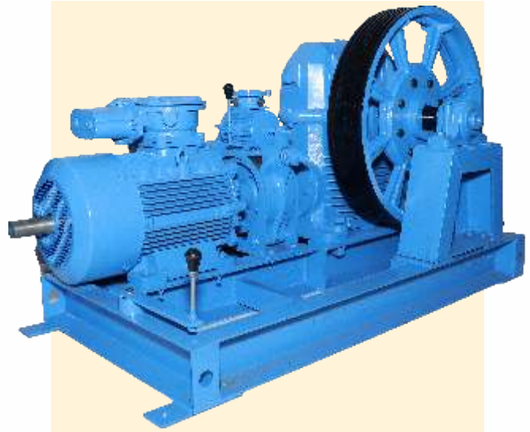
# PRODUCT BENEFITS FACT SHEET FOR **INDUSTRIAL ELEVATORS**

### NEXT LEVEL SAFETY

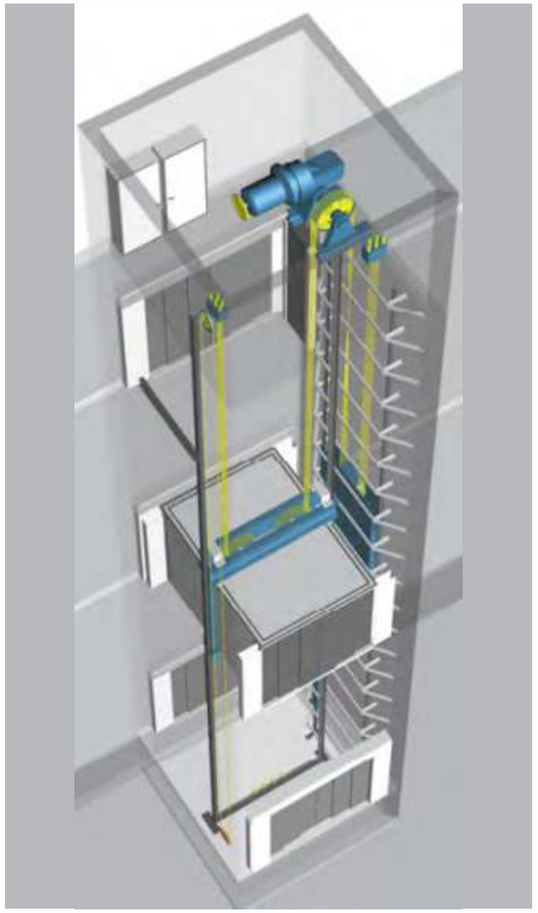
- Systems correspond to DIN EN 81-1: 1998+A3, with CE marking.
- Precise stops for simple loading and unloading also of high loads.
- Safe deployment in areas with higher risk for the type of protection (for ex. IP54) or in hazardous zones in partially or completely explosion proof version.

### NEXT LEVEL FLEXIBILITY

- In line with the requirements, the matching elevator technology is selected from the broad and flexible range of Techno products and adapted to the increased enclosure protection class.
- Industrial elevators can be integrated economically into individual and diverse transport and logistics tasks, and can even become integral constituent parts of production processes.



FLP - TRACTION MACHINE



### NEXT LEVEL ECONOMIC EFFICIENCY

- Worldwide presence and local service locations with short response times.
- Service hotline directly to the manufac-turer's plant in seven languages.
- Long-term and fast spare part availability.

### NEXT LEVEL RELIABILITY

- High reliability resulting from the inclusion of proven components.
- The latest control system technology and use of only high-quality materials.

### NEXT LEVEL QUALITY

- The inclusion of resilient technology with rugged and solid equipment for operation under extreme stresses.
- Special corrosion protection ensures a long service life even under demanding ambient conditions.

### INDUSTRIAL ELEVATORS

In the environment of industrial systems, elevators are exposed to particularly high stresses. They are also frequently an indispensable means of conveyance and directly or indirectly integrated into production processes. The aspects of ruggedness and reliability, but also of economy, are of outstanding importance.

Under hazardous conditions with require-ments for higher types of protection, for example deployment in cement works, oil and gas refinery systems, the require-ments increase yet again. The decades of experience in the development, project planning, installation and maintenance of such complex systems enable Techno as a partner to provide the necessary safety for the most demanding customers that operate worldwide.



# **OPTIMIZED** TO YOUR REQUIREMENTS & **CLASSIFICATIONS**

TECHNO

### PROTECTION- AGAINST WHAT?

In many branches of industry, such as cement manufacturing, crude oil and natural gas production, in mining and many other branches of industry, gases, vapours or sprays escape during the manufacture, processing, transport and storage of flammable substances. In many processes, above all in the foodstuffs industry, flammable dusts are also generated. These gases, vapours, sprays and dusts hamper the workflow and, in the worst case, mixed with the oxygen in the air, form an explosive atmosphere.

If this atmosphere is ignited, explosions occur that can lead to severe personal injury and extensive damage to property. To avoid the danger of explosions, protec-tive regulations in the form of laws, ordinances and standards have been developed in most countries to ensure a high safety level. The design, construction as well as all processes during the manufacture of our elevator systems have been rigorously conceived to comply with the strict requirements with regard to failures, accidents or damage.

FLP - INSPECTION BOX

| PROTECTION CLASSES | PROTECTION REQUIREMENTS | AREAS OF APPLICATION | ADVANTAGES |
|---|---|---|---|
| **IP CODES** (INTERNATIONAL PROTECTION) | AGAINST DUST & WATER | IN CEMENT / MINERAL STEEL INDUSTRY ETC. | SAFE-OPERATING ELEVATORS THANKS TO INCREASE DUST PROOFING & WATER PROOFING |
| **EXPLOSION PROTECTION** (PARTIAL / FULL EX) | AGAINST FLAMMABLE GASES & DUST | IN PETROCHEMICAL, CHEMICAL / GAS INDUSTRY & IN POWER STATIONS | REDUCED DANGER OF EXPLOSION AS A RESULT OF CERTIFIED COMPO-NENTS AS WELL AS SUIT-ABLE NON-ELECTRICAL MATERIALS. FOR EXAMPLE INTRINSICALLY SAFE ELECTRIC CIRCUITS, PRESSURE-PROOF ENCAPSULATION, STAINLESS STEEL ETC. |
| **CORROSION PROTECTION** | AGAINST CORROSIVE ENVIRONMENTS (FOR EXAMPLE NITRATE, SEAWATER ETC.) | CHEMICALS INDUSTRY, SITES CLOSE TO THE COAST | LONG SERVICE LIFE OF THE ELEVATORS THANKS TO MULTI-LAYER PAINTED OR POWDERCOATED SURFACES |

# ELEVATORS - **IP54**

**TYPE OF PROTECTION IN COMPLIANCE WITH DIN EN 60529 / DIN VDE 0470 / IEC 529**

In industrial plant engineering and construction, IP54 is a typical requirement.
An overview of the composition of the IP code (International Protection Code) is provided below.

| FIRST CODE NUMBER | MEANING | |
|---|---|---|
| **DIN EN 60529** | **PROTECTION AGAINST FOREIGN BODIES** | **PROTECTION AGAINST CONTACT** |
| IP 0X | No protection | No protection |
| IP 1X | Protected against solid foreign bodies with Ø > 50 mm | Protected against access with the back of the hand |
| IP 2X | Protected against solid foreign bodies with Ø> 12.5 mm | Protected against access with a finger |
| IP 3X | Protected against solid foreign bodies with Ø > 2.5 mm | Protected against access with a tool |
| IP 4X | Protected against solid foreign bodies with Ø > 1.0 mm | Protected against access with a wire |
| IP 5X | Protected against dust of a damaging quantity | Complete protection against contact |
| IP 6X | Dust proof | Complete protection against contact |

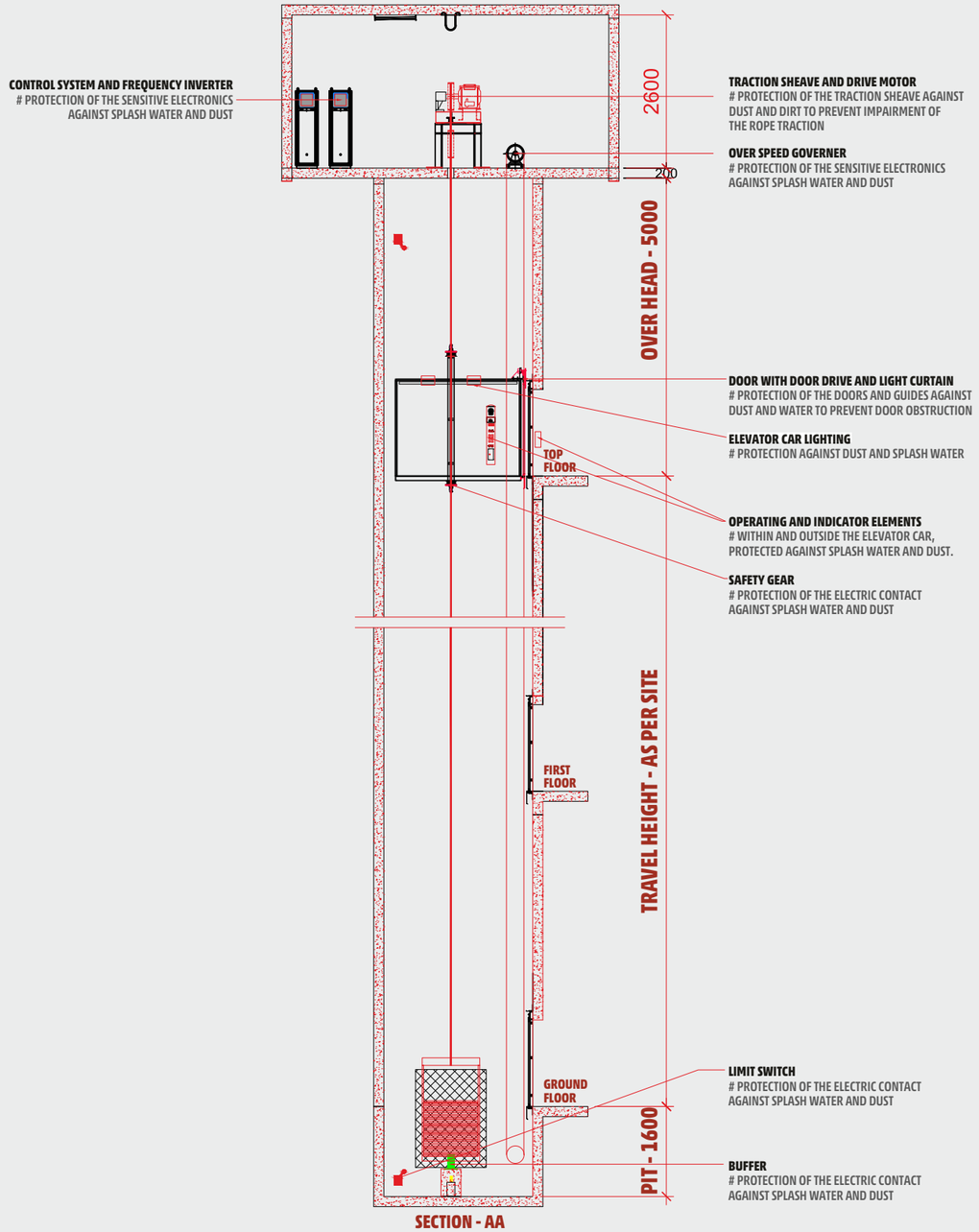
| SECOND CODE NUMBER | MEANING |
|---|---|
| **DIN EN 60529** | **PROTECTION AGAINST WATER** |
| IP X0 | No protection |
| IP X1 | Protected against vertically falling water droplets |
| IP X2 | Protected against falling water droplets, even if the housing is inclined by up to 15° |
| IP X3 | Protected against falling spray water, even if the housing is inclined by up to 60° |
| IP X4 | Protection against splash water on all sides |
| IP X5 | Protected against water jets (Nozzle) from any angle |
| IP X6 | Protected against strong water jets from any angle |
| IP X7 | Protected against temporary immersion |
| IP X8 | Protected against permanent immersion |



Specifications in compliance with DIN EN 605296 (VDE0470-1):2000-09 Types of protection by housing (IPcode) (IEC60529:1989+A1:1999).



**ELEVATOR SYSTEM WITH PROTECTED COMPONENTS CORRESPONDING TO IP5**



# TYPICAL AREAS OF **APPLICATION IN INDUSTRY**

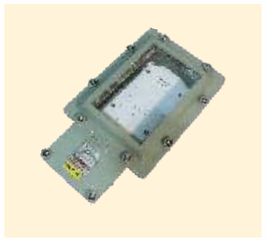

CEMENT INDUSTRY


CHEMICAL INDUSTRY

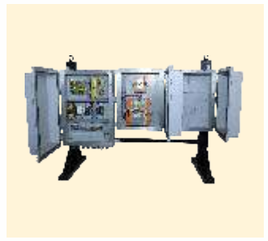
UREA-AMONIA INDUSTRY

## EXAMPLES OF EXPLOSION-PROOF VERSIONS OF COMPONENTS


FLP - LIMIT SWITCH LEVER TYPE


FLP - LIGHT


FLP - CONTROL PANEL (OUTER)


FLP - CONTROL PANEL (INNER)


FLP - FLP GLAND


FLP - PLUG SOCKET WITH SWITCH


FLP - SHAFT LIGHT


FLP - TELEPHONE



# FUNDAMENTAL PRINCIPLE OF E**XPLOSIONPROTECTION**

TECHNO

## FUNDAMENTAL PRINCIPLE OF EXPLOSION PROTECTION

Avoidance of the simultaneous occurrence of
- Flammable substances in dangerous amounts→ Gas, Steam, Spray, Dust
- Oxygen (Air)
- Ignition sources→ Energy in the form of heat or sparks

## EC DIRECTIVE 99/92/EC (ATEX 137)-DIRECTIVE FOR THE OPERATOR (EMPLOYER)

- Concerns the installation operator
- Assessment of the explosion risks by means of risk analysis
- Classification of the potentially explosive areas in zones (see table below)
- Creation of a concept for explosion protection→ explosion protection document
- Instruction that concerns the minimum regulations for the improvement of health protection and the protection of employees who can be endangered by explosive atmospheres.
- Minimum regulations; National regulations can be more extensive.
- Specification of measures for the protection of employees.

## EC DIRECTIVE 94/9/EC (ATEX 95)-DIRECTIVE FOR THE MANUFACTURER AND/OR IMPORTER

- Directive is addressed to the manufacturer (or importer)
- Instruction for harmonisation of legal regulations of Member States for the proper use of devices and protection systems in potentially explosive zones
- Regulates placing electrical and non-electrical devices and protection systems on the market in the EU
- Ex systems may only be installed by skilled elevator personnel specially trained for work in ex zones

## EXAMPLES OF EXPLOSION-PROOF VERSIONS OF COMPONENTS


FLP - OVER SPEED GOVERNOR


FLP - CAR JUNCTION BOX


FLP - LIMIT SWITCH ROLLER TYPE

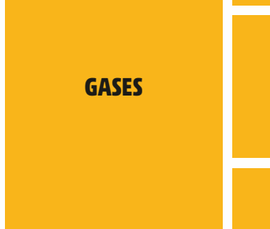
**FIRE FIGHTING PUMP WITH FLP MOTOR**

# INCREASED TYPE OF PROTECTION - **EXPLOSION PROTECTION**

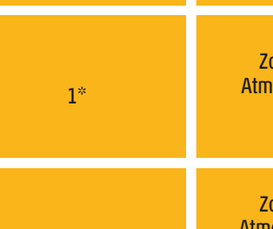
## CLASSIFICATION OF THE POTENTIALLY EXPLOSIVE ZONES - ELEVATORS CAN BE SUPPLIED FOR ZONES 1, 2 AND 22

| ATMOSPHERE | ZONE | DESCRIPTION |
|---|---|---|
| **GASES** | 0* | Zone 0 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Is Continuously Present, Present Over Long Periods Or Frequently Present As A Mixture Of Air And Flammable Gases, Vapours Or Sprays. |
| | 1* | Zone 1 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Can Occasionally Form During Normal Operation As A Mixture Of Air And Flammable Gases, Vapours Or Sprays. |
| | 2* | Zone 2 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Normally Does Not Occur During Normal Operation As A Mixture Of Air And Flammable Gases, Vapours Or Sprays, Or Only Occurs For A Brief Period. |
| **DUSTS** | 20 | Zone 20 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Is Continuously Present, Present Over Long Periods Or Frequently Present In The Form Of A Cloud Of Flammable Dust. |
| | 21 | Zone 21 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Is Occasionally Present In The Form Of A Cloud Of Flammable Dust During Normal Operation. |
| | 22** | Zone 22 Is An Area In Which A Dangerous Potentially Explosive Atmosphere Is Normally Not Present Or Only Briefly Present In The Form Of A Cloud Of Flammable Dust During Normal Operation. |

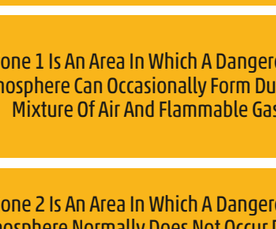
## EXAMPLES OF EXPLOSION-PROOF VERSIONS OF COMPONENTS



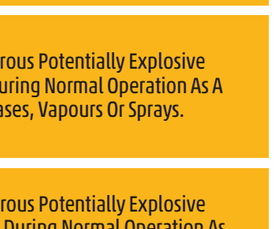
FLP - FIREMAN SWITCH



FLP - FAN



FLP - EMERGENCY STOP



FLP - SFU



INCREASED TYPE OF PROTECTION - **EXPLOSION PROTECTION**

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## EXPLANATION OF THE DEVICE DESIGNATION

| EXAMPLE | EX | II | 2G | Ex | ib | IIB | T3 |
|---|---|---|---|---|---|---|---|
| SEE POINT | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

1) **Explosion Protection Designation** for devices, components and protection systems

2) & 3) **Device Group** And **Device Category**

| DEVICE GROUP | I - MINING | | II - OTHER AREAS | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEVICE CATEGORY | M1 | M2 | 1G | 1D | 2G | 2D | 3G | 3D |
| IN ACCORDANCE WITH EPL* | Ma | Mb | Ga | Da | Gb | Db | Gc | Dc |
| ZONE | | | 0 | 20 | 1 | 21 | 2 | 22 |
| DANGER | | | Continuous, frequent Or over a longer period | | Occasionally | | Rare And Brief | |
| REQUIREMENT | Very High Level Of Safety | High Level Of Safety | Very High Level Of Safety | | High Level Of Safety | | Normal Safety | |

G-Gas, D-Dust,* alternative designation in accordance with IEC/EN 600079-0.

4) **SYMBOL DESIGNATION** if EN 60079 (gases/vapours) and/or IEC/EN 61241 (dusts) are applied

5) **TYPE OF IGNITION PROTECTION** for electrical devices

| TYPE OF PROTECTION | SYMBOL | | ZONE | RE PRESENTATION | NORM |
|---|---|---|---|---|---|
| | STANDARD | ALTERNATIVE | | | |
| INCREASED SAFETY | e | eb | 1 |  | IEC 60079-7, EN 60079-7, ISA 600079-7 |
| PRESSURE-PROOF ENCAPSULATION | d | db | 1 |  | IEC 60079-1, EN 60079-1, ISA 60079-1 |
| OVERPRESSURE ENCAPSULATION | pz | pzc | 2 |  | IEC 60079-2, EN 60079-2, ISA 60079-2 |
| INTRINSIC SAFETY | lb | lb | 1 |  | IEC 60079-11, EN 60079-11, ISA 60079-11 |
| INTRINSIC SAFETY | ic | ic | 2 |  | IEC 60079-11, EN 60079-11, ISA 60079-11 |

# CORROSION PROTECTION FOR OUR INDUSTRIAL ELEVATORS

### 6) EXPLOSIVES GROUP

| FIRE-DAMP ENDANGERED ZONES | | | |
|---|---|---|---|
| GROUP I | METHANE | | |
| **POTENTIAL GAS EXPLOSIVE ZONES** | | | |
| GROUP II | II A | II B | II C |
| | PROPANE | ETHYLENE | HYDROGEN |
| **POTENTIAL DUST EXPLOSIVE ZONES** | | | |
| GROUP III | II A | II B | II C |
| | FLAMMABLE FLAKES | NON-CONDUCTING DUST | CONDUCTING DUST |

### 7) TEMPERATURE CLASS

| ATMOSPHERE | GASES | | | | | | DUSTS |
|---|---|---|---|---|---|---|---|
| CLASS | T1 | T2 | T3 | T4 | T5 | T6 | T... °C |
| TEMPRATURE | 450 °C | 300 °C | 200 °C | 135 °C | 100 °C | 85 °C | f.exam. T 80 °C |

## CORROSION PROTECTION FOR OUR INDUSTRIAL ELEVATORS

| | |
|---|---|
| **AMBIENT CONDITIONS** | Elevator shafts for industrial systems are usually designed as steel constructions with sheet metal facing. Environmental influences, for example rain, dust, chemical reactions of different substances etc., Enter the shaft. Aggressive compounds can arise. |
| **SOLUTION FROM TECHNO** | The requirement for a long service life is suitable protection against aggressive environmental influences. Techno uses multi-layer powder coating industrial versions for steel / steel plates. In addition, Depending on requirements, galvanisation and/or hot-dip galvanisation (duplex system) are used (For example DIN EN ISO 12944). |

## EXAMPLES OF EXPLOSION-PROOF VERSIONS OF COMPONENTS

FLP - LOP

FLP - COP

FLP - JUNCTION BOX

FLP - HOOTER



# CORROSIVITY CATEGORY

TECHNO

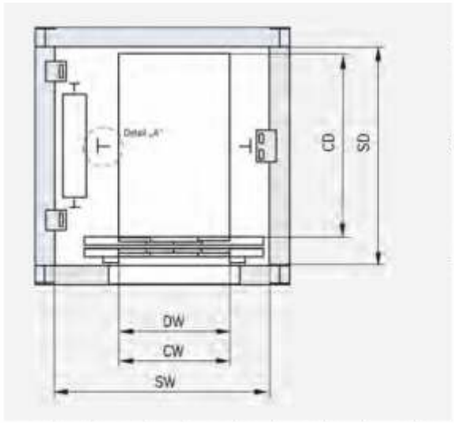
## CORROSIVITY CATEGORY FOR ATMOSPHERIC AMBIENT CONDITIONS IN COMPLIANCE WITH DIN EN ISO 12944-2

| CORROSIVITY CATEGORY | EXAMPLES OF THE ENVIRONMENT | SALT SPRAY TEST COMPLYING WITH ISO 7253 | CONDENSATE TEST COMPLYING WITH ISO 6270 | CORROSION PROTECTION AT TECHNO |
|---|---|---|---|---|
| C1 INSIGNIFICANT | Only Indoors: Heated Buildings With Neutral Atmospheres (for Example Offices, Schools) | | | Priming, Min. 60 µm |
| C2 LOW | Rural Areas With Low Pollution, Unheated Buildings In Which Conden- Sation Can Occur (for Example Warehouses, Sport Halls, Rural Areas) | | 120 hours | Priming, Min. 60 µm |
| C3 MODERATE | Urban And Industrial Atmosphere With Moderate Air Pollution, Coastal Areas With Low Air Salt Content, Production Rooms With High Air Humidity And Slight Air Pollution(for Example Foodstuff Manufacturing, Laundries, Breweries) | 480 hours | 240 hours | 2-Layer System, Approx. 120 µm |
| C4 STRONG | Industrial Areas,coastal Areas With Moderate Air Salt Content (for Example Chemical Plants, Swimming Baths, Boathouses, Cheese Manufacturing, Tunnels, Traffic Intersections) | 720 hours | 480 hours | Sand-Blasting + 2-Layer System, Approx. 140 µm |
| C5-1 VERY STRONG (INDUSTRY) | Industrial Areas With High Air Humidity And Aggressive Atmosphere And Air Pollution, Chlorine Environment (for Example Swimming Baths, Chlorine Plant) | 1,440 hours | 720 hours | Sand-Blasting + 2-Layer System + Partially Galvanised, Approx. 160 µm |
| C5-M VERY STRONG (SEA) | Coastal And Offshore Areas With High Air Salt Content, Buildings With Virtually Continuous Condensation And With Strong Air Pollution (for Example Oil Rigs, Sulphate Plants) | 1,440 hours | 720 hours | 3-Layer System, > 240 µm |

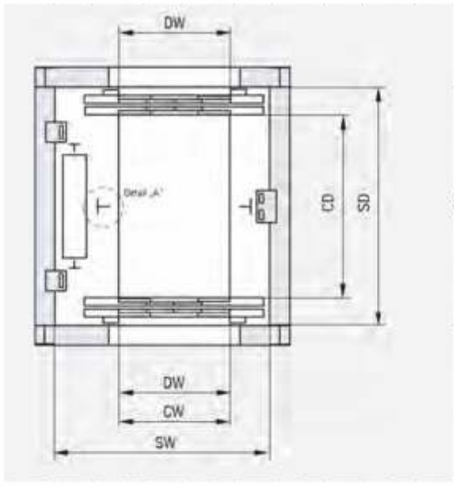
In the case of explosion-proof elevators, a finishing layer of paint (RAL 7046, telegrey, 60-80 µm) with discharge capability is used to avoid static charges.

# PLANNING DRAWINGS : **ELEVATOR SHAFT**

## WITH 1 ENTRANCE




## WITH OPEN THROUGH ENTRANCE



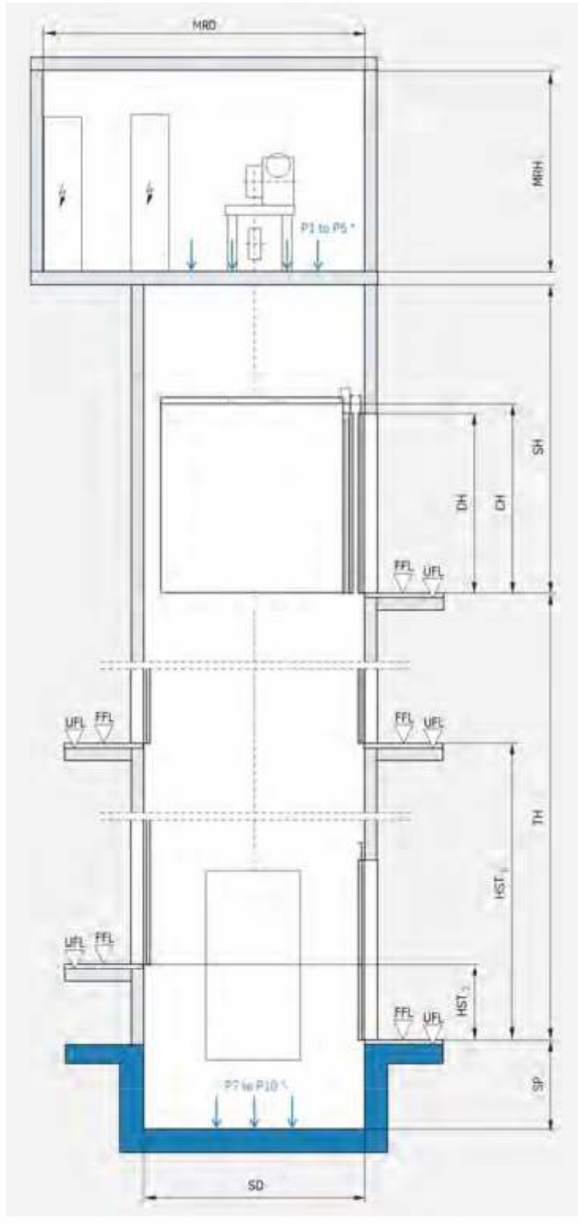

## DOOR TYPES

SIDE-OPENING, DOUBLE-PANEL TELESCOPIC OPENING DOOR (M2T) FOR DOOR WIDTHS DW=800 TO 1400MM

CENTRE-OPENING, FOUR-PANEL TELESCOPIC SLIDING DOOR (M4TZ) FOR DOOR WIDTHS DW>1400 TO 2500MM

THE CENTRE-OPENING, DOUBLE-PANEL SLIDING DOOR IS ALSO AVAILABLE.

## SHAFT VERTICAL SECTION




*THE EXACT POSITIONS OF THE LOAD POINTS IN THE MACHINE ROOM AND IN THE SHAFT PIT ARE ENTERED IN THE GENERAL ARRANGEMENT DRAWING.

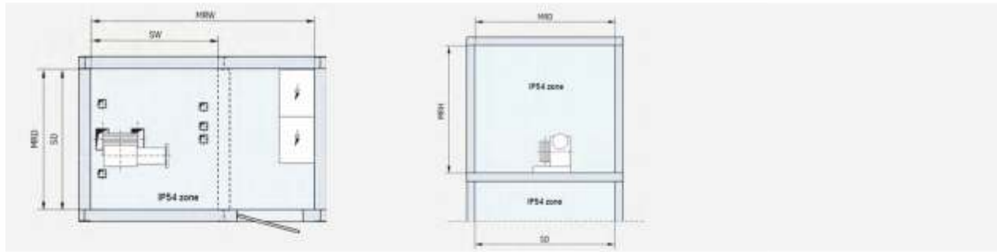
ARRANGEMENT OF THE SHAFT LAYOUT IS ONLY AN EXAMPLE AND IS ALSO POSSIBLE AS MIRROR-INVERTED. KEY FOR THE ABBREVIATIONS USED.



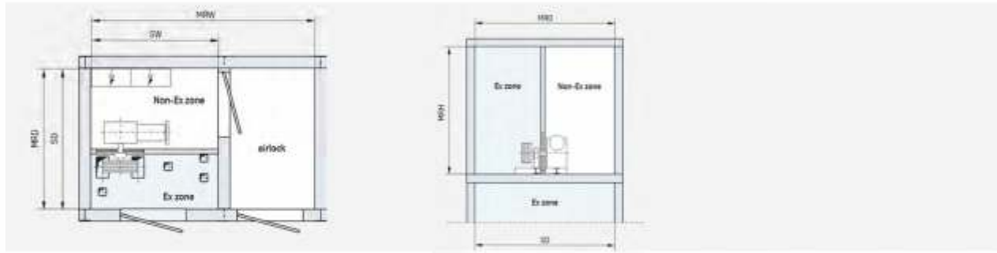
# PLANNING DRAWINGS : **MACHINE ROOM**

TECHNO

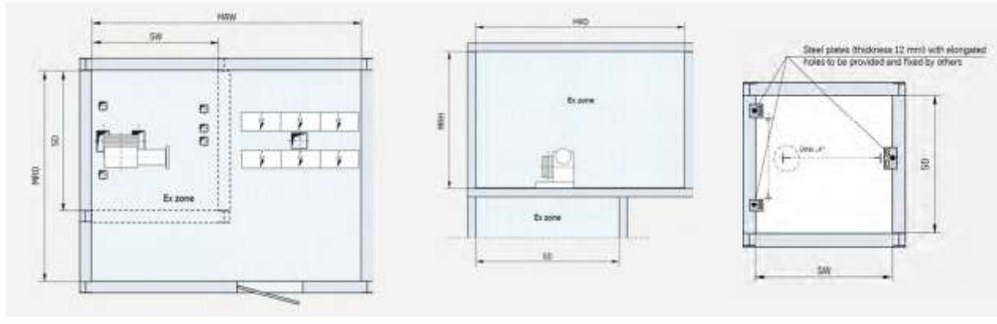
## MACHINE ROOM WITH TYPE OF PROTECTION IP54




## MACHINE ROOM WITH EXPLOSION PROTECTION (PARTIAL Ex)




## MACHINE ROOM WITH EXPLOSION PROTECTION (FULL Ex), ATEX




## CONNECTION OF THE GUIDE RAILS TO THE SHAFT STEEL STRUCTURE

To attach the brackets for the elevator car and counterweight guide rails of the elevator, defined fixing points on the shaft steel structure are required. These fixing points consist of steel plates with elongated holes and must be supplied by the customer and mounted on the shaft steel structure. These fixing points must be positioned precisely according to our lay-out and configured for the maximum guide rail loads.

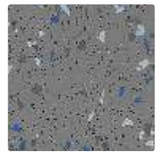
## PLANNING INFORMATION

- Temperature range in the shaft and in the machine room: + 5 °C to + 40 °C (in accordance with EN 81-1)
- Air humidity: 20 °k to 80 % (depending on the temperature)
- Lightning protection measures (corre-sponding to national regulations) are to be supplied by the customer.
- The Model Wiring Directive (MLAR) must be implemented by the customer.
- Power supply 400 V / 50 Hz, mains structure TN-C
- Light system 230 V / 50 Hz
- According to the type of loading and unloading, additional hydraulic locking devices can become necessary.

# PERSONALIZE YOUR OWN LIFT

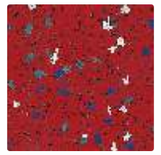
## CHOOSE YOUR **FLOORING**

### PVC MATERIAL


M-1

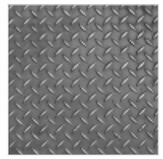

M-2


M-3


M-4

and
many more
option...

## FLOORING **PATTERN**


PATTERN 01
MS CHEQUERED PLATE


PATTERN 02
SS CHEQUERED PLATE


PATTERN 03
ALUMINUM CHEQUERED PLATE

### WALL PANELS


STAINLESS STEEL LINEN


STAINLESS STEEL


GREY WHITE


LIGHT GREY


LIGHT BLUE

- SHEET METAL
- SHOCKPROOF AND CONSTRUCTIVELY REINFORCED
- HIGH-QUALITY POWDER COATING
- ON EX SYSTEMS, ONLY SURFACES WITH DISCHARGE CAPABILITY (NO ALUMINIUM)

### BUMPER RAIL


HARD WOOD


STAINLESS STEEL

and
many more
option...

- FOR PROTECTION OF THE CAR WALLS (CAN BE IN 1 TO 3 ROWS)
- HEIGHT APPROX. 200MM
- ON EX SYSTEMS, ONLY SURFACES WITH DISCHARGE CAPABILITY (NO ALUMINIUM, NO PLASTIC)



## RUGGED ELEVATORS **CAR EQUIPMENT**

TECHNO

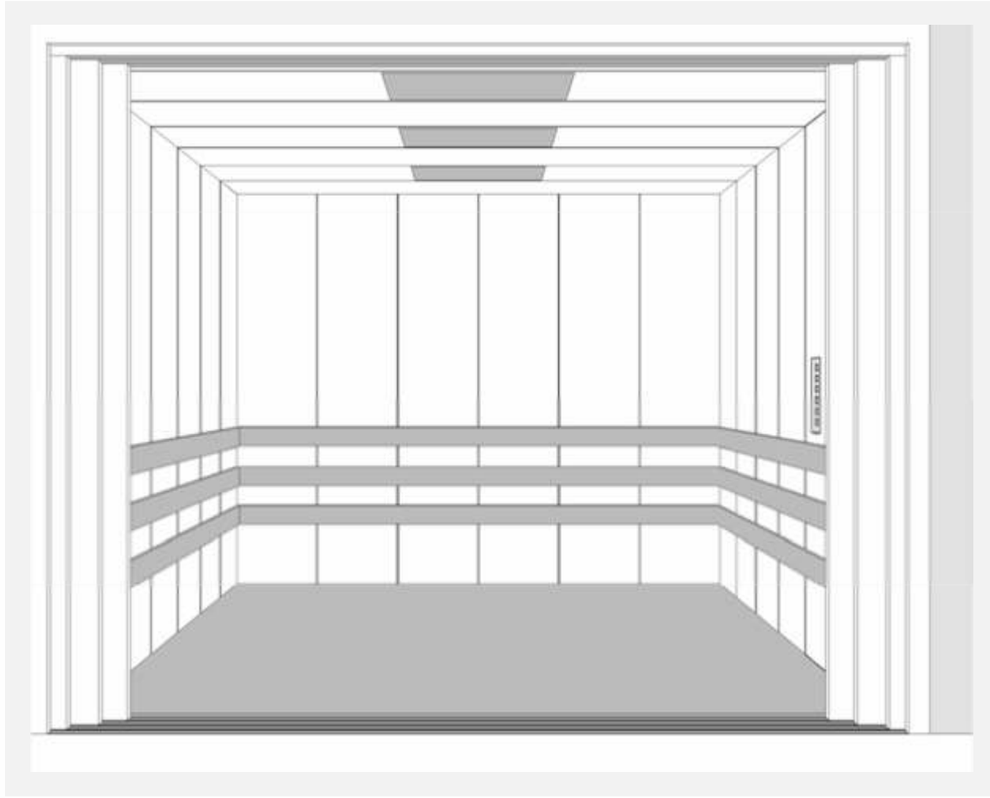
### CAR OPERATING PANEL (CAR PUSH BUTTON BOX)

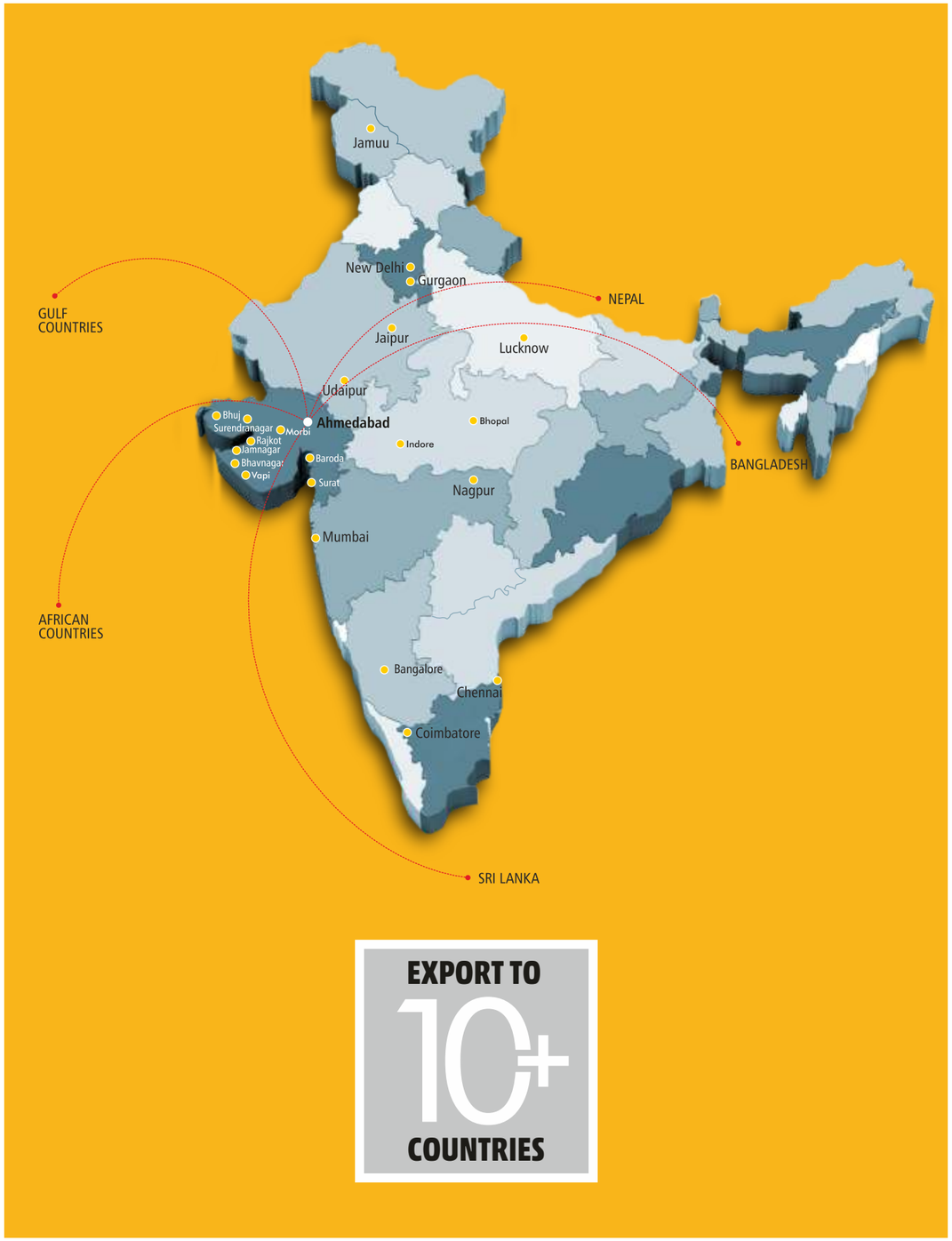

LOP


COP

and
many more
option...

- FLUSH WITH ELEVATOR CAR WALL
- POSITION AND TRAVEL DIRECTION INDICATOR
- ALARM BUTTON AND EMERGENCY CALL SYSTEM






**EXPORT TO**

**10+**

**COUNTRIES**



# OUR CLIENTS