



DATA CENTER SOLUTIONS



DATA CENTER SOLUTIONS

EAE Elektrik is your reliable and innovative manufacturer worldwide offering Busbar, Rack Cabinet, Cable Tray and Support Systems to serve the critical Data Center infrastructure with peace of mind.



CUSTOMER DRIVEN DESIGN

The EAE product family has been designed and manufactured to address the needs of end users. At all design steps, customer's feedback has been considered which guides our design engineers to end-up with more user friendly, modular and wide range products.



LEAN PRODUCTION

To add value for the customers, increase productivity and quality, to manage competition, we strongly adopt "Lean Production". It is an important tool that helps EAE to act fast, create wide product portfolio and reduce manufacturing costs.



INNOVATIVE APPROACH

The EAE product family provides innovative solutions such as Seismic Rack Cabinets and Seismic Support Systems, Particular Aisle and Containment for Cooling and In-aisle Lighting with continuous R&D studies to increase Energy Efficiency and maximize Uptime.

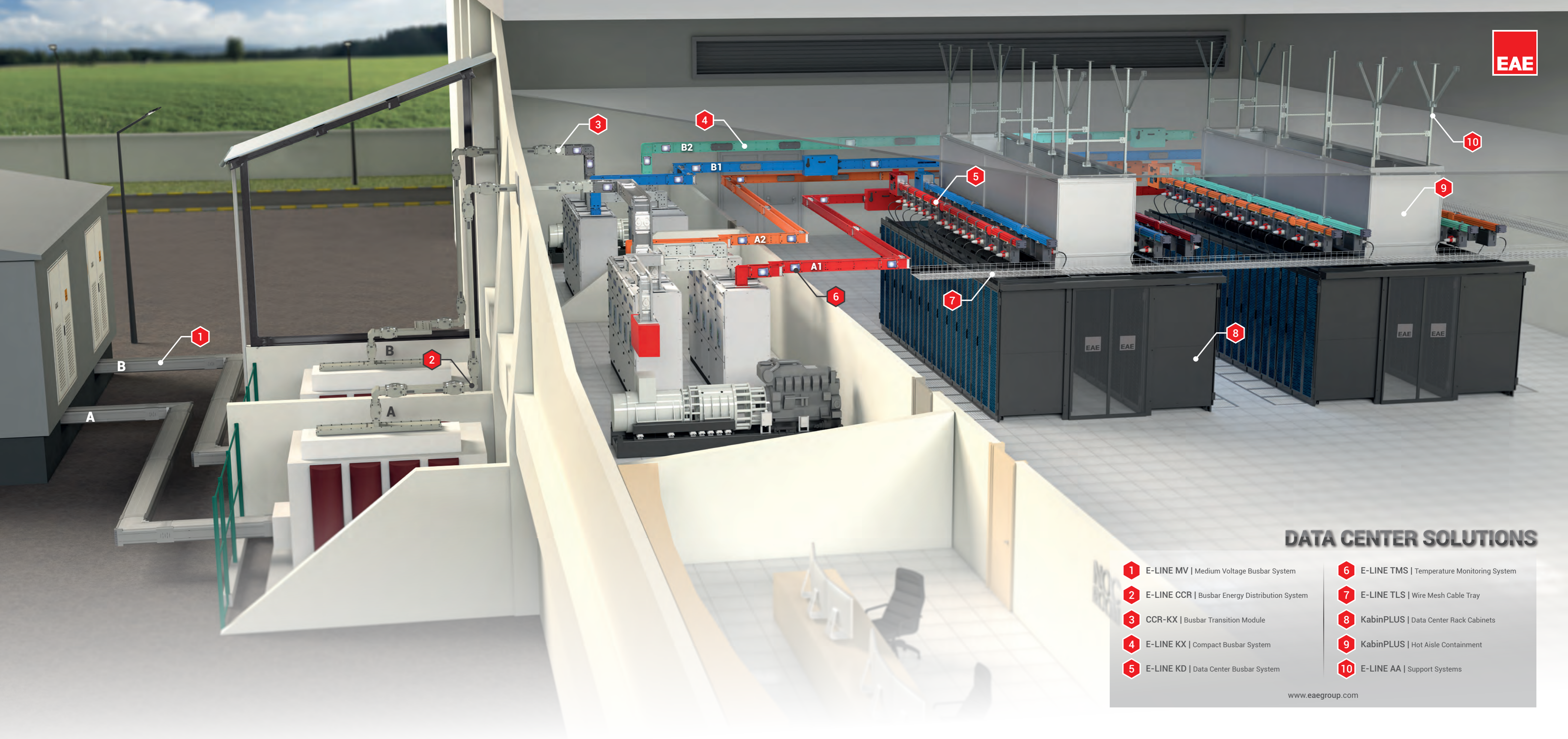
Energy Efficiency

Availability

Scalability

Security





DATA CENTER SOLUTIONS

- 1 E-LINE MV | Medium Voltage Busbar System
- 2 E-LINE CCR | Busbar Energy Distribution System
- 3 CCR-KX | Busbar Transition Module
- 4 E-LINE KX | Compact Busbar System
- 5 E-LINE KD | Data Center Busbar System
- 6 E-LINE TMS | Temperature Monitoring System
- 7 E-LINE TLS | Wire Mesh Cable Tray
- 8 KabinPLUS | Data Center Rack Cabinets
- 9 KabinPLUS | Hot Aisle Containment
- 10 E-LINE AA | Support Systems

DATA CENTER SOLUTIONS

Company Profile



EAE Group in numbers;



1973

year of foundation

Founded in 1973, EAE Elektrik A.S. being the parent company of EAE Group is a worldwide manufacturer of electrical products.

Founded : in 1973
Closed Manufacturing Area : 280.000m²
Range of Products : Busbar Power Distribution Systems
Lighting Busbar Systems
Cable Tray Systems
Underfloor Trunking
Trolley Busbar Systems



280.000m²

closed manufacturing area

Companies : EAE Elektrik
EAE Aydınlatma
EAE Elektroteknik
EAE Teknoloji
EAE Makina



5

manufacturing plants

Number of Plants : 5

"Lean Production" and "Innovative and Customer Driven Product Development" approaches are the key values utilized in designing and manufacturing the product families in compliance with ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001.



3

R&D Centers

EAE Elektrik A.S. busbar products are certified by KEMA/DEKRA (Holland), KEMA - KEUR, UL classified laboratories as per IEC 61439-1/6 standards.

Headquartered in Istanbul/Turkey, EAE Elektrik offers together with the EAE Group of companies, "Value Added" Data Center Solutions as described below:



100+

countries of export

- Busbar Power Distribution Systems (by EAE Elektrik)
- Cable Tray and Support Systems (by EAE Elektrik)
- Rack Cabinets & Containment Systems (by EAE Elektroteknik)
- Data Center Lighting Systems (by EAE Aydınlatma)

DATA CENTER SOLUTIONS

Company Profile



Supervision Services

Experienced EAE teams are available for measurements, installation and testing services on-site



Short Response & Delivery Time

Extensive manufacturing capacity to provide order deliveries within 3-4 weeks' time (Ex-Works incoterms). Emergency manufacturing team can produce in 48 hours any urgent product requirement due to site hold or damaged items during installation



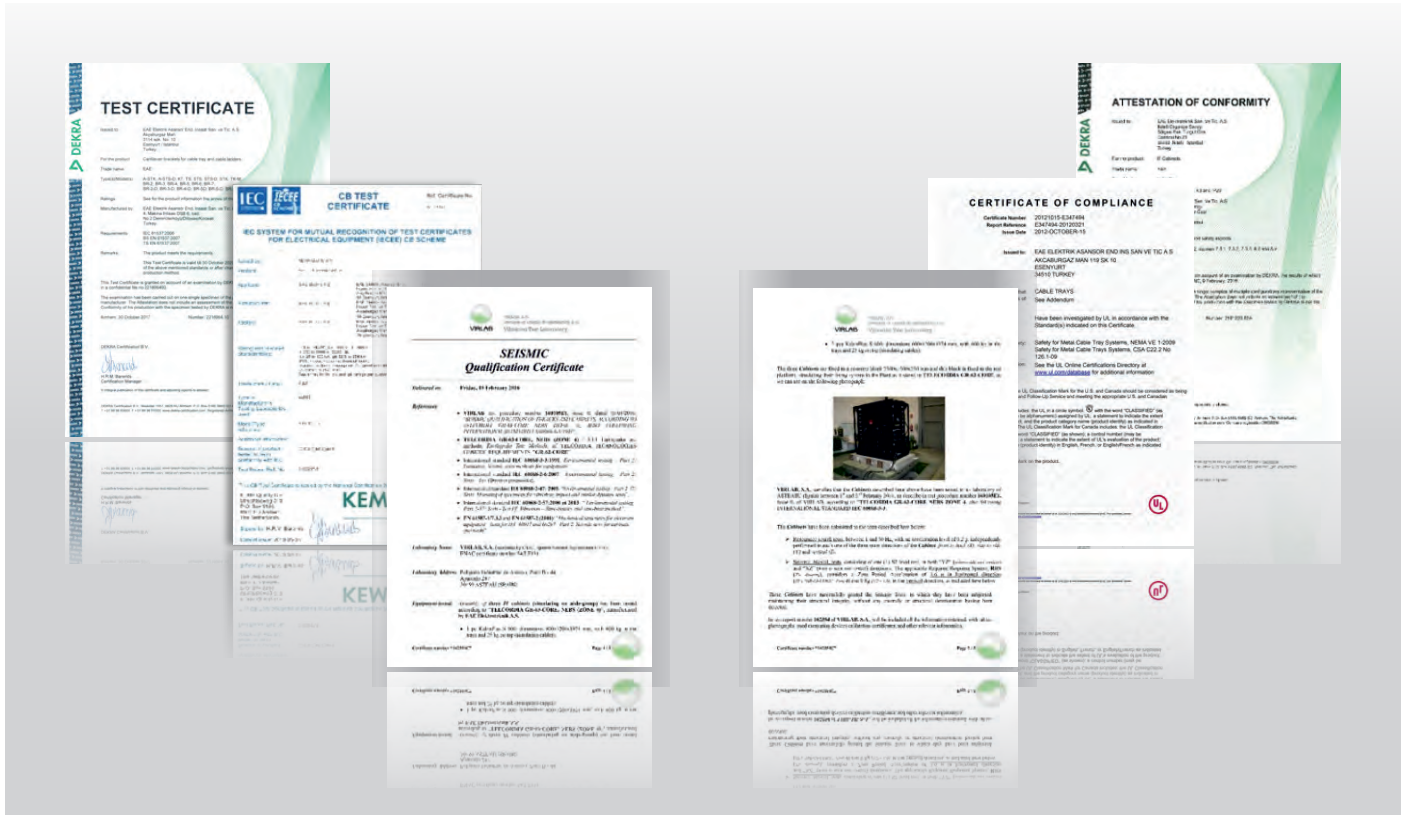
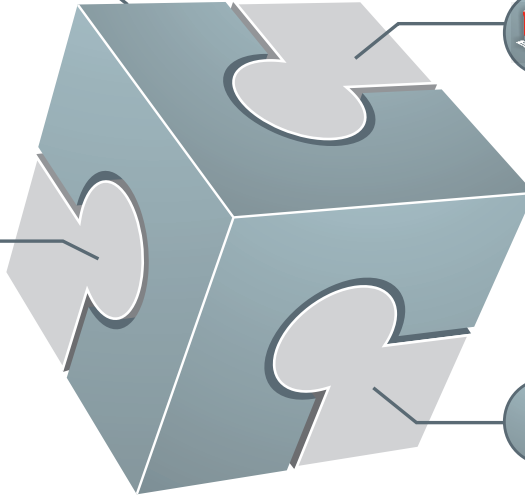
Busbar Software, 3D and Revit Modelling

Easy-use software for practical and fast project design providing precise material lists. EAE products are available in Revit and Aveva libraries.



Pre-Sales Customer Services

Comprehensive technical product consultancy for the tailored customer solution and technical design services free of charge



ENERGY EFFICIENCY

ENERGY EFFICIENCY;

The accelerated rise of energy consumption in data centers and increasing global energy costs make the energy efficiency the permanent hot topic in the data center industry. Due to its big impact on energy efficiency, the heat sources in the IT Power Infrastructure shall be considered within the scope of an "Energy Optimization Program" leading to reduced power loss and naturally less heat dissipation. In addition to that, the cooling methods shall be considered and implemented carefully aiming to completely isolate cold cooling air and hot exhaust air with a correct airflow management by means of containment solutions.

AVAILABILITY

AVAILABILITY;

The Uptime Institute defines Tier classifications for the proper design, build and operation of data centers. The availability of the data center for the active hardware (servers & switches) and its related power, cooling and digital connectivity infrastructure shall always be maintained during operation, maintenance and the upgrade processes. To ensure this, the IT Power Infrastructure shall provide High Short Circuit, High Fire Resistance, Hot-Swap Operations and Physical Durability as well as Busbar Tap-Off points Flexibility while The IT Passive Digital Infrastructure of Rack Cabinets and High Density Cable Tray Systems shall ensure end-to-end sustainability.

ASCALABILITY

SCALABILITY;

The accelerated rise of the volume of data due to Colocation & Cloud Computing and also the recent trends such as IoT and new approaches in social media is the reason of the Data Center spaces to be LIVE environments with a lots of moves, adds and changes (MACs), bringing up the Scalability issue as one of the important challenges. The data center design approach shall consider the overall capacity increase for the first day and future upgrades with flexible implementations. The IT Power and Passive Digital Infrastructure with High Modularity, Flexible Project Management and Expansion, Time Saving Fast Installations, Free Standing Aisle Containments which are expandable and adaptable for standard and non-standard Rack Cabinets together with Wire Mesh Cable Trays ensure the fulfillment of this objective.

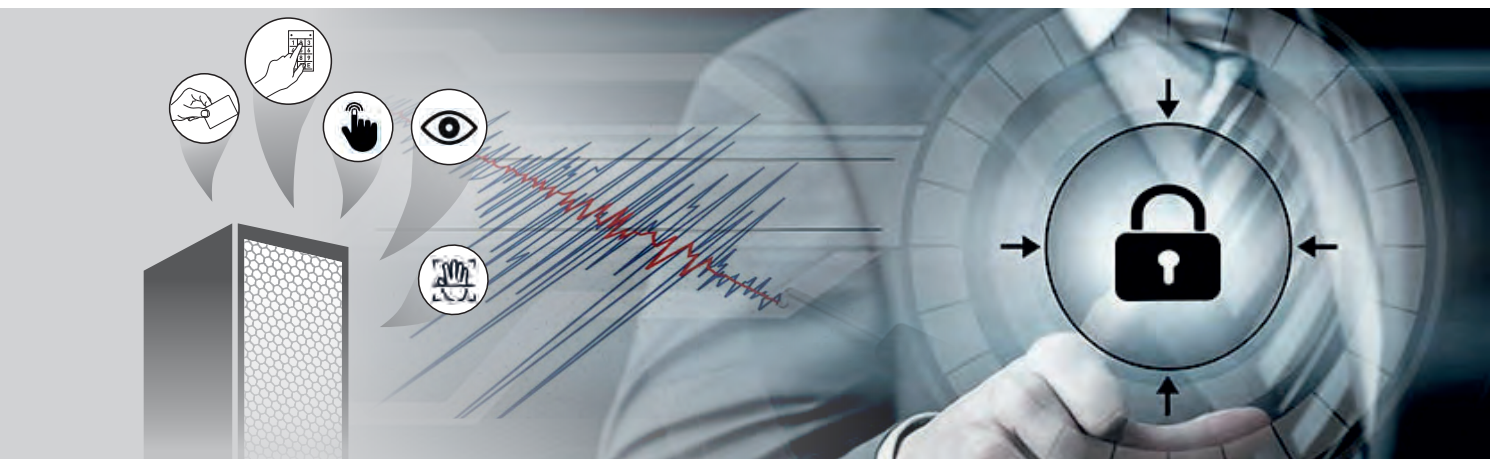
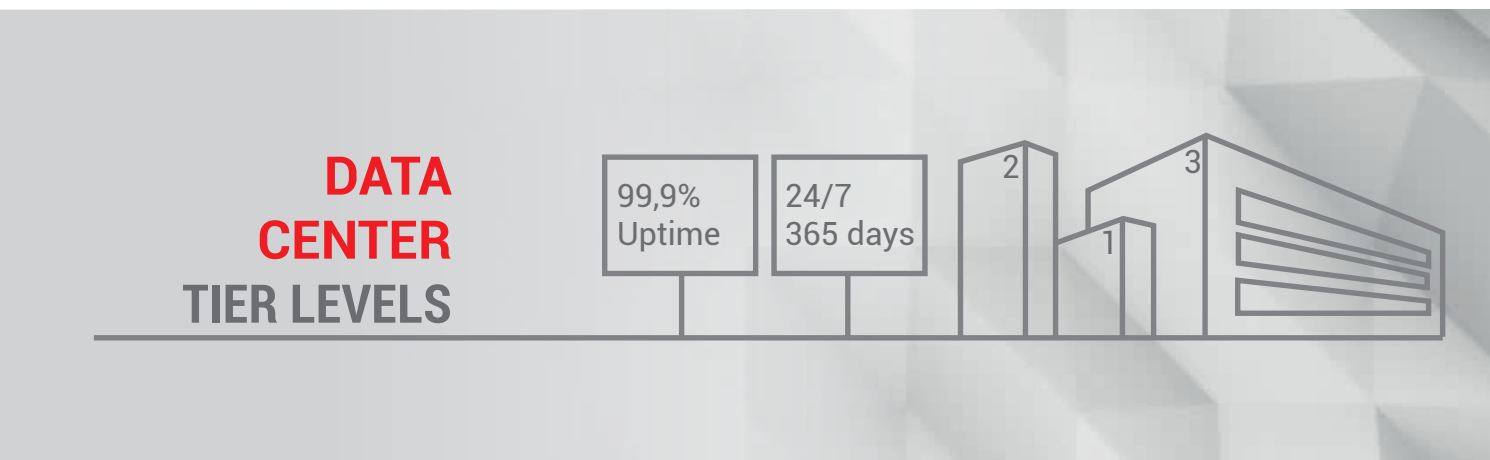
SECURITY

SECURITY;

Rack, corridor, room, zone and building based physical and environmental security against theft, fire, flood and earthquake shall be maintained and supervised in data center environments. The Colocation & Cloud Computing business models demand customer based physical access to their particular racks and zones while the service provider shall keep the overall operability of the critical IT infrastructure against intrusion. To secure the operational sustainability the IT Power and Digital Infrastructure particular solutions such as Sprinkler Proof Busbars, Tap-Off Boxes with Locking Mechanism and Dual Door (for temperature measurement under load), Seismic Restraint Support Systems, High Fire Resistance, Tin Whisker Protection and Seismic Rack Cabinets with Seismic Stand are from great importance. Customer based physical access against intrusion, mechanical and electro-mechanical locking, keypad access, proximity card access, finger print, eye retina or hand geometry biometric access solutions shall be among the choices of the end-customers.

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Challenges



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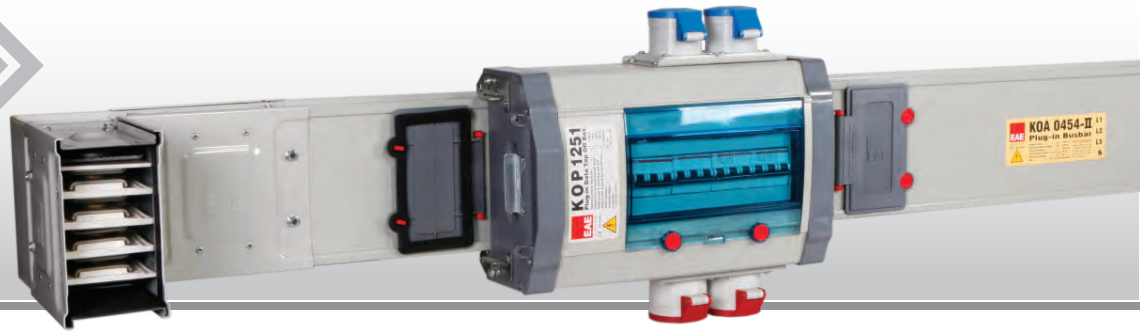
Busbar Power Distribution Systems



Air Segregated Busbar Power Distribution System 160A...800A

The E-Line KO Series is a medium power range busbar system providing a highly flexible solution for the white space of the data centers to distribute power and feed the Rack Cabinets with the required power budgets.

E LINE
KO-II
BUSBAR



Thanks to their design, E-Line KO busbars are able to accommodate high density tap-off points thus various tap-off boxes can be deployed at every 50 cm. along the both sides of the busbar resulting with a tap-off point at every 25 cm. distance. The E-Line KO Busbars can be used in horizontal or vertical applications. Versatile Tap off box solutions comprising metal and plastic boxes for small currents with particular locking mechanisms, can easily be customized and equipped with different setups of MCBs, SPDs, RCCBs, Power Meters, Energy Analyzers and Current Transformers for electrical protection, energy monitoring and management.

Features:

- Modular structure
- Plug-in tap off points at every 25 cm.
- Aluminium or copper conductors
- 4, 4,5 or 5 conductors
- Tin plated conductors with tin whisker free contacts
- Dust cover on outlet points
- Halogen free material
- IP 55 protection class
- Single shear head bolt joint
- Compact Tap-off Boxes up to 80A
- Metal Tap-Off Boxes up to 400A

Applications:

- Data Centers - White Space Area
- Data Centers - Medium Range Power Distribution Areas with High Density Tap-Off Points
- Other - Medium-sized buildings or industrial facilities

DATA TAP-OFF Boxes; upto 400A

To feed the Rack Cabinets with the required power budgets and monitor the energy consumption. EAE offers a wide range Tap-Off Boxes composed of metal and plastic cases.



DATA CENTER SOLUTIONS

Busbar Power Distribution Systems



Air Segregated Busbar Power Distribution System 100A-160A-225A

The E-Line MK Series small power range busbar systems are flexible and cost-effective solutions for the distribution of electrical power in data center white spaces for lower energy requirements.

ELINE
MK
BUSBAR



Tap-off points at every 50 cm. on both sides can be deployed resulting with a tap-off point in each 25 cm. distance. The E-Line MK Busbars can be used in horizontal or vertical applications. Versatile Tap off box solutions comprising metal and plastic boxes rated up to 80A can easily be customized for electrical protection and energy metering.

Features:

- Modular structure
- Plug-in tap off outlets at every 25 cm. on both side
- Tin plated aluminium or copper conductors with tin whisker free contacts
- 4 or 5 conductors
- Hinged and lockable dust cover on outlet points
- Halogen free material
- Installation without using a torque wrench (shearhead bolts)
- IP 55 protection class
- Compact Tap-off Boxes up to 80A

Applications:

- Data Centers - White Space Area
- Data Centers - Low Range Power Distribution Areas with High Density Tap-Off Points
- Other - Small-sized buildings or industrial facilities

DATA TAP-OFF Boxes; upto 400A

Customized tap-off boxes provide an independent setup for choosing a variety of electrical equipment to be installed regardless of the brand. Energy Metering over RJ-45 connections using structured cabling is one of the value-added features of the EAE Tap-Off boxes for the real-time monitoring of energy consumption and other critical power parameters in your data centers to monitor and drive your IT infrastructure efficiently.

Features:

- Plastic or Metal
- IP 55 protection class
- Compact Tap-off Boxes up to 80A
- Aluminium Tap-Off Boxes up to 125A
- Sheet metal Tap-Off Boxes up to 400A
- RJ-45 Connectivity
- Energy Monitoring and Management Customization with
 - Main/Molded Case/Residual Circuit Breakers
 - NH Fuses
 - Surge Protection Devices
 - Power Meters with Current Transformers
 - Energy Analyzers

DATA CENTER SOLUTIONS

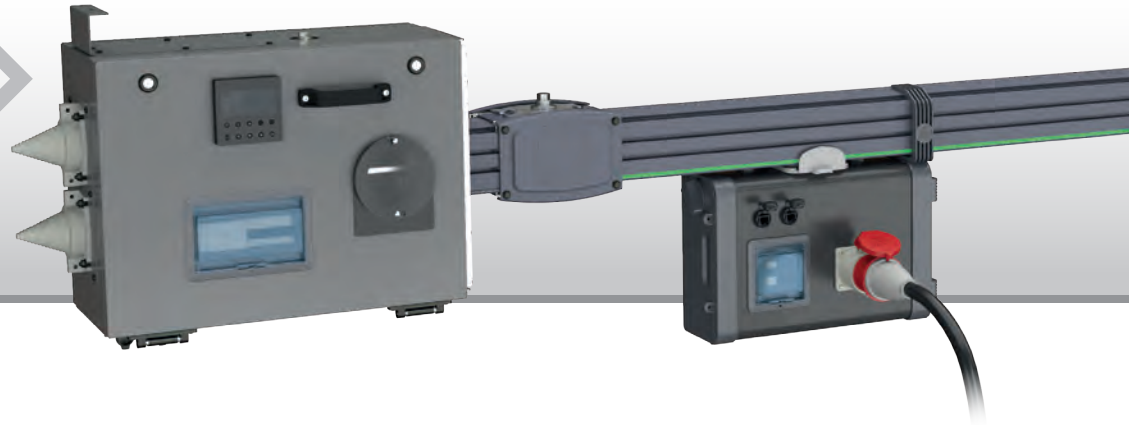
Busbar Power Distribution Systems



Data Center Busbar Distribution Systems 160A...800A

To power the mission critical IT infrastructures on the Data Rack Cabinets, EAE offers a highly flexible and reliable Busbar System to meet the "Scalability" challenge in the Data Centers finding the way to Moves, Adds and Changes (MACs).

ELINE
KD
DATA RACK
BUSBAR



To power the mission critical IT infrastructures, EAE offers a highly flexible Busbar Systems for reliable and energy efficient operations in your Healthcare System's Data Centers.

Features:

- Plug-in-play anywhere along the bar
- Protected Tap-off contacts
- Aluminium or copper conductors
- 4,5 or 6 conductors
- Tin plated aluminium or copper conductors
- Safe alignment mechanism ensures correct installation and operation
- Special interlock mechanism enabling to carry the weight of the plug-in box and cables by the busbar housing
- IP 23D protection level

Applications:

- Data Centers - White Space
- Data Centers - High Density Distribution Points and Mid-Range Power Distribution Areas with "Infinite Flexibility"
- Other - Medium sized buildings and industrial facilities

DATA TAP-OFF Boxes Upto 125A;



KD Plug-in 125A Tap-Off Boxes made of aluminum case with Safe Locking Mechanism enables Customization with vendor neutral components for different setups of MCB, SPD, RCCB, Power Meters Energy Analyzers and Current Transformers etc.

DATA CENTER SOLUTIONS

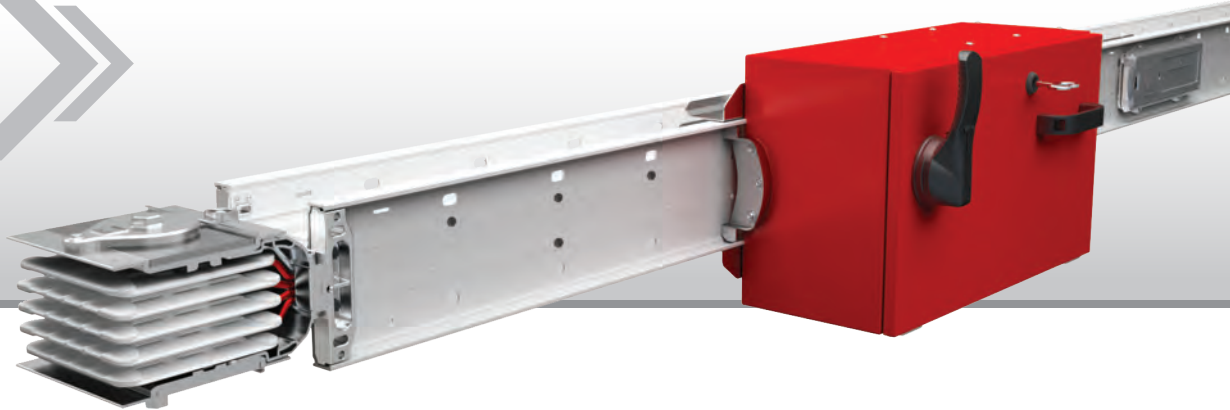
Busbar Power Distribution Systems



Compact Busbar Power Distribution System 400A...7500A

The E-Line KX Series is the ultimate solution for high power range compact busbar systems to distribute power from the main transformer stations, generator sets and various high power sources through main distribution lines to the LV Switchgear in the data center power infrastructure.

ELINE
KX
BUSBAR



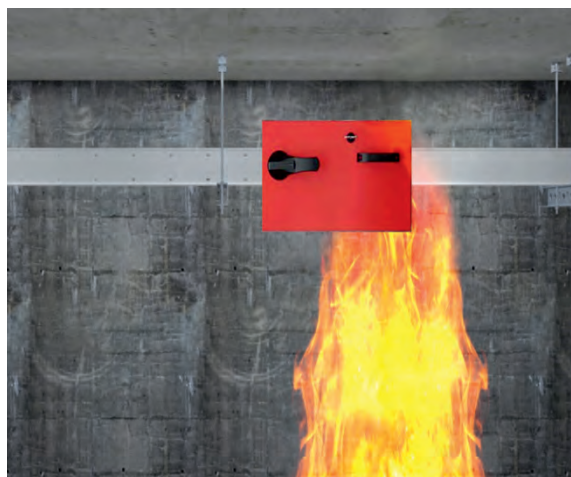
With ratings from 400A to 7500A composed of high conductivity copper and aluminum conductors, the sandwich construction combines insulated conductors in an aluminum housing. Due to its compact design, the EAE E-Line KX Series Busbar System can also be utilized for the data center white space power distribution to leverage the space utilization and heat dissipation. The wide range Tap-Off box choices with customization also applies to the EAE E-Line KX Series.

Features:

- Modular structure
- Plug-in tap off points at every 60 cm.
- Aluminium or copper conductors
- 3; 4; 4,5; 5 or 6 conductors
- Tin or silver plated conductors with tin whisker free contacts
- Epoxy Insulation
- Dust cover on outlet points
- Halogen free material
- IP55, IP65, IP67 protection class
- Seismic compliance
- Single bolt joint
- Sheet metal Tap-Off Boxes up to 630A (Plug-in) 1200A (Bolt-On)
- GreenGuard Gold and CPR B1ca, s1, d0 certifications

Applications:

- Data Centers - White Space Area
- Data Centers - High to Medium Range Power Distribution Areas
- Other - High to Medium sized buildings or industrial facilities



Fire Certificate

KX Series Busbar

IEC 60331-1 and IEC 60331-21; **1000 °C - 3 Hours**

IEC 60331-1; **830 °C - 3 Hours**

BS 6387; **950 °C - 3 Hours**

BS 8491; **830 °C, 120 minutes + Pressurized Water + Mechanical Impact**

Plug-in Tap Off Box

IEC 60331-1; **830 °C - 3 Hours**,

Magnetic MCCB

IEC 60331-1; **830 °C - 3 Hours**,

NH Circuit Breakers

DATA CENTER SOLUTIONS

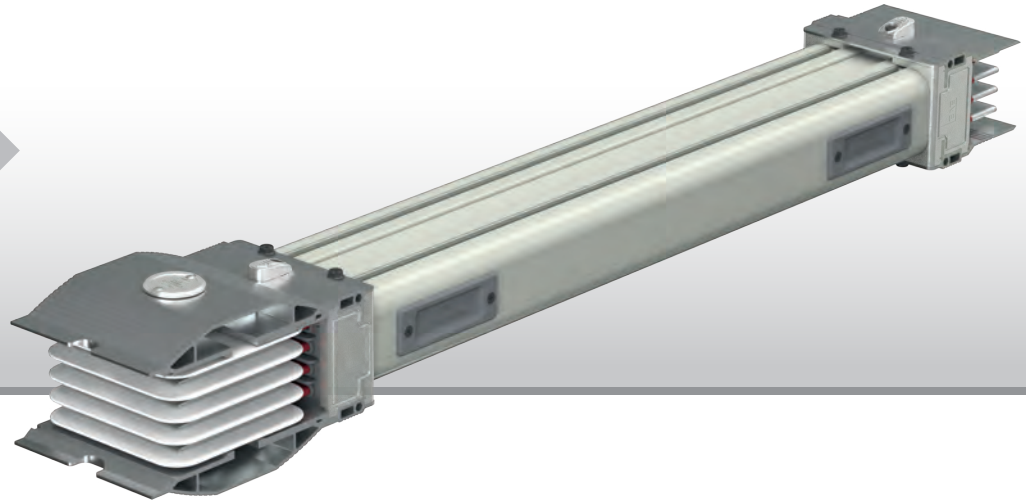
Busbar Power Distribution Systems



Compact Outdoor Busbar Power Distribution System 850A...6300A

The E-Line CCR Series is a specific solution for outdoor high power range compact busbar systems to distribute power from the main transformer stations, from generator sets and various high power sources in outdoor environments for the data center power infrastructure.

ELINE
CCR
BUSBAR



With ratings from 850A to 6300A, composed of high conductivity copper or aluminum conductors, the body of the E-Line CCR busbar is formed using DURACOMP, a composite material of epoxy resin and pure silicon protection, inserted into an Aluminium housing to ensure IP68 ratings against arduous environments with high fault level endurance, good fire ratings and resistance to moisture.

Features:

- Protection degree IP68
- Protects against corrosion
- Protects against chemicals
- Resist insects and rodents
- Suitable for tropical climates
- Resistant to fire propagation
- Electrical continuity during fire
- Protects against chimney effects
- High mechanical strength
- Single bolt joint
- Low voltage drop
- High short circuit withstand
- Suitable to connect with E-Line KX busway systems

Applications:

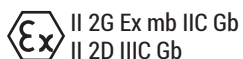
- Data Centers - High Range Outdoor Power Distribution Areas
- Other - Big Scale buildings or industrial facilities Outdoor Power Distribution

Advantages:

- Lighter
- Easier mechanical support
- Reusable
- Quicker installation time
- Paint options (Special RAL Codes)

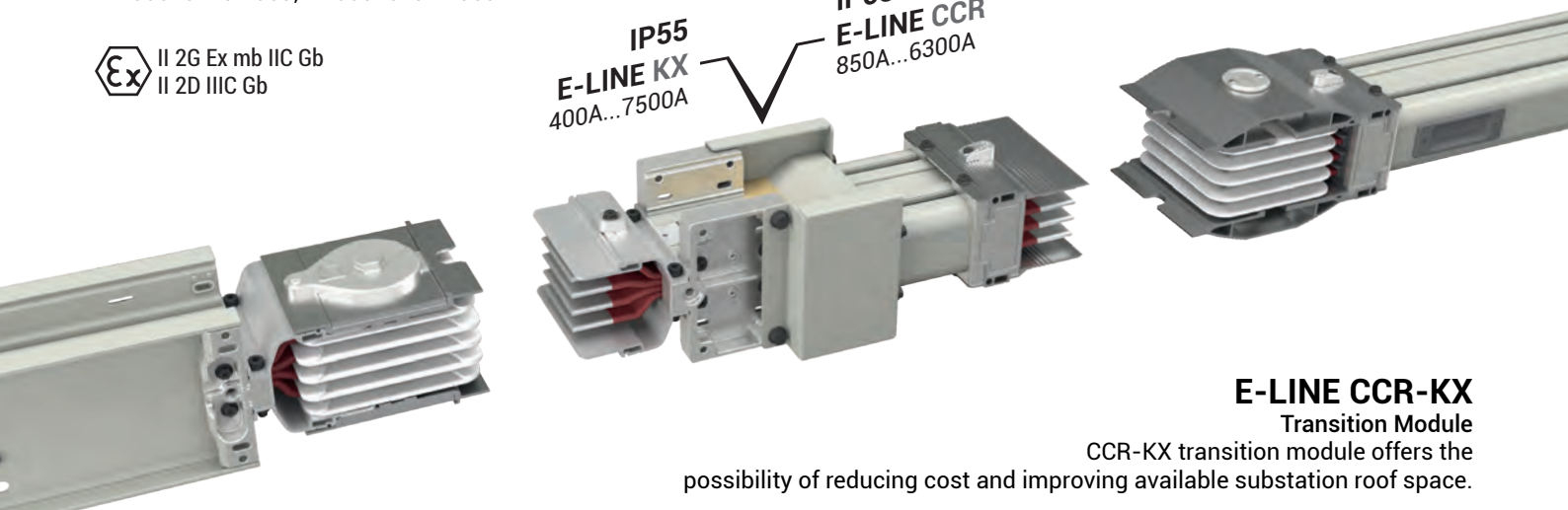
EX - Protected

►► ATEX as per EN 60079-0:2009,
EN 60079-18:2009, EN60079-31:2009



IP55
E-LINE KX
400A...7500A

IP68
E-LINE CCR
850A...6300A



E-LINE CCR-KX

Transition Module

CCR-KX transition module offers the possibility of reducing cost and improving available substation roof space.

DATA CENTER SOLUTIONS

Busbar Power Distribution Systems



Medium Voltage Busbar System 12kV/24kV 950A...5700A

The E-Line MV Series Busbar Systems, as the newest addition to the busbar product range, is offered with 12 kV and 24 kV variants. It offers safe and efficient power transmission. MV CR is manufactured in a single body with Al or Cu conductors embedded in DURACOMP insulation which is a composite material of epoxy and pure silicon.

ELINE
MV
BUSBAR

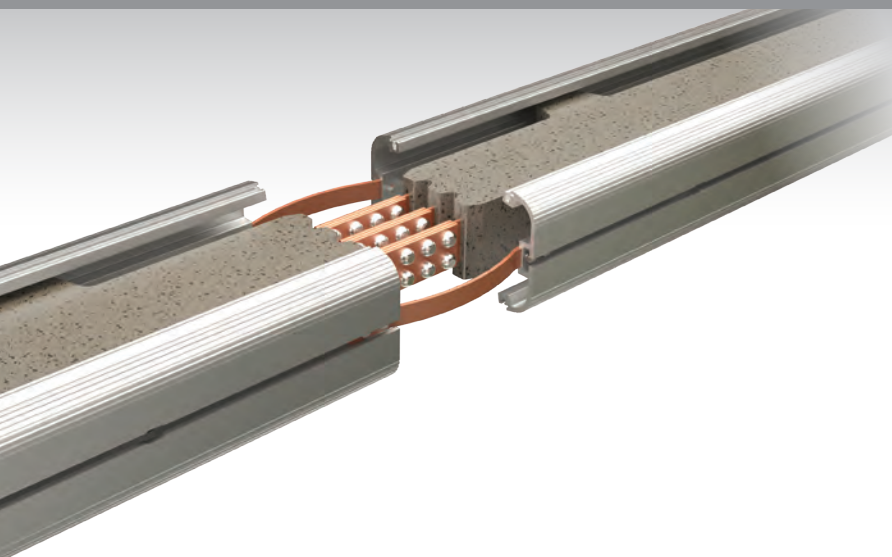


Features:

- Products tested in accordance with the international standards
- Outdoor IP 68 level protection
- Corrosion-resistant
- Chemical-resistant
- Pest-resistant
- Usable in tropical environments
- High mechanical strength
- Without stack effect
- Highly resistant to short circuit
- Ensures less voltage drop in comparison with cabled systems
- UV-resistant
- No requirement for maintenance
- High short circuit resistance due to compact structure
- Special design to occupy minimum space based on the running amperage rank

Applications:

- Outdoors
- Industrial buildings
- Petrochemical Industry
- Areas with flood risk
- Oil and natural gas Industry
- Power Generation Industry
- Data centers



CURRENT RATINGS

►► For 12kV Copper Conductors:

950A / 1150A / 1350A / 1650A / 2250A / 2750A

►► For 24kV Aluminium Conductors:

1500A / 2000A / 2500A / 3000A

►► For 24kV Copper Conductors:

1800A / 2100A / 3200A / 4000A / 5000A / 5700A

DATA CENTER SOLUTIONS

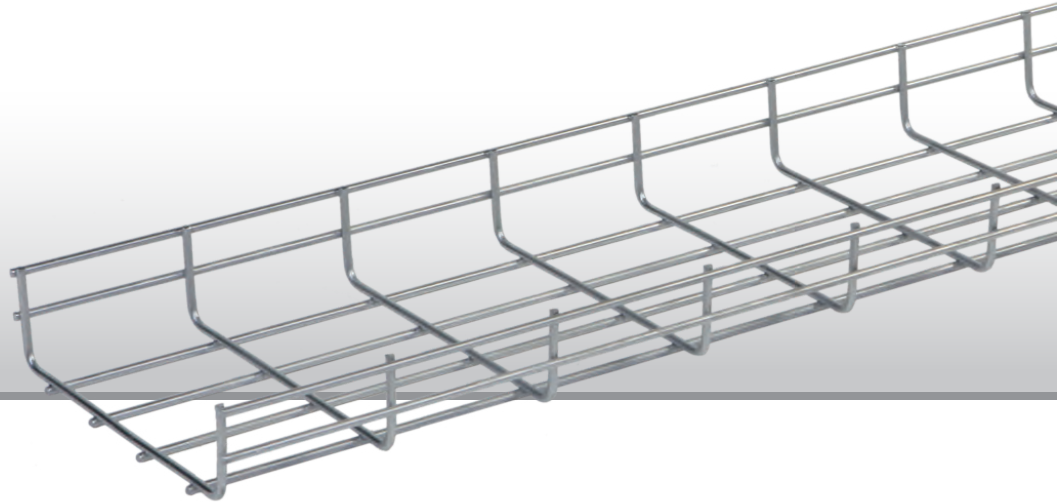
Cable Tray Systems



Wire Mesh Cable Trays

E-Line TLS Series wire mesh cable trays allow high density cabling with a flexibility for Moves-Adds-Changes in the data center environments.

ELINE
TLS



Stainless steel or electro-galvanized wire mesh tray with painted option helps to eliminate the tin whisker problems and provides color coding in the cable pathways. The cage structure and feature rich accessories of the E-line TLS cable trays makes it simple for modular expansion and easy access in-between the cable pathways.

Features:

- Wires of 4-5 mm. of diameter to form the cable tray
- In 3000 mm. standard lengths
- Produced as electrogalvanized, stainless steel and also as painted
- H35, H55 and H100 mm.
- W50.....W600 mm.
- Flexible application with feature rich accessories
- Fire resistant

Applications:

- Data Centers - White Space Overhead Data Cabling
- Data Centers - White Space Raised Floor applications
- Other - Food Industry, Oil&Gas Industry



DATA CENTER SOLUTIONS

Cable Tray Systems



Pregalvanized Cable Tray Systems

E-Line UKFC Series cable trays are aimed to build-up a general purpose cabling infrastructure in data center environments.



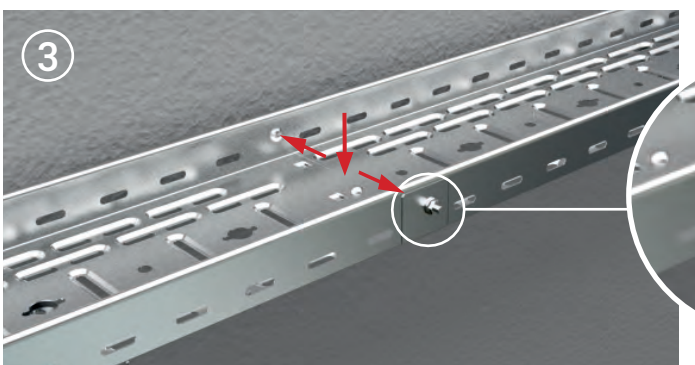
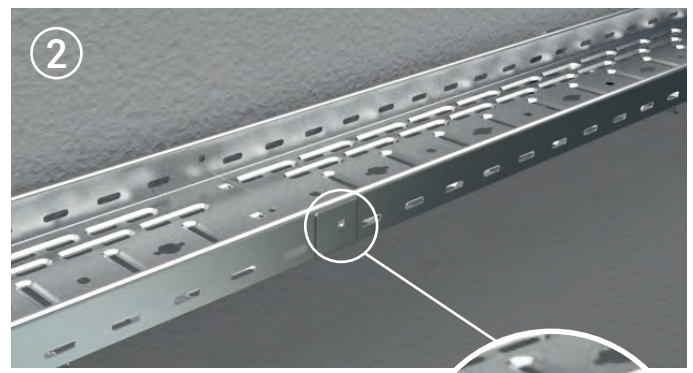
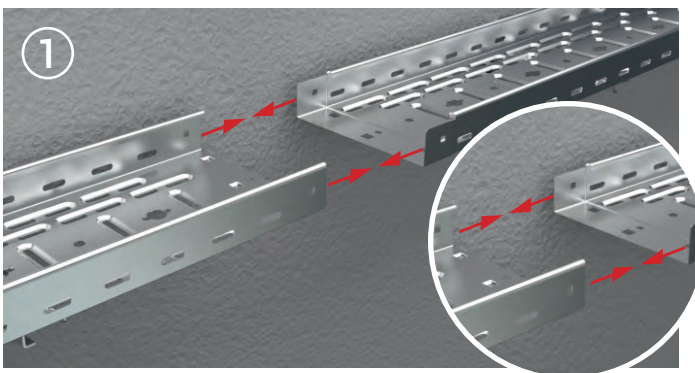
The UKFC cable tray system ensures fast and easy mounting with interlocking mechanism by means of M6 bolts set eliminating the need for additional fittings. Pregalvanized tray with painted option helps to get rid of the tin whisker problems and provides color coding in the cable pathways.

Features:

- In 3050 mm. standard lengths
- Fire resistant (90 min.)
- H40, H50 and H60 mm.
- W100....W600 mm.
- Pregalvanize and also as painted
- Feature rich accessories

Applications:

- Data Centers - White Space Overhead Power Cabling
- Data Centers - White Space Raised Floor applications
- Other - Buildings, Industrial Facilities



DATA CENTER SOLUTIONS

Cable Tray Systems



Universal Cable Ladder Systems

E-Line UMK Series cable ladders are suitable to route high density data cabling in-between the cabinet rows in data center environments.

ELINE
UMK

A stylized graphic consisting of two grey chevrons pointing to the right, positioned to the right of the 'ELINE UMK' text.

The UMK cable ladder system can also be used in general applications with its special design of ladder windows preventing cables from being cut or stripped off accidentally. Pregalvanized cable ladder with painted option helps to eliminate tin whisker problems and provides color coding in the cable pathways.

Features:

- In 3000 mm. standard lengths
- Fire resistant
- H60 mm.
- W100....W400 mm.
- Pregalvanize and also as painted
- Many accessories

Applications:

- Data Centers - White Space Overhead Cabling
- Data Centers - White Space Raised Floor applications
- Other - Buildings, Industrial Facilities



DATA CENTER SOLUTIONS

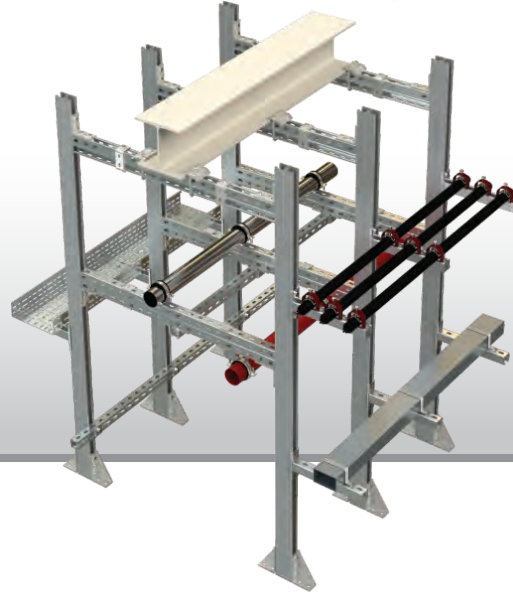
Support Systems



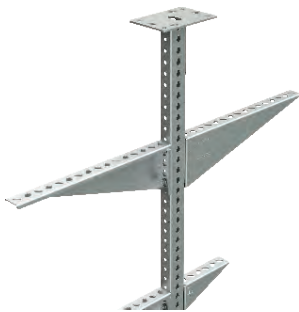
Heavy Duty and Seismic Support Systems

For the cable trays, cable ladders and seismic restraint solutions of electrical and mechanical equipments, E-Line BR, E-Line A-A and E-Line Seismic support systems provide a sustainable solution for standard and heavy duty applications.

ELINE
**A-A, BR
SEISMIC**



To ensure corrosion resistance and minimize the tin whisker problems, the support systems are manufactured as pregalvanized and hot dip galvanized with electrogalvanized and/or painted accessories

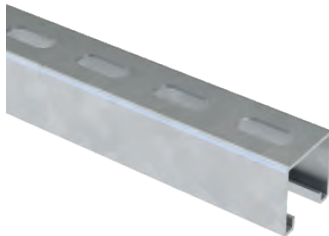


A-A

Hot Dip Galvanized (TS EN ISO 1461), Fire Resistant (E30-E90)

E-Line A-A series of support systems are designed for heavy duty loads.

The A-A series can be produced from 2.0mm upto 4 mm. as hot dip galvanized. With its special coating it can withstand to 400 hours salt test and it is fire resistant.



BINRAK CHANNEL (41x41mm.)

Pregalvanized (TS EN 10346 - TS EN 10143) and Hot Dip Galvanized (TS EN ISO 1461)

E-Line BINRAK series are a support system especially designed for heavy duty loads.

The BINRAK series can be produced with 2.0mm and 2.5mm thickness as pregalvanized and hot dip galvanized



SEISMIC

Hot Dip Galvanized (TS EN ISO 1461)

E-Line Seismic bracing assembly systems are designed to secure the support systems sustainability against seismic waves with lateral and longitudinal applications withstanding the push and pulling forces. The assemblies are produced as hot dip galvanized with electrogalvanized accessories.

DATA CENTER SOLUTIONS

Rack Cabinet Systems



KD Series

General Specifications

CONFIGURATION FLEXIBILITY

Wide range of dimensions, send as assembled. Wide range of products for cable management and airflow management.

ROBUST FRAMEWORK

Rigid framework made of steel with 1500kg loading capacity.

HIGH CORROSION RESISTANCE

All parts made of galvanized sheet steel, electrostatic powder painted for superior corrosion protection.

STANDART COLOURS

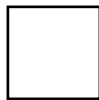
RAL 9003 WHITE

RAL 9005 BLACK

Please contact for other alternatives.



RAL 9005 Black



RAL 9003 White

EARTHING

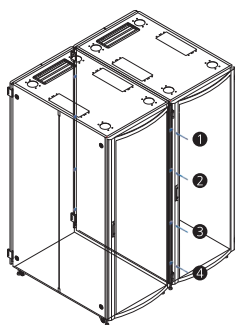
Earthing terminal bracket is the bonding point of the rack to the Common Bonding Network (CBN).

Earthing continuity is provided between front door, rear door, side panels and all interior parts.



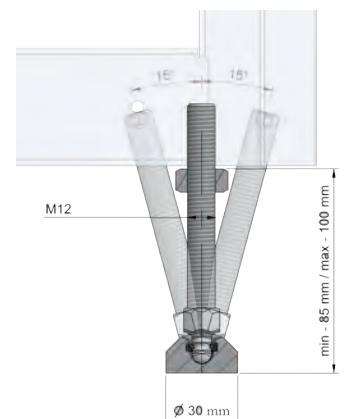
RACK BAYING KIT

- Racks can be bayed with or without side panel fitted on.
- 4 pcs baying brackets per side (front and rear) are used.
- The baying kit does not interfere with installation plane in the cabinet interior.



LEVELLING FEET

- Levelling feet allow adjustment on uneven floors.
- Completely metal material.
- Loading capacity 500kg per foot.
- Levelling feet is adjustable from outside and inside the rack easily at each corner.



True Dimensions

- Exact dimensions.
- Depth: Excluding front and rear doors.
- Width: including side panels.



DATA CENTER SOLUTIONS

Rack Cabinet Systems

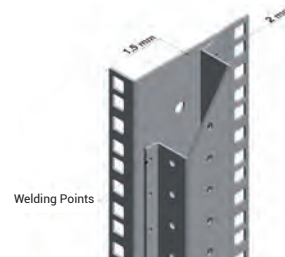


KabinPLUS

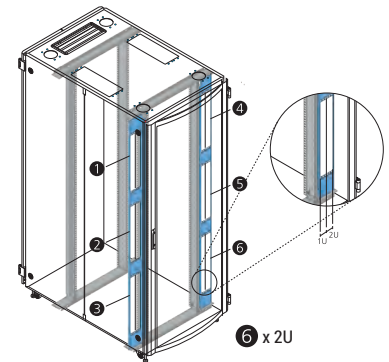


19 INCH EIA PROFILES

- 4 pcs profiles on standard configuration.
- Material: 2+1,5mm pre-galvanised sheet metal, painted and U marked.
- Load carrying capacity 1500 kg.
- Additional 12U Zero-U mounting area option.



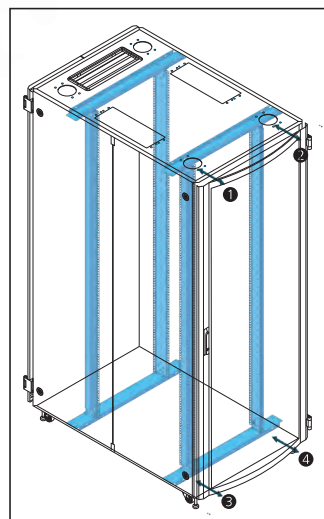
- No side profiles ensures max. area for cable management.
- Rack Unit Identification markings - Standard on mounting profiles as reverse colour.



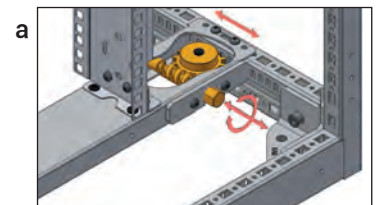
- Zero-U mounting

CASTORS

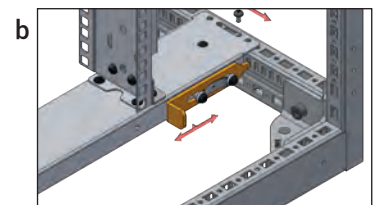
- Standart castor set for transportation.
- Heavy duty option castor sets, 500kg/castor
- 1500 kg dynamic loading capacity according to UL 1678



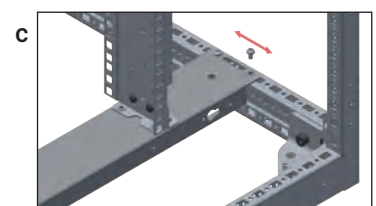
Precise depth adjustment on mounting rails.



a- adjustable with worm screw (Archimedes screw)



b- adjustable with toolless rod



c- standard configuration, fixed with screws, adjustable

DATA CENTER SOLUTIONS

Rack Cabinet Systems



Doors and Covers

FRONT AND REAR DOORS

- 85% perforation rate enables more air flow. (DIN 24041)
- IP20 protection degree - finger proof - Ø12,5mm.
- Single and double opening door options.

180° DOOR OPENING ANGLE

- More available work space in corridor thanks to the 180° door opening angle.
- Even racks bayed together, doors can open up to 180°.

EASY REMOVE DOOR DESIGN

- Toolless removable.
- Easy to reverse.
- Detachable earthing wire.

LOCKING OPTIONS

- Suitable to all brands locking handles.
- Dedicated cable through for handle cables.
- Single point and 4 point locking options for single opening door.

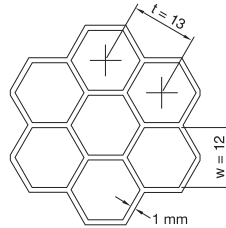


SEISMIC PLATFORM

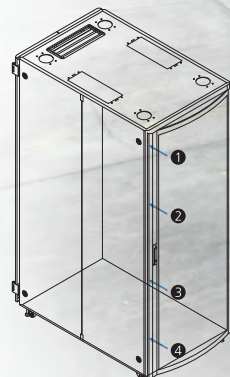
- Strengthens the rack connection to the floor.
- Flattens uneven surfaces.
- Tested and Certified to Zone 4 durability.



KD Series



1:1 DIN 24041

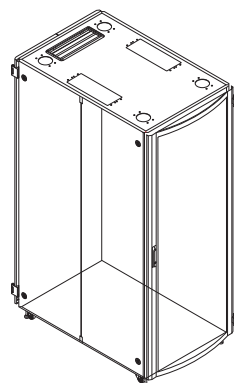


4 point locking system



BOTTOM COVER

- With its modular design, it may not be used at all to provide access directly under the floor.
- The hot or cold aisle can be used partially at the front or rear to make the air flow efficient.
- It can be completely closed to prevent dust ingress or to provide full airflow control.
- Thanks to their compact structure and being designed to be completely below the assembly plane, the bottom covers can be removed or installed later in the field when the rack is empty.
- It is possible to enter data and energy cables from the side, front-bottom or rear-bottom side of the rack from the bottom cover.
- There are various pre-opened (knock-out) cable entries on the covers.



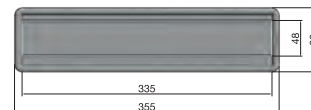
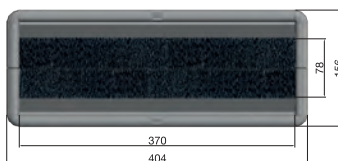
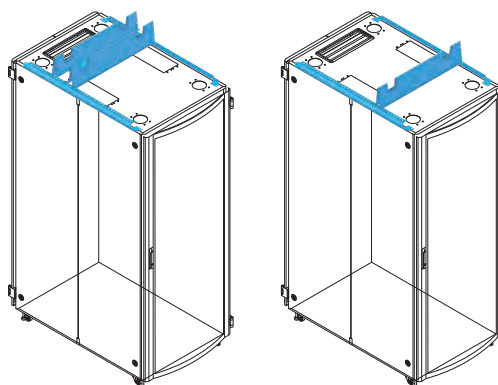
DATA CENTER SOLUTIONS

Rack Cabinet Systems

KabinPLUS

TOP COVERS

- There are various pre-opened (knock-out) cable entries.
- Cable entry module options for cable entry holes.
- Air flow management options on the top chassis and covers.
- Cable management options on the top chassis and covers.

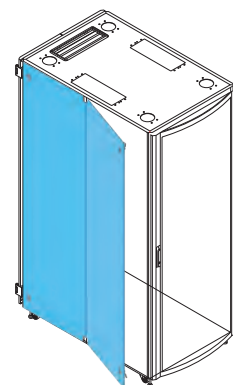
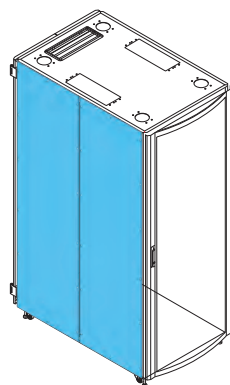
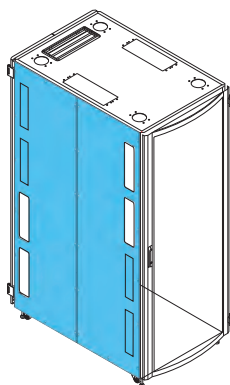
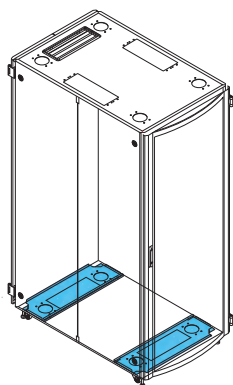
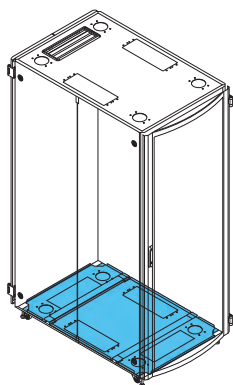


CABLE ENTRY MODULES

- Two different sizes.
- There is a plastic frame not to harm the cables.
- Aesthetical view.

SIDE PANELS

- Different types of side panels for different needs; Fixed, Lockable, with Transitions.
- Racks can be combined with their side panels on them. The presence or absence of the side panels and the type selected do not affect the assembly of the racks side by side.
- The side panel design keeps earthing continuity.



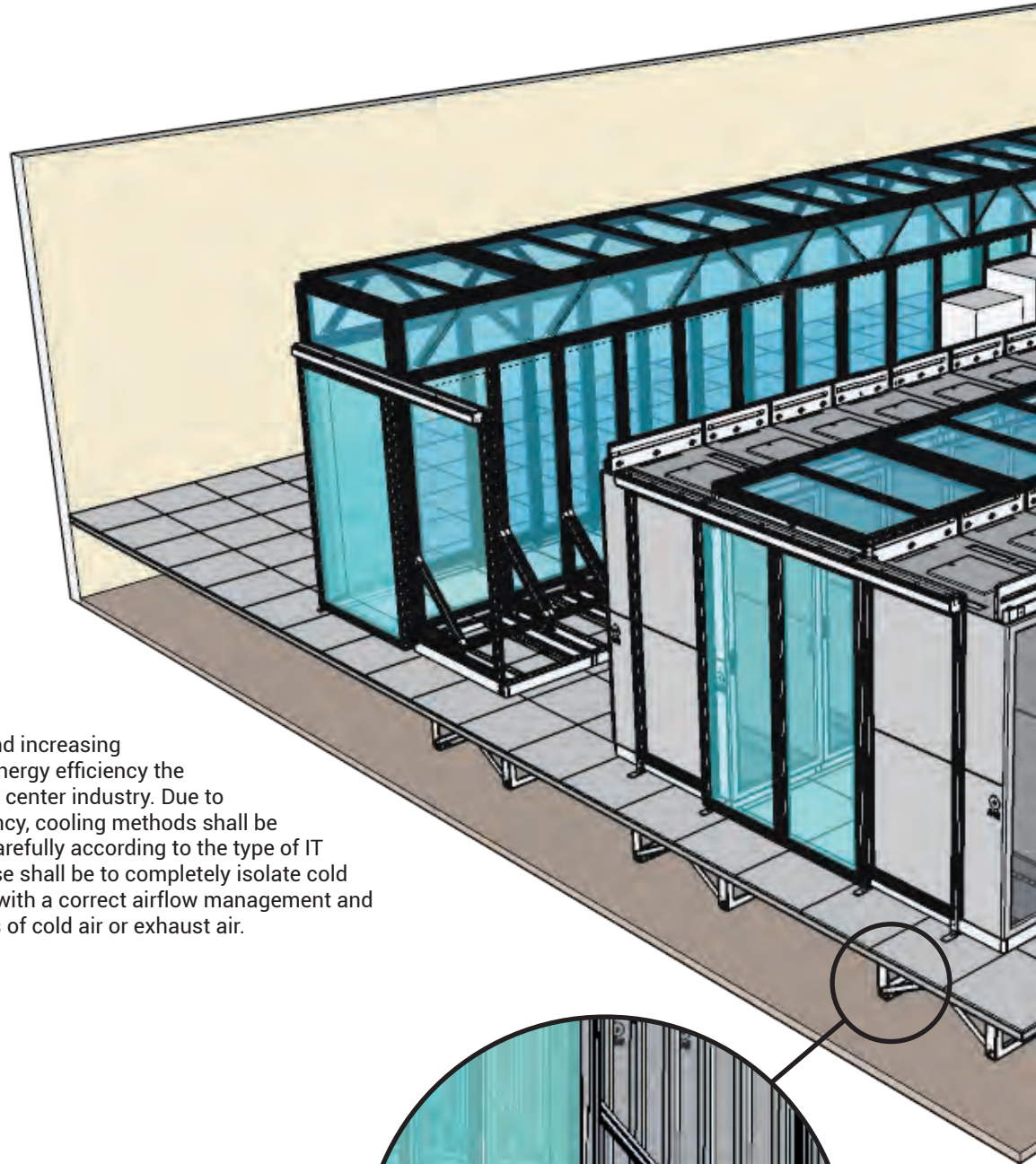
DATA CENTER SOLUTIONS

Rack Cabinet Systems



Aisle Containment Solutions

To increase the "Energy Efficiency" and manage the "Physical Security & Access Control" in data center environments, KabinPLUS offers Data Center Aisle&Containment Solutions.



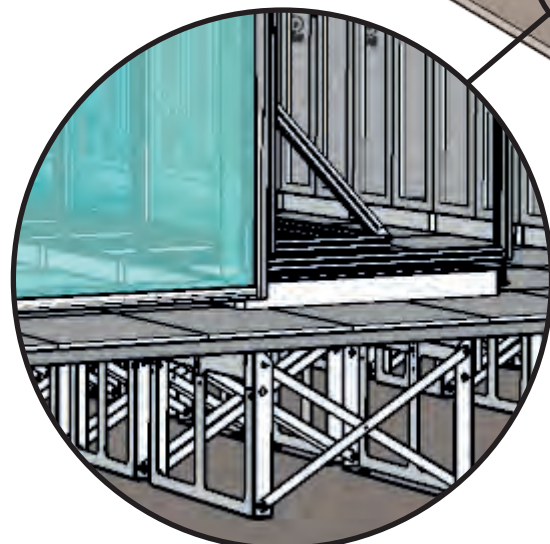
Energy Efficiency

The accelerated rise of energy consumption in data centers and increasing global energy costs make the energy efficiency the permanent hot topic in the data center industry. Due to its big impact on energy efficiency, cooling methods shall be considered and implemented carefully according to the type of IT infrastructure. The main purpose shall be to completely isolate cold cooling air and hot exhaust air with a correct airflow management and applying containment solutions of cold air or exhaust air.

Applications

Reduce Energy Consumption

- Improve Airflow
- Secure Physical Access
- Dedicated Containment
- Separate Cold and Hot Air
- Improve Overall Hardware Equipment Efficiency
- Space Management for Non-Standard Rows
- Room & Space & Cabinets Zoning



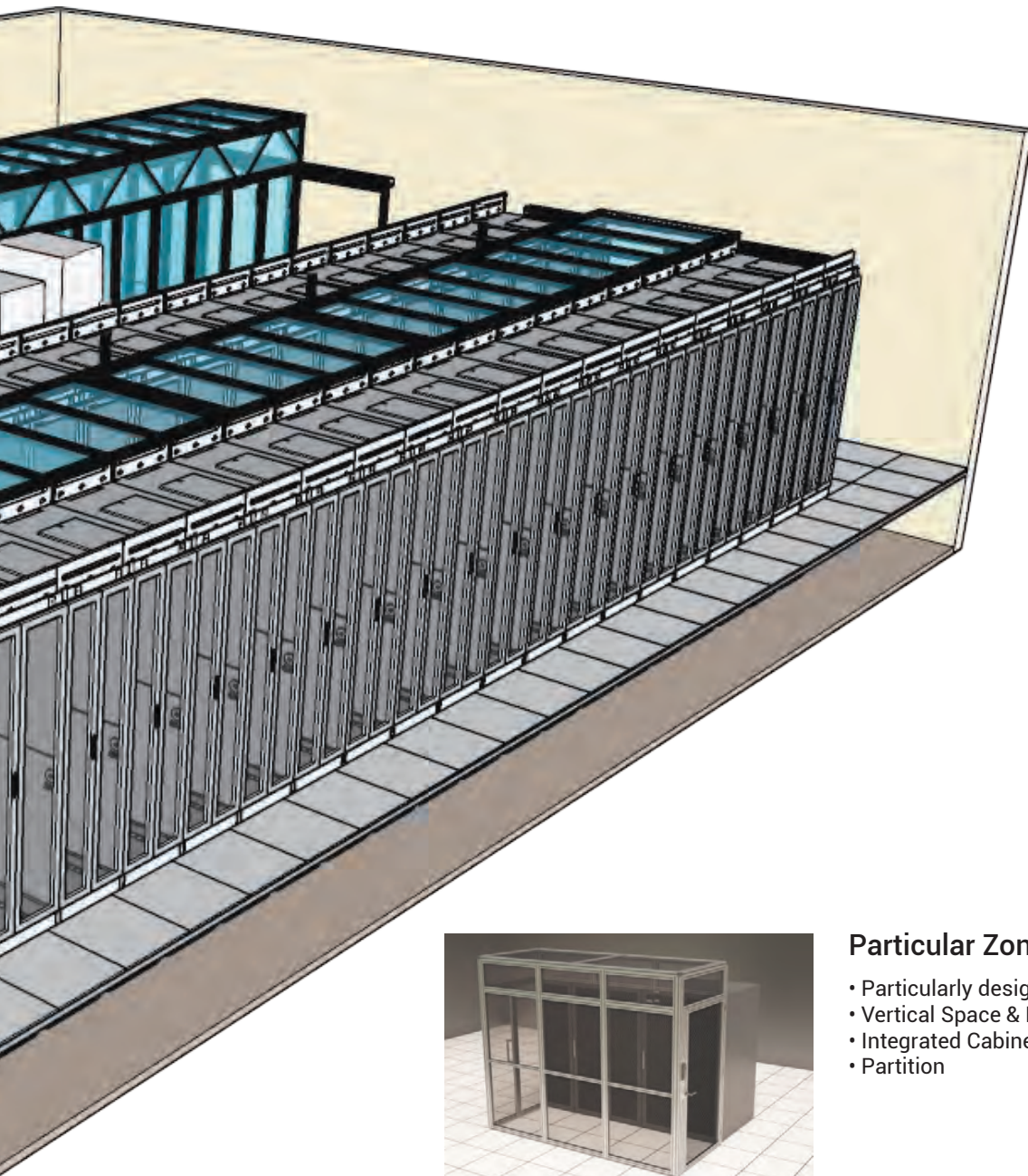
DATA CENTER SOLUTIONS

Rack Cabinet Systems



Physical Security & Access Control

Rack Cabinet, corridor, room, zone and building based physical and environmental security against theft, fire, flood and earthquake shall be maintained and the access to the related zones shall be supervised in data center environments.



Particular Zoning Solutions

- Particularly designed frames;
- Vertical Space & Room Zoning
- Integrated Cabinet Zoning
- Partition



Integrated Physical Security

- Integrated Physical Security;
- Sliding and folding doors designed to enable physical security for a certain zone of cabinets

DATA CENTER SOLUTIONS

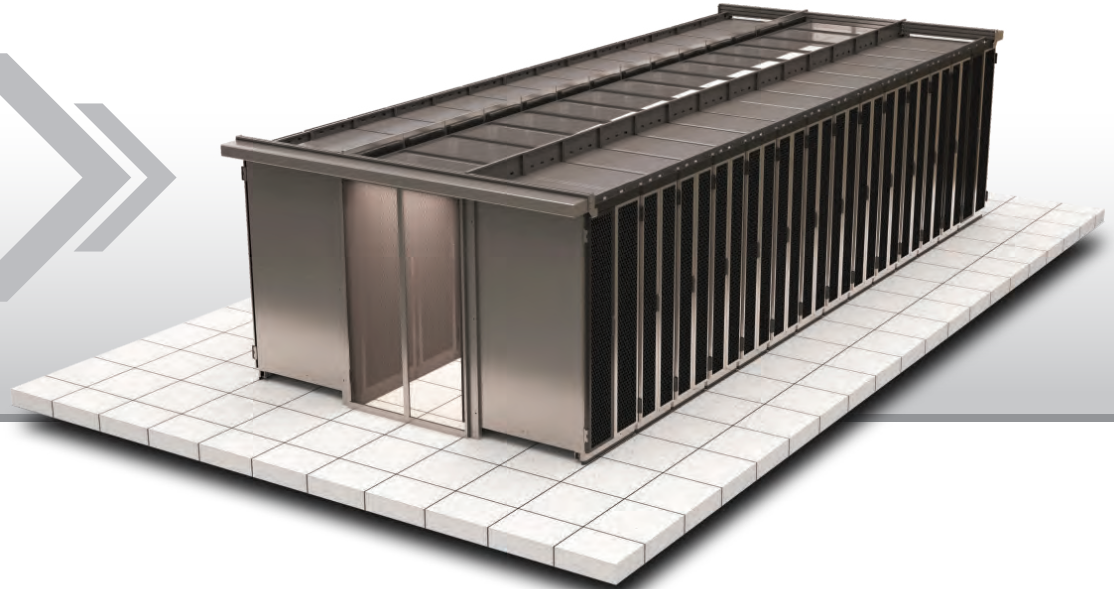
Rack Cabinet Systems



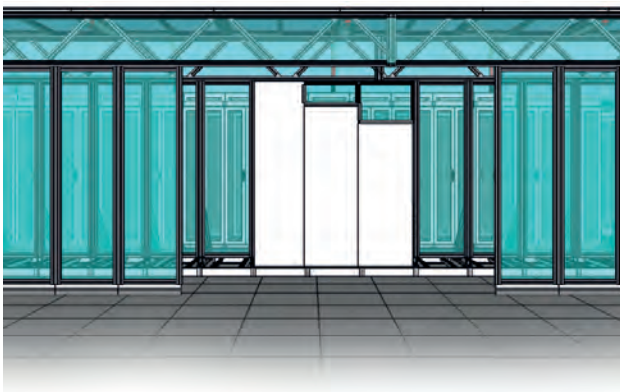
Aisle Containment Solution - Cold Aisle

Cold Aisle Containment for rack cabinets with single or double sliding doors and sliding roof frame units made of aluminum with polycarbonate panel material and fire nozzle entry sections.

KabinPLUS
Cold
Aisle

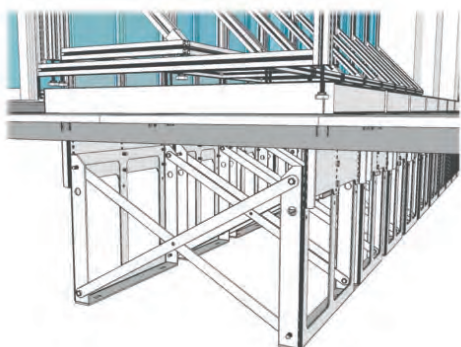


Thanks to the specially designed fixing and flexible plastic isolation elements, the hot aisle chimney can easily be levelled and installed on top of the cabinets ensuring a flexible containment and airflow separation.



Non-Standard Cabinets Containment

Adjustable to various cabinet heights and widths, dummy elements can be deployed to unused cabinet spaces for partition ensuring flexibility and modularity for future growth as well as for the existing non-standard sized rack cabinets & server hardware. Specially designed seismic stands are applied below the raised floor together with the dummy aluminium & polycarbonate frames adjustable to different heights to accommodate non-standard rack cabinets in different dimensions.



Seismic Stand

Seismic stands ensure an independent platform from day 1 for the existing and future rack cabinet installations as well as for non-standard cabinet rows.

DATA CENTER SOLUTIONS

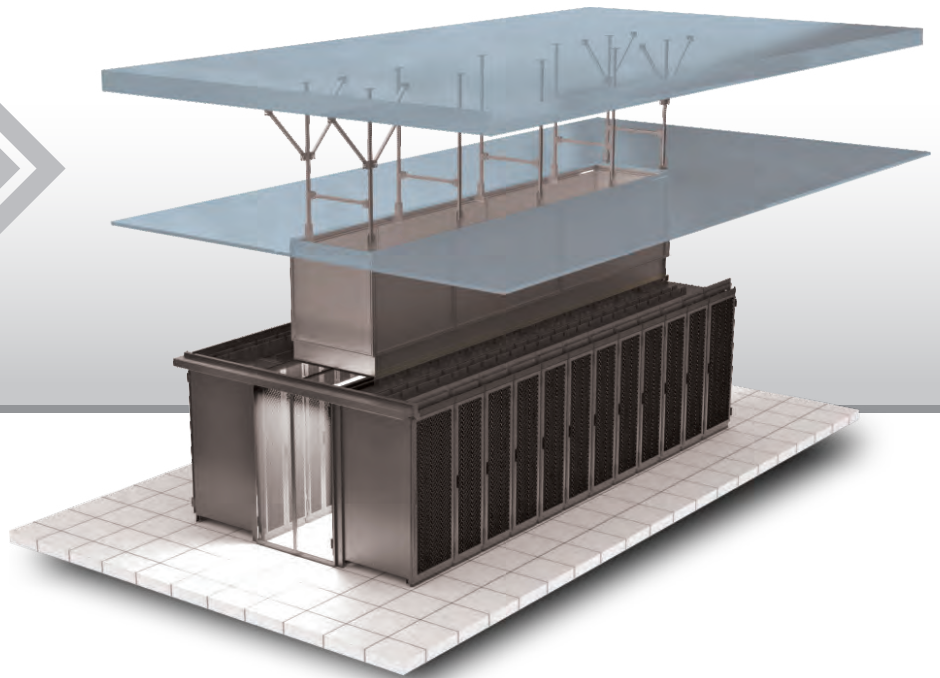
Rack Cabinet Systems



Aisle Containment Solution - Hot Aisle

To ensure hot and cold air insulation to increase energy efficiency in suspended ceiling data center environments, an open chimney system to form the "Hot Aisle" made of aluminum frames with polycarbonate material is utilised where the hot air is directed to the plenum area.

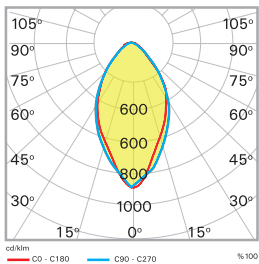
KabinPLUS Hot Aisle



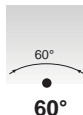
Thanks to the specially designed fixing and flexible plastic isolation elements, the hot aisle chimney can easily be levelled and installed on top of the cabinets ensuring a flexible containment and airflow separation.

INFINO MULTILENS

Surface Mount Linear Tracking System LED Luminaire



- Housing : Aluminium Extrusion
- Operation Temperature: -20°/+55°C
- Light Source: Mid Power LED
- Correlated Light Colors: 4000K (3000-5700-6500K optional)
- Optical Degree Options: 60° Lens (Asimetric – Double Asimetric 30°/90° - 60° optional)
- Light Efficacy: 142.8 lm/W
- Operation Voltage: 220-240V AC, 50/60Hz
- Power Consumption: 44.1W



DATA CENTER SOLUTIONS

Data Center References

EAE

DATA CENTER References List

- @Home, Groningen
- Abu Dhabi Judiciary Department Data Center, Abu Dhabi
- Accelerated, Frankfurt
- Adalet Bankaliği IT Center, Istanbul
- ADJD PI Research Center, Abu Dhabi
- Airbus A29, Colomiers
- AIS SILA, Thailand
- Akbank Sabancı Center, Istanbul
- Alcatel Lucent Data Center, Istanbul
- Al Rumaith Data Center, Ksa
- Ancotel, Frankfurt
- Antares Bailly, Romainvilliers
- Aselsan IT Center, Ankara
- Asko Data Center, Oslo
- Astra Zeneca, Cambridge
- AXA Berchem
- Bahnhof AB Data Center, Stockholm
- Banco di Desio, Seriate
- Bank of America, Chennai
- BASE Aartselaar
- Basefarm, Oslo
- BCE GD, Luxembourg
- BNP PARIBAS; Romainvilliers, Bastogne, Vaux sur Sure,
- Borealis Data Center, Reykjavik, Iceland
- Boruce Tach Park, Bangalore
- Brigade Metropolis, Cognizant, Bangalore
- Brigade Tech Park, Bangalore
- British Telecom, LOT1&LOT2, Netherlands
- Cable & Wireless, München
- Calculationcenter Regio Politie, Amsterdam
- Cap Gemini, Docklands UK
- Ced, Regione Toscana
- CEL Streak Software Park, Bangalore
- Cineca, Bologna
- Centraal Justitieel Incasso Bureau, Leeuwarden
- Cibicom Data Center, Denmark
- Cisco; Brussels, Amsterdam
- CitiBank Global Data Centre, Chennai
- Citibank, Thailand
- Clément Ader, Toulouse
- COLT, Les Ulis
- Computer Gross, Italy
- Crédit Agricole, Chartres
- CSIC Superior Council of Scientific Research, Madrid
- CVI Computercentrum, Utrecht
- Daimler RZ Geb. 11-2, Sindelfingen
- Data4 DC Cornaredo, Milan
- Datacenter Arnhem, Arnhem
- Datacenter BIT, Ede
- Datacenter De Bunker, Kloetinge
- Datacenter Flowtraders, Amsterdam
- Datacenter ITB2 Ecofactorij, Apeldoorn
- Datacenter Main Cubes, Amsterdam Schiphol
- Datacenter Mediapark, Hilversum
- Datacenter MUC 1, München
- Datacenter National Public Service Broadcasting, Hilversum
- Datacenter of Customs, Tver
- Datacenter Sjöbo Kommun, Sweden
- Datacenter World Stream, Naaldwijk
- Datacloud, Brussels
- Datahouse, Alkmaar
- Dataplace (Proserve), Alblasterdam
- Dataplex, Hungary
- Datazaal Hoofdkantoor RABO, Utrecht
- DC Smart (Van Nelle), Rotterdam
- DC05, Marcoussis
- Dammam 7 Data Center, Ksa
- Denizbank Data Center, Istanbul
- DETE-Immobilien, Stuttgart
- Deutsche Bank, Bangalore
- Deutsche Bundesbank, Germany
- Deutsches Klima Rechenzentrum, Hamburg
- DFAS Data Center, Norway
- DGR Telekom, Bursa
- Digiplex, Oslo
- Digital Realty, Amsterdam
- Doclerpro, Hungary
- DORA 2012
- DPC Data Center, Tver
- DROSBACH Cloche d'Or GD, Luxembourg
- DSP 3' Data Center Project, Russia
- DTO, Ministry of Defence, Airport Woensdrecht
- Equinix, Pantin-Paris
- Equinix, Amsterdam
- Equinix, Oman
- Equinix, Frankfurt
- Equinix, Istanbul
- Equinix, Milan ML2

DATA CENTER SOLUTIONS

Data Center References



- Equinix, Munich
- Equinix PA4.4 Pantin (93), France
- Equinix PA9 Paris, France
- Equinix, Perth
- Equinix, Sydney
- Ericsson AB, Linköping Gen-Power, Sweden
- ESDC Data center - Mumbai
- ESDS Solutions, Mumbai
- Etisalat Data Center - Khalifa City, Abu Dhabi, Al Ain,
- EU Networks, Halfweg
- EUROCLEAR Brussels
- EURONET II Brussels
- Evoswitch, Haarlem
- EVS Liège
- Fastweb (Internet provider) - Firenze, Bergamo, Roma, Bari, Catania, Palermo, Napoli
- Finansbank IT Center, Istanbul
- FORUM II Brussels
- France Telecom-Orange, Rueil Malmaison-Aubervilliers-Val de Rueil
- Free-Iliad, Vitry-sur-Seine
- Global Switch, Clichy
- Göteborgs Energi HK, Sweden
- Green Data Center - ABB, Switzerland
- Greenwich View Data Center, UK
- Grid Telekom, Ankara
- Halkbank Data Center, Istanbul
- HCL Infosys, Chennai
- Hoddesdon Data Center, UK
- Hyde Park Hayes Rackspace Data Center, UK
- Hydro66 Hydroelectric Data Center, Sweden
- IBM Data Center; Brussels, Greenford, Hurley, Bangalore
- IDFC Bank Chennai, India
- Imagination North London Data Center, UK
- InfraServ, Hürth
- Intel, Bangalore
- Interxion (La Courneuve, Paris), France
- Interxion AMS3, Schiphol Rijk, Netherlands
- Interxion MRS3, Marseille
- Interxion PAR8 Paris, France
- Interxion PAR9 Paris, France
- IP Only, Stockholm
- Irideus, Milan
- İş Bankası Operational Center Data Center, Istanbul
- İş Bankası Tuzla Data Center, Istanbul
- İTÜ National High Accuracy Calculation Center, Istanbul
- IX - EUROPE, Frankfurt
- Ixcelerate Data Center, Moscow
- KBC Datacenter, Leuven
- KKB Credit Registration Center Data Center, Istanbul
- KPN, Drentestraat, Amsterdam
- Kuveyt Türk Banking Station Data Center, Istanbul
- Khazna, Data Center
- L&T Data Center, India
- L&T, Chennai
- LCL Belgium, Brussels
- Level 3, Amsterdam
- Linköpings University Data Hall, Sweden
- Lucent Technologies, Bangalore
- Malta Data Center, Malta
- MAN RZ LDR-Gebäude, Dachau
- Megafon Data Center, Samara
- Mobily Abhur, Jeddah
- Mobily Data Center Obhur, Ksa
- Mobistar, Liège
- MTS Data Center, Novosibirsk
- Muscat International Airport MC3, Oman
- Natixis, Melun-Bailly
- Netmagic, Bangalore
- NEXT DC, (Sydney-2, Melbourne-2, Brisbane-2, Perth-2) Australia
- Nirlon IT Park, Mumbai
- Nournet, Riyadh
- Nova Data, Eindhoven
- Noovle, Moncalieri
- Noovle, Rozzano
- Noovle, Cassina de Pecchi
- NXS, Amsterdam
- Office Complex Datacenter Muscat, Oman
- Old Reel Store Scotland Data Center Phase 1 & 2, UK
- Optiver, Amsterdam
- Orange, Val de Reuil
- Orange, Chartre
- Polizia di Stato, Bari
- Poste Italiane, Roma
- RABO Bank, Dealingroom, Utrecht
- Radore Telekom Metrocity Data Center, Istanbul
- RAM Mobile Data, Utrecht
- RBS Bank, Birmingham
- Rechenzentrum Airbus, Ottobrunn
- Rechenzentrum EDEKA, Würzburg
- Rechenzentrum RTL, Luxemburg
- Rechenzentrum Universität, Konstanz
- Sabic Headquarter Data Center, Ksa
- Salpuria Tech Park, Bangalore
- SB-SB, Handelsbanken, Sweden
- Safehost SH2, Gland, Switzerland
- Selectel Data Center, Moscow and St. Petersburg
- SGK (Social Security Institution) Data Center, Ankara
- Signal Corp. Data Center, Qatar
- Sky, Roma
- SMALLS Brussels, Belgium
- SNCF Socrate - Phases 1 & 2, Lille
- Société Générale, Fontenay
- Sogei, Roma
- Sparkle Telecom Palermo, Sicily
- Stadtwerke Herne RZ TMR, Germany
- Statistic Landesamt Bayern, München
- SWIFT Brussels, Belgium
- Take Solutions Data Center, India
- T-Com Zentrale, Hamburg
- TCS (Adibatla, Hinjwadi, Infopark, Powoi, Sez Bajarat, Trivendrum), India
- TDC, Oslo 2011
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- TeleCity – Phases 1 & 2, Courbevoie
- TeleCity AMS2 & AMS4; Wenckebachweg, Amsterdam
- Telecom Italia - Cesano Maderno, Mestre, Cassina de Pecchi, Rozzano, Aprilia, Acilia
- Telekomunikasyon Communication HQ, Ankara
- The Data Center Group, Netherlands
- THY Data Center, Istanbul
- T-Mobil II, Bonn
- T-Systems, München
- Turkcell, Gebze, İzmir, Ankara, Çorlu
- Türkiye Finans Katılım Bankası Data Center, Istanbul
- Turkuaz Data Center, Ankara
- Twin Datacenters, National Tax Authorities, Apeldoorn
- UK2 GROUP, London
- Uni Credit, Verona
- Unisource Brussels, Belgium
- University of Amsterdam, SARA Computer, Amsterdam
- UOB Operation Center Building, Thailand
- UZ-Leuven Leuven
- Vakıflar Bankası Data Center, Ankara
- Virtu (Equinix AMS1), Amsterdam
- Virtus Enfield Data Center, UK
- Vodafone, Arnhem
- Volta Great Sutton Street Data Center, UK
- Volvo Data, Gothenburg Gen-Power, Sweden
- WE Dare Rivium, Capelle a/d IJssel, Netherlands
- Wide XS, Amsterdam
- Wipro (Bangalore, Cochin, Pune), India
- Woking Data Center, UK
- WTC, Bangalore
- YKBU Yapı Kredi Banking Center Data Center, Istanbul
- Zenium Data Center; Slough, Frankfurt, Istanbul

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