



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

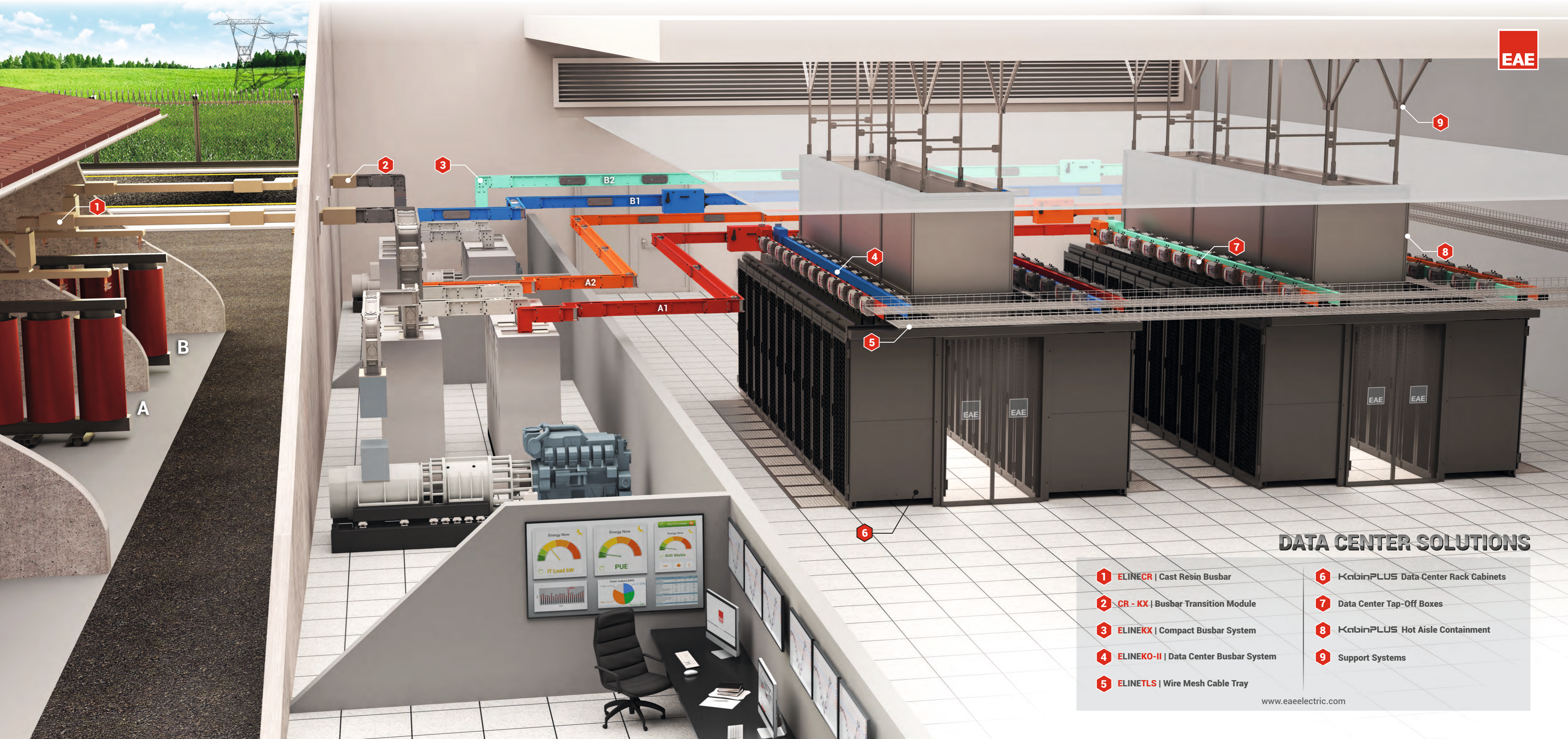
To add value for the customers, increase productivity and quality, to manage competition, we strongly adopt "Lean Production". It is an important tool that helps EAE to act fast, create wide product portfolio and reduce manufacturing costs.



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.





DATA CENTER SOLUTIONS

- 1 **ELINECR** | Cast Resin Busbar
- 2 **CR - KX** | Busbar Transition Module
- 3 **ELINEKX** | Compact Busbar System
- 4 **ELINEKO-II** | Data Center Busbar System
- 5 **ELINETLS** | Wire Mesh Cable Tray
- 6 **KabinPLUS** Data Center Rack Cabinets
- 7 Data Center Tap-Off Boxes
- 8 **KabinPLUS** Hot Aisle Containment
- 9 Support Systems

DATA CENTER SOLUTIONS

Company Profile



EAE Group in numbers;



270.000m²

Closed Manufacturing Area

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

1973

Year of Foundation

Founded : in 1973
Closed Manufacturing Area : 270.000m²
Range of Products : Busbar Power Distribution Systems
Lighting Busbar Systems
Cable Tray Systems
Underfloor Trunking
Trolley Busbar Systems

6

Manufacturing Plants

Companies : EAE Elektrik
EAE Lighting
EAE Elektrotechnik
EAE Technology
EAE Machinery

100+

Countries of Export

Number of Plants : 6

"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.

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:

- Busbar Power Distribution Systems (by EAE Elektrik)
- Cable Tray and Support Systems (by EAE Elektrik)
- Rack Cabinets & Containment Systems (by EAE Elektrotechnik)

DATA CENTER SOLUTIONS

Company Profile



Supervision Services

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



Busbar Software, 3D and Revit Modelling

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



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

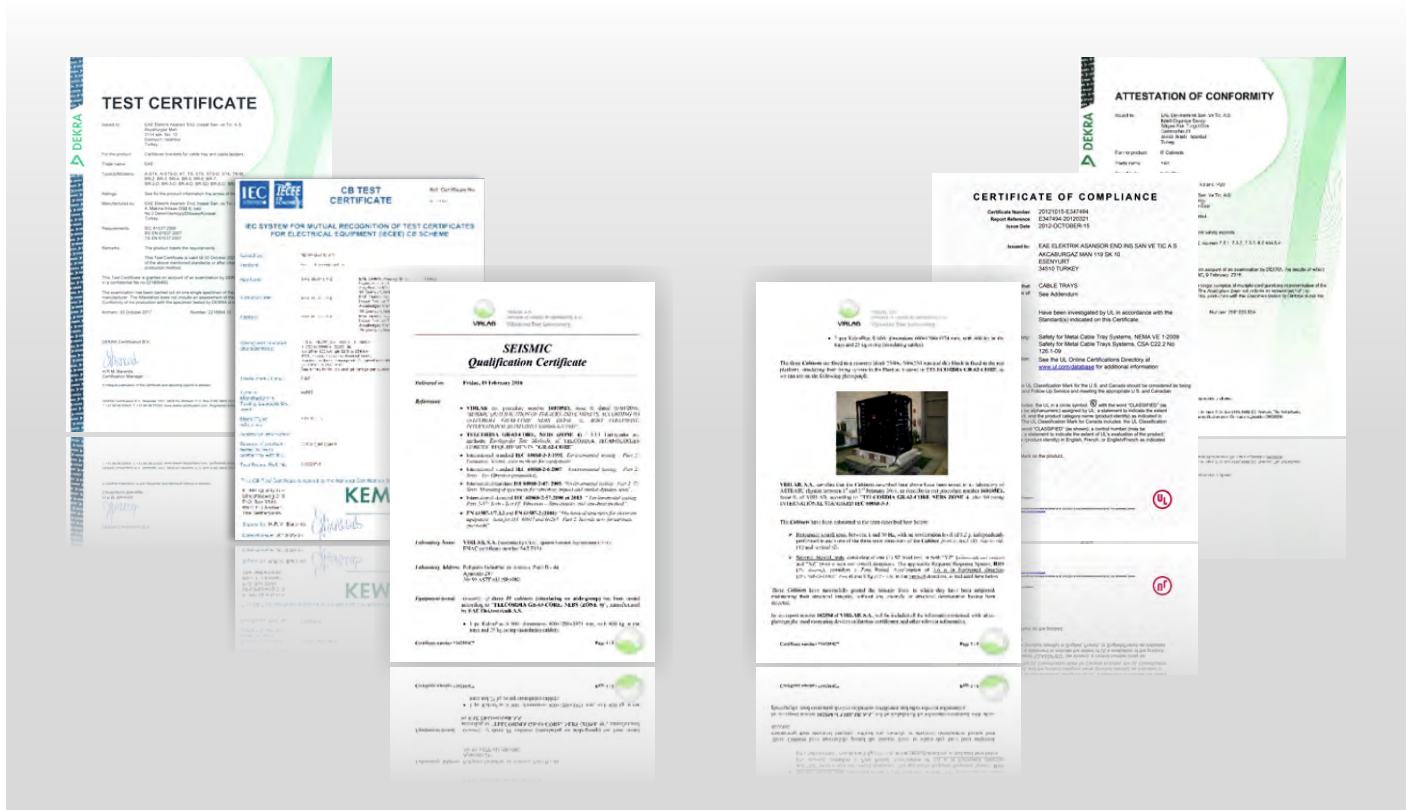


Pre-Sales Customer Services

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



Certificates



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.

SCALABILITY

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.

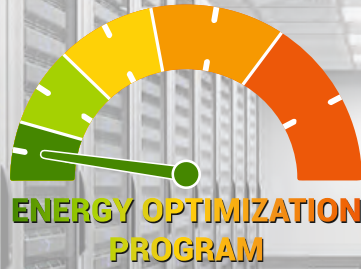
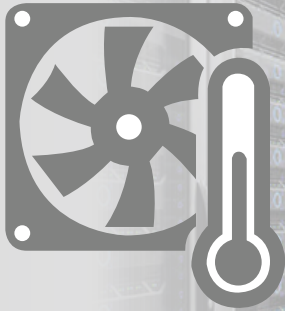
SECURITY

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.

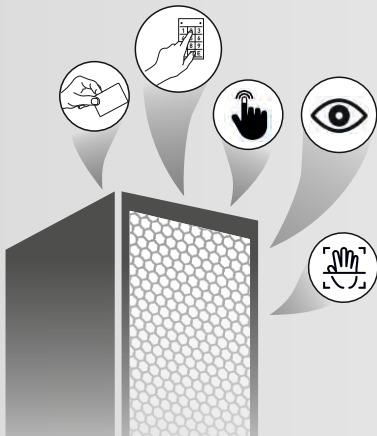
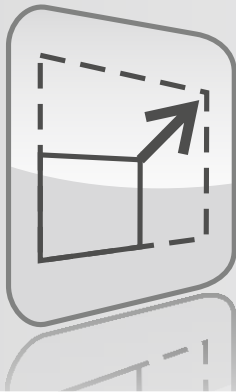
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Challenges



ENERGY OPTIMIZATION PROGRAM

DATA CENTER TIER LEVELS



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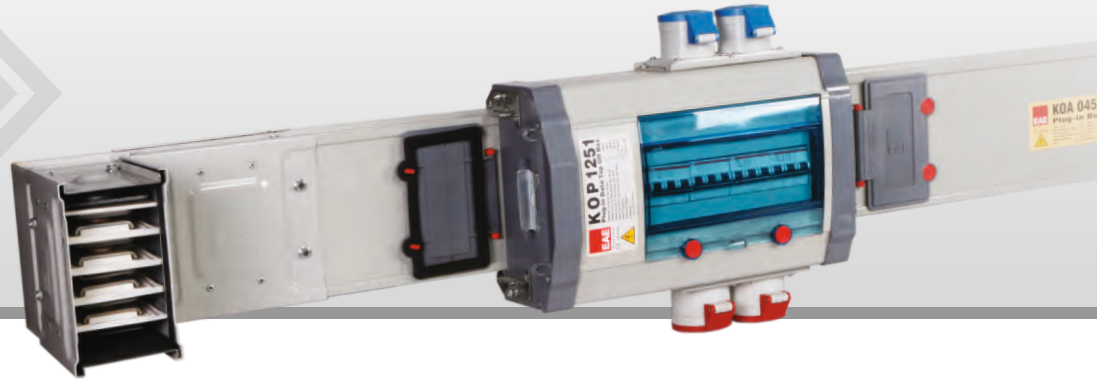
Busbar Power Distribution Systems



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

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.

ELINE
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 400 A

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

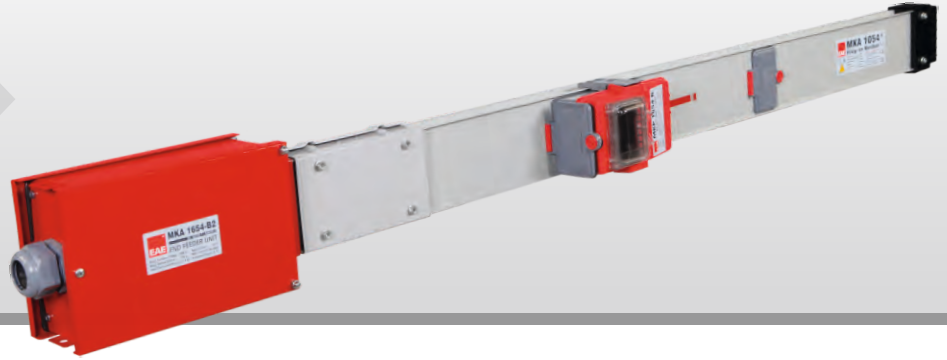
Busbar Power Distribution Systems



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

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

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

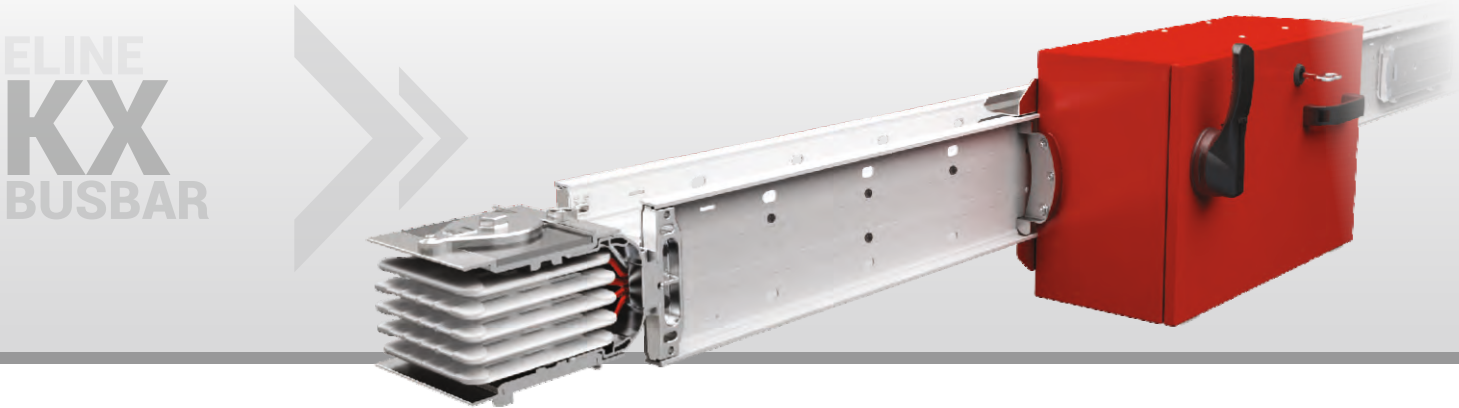
DATA CENTER SOLUTIONS

Busbar Power Distribution Systems



Compact Busbar Power Distribution System 400...7500 A

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.



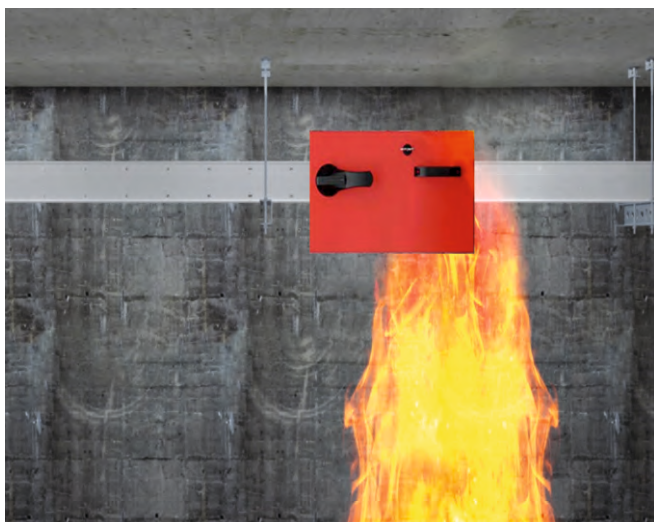
With ratings from 400A to 7500A composed of high conductivity copper and aluminum conductors, the sandwich construction combines insulated conductors in an aluminum housing. Due to its compact design, the EAE E-Line KX Series Busbar System can also be utilized for the data center white space power distribution 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

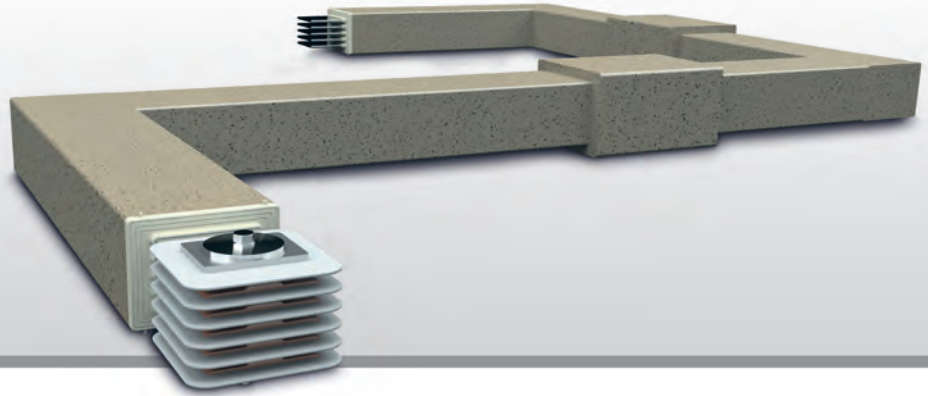
Busbar Power Distribution Systems



Compact Outdoor Busbar Power Distribution System 630...6300 A

The E-Line CR 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
CR
BUSBAR



With ratings from 630A to 6300A, composed of high conductivity copper and aluminum conductors the body of the E-Line CR busbar is formed using DURACOMP, a composite material of epoxy resin and pure silicon which ensures protection against arduous environments with IP68 / IP69 ratings. EAE E-Line CR gives high fault level endurance, good fire ratings and resistance to moisture.

Features:

- 'DURACOMP' composite housing
- Fire resistant (Endurance)
- Halogen free material
- Seismic compliance
- Tin whisker free contacts
- Explosion-proof protection – ATEX certified
- Suitable to connect with E-Line KX busbar systems
- IP68 / IP69
- IK XX protection degree

Applications:

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

EX - Protected

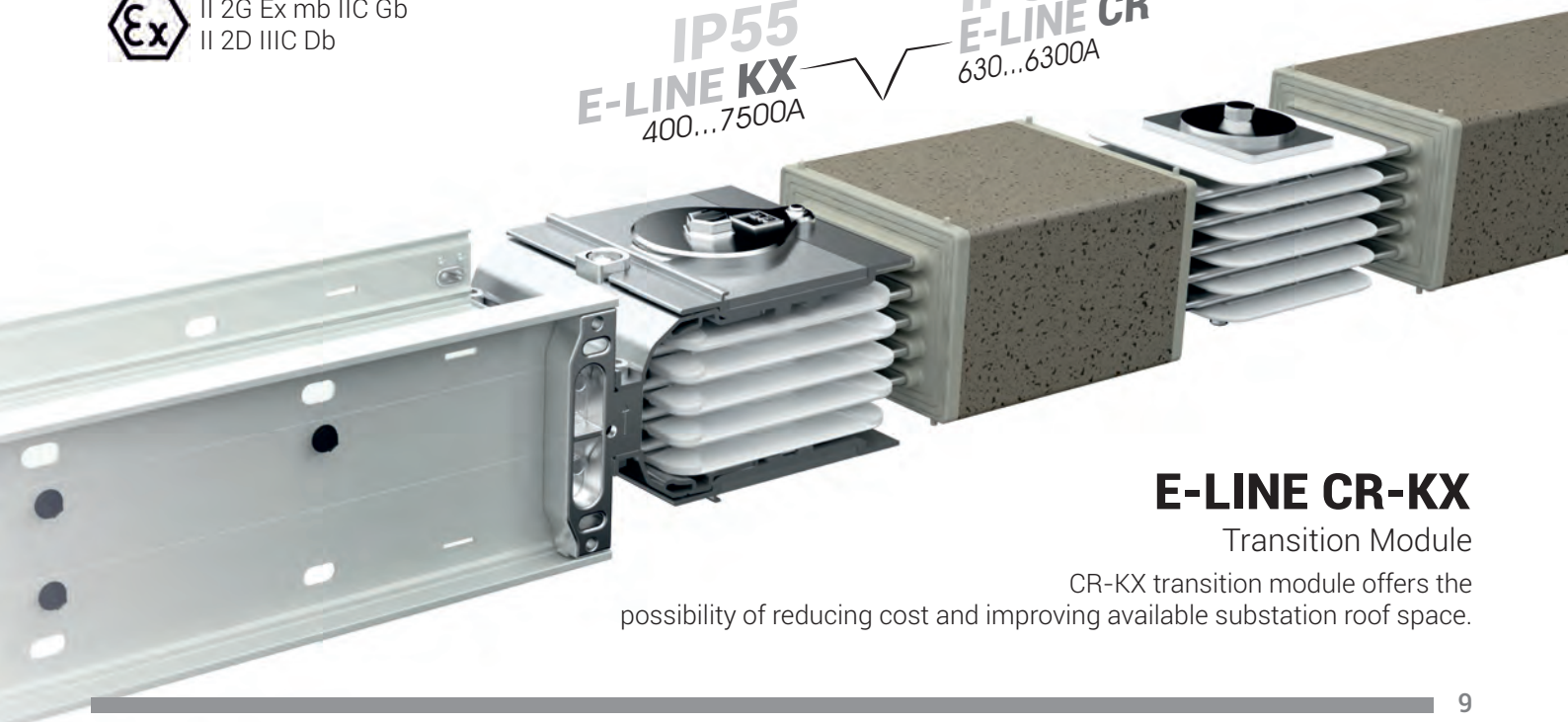
► ATEX as per EN 60079-0:2009, EN 60079-18:2009, EN60079-31:2009



II 2G Ex mb IIC Gb
II 2D IIIC Db

IP55
E-LINE KX
400...7500A

IP68
E-LINE CR
630...6300A



E-LINE CR-KX

Transition Module

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

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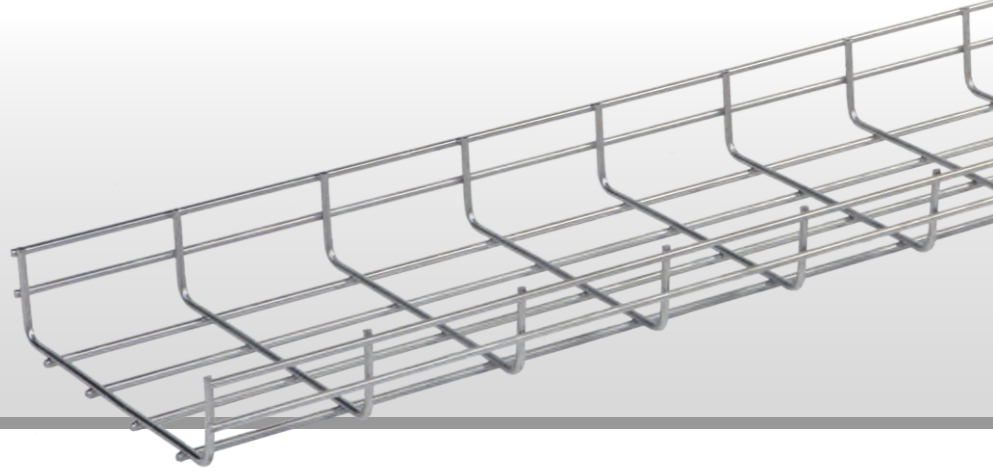
Cable Tray Systems



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



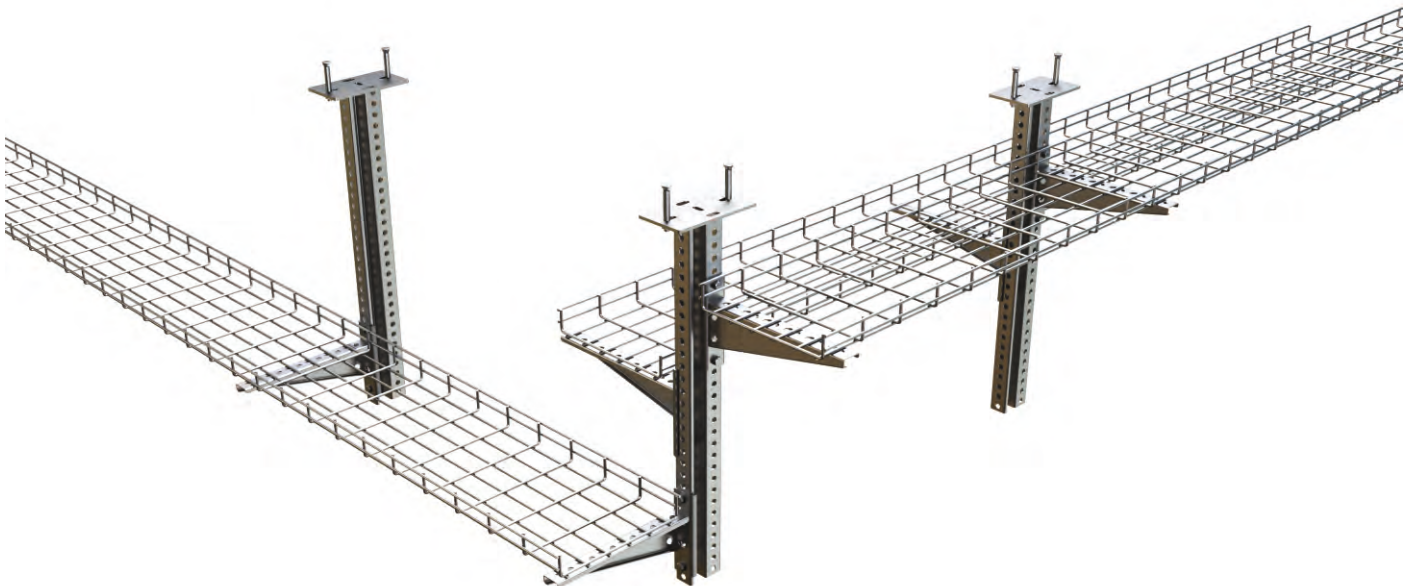
Stainless steel or electro-galvanized wire mesh tray with painted option helps to eliminate the tin whisker problems and provides color coding in the cable pathways. The cage structure and feature rich accessories of the E-line TLS cable trays makes it simple for modular expansion and easy access in-between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

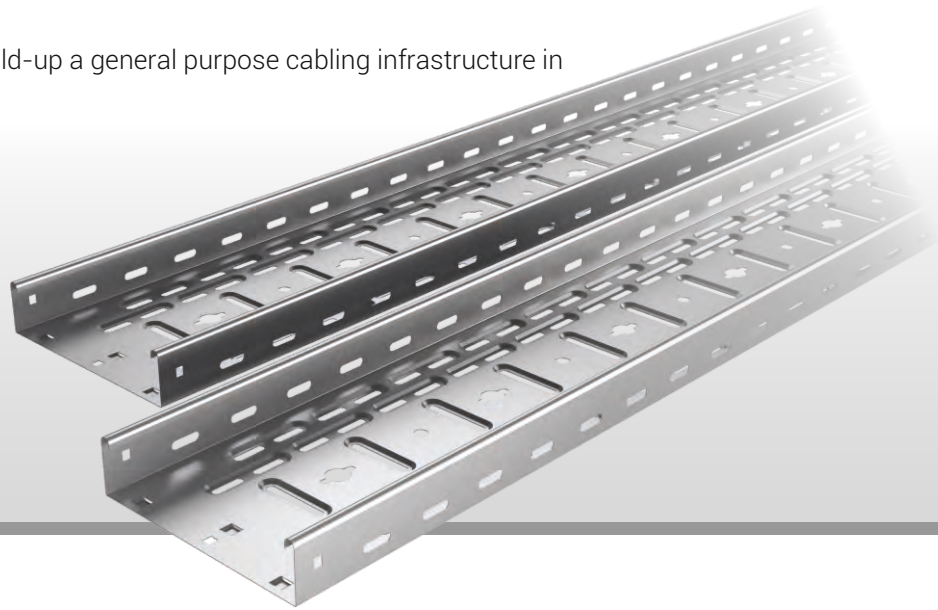
Cable Tray Systems



Pregalvanized Cable Tray Systems

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

E LINE
UKFC



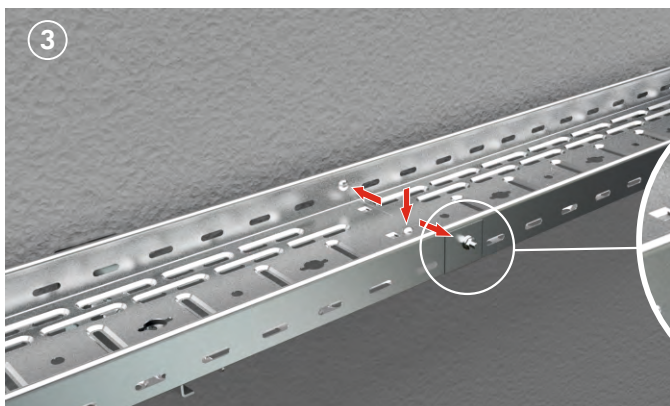
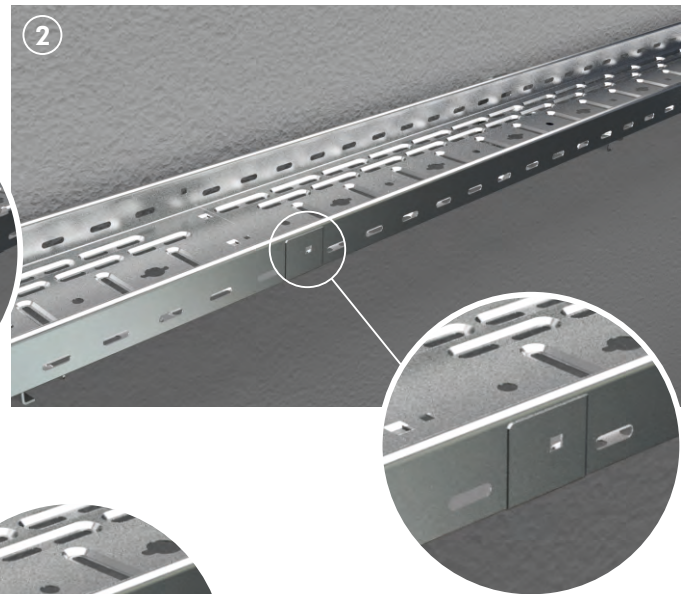
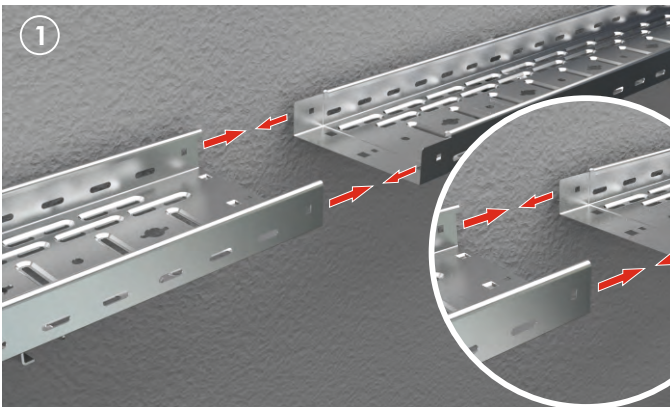
The UKFC cable tray system ensures fast and easy mounting with interlocking mechanism by means of M6 bolts set eliminating the need for additional fittings. Pregalvanized tray with painted option helps to get rid of the tin whisker problems and provides color coding in the cable pathways.

Features:

- In 3050 mm. standard lengths
- Fire resistant (90 min.)
- H40, H50 and H60 mm.
- W100....W600 mm.
- Pregalvanized 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

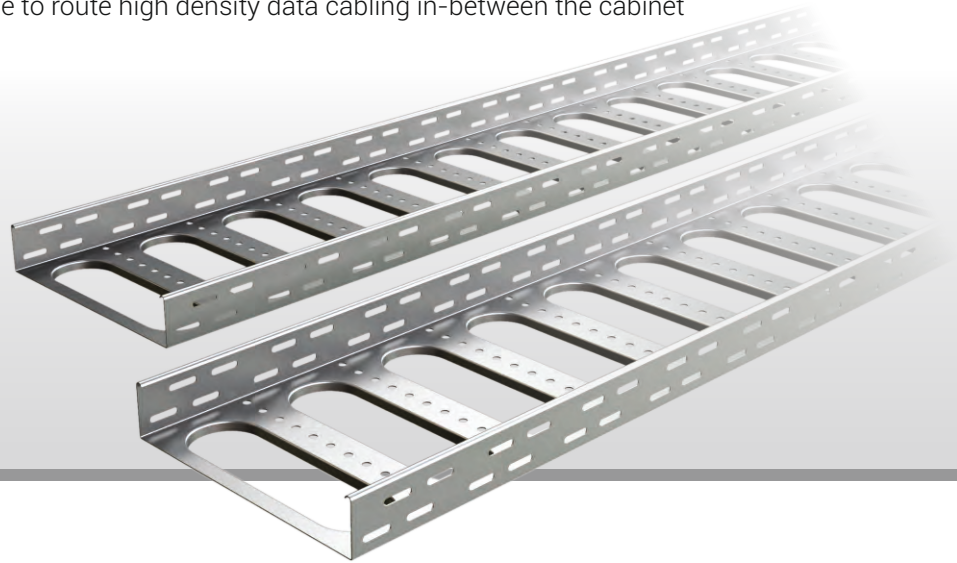
Cable Tray Systems



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



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

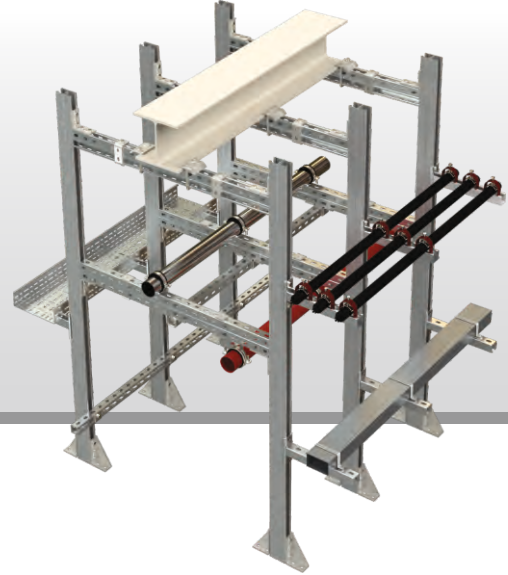
Support Systems



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**



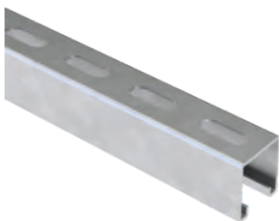
To ensure corrosion resistance and minimize the tin whisker problems, the support systems are manufactured as pregalvanized and hot dip galvanized with electrogalvanized and/or painted accessories



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

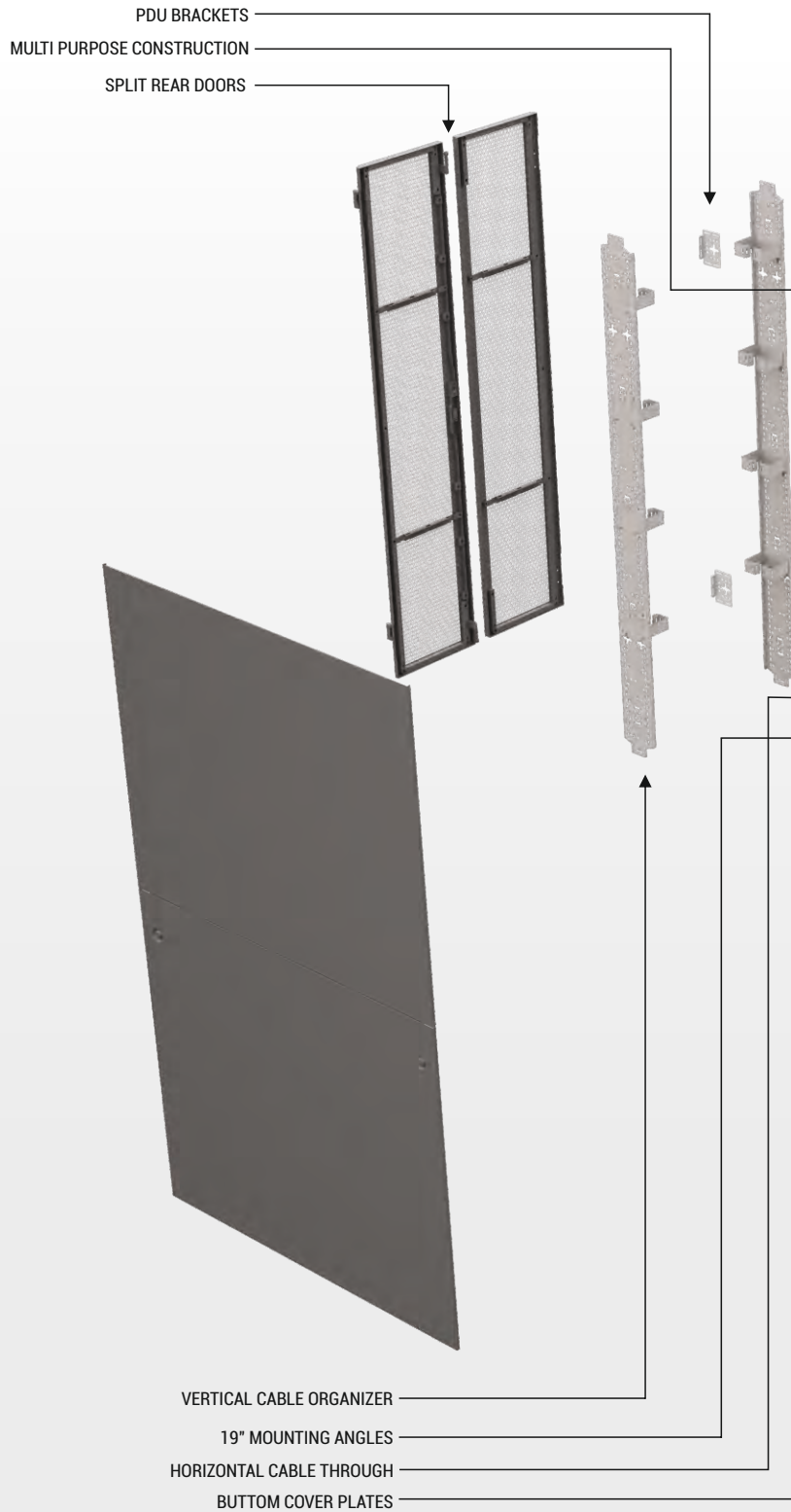
Rack Cabinet Systems



KabinPLUS

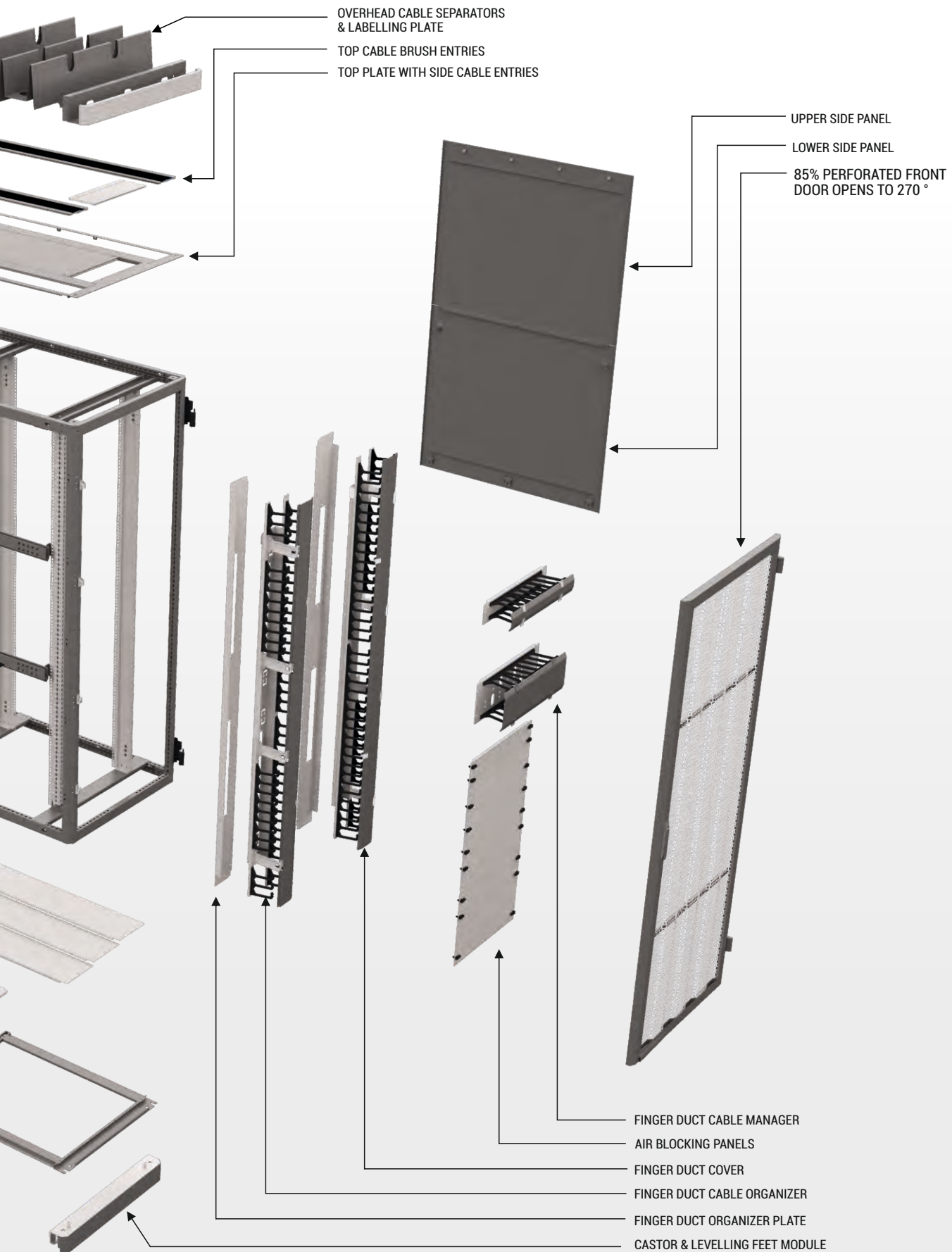
Rack Cabinets

KabinPLUS 19" Data Center Rack Cabinets have been designed to offer high flexibility and efficiency with a robust and anti-seismic core construction for data centers.



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Rack Cabinet Systems



DATA CENTER SOLUTIONS

Rack Cabinet Systems



KabinPLUS
KD
SERVER



KabinPLUS
KD
NETWORK



Doors : single front and split rear doors toolless displaceable-ventilated by 85% perforation, opens to 180/270 degrees when bayed/not bayed

Levelling Feet & Castor Module: heavy duty easy drive levelling feet with castors



Overhead (Roof) Cable Management: toolless mounting of "M" shaped and "A" shaped separators & cable pathways

Vertical Cable Management: plastic finger cable organizer, plastic ring cable organizer, metal ring cable organizer, finger cable duct organizer, vertical cable tray



Electrical Bonding : full electrical bonding of the rack cabinet, doors-side & roof & bottom panels with the reference bonding point

DATA CENTER SOLUTIONS

Rack Cabinet Systems



KabinPLUS
KS
SEISMIC



KabinPLUS
KL
COLOCATION

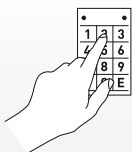


Conformity to Telcordia GR-63-Core, NEBS (Zone 4) standard thanks to its supporting frames and particular construction design

19" Independent Vertical Mounting Rails; easy and independently adjustable for each bay, manually displaceable with U marking on both sides



Locking Mechanisms : various lock choices with open access connectivity



key pad



proximity



finger print



eye retina



palm vein

For the physical security and monitored access to your critical infrastructure, mechanical and electro-mechanical locking, keypad access, proximity card access, finger print, eye retina or hand geometry biometric access and their combinations are among the available choices.

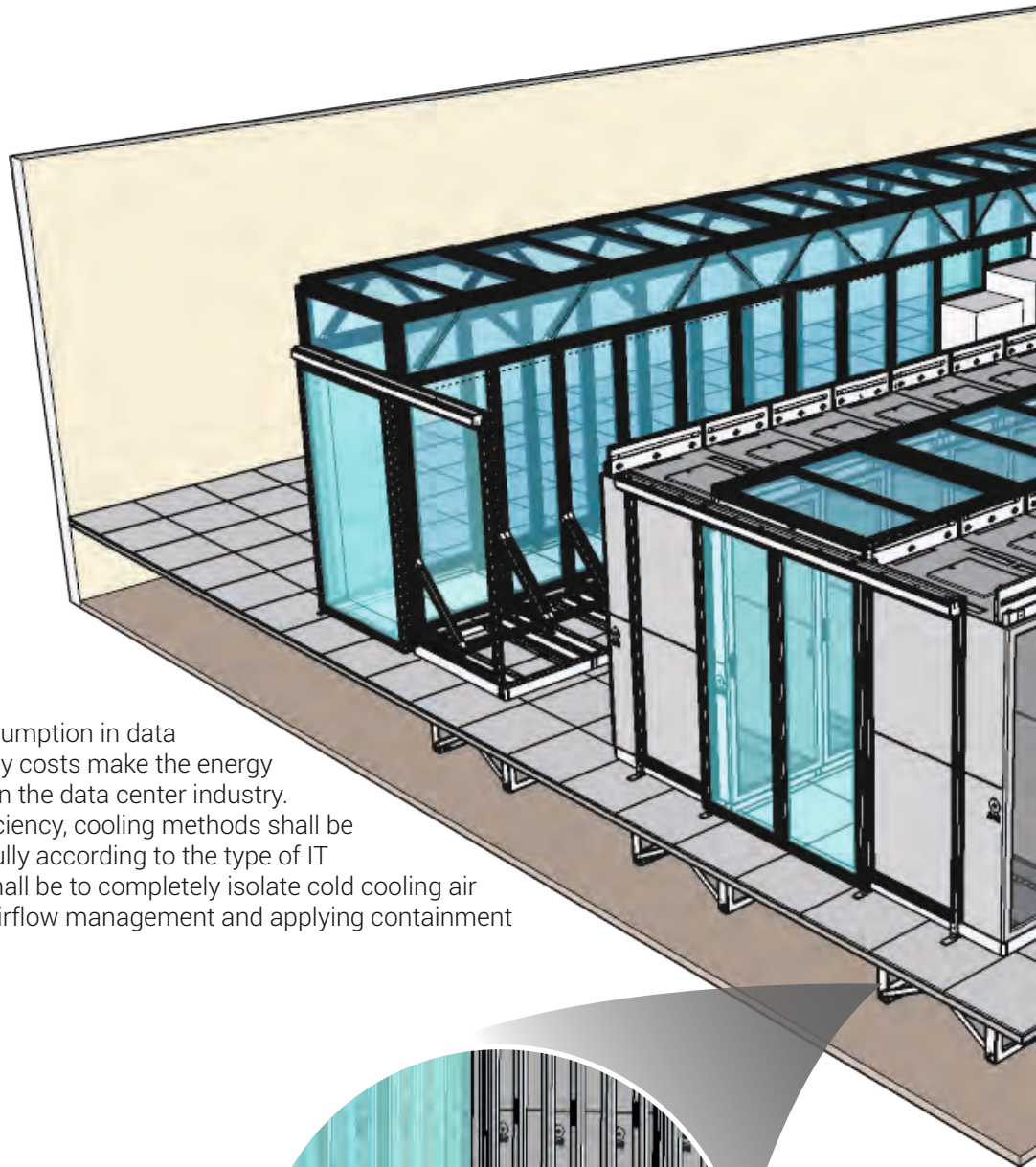
DATA CENTER SOLUTIONS

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.



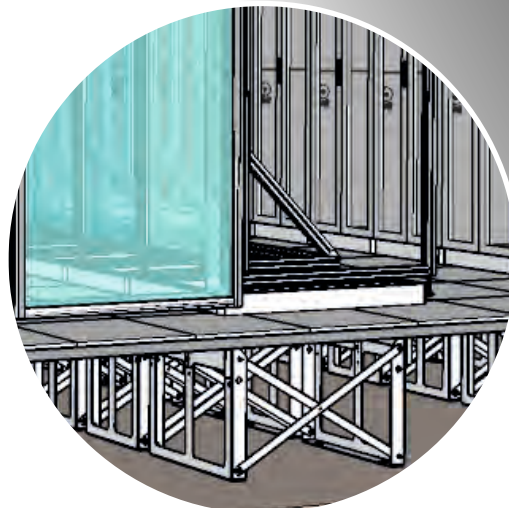
Energy Efficiency

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



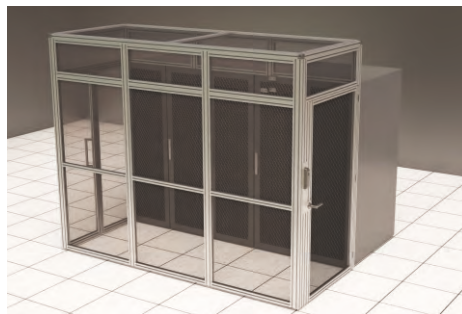
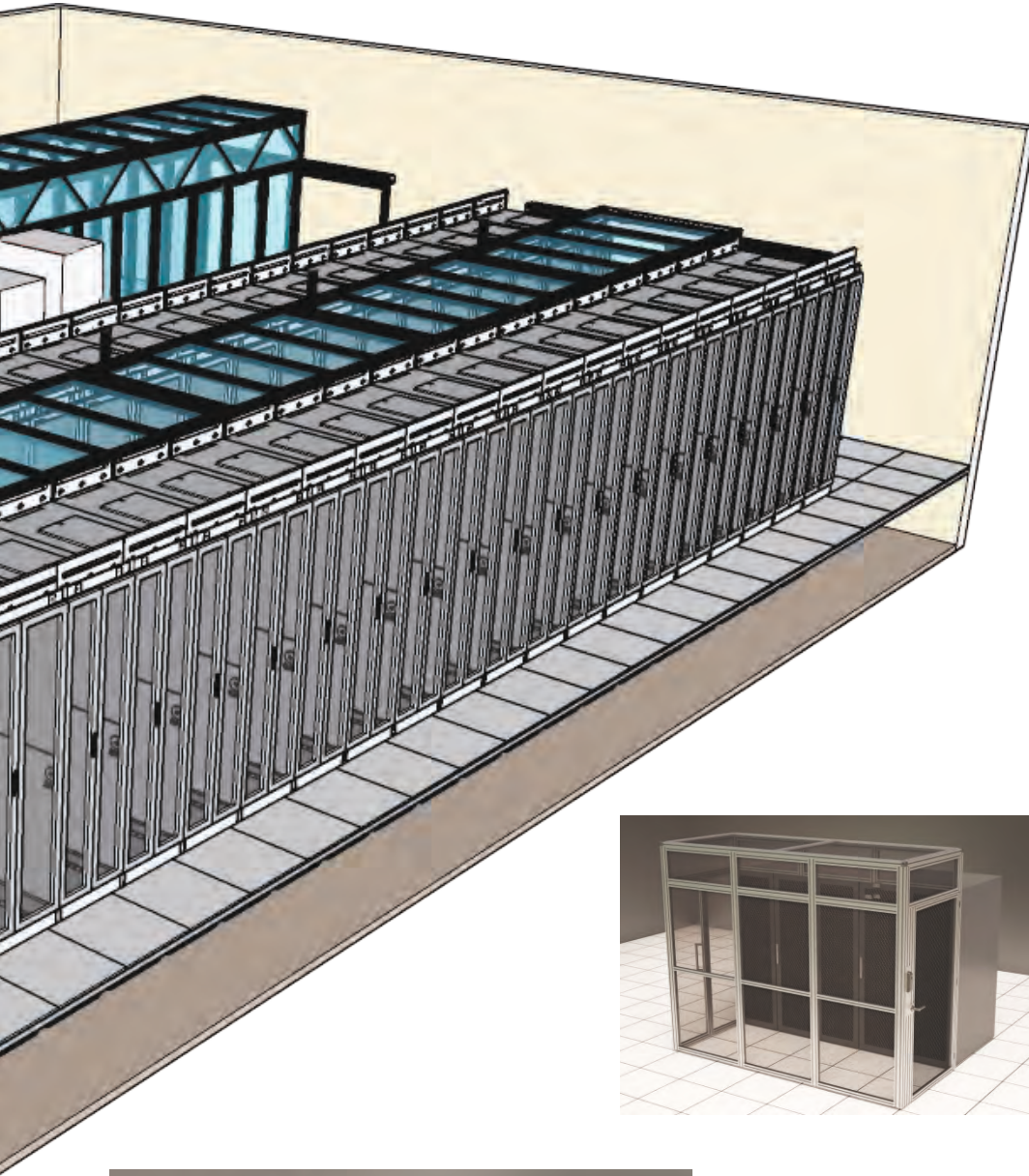
DATA CENTER SOLUTIONS

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

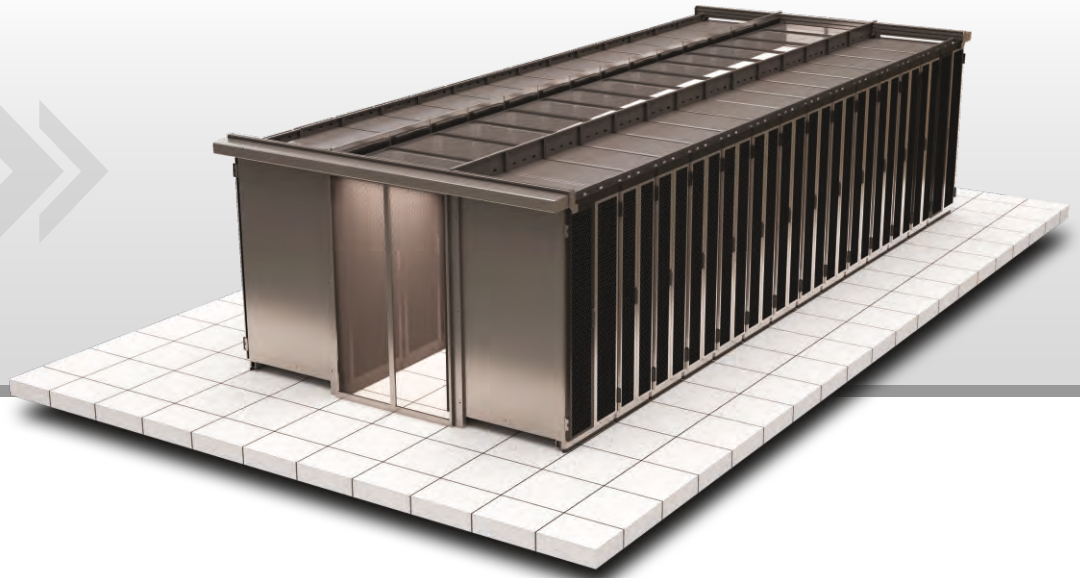


Aisle Containment Solution - Cold Aisle

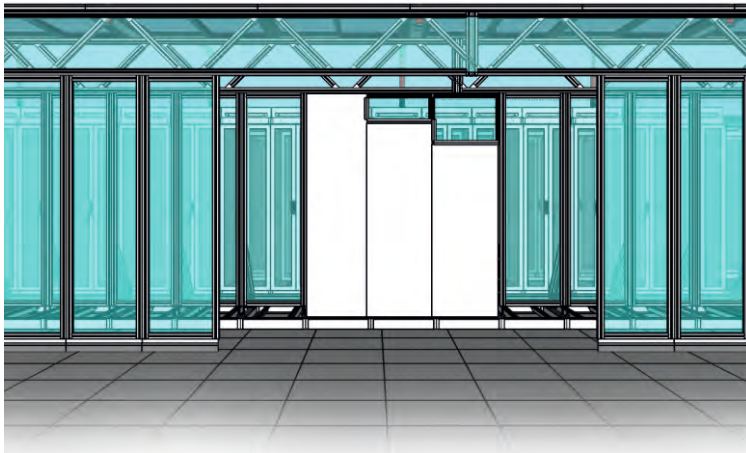
Cold Aisle Containment for rack cabinets with single or double sliding doors and sliding roof frame units made of aluminum with polycarbonate panel material and fire nozzle entry sections.

KabinPLUS

Cold Aisle

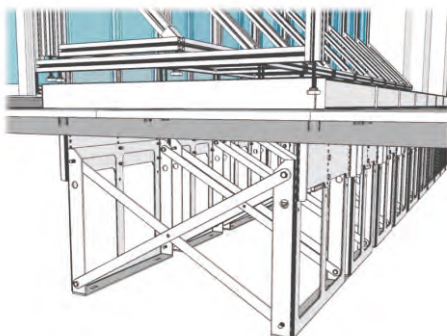


Thanks to the specially designed fixing and flexible plastic isolation elements, the hot aisle chimney can easily be levelled and installed on top of the cabinets ensuring a flexible containment and airflow separation.



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

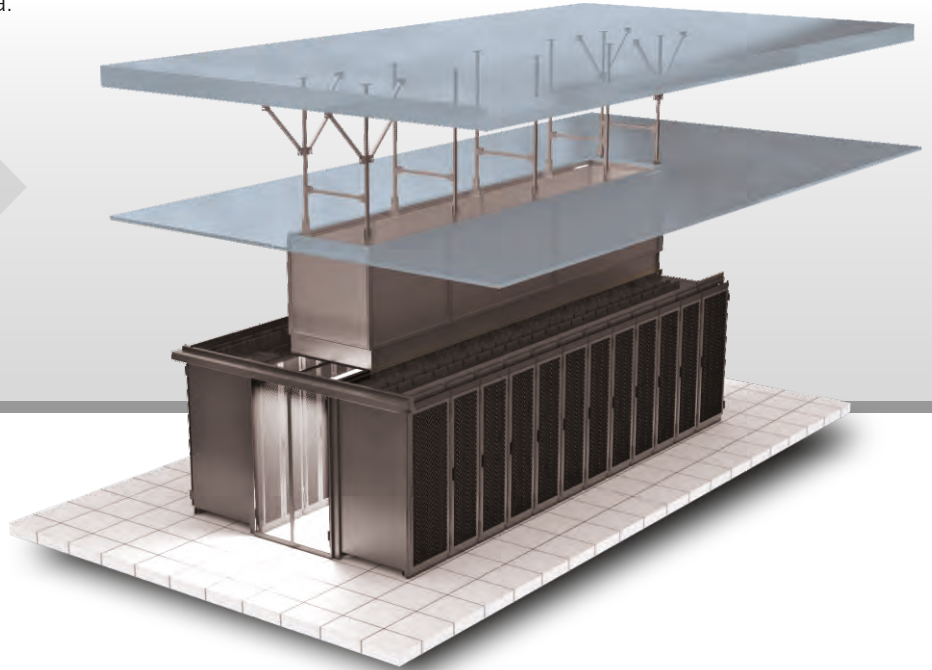


Aisle Containment Solution - Hot Aisle

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.

K-BAR

Containment Corridor Linear LED Lighting Luminaire



120°

Operation Temperature: -20°/+50°C

Light Source: Chip LED

Light Color: Natural White (3800-4200 K)

Beam Angle: 120° without lens

Light Efficacy: 105 lm/W

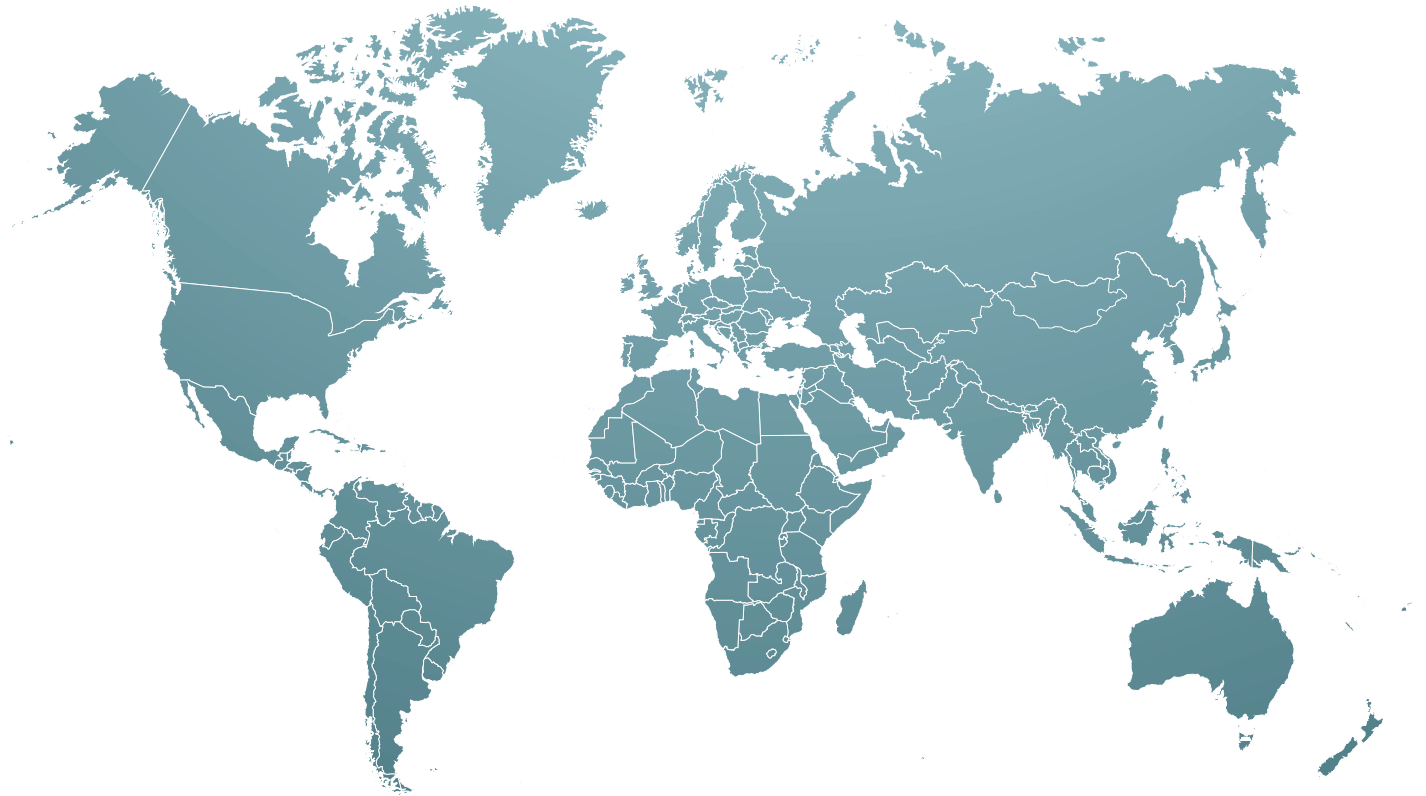
Operation Voltage: 100-240V 50/60Hz.

Power Consumption (W): 10W/m



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Data Center References



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References List

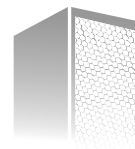
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