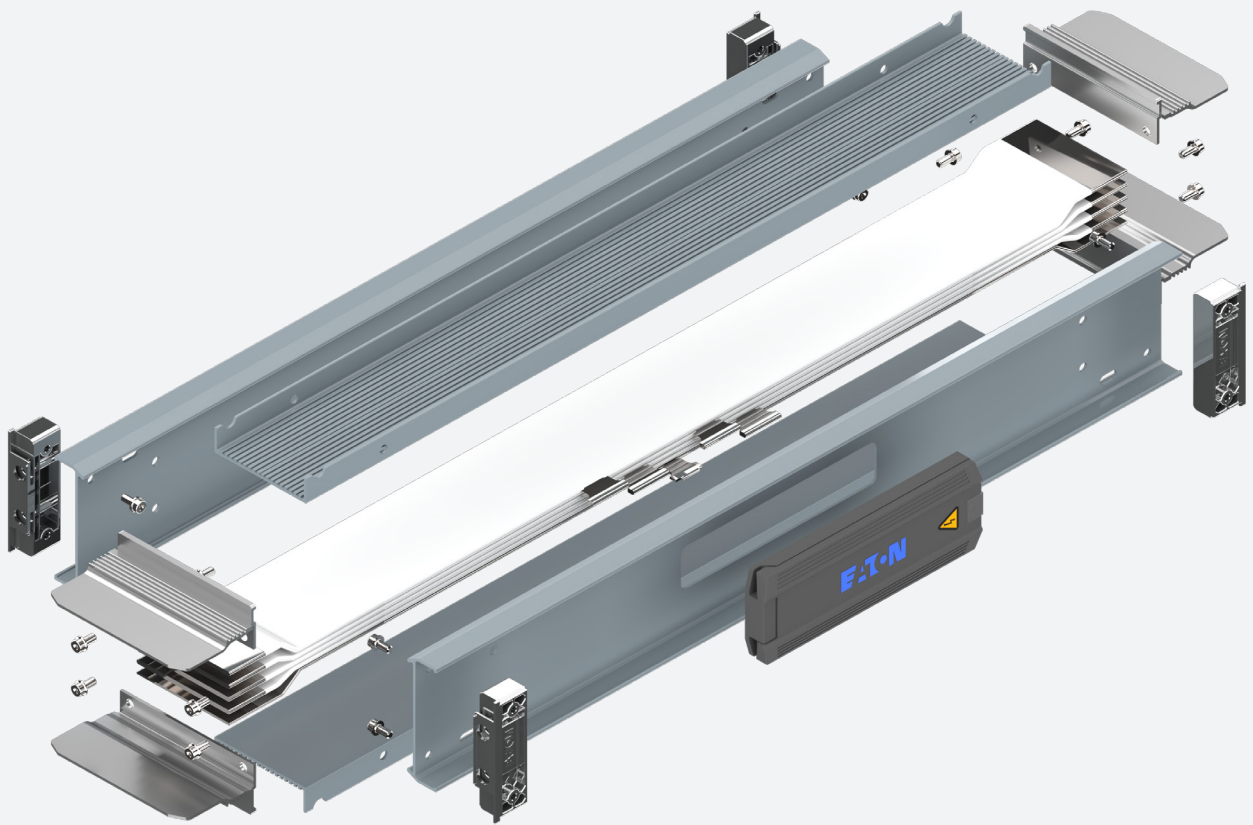


XAP Busway

XAP-B Series Compact Busway

Rated Current 400-5000A

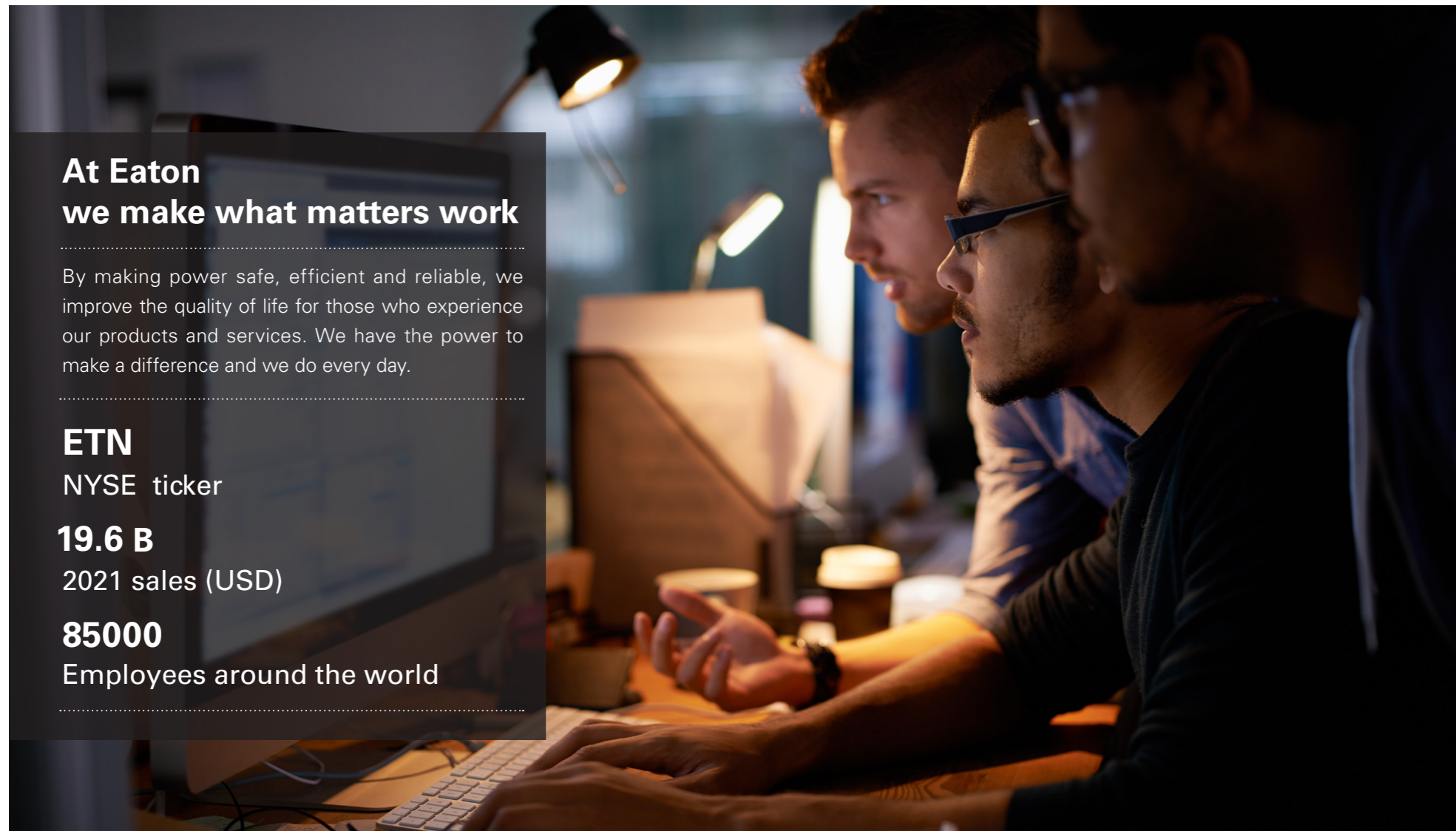


EATON

Powering Business Worldwide

We're dedicated to improving people's lives and the environment with power management technologies that are more reliable, efficient, safe and sustainable.

We are a power management company doing business in more than 175 countries. Our energy-efficient products and services help our customers effectively manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably. By giving people tools to use power more efficiently. Helping companies do business more sustainably. And by encouraging each and every employee at Eaton to think differently about our business, our communities—and the positive impact we can have on the world.



**At Eaton
we make what matters work**

By making power safe, efficient and reliable, we improve the quality of life for those who experience our products and services. We have the power to make a difference and we do every day.

ETN
NYSE ticker

19.6 B
2021 sales (USD)

85000
Employees around the world

CATALOGUE

Product features	/ 12
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System selection	/ 17
Physical data	/ 18
Functional unit standard dimension	/ 20
Flanged end	/ 25
Production selection	/ 26
Connection with equipment	/ 28

SINCE 1911

Eaton was founded by Joseph Eaton in 1911 and started to produce Power distribution buway in 1935.

Eaton's continuous innovation in the busway product line not only ensures the economy and reliability of its solutions, but also integrates excellent technology that can be installed horizontally or vertically. To seek the perfect combination of technical performance and exquisite design, Eaton XAP series busway system will be your wisest choice.

Based on local manufacturing

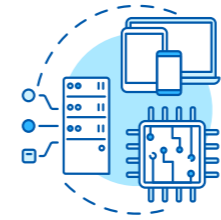
Eaton Busway (Jiangsu) Co.,Ltd

According to Eaton's innovative spirit, one hundred years of technology accumulation and the development ability of the Asia Pacific market, Eaton busway factory has continuously introduced new products, It has realized the independent R & D and manufacturing of busway in the Asia Pacific region, providing customers with high-quality products and satisfactory solutions.



Top manufacturing solutions

Eaton busway manufacturing plant covers an area of 12,000 square meters and has the industry's top manufacturing solutions to fully ensure the high-precision manufacturing of products.



Advanced insulation technology

Self research and development fully automatic Polyester film insulation wrapping equipment Improve the standardization of product manufacturing



Full automatic busway assembly line

integrating assembly, inspection and packing together, effectively guarantees delivery time and greatly improves project execution.



Intelligent warehousing improves delivery efficiency

Intelligent warehouse can accept more busway, and the storage capacity is 4 times that of the traditional warehouse.



Dispatching center makes service faster

Online dispatching of national technical service staff view the progress of various services in real time make pre-sales and after-sales service more worry free



Refinement of production management

Standardized production management Plant performs MES system, which can display production, quality, safety and contract execution data on real-time.

OUR ADVANTAGE

EATON owns state of art manufacturing system in the industry, it brings "high, precision and top" features to the products.



German Trumpf laser cutting and Trupunch ensures $\pm 0.1\text{mm}$ accuracy for sheet-metal parts.



Canadian Accurpress, German Behringer, Italian Euromac and Ameppessta sheet-metal system enable parts to achieve International high quality level.



Application of Panasonic automatic welding, laser welding and automatic riveting technology highly improves production efficiency.

EATON owns independant laboratory for research and development ,which always brings customers high quality product and electricity safety.



Temperature rise system allows max 6300A, which ensures product performance to reach design expectation.



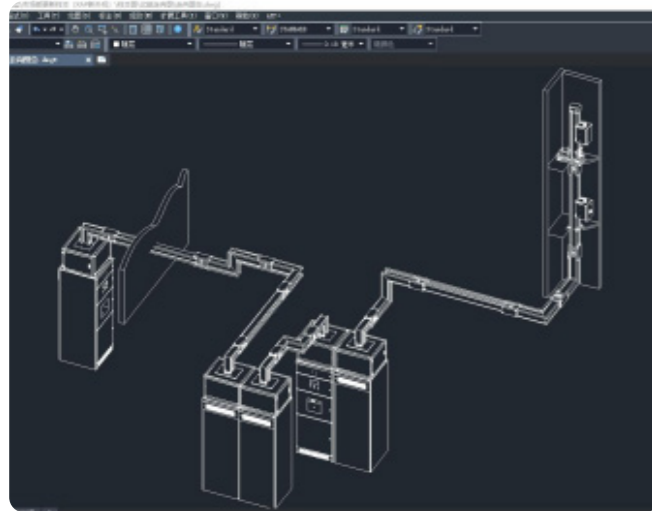
Application of dust simulation tank and water spray platform give product superior IP protection degree performance at the research stage.



Perform strict quality control on IQC, IPQC and OQC to secure product "Zero defection" upon ex-factory.

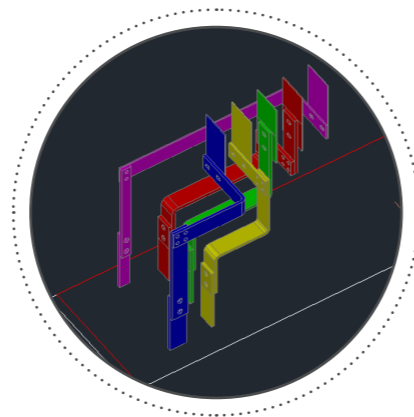
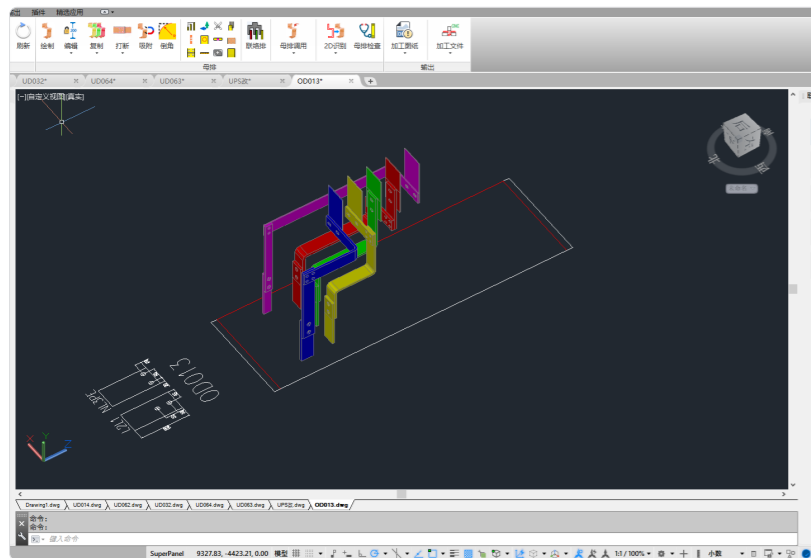
OUR ADVANTAGE

EATON always sticks to innovation research and development, pushes busway technology to safe, energy saving and intelligent direction.



Advanced 3D engineering software, integrated with product features, quickly optimise the busway layout, offers first-best arrangement to the project.

Intelligent superpanel technology brings power to distribution system and provides customer with reliable power supply solution.



Manufacturing center sets up MES system and Intelligent factory data platform, closely butts with ERP, achieves the jump over from product manufacturing to "intelligent manufacturing".



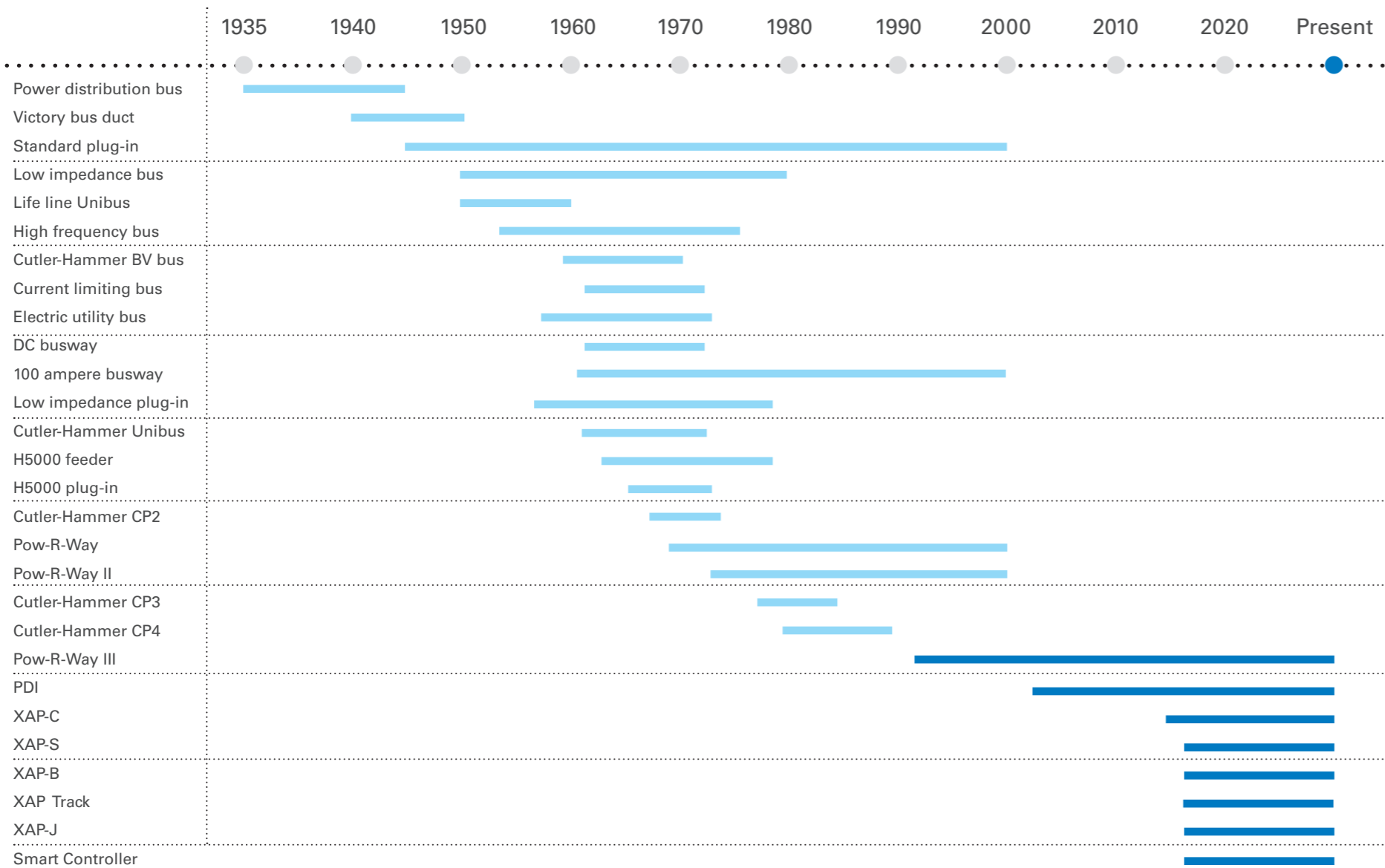
MES system precisely records all the process data and makes all the manufacturing data trackable.

Intelligent factory data platform fully monitors the factory operation efficiency by statistic and analysis of all the data related with manufacturing, quality and safety.

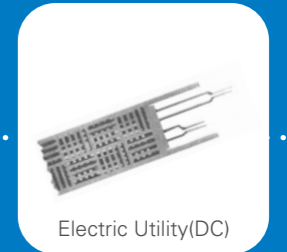
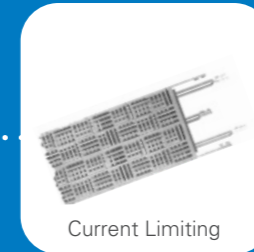
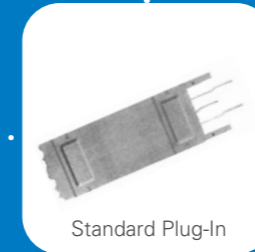


KEEP INNOVATION SINCE 1935

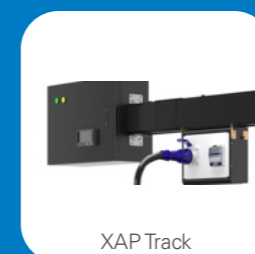
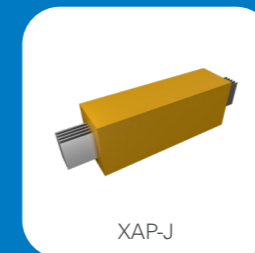
In 1935, comes out first type of busway "power distribution bus".



1935



Eaton busway history can be traced back to 1935 last century. 1st busway was called "power distribution bus", which consists of aluminum or copper bars inside a metal housing used for power distribution. it is available from 100–5000A.







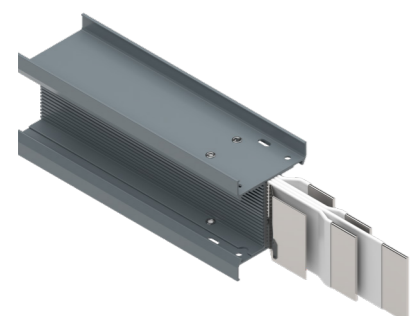
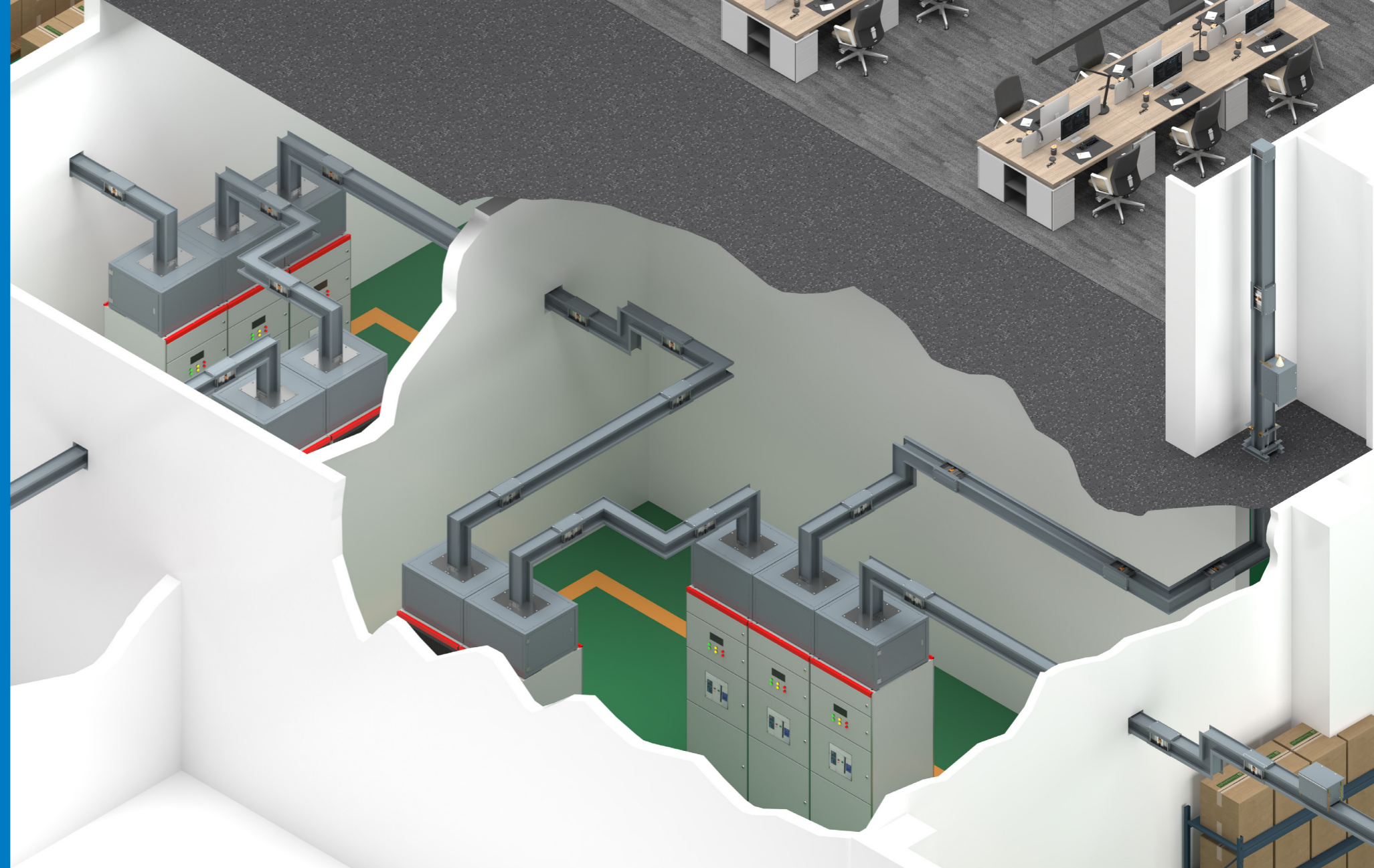
XAP Series Compact Busway

Rated current rating 250-6300A

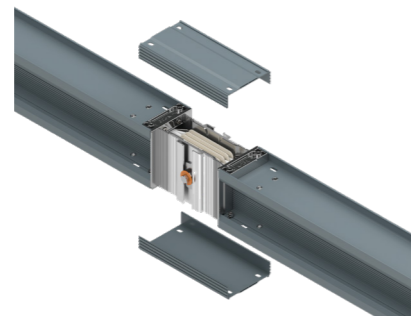


To seek the perfect combination of technical performance and exquisite design, Eaton XAP series busway system will be your wisest choice. Eaton's continuous innovation in the busway product line not only ensures the economy and reliability of its solutions, but also integrates excellent technology that can be installed horizontally or vertically.

-  Superior insulation performance
More in line with the transmission requirements of power system.
-  Higher degree of protection
Strong impact resistance
-  Powerful current carrying capacity
Suitable for high power and load power transmission
-  Flexible connection
Greatly improve continuous adaptability



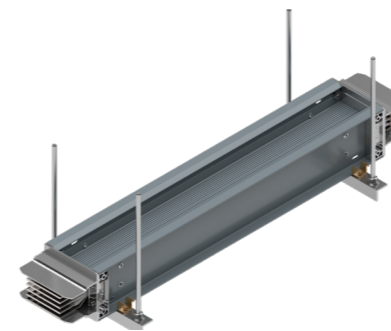
Eaton busway housing adopts lightweight ToughRail Technology which can withstand 20J impact without any deformation (IK10) and pass 2400h salt fog test.



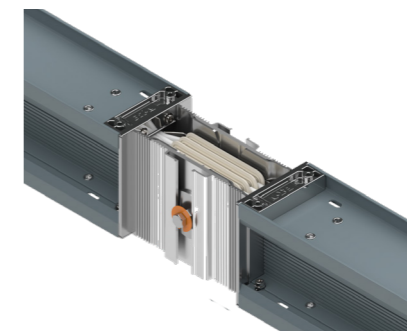
Exclusive IHD (Integral heat dissipation design) technology, in combination with T shaped heat dissipation fin, more wide and closer, total heat dissipation performance is 20% superior comparing with traditional design.



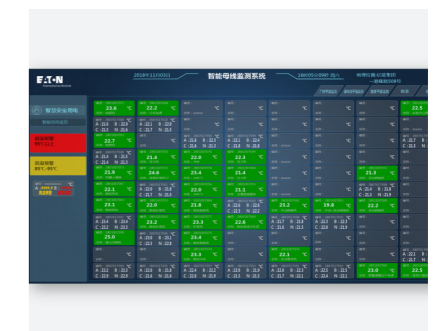
With exquisite workmanship, Eaton busway all contact sides has abandoned traditional "point to line" contact, and improves to "side to side", which greatly enhances the product IP protection degree.



Brand-new draining hole design, eliminates "cisterns effect".



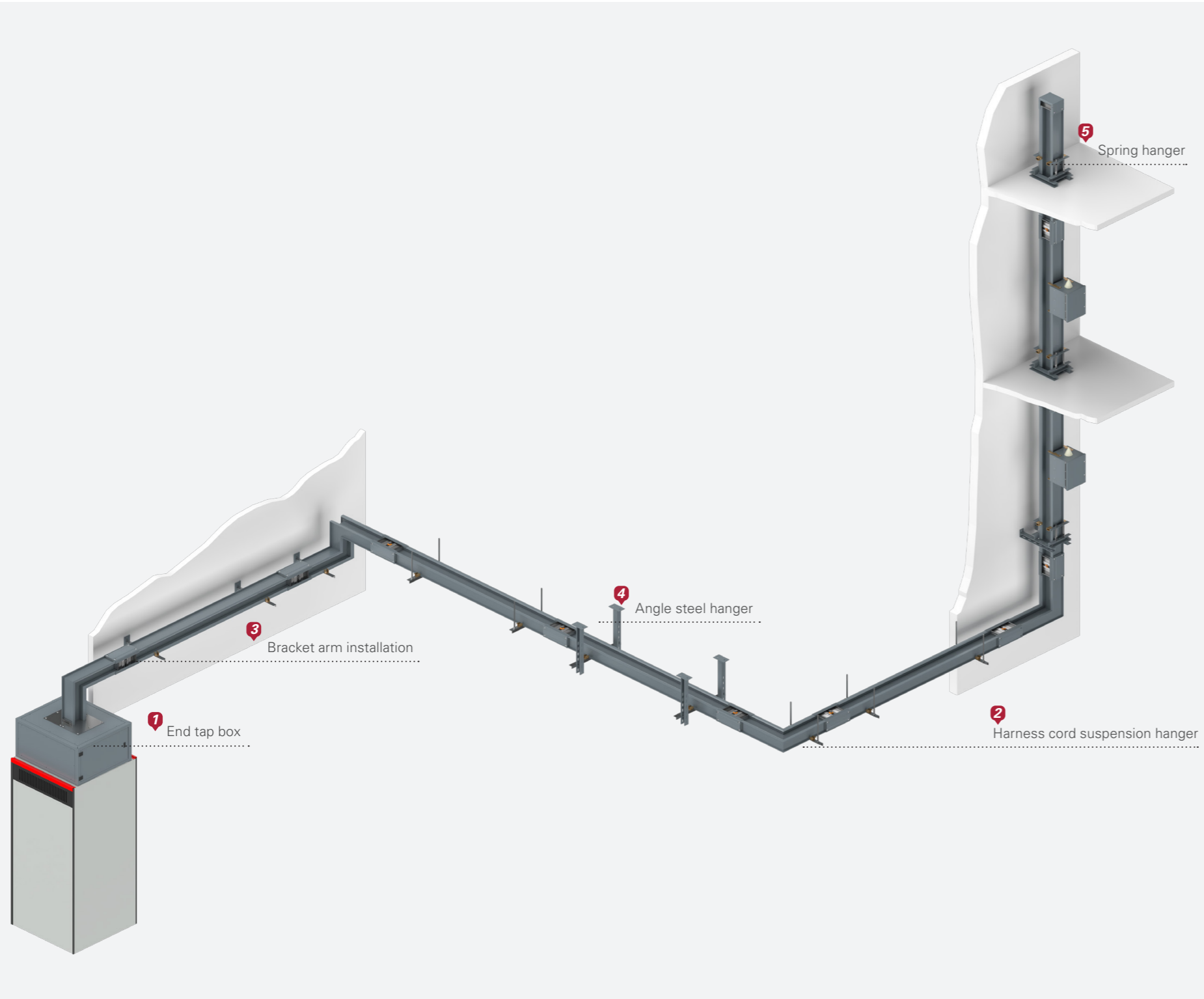
By right of Eaton "Pow-R-Bridge joint package" technology, we innovatively made orientation design to prevent "false and over connection", which fully guarantees reliable contact and stable electricity power transmission.



XAP-B busway is available with Intelligent monitor system and operation platform, it provides on-time data to customer and secures the electricity safety.

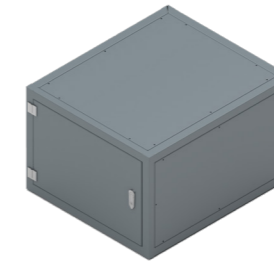
XAP-B series compact busway

Installation accessories



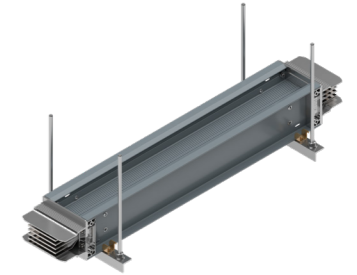
1

End tap box, to protect connection between busway and equipment, outline standard dimension:
L=1000mm,W=800~1000mm,H=500mm



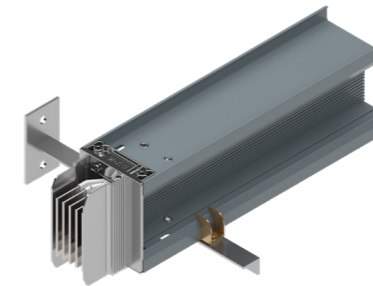
2

Harness cord suspension hanger, applicable for 400-2500A busway horizontal installation.



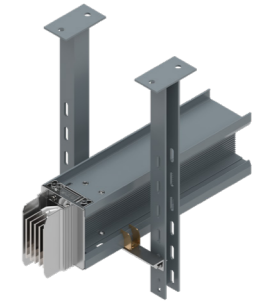
3

Bracket arm installation, Bracket arm is applicable for the busway installation along the wall.



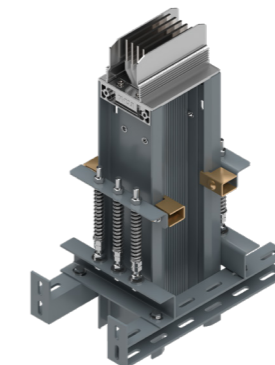
4

Angle steel hanger, applicable for 3200A-5000A busway horizontal installation.



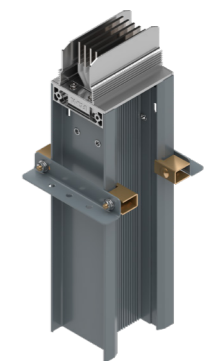
5

Spring hanger, for the application of busway when the floor is 4 meters high, or equipped with plug in box, need to add fixation hanger to secure the busway installation in the vertical riser.



6

Middle fixation hanger, when the floor is 4 meters high, or equipped with plug in box, need to add fixation hanger to secure the busway installation in the vertical riser.



XAP-B series compact busway

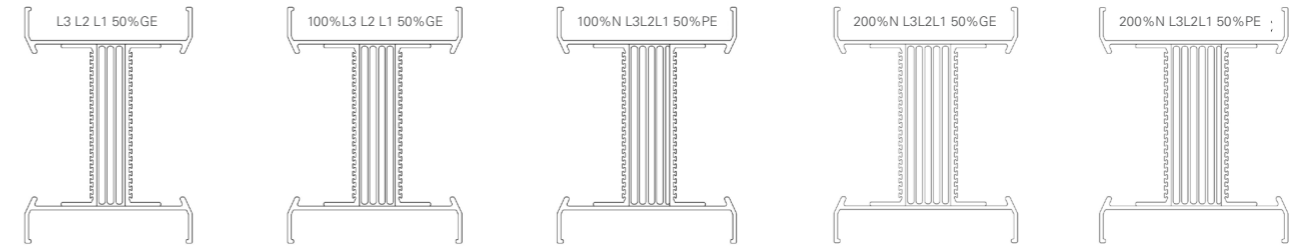
Technique data

Item	Unit	Current rating
Rated current	A	400 500 630 800 1000 1250 1600 2000 2500 3200 4000 5000
Standard	IEC 61439-6 2012:LV switchgear and control gear assemblies – Part 6:Busbar trunking systems (busways)	
Third party certificate	CQC, KEMA-KEUR	
System	Applicable for 3P3W, 3P4W and 3P5W system	
Frequency	Hz	50/60
Rated operation voltage (Ue)	V	≤ 690 V (with tap off unit), ≤ 1000 V(without tap off unit)
Rated insulation voltage (Ui)	V	≤ 1000V
Rated impulse withstand voltage Uimp	kV	8
Rated short time withstand current (Icw)	kA	20 20 30 30 50 50 65 80 80 100 120 120
Rated peak short circuit current (Ipk)	kA	40 40 63 63 105 105 143 176 176 220 264 264
IP	IP54/IP66	
Pollution degree	III	
Ambient temperature	°C	-5 ~ 40 degree, average temperature does not exceed 35 degree within 24h
Above sea level	m	≤ 2000
Fire propagation features	Yes	
Housing material	Aluminum-alloy	
Housing finishing	Electric static powder spray/ Aluminum oxidation	
Conductor material	Aluminum	
Conductor finishing	Tin / silver plating	
Conductor resistance		
Resistance (R20)	mΩ/m	0.113 0.087 0.071 0.054 0.040 0.031 0.026 0.020 0.015 0.012 0.008 0.011
Reactance (X)	mΩ/m	0.018 0.014 0.012 0.009 0.007 0.005 0.009 0.007 0.005 0.004 0.004 0.004
Impedance (Z)	mΩ/m	0.120 0.095 0.077 0.058 0.044 0.033 0.029 0.022 0.017 0.014 0.010 0.014
Voltage drop		
Power factor 0.6	V/m	0.070 0.089 0.092 0.087 0.084 0.077 0.089 0.084 0.086 0.084 0.078 0.085
Power factor 0.7	V/m	0.075 0.095 0.098 0.093 0.089 0.083 0.095 0.089 0.091 0.089 0.082 0.091
Power factor 0.8	V/m	0.080 0.100 0.103 0.098 0.093 0.088 0.098 0.093 0.094 0.093 0.084 0.096
Power factor 0.9	V/m	0.083 0.103 0.106 0.101 0.096 0.091 0.100 0.096 0.096 0.095 0.084 0.099
Power factor 1.0	V/m	0.078 0.095 0.098 0.093 0.088 0.085 0.089 0.088 0.085 0.085 0.073 0.092

XAP-B series compact busway

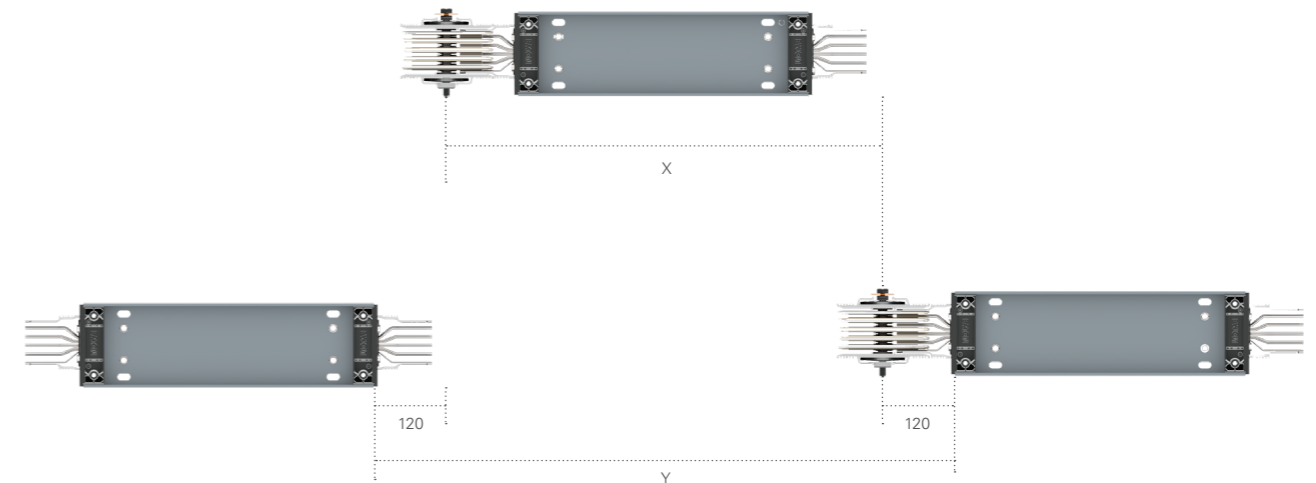
System selection

XAP-B busway is widely used in the 3P3W, 3P4W and 3P5W system.

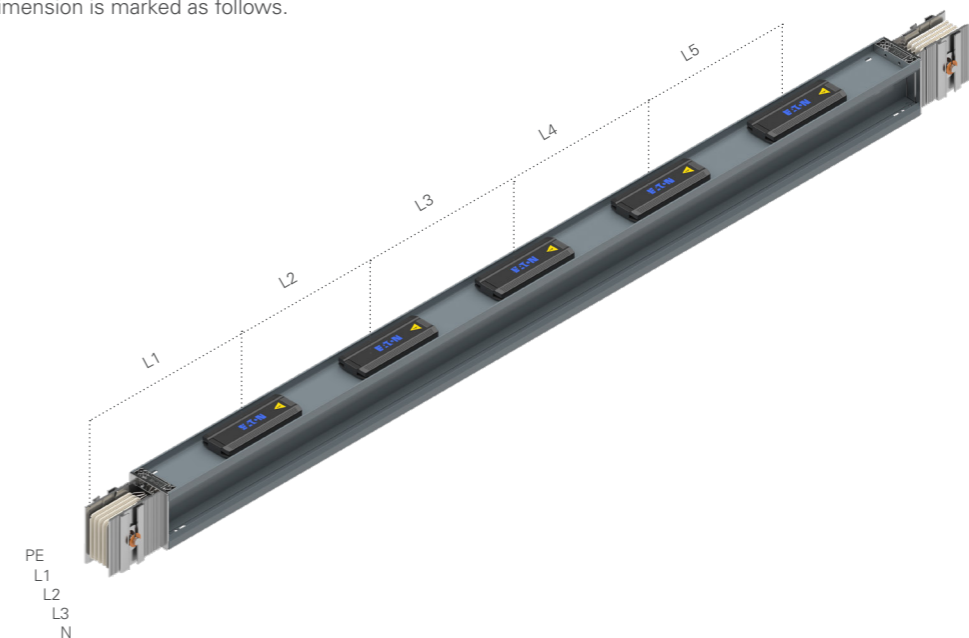


XAP-B busway length definition

Busway and functional unit length is calculated from the joint centerline, for the feeder, minimum length is 400mm, standard length is 3000mm.



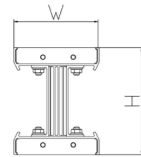
Plug in type busway, minimum length is 750mm, standard length is 3000mm, busway can be equipped with five plug in openings on each side, plug in opening dimension is marked as follows.



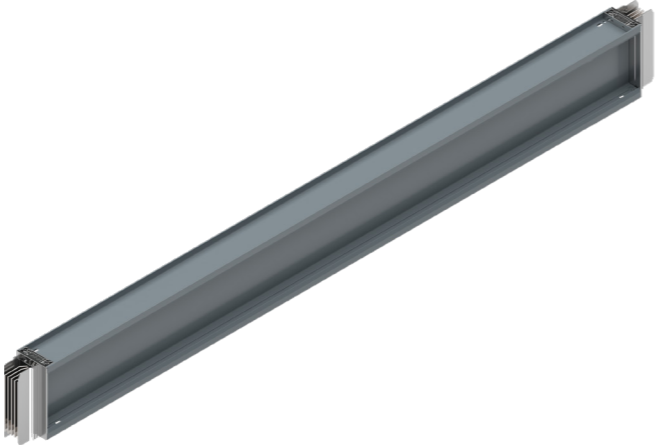
XAP-B series compact busway

Physical data

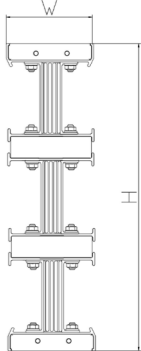
Single deck busway



No.	Current rating(A)	Dimension		Weight	
		Width W (mm)	Height H (mm)	4W (kg/m)	5w (kg/m)
1	400	142	113	8.4	8.8
2	500	142	118	8.9	9.3
3	630	142	128	9.7	10.2
4	800	142	143	10.9	11.5
5	1000	142	173	13.3	14.2
6	1250	142	203	15.7	16.8
7	1600	142	253	19.8	21.3

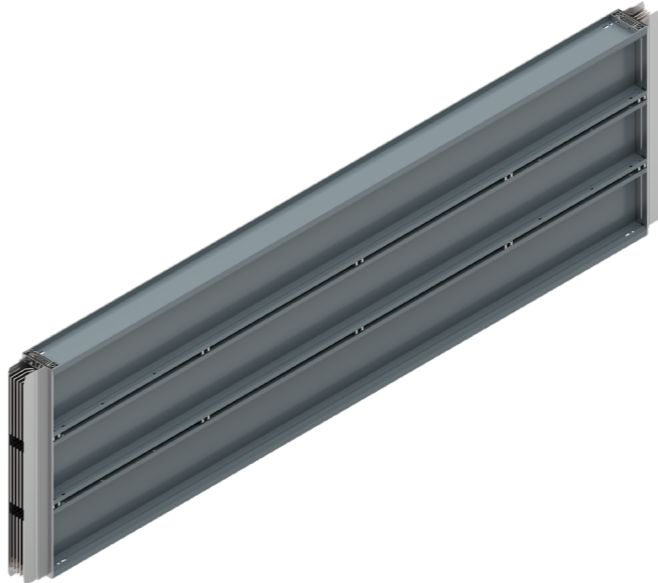


Tripartite decks busway

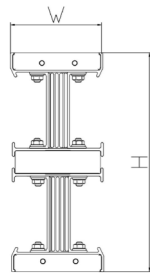


No.	Current rating (A)	Dimension		Weight	
		Width W (mm)	Height H (mm)	4W (kg/m)	5w (kg/m)
1	5000	142	826	63.3	68.8

Note: The data is only used as reference to calculate the load for support hangers, not for site acceptance.



Double decks busway



No.	Current rating(A)	Dimension		Weight	
		Width W (mm)	Height H (mm)	4W (kg/m)	5w (kg/m)
1	2000	142	337	25.7	27.5
2	2500	142	387	29.7	32.0
3	3200	142	487	38.1	41.1
4	4000	142	607	48.3	52.0



Joint

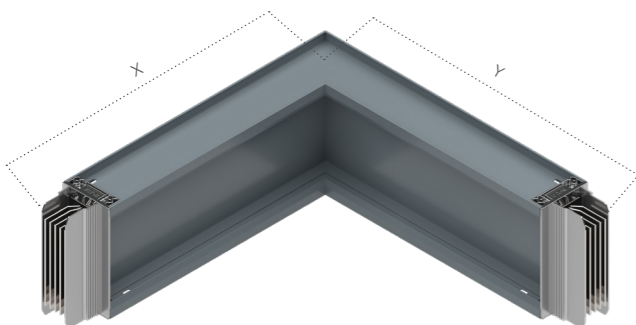


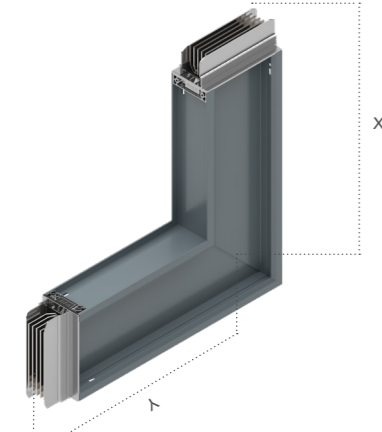
Note: Joint double-headed bolt torque value is 68±7 Nm

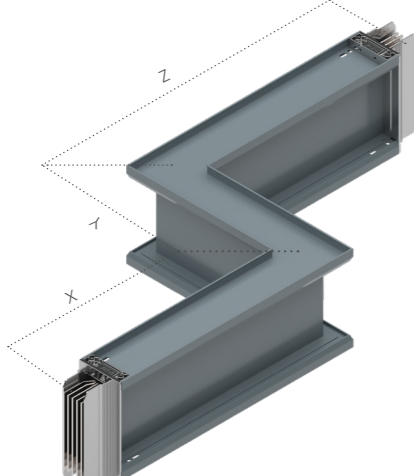
No.	Current rating(A)	Joint bolt qty
1	400	1
2	500	1
3	630	1
4	800	1
5	1000	1
6	1250	1
7	1600	1
8	2000	2
9	2500	2
10	3200	4
11	4000	4
12	5000	6

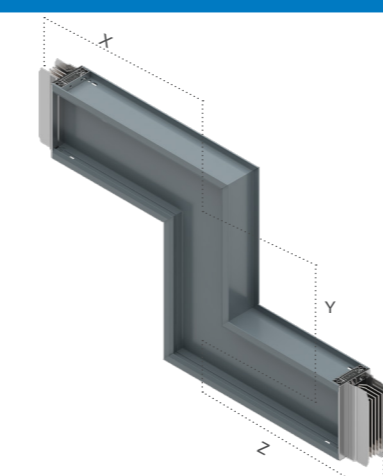
XAP-B series compact busway

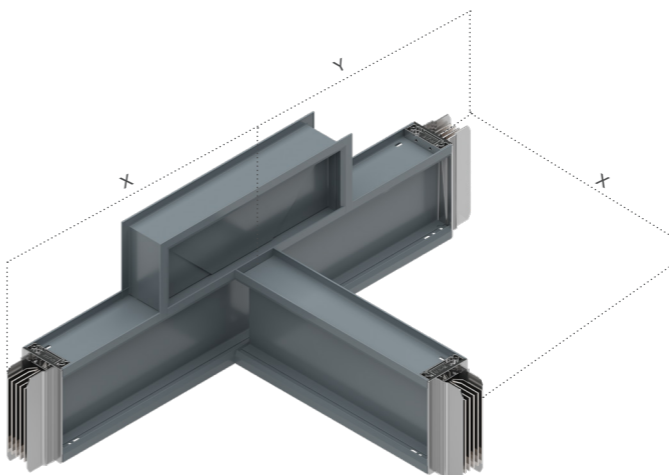
Functional unit standard dimension

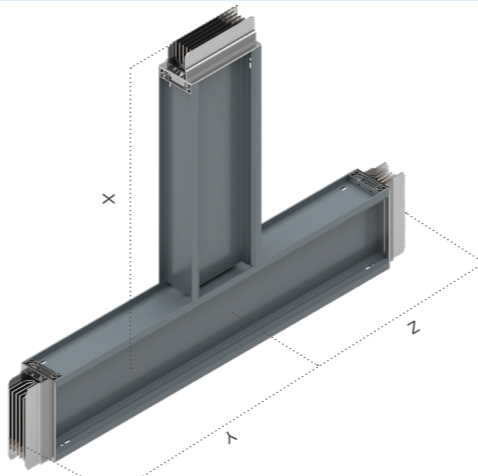
L horizontal elbow	No.	Current class	Dimension
	1	400A	X=400mm Y=400mm
	2	500A	X=400mm Y=400mm
	3	630A	X=400mm Y=400mm
	4	800A	X=400mm Y=400mm
	5	1000A	X=400mm Y=400mm
	6	1250A	X=400mm Y=400mm
	7	1600A	X=400mm Y=400mm
	8	2000A	X=400mm Y=400mm
	9	2500A	X=400mm Y=400mm
	10	3200A	X=400mm Y=400mm
	11	4000A	X=400mm Y=400mm
	12	5000A	X=400mm Y=400mm

L vertical elbow	No.	Current class	Dimension
	1	400A	X=500mm Y=500mm
	2	500A	X=500mm Y=500mm
	3	630A	X=500mm Y=500mm
	4	800A	X=500mm Y=500mm
	5	1000A	X=500mm Y=500mm
	6	1250A	X=500mm Y=500mm
	7	1600A	X=500mm Y=500mm
	8	2000A	X=700mm Y=700mm
	9	2500A	X=700mm Y=700mm
	10	3200A	X=700mm Y=700mm
	11	4000A	X=700mm Y=700mm
	12	5000A	X=850mm Y=850mm

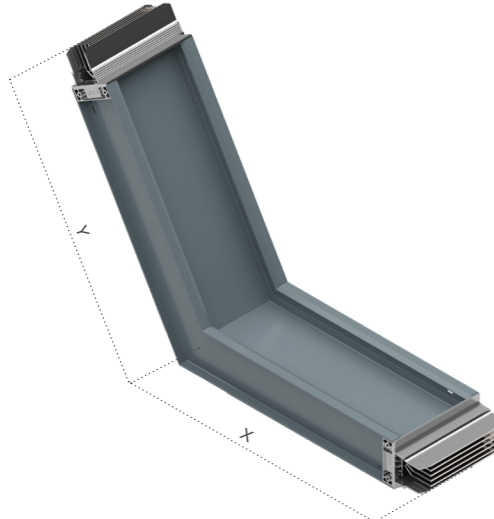
Z horizontal offset	No.	Current class	Dimension
	1	400A	X=400mm Y=250~900mm Z=400mm
	2	500A	X=400mm Y=250~900mm Z=400mm
	3	630A	X=400mm Y=250~900mm Z=400mm
	4	800A	X=400mm Y=250~900mm Z=400mm
	5	1000A	X=400mm Y=250~900mm Z=400mm
	6	1250A	X=400mm Y=250~900mm Z=400mm
	7	1600A	X=400mm Y=250~900mm Z=400mm
	8	2000A	X=400mm Y=250~900mm Z=400mm
	9	2500A	X=400mm Y=250~900mm Z=400mm
	10	3200A	X=400mm Y=250~900mm Z=400mm
	11	4000A	X=400mm Y=250~900mm Z=400mm
	12	5000A	X=400mm Y=250~900mm Z=400mm

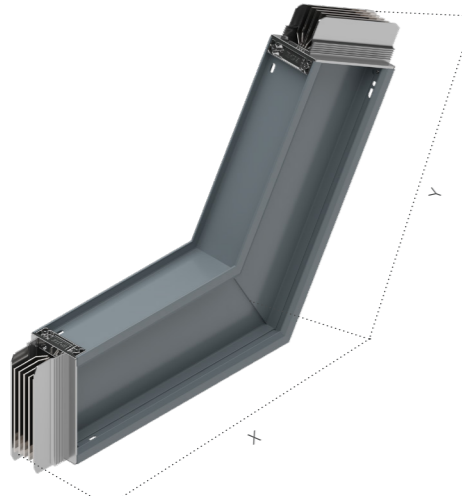
Z vertical offset	No.	Current class	Dimension
	1	400A	X=500mm Y=250~1000mm Z=500mm
	2	500A	X=500mm Y=250~1000mm Z=500mm
	3	630A	X=500mm Y=250~1000mm Z=500mm
	4	800A	X=500mm Y=250~1000mm Z=500mm
	5	1000A	X=500mm Y=250~1000mm Z=500mm
	6	1250A	X=500mm Y=250~1000mm Z=500mm
	7	1600A	X=500mm Y=250~1000mm Z=500mm
	8	2000A	X=700mm Y=250~1000mm Z=700mm
	9	2500A	X=700mm Y=250~1000mm Z=700mm
	10	3200A	X=700mm Y=250~1000mm Z=700mm
	11	4000A	X=700mm Y=250~1000mm Z=700mm
	12	5000A	X=700mm Y=250~1000mm Z=700mm

Tee horizontal offset	No.	Current class	Dimension
	1	400A	X=500mm Y=500mm Z=500mm
	2	500A	X=500mm Y=500mm Z=500mm
	3	630A	X=500mm Y=500mm Z=500mm
	4	800A	X=500mm Y=500mm Z=500mm
	5	1000A	X=500mm Y=700mm Z=700mm
	6	1250A	X=500mm Y=700mm Z=500mm
	7	1600A	X=500mm Y=700mm Z=500mm
	8	2000A	X=500mm Y=700mm Z=500mm
	9	2500A	X=500mm Y=700mm Z=500mm
	10	3200A	X=500mm Y=700mm Z=500mm
	11	4000A	X=500mm Y=700mm Z=500mm
	12	5000A	X=700mm Y=700mm Z=700mm

Tee vertical offset	No.	Current class	Dimension
	1	400A	X=500mm Y=500mm Z=500mm
	2	500A	X=500mm Y=500mm Z=500mm
	3	630A	X=500mm Y=500mm Z=500mm
	4	800A	X=500mm Y=500mm Z=500mm
	5	1000A	X=500mm Y=500mm Z=500mm
	6	1250A	X=500mm Y=500mm Z=500mm
	7	1600A	X=500mm Y=500mm Z=500mm
	8	2000A	X=700mm Y=700mm Z=700mm
	9	2500A	X=700mm Y=700mm Z=700mm
	10	3200A	X=700mm Y=700mm Z=700mm
	11	4000A	X=700mm Y=700mm Z=700mm
	12	5000A	X=700mm Y=700mm Z=700mm

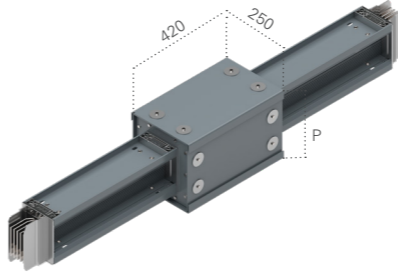
Combination elbow	No.	Current class	Dimension
	1	400A	X=400mm Y=500-1000mm Z=500mm
	2	500A	X=400mm Y=500-1000mm Z=500mm
	3	630A	X=400mm Y=500-1000mm Z=500mm
	4	800A	X=400mm Y=500-1000mm Z=500mm
	5	1000A	X=400mm Y=500-1000mm Z=500mm
	6	1250A	X=400mm Y=500-1000mm Z=500mm
	7	1600A	X=400mm Y=500-1000mm Z=500mm
	8	2000A	X=400mm Y=700-1000mm Z=700mm
	9	2500A	X=400mm Y=700-1000mm Z=700mm
	10	3200A	X=400mm Y=700-1000mm Z=700mm
	11	4000A	X=400mm Y=700-1000mm Z=700mm
	12	5000A	X=400mm Y=850-1300mm Z=700mm

L special horizontal elbow	No.	Current class	Dimension
	1	400A	X=400mm Y=400mm
	2	500A	X=400mm Y=400mm
	3	630A	X=400mm Y=400mm
	4	800A	X=400mm Y=400mm
	5	1000A	X=400mm Y=400mm
	6	1250A	X=400mm Y=400mm
	7	1600A	X=400mm Y=400mm
	8	2000A	X=400mm Y=400mm
	9	2500A	X=400mm Y=400mm
	10	3200A	X=400mm Y=400mm
	11	4000A	X=400mm Y=400mm
	12	5000A	X=400mm Y=400mm

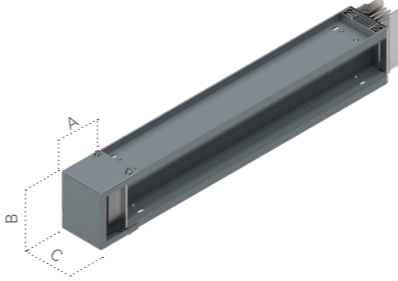
L special vertical elbow	No.	Current class	Dimension
	1	400A	X=500mm Y=500mm
	2	500A	X=500mm Y=500mm
	3	630A	X=500mm Y=500mm
	4	800A	X=500mm Y=500mm
	5	1000A	X=500mm Y=500mm
	6	1250A	X=500mm Y=500mm
	7	1600A	X=500mm Y=500mm
	8	2000A	X=700mm Y=700mm
	9	2500A	X=700mm Y=700mm
	10	3200A	X=700mm Y=700mm
	11	4000A	X=700mm Y=700mm
	12	5000A	X=850mm Y=850mm

Reducer	Rated current before reduction (A)	Rated current after reduction(A)											
		400	500	630	800	1000	1250	1600	2000	2500	3200	4000	5000
	630	R04	R05	-	-	-	-	-	-	-	-	-	-
	800	R04	R05	R06	-	-	-	-	-	-	-	-	-
	1000	R04	R05	R06	R08	-	-	-	-	-	-	-	-
	1250	-	R05	R06	R08	R10	-	-	-	-	-	-	-
	1600	-	-	R06	R08	R10	R12	-	-	-	-	-	-
	2000	-	-	-	R08	R10	R12	R16	-	-	-	-	-
	2500	-	-	-	-	R10	R12	R16	R20	-	-	-	-
	3200	-	-	-	-	-	R12	R16	R20	R25	-	-	-
	4000	-	-	-	-	-	-	R16	R20	R25	R32	-	-
	5000	-	-	-	-	-	-	-	R20	R25	R32	R40	-

Note: Reducer is also available to be equipped with fuse or MCCB, contact the factory for details.

Expansion joint	Rated current (A)		Height (P) mm
	400	500	
	400	500	213
	630	800	218
	1000	1250	228
	1600	2000	243
	2500	3200	268
	4000	5000	303
			348
			427
			287
			577
			667
			926

Note: Expansion joint has adjustment distance of ±40mm, when the linear distance is 50m, need to include one set of expansion joint.

End cover	Rated current (A)			
	(A) mm	(B) mm	(C) mm	
	400	158	126	149
	500	158	131	149
	630	158	141	149
	800	158	156	149
	1000	158	181	149
	1250	158	216	149
	1600	158	261	149
	2000	158	340	149
	2500	158	480	149
	3200	158	490	149
	4000	158	580	149
	5000	158	875	149

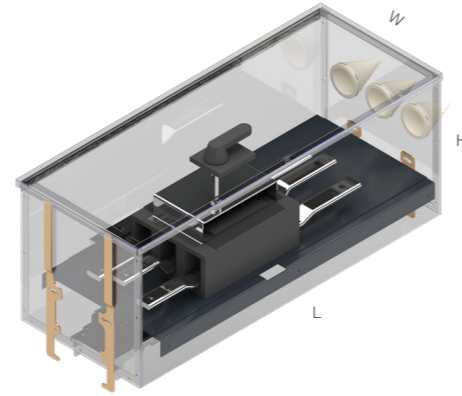
Note: End cover is the terminal part of the busway layout to protect the busway system.

Plug in box

Plug in box distributes electricity power from the busway to the load, and provides over load protection for the branch unit.

Product features

- Plug in box enclosure is made of cold-rolled steel with compact structure and high strength.
- Door panel comes with piano hinge with easy operation.
- Plug in box is equipped with fixation hook, to prevent accidental pull out with load.
- Plug in box bottom is assembled with guide plate to guarantee correct phase during the installation.
- Both T type plug jaw and busway opening stab has silver plating on the surface, which reduces the contact resistance.



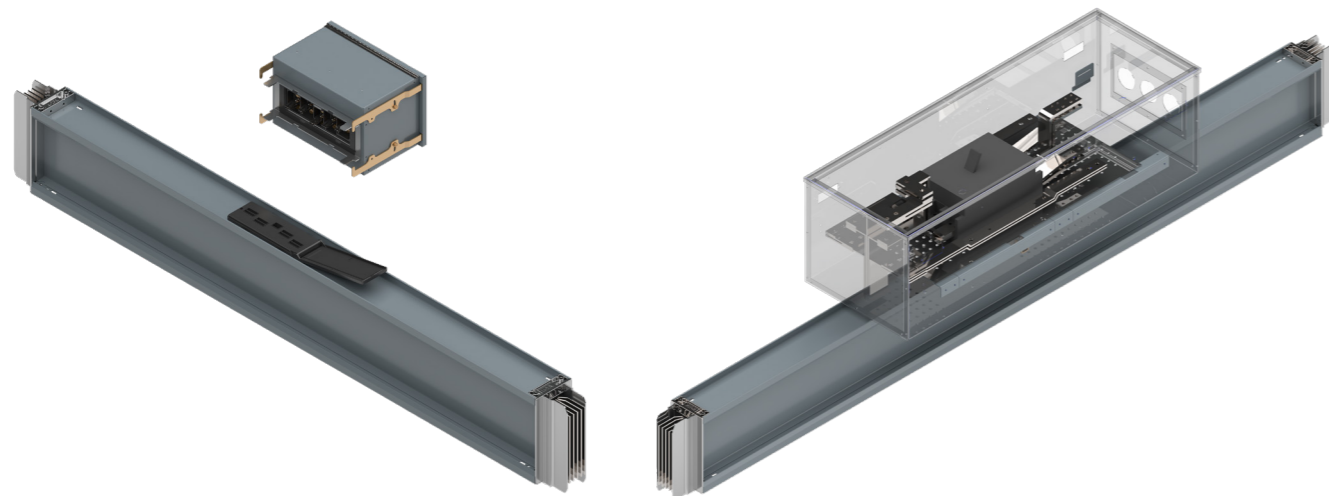
Product spec

- Plug in box includes five standard specification, they can be equipped with fuse, MCCB or any other protection component;
- MCCB can be 3 or 4 pole, with option of shunt trip, fire alarm, leakage protection and electrical operation, etc.

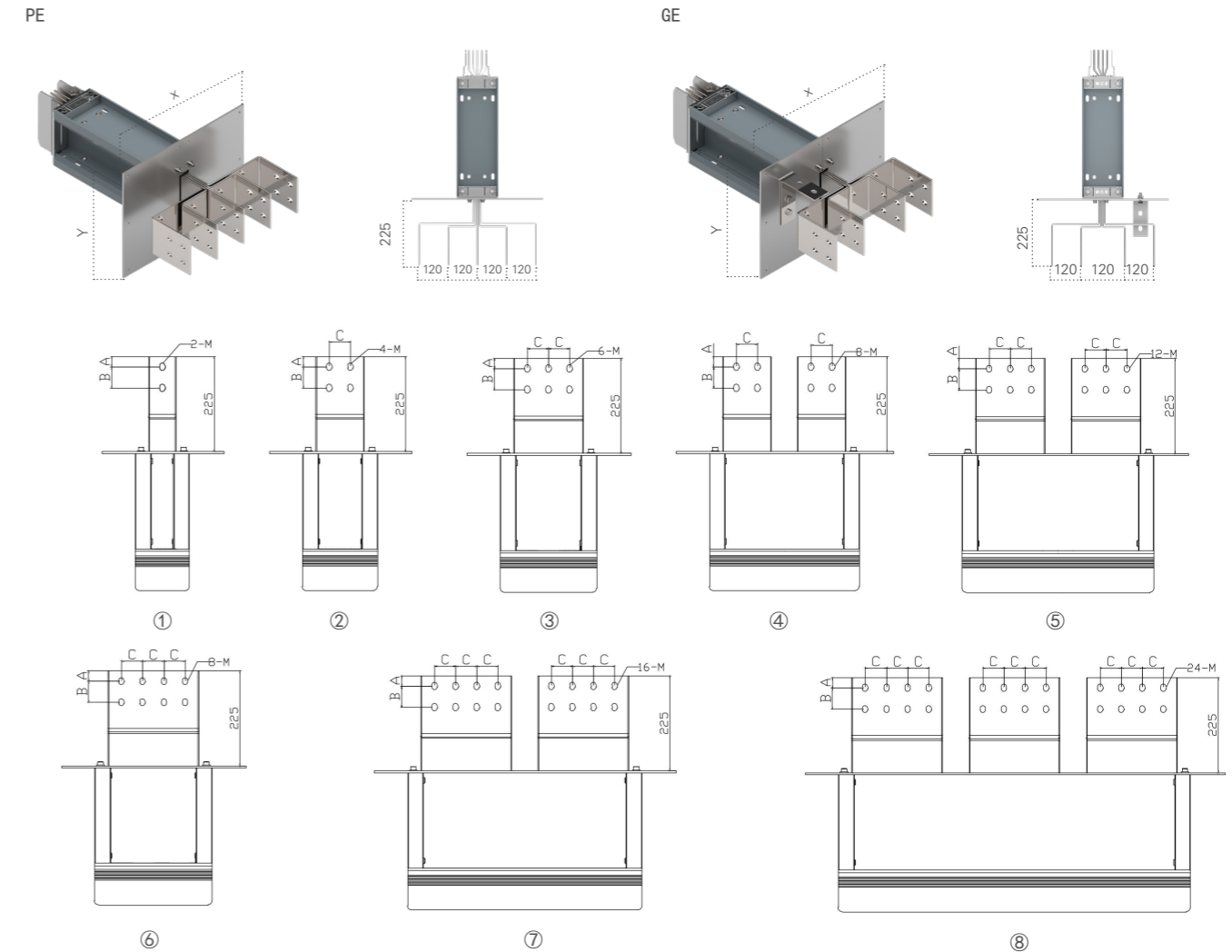
Plug in box outline standard dimension

Current (A)	L (mm)	W(mm)	H(mm) w/o rotary handle	H(mm) with rotary handle	Box No.	Figure
100	360	230	230	270	1	
160	400	250	250	290	2	
250	500	270	270	310	3	
400	650	310	310	350	4	
630~1000	1200	420	420	460	5	

Note: Above dimension indicates standard value, for special design, pls contact our engineer.



XAP-B series compact busway Flanged end

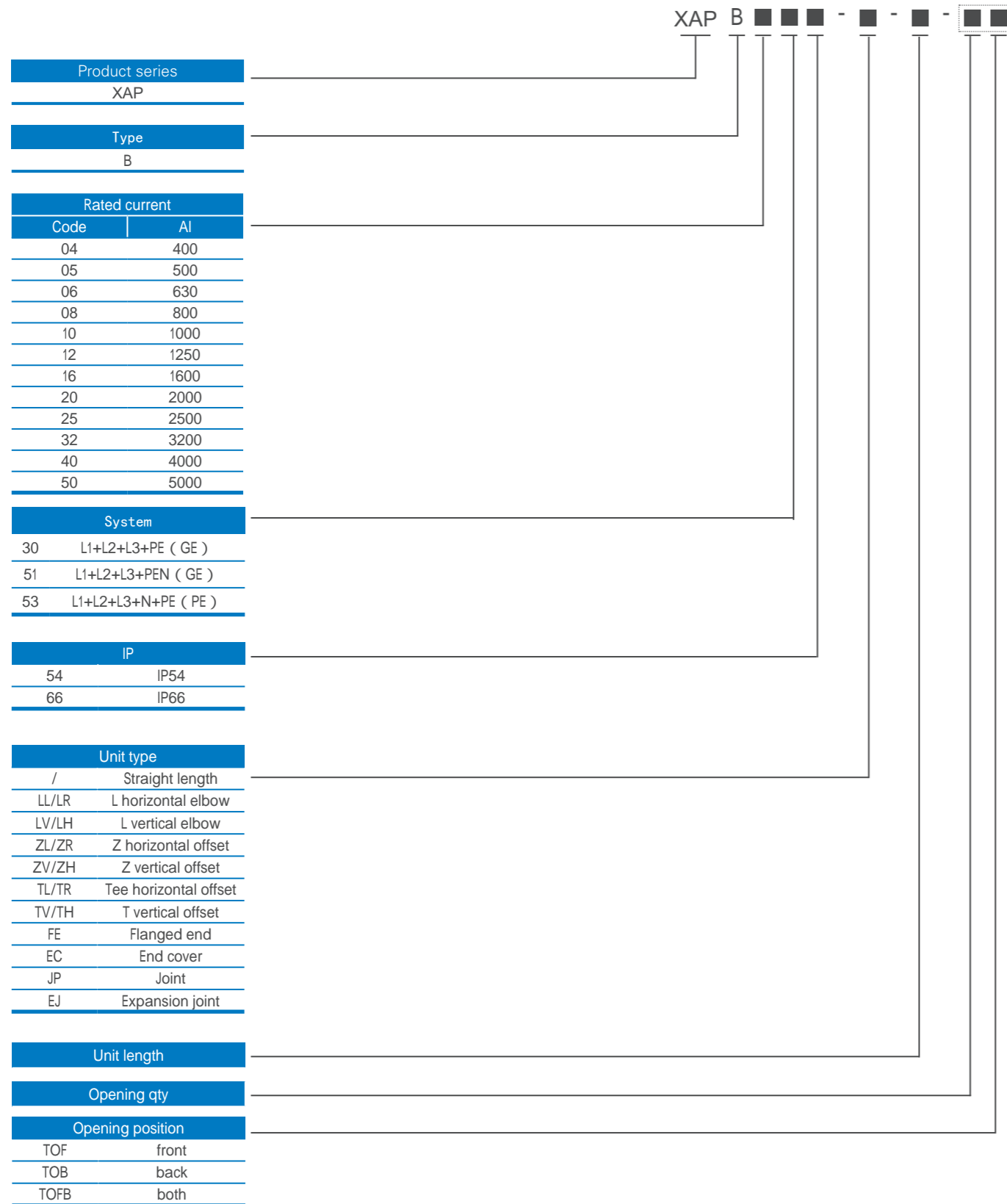


Current class (A)	X (mm)	Y (mm)	A (mm)	B (mm)	C (mm)	M (mm)	Figure
400	450	273	25	50	50	13 X 17	
500	450	278	25	50	50	13 X 17	
630	450	288	25	50	50	13 X 17	
800	450	303	25	50	50	13 X 17	
1000	450	338	25	50	50	13 X 17	
1250	450	373	25	50	50	13 X 17	
1600	450	423	25	50	50	13 X 17	
2000	450	496	25	50	50	13 X 17	
2500	450	560	25	50	50	13 X 17	
3200	450	666	25	50	50	13 X 17	
4000	450	726	25	50	50	13 X 17	
5000	450	766	25	50	50	13 X 17	⑧

Note: All the data above indicates standard, for special design, contact our engineer.

XAP-B series compact busway

Production selection



Product series	
XAP	

Type	
B	

No.	Box spec
X	Non - standard
1	1#standard
2	2#standard
3	3#standard
4	4#standard
5	5#standard

Plug in box code	

System	
30	L1+L2+L3+PE (GE)
51	L1+L2+L3+PEN (GE)
53	L1+L2+L3+N+PE (PE)

NO.	IP
54	IP54

NO.	Protection type
CB	MCCB
FS	Fused switch
FU	Fuse
-	None

NO.	Rated current
63	63A
80	80A
100	100A
125	125A
160	160A
200	200A
250	250A
315	315A
400	400A
630	630A
800	800A
1000	1000A

Pole No.	Plug in box code
3	3P
4	4P

NO.	Operation type
-	w/o Operation
R	c/w Rotary handle
M	c/w Electrical operation

XAP B - ■ T ■ ■ / ■ ■ - ■ ■

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