

封闭母线
Enclosed Busbar

江苏大全封闭母线有限公司
Jiangsu DAQO Enclosed Busbar Systems Co., Ltd.

公司简介

Company Profile

江苏大全封闭母线有限公司（原江苏长江沃特电气有限公司）创办于1994年，隶属大全集团（原江苏长江电气集团），是中国电力系统专业从事封闭母线制造的国家大型一类企业，先后被评为国家电气行业重点骨干企业、国家级重点高新技术企业、中国信息化500强企业、国家科技部863计划CIMS示范企业和863计划成果产业基地，并通过了中国方圆委ISO9001质量体系认证。

公司自1994年成立以来，不断进步、开拓创新、与时俱进，已发展成为国际知名的封闭母线制造商。随着公司的不断发展壮大，目前公司现有员工400人，其中硕士5人，高级工程师5人，工程师42人。公司现有厂房面积3万平方米，2006年产值突破6亿元。产品行销世界，市场占有率55%以上，业绩居全国同行业之首。

公司自开始研究、设计封闭母线以来，已与国内外200MW—1000MW等级不同容量水、火、核电机组及抽水蓄能电站配套设计、制造封闭母线600余套。产品以优异的设计、优秀的质量、优质的服务而闻名于世，取得了骄人的销售业绩。如世界闻名的国家重点工程三峡水电站（ $26 \times 840\text{MW}$ ）、华能玉环电厂（ $4 \times 1000\text{MW}$ ）、邹县电厂（ $2 \times 1000\text{MW}$ ）、海门电厂（ $4 \times 1000\text{MW}$ ）。我国目前封闭母线落差最大的水力发电厂新安江电厂（ $3 \times 300\text{MW}$ ）以及伊朗阿拉克电厂（ $2 \times 330\text{MW}$ ）、秦山核电站三期（ $1 \times 700\text{MW}$ ）、印尼中爪哇（ $2 \times 300\text{MW}$ ）、缅甸邦朗水电站（ $4 \times 135\text{MW}$ ）、嘉兴电厂（ $4 \times 600\text{MW}$ ）、龙滩水电站（ $7 \times 700\text{MW}$ ）、小湾水电站（ $6 \times 700\text{MW}$ ）等重大工程。

一直以来公司秉承“传导工业动力，负载民族希望”的历史使命，以技术为风帆、以管理为灵魂，积极打造国际企业、国际品牌。在机遇与挑战并存的今天，我们将继续发扬“诚信、创新、责任”的企业精神，为电力生产建设单位，提供优质的产品和服务。



Jiangsu Daqo Enclosed Busbar Systems Co.,Ltd (original Jiangsu Changjiang Wote Electric Co., Ltd), a subordinate of DAQO GROUP (original name is Jiangsu Changjiang Electric Group), is a national high-class enterprise founded in 1994. As a professional in the field of enclosed bus bar manufacturing for Power System, it has been awarded certifications as follows: key leading enterprise in national electric trade, national-level high-tech enterprise, one of information-based 500 top enterprises of China, CIMS enterprise of demonstration of national science and technology ministry 863 project and industrialization base of 863 project. Also, it has passed ISO9001 of Chinese Fangyuan committee.

Jiangsu Daqo Enclosed Busbar Systems Co.,Ltd has been developed into a world famous enclosed bus bar manufacturer under the belief that we must always keep on improving and innovating to keep abreast of the times. At present , there are 400 employees in the company: The factory build-up area is 30,000 square meters. In 2006, the output value is up to 600 millions RMB. The products of the company have been sold well all around the world, and its share of china market is up to 55%, which establishes its leading place in the electric field in the country.

From the beginning of studying and designing the enclosed bus bar, we have designed and manufactured about 600 series enclosed bus bars for hydropower , thermal power, nuclear power and pumped storage power plants, which are all of degree from 200MW to 1000MW. Our products have gained an outstanding sales achievement through our world famous first-rate design, quality and service. Our products are widely used in numerous great projects such as Three Gorges project(26 x 840MW), Huaneng Yuhuan Power Station (4 x 1000MW), Power Station in Zou county (2 x 1000MW),Haimeng Power Station (4 x 1000MW), Xinanjiang Power Station (3 x 300MW), a hydropower station of the biggest drop at present in China, Iran Araq Power Station (2 x 330 MW) , Qinshan Nuclear Power Station (Phase III) (1 x 700MW), Indonesia Middle Java (2 x 300MW), Burma Banglang Hydropower Station (4 x 135 MW) , Jiaying Power Station (4 x 600MW), Longtan Hydropower Station(7 x 700MW), Xiaowan Hydropower Station (6 x 700 MW) , etc.,

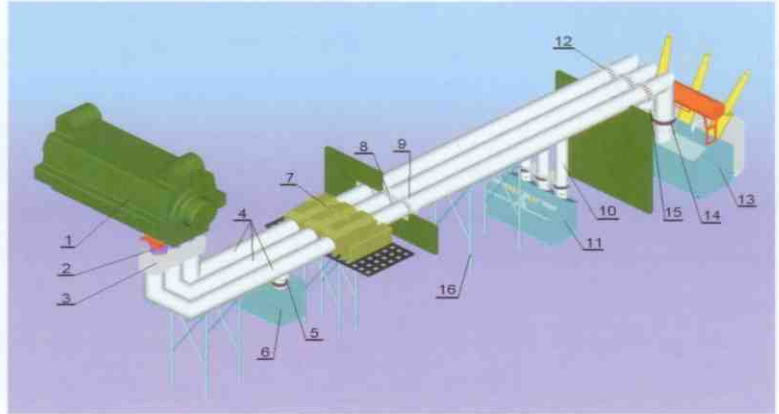
Jiangsu Daqo Enclosed Busbar Systems Co., Ltd, bearing the historical mission " transfer industrial power, load national hope ", is developing into an international enterprise and brand with the integration of technology and management. Today, faced with both opportunity and challenge, we will carry forward our company's spirit: honesty, innovation and responsibility to offer products and service to our customers.



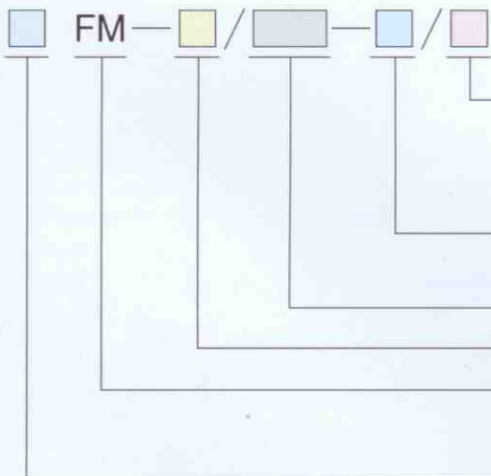
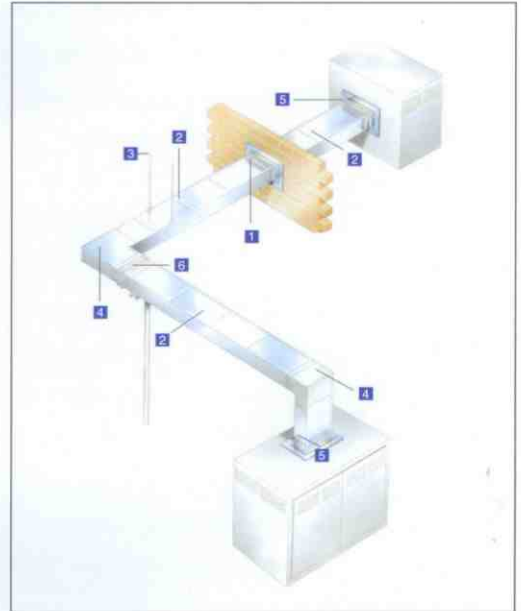
布置及型号

Arrangement & Model

1. 发电机 Generator
2. 电流互感器 Current Transformer
3. 出线箱 Generator Termination Enclosure
4. 主回路封母 Main Run IPB
5. PT分支封母 PT Tap-off Run IPB
6. PT&LA柜 PT&LA Cubicle
7. 断路器或隔离开关 GCB or Isolator
8. 穿墙结构 Wall Seal Assembly
9. 外壳伸缩节 Enclosure Expansion Joint
10. 厂用分支封母 Auxiliary Transformer Tap-off Run IPB
11. 厂用变压器 Auxiliary Transformer
12. 可拆结构 Removable Section Splice
13. 主变压器 Set-up Transformer
14. 与主变连接结构 Transformer Interface
15. 短路板 Bonding Plates
16. 支持结构 Supporting Structure



- 1 穿墙结构 Wall Seal Assembly
- 2 直线段 Straight Section
- 3 吊杆 hanger
- 4 弯头 Elbow
- 5 设备连接结构 Termination Assembly
- 6 伸缩结构 Expansion Joint



特征代号
Character Code

- I 微正压 Dry Air Systems
- II 速饱和电抗器 Saturable Reactor
- III 微正压、速饱和电抗器并存
Slight Positive Pressure and Saturable Reactor

冷却方式
Cooling Method

- Z 自然冷却 Natural Air Cooled
- Q 强迫冷却 Force Cooled
- J 局部冷却 Partial Air Cooled

额定电流(A) Rated Current

额定电压(kV) Rated Voltage

金属封闭母线 Metal-Enclosed Bus

类型
Type

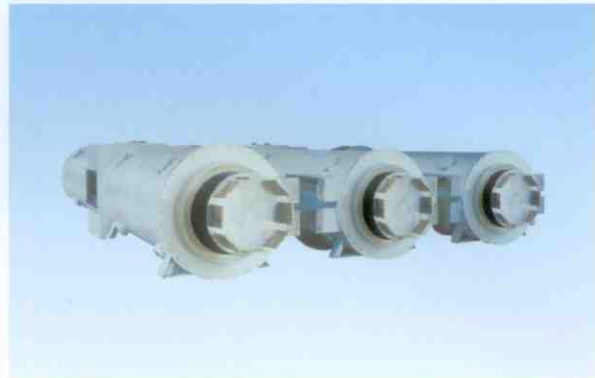
- QL 全连式离相 Continuous Enclosure Type Isolated-Phase Bus Duct
- BL 不连式离相 Noncontinuous Enclosure Type Isolated-Phase Bus Duct
- BG 不隔相共箱 Non-segregated Phase Enclosure Bus Duct
- GG 隔相共箱 Segregated Phase Enclosure Bus Duct

优质的产品

Excellent Products

■ 离相封闭母线

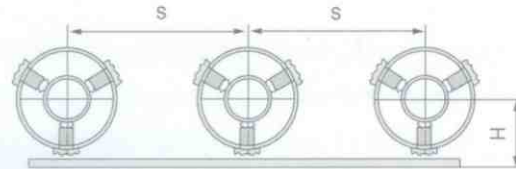
- ◆ 用于发电机与主变压器之间的连接、主回路及厂用回路
- ◆ 可提供的电流等级 1000A~35000A 电压等级 10.5kV~35kV
- ◆ 加强导体外壳环流的屏蔽作用，基本消除母线附近的钢构发热
- ◆ 大大降低短路电动力



Isolated Phase Enclosed Bus Duct

This system is used for connection between generator and set-up transformer, main run and auxiliary transformer tap-off run.

Suitable for current rating from 1000A up to 28000A and the voltage rating from 10.5kV up to 35kV.



The shield effect of enclosure circulation, the heating of the steel structure nearby the bus duct is eliminated basically.

The short circuit electromotive force is also dropped greatly.

额定电压(kV) Rated Voltage	绝缘水平(kV) Insulation Class or Level	额定电流(A) Rated Current	外形尺寸 Dimension(mm)				毛重(kg) Gw/1ø-m
			外壳 Enclosure	导体 Conductor	相间距(S) Space	高 (H)	
6~10	42/75	4000	ø450	ø150	> 650	480	50
15~20	68/125	4000	ø600	ø150	> 850	580	110
		6000	ø650	ø200	> 900	600	120
		8000	ø750	ø300	> 1000	650	120
		9000	ø800	ø350	> 1050	670	135
		10000	ø850	ø400	> 1100	700	140
20~24	75/150	12500	ø1050	ø500	> 1300	770	180
		14000	ø1050	ø500	> 1300	770	180
		16000	ø1150	ø600	> 1400	830	190
		18000	ø1200	ø650	> 1450	880	200
		23000	ø1450	ø900	> 1700	970	270
		26000	ø1500	ø950	> 1750	1000	300
35	100/185	28000	ø1572	ø940	> 1900	1050	330

* 强迫冷却封闭母线参数及尺寸根据工程技术要求确定。

* Data and dimensions of force cooling type isolated phase enclosed bus duct are Considered according to the technical requirement of project

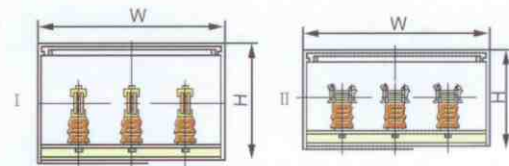
■ 共箱封闭母线

- ◆ 用于厂用回路、变电站、小水电发电机与变压器之间的连接
- ◆ 可提供矩形、槽形或管形导体
- ◆ 可提供的电流等级达6300A，电压等级达35kV
- ◆ 具有铝(或弱磁钢板)外壳的保护，维护工作量小
- ◆ 采用双重绝缘，显著提高安全性能



Non-segregated Phase Enclosed Bus Duct

This type bus duct is used in run of auxiliary transformer, substation and also be applied as the connection between generator and set-up transformer for minitype hydroelectric power substation plant.



The system is suitable for current rating up to 6300A and the voltage rating up to 35kV.

The conductor can be rectangle, channel and tube shape.

Providing the system with the aluminum alloy (or weak magnetic steel plate) enclosure to protect the busbar.

The maintenance is reduced obviously and the safety is promoted prominently by the double insulation used in the system.

额定电压(kV) Rated Voltage	3.15	6.3	10.5	35
绝缘等级(kV) Insulation	18/40	23/60	45/75	100/185
额定电流(A) Rated Current	外形尺寸 (W × H)(mm × mm) Enclosure dimension			
1000~3000	I 750 × 400 II 850 × 350	I 900 × 560 II 1060 × 460	I 900 × 560 II 1060 × 460	I 1500 × 920 II 1600 × 800
3500	I 750 × 440 II 850 × 480	I 900 × 560 II 1060 × 460	I 900 × 560 II 1060 × 460	
4000	* 850 × 440 I 750 × 440 II 850 × 480	* 1060 × 440 I 900 × 560 II 1060 × 460	* 1060 × 440 I 900 × 560 II 1060 × 460	
4500	* 980 × 480 I 750 × 440	* 1180 × 480 I 1000 × 560	* 1180 × 480 I 1000 × 560	
5000	* 1040 × 500 I 1350 × 500	* 1240 × 500 I 1500 × 600	* 1240 × 500 I 1500 × 600	
6300	I 1350 × 500	I 1500 × 600	I 1500 × 600	

注：* 部分为全绝缘共箱封闭母线。4000A以上的共箱封闭母线导体也可采用圆管或槽型铝导体。

Note: '*' is for full insulation NSPB. Tubular or channel aluminum alloy conductor can also be adopted for NSPB with current greater than 4000A.

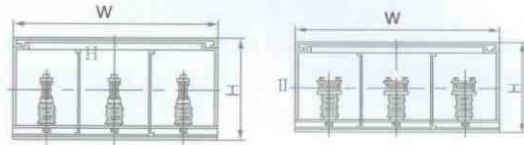
■ 隔箱封闭母线

- ◆ 可提供的电流等级达 4500A 电压等级达35kV
- ◆ 独特的三相间隔离，形成比共箱封闭母线小的外部磁场，避免相间短路

Segregated Phase Enclosed Bus Duct

Suitable for the current rating up to 4500A, and the voltage rating up to 35KV.

Each phase conductor is sepavated, it forms 3 independent spaces therefore the separated phase makes the outer magnetic field less than non-segregated phase enclosed bus duct. This system effectively avoids occuring of phase to phase short circuit.



额定电压(kV) Rated Voltage	3.15	6.3	10.5
绝缘等级(kV) Insulation Grade	18/40	23/60	35/75
额定电流(A) Rated Current	外形尺寸 (W × H) (mm × mm) Enclosure dimension		
1000	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
1600	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
2000	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
2500	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
3000	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
3500	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
4000	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500
4500	I 800 × 500 II 1000 × 440	I 1200 × 560 II 1400 × 500	I 1200 × 560 II 1400 × 500

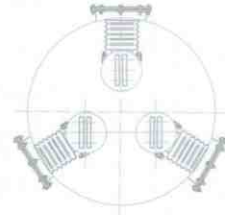
■ 管形共箱封闭母线

- ◆ 用于厂用回路、变电站、小水电站发电机与变压器之间的连接
- ◆ 可提供电流等级达6300A，电压等级达35kV
- ◆ 独特的圆形结构，防护等级比传统共箱更高

Circular Bus Duct System

This type bus duct is used in the run of Auxiliary Transformer, Transformer Substation and typically applied as the connection between generation and set-up transformer for minitype hydroelectric power plant.

With the current rating up to 6300A and voltage rating up to 35kV, this system has excellent electrical and mechanical characteristics with circular enclosure structure. Compared with the base proposal bus system of NSPB, the protection degree is higher.

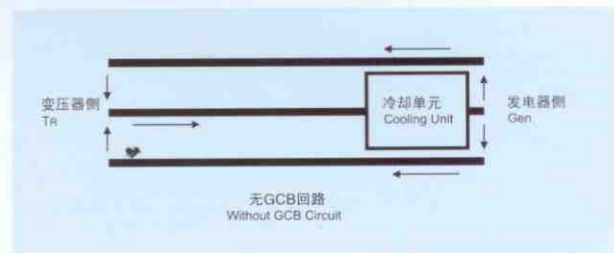


额定电压(kV) Rated Voltage	绝缘等级(kV) Insulation Grade	额定电流(A) Rated Current	外形尺寸 Dimension (mm)	
			外壳Enclosure	导体Conductor
6.3	32/60	3000	ø700	ø100
		4000	ø800	ø150
		6300	ø900	ø200
15-27	42/75	3000	ø800	ø100
		4000	ø900	ø150
		6300	ø1000	ø200
35	100/185	1000	ø1250	ø100
		2500	ø1350	ø100

■ 强迫风冷离相封闭母线

大型发电机组对离相封闭母线的载流量提出了更高的要求，从节省空间考虑，30kA以上的封闭母线必须采用强迫冷却的离相封闭母线。

风冷封闭母线采用冷却空气对导体和外壳强迫冷却，其冷却空气通常采用闭式系统。空气在封闭母线中受热以后，进入空气-水热交换器，冷却以后由风机送回封闭母线，循环使用。热交换器中，可用火力发电厂循环水或水库水作为冷却水来冷却空气流。



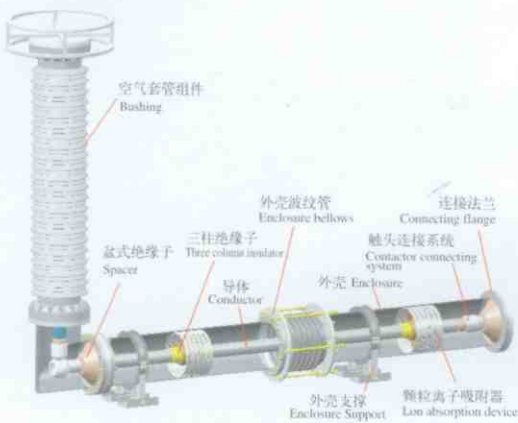
Forced Cooling System For IPB

Large power generator has senior requirement for the current of different-phase busbar. In order to save room, current more than 30kA must adopts reinforced different phase sealed busbar.

Wind-cooling busbar adopts cold air to cool the conductor and shell, and the air usually is sealed system. The air is heated in the sealed busbar, the flows into air-water heat-exchanger, after being cooled, it is put back into sealed busbar, to finish a circulation using. In the exchange, the cooling water may be from power plant or water dam house.

■ 气体绝缘输电管道母线系统 (GIL):

- ◆ GIL为刚性结构，标准化生产，加工精度高，有很高的可靠性，故障率低，经试验验证使用寿命为50年。
- ◆ GIL传输能力大，目前生产最大电流为8000A。
- ◆ 电容电流小、电能损耗小，适于超高压和特高压长距离输电。
- ◆ 无辅助泵或制冷设备、无电磁干扰。
- ◆ 运行维护工作量小，年漏气率只有0.5%，基本不检修。
- ◆ 以SF6气体或SF6+N2混合气体作绝缘介质，没有火险。
- ◆ 成本低，为电缆的85%左右。
- ◆ 安装简便快捷，不受敷设落差和弯曲半径限制，不受大气和环境的影响。



GIL is steel structure with standard manufacture and high precision, so it is highly reliable with little malfunction. Its lifetime is proved to be 50 years.

Huge transmission capability with maximum current: 8000 A. Small capacitance current and little power loss, suitable for super HV and HV long distance power transmission.

Without assistant pump or cooling device, without electromagnetic interference.

Little maintenance because of 0.5%/year air leakage.

SF6 or SF6+N2 as insulating dielectric, so there is no fire danger.

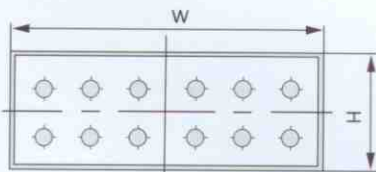
Little cost, about 85% of cable.

Convenient and fast installation, with no restriction by lay clearance and curling radius and no influence by weather and environment.

额定电压 Rated Voltage	额定电流 Rated Current	额定频率 Rated Frequency	额定热稳定电流 Rated Short-time Withstand Current	额定动稳定电流(峰值) Rated Peak Withstand Current(Peak)	工频耐受电压 Power-frequency Withstand Voltage	雷电冲击耐压 Lightning Impulse Withstand Voltage
550 kV	8000 A	50 Hz	63 kA/3s	160 kA	740 kV/1min	1550 kV

■ 电缆封闭母线

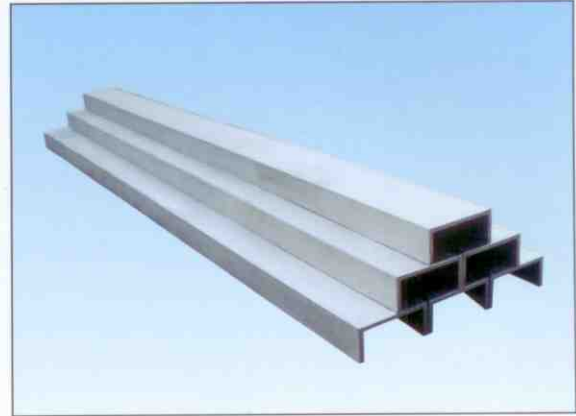
Cable Enclosed Bus Duct



额定电压(kV) Rated Voltage	绝缘水平(kV) Insulation	额定电流(A) Rated Current	W(mm)	H(mm)	备注 Notes
10	35/75	1000	750	250	电缆可由需方提供，现场安装，从而减少安装接头。 When installing at site, the cable can be provided by users so that the jointer quantity can be decreased.
		2000	750	250	
		3000	900	300	
		4000	900	300	



铝管
Aluminum Alloy Tube



槽铝
Channel Aluminum Alloy



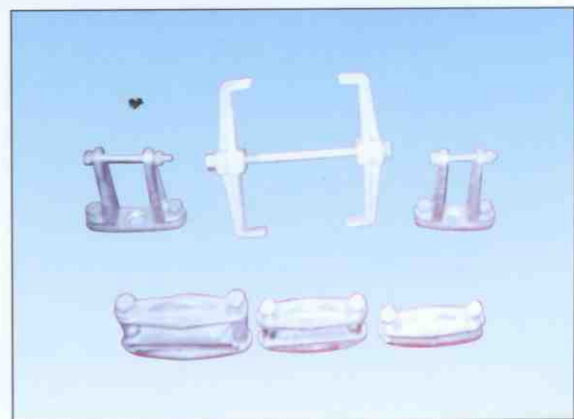
热风微正压控制系统
Dry Air Systems



测温装置
Temperature Monitoring Device



金具
Terminal Clamp



金具
Clamp



PT柜 PT Cubicles

电压互感器柜采用组合结构，可根据具体工程配置不同数量及种类的PT，其整体采用移开式金属铠装结构并在面板上配装大面积的观察窗，可随时观察柜子的运行情况，每一PT配备一个单独的小车，其一次二次回路均采用抽头结构，实现一次室与二次室的分离。整体美观可靠，并可实现带电抽出检修。

In order to be fitted with many different quantities and types of PT components to meet your specification, the PT cubicles adopt combined and removable metal-clad structures. A large area of glazed observation window in the section of the cubicle is used for checking operation inside. For each PT being equipped with wheel-drawer, the examination and repair can be carried on lively. The primary and secondary of circuits both adopt a tap structure. Primary chamber is separated from secondary one. The cubicle function runs stably with beautiful appearance.



中性点柜 Neutral Point Grounding Cubicle

多种结构形式的中性点结构，可满足不同容量发电机组的配置要求。

With various structure of neutral cubicle, it satisfies the disposal requirement for different capacities of generator.

多种结构形式的伸缩结构，不仅能满足现场的不同情况，实现最简安装，同时也能满足不同沉降及热胀冷缩引起的伸缩要求。

With various structure models of expansion joint, it not only satisfies the simplest installation as per on-site different demands, but also meets the requirement of expanding and contracting due to temperature changing.



伸缩节 Expansion Jointer

在封闭母线系统中加装减震器后，使封闭母线外壳支持实现了三维空间的弹性支持，较好地避免了外壳产生的机械振动及地震波给封闭母线带来的破坏，同时可变多点接地方式为两点接地方式。

With snubber being used in the enclosed bus duct system, it makes the bus duct enclosure carry out three dimensional spaces spring supporting and prevents the bus duct from damage due to enclosure mechanical vibration and earthquake. Meantime, the multipoint grounding model can be turned into two points grounding model.



减震器 Snubber



多种形式密封套管
Kinds of Model of Sealing Bushing



BUDF-1超声波探伤仪
Model BUDF-1 Ultrasonic Wave Penetrating Detector



X射线探伤测试仪
The Tester with X-ray Penetrating Detector



温升试验设备
Temperature Rising testing equipments



耐压试验设备
The Withstand Voltage Test equipments



母线加工机(德国)
Busbar Processing Machine(Germany)



数控折弯机(意大利)
Computer-controlling Bending Machine (Italy)



进口全自动微机控制4辊卷板机(瑞典)
The Fully Automatic Micro-processor Control Bending
Machine with 4 Rollers (Imported from Sweden)



进口坡口机(瑞典)
The Beveling Machine (Imported from Sweden)



进口全自动纵缝焊接工作站(瑞典)
The Fully Automatic Vertical-seam Welding Station
(Imported from Sweden)



进口全自动环缝焊接工作站(瑞典)
The Fully Automatic Ring-seam Welding Station
(Imported from Sweden)



金属粉末喷涂生产线(台湾)
Powder Painting Line (Taiwan)



热浸锌加工系统(德国)
Hot-dip galvanizing system (Germany)

主要业绩

Main Supply Record



三峡水电站
Three Gorges Hydropower Station

新安江电厂是我国目前封闭母线落差最大的水力发电厂，在其增容改造过程中，我司成为九台机组封闭母线的唯一供货商。我司生产的长垂直段，长倾斜段封闭母线采用先进的微机辅助设计和计算系统，对温湿度进行全电脑自动实时监控，得到专家和用户的一致好评。

The IPB for Xin'anjiang Hydropower Station is the highest in our country. We supplied enclosed bus duct for all nine units during its restructuring. Advanced CAD and calculation system were applied in design for long vertical and long gradient segment. Temperature and humidity in IPB can be monitored and controlled. We won high praise from authorities and customers.



伊朗阿拉克电厂
Arak Thermal Power Plant in Iran

1999年，我厂在三峡电站左岸14台840MW机组的离相封闭母线及中高压附属设备柜的招标活动中一举夺魁，现左岸工程机组均已满负荷成功运行超过2年。2004年我方再次获得该工程右岸封闭母线及附属设备的供货权，成为三峡工程封闭母线设备的唯一供货商，也因此成为国内水电700MW以上机组配套离相封闭母线的唯一制造商。

In 1999, we won the bid for IPB & Associated High and Medium Switchgear for Three Gorges Left Dam Project (14 × 840MW). Now all equipment served in Left Dam have been successful live load more than 2 years since the date of test-running. And in 2004, we won the bid again for same equipment of Three Gorges Right Dam project (12 × 840MW). We became the unique IPB supplier for Three Gorges project and the sole manufacturer for hydroelectric generator unit with the capacity over 700MW in China.



新安江电厂
Xin'anjiang Water Hydropower Station

伊朗阿拉克电厂是我国在国外承包的重点项目，我厂凭借雄厚的实力承包了所有封闭母线的制造任务。该母线运行良好，并得到承包商和外方的一致好评，成为此项目封闭母线产品的优秀供应商。

Arak Thermal Power Plant in Iran is a major project contracted by our country at abroad. We undertook manufacture task for all the enclosed bus duct. Till now the enclosed bus runs satisfactorily, which was highly appraised by both contractor and owner. We is the excellent enclosed bus supplier.

■ 国内用户业绩表

Chinese Domestic Supply Record

水电机组工程 Hydropower Plant Project

长江三峡水电站26×840MW机组
Three Gorges Hydropower Plant 26×840MW

广西龙滩水电站7×700MW机组
Guangxi Longtan Hydropower Plant 7×700MW

湖北清江水布垭水电站4×400MW机组
Hubei Qingjiang Shuibuya Hydropower Plant 4×400MW

云南小湾水电站6×700MW机组
Yunnan Xiaowan Hydropower Plant 6×700MW

云南澜沧江景洪水电站5×400MW机组
Yunnan Lantsang Jinghong Hydropower Plant 5×400MW Plant Phase-II 300MW

贵州乌江渡发电厂改造工程3×300MW机组
Guizhou Wujiangdu Hydropower Plant Rebuilding Project 3×300MW

贵州乌江渡发电厂扩建工程2×300MW机组
Guizhou Wujiangdu Hydropower Plant Enlarging Project 3×300MW

贵州天生桥一级水电站4×300MW机组
Guizhou Tianshengqiao Hydropower Plant 4×300MW

四川岷山紫坪铺水电站4×300MW机组
Sichuan Minshan Zipingpu Hydropower Plant 4×300MW

浙江新安江水电站9×300MW机组
Zhejiang Xinanjiang Hydropower Plant 9×300MW

青海黄河公伯峡水电站4×300MW机组
Qinghai Yellow River Gongboxia Hydropower Plant 4×300MW

贵州北盘江光照水电站4×300MW机组
Guizhou Beipanjiang Guangzhao Hydropower Plant 4×300MW

山西黄河万家寨电站2×200MW机组
Shanxi Yellow River Wanjiashai Hydropower Plant 2×200MW

贵州索风营水电站3×200MW机组
Guizhou Suofengying Hydropower Plant 3×200MW

湖南凤滩水电站2×200MW机组
Hunan Fengtan Hydropower Plant 2×200MW

湖南碗米坡水电站3×135MW机组
Hunan Wanmipo Hydropower Plant 3×135MW

广西乐滩水电站4×135MW机组
Guangxi Letan Hydropower Plant 4×135MW

广西平班水电站3×135MW机组
Guangxi Pingban Hydropower Plant 3×135MW

福建街面水电站2×150MW机组
Fujian Jiemian Hydropower Plant 2×150MW

福建穆阳溪周宁水电站2×125MW机组
Fujian Muyangxi Zhounin Hydropower Plant 2×125MW

新疆吉林台一级水电站4×135MW机组
Sinkiang Jielintan Hydropower Plant 4×135MW

贵州引子渡水电站3×120MW机组
Guizhou Yinzidu Hydropower Plant 3×120MW

湖北高坝洲水电站3×100MW机组
Hubei Gaobazhou Hydropower Plant 3×100MW

湖南江垭水电站3×100MW机组
Hunan Jiangya Hydropower Plant 3×100MW

黑龙江尼尔基水电站4×100MW机组
Helongjiang Nierji Hydropower Plant 4×100MW

黄河苏只水电站4×100MW机组
Yellow Rive Suzhi Hydropower Plant 4×100MW

四川田湾河水电站6×100MW机组
Sichuan Tianwanhe Hydropower Plant 6×100MW

黄河小峡水电站3×60MW机组
Yellow Rive Xiaoxia Hydropower Plant 3×60MW

广东惠州抽水蓄能电站8×300MW机组
Guangdong Huizhou Pumping Storage Power Plant 8×300MW

河南宝泉抽水蓄能电站4×300MW机组
Henan Baoquan Pumping Storage Power Plant 8×300MW

火电机组工程 Thermal Power Plant Project

广东海门电厂4×1000MW机组
Guangdong Haimen Power Plant 4×1000MW

浙江玉环电厂4×1000MW机组
Zhejiang Yuhuan Power Plant 4×1000MW

华电山东邹县电厂2×1000MW机组
HuaDian Shandong ZouXian Power Plant 2×1000MW

浙江宁海电厂2×1000MW机组
Zhejiang Ninghai Power Plant 2×1000MW

浙江大唐乌沙山电厂4×600MW机组
Zhejiang Datang Wushashan Power Plant 4×600MW

浙江嘉兴电厂4×600MW机组
Zhejiang Jiaxing Power Plant 4×600MW

浙江宁海电厂4×600MW机组
Zhejiang Ninhai Power Plant 4×600MW

内蒙古大唐托克托电厂6×600MW机组
Inner Mongolia Datang toketuo Power Plant 6×600MW

内蒙古京隆发电有限公司2×600MW机组
Inner Mongolia Jinglong Power Plant 2×600MW

内蒙古元宝山电厂1×600MW机组
Inner Mongolia Yuanbaoshan Power Plant 1×600MW

内蒙古通辽电厂1×600MW机组
Inner Mongolia Tongliao Power Plant 1×600MW

山西大同二电厂2×600MW机组
Shanxi Datong No.2 Power Plant 2×600MW

山西武乡电厂4×600MW机组
Shanxi Wuxiang Power Plant 4×600MW

山东费县电厂2×600MW机组
Shandong FeiXian Power Plant 2×600MW

河北西柏坡电厂2×600MW机组
Hebei Xibaipo Power Plant 2×600MW

河北黄骅电厂2×600MW机组
Hebei Huanghua Power Plant 2×600MW

河北大唐王滩电厂4×600MW机组
Hebei DaTang Wangtan Power Plant 4×600MW

大唐吕世港电厂4×600MW机组
DaTang Lv Sigang Power Plant 4×600MW

陕西国华锦界发电厂4 × 600MW机组 Shanxi GuoHua Jinjie Power Plant 4 × 600MW	河南大唐洛阳热电厂2 × 300MW机组 Henan Datang Luoyang Thermal Power Plant 2 × 300MW
陕西银河府谷电厂2 × 600MW机组 Shanxi Yinhe Fugu Power Plant 2 × 600MW	河南鹤壁电厂2 × 300MW机组 Henan Hebi Power Plant 2 × 300MW
宁夏灵武电厂2 × 600MW机组 Ninxia Lingwu Power Plant 2 × 600MW	河南永城电厂2 × 300MW机组 Henan Yongchen Power Plant 2 × 300MW
河南新乡宝山电厂2 × 600MW机组 Henan Xinxiang Baoshan Power Plant 2 × 600MW	河南伊川电厂2 × 300MW机组 Henan Yichuan Power Plant 2 × 300MW
河南南阳天益发电有限公司2 × 600MW机组 Henan Nanyang Tianyi Power Plant 2 × 600MW	河北上安电厂2 × 300MW机组 Hebei Shang'an Power Plant 2 × 300MW
河南鹤壁兴鹤电厂2 × 600MW机组 Henan Hebi Xinghe Power Plant 2 × 600MW	河北秦皇岛热电厂三期工程2 × 300MW机组 Hebei Qinhuangdao Thermal Power Plant Phase III Project 2 × 300MW
江苏江阴利港电厂4 × 600MW机组 Jiangsu Jiangyin Ligang Power Plant 4 × 600MW	京达发电有限责任公司2 × 300MW机组 Jingda Power Plant 2 × 300MW
江苏徐州邗山电厂2 × 600MW机组 Jiangsu Xuzhou Kanshan Power Plant 2 × 600MW	内蒙古达拉特电厂2 × 300MW机组 Inner Mongolia Dalate Power Plant 2 × 300MW
安徽淮南田集电厂2 × 600MW机组 Anhui Huainan Tianji Power Plant 2 × 600MW	内蒙古蒙华海勃湾电厂2 × 300MW机组 Inner Mongolia MengDian HuaNeng Haibowan Power Plant 2 × 300MW
湖北荆门电厂2 × 600MW机组 Hubei Jingmen Power Plant 2 × 600MW	内蒙古乌拉山电厂2 × 300MW机组 Inner Mongolia Wulashan Power Plant 2 × 300MW
江西黄金埠电厂2 × 600MW机组 Jiangxi Huangjinbu Power Plant 2 × 600MW	内蒙古临河热电厂2 × 300MW机组 Inner Mongolia Linhe Thermal Power Plant 2 × 300MW
贵州发耳电厂4 × 600MW机组 Guizhou Faer Power Plant 4 × 600MW	内蒙古新丰电厂2 × 300MW机组 Inner Mongolia Xinfeng Power Plant 2 × 300MW
湖南鲤鱼江电厂2 × 600MW机组 Hunan Liyujiang River Power Plant 2 × 600MW	内蒙古准大发电厂2 × 300MW机组 Inner Mongolia Zhunda Power Plant 2 × 300MW
广东湛江奥里油发电厂2 × 600MW机组 Guangdong Zhanjiang Aoliyou Power Plant 2 × 600MW	内蒙古包头第三热电厂2 × 300MW机组 Inner Mongolia Baotou No.3 Thermal Power Plant 2 × 300MW
广东大唐潮州发电有限责任公司4 × 600MW机组 Guangdong DaTang Chaozhou Power Plant 4 × 600MW	甘肃平凉电厂2 × 300MW机组 Gansu Pingliang Power Plant 2 × 300MW
福建可门电厂2 × 600MW机组 Fujian Kemen Power Plant 2 × 600MW	陕西蒲城电厂3 × 300MW机组 Shanxi Pucheng Power Plant 2 × 300MW
福建福州江阴电厂2 × 600MW机组 Fujian Fuzhou Jiangyin Power Plant 2 × 600MW	山西河津电厂2 × 300MW机组 Shanxi Hejin Power Plant 2 × 300MW
四川泸州电厂2 × 600MW机组 Sichuan Luzhou Power Plant 2 × 600MW	山西永济电厂2 × 300MW机组 Shanxi Yongji Power Plant 2 × 300MW
四川金堂电厂2 × 600MW机组 Sichuan Jintang Power Plant 2 × 600MW	山西兴能发电有限责任公司2 × 300MW机组 Shanxi Xingneng Power Plant 2 × 300MW
黑龙江双鸭山电厂2 × 600MW机组 Heilongjiang Shuangyashan Power Plant 2 × 600MW	山东胜利电厂2 × 300MW机组 Shandong Shengli Power Plant 2 × 300MW
江苏张家港华兴发电有限公司2 × 400MW机组 Jiangsu Zhangjiagang Huaxing CCGT Project 2 × 400MW	国电山东蓬莱电厂2 × 300MW机组 GuoDian Shandong Penglai Power Plant 2 × 300MW
浙江半山电厂3 × 400MW机组 Zhejiang Banshan CCGT Project 2 × 400MW	山东菏泽电厂2 × 300MW机组 Shandong Heze Power Plant 2 × 300MW
浙江余姚燃气电站3 × 400MW机组 Zhejiang Yuyao CCGT Project 3 × 400MW	山东肥城石横电厂2 × 300MW机组 Shandong Feicheng Shiheng Power Plant 2 × 300MW
浙江温州电厂2 × 300MW机组 Zhejiang Wenzhou Power Plant 2 × 300MW	江苏新海电厂2 × 300MW机组 Jiangsu Xinhai Power Plant 2 × 300MW
河南郑州燃气电站2 × 400MW机组 Henan Zhengzhou CCGT Project 2 × 400MW	安徽池州电厂2 × 300MW机组 Anhui Chizhou Power Plant 2 × 300MW
河南中原燃气电站2 × 400MW机组 Henan Zhongyuan CCGT Project 2 × 400MW	安徽铜陵电厂1 × 300MW机组 Anhui Tongling Power Plant 1 × 300MW
河南新密电厂2 × 300MW机组 Henan Xinmi Power Plant 2 × 300MW	江西井冈山电厂2 × 300MW机组 Jiangxi Jinggangshan Power Plant 2 × 300MW
河南平东电厂2 × 300MW机组 Henan Pingdong Power Plant 2 × 300MW	重庆合川双槐电厂2 × 300MW机组 Chongqing Hechuan Shuanghuai Power Plant 2 × 300MW

重庆白鹤电厂2×300MW机组
Chongqing Baihe Power Plant 2×300MW

贵州安顺电厂2×300MW机组
Guizhou Anshun Power Plant 2×300MW

贵州黔北电厂2×300MW机组
Guizhou Qianbei Power Plant 2×300MW

贵州大龙电厂2×300MW机组
Guizhou Dalong Power Plant 2×300MW

贵州鸭溪电厂4×300MW机组
Guizhou Yaxi Power Plant 4×300MW

贵州纳雍电厂4×300MW机组
Guizhou Nayong Power Plant 4×300MW

贵州纳雍二电厂4×300MW机组
Guizhou Nayong No.2 Power Plant 4×300MW

贵州大方电厂4×300MW机组
Guizhou Dafang Power Plant 4×300MW

四川华蓥山电厂2×300MW机组
Sichuan Huayingshan Power Plant 2×300MW

广西合山电厂2×300MW机组
Guangxi Heshan Power Plant 2×300MW

广西北海电厂2×300MW机组
Guangxi Beihai Power Plant 2×300MW

云南宣威电厂4×300MW机组
Yunnan Xuanwei Power Plant 4×300MW

云南开远电厂2×300MW机组
Yunnan Kaiyuan Power Plant 2×300MW

国电小龙潭电厂2×300MW机组
GuoDian Xiaolongtan Power Plant 2×300MW

青海格尔木电厂2×150MW机组
Qinghai Geermu Power Plant 2×150MW

新疆库车发电厂2×135MW机组
Xinjiang Kuche Power Plant 2×135MW

新疆石河子2×135MW机组
Xinjiang Shihezi Power Plant 2×135MW

■ 国外用户业绩表

Overseas Project Supply Record

伊朗阿拉克热电厂4×300MW机组
Iran Alark Thermal Power Plant 4×300MW

伊朗萨汉德热电厂4×300MW机组
Iran Sahand Thermal Power Plant 4×300MW

印度尼西亚中爪哇燃煤电站2×300MW机组
Indonesia Mid Java Coal-fired Power Plant 2×300MW

印度督伽坡电厂1×300MW机组
India Durgapur Power Plant 1×300MW

印度撒伽迪电厂2×300MW机组
India Sargardighi Power Plant 2×300MW

印度BALCO燃煤自备电站4×135MW机组
India BALCO Coal-fired Power Station 4×135MW

马来西亚古晋电厂2×55MW机组
Malaysia Gujing Power Plant 2×55MW

印尼北苏风港2×115MW燃煤电站项目
Indonesian North Labuhan Angin 2×115MW Coal-Fired Thermal Power Plant EGSA Guaracachi II Santa Cruz

刚果英布鲁水电枢纽
Congo Imboulou Hydraulic Power Plant Project

印度水电站工程
Indian JURALA Hydropower Plant Project

越南波夏河水电站2×110MW
Vietnam Song Ba Ha 2×110MW Hydropower Plant Project

印度古吉拉特4×23MW热电厂EPC工程
Indian Gujarat 4×23MW Thermal Power Plant EPC Project

美国伯克德1×600MW 5#
U.S.A BECHTEL Sondow steam Electric Station Unit 5

伊朗塔瓦兹电厂4×55MW机组
Iran Tavazon Power Plant 4×55MW

缅甸邦郎水电站4×135MW机组
Burma Banglang Hydropower Plant 4×135MW

越南宣光水电站3×114MW机组
Vietnam TUYEN QUANG Hydropower Plant 3×114MW

土耳其ICDASBIGA电站
Turkey ICDASBIGA Power Plant

格鲁吉亚卡杜里水电站
Georgia Khadori Hydropower Plant

巴基斯坦马兰水电站
Pakistan Neelum-Jhelum Hydropower Plant

玻利维亚EGSA Guaracachi II Santa Cruz工程
Bolivia EGSA Guaracachi II Santa Cruz Project

印度维柯拉姆2×23MW热电厂EPC工程
Indian Vikram 2×23MW Thermal Power Plant EPC Project

印度朗科2×300MW燃煤电厂项目
Lanco Amarkantak Power Private Limited(2×300MW Coal based Thermal Power Plant)

印尼苏门答腊巴拉旺MILL扩建工程
Indonesian Sumatra Perawang Mill Project

越南锦普燃煤火力发电厂封闭母线
Vietnam Cam Pha Coal-Fired Thermal Power Plant

奎那拉工程
KWINANA Project AUSTRALIA

越南电力公司项目邦克水电站 2×200MW
Viet Nam Electronilsand Informaties Joint Stock Corporation

墨西哥巴家项目
CCC baja Mexim

资质证书

Qualification Certificates



型式试验报告
Type Test Reports





大全集团·江苏大全封闭母线有限公司

地址：中国江苏省扬中市开发区

电话：0511-88227809 传真：0511-88227828

网址：www.daqo.com

Add:Development Zone,Yangzhong City Jiangsu Province.P.R.C.

Tel:0511-88227809 FAX:0511-88227828

E-mail:busbar@daqo.com



 大全集团 是大全集团的商标或注册商标，各子分公司商标具有同等保护权。

我们相信本资料是对当前主题的最有效反映，它能让您为了更全面的了解当前主题而提供帮助，当我们进一步了解并取得经验后，我们会对其进行修订。大全集团对有关资料所产生的结果概不保证，也不承担任何责任。任何人采用该出版物中的有关设备、加工技术或化学产品的建议，首先应该确保这些建议适合他的用途，并且达到所有适当的安全和健康标准。该出版物不能视作允许侵犯或企图侵犯任何现有专利权，对于非大全集团制造的产品参考并不意味着对指定产品认可或者其他相似产品的适用。