



云南东数科技有限公司

YUNNAN DONGSHU TECHNOLOGY CO., LTD

联系方式: 15911749500 18788509880 传真: 0871-68053386

办公地址: 云南省昆明市西山区百集龙商业城C栋1104 (红苹果酒店12楼)

工厂地址: 云南省昆明市西山区普坪村大箐路48号

工厂地址2: 云南省昆明市普建路92号





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云南东数科技有限公司简介 | About Us

多年来，云南本土水电站水轮机数控高质转轮一直依靠外省企业或国外提供，价格昂贵，路途遥远，服务不畅，工期难保证，经常导致水电站发电大受影响；为此，我们联合相关生产企业一起成立了云南东数科技有限公司。企业以云南众多先进数控生产资源设备为基础，结合云南本地地域优势，专注于冲击式转轮及混流转轮上冠、下环、叶片、导水机构、喷管、喷针等水轮机核心部件的全数控生产、修理和维护；专为电站提供优质高效转轮和及时可靠的电站现场服务。

无人值守水电站方面，公司拥有专业团队，完全具备设计、实施无人值守水电站及现场电控维护能力；并在全集成无人值守电站基础上，公司工作团队一直致力于智能化与自动化的深度融合，着手探索建设“互联网+”智能水电站作为未来的发展目标。重点探索互联网+”智能水电站与大数据、云计算、工业4.0等信息技术的融合，推动水电站数字化、网络化、智能化，充分利用物联网、云计算和大数据等技术，研发和建立数字水电站，利用设备运行维护预判技术、远程服务及资源技术共享数据网，促进智能水电站设备自动建设与服务。

服务方面，公司推行一站式全程服务，包含水电站主机（水轮机、发电机）、辅机（励磁系统、调速机）、电控（机组监控、机组保护、无人值守系统）、智能电站（远程集控、智能诊断、远程预判、远程维护、远程协助）全套服务。



云南东数科技有限公司
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company profile

For many years, in Yunnan, hydro-power station turbine CNC high quality runners have been always provided by other provincial enterprises or foreign enterprises. Not only these services are expensive, need a long way to go, not smooth, difficult to ensure the construction period, but also often greatly affected the production; therefore, we have joined with relevant production enterprises to set up Yunnan Dongshu Science and Technology Co., Ltd. In Yunnan, having many advanced CNC production resources and equipment and taking the regional advantages of Yunnan, we focus on the CNC production, repairing and maintenance of the core components of hydraulic turbines, such as impact runner and mixed flow runner, upper crown, lower ring, blade, water guide mechanism, nozzle, needle, etc.; we provide high-quality and high-efficiency runner and timely-reliable field service for power station.

Involving unattended hydro-power station, we have a professional team, fully equipped with the capacity: the design, implementation of unattended hydro-power station and field electronic control maintenance; and on the basis of the full integration of unattended hydro-power station, the team has been committed to the deep integration of intelligence and automation, and began to explore the construction of "Internet Plus" intelligent hydro-power station as the future development goal. We focus on the "Internet Plus" intelligent hydro-power network, intelligent, making full use of the Internet of things, cloud computing and big data and other technologies, researching and development and establishment of digital hydro-power stations, the use of equipment operation and maintenance prediction technology, remote service and resource technology to share data network, promoting the automatic construction and service of intelligent hydro-power station equipment.

In terms of service, we promote one-stop service, including main engine of hydro-power station (turbine, generator), auxiliary machine (excitation system, speed regulator), electronic control (unit monitoring, unit protection, unattended system), intelligent power station (remote centralized control, intelligent diagnosis, remote prediction, remote maintenance, remote assistance).



机械

Machine

(转轮制作)

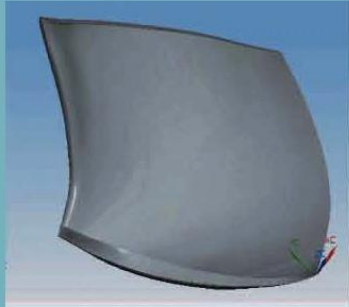
Runner manufacturing

冲击式转轮数控加工能力: (专注制造 优质高效)

NC machining ability of impact runner

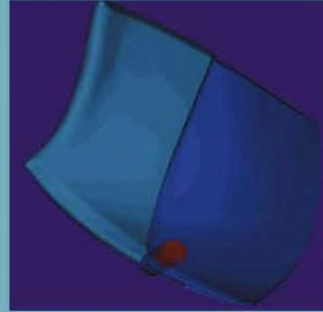
(Focus on manufacturing quality and efficiency)





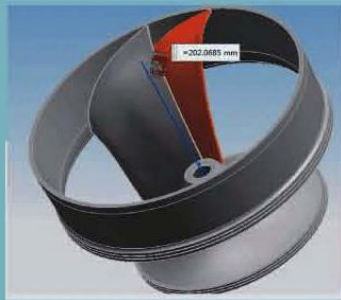
三维模型

3D model



加工仿真

chining simulation



三维装配

3D assembly



工作面加工

working face processing



转轮成品

Runner finished product

混式转轮加工能力
(专注制造 优质高效)

NC machining ability of
mixed-flow runner

(Focus on manufacturing
quality and efficiency)

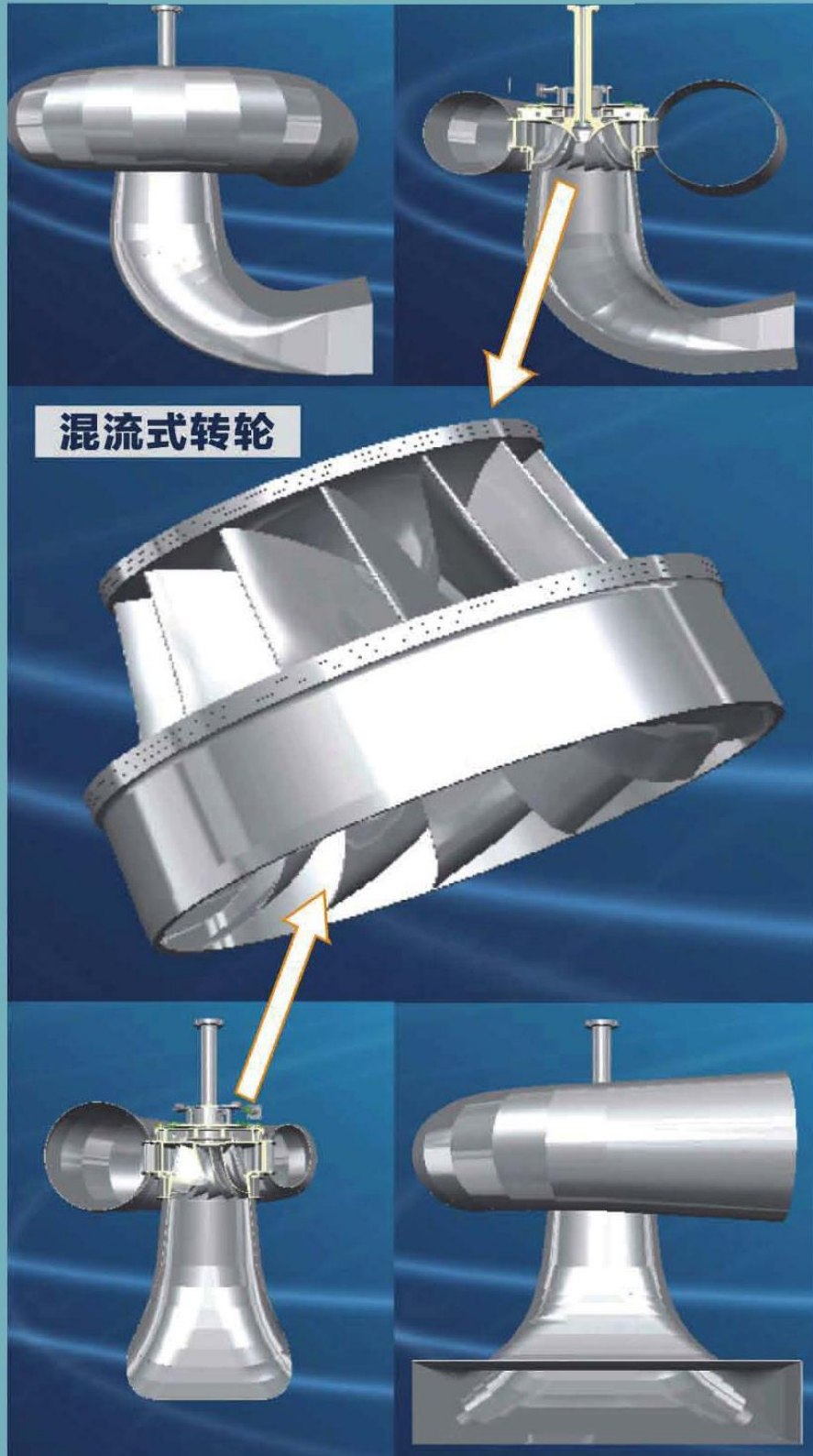


云南东数科技有限公司
YUNNAN DONGSHU TECHNOLOGY CO.,LTD

三维设计能力：（专注制造 优质高效）

3D design ability

(Focus on manufacturing quality and efficiency)



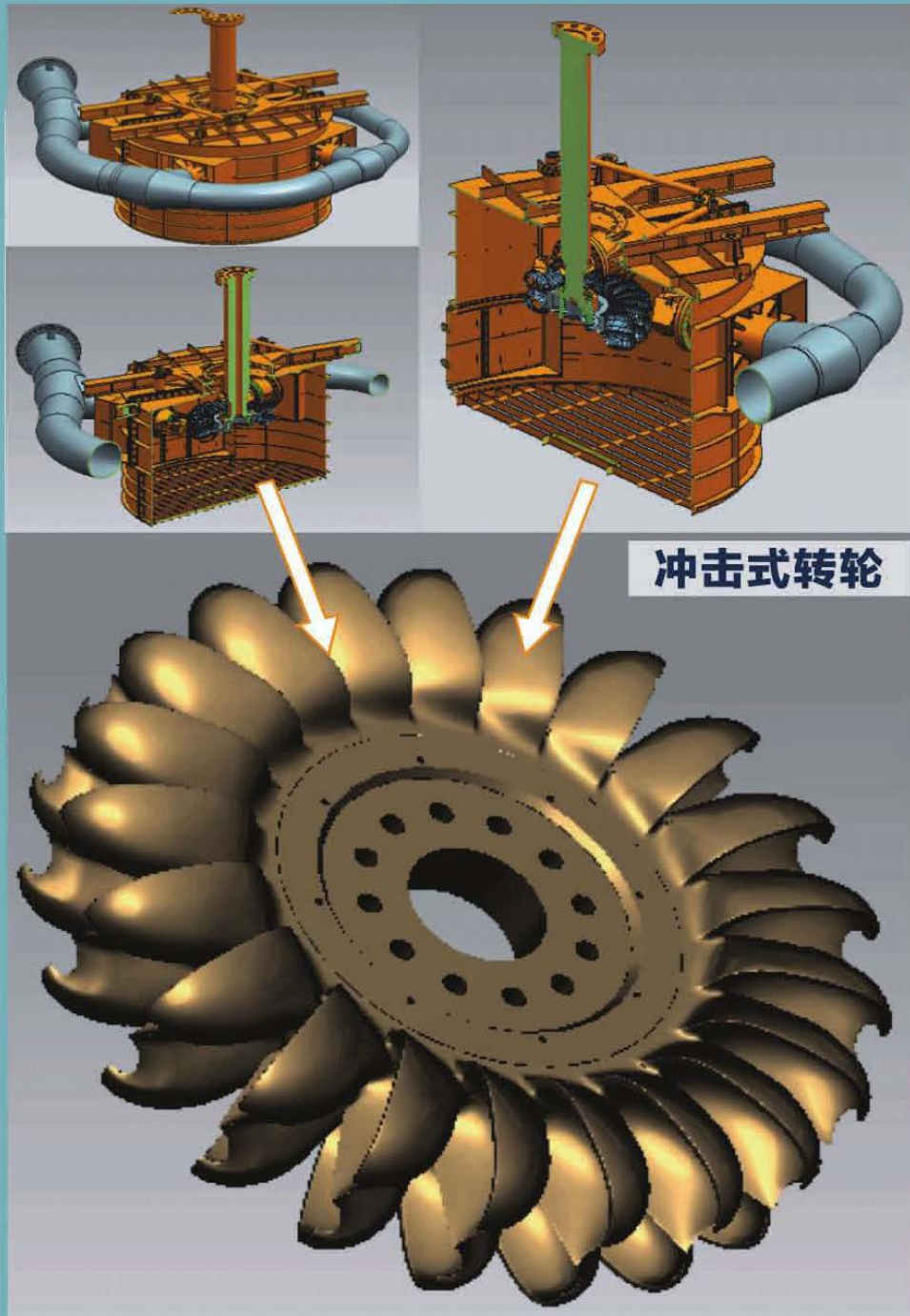


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三维设计能力：（专注制造 优质高效）

3D design ability

(Focus on manufacturing quality and efficiency)





云南东数科技有限公司
YUNNAN DONGSHU TECHNOLOGY CO., LTD

生产基地

production base

龙泉路工厂现场：（专注制造 优质高效）

Longquan Road Plant Site:

(Focus on manufacturing quality and efficiency)





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昆明机床厂加工现场：（专注制造 优质高效）

Processing site of Kunming Machine tool Factory

(Focus on manufacturing quality and efficiency)





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其他配件加工现场：（专注制造 优质高效）

Processing site of other accessories

(Focus on manufacturing quality and efficiency)





球阀修复

(Ball valve repair)

球阀修复前
Before



球阀修复前着色检查
Dye check



球阀修复中
Repairing




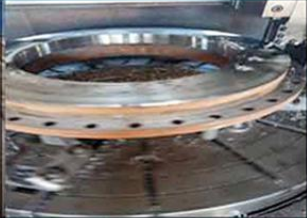


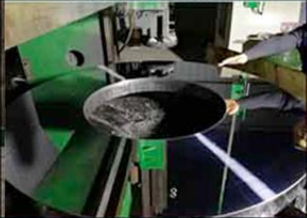















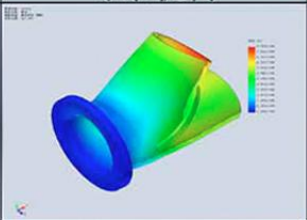


球阀修复完成
Ball valve repair completed





配件图片汇总

			
导叶修复前	导叶修复后	底环修复前	底环修复
			
顶盖修复	镜板粗磨	镜板精加工	转轮着色探伤检查
			
混流叶片	冲击式转轮水斗	冲击式转轮数控加工	冲击式成品转轮
			
混流转轮修复前	混流转轮修复后	转轮螺孔加工	尾水补气管加工
			
喷针	喷管装配	导水机构装配	导水机构
			
叉头大螺纹数控加工	叉头大螺纹检查	三维水斗	叉管有限元分析



Summary of accessories pictures

			
Before the guide vane repair	After the guide vane repair	Before the bottom ring repair	the bottom ring repair
			
Top cover repair	Rough grinding of mirror plate	Mirror plate finishing	Wheel coloring inspection
			
Mixed flow blade	Impact runner bucket	NC machining runner	Finished product impact runner
			
Before the repair of mixed flow runner	After the repair of mixed flow runner	Machining of rotor screw hole	Tail water replenishment pipe
			
Needle spray	Nozzle assembly	Water guide assembly	guide vane apparatus
			
NC machining of fork head with large thread	Inspection of fork head with large thread	Three-dimensional bucket	Finite element analysis of the cross tube



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电控

水电厂自动化系统采用符合国际国内最新标准的模块化、智能插件式和面向对象的一体化设计技术，具有自动控制功能、保护、测量、信号、在线监测、自诊断、可视化智能监控、运行指导、辅助分析决策、远动等功能。

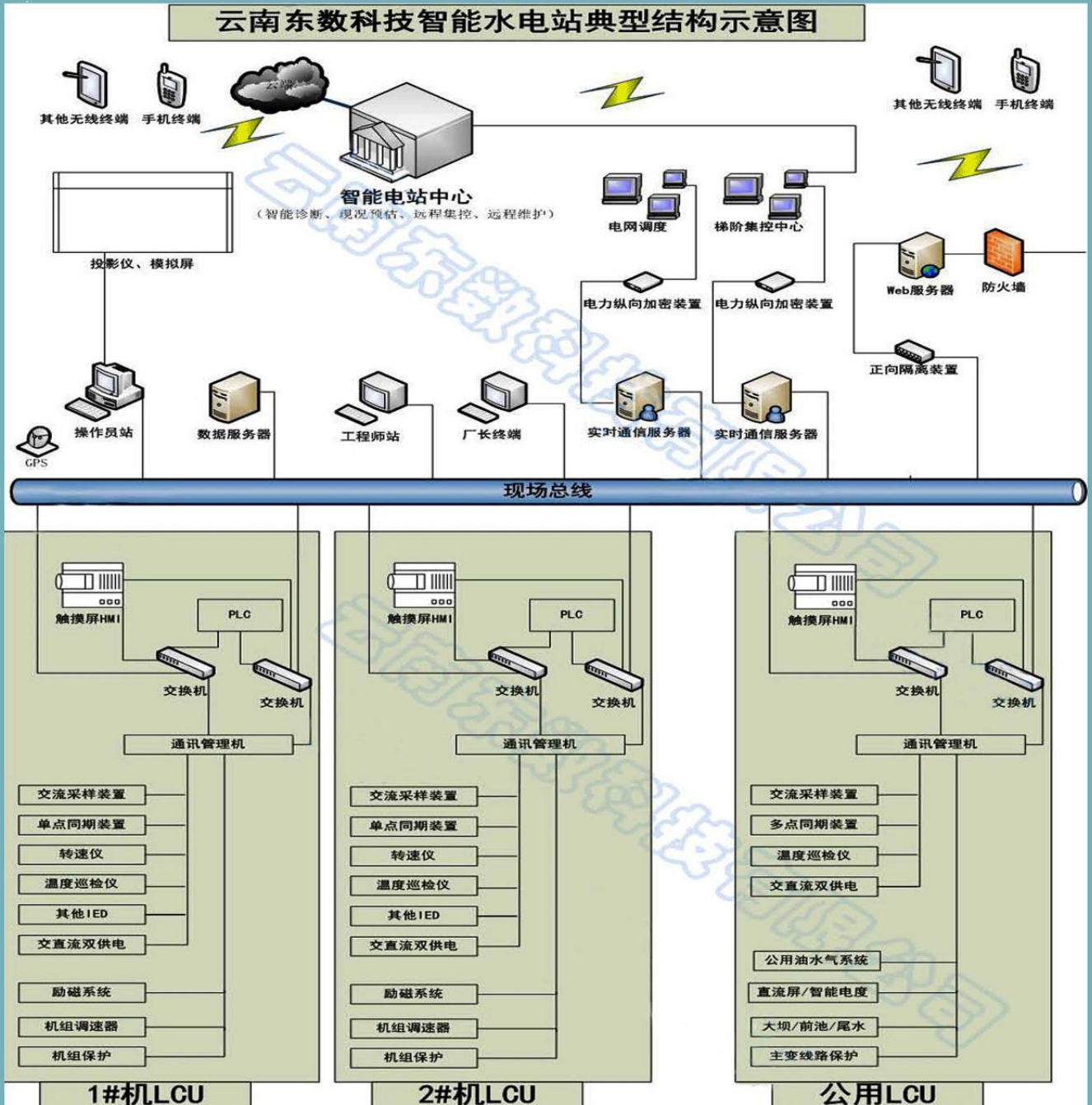
根据水电厂系统的机组容量、电厂规模、技术要求和投资等情况，会有不同的设备配置要求和技术集成应用方式。

drive-by-wire

The hydro-power plant automation system adopts modularization, intelligent plug-in and object-oriented integrated design technology in accordance with the latest international and domestic standards. It has the functions of automatic control, protection, measurement, signal, online monitoring, self-diagnosis, visual intelligent monitoring, operation guidance, auxiliary analysis and decision-making, telecontrol and so on.

According to the unit capacity, power plant scale, technical requirements and investment of hydropower plant system, there will be different equipment configuration requirements and technology integration application methods.

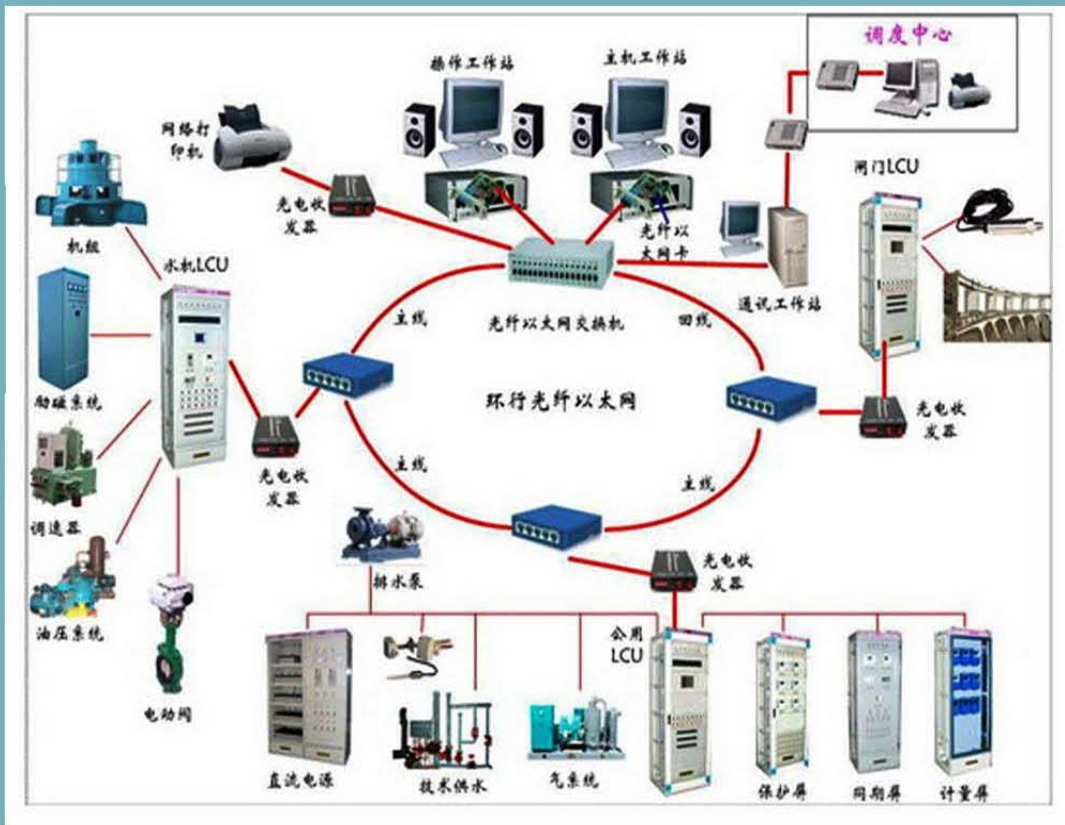
云南东数科技智能水电站典型结构示意图





无人值守水电厂网络结构示意图

Schematic diagram of network structure of unattended hydro-power plant





近期业绩表

序号	项目名称	用户单位	完工时间	质量评定结果
1	冲击式转轮的修复和修理	支那河水电站	2017年7月	优良
2	数控混流转轮成品叶片加工	昆明茂凯水轮机发电设备安装有限公司	2017年08月	优良
3	成品轴瓦浇铸、生产	越南小中河电站	2017年8月	优良
4	喷针、喷嘴口加工（数控）	香格里拉市中吉能源有限责任公司	2017年09月	优良
5	小湾水电站叉头螺纹修复	华能澜沧江水电股份有限公司	2017年9月	优良
6	数控成品叶片、导叶加工	云南省玉溪市水力发电设备有限责任公司	2017年10月	优良
7	球阀（QF500-WY-80）修理和改造（数控球面）	香格里拉市中吉能源有限责任公司	2017年10月	优良
8	导水机构、转轮的修理	桥寨坪电站	2017年10月	优良
9	1号发电机顶盖、底环、集电环、转轮加工修复	云南罗平锌电股份有限公司	2017年12月	优良
10	数控成品转轮（HLA920-LJ-102）	金河科技有限公司	2018年03月	优良
11	辊式破碎机滚套加工	云南壮山实业股份有限公司	2018年06月	优良
12	大寨河三级水电站1号水轮机组故障处理和安装工程	金平康宏水电开发有限公司	2018年9月	优良
13	二级电站水管改造和安装工程	景东彝族自治县忙路河水电有限责任公司	2018年11月	优良
14	华能里底水电站水轮机部件修理	水电十四局里底项目组	2018年11月	优良



performance table of the company

No	Project name	User unit	Completion time	Quality evaluation results
1	Repair of impact Runner	Zhina River Hydropower Station	July 2017	fine
2	Machining of finished Blade of NC mixed flow Runner	Kunming Maokai hydraulic Turbine Power Generation equipment installation Co., Ltd.	Aug 2017	fine
3	cast and produce of the finished product bearing bush	Small and medium River Power Station in Vietnam	Aug 2017	fine
4	Process of needle and nozzle mouth (numerical control)	Shangri-La Zhongji Energy Co., Ltd.	Sep 2017	fine
5	Repair of fork thread of Xiaowan Hydropower Station	Huaneng Lancang River Hydropower Co., Ltd.	Sep 2017	fine
6	NC finished blade, guide vane processing	Yunnan Yuxi City Hydropower Plant Co., Ltd.	Oct 2017	fine
7	Repair and modification of ball valve (qf500-wy-80) (CNC sphere)	Shangri-La Zhongji Energy Co., Ltd.	Oct 2017	fine
8	Repair of water guide mechanism and rotating wheel	Qiaozhaiping Hydropower Station	Oct 2017	fine
9	No.1 generator top cover, bottom ring, collector ring, runner processing and repair.	Yunnan Luoping Zinc Power Co., Ltd.	Dec 2017	fine
10	CNC finished product runner (HLA920-LJ-102)	Jinhe technology co., Ltd.	Mar 2018	fine
11	Rolling sleeve processing of Roller Crusher	Yunnan Zhuangshan Industrial Co., Ltd.	Jun 2018	fine
12	Fault Treatment and Installation of No. 1 Turbine Unit of Three-level Hydropower Station of Dazhai	Jinping Kanghong Hydropower Development Co., Ltd.	Sep 2018	fine
13	Retrofit and installation of Water Pipe in Secondary Power Station	Jingdong Yi Autonomous County busy Lu he Hydropower Co., Ltd.	Nov 2018	fine
14	Repair of hydraulic Turbine components of Huaneng Lidi Hydropower Station	Water and electricity fourteen local bottom project team	Nov 2018	fine



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营业执照

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名称	云南东数科技有限公司	注册资本	壹仟万元整
类型	有限责任公司(自然人投资或控股)	成立日期	2017年05月18日
法定代表人	翟绪强	营业期限	2017年05月18日至 2027年05月17日
经营范围	发电成套设备及配件、水轮机及辅助机械设备、钢结构制造、销售、安装；水轮机技术研发；数控设备的加工；数控技术的研发及推广；电站器件及配件的安装调试及维护；水电技术咨询及服务；智能软件和设备、三维软件、智能制造技术的研发和推广；货物及技术的进出口业务。（依法须经批准的项目，经相关部门批准后方可开展经营活动）		
住所	云南省昆明市西山区石安公路旁昆明云石商贸城2号楼11-12层1104室		



登记机关
2019 年 5 月 15 日



云南东数科技有限公司

YUNNAN DONGSHU TECHNOLOGY CO.,LTD





云南东数科技有限公司



联系人

公司网址：www.cnynds.cn

淘宝企业店铺：<https://shop235534104.taobao.com>

外贸店铺：<https://www.dhgate.com/store/21298532>

联系方式：15911749500 18788472863 传真：087168053386

办公地址：云南省昆明市西山区百集龙商业城C栋1104室（红苹果酒店12楼）

工厂地址1：云南省昆明市西山区普坪村大箐路48号

工厂地址2：云南省昆明市普建路92号