



QUALITY CHANGES THE WORLD 品质改变世界



中国 北京 昌平回龙观镇北清路 8 号三一产业园

SANY Industrial Park, No.8 Beiging Road, Huilongguan Town, Changping District, Beijing , China

中国 湖南 长沙经济技术开发区三一工业城

Sany Industrial Town, Economic & Technology Development Zone, Changsha, Hunan, China

电话 Tel 0731-84031888 售后服务热线 Service 4008 87 8318 传真 Fax 0731-84031999 咨询投诉电话 Consulting 4008 87 9318

www.sanygroup.com



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三一筑工依托三一集团在装备领域的优势 致力于用装备制造技术改造建筑业

TRelying on the advantages of SANY Group in the equipment field, SANY Construction Industry (SCI) is dedicated to rebuilding the construction industry with equipment manufacturing technology.

INTRODUCTION TO SANY GROUP
三一集团介绍

INDUSTRIALIZED CONSTRUCTION
建筑工业化

INTRODUTION TO SANY
CONSTRUCTION PC+
三一筑工 PC 专家



ZANY

三一集团

全球品类最全的建筑装备企业

SANY Group is the construction equipment manufacturer with the most comprehensive product line.

三一集团旗下拥有装备制造、建筑工业化、工业地产、新能源、银行、保险、大数据平台等多个产业

SANY Group covers business in many industries including equipment manufacturing, building industrialization, heavy industrial real estate, renewable energy, bank, insurance and big data, etc.

























三一的核心优势

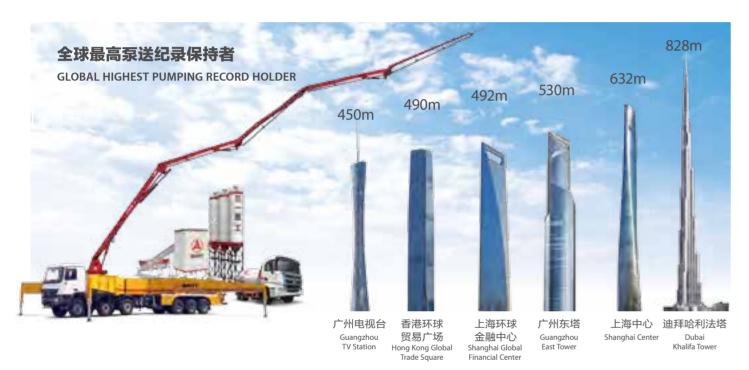
The Core Advantages of SANY

中国近 50% 商品混凝土由三一设备生产运输和泵送

全球近 40% 商品混凝土由三一设备运输和泵送

中国超过 50% PC 成套装备 由三一提供

Approximate 50% of the commercial concrete in China is produced, transported and pumped by SANY equipment. Approximate 40% of commercial concrete around the world is transported and pumped by SANY More than 50% of the full-set PC equipment in China is provided by SANY.









混凝土机械 全球第一

Concrete Machinery ranks NO.1 in the world

挖掘机械 中国第一

Excavating machinery ranks NO.1 in China

大吨位起重机械 中国第一 Large-tonnage hoisting machinery ranks NO.1 in China

桩工机械 中国第一

Piling machinery ranks NO.1 in China

全球领先的制造体系

THE WORLD'S LEADING MANUFACTURING SYSTEM

采用全球领先的 SPS 制造体系,拥有全球最大的混凝土机械制造工厂、全球最大的挖掘机五星级工厂、亚洲首家数字化工厂。

Adopt the world-leading SPS manufacturing system and possess the world-largest concrete machinery manufacturing factory, the world-largest five-star excavator manufacturing factory and the first digital factory in Asia.







政策普照 三一金融

SANY Financial Business Motivated by National Policy

受国家政策普照,三一金融业务全面发展。通过运用移动互联和大数据技术,采用集聚战略,专注于高端制造业,及其延伸的细分客户市场,为金融业带来了全新的视角。

Supported by national policy, SANY financial business develops fast in an all-round way. Through using mobile Internet and big data technology, SANY adopts integrated strategy, focus on high-end manufacturing industry and extends the segmentation of customer market, bringing a fully new perspective for the financial sector.





三一旗下湖南三湘银行,是中部首家民营银行专注高端制造、互联网金融的创新型民营银行

Sanxiang Bank of Hunan, a subsidiary of SANY Group, is the first private bank established in central China and also an innovative private bank that focuses on highend manufacturing and Internet finance.





久隆保险是首家服务于装备行业的保险公司 深耕智能制造业,结合物联网创新的商业模式

Deeply plowing in intelligent manufacturing and combining with innovative business pattern of the Internet of Things, Jiu Long Insurance Co., Ltd., a subsidiary of SANY Group, is the first insurance company in China that is specialized in providing service for the equipment industry.



三一汽车金融有限公司

SANY Automobile Financial Co., Ltd

致力于支持三一旗下主要产品销售 提升服务水平,实现产业与金融有机结合

Committed to supporting SANY product sales Enhance service level and realize the organic combination of industry and finance.



中国康富国际租赁有限公司

China kangfu international leasing co., ltd

开拓装备制造厂商外包、电力新能源 经营性租赁、跨境租赁、医疗 为中小企业打造个性化、运作与服务方案

Develop in equipment manufacturer outsourcing, new energy power, commercial leasing, cross-border leasing and medical care. Provide individualized operating and service plans for medium and small enterprises.

全球产业布局

Global Industrial Layout

国际产业布局: 美国、德国、印度、巴西建厂,并购德国"普茨迈斯特",合资奥地利帕尔菲格,产品销往 120 多个国家和地区

GLOBAL INDUSTRY LAYOUT: We invested and built industrial parks in US, Germany, India and Brazil. We acquired Putzmeister—the world's No. 1 brand in concrete machinery building and joint-ventured with Palfinger AG. We sell products to over 120 countries and regions.



三一德国

北威州贝德堡市

SANY GERMANY

Bedgurg, Nordrhein-Westfalen

普茨迈斯特

巴登 - 符腾堡州贝斯图加特市

Putzmeister

Stuttgart, Baden-wirtembergia



新疆产业基地

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混凝土机械、汽车起重机械、 挖掘机械、筑路机械

The Xinjiang Industry Base

Concrete Machinery, Truck Crane, Excavators, and Road Machinery

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国内产业布局: 上海、北京、沈阳、长沙、珠海、 西北等六大产业基地

Industry LAYOUT in China: We invested and built industrial parks in US, Germany, India and Brazil. We acquired Putzmeister—the world's No. 1 brand in concrete machinery building and joint-ventured with Palfinger AG. We sell products to over 120 countries and regions.



The Shenyang Industry Base Coal-Mining Machinery



北京产业基地

回龙观 / 南口 桩工机械

The Beijing Industry Base

Huilongguan, Nankou Pile-Driving Machinery



三一美国 乔治亚州桃树市 SANY AMERICA

SANY AMERICA Peachtree City, Georgia



三一巴西

SANY BRAZIL





马哈拉施特拉邦普纳市

SANY INDIA Pune, Maharashtra

<mark>印度工厂</mark> Sany's Facilities in India

珠海产业基地

港口机械

The Zhuhai Industry Base

Port Machinery



长沙地区产业基地

长沙/宁乡/益阳/常德/娄底/邵阳 混凝土机械、汽车起重机、筑路机械

Industry Bases in Changsha Area Changsha, Ningxiang, Yiyang, Changde, Loudi,

Concrete Machinery, Truck Crane, and Road Machinery



长三角产业基地

上海川沙/临港/昆山/湖州/如东/常熟挖掘机械、履带起重机械

Industry Bases in the Yangtze River Delta Shanghai Chuansha, Lingang, Kunshan, Huzhou, Rudong, Changshu

Excavators, Crawler Cranes



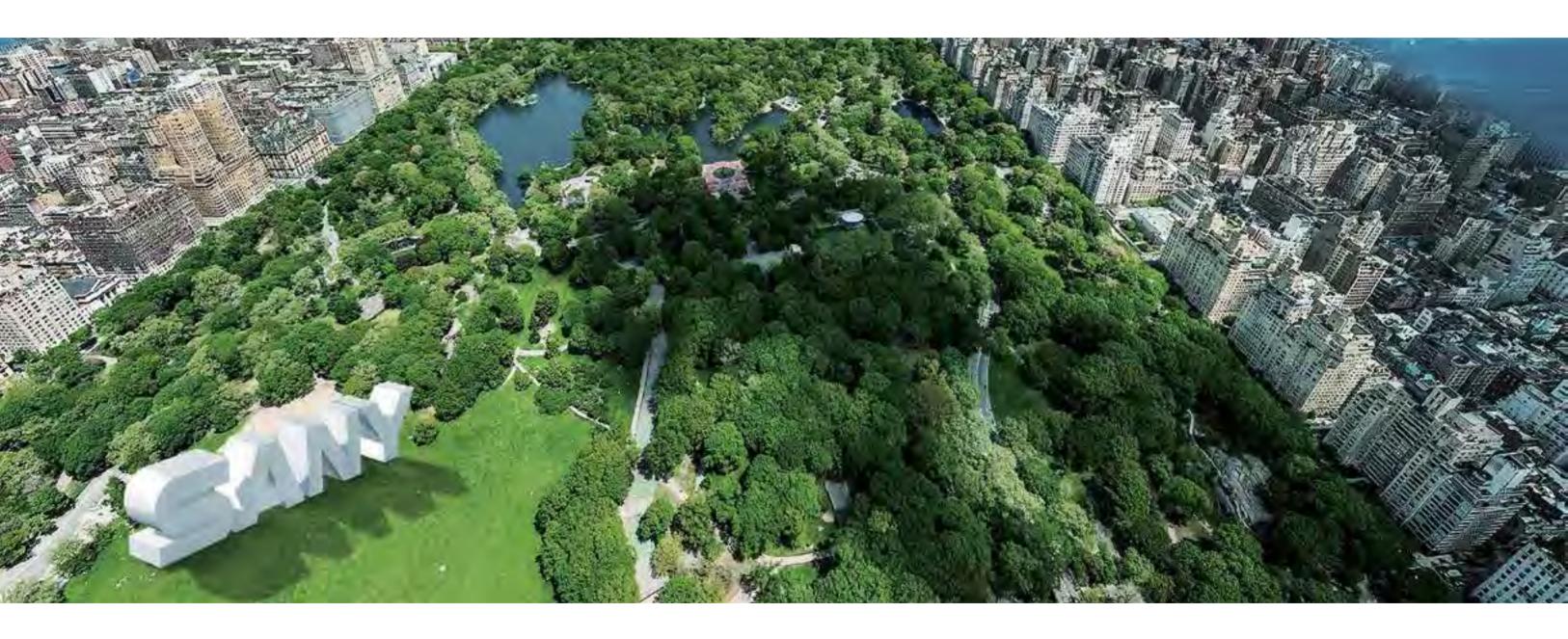
INDUSTRIALIZED CONSTRUCTION 建筑工业化

城市承载人类文明

City carries human civilization

城市是人类文明的重要组成部分,城市的出现是人类文明发展的开始。

City is an important part of human civilization and the appearance of city is the beginning of the development of human civilization.



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建筑是城市的主体

Architecture is the main body of the city

建筑是城市的代表与承载,我们一直不断地建造更多更适合人居的建筑,力求使生活品质更美好。

Architecture is representative and carrier of the city. We have been constantly building more and more suitable residential buildings, committing to making a better quality of life.



建筑工业化是大势所趋

Construction industrialization is the trend.

建筑方式

TRADITIONAL CONSTRUCTION

质量难以把控

Difficult to Control Quality

施工周期长

Time Consuming

成本控制粗放 Imprecise Cost Control

污染浪费

Pollution and Waste





筑 工业化

INDUSTRIALIZED CONSTRUCTION

品质稳定可控

Controllable and Reliable Quality

成本精确可控

Precise Cost Control

建造效率高

High Construction Efficiency

节能环保

Environmental-friendly

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PC 建筑是主流

PC construction is the main stream.

建筑工业化的主要形式有 PC、钢结构和木结构,在中国当前国情下,从建筑的适用性、稳定性、

抗压度、防火耐腐、建造成本和主材资源的可获得性比较可以看出,PC 建筑是建筑工业化的主流。

The main form of the construction industrialization includes PC, steel structure and wood structure. Under the current national conditions of China, PC architecture is the mainstream of construction industrialization with its advantages in suitability, stability, compressive degree, fireproofing, anti-corrosion, construction cost, and material resources availability.

建筑工业化主要类型对比

建筑类型	适用性	稳定性	抗压度	防火耐腐	建造成本	主材可获得性
PC 建筑	最多	高	高	高	略低	丰富
钢结构建筑	次之	较高	较高	较差	一般	丰富
木结构建筑	较少	一般	一般	差	最高	缺少

结论

PC 适用广泛,高层、多层、低层等建筑兼用,品质稳定可靠,抗压度高,防火性和耐腐蚀程度高, 建造成本略低,主要材料有丰富的可获得性

PC is widely used in high-rise, multi-layer, low-rise building construction with stable quality, high compressive capability, fireproofing and high anti-corrosion degree. What is more, the construction cost is relatively low and main material is rich in availability.

人类应该以更环保的方式追求生态人居及绿色地球的和谐

We should pursue the harmony of ecological habitation and green earth with more environmental-friendly pattern.



节水 80% Water Savings of 80%

湿作业显著减少 Significant Reduction of Water Use



节材 20%

Material saving 20%

无水平构件模板 / 无外架 / 无浪费 Without horizontal component template / outrigger/waste



节能 70%

Energy saving 70%

集中工业化生产,综合能耗低 Centralized industrial production with lower comprehensive energy consumption



节时 70% Time saving 70%

节约现场作业时间

Save time for field operation



Safety and environmental-friendly

抗震更强,工地整洁,低事故率,无焊接,噪声小 Realize stronger earthquake resistance to reduce loss from natural calamity. Keep the construction site clean to reduce the accident rate. No welding and little noise.



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INTRODUTION TO SANY CONSTRUCTION PC+

三一筑工 PC 专家

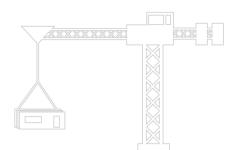


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从工程装备行业的领导者到

建筑工业化的推动者

FROM THE LEADER OF CONSTRUCTION MACHINERY MANUFACTURER TO THE PIONEER OF CONSTUCTION INDUSTRIALIZATION.



HISTORY

1989

三一集团成立

SANY Group was founded in 1989.



2007

三一成立上海竹胜园,进军房^J 产开发,尝试装配式建筑施工

In 2007, SANY unveils Shanghai Zhushengyuan Real Estate marked the beginning of the company's development in construction industrialization.



2015

通过中国住建部 "国家住宅产业化基地"的认证,合作成立新型建筑工业化技术研究中心

Certified as "National Housing Industrialization Base" by the Ministry of Housing and Urban-Rural Development of the PRC, the Research Center for New Construction Industry Technology were founded.



1994

三一重工成立,逐步成长为中国最大世界第五的工程基条制造商

Founded in 1994, SANY Heavy Industry grows into China's largest and the world's fifth largest construction machinery manufacturer.



2014

三一收购快而居(快而居成立于2008年),成为国内最大的PC成套装备提供商,为国内市场提供近40%的PC等系

In 2014, SANY acquired Fast-Living Co. Ltd, (founded in 2008), becoming China's largest provider for PC equipment solutions, accounting for 40% in Chinese market. 三一集团有限公司

国家住宅产业化基地

中华人民共和国住房和城乡建设部 二〇一五年三月

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三一 PC 建筑设计能力

SANY PC building design capacity

基于 BIM 的全流程信息化管理,进行建筑结构优化设计、科学拆分,进行新型建筑材料开发。

Optimized design of building structure and development of new building materials based on BIM information management of the whole process.



BIM 设计及运营管理

BIM design and operation management

基于 BIM 的三维设计,形成仿真数字化模型 与企业的 ERP、CRM 以及 ECC 控制中心对接 进行全流程信息化管理

Information management of the whole process by integrating the simulated digital model formed based on BIM 3-D design with SANY'S ERP, CRM and ECC control centers.

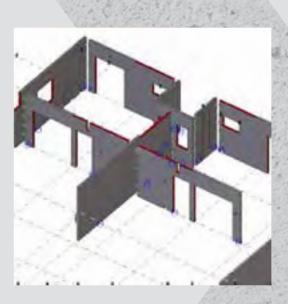


PC 建筑结构设计优化

Optimized design of PC building structure

基于 BIM 平台形成数字化建筑与 VR 结合进行建筑结构优化

Optimize the building structure by combining VR technology with the digital building formed based on BIM platform.



PC 建筑科学拆分

Scientific assembly/disassembly of PC building

通过数字仿真结合装配实验,使拆分做到迅速、合理、精细、准确

Combining digital simulation with assembly experiments to ensure the assembly/disassembly process is quick, reasonable, precise and accurate.



新型建筑材料开发

New building materials development

通过自主的 PC 实验工厂和材料实验室,进行新材料的研发实验

To conduct R&D of new building materials in independent PC pilot plants and material lab.

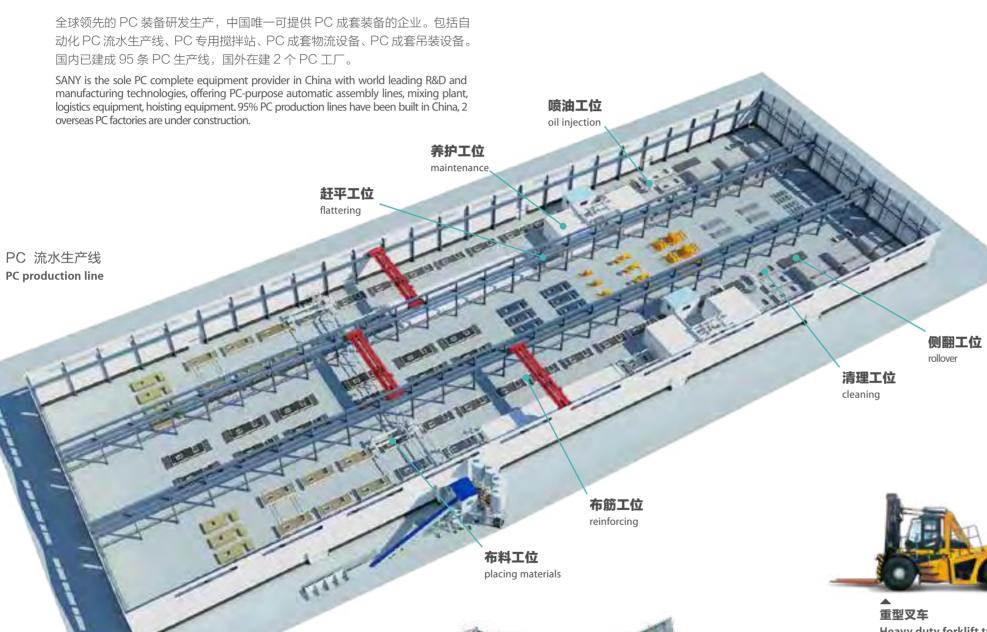
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三一 PC 装备能力

We provide the full set of pc equipment

中国超过 **50%PC** 成套装备 由三一提供

50% PC complete equipment in China are provided by SANY



混凝土搅拌站

Concrete batching plant

双卧轴搅拌, 镀锌防腐

Double shaft stirring, galvanized anti-corrosion high-pressure drive, clean thoroughly

高压驱动,清洗彻底

Heavy duty forklift truck

智能化程度高 动力强劲

A high degree of intelligence powerful



随车起重机系列 **Boom trucks**

强大起升力矩 过载保护

Powerful lifting torque Overload protection



混凝土泵车系列 Concrete pumps

融世界尖端泵送技术 成就泵车制造经典

Melt the world cutting-edge pumping technology Pump truck manufacture classic



预制件运输车

Pc transport vehicle

专为预制件运输设计 模块化设计, 安装便捷

Designed for casting transport Modular design, installation is convenient

PC 配套装备

PC supporting equipment



防护性高 数据查询方便 一键控制起降、回转 就位准确

High protective Data query is convenient A key control landing, rotary In place accurately



AGV 自行走小车 Agv self walking truck

智能设定行走 方便安全迅速

Smart set to walk Convenient security quickly

三一 PC 建筑工法能力

SANY PC construction method

通过 SPCI 信息化系统,将生产、运输、装配纳入云端服务及大数据平台, 提供 PC 建筑全流程的信息化解决方案。

To provide solutions for the whole process of PC construction through SPCI information system, integrating the production, transportation, assembly with cloud service and big data platform.



SPCI 平台

SPCI platform

通过信息化平台实现全流程开发、 数字化交付,提供大数据运营

Through information platform to realize the whole process of development, digital delivery, to provide big data operations



PC 生产制造

PC manufacturing

提供 PC 超级工厂成熟的运营体系确保品质与效率的完美交付

PC super factory mature operation system ensure the product quality and fast efficiency



PC 运输及装配

PC transportation and assembly

自主研发出专业构件运输车 提供装配化施工技术和服务

Independent research and development of PC transporter to provide assembly construction technologies and services



PC 专业培训

PC professional training

通过三一工学院进行专业人员培训 并建立装配施工虚拟仿真训练系统

SANY Engineering School provides training to customers and build simulated training system of assembly construction.

多类型 PC 建材及各类部件

All types of PC materials and parts

外挂墙板 out-hung panels



品质改变世界 | QUALITY CHANGES THE WORLD

管廊 Alure

预制楼梯 prefabricated stairs

智能集成工业一体化内装

We provide smart and integrated decoration solutions.

从设计、生产到施工,建筑智能集成贯穿其中。集成系统包括太阳能光伏、交换式新风系统、整体厨房卫浴、地板门窗整体安装、烟雾报警、火灾探测器、中央空调等,并可通过 Internet 与社区及社会紧密联接

Construction intelligent integration runs through from design, production to construction. Integration system includes solar photovoltaic, switched primary air system, integrated sanitary/kitchen, floor/doors/windows integrated installation, smoke alarm, fire detector, central air-conditioning, etc. It contacts with community and society closely through internet.





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Floor/Doors/Windows Integrated Installation

地板门窗整体安装

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工业物联网技术 Industrial Internet of Things

IRCOTECH 树根互联 最具价值的工业物联网云平台

IROOTECH, the most valuable cloud platform of industrial internet of things







IROOTECH Technology Co. Ltd. Is built by SANY Internet of Things business team, is an independent open third party Internet high-tech enterprises, aiming to build the industrial Internet platform to create values and integrated solutions for the customers. the mission is to promote intelligent manufacturing through the internet of things.

HAS QUALITY CHANGES THE WORLD 43 44 SANY CONSTRUCTION INDUSTRY

致力于将卓越的 **装备制造**技术和**工业物联网**技术

运用到**建筑工业化**领域

SANY Is committed to applying leading manufacturing technology and Industrial IOT Technology into the industrialization of construction.



规划建设各类工业园区

Plan and build different industrial parks







合作模式

SCI PC+

PC 建筑专家 + 装备制造品牌 + 优秀的**投资开发和建筑商 +** 地方**政府 +** 建筑开发**基金 + 金融** 组建本地投资企业,承接本地工程和建筑开发,发展本地建筑工业化体系

PC expert+ leading construction machinery manufacturer+ excellent investor and contractor+ local government+ construction development fund+ finance

Find local investors, undertake development of local construction projects, develop local construction industry system

三项核心能力

Three core competences

设计装备工法

Engineering



寻找合作伙伴

Find partners

建筑商及开发商

Contractors and developers





协助当地政府 Assist local governments

发展本地建筑工业化
Develop local construction industrialization



实现改造传统建筑

Transform traditional architecture

发展本地建筑工业化体系 建设美好智慧城市

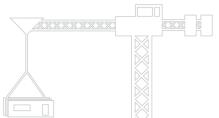
Develop local construction industry system to build a better city

共同携手

迈向建筑工业新时代

Towards the new age of construction industry

GREEN DREAM





配合政府

Cooperate with the government

发展绿色建筑,带动产业升级 管廊铺设,保障房开发,新城镇建设

Develop green building to promote industry upgrading, Support construction of pipe gallery, social housing and new towns.



携手开发商

Cooperate with developers

实现开发效益最大化 提升建筑质量 加快资金周转

Maximize profits Improve construction quality speed up capital turnover



协助建筑商

Support To Constructer

降低成本,提升效益 提供装备,提供技术

Reduce cost, improve profitability.

Provide PC equipment and technology



服务消费者

Serve the customers

提供高品质、绿色建筑带来物联网时代新服务

Provides high quality, green buildings New service in the age of Internet of things









装备 共享装备技术,提升品质与效率 工法 共享技术与管理,打造业内一流装配能力 **渠道** 共享信息与资源,全面覆盖目标市场 Share equipment technology, improve quality and efficiency METHOD
Share technology and management, build the first-class assembly capability in the industry CHANNEL
Share information and resource, fully cover the target markets



品质改变世界 | QUALITY CHANGES THE WORLD 55 | 56 www.sanygroup.com SANY CONSTRUCTION INDUSTRY