

品质改变世界
QUALITY CHANGES THE WORLD

SANY®



三一平地机
SANY MOTOR GRADERS



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代理商信息
Agent informatio

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SANY®



扫码得电子版



三一云二维码

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创新技术 引领行业

Innovative And Industry
Leading Technologies



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三一路面机械

三一重工股份有限公司创建于 1994 年。自成立以来，公司以年均 50% 以上速度增长。目前已经发展为中国最大、全球前三的工程机械制造商，也是全球最大的混凝土机械制造商、国内最大最先进的成套道路施工设备供应商之一。

三一路面机械立足高端，是国内最大、最先进的成套道路施工设备供应商之一，主导产品涵盖摊铺机、压路机、平地机、铣刨机、沥青搅拌站五大系列产品，市场销售遍布欧美、非洲、东南亚、澳大利亚、俄罗斯等多个国家和地区。其中，全液压压路机、沥青站、摊铺机市场占有率居国内首位，摊铺机连续多年蝉联国内销量冠军。

近年来，三一路机更是开启数字化征程，成功研发全球首套无人驾驶摊铺压实机群，领先全球路机无人智能的发展，多次创下全球记录：全球“规模最大”的路机无人机群、全球首次“已营运”高速公路无人智能化机群施工、全球首次水稳面层无人智能化机群施工 ... 三一无人驾驶机群正应用于不同工况的各大工程，并将引领中国公路建设快速迈向数字化施工新时代！

SANY ROAD MACHINERY

SANY Industries Co., Ltd. was founded in 1994. When the company was established, it can be seen that the company has grown at an average annual rate of over 50%. Currently, China's largest and the world's top three construction machinery manufacturers are the world's largest concrete machinery manufacturers, which includes one of the largest and most advanced suppliers of complete sets of road construction equipment in China.

SANY Machinery has many features, which include being based on the high-end and being one of the largest and most advanced suppliers of complete sets of road construction equipment in China. Its leading products cover five series of products: pavers, rollers, graders, milling machines and asphalt mixing plants. In the market, sales are spread over many countries and regions such as Europe, America, Africa, Southeast Asia, Australia and Russia. The market share of hydraulic rollers, asphalt plants and pavers ranks first in China. Among them, pavers have been the domestic sales champion for many years in a row.

In recent years, SANY Machine is to open the digital journey, the world's first unmanned paving and compaction machine group was developed, the global road machine unmanned intelligent development, repeatedly set a global record can be led: the world's "largest" road machine unmanned fleet, the world's first "has operated The world's first "operational" unmanned intelligent fleet of highway machines. In the world, it is the first water-stable surface layer unmanned intelligent aircraft group construction... For SANY driverless fleet, which is being applied to major projects in different working conditions, is being led in the process of China's highway construction rapidly moving towards a new era of digital construction!

STG170/190/210/230C-8S 平地机

STG170/190/210/230C-8S MOTOR GRADER

高效 精准 可靠 舒适 便捷

Efficient, Accurate, Reliable, Comfortable, Convenient

- **高效**：变功率重载发动机 + 直流式进气系统
- **精准**：负载敏感作业系统 + 新型操控机构
- **可靠**：滚盘式作业装置 + 回转支承后桥 + 碟刹
- **舒适**：ROPS/FOPS 驾驶室 + 轿车级内饰
- **便捷**：故障自诊断系统 + 智能保养提示



Efficient: variable power heavy-duty engine + DC intake system
Accurate: load-sensing operating system + new control mechanism
Reliable: roller type operating device and slewing bearing rear axle
Comfortable: car-level driving experience
Convenient: fault self-diagnosis and intelligent maintenance reminder

STG170/190/210/230C-8S 平地机

STG170/190/210/230C-8S MOTOR GRADER

动力强劲，高效省油

- 潍柴大功率重载发动机，动力强劲。（170/190/210C8S）
- 三一道依茨 245 马力重载发动机，胜任矿山高强度施工。（230C8S）
- 康明斯 II 阶段发动机，油品适应性强，可靠耐用。（190/210 出口版）
- 发动机变功率节能技术，根据工况匹配不同的功率曲线，使机器始终工作在最低油耗区。
- 直流式进气系统，与传统空滤相比过滤效率提升 10 倍，滤芯寿命提高 4 ~ 8 倍，平均节油 5 ~ 8%，有效防止发动机早磨。



东风康明斯国 II



潍柴国 III



三一道依茨国 III



新一代直流式进气系统

最优结构工作装置

- 铲刀无需侧翻可轻松上下 1.1 米板车。
- 铲刀左右伸出距离业内最大，作业范围广。
- 全密封回转支承转盘，回转精度高，不用频繁打黄油，无易损件，使用成本低，寿命大于 10000h。

WORKING DEVICE WITH OPTIMAL STRUCTURE

- The blade can easily get on and off 1.1 meters pallet truck without rolling over.
- The length of left and right extension of the blade is the longest in the industry, which ensures a wide operation range.
- Fully enclosed slewing bearing circle ensures high slewing accuracy. No need for frequent lubrication, and no wearing parts save costs. Its service life is more than 10,000 hours.



上下 1.1 米板车



伸出距离业内最大



回转支承工作装置

新一代操控系统

- 负载敏感液压系统，毫米级操控精度，油缸动作快，作业效率高。
- 新一代操控机构，手柄有效行程占比 60%，动作精准、操作省力，粗活细活样样精通。
- 全新造型操控台及操控边箱，高端大气，操控台及显示屏角度无级调节。

NEW-GENERATION CONTROL SYSTEM

- Load-sensing operating system with millimeter-level control accuracy guarantees fast cylinder movement and high work efficiency.
- The new generation of control mechanism, the handle effective stroke accounts for 60%. All kinds of works can be easily handled with accurate action and labor-saving operation.
- Newly shaped operator station and screed console show high-appearance, the operator station and display screen are infinitely adjustable in angle.



新一代操控机构



全新造型操控边箱

回转支承后桥再升级

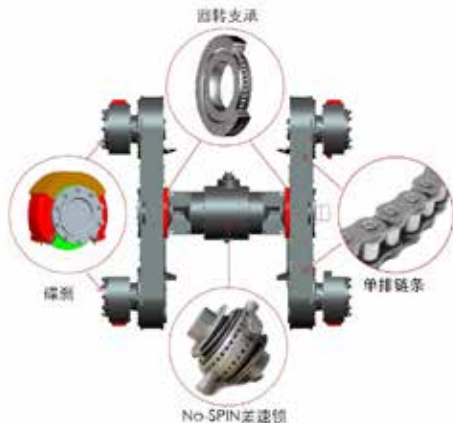
- 回转支承后桥结构再次升级，无易损件，维护方便，寿命大于 10000h。
- 重型链条 + 整体式轮边 + 碟刹，安全可靠。
- 170S 平地机专用整体式桥壳 + 重型双排滚子链，可靠耐用。

UPGRADED SLEWING BEARING REAR AXLE

- The structure of the slewing bearing rear axle is upgraded again with no wearing parts, serviceability, and service life more than 10000h.
- Heavy chain + integral wheel rim+ disc brake ensure safety and reliability.
- Special integral axle housing for 170S motor grader + heavy duplex roller chain ensure reliability and durability.



170C-8S 后桥



190/210/230C-8S 后桥

保养方便快捷

- SYCD 彩色液晶显示屏，多参数多语言显示。
- 故障信息直接显示、排故指南、定时保养自动提示。
- 大开度发动机舱门，各种滤芯集中布置，加大后桥变速箱维修空间，日常保养方便快捷。



大开度发动机舱门及滤芯集中布置

SERVICEABILITY

- SYCD color LCD display show multi-parameter in multi-language .
- Visual display of fault information, troubleshooting guide, and automatic prompts for regular maintenance.
- Wide-opening door of the engine compartment, centralized arrangement of various filter elements, enlarged maintenance space of the rear axle gearbox all make the daily maintenance a convenient and quick thing .



SYCD 彩色液晶屏



故障诊断及排故指南



故障保养内容提示



保养历史查询

安全舒适的驾乘体验

- ROPS/FOPS 安全驾驶室，整体前挡玻璃，左右推窗。
- 冷暖空调、风扇、带头枕机械悬浮式座椅。
- 遮阳板、遮阳帘、收音机、音响、茶杯座等一应俱全。
- 可放置手机、钥匙、香烟的多功能储物盒，USB 手机快充。

SAFE AND COMFORTABLE DRIVING EXPERIENCE

- ROPS/FOPS safety cab with integral front windshield, left and right push windows.
- Air conditioning, fan, mechanical suspension seat with headrest.
- Sun visors, sunshade, radio, audio, teacup holders, etc. are all available.
- Multifunctional storage box for cell phones, keys, cigarettes, USB cell phone fast charging.



C8S 驾驶室



C8S 驾驶室内饰及配置



带头枕的机械悬浮式座椅



技术参数

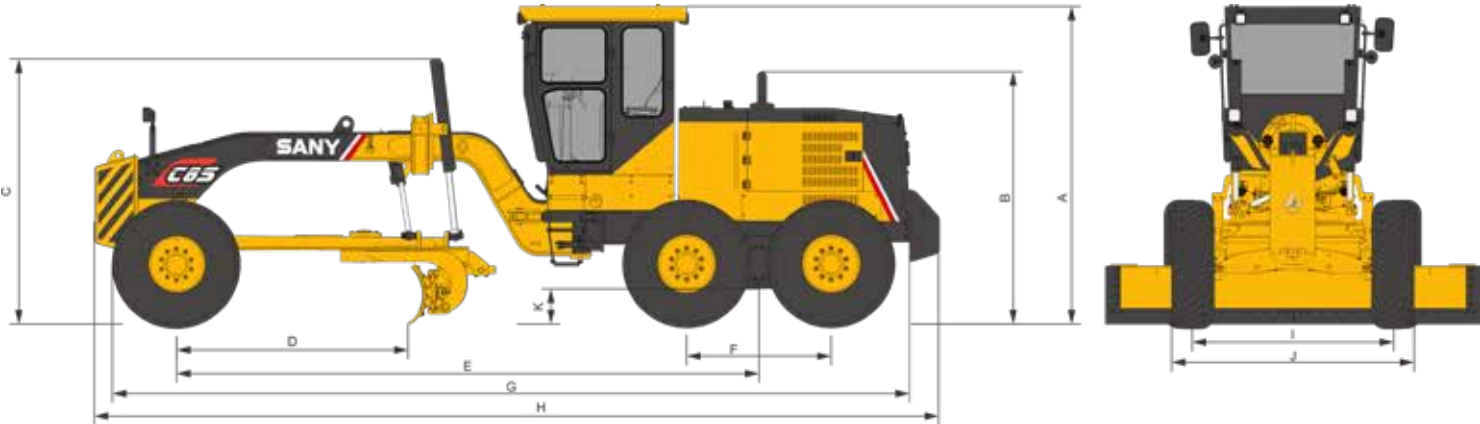
TECHNICAL PARAMETER

产品型号		Product Type	STG170C-8S	STG190C-8S	STG190C-8S(出口)	STG210C-8S	STG210C-8S(出口)	STG230C-8S	
基本参数	发动机型号	Engine model	潍柴 (国Ⅲ) WP6G180E330	潍柴 (国Ⅲ) WP6G200E330	东风康明斯 (国Ⅱ) 6BTAA5.9-C190	潍柴 (国Ⅲ) WP6G210E330	东风康明斯 (国Ⅱ) 6CTAA8.3-C215	三一道依茨 (国Ⅲ) D07S3-245E0	
	额定功率 (kW) / 转速 (rpm)	Rated power (kW)/speed (rpm)	132.5/2200	147/2200	142/2000	154/2200	160/2200	180/2200	
	最大输出扭矩 (N.m) / 转速 (rpm)	Max. output torque (N.m)/speed (rpm)	750/1400~1700	900/1400 ~ 1600	800/1300 ~ 1500	900/1400 ~ 1600	980/1400 ~ 1600	1024/1300 ~ 1600	
	标配外形尺寸 (mm)	Overall dimensions of standard machine (with Jingda rear axle)	8920 × 2740 × 3348	9265 × 2740 × 3348	9265 × 2740 × 3348	9315 × 2740 × 3348	9315 × 2740 × 3348	9315 × 2740 × 3348	
	标配工作质量 (kg)	Operating weight of standard machine (with Jingda rear axle)	14600	15800	15600	16200	16000	16600	
	轮胎规格 / 层级	Tire spec.(PR)	17.5-25 (12PR)	17.5-25 (12PR)	17.5-25 (12PR)	17.5-25 (12PR)	17.5-25 (12PR)	17.5-25 (12PR)	
性能参数	前进车速 (km/h)	Forward speed (km/h)	5/8/13/20/30/43	6/10/13/21/27/42	5/9/12/19/24/38	6/10/13/21/27/42	6/10/13/21/27/42	6/10/13/21/27/42	
	后退车速 (km/h)	Reverse speed (km/h)	5/13/30	6/13/27	5/12/24	6/13/27	6/13/27	6/13/27	
	作业液压系统最大压力 (MPa)	Max. pressure of operating hydraulic system (Mpa)	18	18	18	18	18	18	
	变速箱换挡系统压力 (MPa)	Transmission control pressure for gearshift (Mpa)	1.3 ~ 1.7(杭齿)	1.3 ~ 1.7(杭齿)	1.6 ~ 1.8 (ZF)	1.6 ~ 1.8 (ZF)	1.6 ~ 1.8 (ZF)	1.6 ~ 1.8 (ZF)	
工作装置参数	铰接最大转向角度 (°)	Max. steering angle of articulation (°)	± 27	± 27	± 27	± 27	± 27	± 27	
	前轮最大转向角 (°)	Max. steering angle of front wheel (°)	± 45	± 45	± 45	± 45	± 45	± 45	
	前轮最大倾斜角 (°)	Max. tilt angle of front wheel (°)	± 17	± 17	± 17	± 17	± 17	± 17	
	前桥最大摆动角 (°)	Max.swing angle of front axle (°)	± 16	± 16	± 16	± 16	± 16	± 16	
	平衡箱最大摆动角 (°)	Max.swing angle of tandem drive case (°)	± 15	± 15	± 15	± 15	± 15	± 15	
	后桥离地高度 (mm)	Ground clearance at rear axle (mm)	410	410	410	410	410	410	
	铲刀运 动参数 Blade	长度 × 弦高 (mm)	Blade length × arc radius (mm)	3965 × 620	3965 × 620	3660 × 620	3965 × 620	3660 × 620	3965 × 620
		最大提升高度 (mm)	Max. lift above ground (mm)	480	480	480	480	480	480
		最大铲土深度 (mm)	Max. cutting depth (mm)	630	630	630	630	630	630
		最大倾斜角度 (°)	Max. tilt angle (°)	± 90	± 90	± 90	± 90	± 90	± 90
		切削角范围 (°)	Blade tip range (°)	25 ~ 75	25 ~ 75	25 ~ 75	25 ~ 75	25 ~ 75	25 ~ 75
		回转角 (°)	Rotation angle (°)	360	360	360	360	360	360
	松土器 参数 Scarifier	最大入土深度 (mm)	Max. depth into earth (°)	/	462	462	462	462	462
		最大提升高度 (mm)	Max. lift above ground (°)	/	480	480	480	480	480
		最大离去角度 (°)	Max. angle of departure (°)	/	14	14	14	14	14
		最大工作宽度 (mm)	Max.operating width (mm)	/	2180	2180	2180	2180	2180
	推土板 参数 Push plate	最大入土深度 (mm)	Max. depth into earth (°)	/	220	220	220	220	220
		最大提升高度 (mm)	Max. lift above ground (°)	/	625	625	625	625	625
		最大入土角 (°)	Max. angle into earth (°)	/	63	63	63	63	63
		最大工作宽度 (mm)	Max.operating width (mm)	/	2740	2740	2740	2740	2740
备注： 1. 标准操作质量包括标准配置的 17.5-25 轮胎，满载燃油、冷却液、润滑剂以及 75kg 操作手。 2. 标配配置可满足 -10℃ 以上的环境使用，加装进气预热系统可满足 -20℃ 以上的环境使用， 加装进气预热系统 + 低温蓄电池，可满足 -35℃ 以上环境使用									

三一平地机加 / 选配表

型号 / 配置		STG170C-8S	STG190C-8S	STG190C-8S(出口)	STG210C-8S	STG210C-8S(出口)	STG230C-8S
发动机	标配	潍柴 (国 III)	潍柴 (国 III)	东风康明斯 (国 II)	潍柴 (国 III)	东风康明斯 (国 II)	三一道依茨 (国 III)
变速箱	标配	杭齿	杭齿	ZF	ZF	ZF	ZF
	选配	ZF	ZF	/	/	/	/
后桥	标配	回转支承 + 碟刹	回转支承 + 碟刹	回转支承 + 碟刹	回转支承 + 碟刹	回转支承 + 碟刹	回转支承 + 碟刹
铲刀	标配	13ft(3965mm)	13ft(3965mm)	12ft(3660mm)	13ft(3965mm)	12ft(3660mm)	13ft(3965mm)
	选配	12ft(3660mm)	14ft(4270mm)	14ft(4270mm)	14ft(4270mm)	14ft(4270mm)	14ft(4270mm)
摆架	标配	手动插销	手动插销	电液插销	电液插销	电液插销	电液插销
	选配	电液插销	电液插销	/	/	/	/
蜗轮箱	标配	普通结构	普通结构	过载保护结构	过载保护结构	过载保护结构	过载保护结构
	选配	/	过载保护结构	/	/	/	/
高原型	标配	海拔高度低于 2500m 可正常使用					
	加配	海拔高度为 2500m < h ≤ 5000m，需加装高原配置					
高寒型	标配	环境温度为 -10℃ ~ 40℃可正常使用					
	加配 I	环境温度为 -10℃ ~ -20℃，需加装进气预热系统					
	加配 II	环境温度为 -20℃ ~ -35℃，在加配 I 基础上增加冷却液预热系统 + 高寒型蓄电池（订货周期为 60 天）					
倒车影像	加配	可选	可选	可选	可选	可选	可选
警示灯	加配	可选	可选	可选	可选	可选	可选
前推土板	加配	/	可选	可选	可选	可选	可选
后松土器	加配	/	可选	可选	可选	可选	可选

尺寸代号 Dimension Code	名称 Name	STG170C-8S (国 III)	STG190C-8S (国 III)	STG190C-8S (国 II)	STG210C-8S (国 III)	STG210C-8S (国 II)	STG230C-8S (国 III)
A	驾驶室顶部高度 (mm) Top height of cab (mm)	3348	3348	3348	3348	3348	3348
B	排气管高度 (mm) Exhaust pipe height (mm)	2717	2717	2946	2717	3165	3175
C	铲刀提升油缸顶部高度 (mm) Height of top of blade lifting cylinder (mm)	2795	2795	2795	2795	2795	2795
D	前桥至铲刀壁间距离 (mm) Distance between front axle and blade wall (mm)	2568	2568	2568	2568	2568	2568
E	前后桥轴距 (mm) Wheelbase of front and rear axles (mm)	6150	6310	6310	6310	6310	6310
F	中后轮轴距 (mm) Wheelbase of middle and rear wheels (mm)	1527	1538	1538	1538	1538	1538
G	前轮至机器后端长度 (mm) Length from the front wheel to rear end of machine (mm)	8420	8775	8775	8775	8775	8775
H	全长 (mm) 标配 / 前推后松 Full length (mm) standard configuration /front moldboard and forward and rear ripper	8920	9265/11300	9265/11300	9315/11300	9315/11300	9315/11300
I	后轮距 (mm) Rear wheelbase (mm)	2280	2280	2280	2280	2280	2280
J	前轮外侧宽度 (mm) Outside width of front wheel (mm)	2580	2580	2580	2580	2580	2580
K	后桥离地间隙 (mm) Ground clearance of rear axle (mm)	410	410	410	410	410	410



LEAN MANUFACTURING

精益制造

路机人挥洒汗水，精益求精
不断刷新中国制造的更高水平
更多的“第一”背后
是路机人改写中国制造至中国创造的实干之心

Personnel in the Company make every efforts to constantly strive for perfection and continuously achieve a higher Chinese manufacturing level;
Behind various reputable “No.1” achievements is their ambition to realize Chinese creation from Chinese manufacturing.



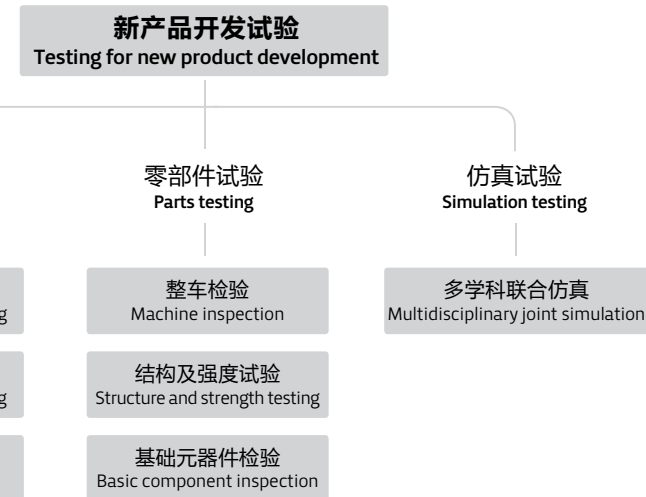
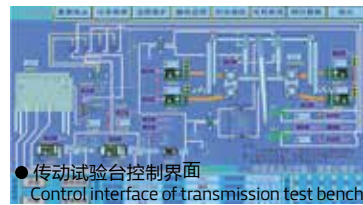
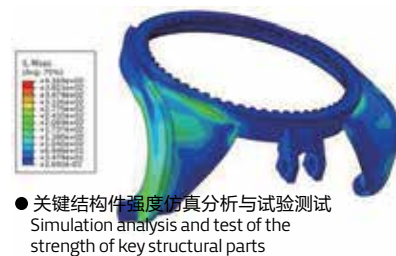
精心设计、优化布局、技术革新、注重品控，实现路机产品全面流水化制造
生产管理信息化（MES 系统）、全自动焊接机器人、AGV 小车、自动化立体仓库……
不断开展自动化、智能化的创新研究，“新工艺、新设备、新材料”的广泛应用，极尽苛刻的质量品控，使得每一件路机产品至臻完美，面对各种复杂作业环境尽显卓越性能

三一人执着地闯出一条崭新的科技发展之路，为中国工程机械行业树立了全新的标杆
With meticulous design, optimal layout, technical innovation and emphasis on quality, the product can realize the full automatic manufacturing process of road machinery.
Production management information (MES system), full automatic welding robot, AGV trolley and automatic 3D warehouse...
With a strong focus on the innovation research of automation and intelligence constantly, the Company has applied “new technology, new equipment and new materials” widely and is always strictly on product quality to make all the road machine products perfect. The machines can show their superior performance under all different complicated operating environments.

All the staffs in Sany are brave to make scientific development, setting a typical example for Chinese engineering machinery industry.

TEST SYSTEM

试验体系



研发试验体系

为打造一个国际领先的路面机械研发平台，三一路机依托工程机械远程监控服务与故障诊断实验室、液压实验室、机电液控与仿真实验室、柴油机实验室、设备疲劳（寿命）实验室、焊接实验室、强度（应力）实验室、耐磨材料实验室、汽车底盘全自动检测线等 9 大试验检测中心及 58 个企业级实验室，形成跨体系跨部门产品开发流程；

通过“试验基础设施、新产品开发试验、客户体验平台、工况模拟数据库”建设，建立了整车试验、零部件试验和仿真试验三级试验体系，目前已具备沥青站、摊铺机、平地机、压路机、铣刨机的开发及相关核心技术的研究、试验能力，全面提升研发核心竞争力。

R & D AND TEST SYSTEM

In order to create a world leading R & D platform for road machinery, Sany Road Machinery Co., Ltd. has formed a multi-system-and-department product development process in virtue of its 9 test and inspection centers such as remote monitoring service and fault diagnosis lab for engineering machinery, hydraulic lab, electromechanical hydraulic control and simulation lab, diesel lab, equipment fatigue (service life) lab, welding lab, strength (stress) lab, wearing resistant materials lab, auto chassis full automatic detection line and 58 enterprise labs.

By constructing “test infrastructure, new product development test, customer experience platform and working condition simulation database”, Sany has established a 3-level system including whole vehicle test, parts test and simulation test; it has owned the development and relevant core technology research and test capacity of asphalt batching plant, paver, grader, road roller and milling machine.



CONSTRUCTION CASES 施工案例



地点：新疆
时间：2017 年 10 月
项目：新疆线阿喀段施工

Construction Cases
Location: Xinjiang
Time: October, 2017
Project: Xinjiang Ake section construction site



地点：西藏
时间：2016 年 8 月
项目：STG190C-8 平地机在海拔 5000 米的西藏阿里施工

Construction Cases
Location: Tibet
Time: August, 2016
Project: STG190C-8 working at 5000m altitude construction site in Ali Tibet construction site

地点：北京
时间：2018 年 4 月
项目：北京环球主题公园土方填垫

Location: Beijing
Date: April, 2018
Project: Filling earthwork at Universal Theme Park in Beijing



地点：湖南长沙
时间：2018 年 1 月
项目：平地机长沙市区破冰除雪

Construction Cases
Location: Changsha Hunan
Time: January, 2018
Project: Motor grader clear snow and ice at Changsha city



三一路机 “123” 价值服务承诺

Road Machinery Product "123" Value Service Commitment



购买三一路机设备免费赠送人工服务费

- ◆ 路机产品按《操作保养手册》保养节点且使用三一纯正配件，免收人工服务费。



黑色路面产品关重部件保修期为 2 年或 2000 小时（先到为准）

- ◆ 产品范围：摊铺机、双钢轮压路机、轮胎压路机、沥青搅拌站。



补偿一

- ◆ 产品质量问题引起停机故障 48 小时内未修复，优先提供备用机、无法提供备用机的按标准补偿；

补偿二

- ◆ 购买常用件 24 小时内未发货按标准补偿；

补偿三

- ◆ 压路机、平地机常用件高于市场价、按差价的 2 倍补偿。

以上条款的最终解释权归三一重工所有

售后服务热线
After-sale services
hotline

4008 87 8318

咨询投诉电话
Consulting and
complaint telephone

4008 87 9318



Clients who purchased SANY Road Machinery Equipments will be free of labor service fee

- ◆ Road machinery products shall be free of labor maintenance fee in accordance with the requirements of the Operation and Maintenance Manual for maintenance time nodes and using SANY certified accessories.

The warranty period for key parts of black Road Machinery Product is 2 years or 2,000 hours (whichever ends first)

- ◆ Product scope: Paver, Double Steel Roller, Tyre Roller, Asphalt Batching Plant.

Compensation I

- ◆ If the machine failure caused by product quality problems has not been repaired within 48 hours, clients should be provided the standby machine priority, and the situation where the standby machine cannot be used should be compensated according to the compensation standard.

Compensation II

- ◆ Clients will be compensated for non-delivery of common parts within 24 hours after purchase according to the compensation standard;

Compensation III

- ◆ If the price of common parts of Road Roller and Grader is higher than market price, clients will be compensated by 2 times the price difference.

The final interpretation of the above terms is owned by SANY Heavy Industry

