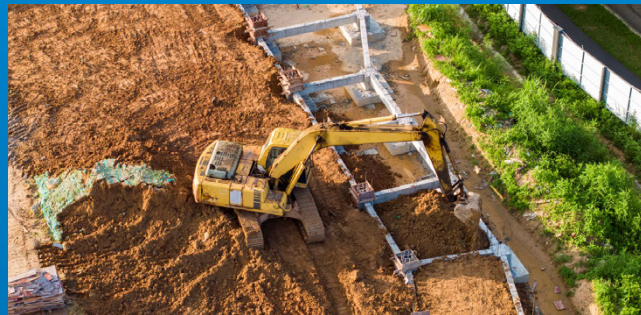
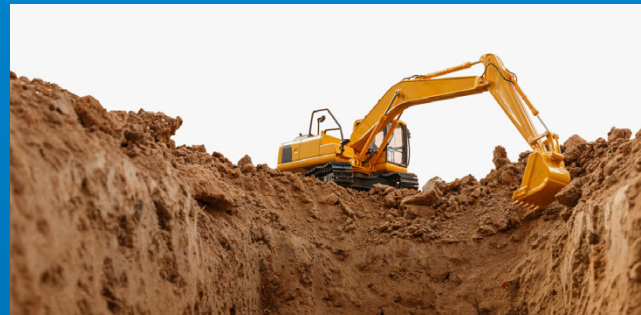


Application Scenarios



Foundation Construction



Drainage Ditches



Pipeline Engineering



Farmland Grading



Highway Construction



Channel Dredging

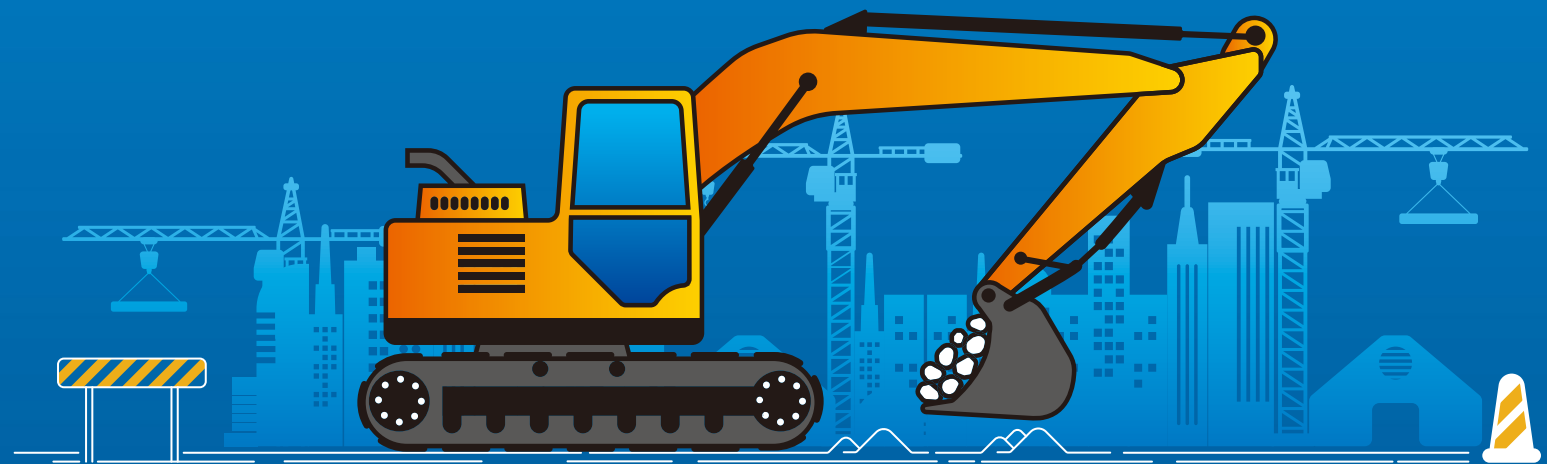


Port and Wharf Construction



Pile Driving

SOUTH Intelligent 3D Excavator Guidance System EGS01



Precise Guidance



Multi-Technology Integration



User-Friendly Operation



Improved Efficiency and Reduced Costs



Safe and Reliable



Industrial Three Proofings



Flexible Expansion

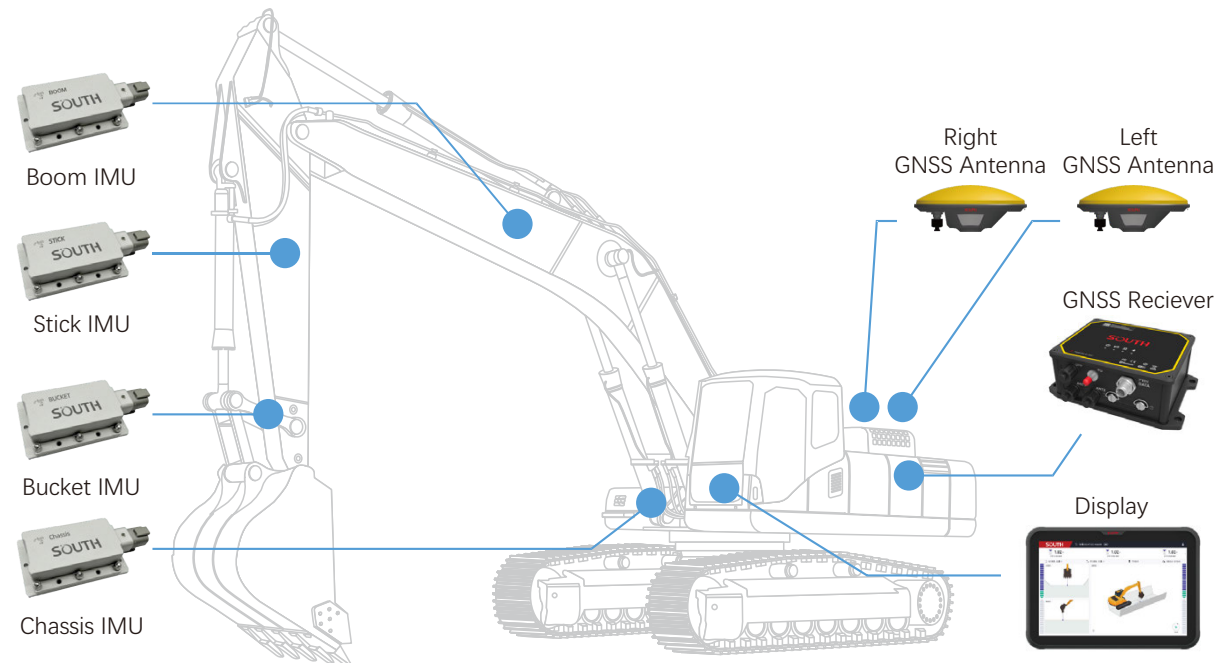


Extensive Application Scenarios

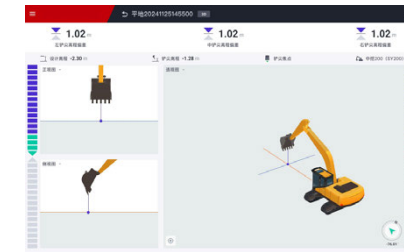


Application Scenarios

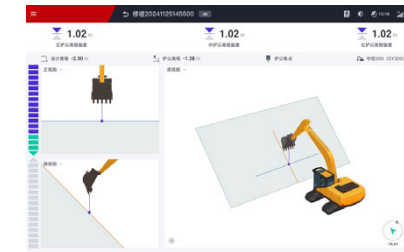
South Intelligent 3D Excavator Guidance System is based on GNSS high-precision positioning and tilt sensor fusion technology. By integrating surveying and engineering design data, the system delivers real-time operation guidance against design surfaces. The bucket tip's horizontal and elevation accuracy can reach ± 3 cm, optimizing construction quality, improving efficiency, and significantly boosting productivity.



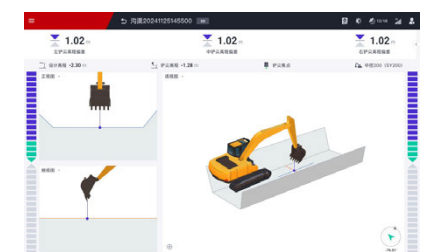
System Functions



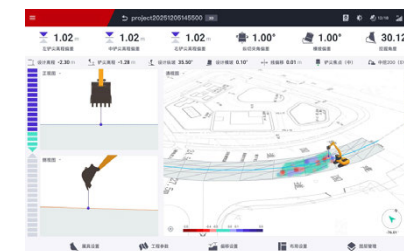
3D Grading



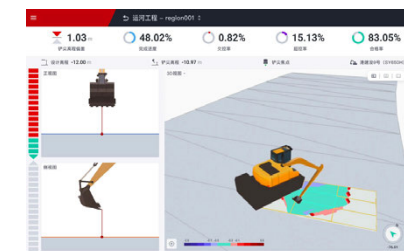
3D Slope Finishing



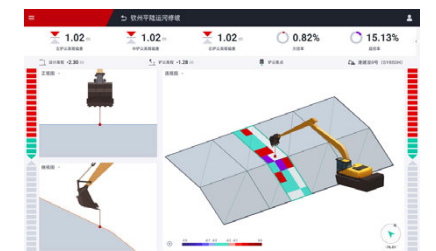
3D Trenching



3D Advanced Projects



3D Dredging - cleaning silt



3D Dredging - underwater slope finishing

System Components



MC10 Display-Control Panel

Industrial vehicle-mounted terminal with GNSS positioning and orientation, Android 14, 10.1-inch touch screen, IP68 protection, stable and reliable, durable magnesium-aluminum alloy casing.



MG02 Receiver

High-precision positioning and orientation receiver, powerful GNSS solution capability, high precision, integrated, three-proof design, meeting diverse needs of construction machinery control.



Super Base Station

Equipped with the latest high-precision chip, supports all-constellation and all-frequency tracking, 50+ satellites instant lock, Farlink radio technology, 15 km transmission, dual power supply with over 15 hours endurance.



IMU Sensor

Industrial-grade IMU-based dynamic tilt sensor, designed for construction machinery and intelligent robots. Features anti-interference dynamic tilt algorithm, stable under harsh conditions, compact and versatile.

System Features and Values



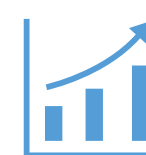
Precise Guidance

Horizontal and elevation accuracy within ± 3 cm. Reduces need for repeated checks and auxiliary measurement, workload reduced by 90%.



Cost Savings

Cuts construction cycle, reduces fuel and labor costs, saves 30% overall.



Improve Efficiency

Simplified workflow, faster excavation, zero rework —up to 40% efficiency improvement.



Enhance Safety

No need for lime marking or staking, significantly reducing auxiliary labor requirements. Avoid potential underground collisions and ensure construction safety.