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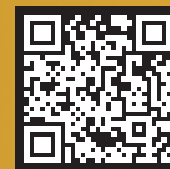
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Website



Facebook



Youtube



Instagram



Driving Precision for The World

PRODUCT CATALOG

PRODUCT CATALOG



Driving Precision for the World

ABOUT NST

NST is a technology enterprise dedicated to agricultural innovation. With the core mission of "Driving Precision For World", we deeply integrate automation, digitalization and green energy technologies to provide innovative solutions for addressing challenges such as labor shortages and skill transmission gaps faced by agriculture in Japan and globally.

Innovative Breakthrough 2020

Launched the N100 laser land leveling system (Centimeter level accuracy). Launched the N200 GPS land leveling system (based on GNSS).

Technology Iteration 2022

Launched the agricultural robot platform NARIS. Upgraded the second-generation auto steering system N500 (complex scene adaptation).

The Future Has Arrived 2024

Released the third-generation auto steering system (full software upgrade, ISOBUS standard). Entered the North American market (Canadian Authorized Service Center).

Innovative Breakthrough 2026

In 2026, NST launched the KP80 Intelligent Lawn Mower Robot and the KP50 multi-functional MOWCART.

2019 Initial Beginning

Founded in Chiba, Japan, the startup team consists of a group of Japanese agricultural experts, data scientists and engineers.

2021 Manufacturing Upgrade

The first generation of autonomous driving system N500 was released. The manufacturing base in Tianjin, China was completed. The agricultural information platform NAIS was launched.

2023 Becoming Influential

Debut at Japan International Agricultural Machinery Exhibition.

2025 International Exhibitions

In 2025, NST established its China Tianjin Marketing Center. It made its debut at Agritechnica in Hanover, Germany.

INTELLIGENT MANUFACTURING BASE

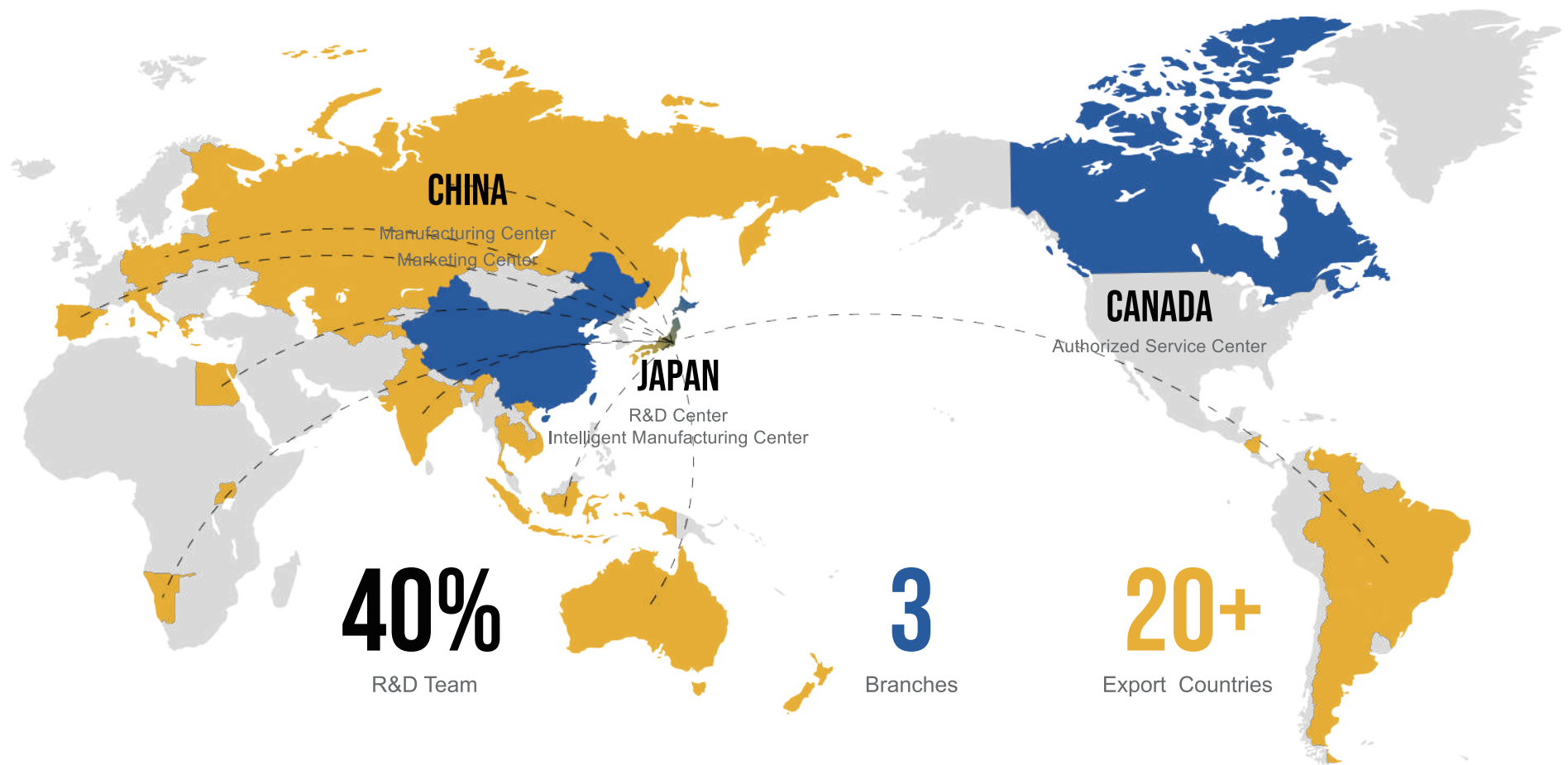
The production base is located in the core area of China's high-end manufacturing industry. The NST Manufacturing Base, based on the blueprint of Industry 4.0, has established an intelligent production matrix covering the entire life cycle of electronic equipment.



INDUSTRIAL AESTHETICS PURSUIT

With an impressive daily production capacity of 100 units and an ultra-low defect rate of 0.2%, we provide the "zero-defect" hardware foundation for global agricultural automation equipment, ensuring that each auto steer system heading to the fields embodies the ultimate pursuit of industrial aesthetics.







Driving Precision for the World

N600 Series

GNSS Auto Steering System

As our flagship Auto Steering System, N600 brings centimeter-level precision to everyday field work. Powered by GNSS-RTK navigation accurate to within 2.5 cm, it automates core operations — from soil preparation and sowing to spraying and harvesting — through intelligent path optimization, multi-machine coordination, and adaptive terrain compensation that keeps you working day and night. Built with IP67 components and designed for universal tractor compatibility, helps farmers cut fuel and fertilizer costs by up to 30%, reduce human error by up to 80%, and free their hands for up to 90% of the workday — making precision agriculture the everyday standard, not the exception.



2.5cm
Accuracy

High-precision GNSS



20%
Productivity

Maximize the Land Utilization



24/7
Operation

No Visibility Restrictions



30%
Cost

Less Fuel and Fertilizer



90%
Labor Fatigue

Free Your Hands



80%
Human Errors

Farm & Plots Management





0.1-26km/h



U-Turn



ISOBUS



Broad compatibility



PPP



Multiple Line
Options



Terrain
Compensation



Fast
Installation



Farm
Management



Effortless Data
Transfer

Two Models. One Goal.

Choose the Right Positioning for Your Field

N600

- Centimeter-level accuracy (≈2.5 cm with RTK)
- Requires RTK correction from local base station or CORS network
- Fast with available RTK corrections
- Requires RTK network coverage in each working area

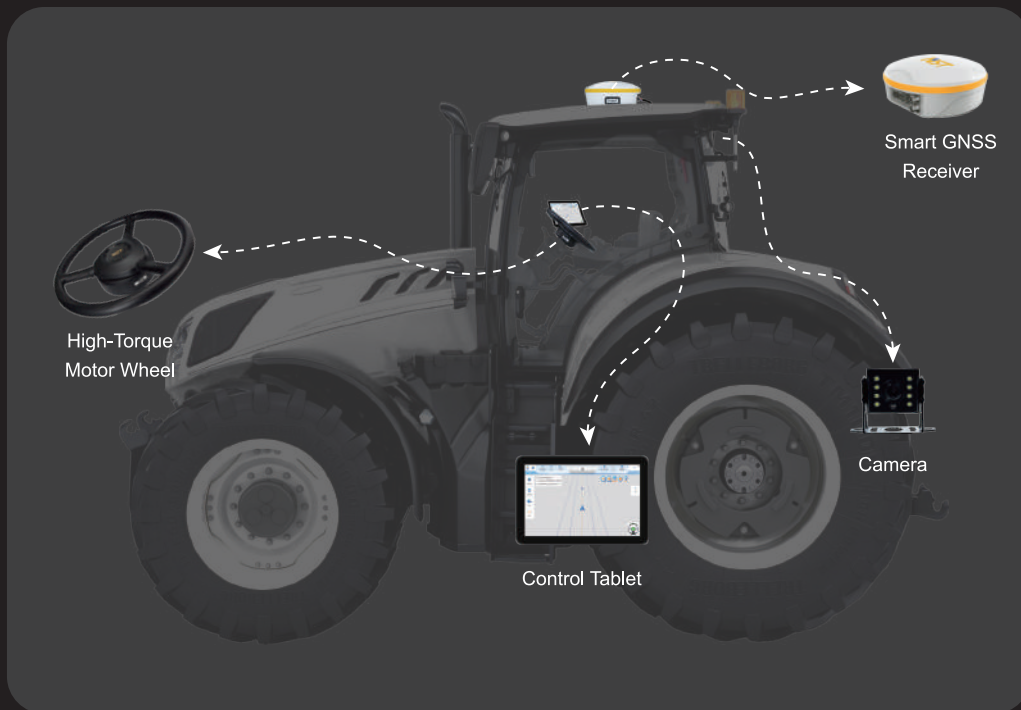


N600S L-Band

- Centimeter-level accuracy (without base station)
- Receives correction signals directly via L-Band satellite service
- 3–5 minutes to reach full accuracy
- Easily supports operations across multiple locations



Parts



High-Torque Motor Wheel

Spec	Value
Steering Wheel Diameter	410 mm
Motor Diameter / Thickness	182 mm / 61 mm
Weight	2.9 kg (Aluminum Alloy)
Power Supply	DC 6–35 V
Rated / Maximum Torque	4 Nm / 9 Nm



Optional Add-Ons



Multifunctional Bluetooth Steering Wheel Cover



Manual Activation Switch



IMU Sensor



ISOBUS Upgrade Kit



Remote Control

Control Tablet

N600

Spec	10.1" (Standard Tablet)
Display	10.1" Capacitive Touch Screen
Dimension	263 × 181 × 45 mm
Weight	1.7 kg
Dust & Water	IP67
Operating	Android 10
Bluetooth	Ver 5.0 (BLE)
Wi-Fi	802.11 a/b/g/n/ac/r, 2.4G/4G/5G
Interface	CAN Bus x2, RS232 x1, RS485 x1



N600Max

Spec	12" (Plus Tablet)
Display	12" Capacitive Touch Screen
Dimension	317.8 × 219.6 × 34.5 mm
Weight	1.75 kg
Dust & Water	IP67
Operating	Android 11
Bluetooth	Ver 5.0 (BLE)
Wi-Fi	802.11 a/b/g/n/ac, 2.4G/5G
Interface	CAN Bus x2, RS232 x2, RS485 x1, Ethernet x1, DC Output x2, IO Input x2, USB 3.0 x1

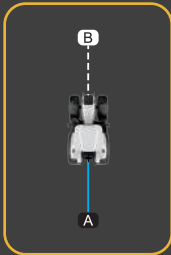


GNSS Receiver

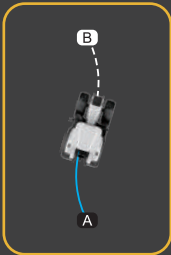
Spec	Value
Dimension	179 × 179 × 69 mm
Weight	1.1 kg
Dust & Water Resistance	IP67
Power Supply	DC 9–36 V
Communication Protocol	NMEA 0183
GNSS Support	GPS L1/L2, BDS B1/B2, QZSS L1/L2/L5, GLONASS L1/L2, Galileo E1/E5a/E5b
Built-in	GNSS board, IMU sensor, radio, antenna



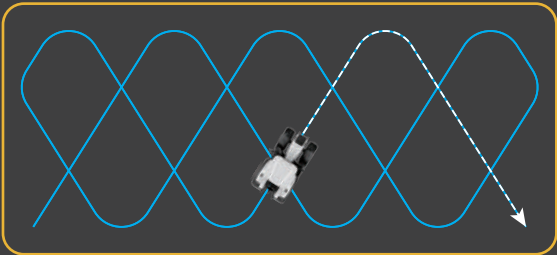
Guidance Line



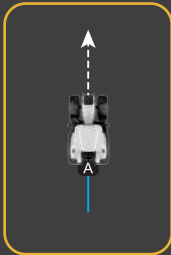
Straight Line



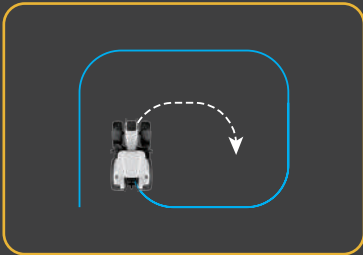
Curve



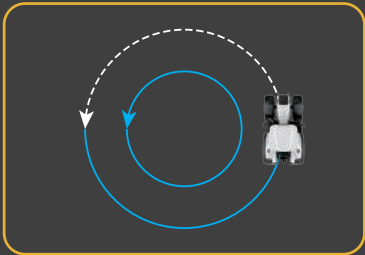
Diagonal Rake



A+ Line

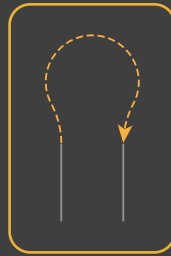


Concentric Circles

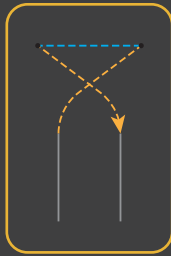


Pivot

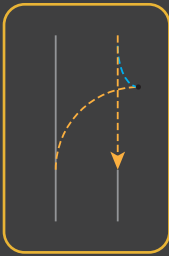
Auto U-Turn



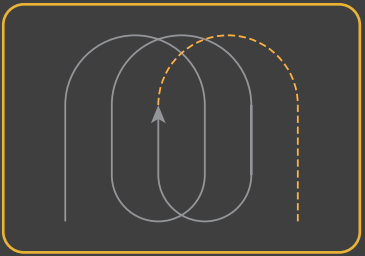
Basic Turn



Fishtail Turn



A Turn



Smart U-turn

Application



Soil Preparation



Ridging



Sowing



Mulching



Spraying



Harvesting

N600SF

Seeding & Fertilization Control System

Based on satellite navigation speed measurement technology, this precision control system is designed for seeding and fertilizing machinery. It accurately controls the motor speed in linear correlation with the operating speed, ensuring precise seeding and fertilizing amounts according to user settings. The system boasts high precision and convenient seed rate adjustment and is unaffected by ground conditions, preventing inaccurate seeding caused by ground slippage.



Rapid Response For Increased Yields



Effortless Control



Auto Start/Stop



Multiple Speed Mode Support



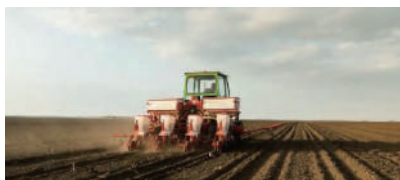
Intelligent Monitoring Sensors



Easy Installation



Individual Row Control



Multi-Row Automatic Section Control



Precise Servo Motor Control



Integrated Drive And Control

N600SR

Hydraulic Auto-Steering System

N600SR is engineered for steer-ready vehicles, giving operators direct, algorithm-driven control of the tractor's own factory hydraulic valve for precise, responsive steering — no need to remove or replace the original steering wheel, and no separate hydraulic valve to install. With a compact design and simplified components, N600SR delivers a true plug-and-play path to auto steering system, built specifically for high-horse power machinery.



Closed-Loop Hydraulic Control

Direct, algorithm-based control of the vehicle's factory hydraulic solenoid valve for precise, responsive steering suited to high-horsepower machinery



Seamless Steer-Ready Integration

Plugs directly into the vehicle's existing steer-ready port with minimal setup; retains the factory-installed hydraulic valve for full compatibility, performance, and reliability



Centimeter-Level Positioning

Up to 2.5 cm accuracy via RTK base station service, or decimeter-level accuracy with free PPP signal when RTK isn't available



Multiple Guidance Lines + U-Turn

Straight Line, Curve, A+ Line, Circular Curve, and Headland, plus U-Turn for optimal path planning between rows



ISOBUS Compatibility

Connects to a wide range of steerable agricultural implements, reducing the need for additional equipment



Instant Manual Override

Simply turn the steering wheel to switch from auto-steer to manual control in an emergency



Integrated Smart Terminal

A single tablet and GNSS receiver combo for quick, plug-and-play setup



Driving Precision for the World

N600L

Auto Steering & Land Leveling System

N600L brings auto steering and land leveling together in a single, integrated system — combining two capabilities your farm needs into one investment instead of two, and lowering the cost of going smart. Everything runs from a single control terminal, so operators manage steering and leveling from the same display instead of switching between separate systems in the cab. And because the N600L is built on the same high-precision positioning platform as the rest of the N600 series, it's not just solving today's leveling and guidance needs — it's laying the groundwork for whatever comes next as your operation moves further into smart farming.



Integrated Auto Steering
+ Land Leveling



Precision Grade Control



Elevation Mapping



Multiple Guidance
Line Options



Real-Time
Grade Display



High-Precision
Positioning



ISOBUS
Compatibility



Seamless Fleet
Upgrade Path

Driving Precision for the World



N250

Manual Guidance System

N250 is a professional GNSS smart antenna with a large display and easy-to-use guidance software to bring accurate, affordable guidance to every operation. Robust and built for the field, N250 helps operators extend working hours and boost farm productivity — the cost of a full auto Steering System.



Ideal For

Farmers who want reliable, accurate guidance to reduce overlap and operator fatigue, without the investment of a full auto steering system — and who want the option to upgrade to autonomous steering later without replacing their hardware.



Effortless Setup

Plug-and-play installation with just one connection (GNSS antenna + terminal); no complex wiring, ready in minutes



Precision Flexibility

Multi-GNSS support (GPS / BeiDou / Galileo); Decimeter-level accuracy via PPP with no base station needed, or 2.5 cm RTK precision where service is available



Multiple Lines

6+ guidance patterns (Straight, Curve, A+, Pivot, Concentric Circles), line-shifting, and multi-format data transfer



Full-Season Workhorse

Covers every operation from harrowing to planting, spraying, and harvesting



Future-Ready Upgrade

A seamless upgrade path to AutoSteer when you're ready to move to full auto Steering System

Spray100

Intelligent Spray Control System

Spray100 automatically adjusts spray rate in real time based on vehicle speed, spray width, and target application volume — increasing output as you speed up and reducing it as you slow down. Consistent, uniform pesticide and fertilizer application across every pass, with no over-application to damage crops and no under-application to leave gaps in coverage.



Automatic / Manual Modes

Configurable valve groups to match how your operators want to work



98% Spraying Accuracy

Stable, reliable performance that reduces waste and cuts input costs



Expandable with Auto-Steering

Pairs with an auto-steering system for real-time trajectory display and section control



Remote Monitoring

Transmits operation data for real-time, background visibility into every job



Broad Compatibility

Works across all types of sprayers and liquid fertilizer applicators



Smart Alarms

Flags speed, flow rate, or pressure readings outside a safe range

Parts



GNSS Antenna

Multi-frequency, high precision, stable signal, strong anti-interference



Intelligent Spray Controller

Supports multiple communication methods, high protection rating



Display & Control Terminal

Rugged design, built for harsh working environments



Control Valves

Rated to 20 bar working pressure; supports pressure and flow feedback

System Parameters

Item	Parameter
Spraying accuracy	98%
Working pressure	≤2MPa
Flow range	10-260L/min
Speed accuracy	Sub-meter/cm level
Number of sectional valves	Up to 20 ways
Guided navigation	Yes
Position accuracy	≤0.1m

Application



Operators running sprayers or liquid fertilizer applicators of any type who need consistent, waste-reducing application across variable field speeds and terrain.

Compatible with N600 GNSS Auto Steering System





Driving Precision for the World

ISOBUS Upgrade Kit

**Full ISOBUS functionality directly on your Android tablet.
All control, right at your fingertips.**

NST works hand-in-hand with today's leading implement manufacturers to bring you a complete, all-in-one ISOBUS solution — combining a rugged terminal, precision auto-steer, and GPS positioning in a single integrated system, so you can monitor and control your ISOBUS-compatible implements from one screen.



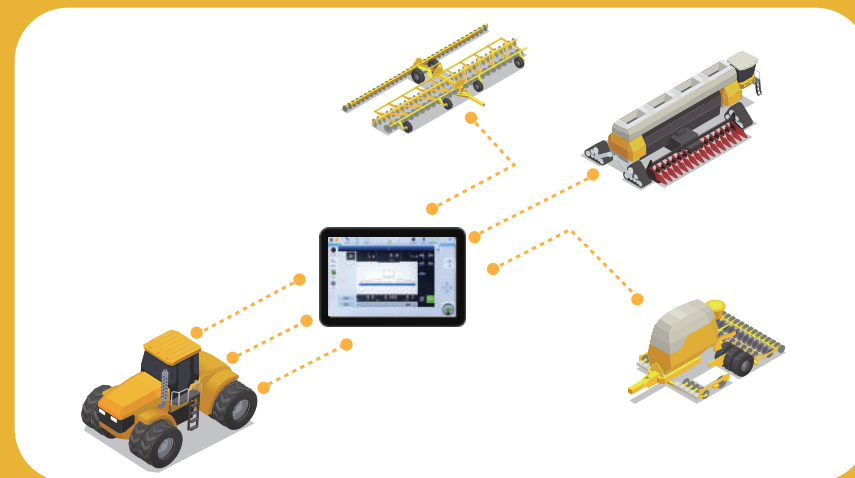
One System. Every Implement.

From sprayers and seeders to fertilizer spreaders, balers, tillage tools, and harvesters — the NST ISOBUS Terminal is compatible across your entire fleet, giving you one consistent interface no matter what's hooked up behind the tractor.

ADD-ON

License — Section Control (TC-SC)
License — Variable dosing (TC-GEO)





Universal Terminal (UT)

The NST terminal is a high-resolution, field-ready display built to show and control any ISOBUS-compliant implement per ISO 11783. From the cab, operators get real-time visibility into implement status, job data, and machine settings — no matter which brand of equipment is connected.

AUX-N

Assign auxiliary functions to physical buttons and switches for fast, intuitive one-touch control of implement operations, cutting down on menu digging while you're in the field.

Task Controller (TC-BAS / TC-SC / TC-GEO)

TC-BAS — Core task-controller functionality for logging and managing job data across implements

TC-SC (Section Control) — Automatic section control based on GPS position, opening and closing implement sections to eliminate overlap and skips

TC-GEO — Precision, map-based application control that varies rates on the go using GPS and prescription data — for smarter seed, fertilizer, and chemical use



Driving Precision for the World

N200

GNSS Land Leveling System

N200 GNSS Land Leveling System is an advanced precision agriculture solution powered by RTK positioning technology. It provides centimeter-level accuracy for efficient land surveying and leveling operations, helping farmers optimize water usage, reduce fuel consumption, and improve crop productivity.



30-50%
WATER SAVING ♡

70-80%
IRRIGATION EFFICIENCY ♡

20%
FERTILIZER SAVINGS ♡

9%
LAND UTILIZATION INCREASE ♡



One-key Benchmark



10.1" tablet



±2cm High Accuracy



3D terrain map



Intelligent
earthwork calculation



IP 65 water &
dust resistance



Compatible with
various scrapers



Real-time highlight
trajectory



Supports flat &
slope leveling

Main Components

GNSS Antenna

Multi-constellation RTK positioning ensures stable and accurate field measurements.



Control Tablet

Multi-constellation RTK positioning ensures stable and accurate field measurements.



Remote Controller

Convenient remote operation for easier system control during leveling work.



20-30%

CROP YIELD INCREASE ▲

80%

MEASUREMENT COST REDUCTION ▼

N30

Laser Land Leveling System

N30 Laser Land Leveling System is a reliable laser leveling solution designed for accurate and efficient field leveling. With advanced laser technology and automated control, it helps farmers improve land preparation efficiency, save water, and enhance crop performance.



30-50%
WATER SAVING ♡

70-80%
IRRIGATION EFFICIENCY ♡

20%
FERTILIZER SAVINGS ♡

9%
LAND UTILIZATION INCREASE ♡



One-click
Operation



Fast
Installation



$\pm 2\text{cm}$ High-precision
Leveling



$\pm 0.5\text{cm}$ Laser
Detection Accuracy



Single laser
transmitter



Ni-MH Rechar-
geable Batteries



IP 65 water &
dust resistance

Main Components

Laser Transmitter (L100/L100S)

Self-leveling laser emitter with 500m operating range and $\pm 1\text{mm}/1.5\text{m}$ laser accuracy; L100S adds OLED display and IP55 protection.



Laser Receiver (R100)

360° beam reception with high-brightness color LED display, IP65 rated, 600m detection range.



Vehicle-Mounted Control Box (CB100)

2.4" OLED screen, connects to 1 laser receiver and 1 control valve for automated scraper control.



N50

Laser Land Leveling System

N50 Laser Land Leveling System is an advanced dual-receiver laser leveling solution featuring enhanced precision and intelligent blade control. It provides more flexible and accurate leveling performance for complex terrains, helping farms maximize efficiency and improve soil management.



30-50%
WATER SAVING ♡

70-80%
IRRIGATION EFFICIENCY ♡

20%
FERTILIZER SAVINGS ♡

9%
LAND UTILIZATION INCREASE ♡



One-click
Operation



Fast
Installation



$\pm 2\text{cm}$ High-precision
Leveling



$\pm 0.5\text{cm}$ Laser
Detection Accuracy



Dual Laser
Receiver Support



Ni-MH Rechar-
geable Batteries



IP 65 water &
dust resistance

Main Components

Laser Transmitter (L100S)

Self-leveling laser emitter, OLED display, IP55 rated, 500m operating range, $\pm 1\text{mm}/1.5\text{m}$ laser accuracy.



Laser Receiver (R100x2)

Dual receivers for wider coverage & improved leveling precision; 360° beam reception, IP65 rated, 600m detection range.



Vehicle-Mounted Control Box (NT50)

OLED screen, connects to 2 laser receivers and 1 control valve for more responsive automated scraper control.



20-30%

CROP YIELD INCREASE ▲

80%

MEASUREMENT COST REDUCTION ▼

M20-1

Radio Base Station

NST M20-1 is a multifunctional RTK base station receiver equipped with a high-precision GNSS board, radio module, Bluetooth module, and standard RS232 serial port. It can connect to an external radio, achieving synchronous transmission through both the built-in and external radios, significantly enhancing data transmission stability. The M20 base station provides RTK correction signals to achieve centimeter-level precision in positioning and navigation.



High-Precision GNSS



Radio Module



Metal Housing



Satellite Status



Bluetooth Module



Multi-Protocol Support



Base / Rover Station



Dual Mode Setting



Driving Precision for the World



M40

Base Station

Achieve fast, steady RTK fixed solutions within seconds. Powered by advanced RTK algorithms and full-constellation satellite tracking, it maintains consistent high-reliability positioning, even in challenging environments with heavy signal reflection and interference.



60° Tilt
IMU



±2.5 cm
Accuracy



IP 68



Wide
Coverage



Satellite
Status



External UHF
PDA CORS



Over 20hrs
Operation



5-Second
Fast Initialization

KP80

Lawn Mower

KP80 lawn mower robot utilizes a hybrid electric powertrain. It supports flexible dual-mode switching (autonomous/manual), and autonomous charging, enabling continuous operation day and night. Its compact tracked structure enables zero-turn maneuverability and stable operation in a variety of complex terrains, including lawns, hills, terraced fields, photovoltaic areas, and 60° slopes. This significantly improves efficiency and reduces labor reliance, making it an ideal intelligent device for landscaping, forestry management, and slope cultivation.



Extreme
Slope 60°



Rein/thickened
Blades



Low Noise
Low Emissions



Remote Controlled
Operatio



Diameter
1000 m



All-terrain
Capability



Hybrid Power
(Gas/Electric)



360° Zero-turn
Maneuverability



Heavy-duty
Construction



Multi-height Cutting
Adjustment

Driving Precision for the World



KP50

MowCart

KP50 intelligent tracked mower and transport robot innovatively combines intelligent mowing and autonomous transport functions, easily navigating a variety of complex terrains, including 30° steep slopes, wasteland, orchards, and terraced fields. It supports continuous operation day and night and self-charging. Operators simply wear a lightweight handheld terminal to achieve intelligent "walk, follow" collaboration. The integrated mowing and transport functions significantly reduce labor costs by 70% and improve operational accuracy and stability. With its highly intelligent and integrated design, it provides an efficient, safe, and economical all-terrain automation solution for modern farms, photovoltaic parks, and hilly orchards.



Remote Controlled
Operation



Expandable
Tray



Control
Follow



Multi-height Cutting
Adjustment



Wear-Resistant
Track



Brushless
Motor



Scalability



Rechargeable
Batteries



Heavy-duty
Construction



Adjustable
Speed

WHY BECOME AN NST DEALER?

01

Competitive Products

Offer reliable precision agriculture solutions with strong market competitiveness and flexible product options.

02

Attractive Profit Potential

Build healthy margins through competitive dealer pricing and scalable sales opportunities.

03

Complete Sales Support

Get product training, marketing materials and technical support to help you sell with confidence.

04

Easy to Start

Start with a demo unit and initial customers, then expand your business as the local market grows.

05

Long-Term Partnership

Grow with NST through continuous product development, technical support and market cooperation.

ABOUT NST

NST is a technology enterprise dedicated to agricultural innovation. With the core mission of "Driving Precision For The World", we deeply integrate automation, digitalization and green energy technologies to provide innovative solutions for addressing challenges such as labor shortages and skill transmission gaps faced by agriculture in Japan and globally.



YOUR PARTNER IN PRECISION AGRICULTURE

40%

R&D Team

3

Branches

20+

Export Countries