

SPECIFICATIONS

Machine Guidance System

Ver.2026.3.18

Signal Tracking

GPS	L1C/A, L2C, L2P
BDS	B1I, B2I, B3I, B2b
GLONASS	G1, G2
Galileo	E1, E5b
QZSS	L1C/A, L2C
SBAS	L1C/A

Accuracy

Horizontal Accuracy	8 mm + 1 ppm
Vertical Accuracy	15 mm + 1 ppm
Azimuth	0.2°/R
Roll or Pitch	0.4°/R
Piling Accuracy	2cm

Sensor (Optional)

Size	37.6 x 55 x 24mm
External Power Input	9~36V
Angle Range	±80°(Pitch) ±180°(Roll)
Dynamic Accuracy (RMS)	0.4°
Operation Temperature	-40~85°C
Waterproof and Dustproof	IP68

Tablet

Size	10.1"
Resolution Rate	1280*720
Memory	4GB RAM 64GB ROM
System	Android 9.0
Working Temperature	-30°C~+75°C
Storage Temperature	-40°C~+85°C
Waterproof and Dustproof	IP67
Power Supply	DC 6V~36V
Wifi/Bluetooth	Yes
Type C Port	1
USB Port	3
TF Card Slot	1
SIM Card Slot	1
GNSS Antenna Port	1
UHF Antenna port	1
4G antenna port	1
Lemo port	3 (including RS232/RJ45 PPS/EVENT/CAN/USB)
Datalink	Frequency Range: 410-470MHz Transmit power: 0.5W, 1W, 2W adjustable Air Baud Rate: 9600 / 19200 adjustable



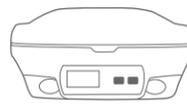
Tablet



GNSS Antenna



Sensor(Optional)



RTK Base (Optional)

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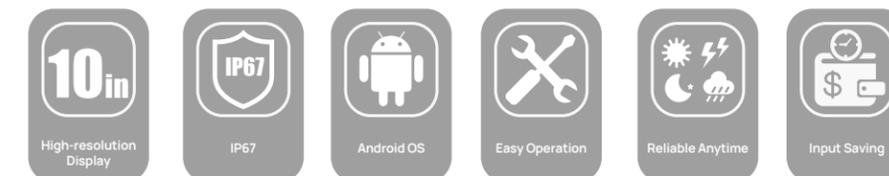
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ComNavTech



XP300

GUIDANCE SYSTEM FOR HIGH-ACCURACY PILING



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XP300 GUIDANCE SYSTEM

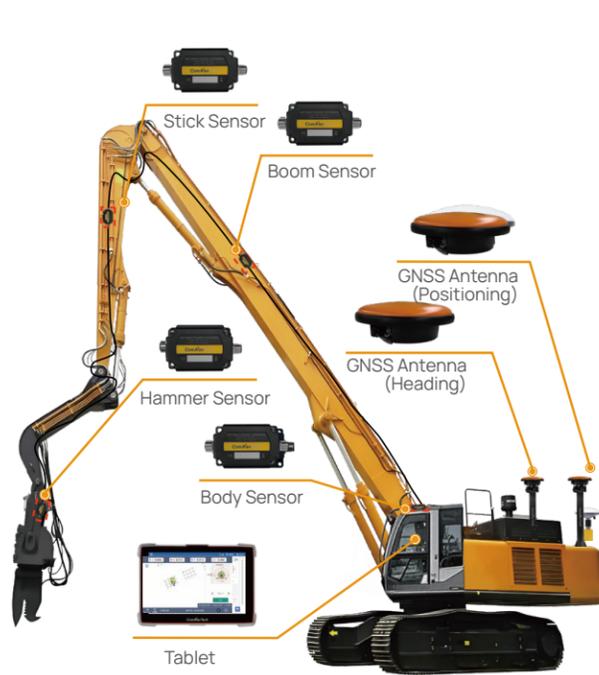
The XP300 is an advanced guidance system designed for high-precision piling operations. Engineered for all-weather performance, the XP300 ensures exceptional accuracy in piling, significantly enhancing project efficiency. This system simplifies management, eliminating the need for extensive pre-operation setup, thereby reducing construction time and costs. It offers intelligent monitoring and visual operation, delivering precise results consistently. The XP300 also minimizes labor requirements and reduces worker fatigue through its integrated software solutions. Ideal for a wide range of applications, the XP300 is perfect for infrastructure projects, road and bridge construction, coastal operations, municipal engineering, and building construction.



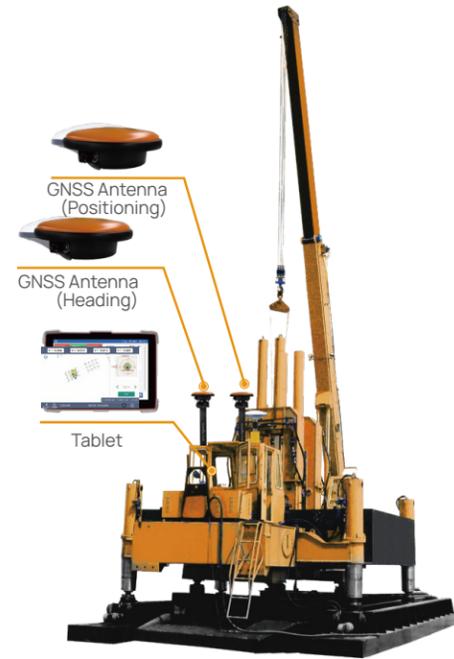
Support CORS



Support RTK Base



Excavator-mounted Pile Driver



Static Pile Driver



GNSS Tablet

- Aluminium magnesium alloy shell with IP67 dust- and waterproof
- Sunlight readable capacitive screen
- High resolution LCD display



RTK Base (Optional)

- Portable design with up to 15km working range
- Support full-constellation multi-frequency tracking with 1590 channels



Sensor

- Biax gyroscope with great measuring range
- Wide temperature operation (-40 ~ +85°C)
- IP68 rugged design, shock-resistance



GNSS Antenna

- Full-constellation multi- frequency tracking stable signal
- Quick and convenient to install

FEATURES



2CM REAL-TIME PILING ACCURACY

XP300 ensures proven 2 cm real-time piling accuracy, while reducing labor costs for your construction.



SUPPORTS VARIOUS FORMATS

Directly import your txt. and csv. files to achieve efficient points piling.



HIGHLY INTEGRATION DESIGN

10" high-resolution tablet with integrated high-precision GNSS module allows for easy installation and operation.



FLEXIBLE RTK CORRECTION DATA RESOURCE

Acquire correction via internal datalink by setting up N5 GNSS receiver as the base. It also allows you to connect local CORS to get corrections.



RELIABLE EVERYWHERE ANYTIME

Dust and waterproof components, robust design, rugged sunlight-readable touchscreen can deal with various weather environments.



USER FRIENDLY INTERFACE

Pressure sensitive touchscreen with graphic icon design provides you with an intuitive user interface, ensuring an efficient piling workflow even for untrained operators.

SOFTWARE

PILE MASTER

- Adapts to various machine models
- Support connection with Datalink and CORS
- User-Friendly Interface
- Allows for Multiple File Editing
- Adjustable precision settings
- Supports easy switching and point correction
- Imports csv, txt, xml, sjw, and dxf formats



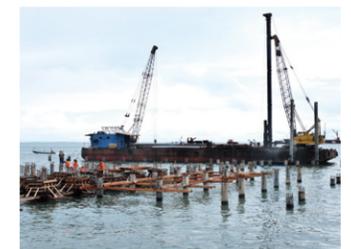
APPLICATIONS



ROAD AND HIGHWAY CONSTRUCTION



BRIDGE CONSTRUCTION



PORT AND DOCK CONSTRUCTION



MUNICIPAL ENGINEERING



HIGH-RISE BUILDING CONSTRUCTION



COASTAL OPERATIONS