

# Topcon Hybrid Robotic

Integrated GNSS and Total Station



Combined Robotic Total Station  
and GNSS Integrated Receiver



Learn more at [topconpositioning.com](http://topconpositioning.com)

 **TOPCON**

For Work That Matters™



# Integrated GNSS and Total Station

## Software - Hardware - Technology

The Hybrid Robotic system solution is the combination of GNSS positioning, an optical total station, and automated data workflow. By utilizing both GNSS and optical measurements, any job site project can be completed faster, and with the precision needed. In addition, by adding new efficient data workflows from the entire Topcon software system, productivity increases at each phase.

The precision and tracking ability of our robotic instrument provides precise measurements anywhere the prism can be seen. The GNSS positioning of the RTK rover pole can be used for measurements that are not in the line of sight.

More than just an integrated surveying solution, the Hybrid Robotic System includes the data flow connection to the office. Exchange data files in real-time with Topcon Enterprise.

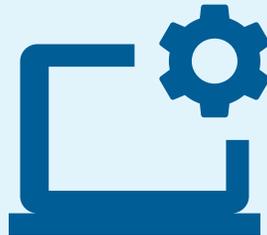
There are many hardware configurations from Topcon that can benefit from the use of hybrid positioning. This technology is compatible with all modern robotic systems as well as GNSS integrated receivers from Topcon.

- » Combine GNSS and optical measurements
- » Automatic prism reacquisition
- » Network or local RTK
- » Extended range Longlink™ Bluetooth® communication
- » Rugged, waterproof design
- » Improved data workflows

# HYBRID ROBOTIC SYSTEM



GT-series



Topcon Software



Topcon GNSS



Topcon Enterprise



FC-6400

## Hybrid Positioning Performance

Using the Hybrid Positioning System, job site measurements can be completed faster. Productivity will be increased with fewer robotic tripod setups. Collect measurements with GNSS or the robotic total station anywhere on the job site.

## Network RTK, Topcon Relay, or Local RTK

Use any type of GNSS positioning in your hybrid system to enhance your robotic reacquisition and jobsite localization routines. TopNETlive, Network RTK, Topcon Relay, or a local base station RTK message will provide the best hybrid positioning solution.

Learn more at [www.topnetlive.com](http://www.topnetlive.com)



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For Work That Matters™



### GT-series Robotic Total Station

- 10 Hz update rates to the FC-6400 field computer for more efficient staking
- Ultrasonic Direct Drive motors with 180° turning speed for exceptional productivity
- 30% smaller and lighter than any other Topcon series robotic instrument
- Optimize productivity by combining the GT-1200/GT-600, FC-6400, and Topcon software with a HiPer series receiver



### FC-6400 Field Computer

- Increased processing speed for data sets large and small with improved graphics
- LongLink™ Bluetooth® provides two times longer range than normal Bluetooth
- Long lasting, hot swappable battery and an internal battery for additional runtime
- Optional external keyboard further enhances productivity



### HiPer VR GNSS Receiver

- Withstand the harshest environments with rugged IP67 design
- Capture mis-leveled field measurements out of plumb by as much as 15°

### HiPer CR GNSS Receiver

- The HiPer CR stands out as a compact lightweight receiver with all-constellation tracking
- All-day hybrid measurements because of its portability and battery life



### Topcon Software Suite

- Streamline your most-used routines and ensure a fast and easy data connection from field to office
- Faster, customizable applications for processing, field-to-finish and 3D construction
- Integrate robotic total station and GNSS with increased speed and productivity
- Graphical intuitive software with low learning curve
- Microsoft Bing Maps® for satellite image background

