



# Vibrator Auto-Guidance



OPTIMIZE VIBROSEIS OPERATIONS

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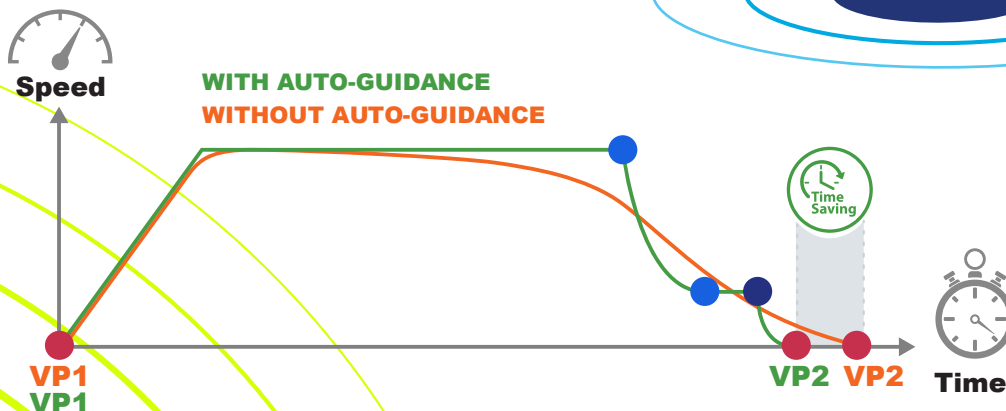
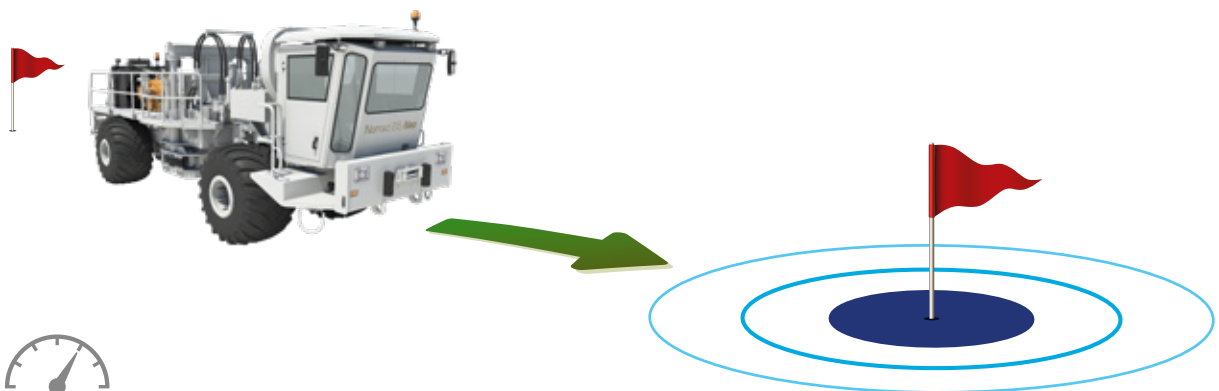
Auto-Guidance is a solution optimizing the vibrator move-up time between two VPs. Installed in the driver's cab and connected to the Nomad Central Command Unit, Auto-Guidance is able to take over control of the vehicle speed and baseplate commands. Using the vehicle's real time GPS position and that of the next "target" VP, Auto-Guidance computes and implements the most efficient deceleration profile towards the target and anticipates the baseplate down command.



## Up to 10% increased productivity

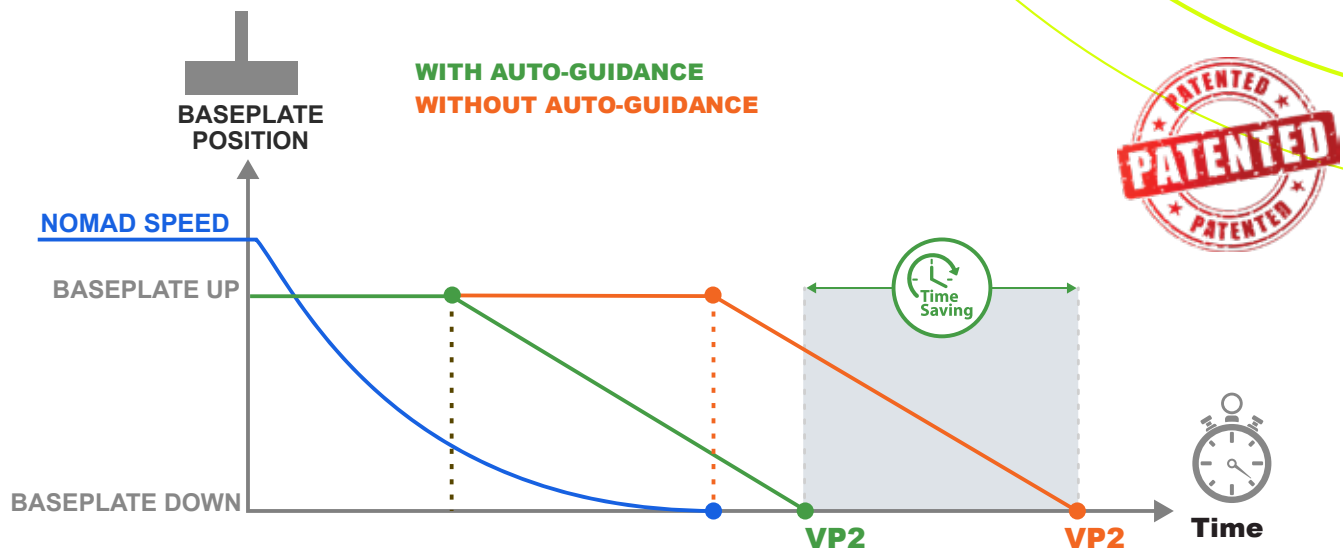
### Optimize the travel time between two VPs

The approach phase is the most critical, too low a speed impacts productivity whereas too high a speed risks missing the surveyed VP position. With the Auto-Guidance, the speed is calculated to optimally position the Nomad in the absolute shortest time without any influence from the driver.



## Reducing the baseplate dead time

The full control of the Nomad deceleration has been made possible by the development of new software algorithms. These allow for an advanced downward deployment of the baseplate avoiding dead time that on high production crews can be quite significant. The Auto-Guidance also guarantees that the vehicle is stopped before the baseplate touches the ground.



## Better Data Quality

By ensuring that the Nomad is consistently positioned with a high degree of accuracy (typically within 1m of the surveyed position), the Vibrator Auto-Guidance also contributes to achieving the highest possible final data quality.



## Improved HSE

With the Auto-Guidance solution, the driver need only keep his foot on the throttle during the deceleration phase, the Nomad speed will be controlled and adjusted automatically.

- Driver fatigue is reduced as less throttle and brake manipulation is required.
- With speed managed automatically, the driver has more time to focus on the environment reducing the risks of external hazards.



#### **SERCEL - FRANCE**

16 rue de Bel Air  
B.P. 30439 - 44474 CARQUEFOU Cedex  
Téléphone : (33) 2 40 30 11 81  
E-mail : [sales.nantes@sercel.com](mailto:sales.nantes@sercel.com)  
SAS au capital de 25 000 000 €  
Siège Social : 16 rue de Bel Air - 44470 CARQUEFOU  
378.040.497 R.C.S. Nantes Code APE 2651B

#### **SERCEL INC. - U.S.A.**

17200 Park Row  
Houston, Texas 77084  
Telephone : (1) 281 492 6688  
E-mail : [sales.houston@sercel.com](mailto:sales.houston@sercel.com)

[www.sercel.com](http://www.sercel.com)

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