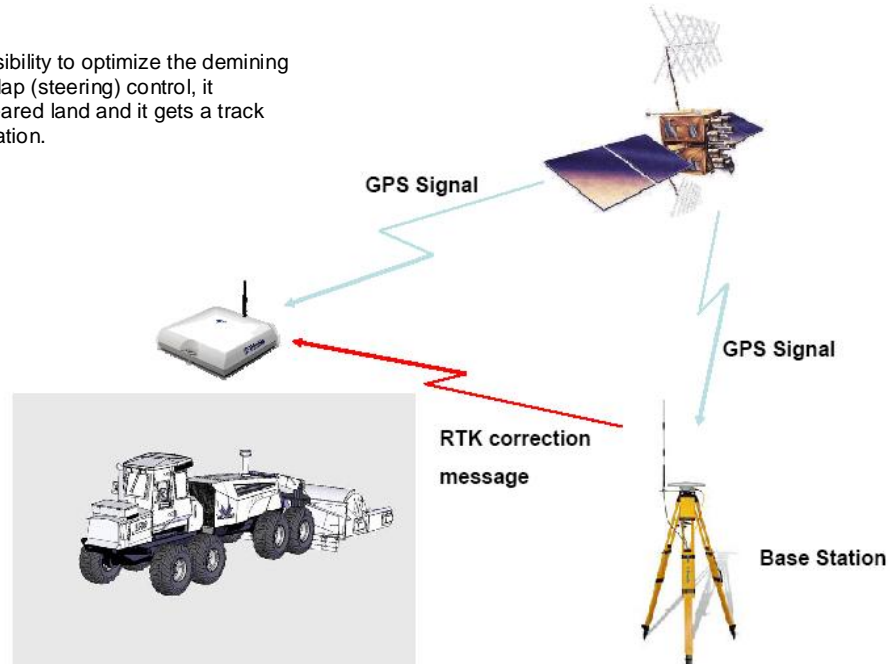


GPS system

GPS Autopilot

This GPS system gives possibility to optimize the demining operation by automatic overlap (steering) control, it minimizes the risk of non cleared land and it gets a track record of the demining operation.



The system uses the commercial GPS satellites and consists of a receiver with antennas and an operator screen in the Scanjack 3500.

To get the correct GPS precision a base station is needed. It gives a RTK Correction message to the Scanjack to keep the precision (down to 5cm). The base station can be placed up to 10km from the Scanjack 3500.

Track record

The GPS system saves a track record of the demining operation.

Every mine explosion can be marked by the operator and saved in the track record.

The track record can be transferred to a PC by a USB stick and used in the documentation of the operation.



Scanjack AB

Norra Uppfartsvägen 9
SE 783 32 SÄTER
Sweden

Telephone: +46 (0)70 233 00 04
www.scanjack.com
info@scanjack.com

VAT no: SE556570825101
Org no: 556570-8251
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How to use the GPS system

The system is integrated in operator cabin with easy access for the operator.

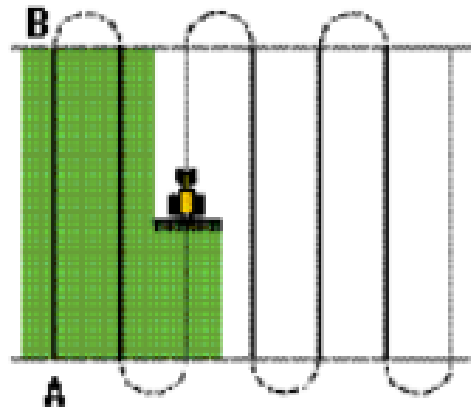
The operator can choose from different driving patterns. The patterns can be straight, bent or a combination.



The most simple pattern is the straight line pattern.

- The operator drives the first lane manually marking point A at the beginning of the lane and point B at the end of the lane.
- A straight line is generated from these two points and the system draws parallel guide lines to the first line.
- The operator can choose to steer manually according to these lines or to engage automatic steering.

The set up for all driving patterns are based on the same principals where the operator drives the first lane manually, and then the system generates parallel guide lines.



During operation the operator can check that all area has been flailed by the screen in the cabin.

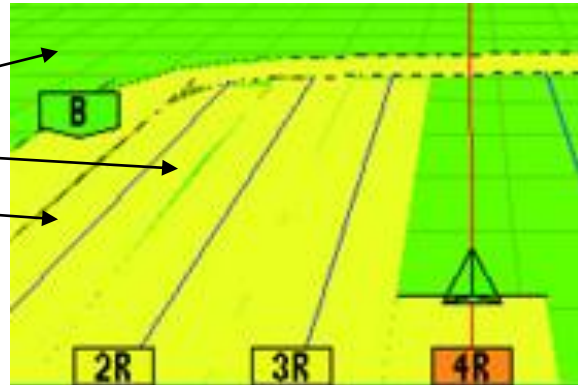
The SCANJACK 3500 GPS system



After the Demining operation can the track record be re checked in a PC and it can be verified that all area have been flailed.

Un flailed area are shown in green colour

Flailed areas are shown in yellow.



The overlap is shown in brown colour.

