

A Bit On The Side For T R Services UK Ltd



Date

Installed November 2004

Project Facts

Instruments

- MOBA-Matic System

Benefits

- Choice of sensing via ground, string or curb line means maximum flexibility.
- Ease of use, quick to learn, easy to use.
- MOBA-Matic is fully up-gradeable so can grow with the business



T R Services UK Ltd, based in Coalville, is a newly formed company, set up to operate off-set placing machines, designed and built on their premises in Ellistown. T R Services is using the MOBA-Matic Control System provided by Leica Geosystems.

The off-set placing machines, more commonly known as a Sidewinder within the industry, are purpose-built machines designed around a requirement and based upon the best of what has gone before. The first Sidewinder was completed in October 2004, and was put to work shortly thereafter, going from strength to strength. The Sidewinder was designed to fill a trench of width ranging from 500mm to 4000mm, this it does quickly and efficiently with a capacity to discharge 20 tonnes in as little as 2 minutes with grade control provided by a MOBA-Matic screed control system from Leica Geosystems.

The Sidewinder is unique in that it will place material to either the left or right of the machine, thereby enabling road

"I see an increasing move towards 'working smarter' and this is definitely the way to go"

Terry Haley, TR Services

Task

Using the MOBA-Matic System on an offset placing machine

Customer

T R Services Ltd

widening work etc be undertaken with all equipment grounded on the road surface. Equipped with a flexible operating station, it can also be operated from either side. The Sidewinder has a flexible modular screed/blade system that can be quickly set up to provide practically any profile, with "v"channel and crown included.

The MOBA-Matic system chosen by T R Services provides the option of automatic control of screed elevation and inclination. Sonic-SKI sensors can be fitted to either side of the screed/blade (these sensors have five individual sensors detecting the ground level, whilst a sixth sensor is used for temperature compensation) to detect height offsets or to follow a stringline. Contact free sensing from the ground, string or curb line means maximum flexibility using different references with no mechanical wear or soiling of the sensor. The system enables T R Services to operate in two

Leica
Geosystems

Leica Geosystems Limited
Davy Avenue, Knowlhill
Milton Keynes MK5 8LB
United Kingdom
PH +44 (0)1908 256500
www.leica-geosystems.com

Application Report : Machine Automation

Benefits

- Choice of sensing via ground, string or curb line means maximum flexibility.
- Ease of use, quick to learn, easy to use.
- MOBA-Matic is fully upgradeable so can grow with the business



The flexible Sidewinder can place material on either side of the machine

ways, either material can be laid to a consistent measurement, following the existing road level, or can be laid to achieve a consistent level from stringline or curb. One key advantage of the MOBA-Matic system is the ease of use; it's quick to learn and means the operator can concentrate on other tasks, thereby speeding up the process. Optimal level-control means optimised use of materials, and increased consistency of the compacted surface.

The Sonic-ski and grade control enables the Sidewinder to maximise output with no compromise on accuracy. The Sidewinder has the capacity to deliver up to 20 tonnes in just two minutes. On a usual day the Sidewinder will output 400-500 tonnes, however on work recently undertaken on the M25 Heathrow the machine has achieved in excess of 200 tonnes in one hour and 800 tonnes in one day. The MOBA-Matic system is also a

'plug and play' system with all other MOBA sensors being automatically recognised by the controllers. Individual sensors can be connected and the system is capable of using laser receivers or even full 3D capability by adding robotic total stations. The MOBA-Matic system is a fully interactive paving system and allows the Sidewinder to be a truly flexible machine, capable of completing any job to any accuracy.

The success of the current Sidewinder has been such that work is well under way on the next machine, and they are keen to fit all machines with the MOBA-Matic solution. Terry Haley informs us that; "T R Services plans to continue to provide a quality job and the MOBA-Matic is another tool in our arsenal, I see an increasing move toward 'working smarter' and this is definitely the way to go".

The MOBA-Matic system enables maximum output with no compromise on accuracy.



Case Studies: Machine Automation