



Presents the Latest in Product Identification Technology

Telesis Provides High-Speed VIN Marking Solution for NedCar BV Automotive Assembly Plant

Last year, Telesis was approached by NedCar BV, situated in Born, The Netherlands. They needed a high volume identification unit for back-up underbody assemblies for the new SMART ForFour and Mitsubishi Compact Cars being assembled in this plant.

- Provide emergency stops and take complete possession and responsibility for part of the conveyor line;
- Installation, commissioning and training.

Process

1. An underbody assembly enters the marking station and is positioned by locators and clamps;
2. The assembly is detected and is verified that it is correctly in place;
3. A signal is given to the robot that it can move to the correct marking location;
4. The servo-driven Scribe Marking System is clamped onto the left front side of the assembly;
5. Detection sensors provide information that the marking system is correctly clamped and the marker is ready to start marking the chassis number;
6. The host sends the information that needs to be marked on the specific assembly;
7. The marking system acknowledges that it has received the information;
8. The marking cycle starts;
9. The marking system sends a <DONE> signal to the host and unclamps from the assembly;



A robot positions the TeleScribe® within the on-line marking station at NedCar BV.

NedCar BV is one of the most productive plants in Europe. They run three daily shifts. The operation is highly automated (robotized). The goal was to have a fully-automatic, low-noise marking (scribing) system, mounted on a robot in a guarded marking cell.

The marking system needed to be extremely fast and reliable to cope with the demands of NedCar. The identification consisted of seven 9 mm high characters. The entire cycle had to be completed within 30 seconds.

Plant management did not want to have any human interaction at the marking station. The station had to be “intelligent” and fully communicate with the host system of the plant. Telesis handled the entire project, which included:

- Fully-Automatic Marking Station;
- Installation and Programming of Robot;
- Fully Guarded Marking Cell according to latest CE requirements;
- Interface to Robot and Host in car assembly plant;



Telesis Servo-Driven TeleScribe® Marker clamped onto the body panel.

10. The robot moves to the home position and sends a signal that it is in the home position;
11. The assembly is transported to the next station and a new one enters the marking station.



Completely automated Marking Process.

NedCar BV wanted to work with only one party to solve their complete application. Telesis was able to provide its own custom machine building capability with in-house mechanical, electrical and software engineers.

Based on these parameters, Telesis recommended its state-of-the-art, servo driven **SC5000 Telescribe® Marking System** as the basis of the application. This unique system is able to mark a VIN number of 19 high quality characters (7 mm high) within seven seconds. The compact design of this system allowed it to be easily integrated and mounted on a robot.

The project was executed in a way unique to Telesis. Specialists at TelesisEagle (UK) designed and manufactured the complete solution and provided overall project coordination. The servo driven SC5000 Telescribe® Marking System was developed in close cooperation with Telesis headquarters in the USA. Local project management, communication with the customer and installation was executed through Telesis BV in The Netherlands. This cooperative approach was one of the main reasons Telesis was selected.

The entire project was designed and installed in a very short three months. Telesis' expertise, global staff and cooperation provided an exceptional solution for NedCar BV.



Robot moves the TeleScribe® back into Home position.

Telesis is the largest supplier of turn-key identification and traceability solutions in the world. They are consistently able to combine reliable, cost-effective solutions backed by fast, local after-sales service and support.

For more information on how a Custom Engineered System from TELESIS can increase YOUR Productivity, call our Application Engineering Department at 800-654-5696, or visit us on-line at www.telesis.com.

TELESIS

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