



CUSTOMER SUPPORT



RELIABILITY & QUALITY

HAUZE

# READY FOR INDUSTRY 4.0

The idea of Industry 4.0 is an inspiration in many sectors. Self-learning systems that help you increase throughput and reduce error rates, sophisticated statistical analyses that help you optimise timing and maintenance schedules, and perhaps even robot-assisted 24/7 productivity. Of course, we are not there yet. But with External Data Interface 4.0 (EDI 4.0), our new software interface, Hauzer machines are ready for whatever you have in mind.

## **Communicate and Control**

EDI 4.0 enables data exchange between Hauzer machines and customer systems. This makes two-way communication possible. In fact, you can control the entire system remotely, except loading, unloading and other physical activities. The new software interface is an extension of the previous

interface, which has been available on Hauzer machines for a long time. Previously, it was already possible to download all the data the machine was logging. For most customers, that is an unproductively large amount of data. With EDI 4.0, it is possible to export only the data you need for your specific application.

### Benefits For the Future and Today

The sky is the limit when it comes to systems to connect. As Industry 4.0 becomes more commonplace, more and more off-the-shelf customer systems will become available that are geared towards adding intelligence to your production systems or towards monitoring and steering by machine data. Hauzer's EDI 4.0 is set up to be very flexible, so you are free to connect it to any system you choose.

Pioneering companies can already use the new Hauzer software interface to significantly error-proof their operations. A great and easy add-on is a barcode scanner: simply scan the barcode on the batch order and the machine automatically chooses the right recipe and settings. Or have your Enterprise Management System (EMS) or Enterprise Resource Planning (ERP) system manage your batches. And by exporting log data to determine yield, you immediately get a better sense of your efficiency.

### Secure Connections

EDI 4.0 communicates securely through a SQL server to which other systems can also be connected. The SQL server is connected to your local network, which of course needs tight security at all times. Coating recipes and other business data are valuable, proprietary information; the more components

and systems are able to read and use information from your Hauzer machine, the more carefully the network needs to be protected.

### Why Start Now?

This is a good time to get started with Industry 4.0. As the concept is becoming more well known, more companies are creating intelligent software or custom sensors to help make your production line more self-sufficient. Governments, too, may be promoting the concept as a way to increase productivity and innovation in industry: the Italian government, for example, is paying companies a premium for investments in smart industry.

EDI 4.0 is available as an add-on for all new Hauzer machines and for most older ones as well. As long as your system has Windows 10, MySQL and Citect 7.2, Citect2016 or higher, you can have it upgraded to unlock these new opportunities.



For more information, please contact Albert Hendriks, the sales manager responsible for modifications, by e-mail at [AHendriks@hauzer.nl](mailto:AHendriks@hauzer.nl) or by phone at +31 77 3559 711.

## ROOM FOR EXPERIMENTATION

The vast majority of Hauzer machines is set up stand-alone. Operators input the batch data by hand and pick the right recipe, and the machine logs stay on the machines. But for customers who are interested in experimenting with Industry 4.0 and intelligent control, EDI 4.0 offers many options to interact and connect with the system.

### Some options for interaction:

- Remote start up
- Remote recipe selection
- Reading machine data
- Accessible for connection with other systems

### Data that can be exported:

- Selected recipe
- Active recipe
- List with available recipes on the machine
- Batch header data (batch number, used recipe, start or end date and time)
- The last scanned barcode on the machine
- Batch actuals data (date and time, recipe step, temperatures, pressures, gas flows, cathode and bias voltage, current)
- Overview actual machine state (shut down, standby, venting, pumping, start process, process, leak test)
- And much more