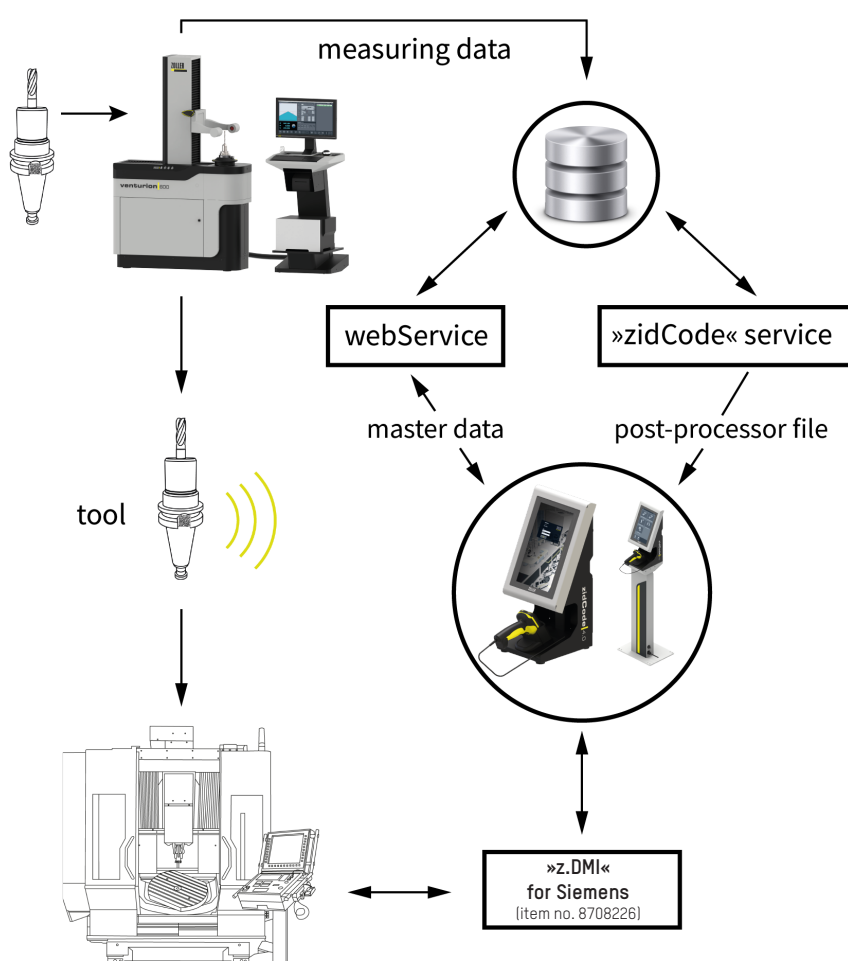


## »z.DMI« Technology for Siemens with »zidCode 4.0«

Thanks to the ZOLLER Direct-Machine-Interface Technology »z.DMI« for Siemens control systems, data is transferred directly to the control unit, deleted and transferred back to the »z.One« database. Thus, tool data is made transparent and available everywhere.



The tools are being inventoried and identified via a 2D code on the tool holder. At the ZOLLER presetting and measuring machine, the tool is measured in the »zidCode« module or another module. Measuring data is stored in the »z.One« database, independently of the machine.

The »zidCode 4.0« unit is located on every machine with a Siemens control. The tool is brought there and scanned, the tool data is transferred directly to the control system via »z.DMI« technology. After use, the tool is scanned there again and the data is deleted from the Siemens control. Tool life data is written back to the database and the tool can be read in on the next machine without having to be measured again.

### Your benefits:

- Easy operation due to automatized processes and explicit instructions
- Process reliability thanks to data centralization and thus avoidance of typing errors
- Cost reduction by tool life management and traceability of tools

### ZOLLER requirements:

- »zidCode 4.0« with basic software (item no. 8708253) version 1.02.0001 or higher
- »zidCode« module (item no. 8708250) starting with »pilot 4.0« version 1.18.21 or higher
- Siemens Access My Machine Interface (item no. 8708226)

### Requirements Siemens:

- Check software version and OPC UA server according to the table on page 2 and select if necessary.

### Requirement for tool holder:

- 2D-code identification, e.g. ZOLLER idChip (WZV1000-030)

We prepared a video for you on how to achieve more safety and efficiency through simple tool data handling with »zidCode« and »zidCode 4.0«: Scan the adjacent QR code or enter the link below in your browser:  
<https://youtu.be/J7mYwcnRYAg>



## Check the requirements of your machine and select the most suitable OPC UA server

To make sure that this technology will work properly, it is necessary that the appropriate OPC UA server is installed on the machine control.

The ZOLLER Direct-Machine-Interface technology »z.DMI« for Siemens transfers the data via OPC UA and is mandatory once per machine. The OPC UA server can be purchased from the machine manufacturer or from ZOLLER.

The table below can be used to check the appropriate software version of the Siemens control in order to select the correct OPC UA server.

1. Select control type of CNC machine provided by the customer.
2. Check the software status of the Siemens control.
3. Check if an OPC UA server is installed.
  - > If yes: check version status.
  - > If no: purchase additional item from ZOLLER or the machine manufacturer.

| 1. Siemens control type | 2. Software status of Siemens control                                                                                                                                           | 3. Version status of OPC UA version on Siemens control <sup>1</sup>                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Siemens SINUMERIK ONE   | <ul style="list-style-type: none"> <li>■ SINUMERIK ONE (all)</li> <li>■ SINUMERIK 840D CNC 4.95</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>■ &gt; 3.1 SL</li> <li>or</li> <li>■ ZOLLER item no.: 8708260</li> </ul>                       |
| Siemens 840D SL         | <ul style="list-style-type: none"> <li>■ SINUMERIK 840D SL SIN 828D</li> <li>&gt; SW 4.5 SP4<sup>2</sup></li> </ul>                                                             | <ul style="list-style-type: none"> <li>■ &gt; 2.2 SL</li> <li>or</li> <li>■ ZOLLER item no.: 8708261</li> </ul>                       |
| Siemens HMI Advanced    | <ul style="list-style-type: none"> <li>■ SINUMERIK 840D pl HMI Advanced</li> <li>&gt; SW 6.3.18 or 7.2.18 and PCU50</li> <li>(PCU Base &gt; V 7.5) OS &gt; WINXP SP2</li> </ul> | <ul style="list-style-type: none"> <li>■ &gt; 1.3 HMI Advanced (powerline)</li> <li>or</li> <li>■ ZOLLER item no.: 8708262</li> </ul> |

- 1 Only to be checked if an OPC UA server has already been installed on the Siemens control. The OPC UA server must then not be obtained from ZOLLER. In this case the ZOLLER »zidCode 4.0«-Siemens interface is sufficient.
- 2 Version name of Siemens control: 4.05 SP 04. This corresponds to version 4.5 SP4.

For further technical specifications please refer to document **Technical Description »zidCode 4.0«**.