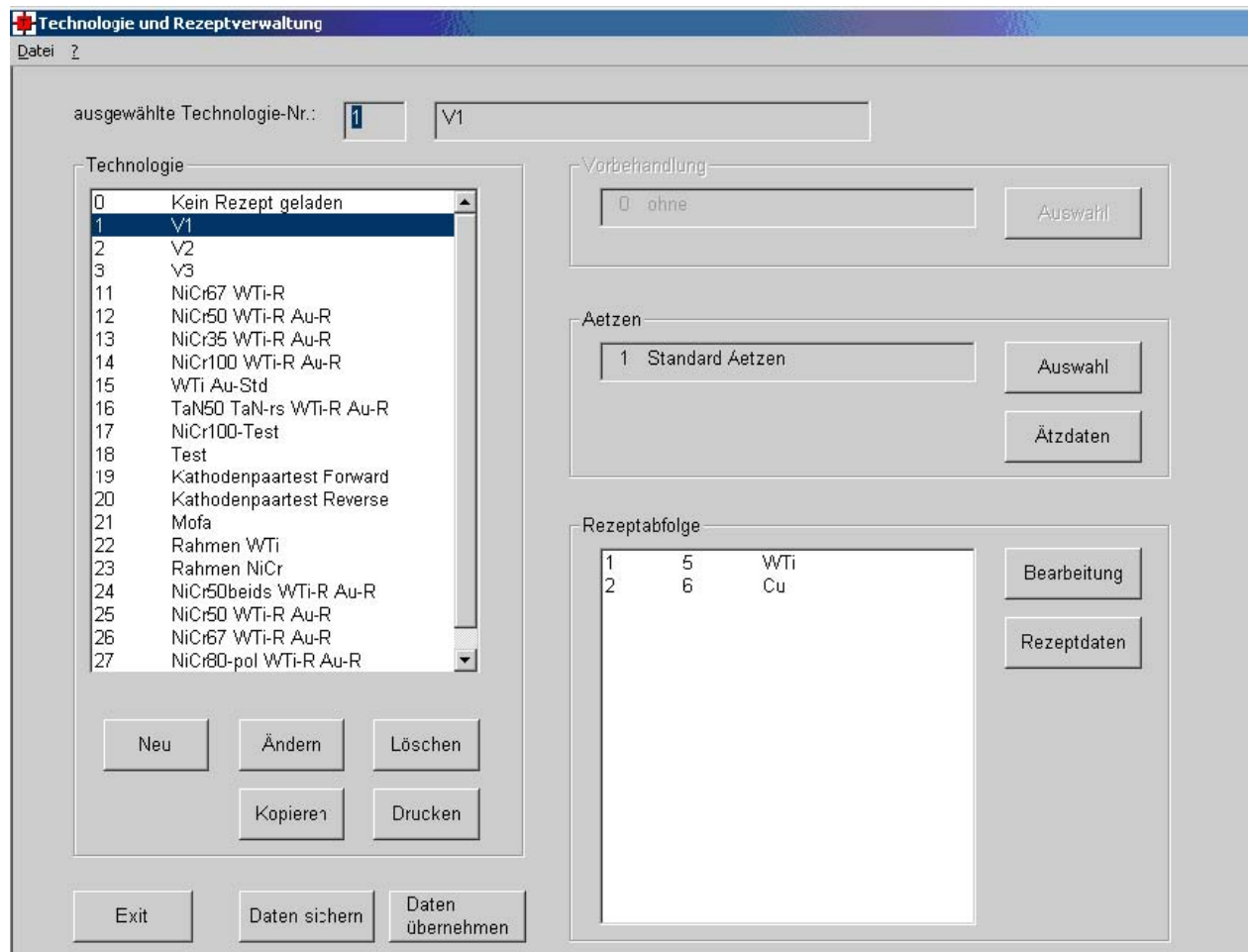


## WinCC-Addon: database connection

The HMI program WinCC from Siemens is enhanced by adding several executables and DLL's. These are programmed in Microsoft Visual C++ Vers. 6.0 - MFC. Coupling is with ODBC. Because of the special needs of recipe administration in deposition machines, we designed a special user interface to take care about that. The structure of the full scale system is: technology, batch and recipe. The recipe is the layer definition, the batch is the definition of the several layers, the technology is the complete product, if the machine has more the one chamber.

### Example of batch



## Example of recipe

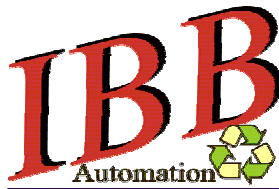
The screenshot shows a software window titled "Rezept - Bearbeitung". At the top, it displays "ausgewählte Rezept-Nr.: 1" and "Kathodenpaar 1 Harry". Below this is a list of recipes, with "1 Kathodenpaar 1 Harry" selected. To the right, the "Sputtern" parameters are configured: Startdruck [mbar] is 2e-005, Zeit[s] is 30, Vorschub [m/min] is 1.5, and Oszillationen is 2. There are two columns for current settings: "Vor." and "Prozess". For "Strom SSV1 [A]", both are set to 2.1. For "Kathodenpaar", the "1/2" option is selected. For "Strom SSV2 [A]", both are set to 2.1. Below the sputtering parameters is the "Prozessgas [sccm]" section, with two rows: "1 Ar" at 50 sccm and "2 N2" at 0 sccm. At the bottom, there are buttons for "Zurück<", "Drucken", "Löschen", "Kopieren", "Neu", "Ändern", "Übernehmen", and "Abbruch".

Sputtern	
Startdruck [mbar]:	2e-005
Zeit[s]:	30
Vorschub [m/min]:	1.5
Oszillationen:	2

	Vor.	Prozess
Strom SSV1 [A]:	2.1	2.1
Kathodenpaar:	<input checked="" type="checkbox"/> 1/2	<input type="checkbox"/> 3/4 <input type="checkbox"/> 5/6
Strom SSV2 [A]:	2.1	2.1

Prozessgas [sccm]	
1	Ar 50
2	N2 0

the data is printable and could be saved on external drives. For evaporators, we have a special module the take care about a convenient handling of lo/hi layers.



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