

### Available unit data

| Unit | Number of rollers (-) | Lower limit of straightening range (mm) | Upper limit of straightening range (mm) |
|------|-----------------------|---|---|
| PR   | 7                     | 1.50                                    | 3.00                                    |
| PR   | 7                     | 3.00                                    | 6.00                                    |
| PR   | 7                     | 0.50                                    | 0.90                                    |
| PR   | 7                     | 0.90                                    | 1.50                                    |
| PS   | 7                     | 1.50                                    | 3.00                                    |
| PS   | 7                     | 3.00                                    | 6.00                                    |
| PS   | 7                     | 0.90                                    | 0.90                                    |
| PS   | 7                     | 0.90                                    | 1.50                                    |
| RA   | 7                     | 2.00                                    | 3.50                                    |
| RA   | 7                     | 3.50                                    | 6.00                                    |
| RA   | 7                     | 5.00                                    | 7.00                                    |
| RA   | 7                     | 7.00                                    | 9.00                                    |

### Wire data

Diameter (mm)

Yield point (MPa)

Modulus of elasticity (MPa)

Fluxin bend radius (mm)

Curvature (1/mm)

SAVE

EXIT

SimDATA V. 1.0 4/2001 M. P.

### Specified straightening unit

### Adjustment

|  |   |
|--|---|
| Roller 2 (mm) <input type="text" value="2.250"/> | Roller 8 (mm) <input type="text" value="0.000"/>  |
| Roller 4 (mm) <input type="text" value="0.914"/> | Roller 10 (mm) <input type="text" value="0.000"/> |
| Roller 6 (mm) <input type="text" value="0.400"/> | Roller 12 (mm) <input type="text" value="0.000"/> |

### Profile

### User interface to calculate the roller settings for straightening units

According to WITELS-ALBERT's latest research results the company now manufactures straightening units which are available with different degrees of automation. One revolutionary new item is the software **SimDATA 1.0** for the set up of different types and sizes of straightening units. Depending on the process material's properties (wire diameter, yield point, modulus of elasticity) and the geometrical boundary conditions of the specific unit, the software calculates the necessary roller settings to produce a defined final product quality.

Using the calculated data in the daily routine of setting up roller straightening units saves labor, time and process material. For the first time **SimDATA 1.0** opens up the possibility to eliminate the empirical or trial and error adjustment method.