SURE32 grinding system
based on a CNC Sinumerik 840D

SURE32 is a highly efficient control system of roll grinding machines – developed by Vosswinkel based on decades of experience. The system originated and further grows to do justice to the demands of the practise:

- grinding of rolls with any highly accurate profiles.
- calculation any ball forms up to and including CVC - curves
- pre-, finish , and precision machining of work and backup rolls
- grinding of cylindrical and hollow and spherical cambered rollers
- grinding tapered roll neck
- grinding of rolls with chocks
- measurement of the ground roll in the grinder
- surveying online, during grinding or offline (that is, after completion of the grinding process)
- logging of the entire grinding process
- numerical and graphical documentation of the finished ground roll barrel
- easily create the grinding programs via universal cycles
- various functions such as grinding surface grinding, taper grinding, plunge grinding, screw grinding, cone grinding
- creating and Enabling bed path corrections
- align the roller in the machine using the probes
- grinding wheel Management
- curve programming and management
- linear, circular and diameter measurement
- automatic or manual putting on of the probe to the roller
- measure with target- curve comparison and representation of a tolerance curve
- calculate and grinding of the correction curves from target - actual - comparison
- consideration of factors such as machine bed errors, errors due to temperature and roll weight, as well as errors of the infeed by machine geometry and possible misalignment of the roll
- create the machine documentation
- user-friendly screens for service, setting and commissioning
- on-site commissioning and operator training
- worldwide service of the control system