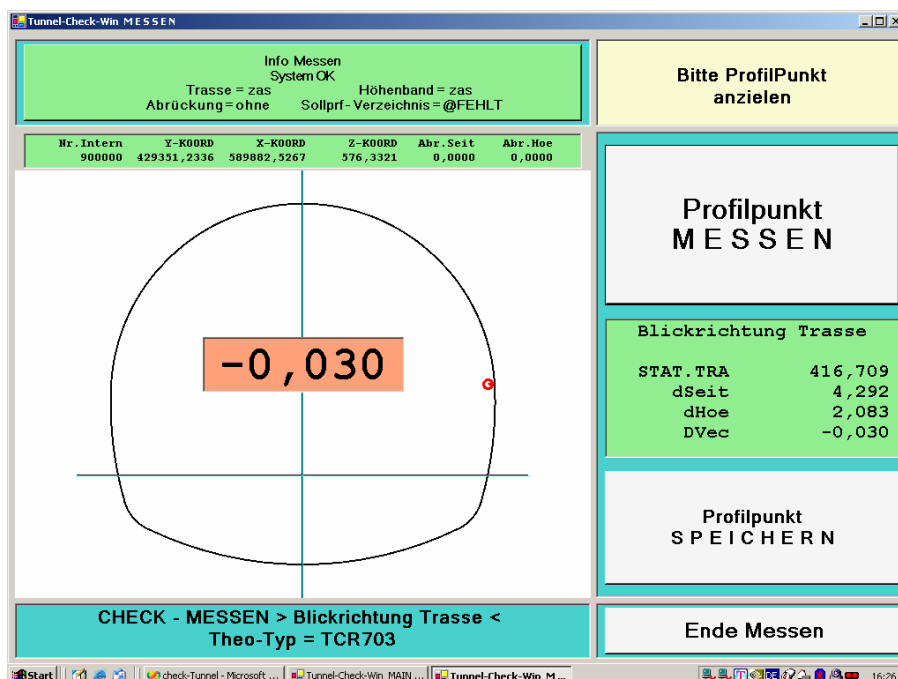


TUNNEL - CHECK-06

TUNNEL-CHECK-06 is the windows version of the well known tunnel control System TUNNEL CHECK. In real time you will get the deviation to the designed geometry.

What you get:

- TUNNEL-CHECK-06 **measures and calculates a free station without input of point numbers.** (patent pending)
- TUNNEL-CHECK-06 checks the cross - section of your tunnel and shows in real-time the deviation between the measured point and your reference profile. (p.e. Excavation, shotcrete, inner lining)
- TUNNEL-CHECK-06 stores data of these measurements. The plot program sorts these points to the referring cross section and creates profiles.





What`s to be done:

First you have to measure a „FREE STATION“. There is no need to input point numbers. You just aim to some fixpoints and the system will calculate the free station.

Next the point to be checked has to be aimed with the laser spot.

The deviation between the reference (designed) cross-section and the measured point is shown in graphic and numeric data.

For the calculation the horizontal- and vertical alignment and the reference profiles are necessary.

Possible curves for the designed horizontal centerline are:

radius, transition curve, straight line

Possible curves for the designed vertical centerline are:

radius, straight line

Possible curves for the reference cross - section are:

radius, straight line

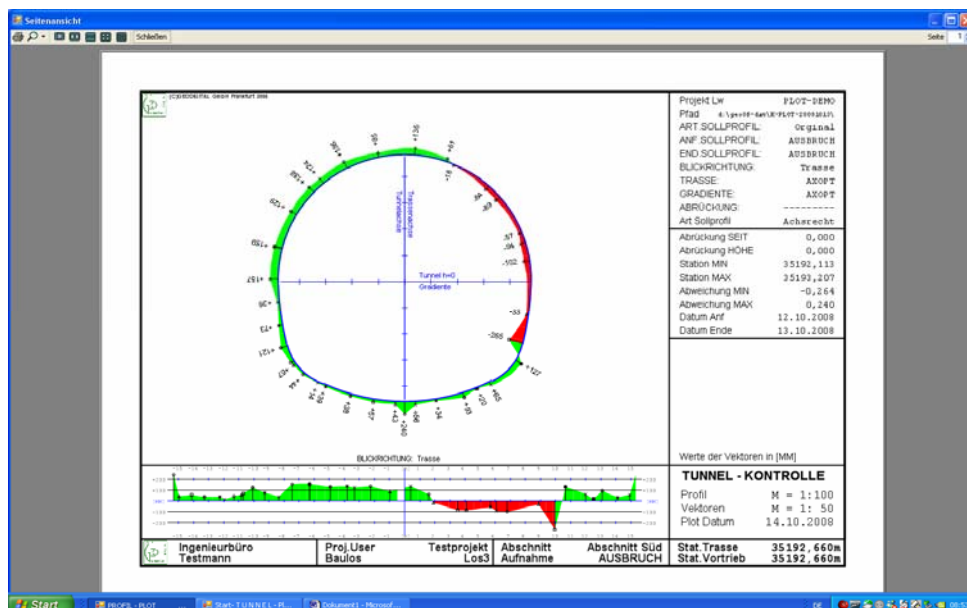
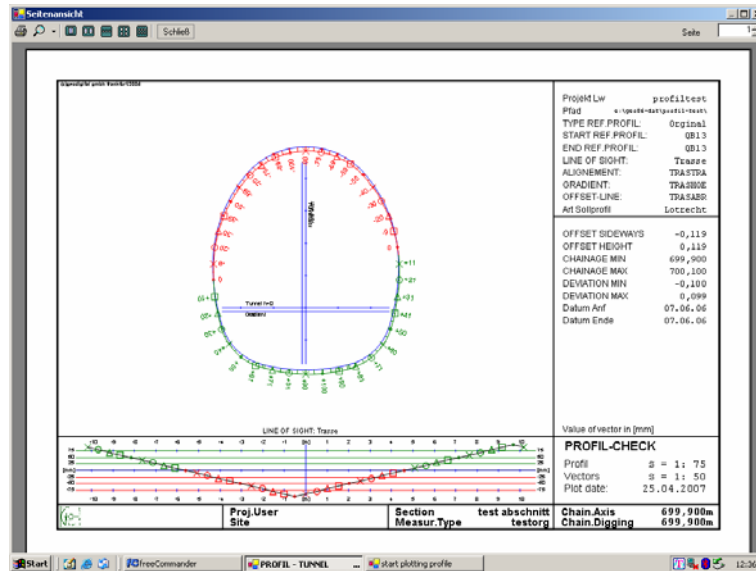
If the profile widens from one chainage to the next this change is taken into consideration during calculation.

Results:

You will get the radial deviation in real time, so the digging stuff knows immediately where to correct.

The human interface can be switched between German and English .

Post processing you will get profile plots in several varieties similar to the enclosed plots.



Optionen:
 shaft version
 stake out of segment joint
 stake out of radial anchors

As optimized adaption of a PC to the theodolite the THEO-PC is available.

