

# tacs News



Edition - June 2005

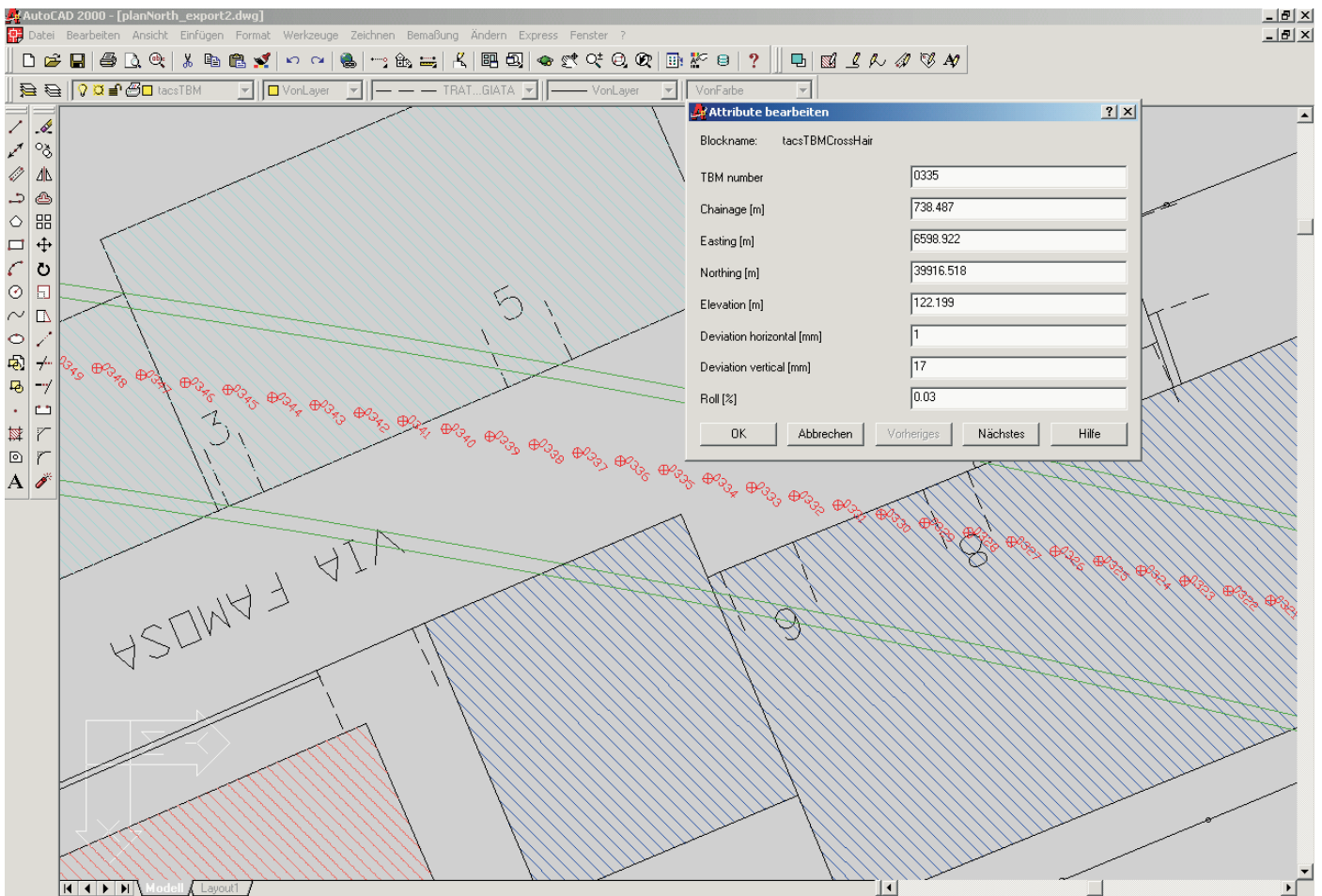


## RETC

It's that time again: We're exhibiting at the RETC show in Seattle! If you have a chance, please visit us at **Booth 310**, and have a look at our latest developments and innovations.

**Rapid Excavation and Tunneling Conference**  
June 26-29, 2005, Seattle, Westin Hotel  
1900 Fifth Ave, Seattle, Washington, WA98101

## Export to AutoCAD



**tacs** Guidance System exports TBM Position and Ring Position data into AutoCAD drawings - in this case the Plan View

For the past two years the **acs** guidance system software has supported the **Plan View** and **Geological Profile** information windows, with great success on several projects.

These displays process ordinary AutoCAD drawings and show the actual position of the TBM within the drawings.

New feature allow you to export directly into AutoCAD drawings.

In the AutoCAD drawing a point marker is inserted for each erected ring and for each TBM position at the end of the stroke. The point markers for rings and TBM positions are located on separate layers, which makes it easy to switch the layers on and off and to see only the data, you are interested in.

Connected to each point marker is a set of attributes. You can easily look at the attributes of each ring or TBM position using standard AutoCAD functions.

For each **ring** the following attributes are supported:

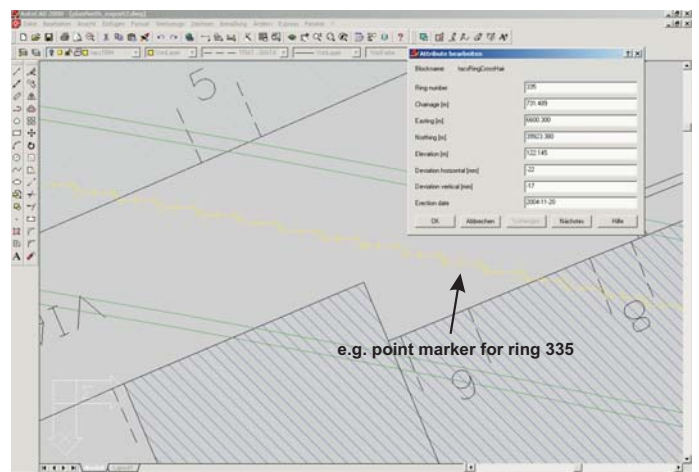
- Ring number
- Identifier for the ring (showing the position of the key segment)
- Chainage at the leading edge
- Coordinates at the leading edge (Easting, Northing, Elevation)
- Horizontal and vertical deviation from the DTA (Designed Tunnel Alignment)
- Date and time of ring erection

For each **TBM position** the following attributes are supported:

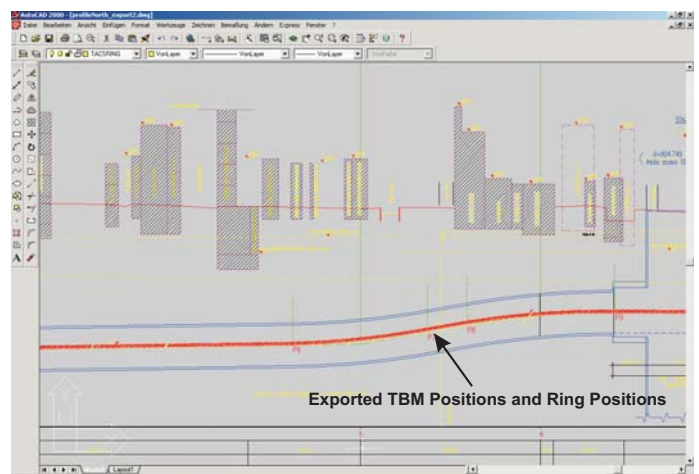
- Advance number
- Chainage at the cutter head
- Coordinates at the cutter head (Easting, Northing, Elevation)
- Horizontal and vertical deviation from the DTA (Designed Tunnel Alignment)
- Roll and Pitch of the TBM

Depending on the project, various **machine-data** can be supported:

- Average advance rate
- Maximum and average total propulsion thrust
- Maximum and average cutter head rotation speed
- Maximum and average cutter head torque
- Total excavation time
- Maximum and average current consumption



Export into Plan View - ring layer visible



Export into the Geological Profile (Longitudinal Profile)

It is possible to customize the categories for special requirements.

The AutoCAD platform provides engineers with a familiar environment for data access and navigation. The link between the **acs** Guidance System and AutoCAD is the next step towards making excavation data more readily accessible.

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