

Strip Shape Simulation Program For Cold Rolling Mills

Flat Rolling Simulation





Mill ID **CPCM** No of Stands **5**
Product ID **D&I** No of Coils **10**

Simulation Option

- 3D shape simulation
- Yield stress ridge (valley) effect simulation
- Entry profile ridge (valley) rolling simulation
- Work roll crown ridge (valley) effect simulation
- Thermal simulation

Date **Fri, Mar 03, 2006**
Time **9:34:35 AM**

Working directory **Z:\3290_quad\FlatSim**

SIM Setup **SIM Run** **Mill Config** **Process Info** **Display** **Help**

Features

Three Dimensional Simulation

Capable to Simulate Single Stand Reversing Cold Mills, Tandem Cold Mills and Fully Continuous Cold Mills (Couple To Pickle Line)

Simulate Multi-coil Lineup in a Run

Fully Integrated Models of Strip Three Dimensional Deformation Model, Roll Stack Deformation Model, Roll Thermal Crown Model and Residual Stress Model

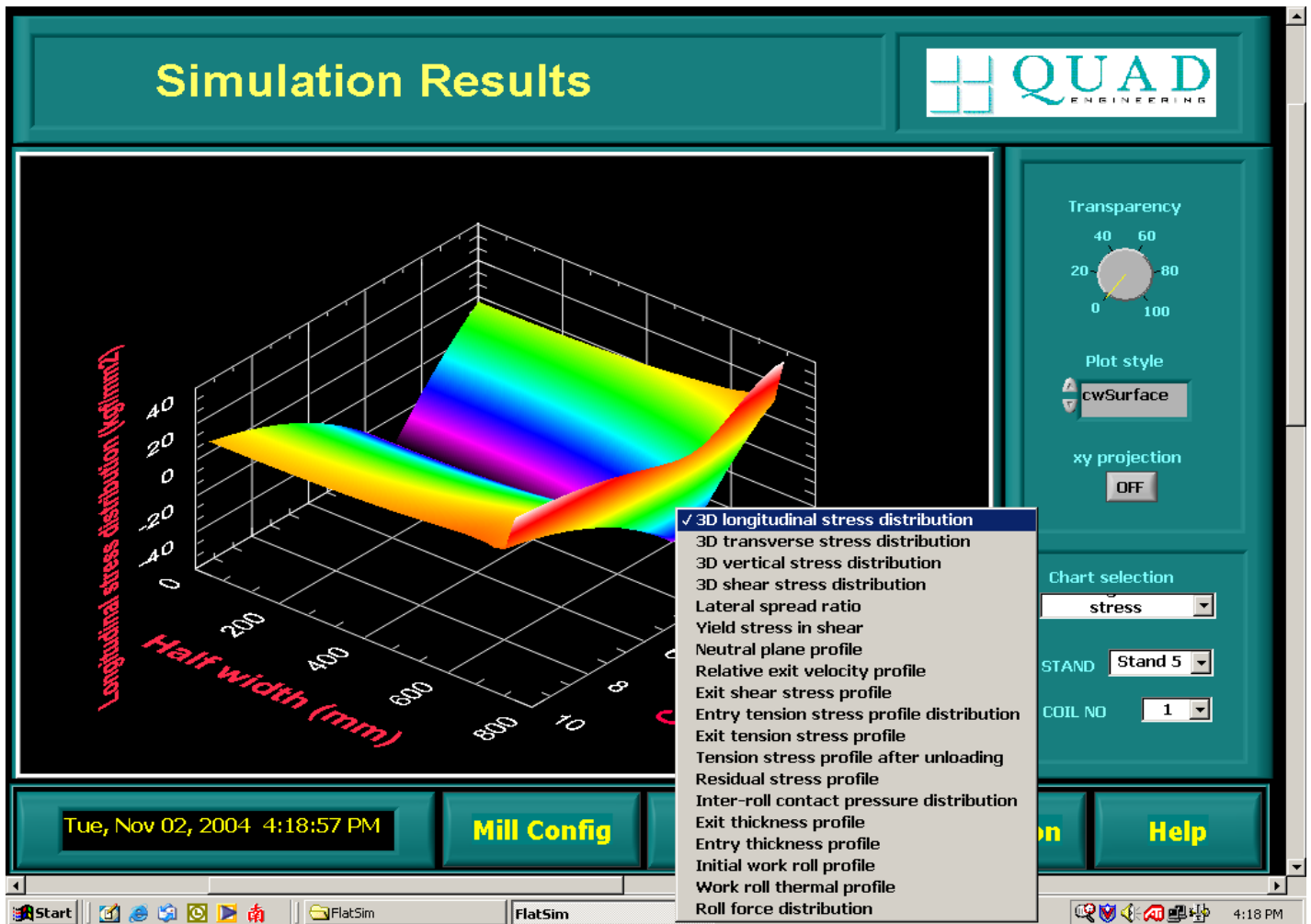
Capable to Simulate the Effects of Hot Band Ridge, Yield Stress Valley and Work Roll Crown Ridge

User Friendly



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Main Results

Three Dimensional Stress Distribution in Roll Bite

Lateral Spread

Roll Force Distribution

Inter-roll Contact Pressure Distribution

Exit Strip Profile

Entry and Exit Tension Distribution

Residual Stress Distribution