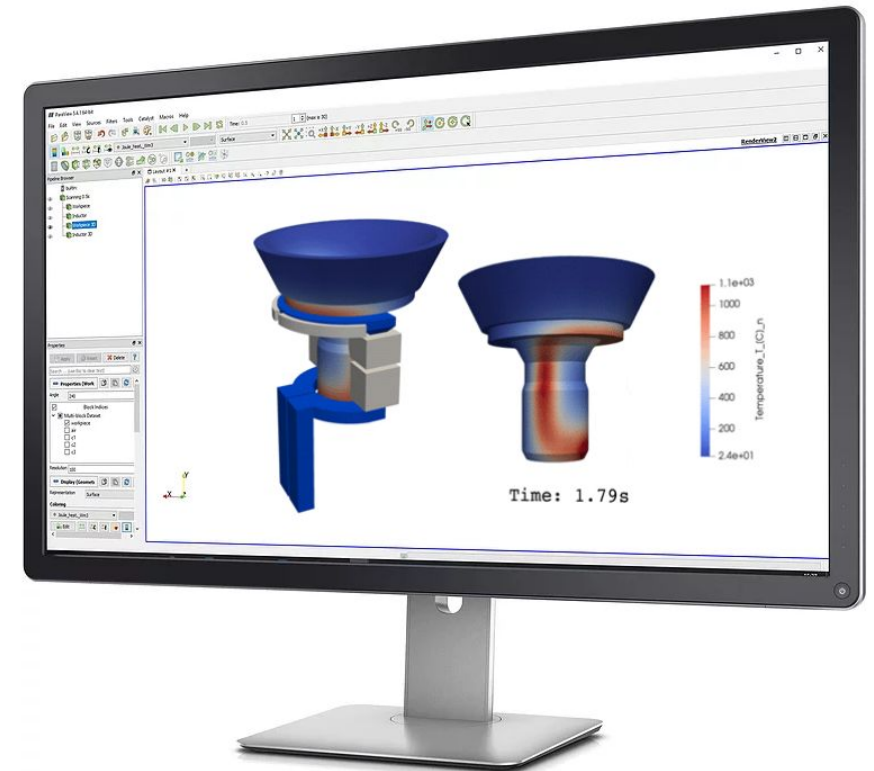


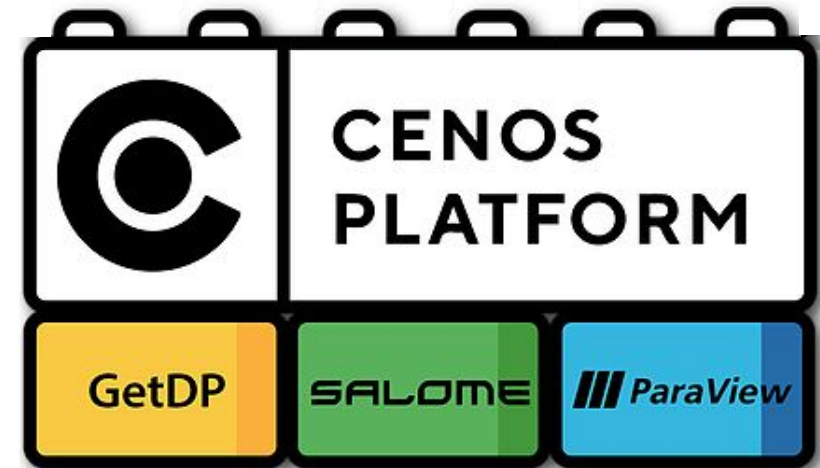


# Induction Heating Simulation Software

- > the most cost-efficient
- > the only one that's focused on induction heating applications

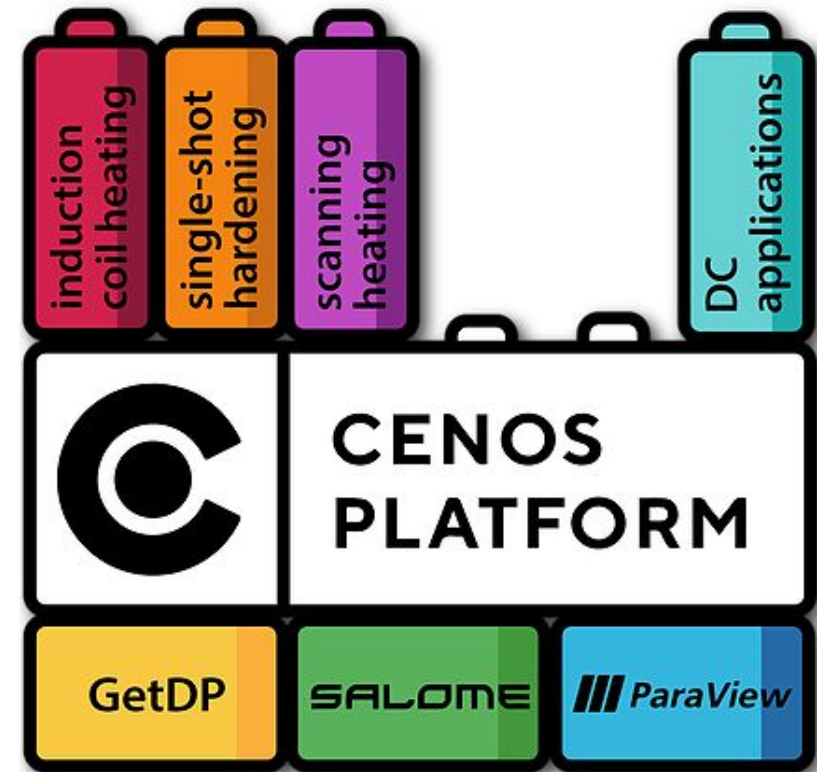


While traditional simulation software companies focus their development resources on calculation algorithms, we use the best of **open source tools & algorithms** and implement them into **one cost-efficient platform** while focusing our development on making **simulation easier than ever**



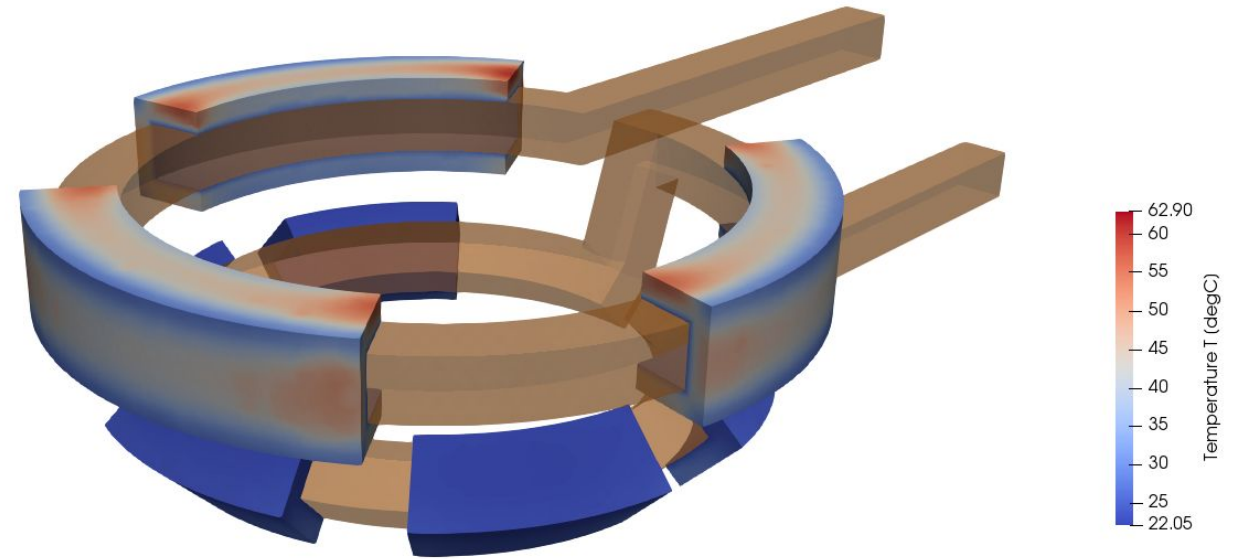
Open source tools are being developed by communities of scientists at the World's top universities and research centres accumulating decades of scientific knowledge and ensuring implementation of cutting edge technologies

CENOS platform builds separate environments for various engineering applications keeping focus on relevant functionality. Therefore, a **beginner can run his/her first simulation in under 30 minutes**, and become a pro user after 1-2 weeks of self-training



There is a common misconception that simulation software requires only specially educated (and well paid) simulation engineers, usually hired only for one kind of tasks - simulation. This is definitely true for sophisticated multi-physics simulation software packages. CENOS keeps focus on induction heating and contains a variety of automated procedures trying to avoid any unnecessary functionality which might confuse inexperienced users.

CENOS saves up to 80%\* of engineering design time and costs due to replacement of physical prototyping and lab testing with computer simulation



\* Verified by our customers:

**HIMMELWERK**  
Induction. Heating. Solutions.

**ELOTHERM**  
SMS group

**INDUCTOHEAT  
EUROPE**  
An Inductotherm Group Company

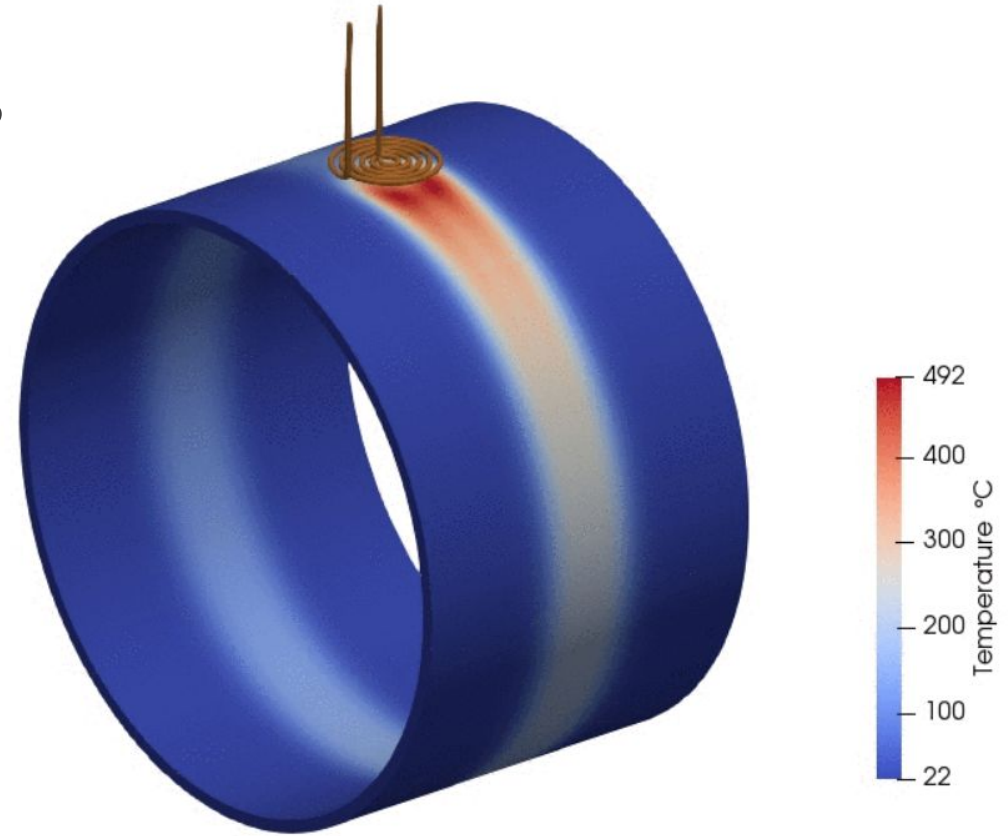


**NETZSCH**

**TERMETAL**

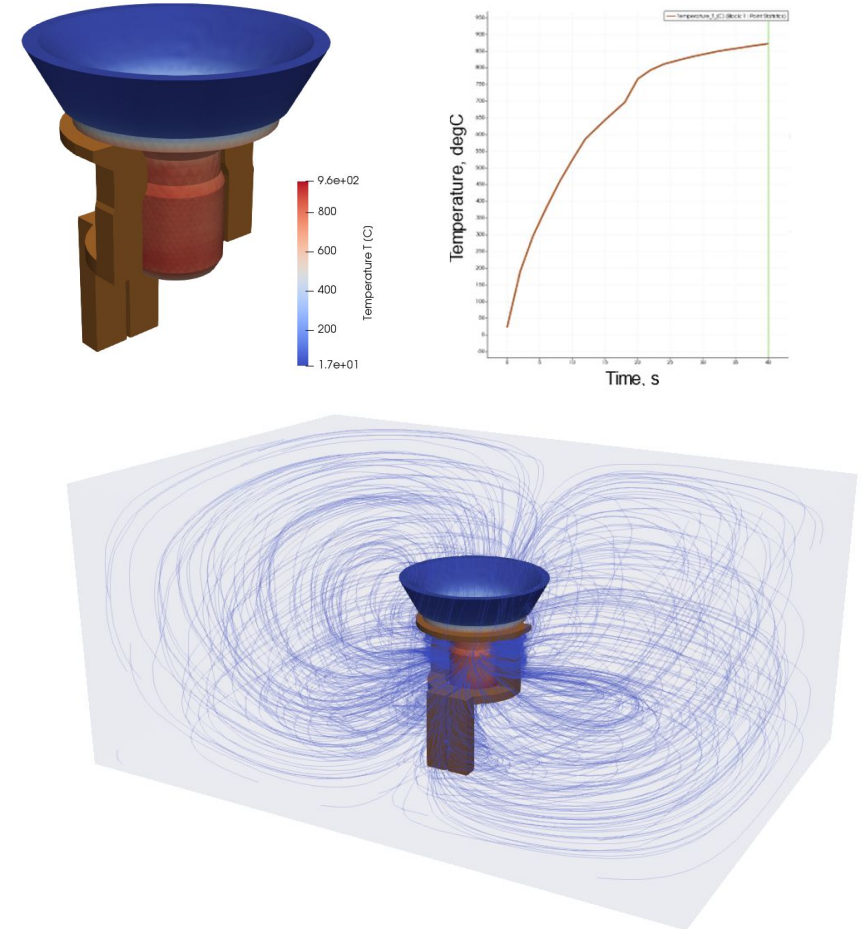
# Applications:

- Heating of steel billets / tubes / strips
- Scanning heating / hardening
- Single-shot hardening
- Full range of 2D / 3D cases
- Inductor & flux concentrator analysis
- Power supply matching
- High frequency applications (surface impedance algorithm)



# Powerful visualization toolkit:

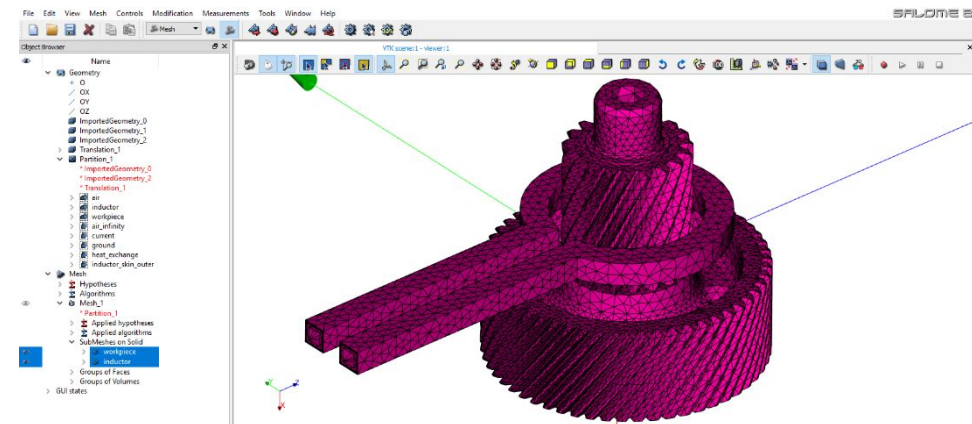
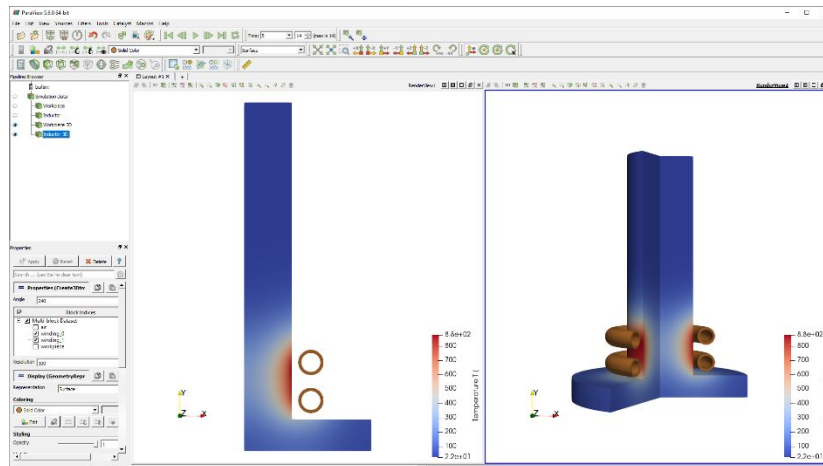
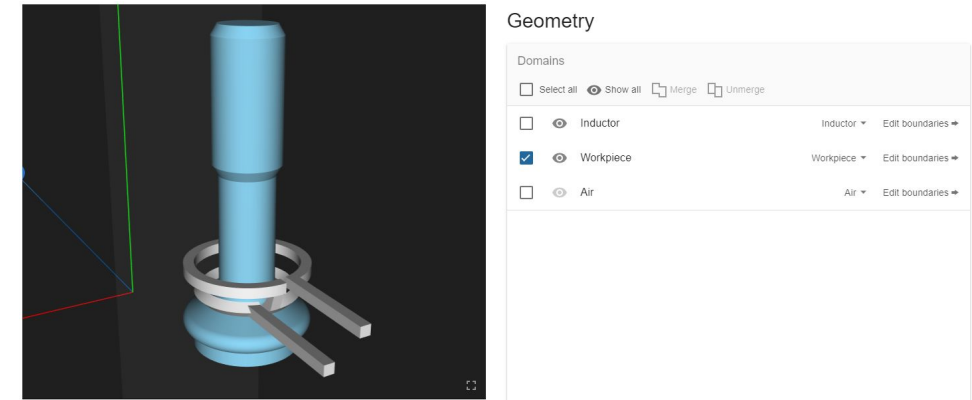
- Fields: temperature, current density, magnetic lines
- Temperature over time
- Temperature over selected line
- Hardening zone visualization
- Full energy statistics: active and apparent power, inductance, etc.
- Export video, pictures and data





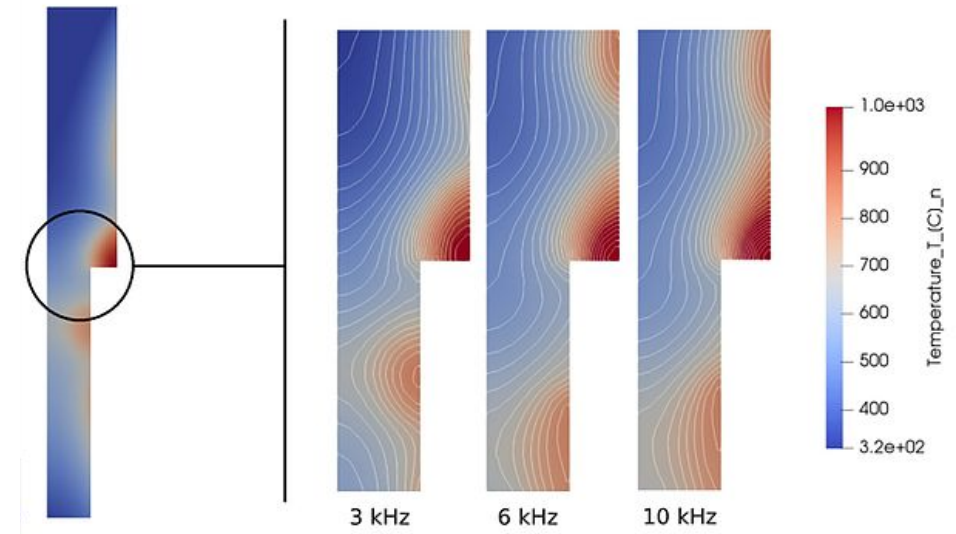
# Automated processing:

- 2D templates for the most frequently used geometries
- Automated processing of 3D CAD files (*step* and *iges* formats)
- Automated meshing



# Full range of physical settings:

- Editable material database
- Magnetic properties: B-H curve
- Temperature dependence (incl. Curie effect)
- Time dependent power / frequency control
- Cooling / quenching parameters





# Why CENOS is the best choice?

There are many simulation software applications available on the market, but CENOS is unique:

- It's the only one **focused on induction** with full range of relevant functionality
- exceptionally **fast to learn and easy to use** because of our focus on usability
- **the most cost-efficient** since it is powered by open source algorithms
- **fast development** supported by open source community

# Price plans

CENOS Platform - a desktop software for Microsoft Windows

If you are a student/researcher/teacher you can qualify for [FREE Academic licence - click here.](#)

## LITE

for engineers at smaller companies

**€250** per month

*Billed monthly*

Full functionality for induction heating

Price per user

Limited to 4 days of use per month

(extra days - \$250 / day)

Support via phone & email

Free onboarding training

[Download free trial](#)

[Request a quote](#)

## PRO

for frequent professional use

**€650** per month

*Billed annually*

Unlimited use

Price per user

Real-time support

Free onboarding training

[Download free trial](#)

[Request a quote](#)

## ENTERPRISE

for teams & multiple users

from **€1000** per month

*Billed annually*

Floating licence

Unlimited use

Support via phone & email by

dedicated simulation engineer

Free onboarding training

[Request a quote](#)



*Enabling affordable digital transformation in  
steel workshops and production plants across  
the World!*

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