



WBCInno

UNIVERSITY OF ZENICA



Mašinski fakultet

Katedra primijenjene mehanike

**SCIENTIFIC - RESEARCH AND PROFESSIONAL
GLOBAL ACTIVITIES**

- *Research*
- *Designing*
- *Development projects and studies*
- *Expertises*
- *Consulting*
- *Reviews*
- *Seminars and Educations*
- *Nostrification of technical documentation*

**120 INDUSTRIAL
PROJECTS
REALISED**

**Modernization of WBC universities through strengthening of structures and services
for knowledge transfer, research and innovation**

Implementation of series of scientific-research and professional work **for the needs of businesses/industry and those in the field of fundamental research**, such as:

- Measurement and analysis of stress and deformation (static and dynamic),
 - Measuring of shift, acceleration, force, pressure,
 - Measurement of residual stress with automatic and other principles,
 - Measurements based on impulse and strobe effects,
 - Ultrasound-waves tests,
 - Tests of wall thicknes,
 - Testing of equipment under pressure,
 - Numerical analysis of complex systems (static and dynamic),
 - Vibratory stress relief (VSR),
 - Research, design, development projects, expertise, consulting services, reviews ..
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EXAMPLES OF INDUSTRIAL PROJECTS

METALNO d.d. Zenica

VSR – Vibratory Stress Relieving



GS - TMT Novi Travnik

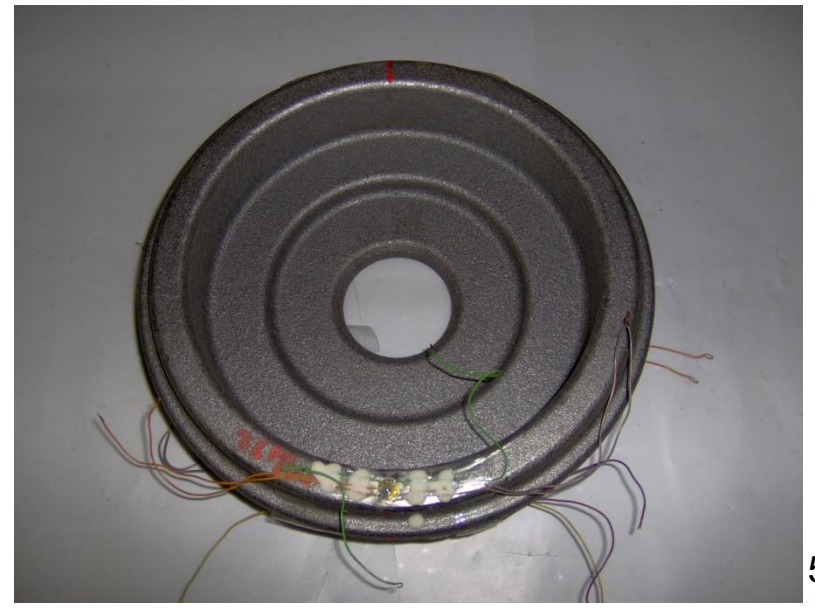
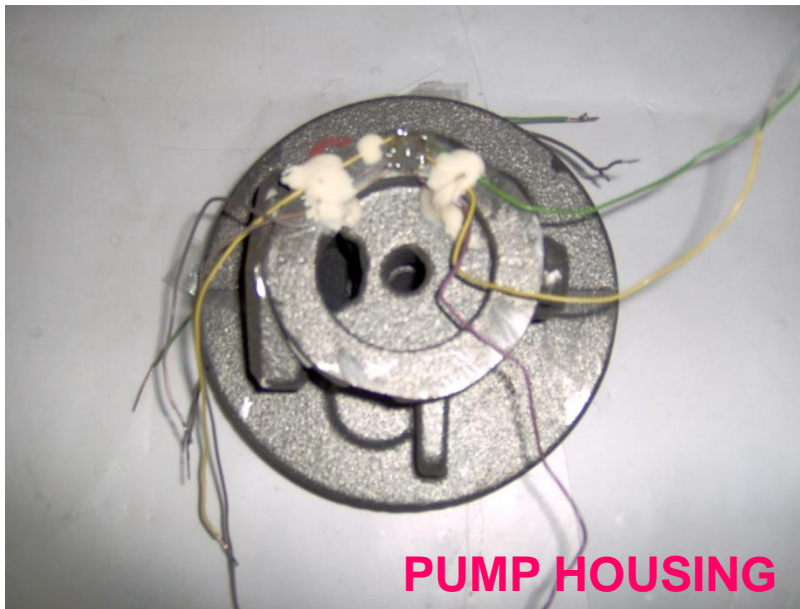
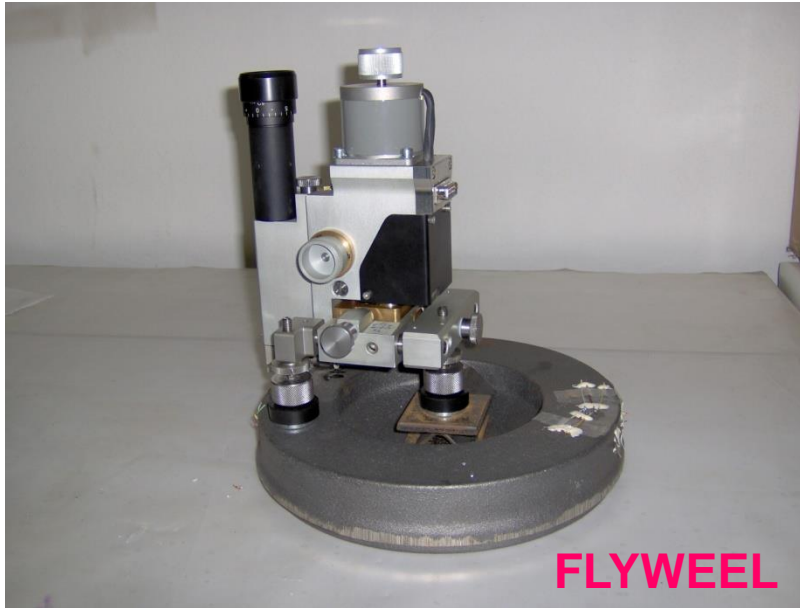
Two types of constructions:

- Vehicle basis frame,
- Tool holder in automotive industry



RESIDUAL STRESSES MEASURING

CIMOS





RMK Kakanj

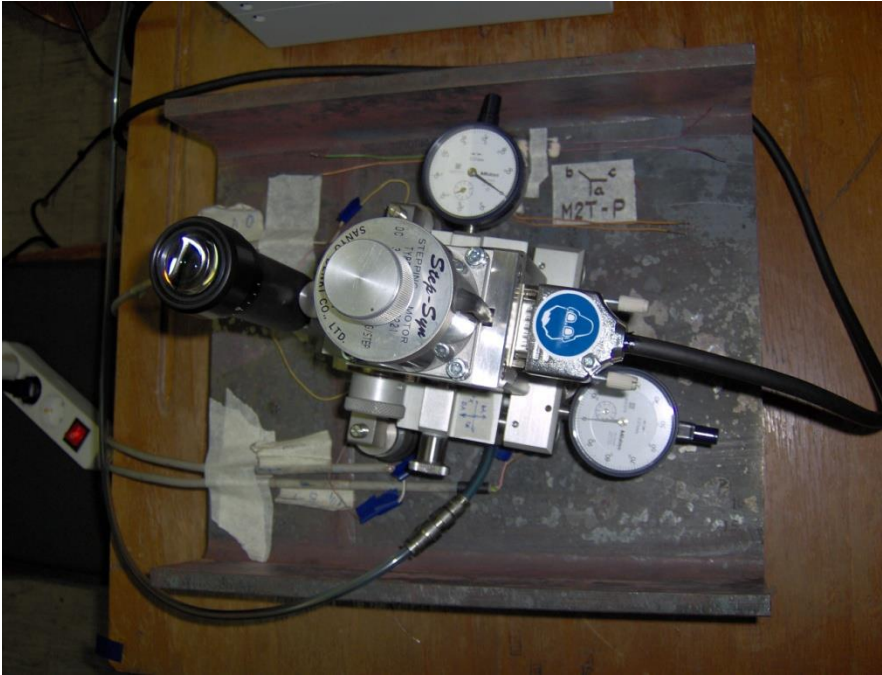
Residual stress measurement
at basic carrying plate of
Chain conveyor



PhD Research

VSR – Vibratory Stress Relieving

Residual Stresses



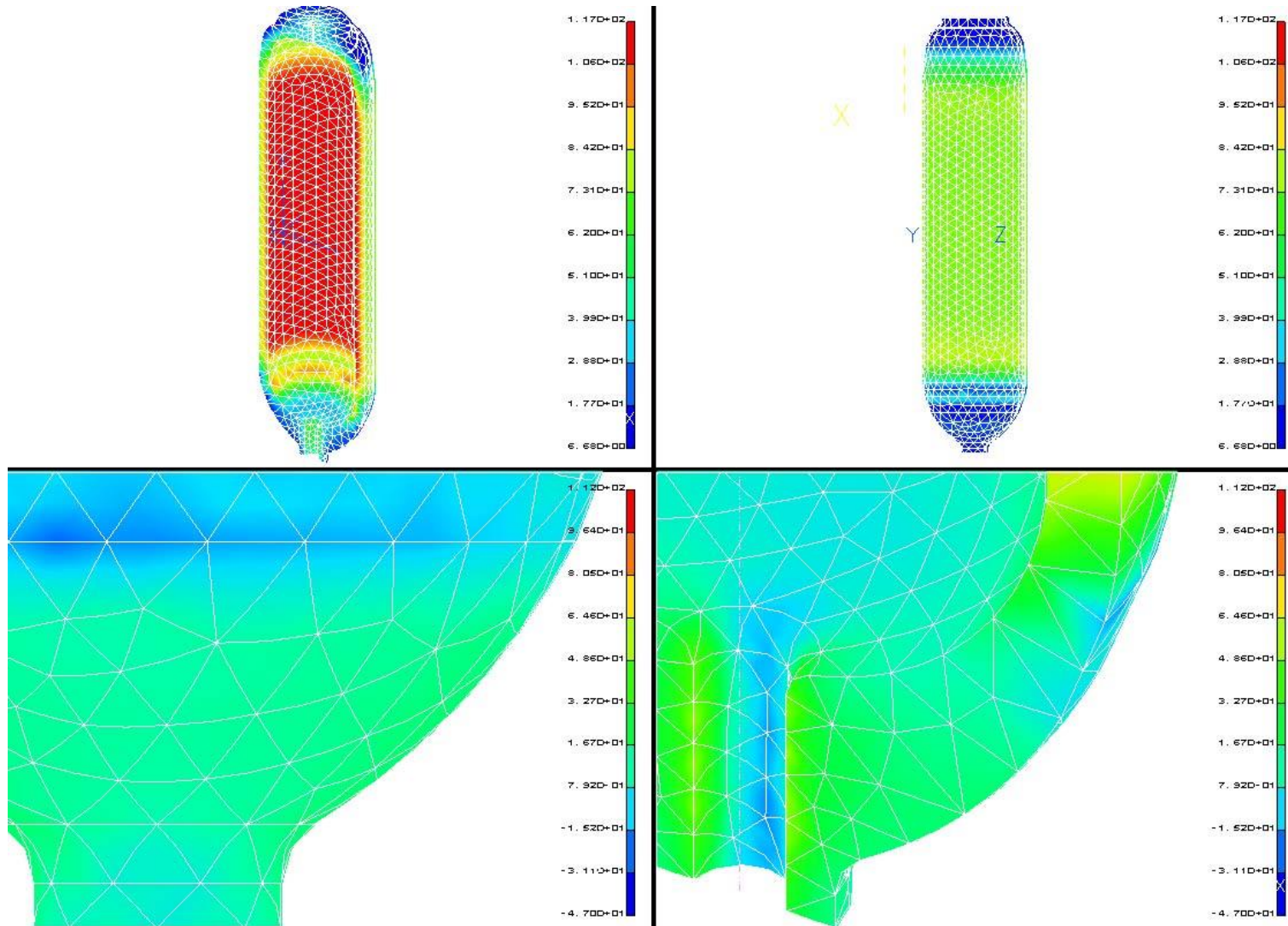
OIL TERMINAL – JANAF SISAK, CROATIA



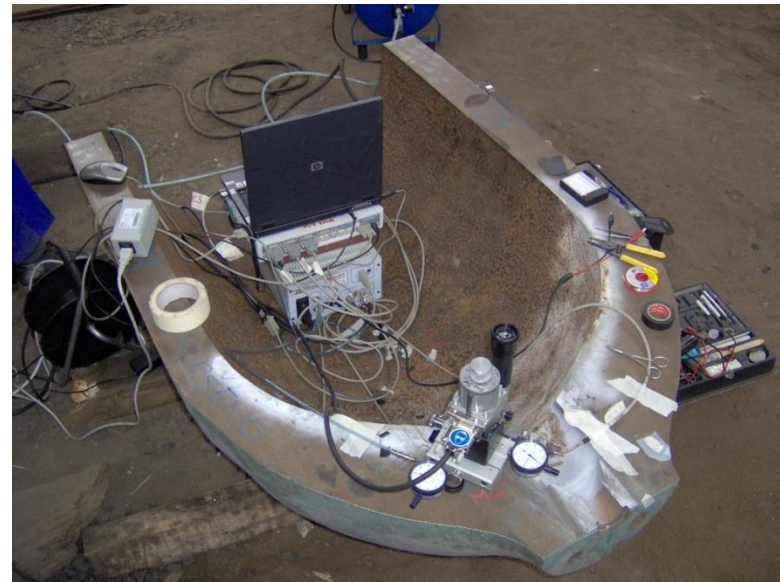
VSR application
RS measurement



INTEGRITY AND CONSTRUCTION LIFE ESTIMATION



FORGING DEPARTMENT AIR AND WATER VESSELS Arcelor Mittal



Coal surface mining - LUKAVAC



12/04/2012

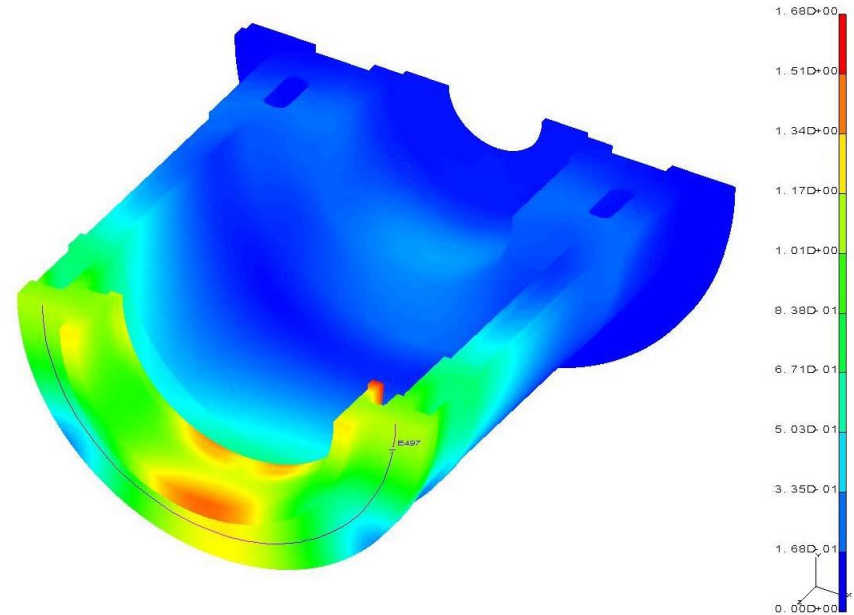
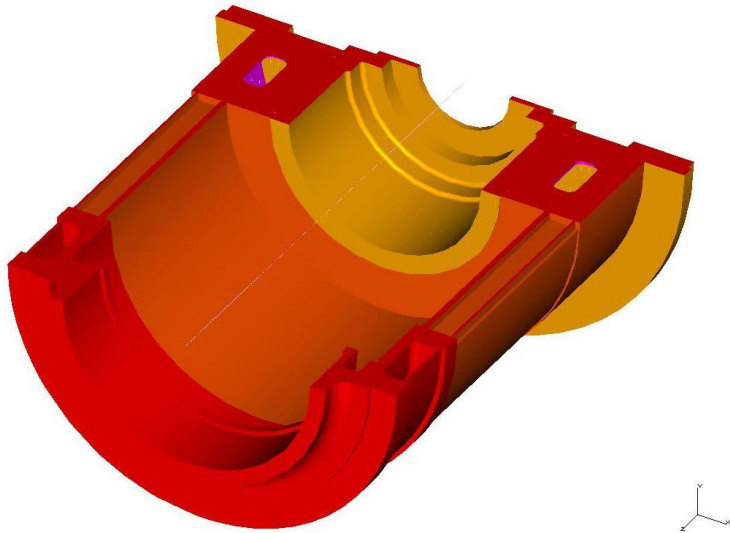
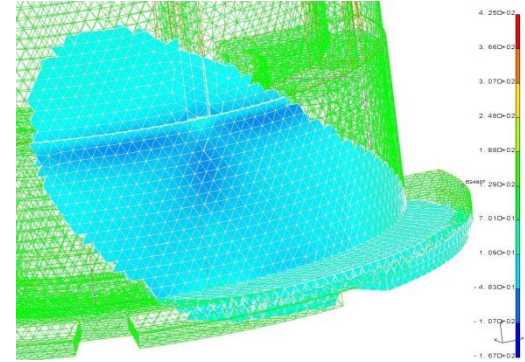


SPORTS HALL - LAKTAŠI

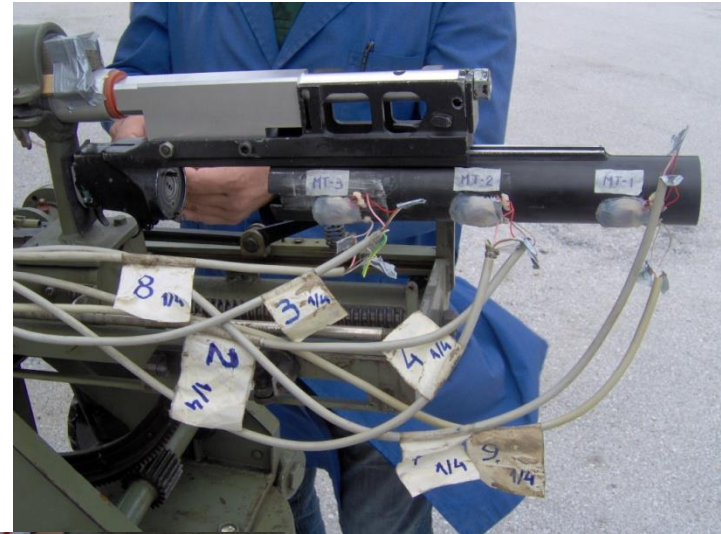




TARET TURNING TABLE ArcelorMittal



SCIENTIFIC AND RESEARCH

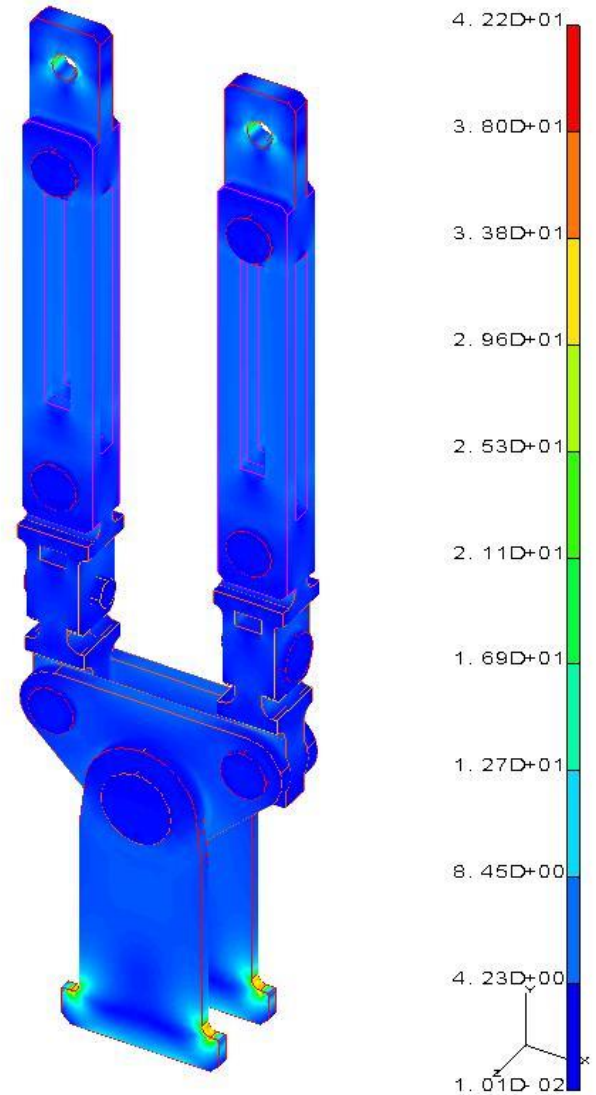


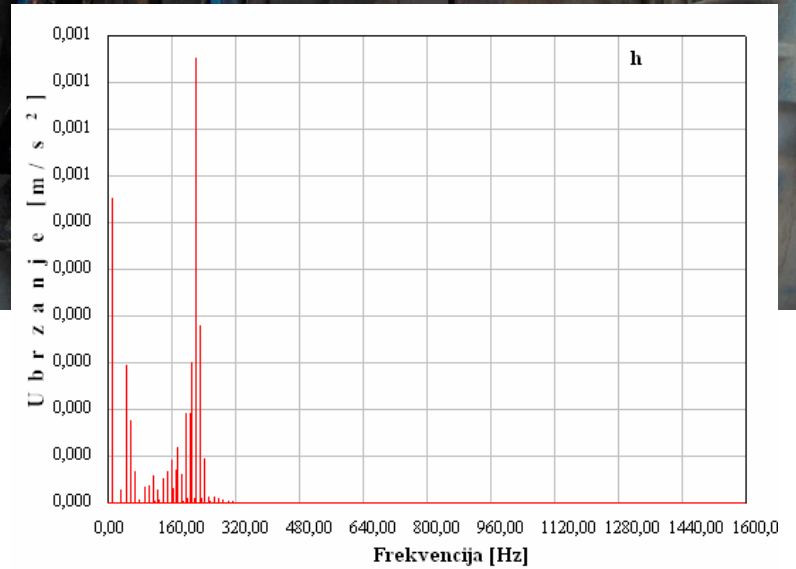
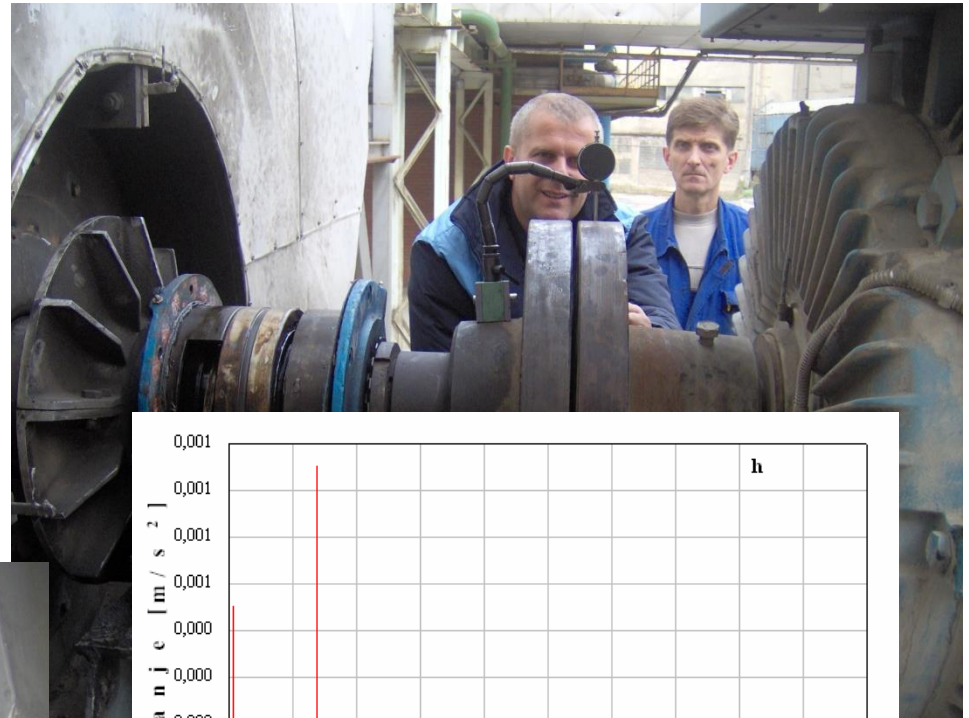
UNIS

PhD Research

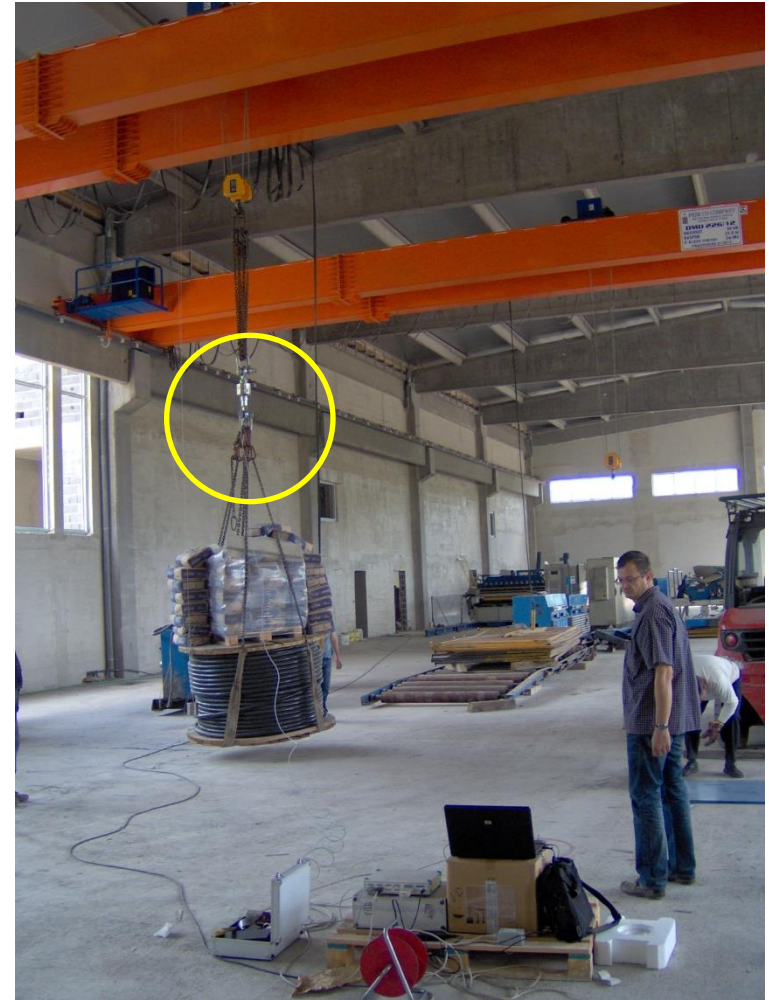
COAL MINE LIFTING SYSTEM

Master degree Research





ANALIZA VIBRACIJA NA DESNOM ODSISNOM VENTILATORU DIMNIH PLINOVA BLOKA BR.5 U TE KAKANJ



"TRANZITEXPORT" D.O.O. SARAJEVO

Bridge crane testing

CERTIFICATION OF CARS, BUSES AND VEHICLES

VEHICLES FOR WASTE TREATMENT

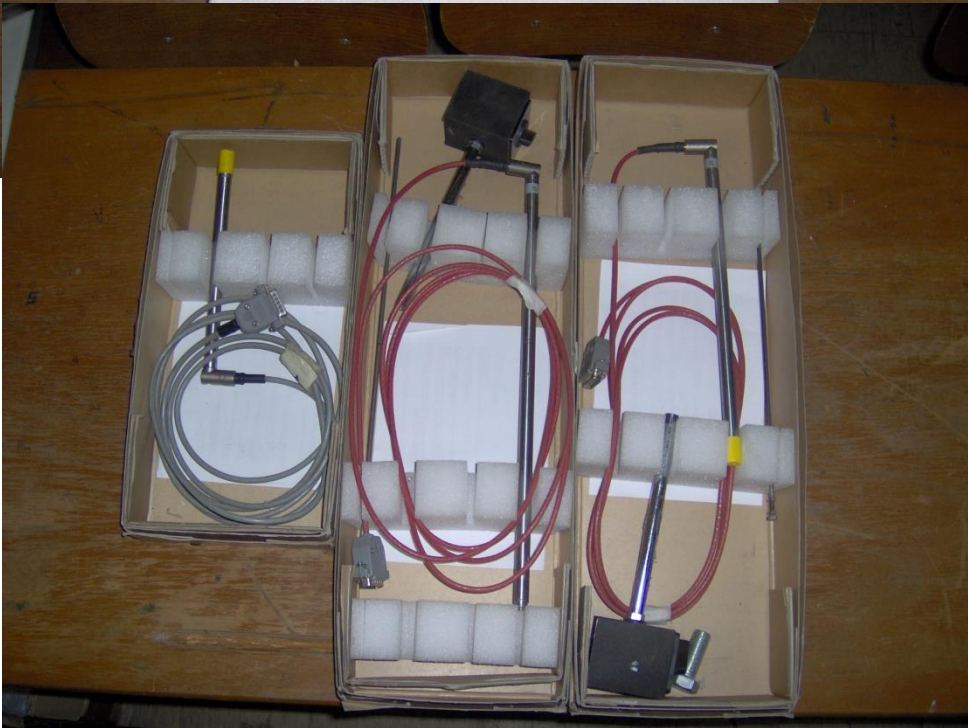


Arcelor Mittal – BELT CONVEYOR



SOME OF MEASUREMENT EQUIPMENTS







J – VALIDATION OF TECHNICAL DOCUMENTATION

LIST OF SOME PROJECTS VALIDATED:

DEDUSTING SYSTEM AT MIXER BOF STEEL MAKING DEPARTMENT:
KAPPA, Arbeitsschutz, und Umwelttechnik GmbH, **Austria**

SYSTEM FOR WATER SEALING OF ASCENSION PIPING SYSTEM AND
HYDRO INJECTION DURING COAL CHARGING AT COKE OVEN; **O.M.E.V.
s.r.l , ITALY**

RENEVABLE ENERGY USING FOR CENTRAL HEATING SYSTEM IN
NEMILA; EVECOCO Brno, s.r.o., Foltynova 17, 635 00 Brno, **CESKA
REPUBLIKA**, J.P. za prostorno planiranje i uredjenje grada Zenice

SCREWFEEEDER CHARGE CAR; John M Henderson, **UNITED KINGDOM**

WASTE WATER COLLECTING AND REFINEMENT IN BIHAĆ; LUDWIG
PFEIFFER Hoch - Und Tiefbau GmbH & Co.KG Kassel **GERMANY** i
Gradjevinski fakultet „Institut za hidrotehniku“ Sarajevo

UNIVERZITET U ZENICI
MAŠINSKI FAKULTET U ZENICI
Katedra za Mehanike

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