

Agitation & Mixing Systems

Engineering Development & Tailor Made Equipment

شرکت کانی فرآور کاسپین

Caspian Mineral Processing Eng. Co

Who we are?

MIN-TEC in Brief

Caspian Mineral Processing Engineering Company (under trade name MIN-TEC) established in 2009 by a group of qualified engineers with many years work experiences in copper & iron mine industries of Iran. MIN-TEC objective plans providing engineering, manufacturing and procurement services as an engineering, consultant or Integrated Project Management Solutions.

MIN-TEC stockholders have sufficient experiences in several the mining projects of Iranian huge mineral processing plants.

Within the years of the hi-level projects experiences, our management team learned how to serve to the clients and meet their requirements.



[Process Engineering](#)

[Equipment design](#)

[Equipment Supply](#)

[Our Workshops](#)

Our View/ Our Philosophy

World Class Engineering Services, Best Solution for More Efficiency with Qualified Experts and Engineers

We are focused on providing Integrated & Tailored Solutions to our clients across four main services ; Engineering design Services, Mineral Processing Engineering, Equipment Supply and Specialist Engineering services. Let us help you achieve your business goals through our Tailored & Integrated Solutions.

We plans to be a well-known in mineral processing equipment supplying company and try to find and develop the newest technology in our field as we want to show " WE KNOW HOW".

MIN-TEC's plans have been identified in the following priority policies:

- Right recognize our client requirements.
- Well-organized engineers and staffs to present best services.
- Continuous Improvement and development in all levels of MIN-TEC's staffs .
- Develop of cooperation with well-known companies around the world to share abilities.

We believe to catch the above priority policies, effective cooperation and all engineers and staffs have to act in this manner.

Director Manager is responsible to accede the mentioned goals and right recognize and execute the policies. Also our policies will checked and revised by management commission.

Management Team



Abbas Alibakhshi

Director Manager , CEO

- Mechanical Engineer
- Designer of Copper and Iron Plant
- Lime Plants
- Steel Plants
- More than 28 years Experiences



Ms. Nazanin Tayebi

Control Project Manager , Board Member

- Co-founder
- Industrial Engineer
- Project Control Expert
- More than 15 years Experiences



Saeed Moghani

Factory Manager-ARVAND Factory

- Mechanical Engineer
- Production Expert
- Factory& Site Manager
- More than 17 years Experiences



Dr. Mahdi Alibakhshi

Project Manager, Board Member

- Co-founder
- Ph.D. Civil Engineer
- Concrete & Structural Expert
- 23 years Experiences



Mohsen Faramini

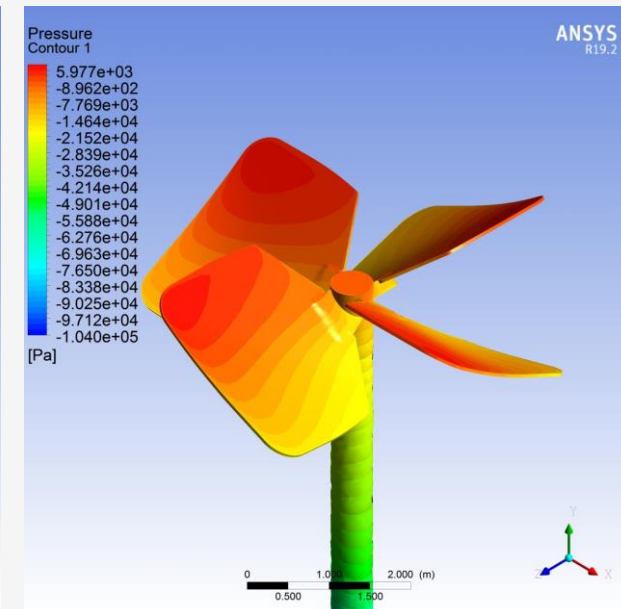
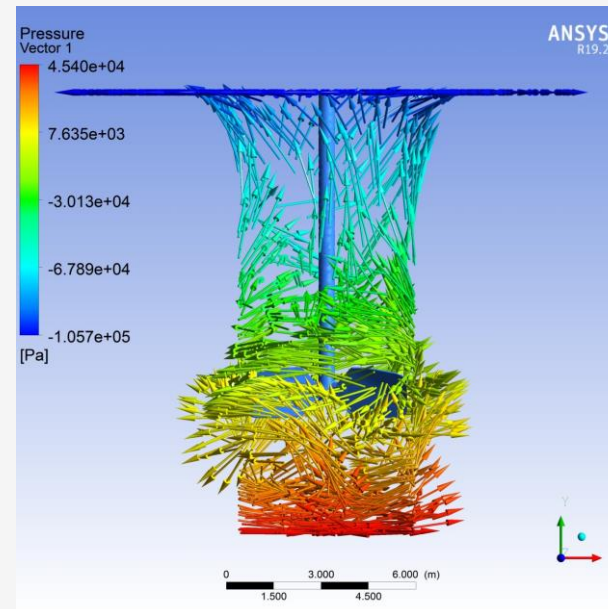
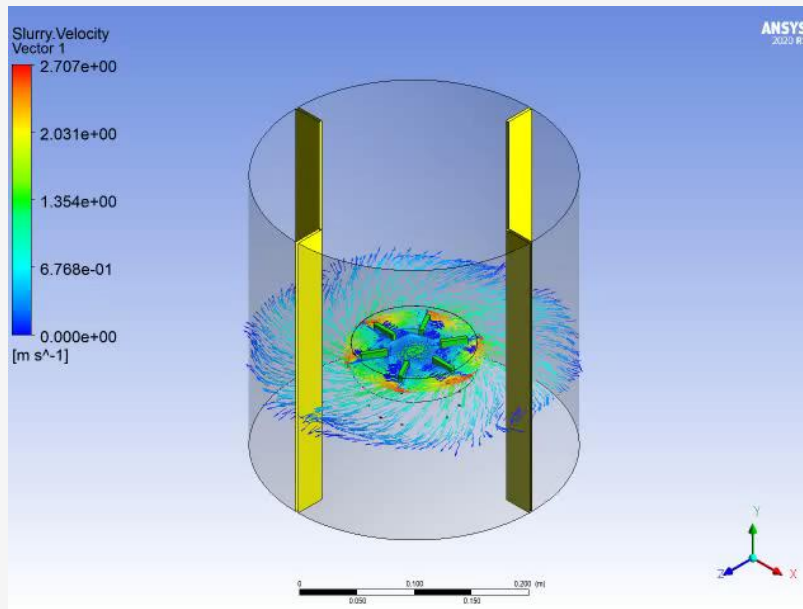
Factory Manager- Alborz Factory

- Mechanical Engineer
- Production Expert
- Factory& Site Manager
- More than 35 years Experiences

Agitator Know-how development

CFD Computational Fluid Dynamics Analysis (Axial Flow Three Phase Agitator CFD Analysis requirements)

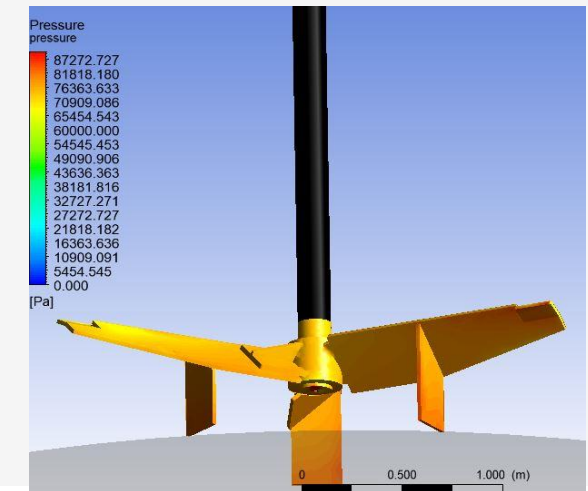
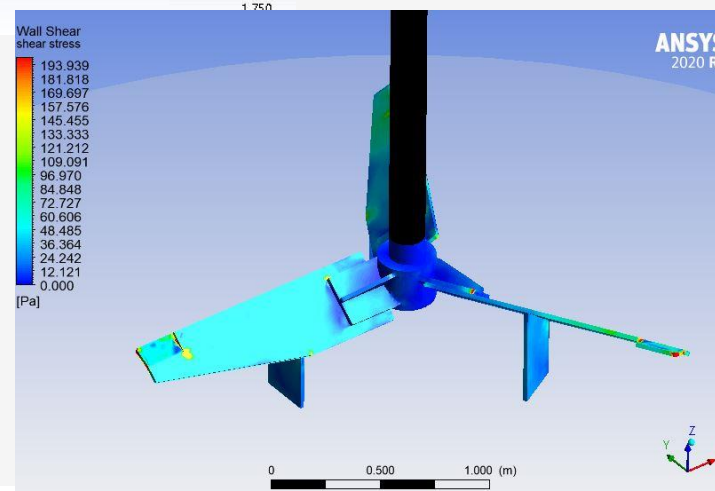
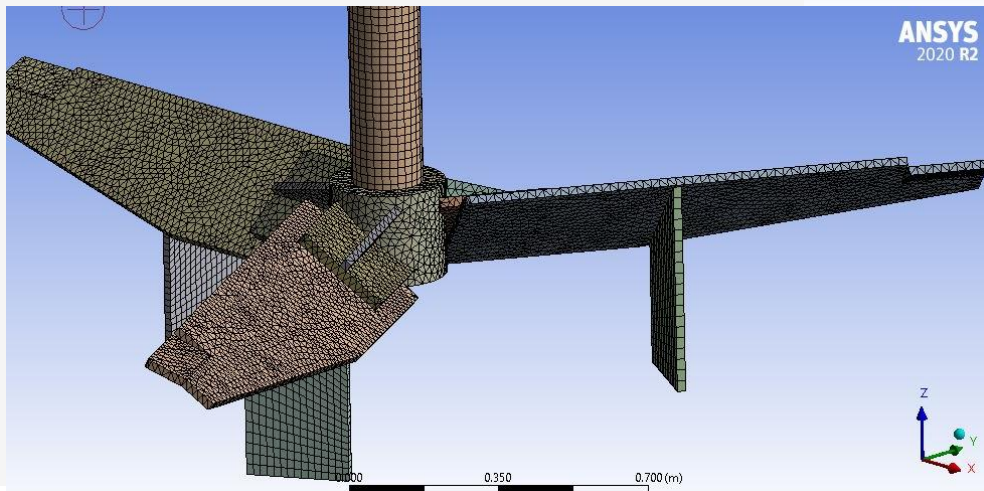
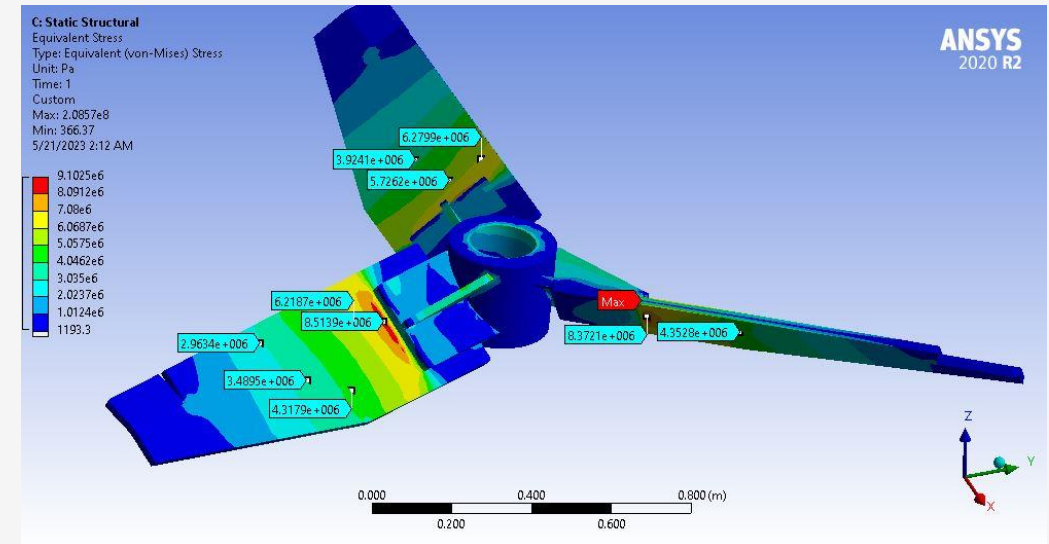
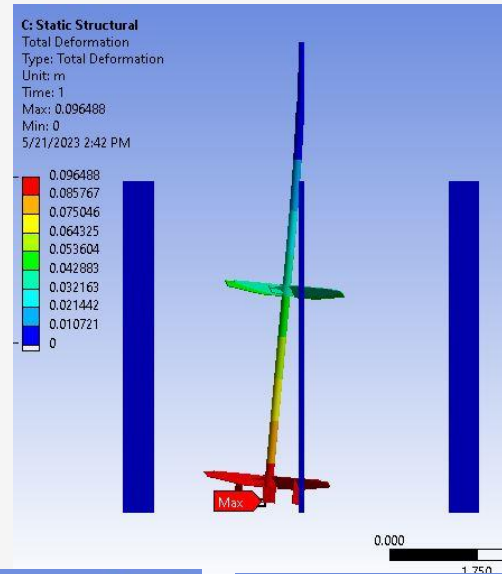
- 1 • Mechanical Design for shaft
- Maximum Starting Torque
- Oxygen and solid distribution regime
- Pressure on impeller
- Velocity Vectors, directions and demands
- Pumping Flow Pattern inside the tank
- Reacting duration modification
- Spurger installation distance and dimensions



Agitator Know-how development

2 Mechanical Analyzing :

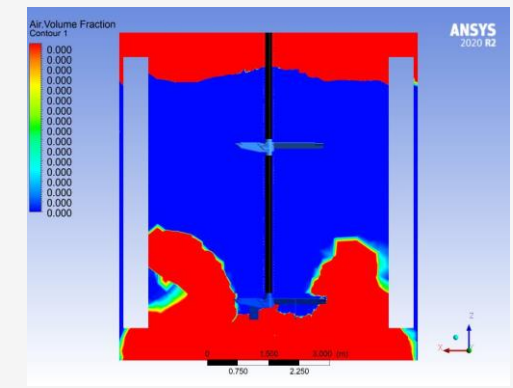
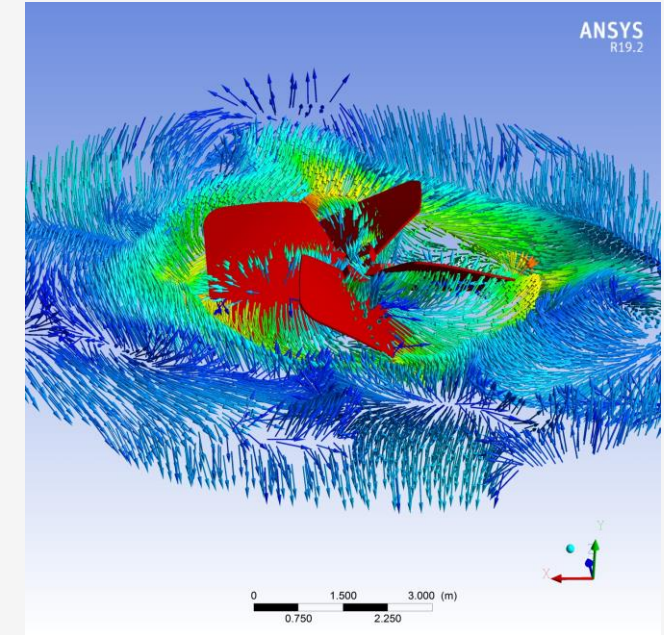
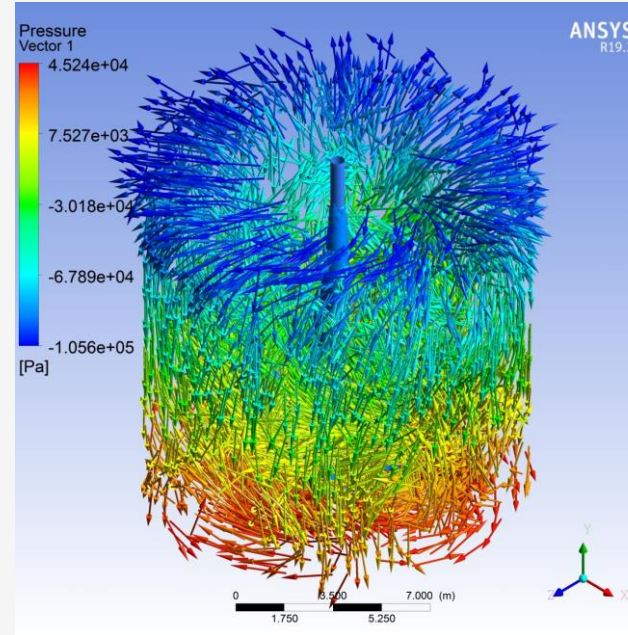
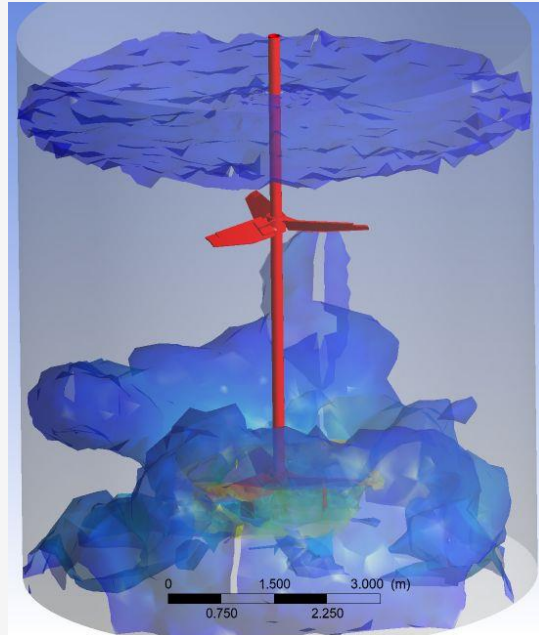
- Stress Distribution
- Pressure Distribution on impeller
- The pressure amount on the impellers
- Bending Moment analyzing
- shear stress on the lower blade



Agitator Know-how development

3 The Results:

- Temperature Distribution
- Air Distribution DOA
- Velocity Distribution to modify the baffle plates size
- The pressure amount on the impellers to modify the thickness , reducing weight & wear lining
- Correction factors for Spurger ring distance and diameter where air dispersing is required
- Start-up method and sequence & Start-up torque to modify the shaft diameter
- AIR VOLUME FRACTION DISTRIBUTION to make better reaction on Bio-leaching and Gold Leaching Plants



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