

HITARD

ENGINEERING

oil & gas engineers

European leading Engineering and Design Office for
Heat Exchangers - Pressure Vessels - Air Coolers

What we do

Engineering design services

- Thermal design and rating
- Pre-engineering / Tender phase
Setting plans & Shopping list
- Detailed engineering phase
Mechanical design calculations
Fabrication drawings package
- 3D-Modeling design
- Pipe Stress engineering
- Studies & Consulting services

for equipment such as

- Shell and tube heat exchangers
- Double pipe heat exchangers
- Plate heat exchangers
- Helixchangers
- Waste Heat Boilers
- Pressure Vessels & Drums
- Columns & Towers
- Steam Surface Condensers
- Spherical Pressure Vessels
- Reactors
- Separators
- Air coolers
- Filters and Strainers
- Tanks & Silos
- Skids & Modules
- Piping
- Structural

What we use

the latest international codes and standards

- ASME VIII Div. 1 & 2
- Eurocodes / EN 13445
- AD-2000 Regelwerk
- CODAP Div. 1 & 2
- BS codes / PD 5500
- AS-1210 S1 & S2
- ASME B31.3 Process Piping
- GOST 34233 Standards
- RToD / Stoomwezen
- TEMA & API Standards
- PED 2014/68/EU Regulations

the latest software for design calculations

- HTRI Xchanger Suite
- Compress
- PVElite / CodeCalc
- OhmTech VVD software
- AutoPIPE Vessel / Microprotol
- FEPIPE / NozzlePRO
- Finglow software
- CAESAR II
- VES / RToD software
- Dlubal software
- Hitard in-house software

CAD tools for fabrication drawings and 3D-modeling

- AutoCAD
- Inventor
- SolidWorks
- Pro/Engineer / PTC Creo
- CADWorks
- OneSpace Designer Drafting



Finite Element Analysis

Hitard uses CFD, FEA and Fatigue life analysis when local stresses need to be calculated in complex structures or equipment with cyclic loading (pressure, temperature, vibration) cases.

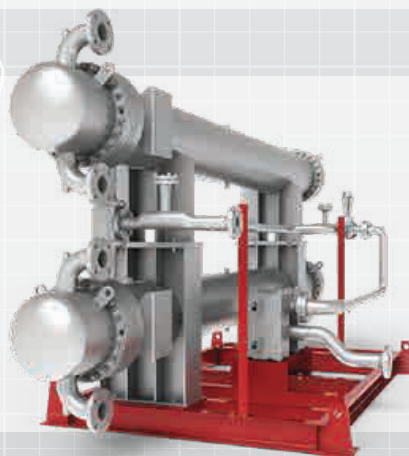
For FEA we use:

- Midas NFX Structural
- Midas NFX Advanced CFD
- Pro-Mechanica / Creo
- MSC software
- PRG software
FEPIPE / NozzlePro



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