

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
- Hairpin Heat Exchangers
- Waste Heat Boilers
- Pressure Vessels & Drums
- Columns & Towers
- Steam Surface Condensers
- Bullets & Spheres
- Reactors
- Separators
- Air coolers
- Filters and Strainers
- Storage Tanks & Silos
- Skids & Modules
- PIG Launchers & Receivers
- 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
- AutoPIPE Vessel / Microprotol
- FEPIPE / NozzlePRO
- Finglow software
- CAESAR II
- TechnoSoft AMETank
- 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/FEM and Fatigue life analysis when local stresses need to be calculated in complex structures or equipment under cyclic loading (pressure, temperature, flow vibration) cases.

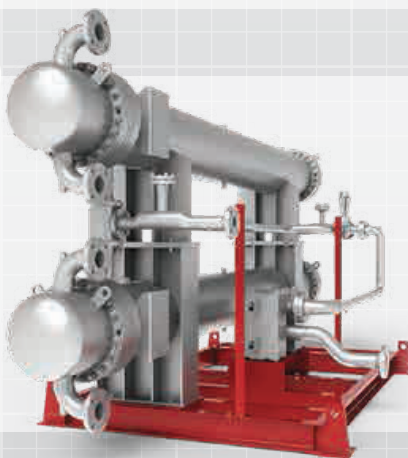
For FEA we use:

- Midas NFX Structural
- Midas NFX Advanced CFD
- Creo Simulate
- Simcenter FLOEFD
- PRG software
FEPIPE / NozzlePro



Hitard Engineering Netherlands

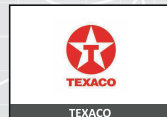
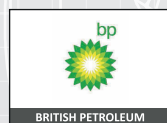
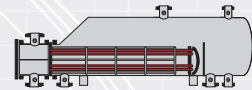
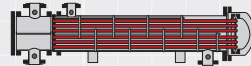
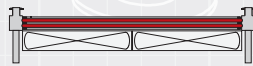
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References



Providing Quality Service is our Top Priority
since 1995