

Industrial Solutions
Process Technologies

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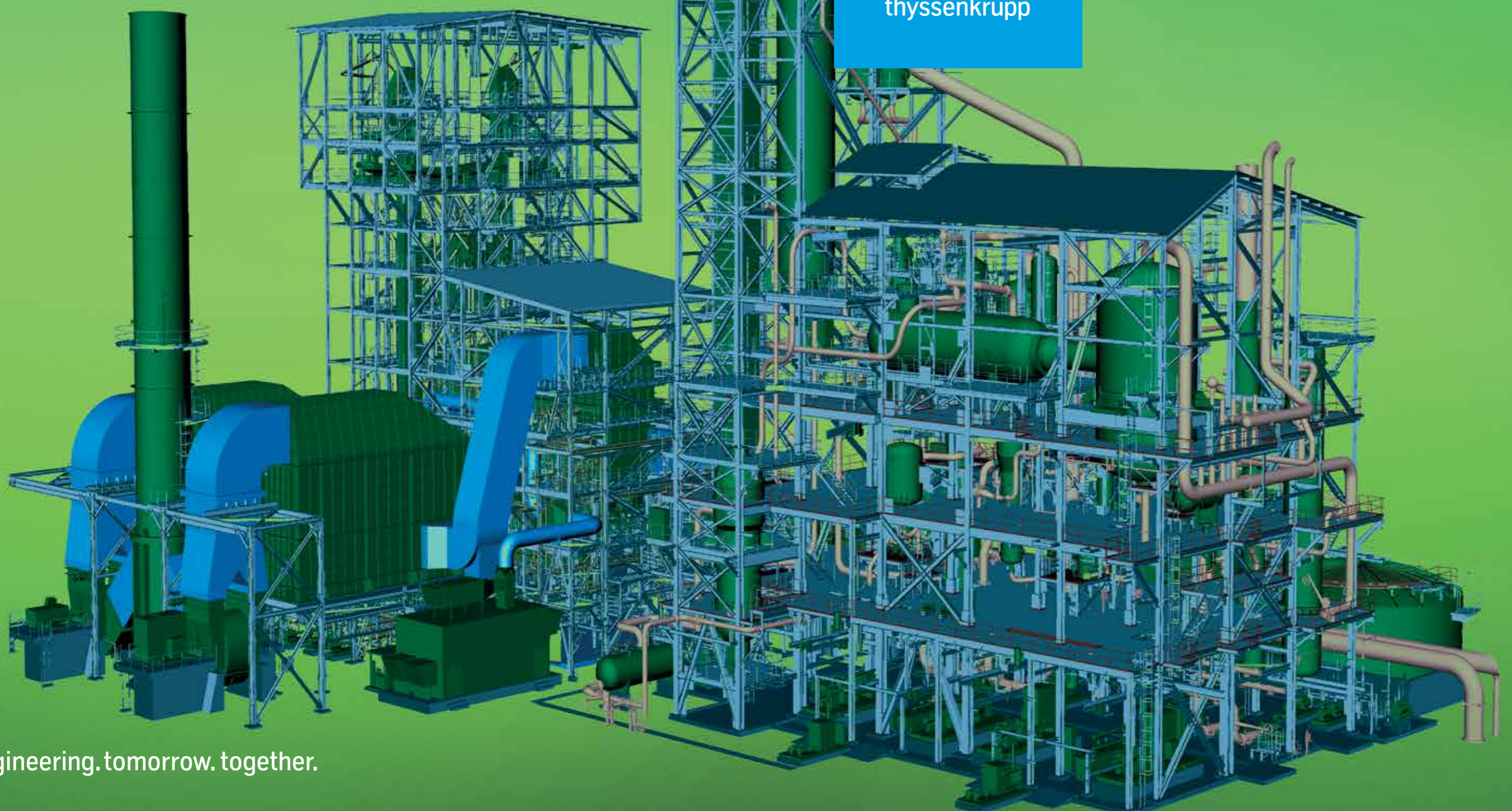
Industrial Solutions

Tailor-made
equipment for
fertilizer plants



thyssenkrupp

engineering.tomorrow.together.



Equipment for urea and ammonia plants from 200 up to 700 bar – manufactured by Uhde HPT



In-house manufacturing

Heat exchanger

Prefabricated isometric

Engineering

- 3D design
- Laser scanning at site
- Mechanical engineering
- Stress calculation
- Material definition
- Control engineering

Manufacturing

- Machining
- Welding
- Assembly
- Testing



Reactor control valve

Valves

- Control valves up to 16"
- Anti cavitation valves
- Butterfly valves
- Angle valves
- Globe valves
- Check valves
- Safety relief valves
- Analyzer valves

Piping

- Prefabricated isometrics (spools)
- NH₃ transfer lines
- Fittings
- Bends up to 16"
- Reducers
- Gaskets

- Welding neck flanges
- Threaded flanges
- Weldolets
- Tubes up to 16"
- Thermocouples

Vessels up to 120 tons

- Heat exchanger
- Carbamate condenser
- Reactor
- Separator

Service

- Inspection
- Equipment overhaul
- Site installation and welding
- Operator training

Recent references

Customer / Location	Licensor / Contractor
TAF / Turkmenistan	Saipem / MHI
IFCO / USA	Stamicarbon / TKIS
CFI / USA	Stamicarbon / TKIS
Pusri 2b / Indonesia	Toyo / Toyo
Tcherepovets 2 / Russia	Stamicarbon / Chemoproject
Greisik 2 / Indonesia	Toyo / Wuhuan

Uhde HPT stock materials

Material	Type / Grade	Steel designation
Uhde HPT standard carbon steel material		
1.0566	A350 LF2	P355NL1
Uhde HPT standard austenitic material		
1.4429	SA182 F316LN	X2CrNiMoN17-13-3
1.4435	SA182 F316LUG	X2CrNiMoN18-14-3
1.4466	UNS S31050	25Cr-22Ni-2Mo
Uhde HPT standard austenitic-ferritic material (Duplex)		
1.4462	SA182 F51	X2CrNiMoN22-5-3
1.4410	SA182 F53	X2CrNiMoN25-7-4
Special materials acc. to licensor / customer requirements Safurex, Ferralium, HVD1, Alloy 255, Titanium, Zirconium, etc.		

Main equipment for urea synthesis

