

## Ammonia Converter

Product Coding  
PXXXXXXXXX

### Introduction

The Ammonia Converter is the heart of the ammonia synthesis loop, where nitrogen and hydrogen react over catalyst beds to form ammonia under high pressure and temperature. Euroslot Pars is one of Iran's leading manufacturers of high pressure ammonia converters and critical process equipment. With decades of expertise in heavy pressure vessel fabrication, hydrogen service metallurgy, and precision machining, the company has successfully designed and delivered ammonia converters under three major international licensors:

- Casale
- Haldor Topsoe
- Kellogg

This multi licensor experience positions Euroslot Pars as one of the few manufacturers in the region capable of supplying converters for plants ranging from 600 to over 2,200 MTPD.

### Features

- Manufactured in accordance with licensor drawings and specifications from Casale, Haldor Topsoe, and Kellogg.
- High precision fabrication of catalyst baskets, V-Wire screens, gas distributors, center pipes, top grids, and support structures.
- Use of premium materials such as stainless steels and Cr-Mo alloys suitable for high pressure hydrogen service.
- Tight dimensional tolerances to ensure correct catalyst loading, uniform gas distribution, and minimal pressure drop.
- Advanced welding, heat treatment, and NDT inspection procedures to meet ammonia synthesis safety standards.
- Capability to manufacture large scale internals for multi bed axial or radial flow converter designs.



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**Casale**

**Features**

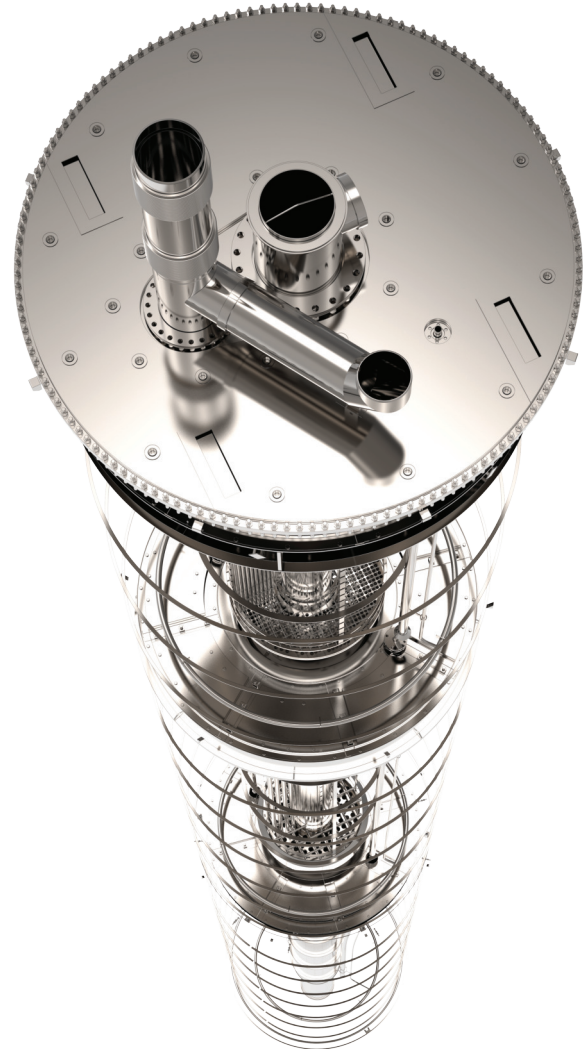
- Optimal catalyst utilization
- Very low pressure drop
- Uniform gas distribution
- High efficiency and lower operational costs
- Excellent thermal and mechanical stability

**Equipment Supplied by Euroslot Pars**

- Basket body
- Tope exchanger
- Lower interchanger
- Outer collectors
- Inner collectors
- Cover heads
- Thermowells
- Nitrogen purging
- Insulation

**Projects Supplied by Euroslot Pars**

- Shiraz petrochemical
- Zanzan petrochemical



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**Haldor Topsoe**

**Advantages**

- Low energy process
- Excellent catalyst contact efficiency
- Stable and reliable design
- Flexible loop configuration for various feedstocks (gas, heavy hydrocarbons, naphtha)

**Equipment Supplied by Euroslot Pars**

- Multi bed radial catalyst baskets
- Internal inter-bed heat exchangers
- High pressure vessel shell
- Gas distribution and collection grids
- High temperature alloy internals
- Manways, bolting, and sealing systems
- Thermowells and instrumentation ports

**Projects Supplied by Euroslot Pars**

- Hengam Petrochemical



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**Kellogg**

**Advantages**

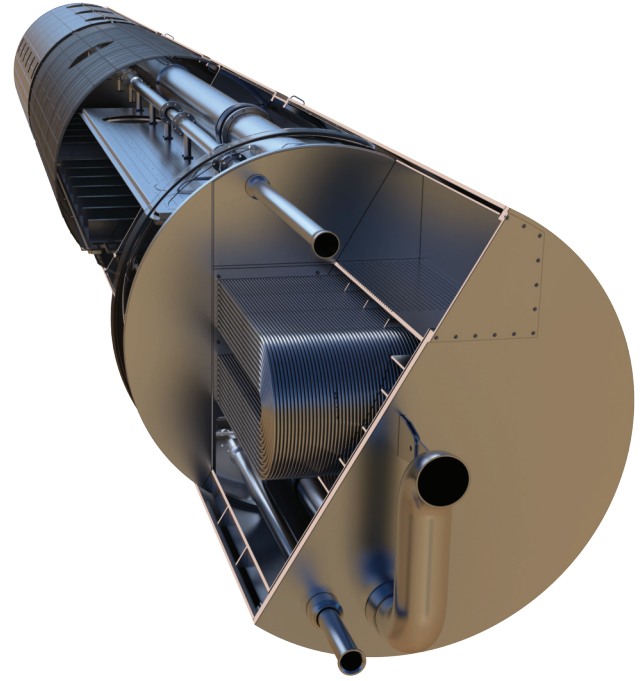
- Proven global performance
- Long operational cycle
- Robust high pressure vessel design
- Excellent integration with the synthesis loop

**Equipment Supplied by Euroslot Pars**

- Basket body
- Interchanger
- Partition plates
- Thermal barriers
- Bed support grids
- Distributor grids
- Internal piping
- Installation equipments

**Projects Supplied by Euroslot Pars**

- Pardis petrochemical-phase 3
- Kermanshah petrochemical-phase 2
- Khorasan petrochemical



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