

ONIS OUTPERFORMS STANDARD BLIND SOLUTION:  
SPECTACLE, SLIP AND FIGURE-8 BLINDS

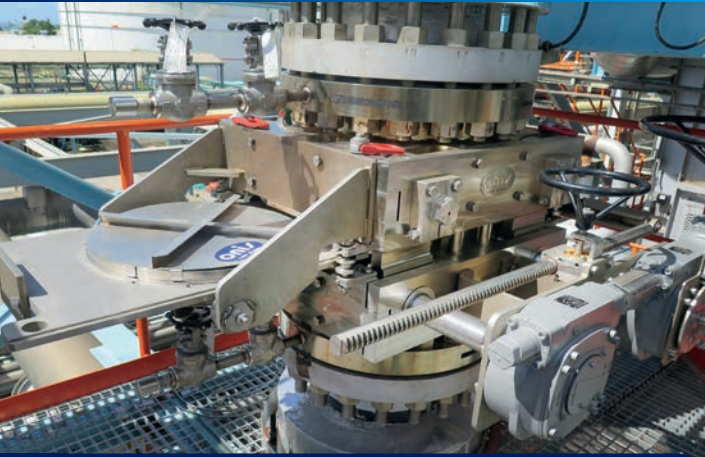


## ONIS LINE BLIND FOR PRE-REFORMING PROCESSES



**100% positive isolation  
while reducing downtime & improving safety**

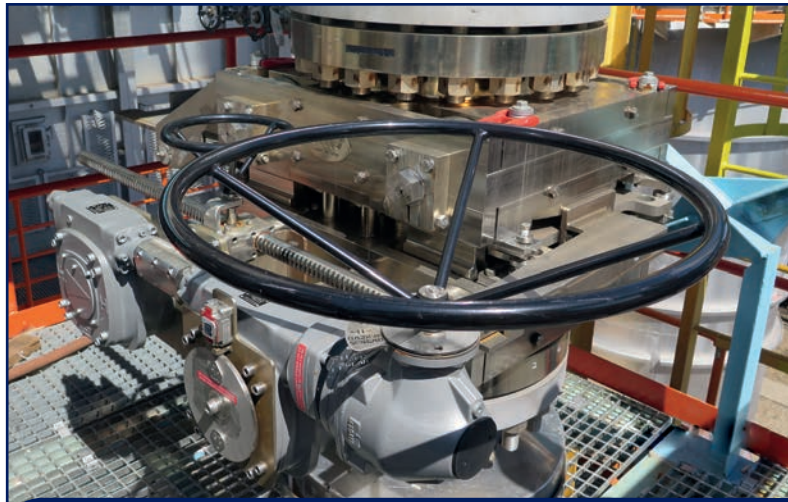




18" 600# upstream heater  
45bar, 540°C

## Blinding without ONIS Line Blind is dangerous and time-consuming:

- A single blinding operation **last 6 hours**
- **Catalyst lifetime reduced** due to long atmospheric exposure
- **Human exposure** to hazardous gas and high temperature

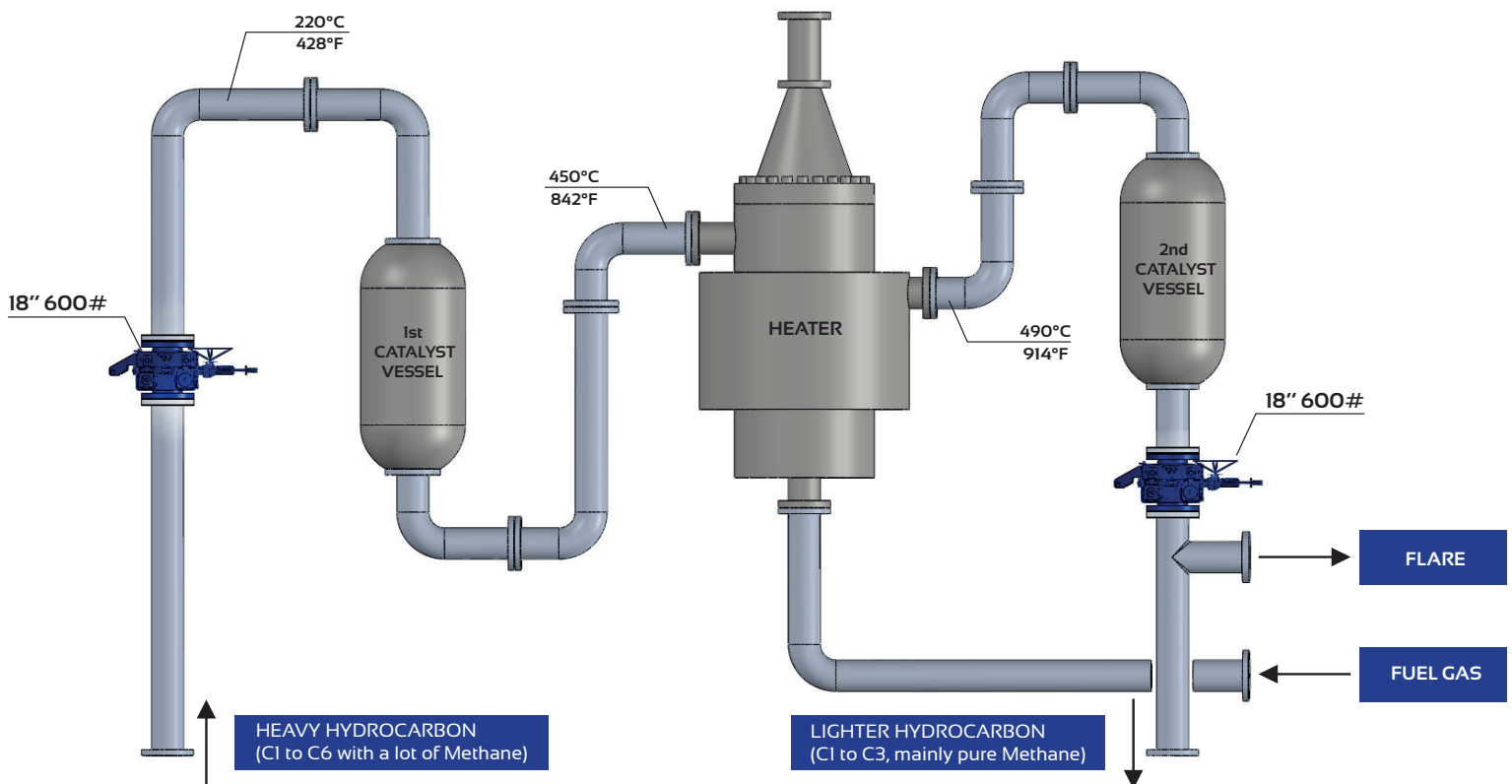


18" 600# downstream heater  
45bar, 540°C

## ONIS Line Blinds allow to:

- **Reduce downtime** by more than 75%
- Ensure **longest production runs**
- Guarantee a **100% safe and efficient positive isolation**
- **Protect catalyst** from air poisoning
- Ensure **greater operational flexibility**
- Maximize **safety & flexibility**

## TYPICAL PRE-REFORMER UNIT ON AMMONIA PLANT





# PRE-REFORMING PROCESSES

A breakeven point in just a few months through a safer way to blind the whole process

## BUSINESS CASE

Qty	Diameter	Rating
2	18"	600 #

- Replacement of 2 **Figures-8** (traditional blinding) with 2 **ONIS Line Blinds** of 18" on Pre-reformer unit to reduce downtime and increase plant safety and profitability.
- A blinding operation is required **every 1 year**.



AMMONIA PLANT

## YOUR LINE BLINDS PAID IN 1 YEAR OR LESS

\*Catalyst loss due to long atmospheric exposure

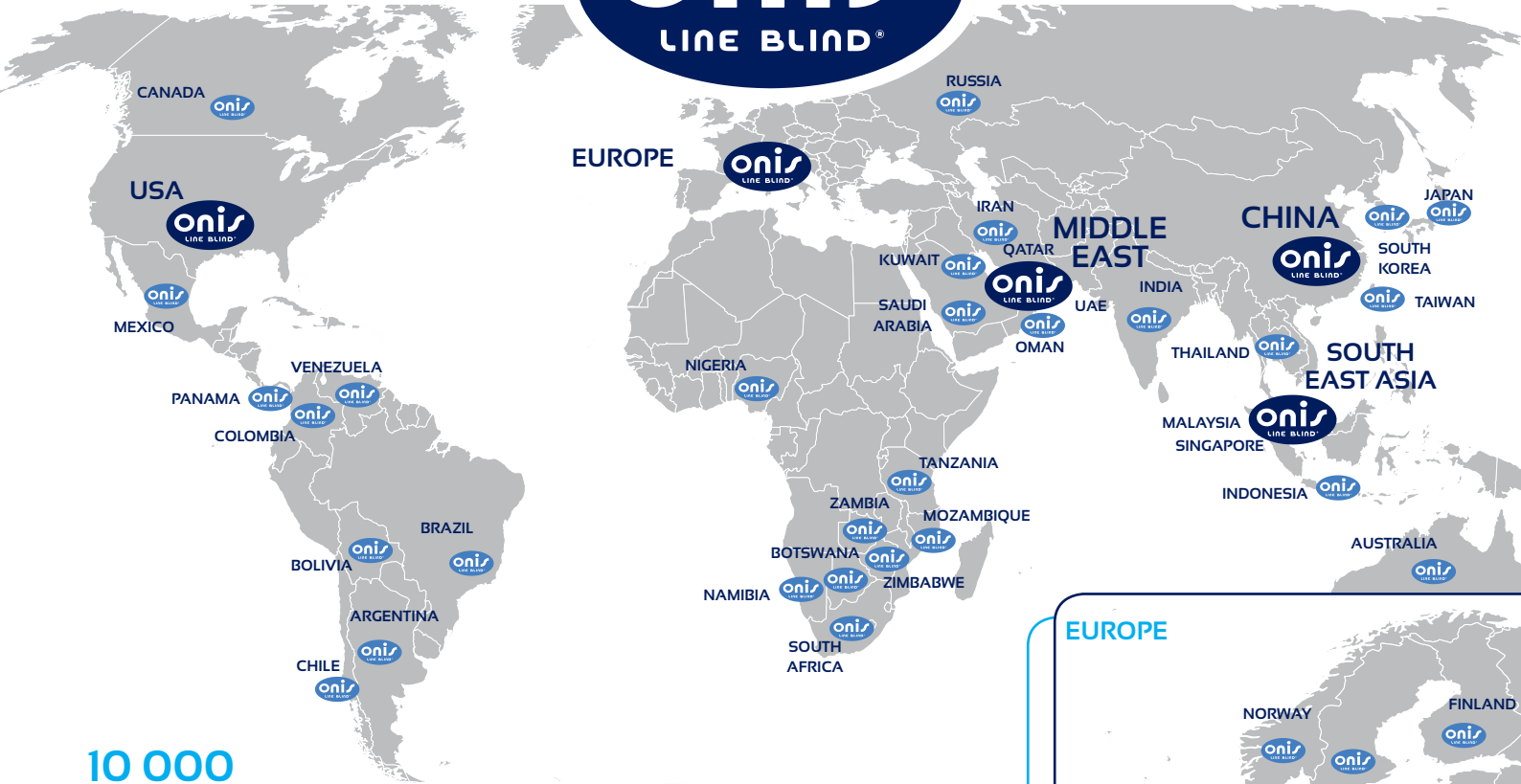
	Traditional blinding "Figure-8"	ONIS Line blind	Benefits
Staff	6	2	4 men exposure <b>SAVED</b>
Tools	Many tools, cranes...	Zero tool	Hazard and hassle <b>SAVED</b>
Operating time (blinding / unblinding)	24 hours	2 hours	22 hrs of production <b>SAVED</b>
Loss due to downtime	\$336K	\$28K	<b>\$608K SAVED</b>
Catalyst loss*	\$300K	-	
Equipment cost	Cost of Figures-8 included	\$565K	-

**PAY-BACK PERIOD = 1 YEAR**

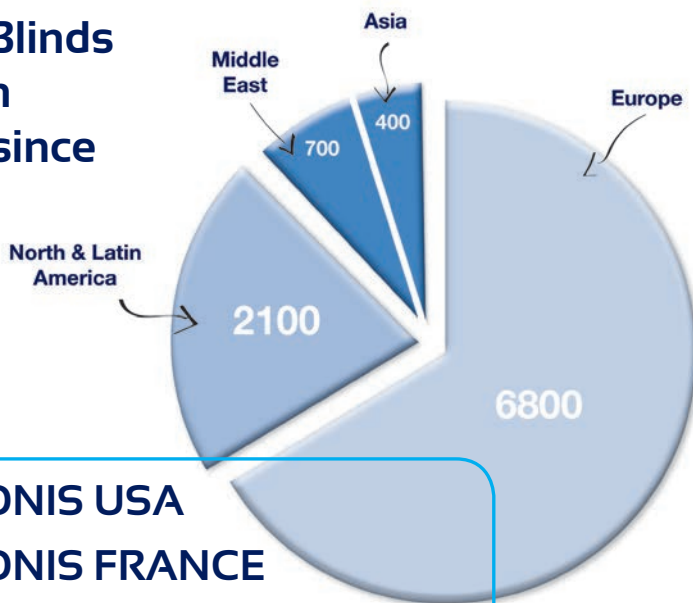
## Some of our references

Company	Area
BP	USA
Celanese	USA
Fostfertil	Brazil
Linde	Russia
Petrobras	Brazil
Petronas - ABF	Malaysia

**Safety and Flexibility are key to your operations**



10 000  
ONIS Line Blinds  
in operation  
worldwide since  
1979



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-  ONIS FRANCE
-  ONIS MIDDLE EAST
-  ONIS SOUTH EAST ASIA
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[sales@onislineblind.com](mailto:sales@onislineblind.com)



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