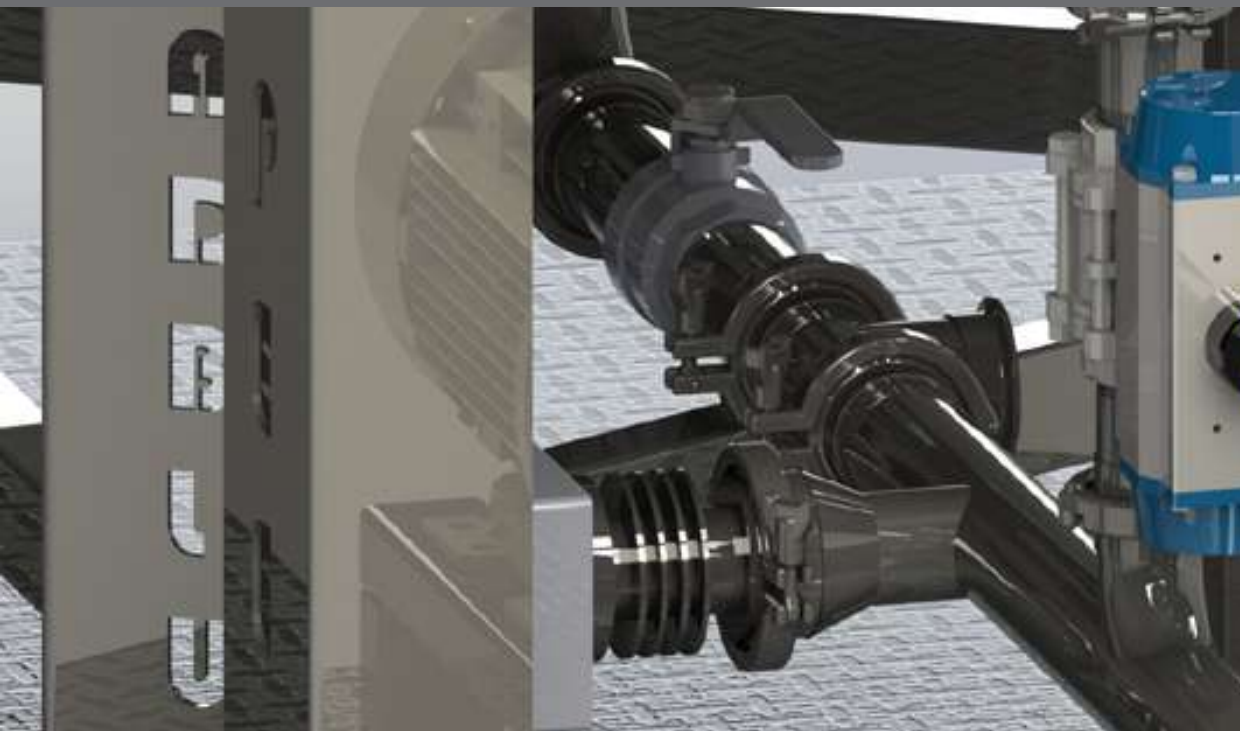


# AdBlue®

## GOLDBERG®

**AdBlue PRODUCTION FOR LIFE**



**AdBlue®**  
**GOLDBERG®**

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## What is AdBlue?

### FOR MODERN DIESEL ENGINES

AdBlue is a high-quality urea which makes urea as its main raw material. AdBlue is a high purity urea dissolved and suspended in deionised water.

All modern diesel engines with selective catalytic reduction (SCR) units in their exhaust systems can benefit from AdBlue. These include diesel-powered vehicles such as trucks, buses, tractors, cars, vans and off-road vehicles.

SCR engines use a diesel exhaust fluid (DEF) such as AdBlue. The fluid is stored in a separate tank in the system and injected into the exhaust stream. This injection causes a chemical reaction in the SCR catalytic converter which turns oxides of nitrogen (NOx) into environmentally-friendly components, diatomic nitrogen (N<sub>2</sub>) and water. As a result, selective catalytic reduction systems are being used as a sustainable and

effective way of protecting the environment.

AdBlue combined with an SCR-catalyst converter has proven to be the leading technology for reducing nitrogen oxide (NOx) in exhaust gasses which are created in the combustion process in diesel engines. The synergy between SCR technology and AdBlue can help reduce NOx emissions by up to 95%.

AdBlue will help your business to reduce harmful emissions and it will reduce your fuel costs by up to seven percent. The product can be stored for 18 months, with a low freezing point of -11°C. It can be used in most weather conditions.

## What is AdBlue?



- WE CARE ABOUT ENVIROMENT
- WE CARE ABOUT EARTH
- WE CARE ABOUT FUTURE

# AdBlue®

# AdBlue®

## WHAT MAKES AdBlue DIFFERENT?



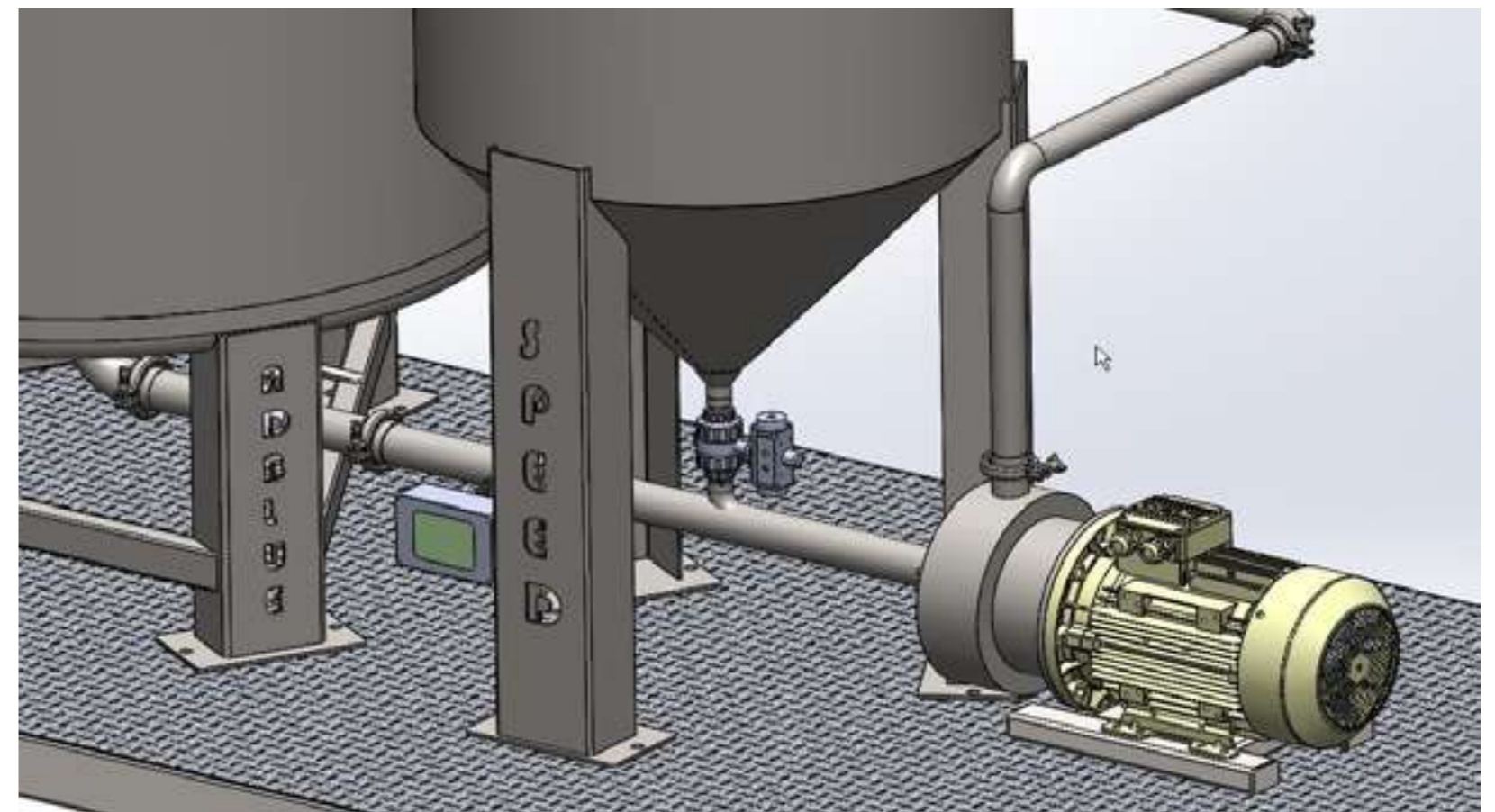
# GOLDBERG®

## A MARK OF QUALITY

The AdBlue trademark is held by the German Association of the Automobile Industry (VDA), which ensures that quality standards are maintained in accordance with ISO 22241 (ISO-22241-1, DIN 70070, AUS 32) specifications.

By buying a reagent for your vehicles with the AdBlue registered trademark (®), you can be sure that the product's quality and specification is guaranteed to meet VDA specifications and Standards.

Goldberg AdBlue is cost-effective, high quality and reliable.







**AdBlue®**

**GOLDBERG®**



AdBlue®

AdBlue  
FOR  
BUSES  
AND  
TRUCKS



**GOLDBERG®**

## REDUCE COSTS AND ENVIRONMENTAL IMPACT

**Bus and truck fleet owners across the world are already using AdBlue to reduce their costs and minimize their environmental impact.**

We provide AdBlue for all truck and bus fleet sizes. We have large bulk containers to supply in quantities of 10 litres and 20 litres. Soon we'll have 210-litre drums and 1000 litre IBCs.

You can rely on us for efficient delivery and dispensing and we're happy to work with you over the long term with a regularly scheduled delivery service.

We plan our distribution with the most efficient routing, trying to optimize distance where possible so that we can reduce our carbon footprint and minimize costs to you. Average truck and bus consumption of AdBlue is generally 4% to 8% of use versus diesel, although this depends on distances traveled, style of driving and the size of the vehicle's tank.

Register your interest for AdBlue today by emailing [info@goldberg.com.tr](mailto:info@goldberg.com.tr) and we'll be in touch soon.





# AdBlue®

## AdBlue FOR CARS



# GOLDBERG®

## REDUCE COSTS AND ENVIRONMENTAL IMPACT

Vehicle manufacturers, gas stations and service facilities across the world are already using AdBlue to help their customers reduce their costs and minimize their environmental impact.

Currently, in South Africa, few new diesel passenger cars need AdBlue as vehicle manufacturers are ahead of the legislation in South Africa. We expect new legislation regarding AdBlue requirements to emerge within the next three to five years which will cover all new passenger vehicle with diesel engines.

Average customer use of AdBlue is 1,5 litres for every 1000 km, which means refills are required between two and six times each year depending on vehicle size, driving style and distance traveled.

Register your interest for AdBlue today by emailing [info@goldberg.com.tr](mailto:info@goldberg.com.tr) and we'll be in touch soon.





# AdBlue®

## AdBlue FOR INDUSTRY



# GOLDBERG®



## CONSTRUCTION AND MINING MACHINERY



**Businesses in the construction and mining industries across the world are already using AdBlue to reduce their costs and minimize their environmental impact.**

AdBlue is suitable for all powered machinery including construction site vehicles and mining machinery. Bulldozers, excavators, forklift trucks, generator sets, dump trucks, forestry equipment and many more will all benefit from using AdBlue technology. No matter how much AdBlue you need each year, we can provide a solution that suits your needs. We can deliver AdBlue in bulk,

different-sized canisters. Average machinery consumption of AdBlue is generally 4% to 8% of use versus diesel, although this depends on vehicle size and type of use. Because of the wide variety of off-road vehicles, it is difficult to pinpoint their exact usage. As an example, a large heavy-duty tractor can use 2,500 litres of AdBlue a year.

We plan our distribution with the most efficient routing, trying to optimize distance where possible so that we can reduce our carbon footprint and minimize costs to your business.

Register your interest for AdBlue today by emailing [info@goldberg.de](mailto:info@goldberg.de) and we'll be in touch soon.



**GOLDBERG®**

# AdBlue® AND AUS40 FOR SHIPS

## ADVANCING THE MARINE INDUSTRY

Vehicle manufacturers, gas stations and service facilities across the world are already using AdBlue to help their customers reduce their costs and minimize their environmental impact.

Average customer use of AdBlue is 1.5 litres for every 1000 km, which means refills are required between two and six times each year depending on vehicle size, driving style and distance traveled.







**AdBlue®**

**GOLDBERG®**

## **AdBlue AND THE ENVIRONMENT**

### **REDUCING EXHAUST EMISSIONS**

**Current automobile exhaust emission legislation in requires exhaust emission compliance with Euro II emission standards. Stricter regulations are expected soon in line with the country's Climate Change Mitigation and Response Strategy and affiliation with the COP 21 Paris Climate Accord.**

**Emissions of NOx contribute to air pollution, respiratory tract infections and climate change so must be reduced. Many automobile manufacturers have made headway in reducing exhaust emissions and improving fuel efficiency.**

Because of AdBlue's positive environmental impact,

consumption is significantly higher than for more established automotive fluids such as engine oil, coolants, brake fluid and windscreen-washer fluid.

In the EU, Euro 1-6 legislation has led to less than 1g/kkWh of NOx for new vehicles. Legislation is expected to follow this pattern.

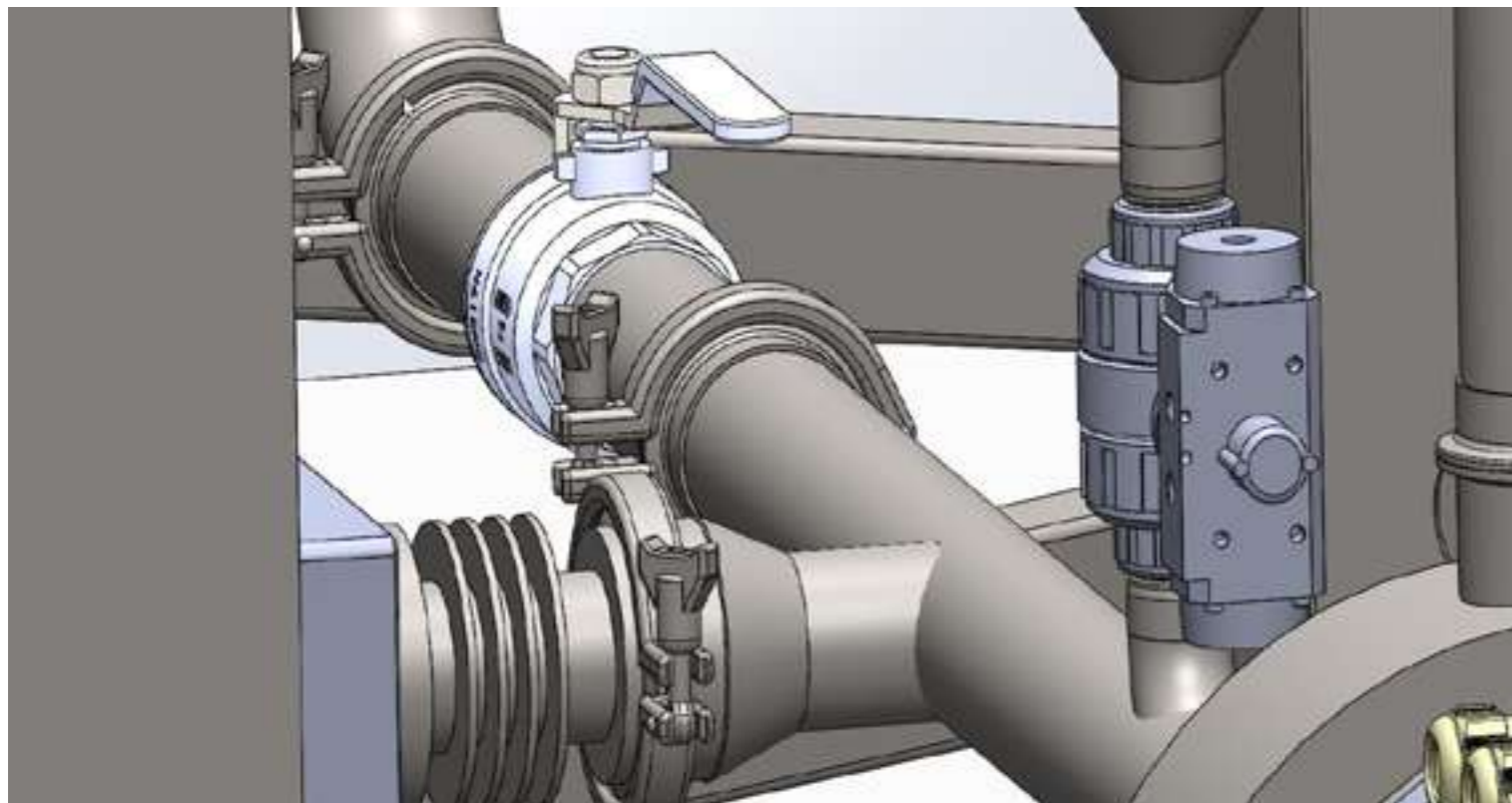


# GOLDBERG®

## COMMITTED TO OUR CUSTOMERS

We are committed to all aspects of operational safety - protecting our staff, the general public, the environment, and of course our customers and their products. Quality is a mix of knowledge, process excellence, human dedication and personal relationships.

We will strive to bring you the best in all areas. As a European company, we are committed to eradicating poverty and contributing to the social challenges facing our country. We want to do this by creating opportunities for young people and empowering women.



## OUR COMMITMENT TO YOU

- Long-term loyalty, which outperforms our competitors
- 100% European company with worldwide exposure
- Cost-effective solutions for customers
- 24/7 service availability
- Safe and reliable VDA certified AdBlue delivery
- Professional and highly competent staff
- Quick and easy payment options
- Dedicated account managers
- Easy payment terms in long-term contracts and works
- Commitment to environment friendliness
- Systematic and analytical approach to CRM

# AdBlue®

**HIGH SPEED  
AdBlue  
PRODUCTION  
PLANT  
CREATED  
BY US**





# AdBlue®

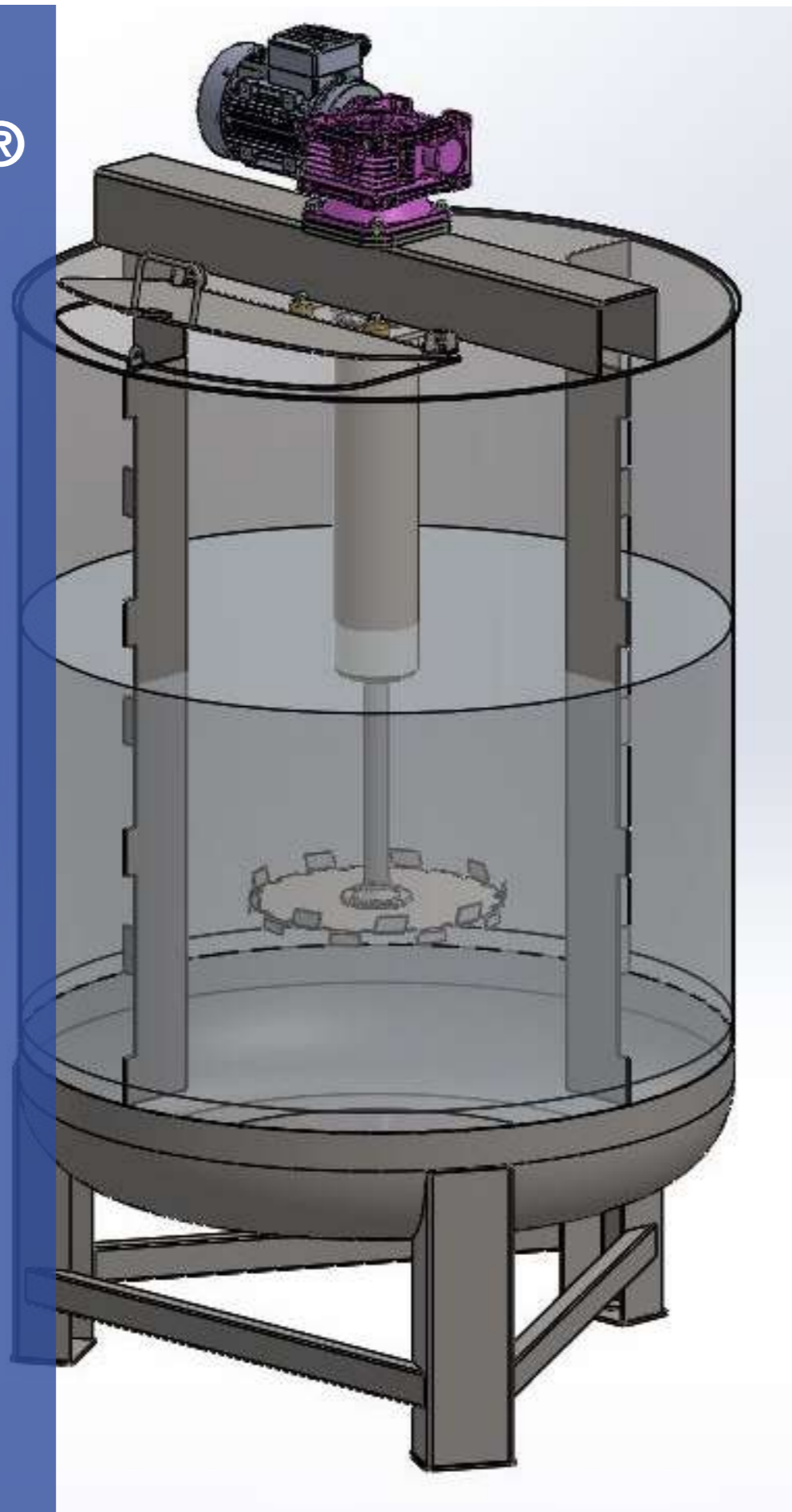
- ✓ PRODUCTION OF EACH BATCH IN 10 MINUTES
- ✓ AUTO-MIXING SOLID AND LIQUID
- ✓ ALL PARTS STAINLESS STEEL
- ✓ ULTRALOW ENERGY CONSUMPTION
- ✓ HIGH SPEED PRODUCTION
- ✓ JUST 2 EMPLOYEE FOR PRODUCTION



**AdBlue®**

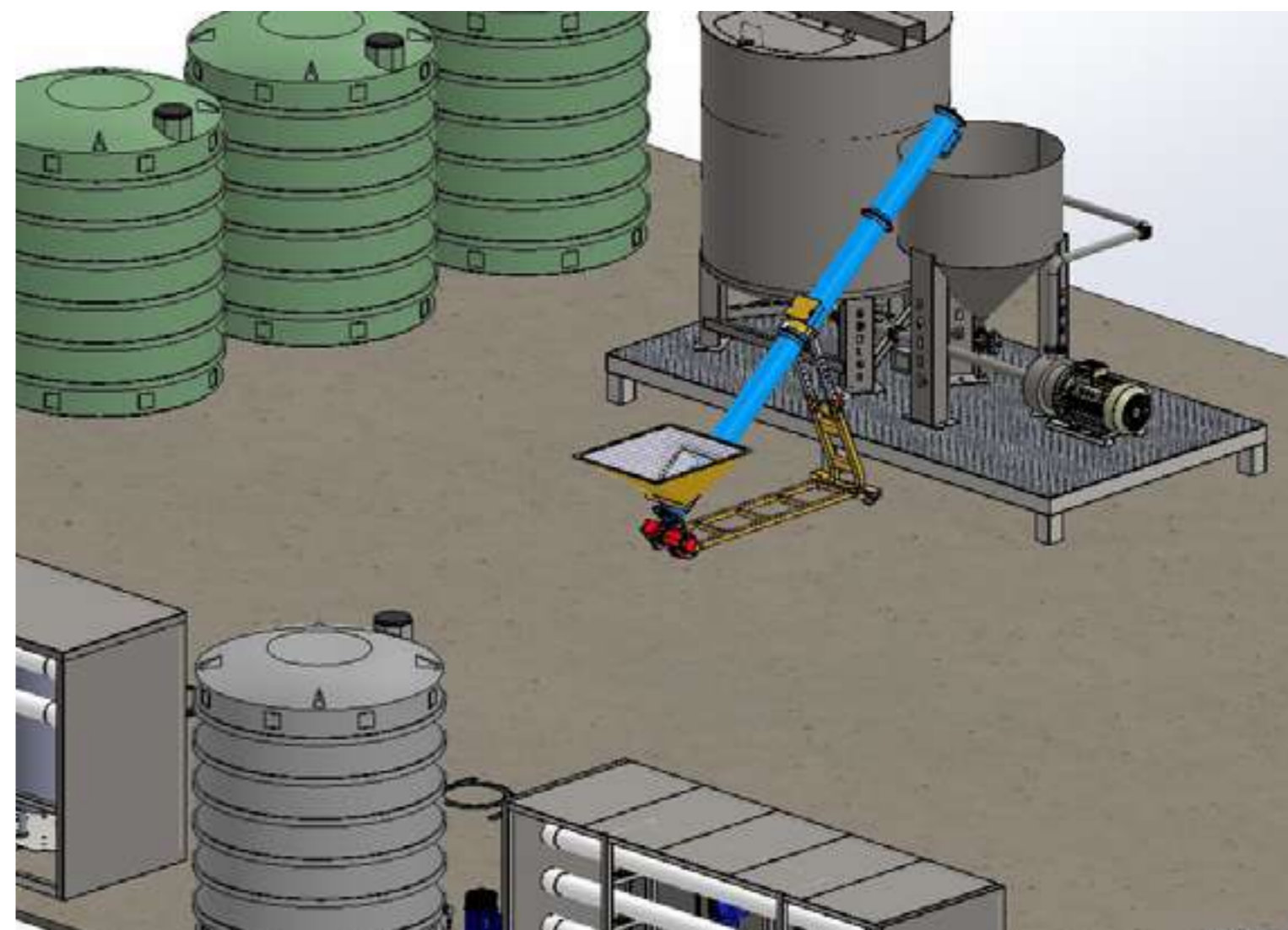
**COLD  
PRODUCTION  
PROCESS**

**CREATED  
BY US**



**GOLDBERG®**

**EACH BATCH ✓  
PRODUCTION PROCESS  
ALMOST 10 MINUTES**





# AdBlue®

- PRODUCTION OF EACH BATCH IN 10 MINUTES
- AUTO-MIXING SOLID AND LIQUID
- ALL PARTS STAINLESS STEEL
- ULTRALOW ENERGY CONSUMPTION
- HIGH SPEED PRODUCTION
- JUST 2 EMPLOYEE FOR PRODUCTION



**GOLDBERG®**

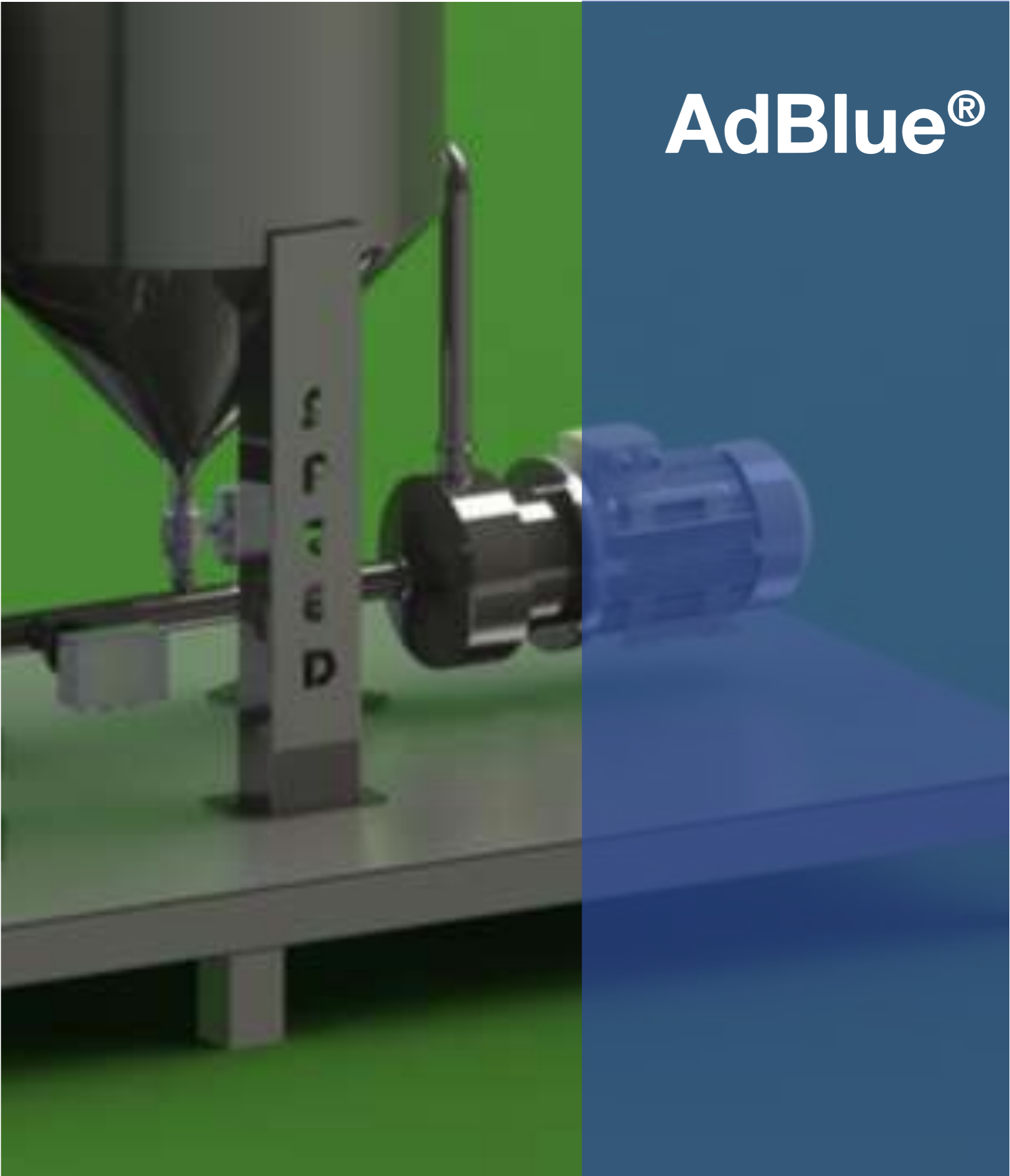
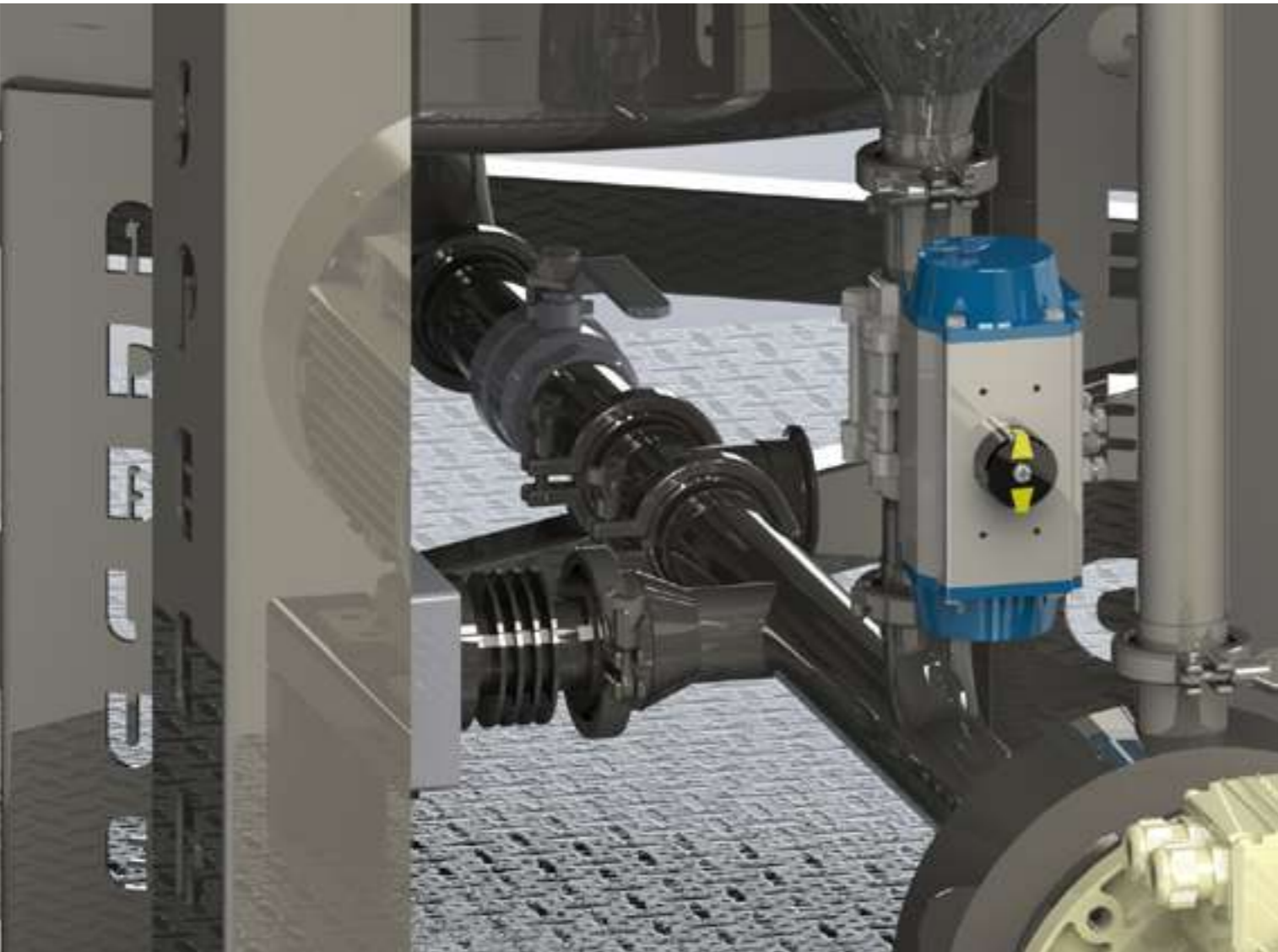
**AUTO ✓  
REGULATION  
WITH SOLID  
AND LIQUID  
AMOUNT.  
WITHOUT  
TOUCH  
PRODUCTION.**





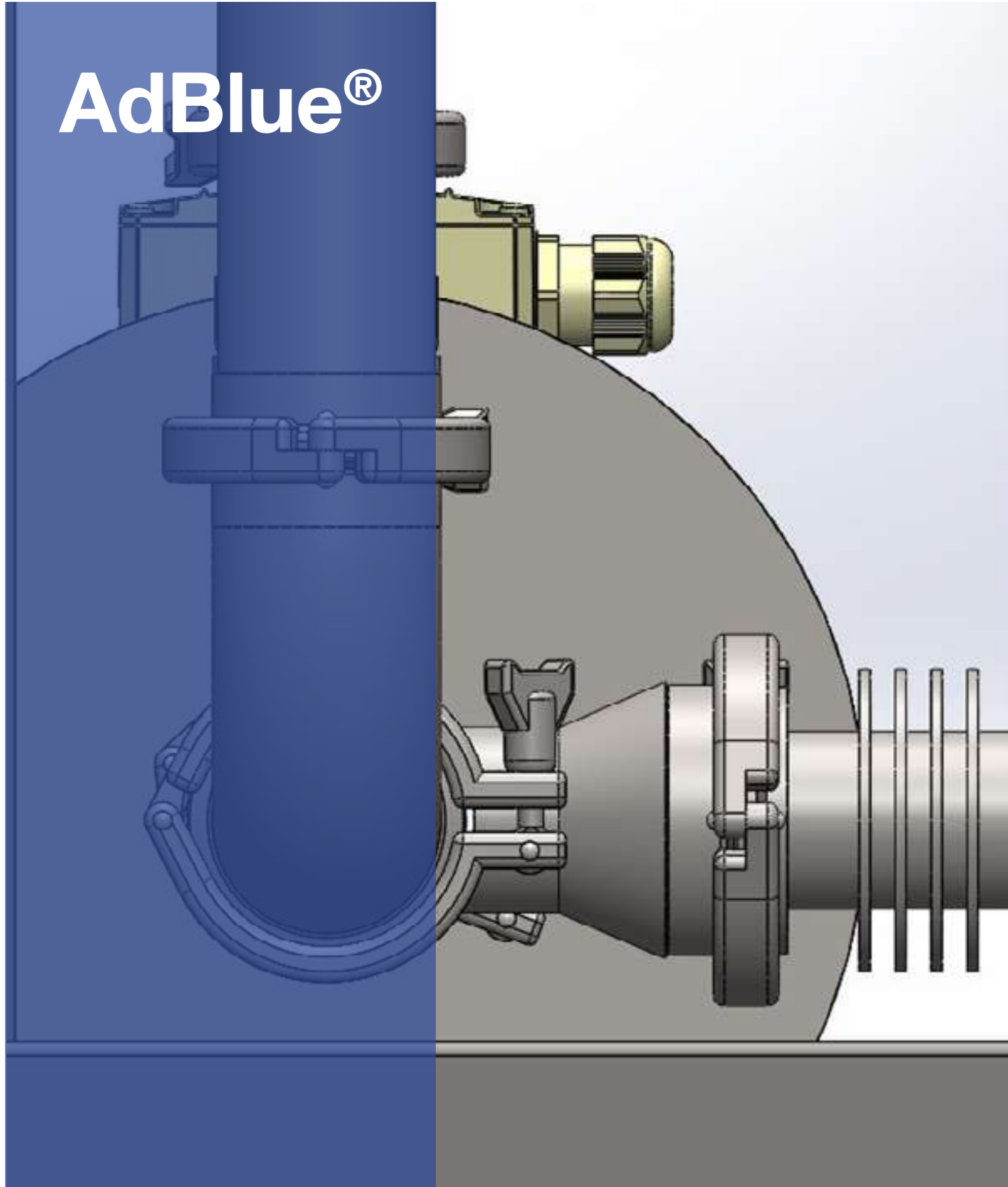
**GOLDBERG®**

**ALL BLENDING  
PARTS MADE OF  
STAINLESS STEEL**





**AdBlue®**



**GOLDBERG®**

**BLENDS** ✓  
**32,5%**  
**SOLUTION**  
**AT LOW**  
**TEMPERATURE**  
**(30°C)**





**AdBlue®**

**HIGH SPEED AdBlue  
PRODUCTION**

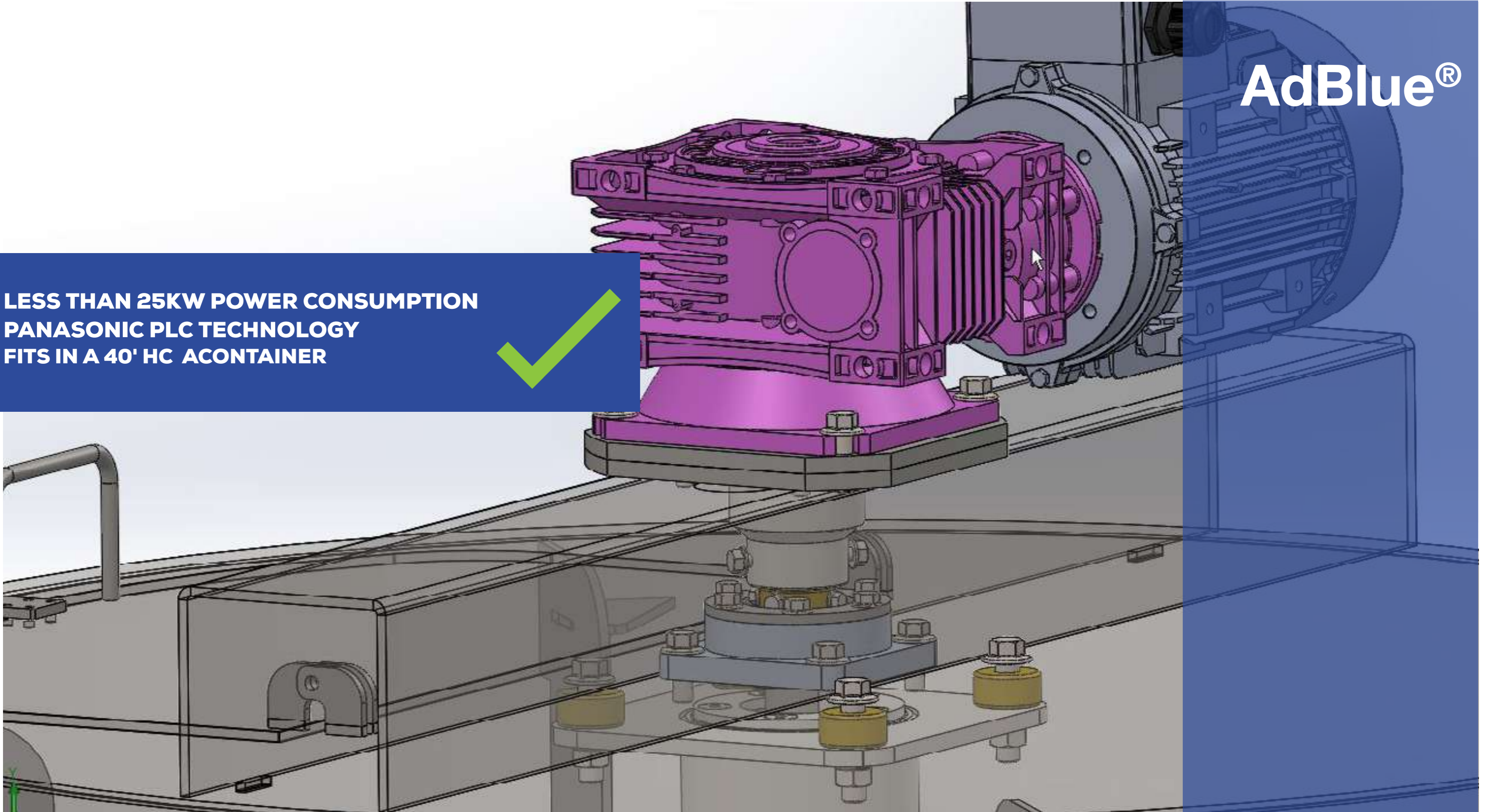


**GOLDBERG®**



AdBlue®

**LESS THAN 25KW POWER CONSUMPTION  
PANASONIC PLC TECHNOLOGY  
FITS IN A 40' HC ACONTAINER**









AdBlue®

**GOLDBERG®**

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