

# PIGGING, DECOKING & FILTRATION



## Advantages

- All-inclusive mechanical pigging services
- Complete project design and engineering
- Closed-loop filtration
- Largest triple-pass pigging pumper fleet in the world
- Advanced automation and electronics
- HD video and real-time updates
- Smart pigging capabilities
- Safe and environmentally compliant
- Cost savings analyses



See our video at  
[www.usadebusk.com/pigging-and-decoking](http://www.usadebusk.com/pigging-and-decoking)

USA DeBusk offers pigging and decoking services for refining and chemical processing applications. This mechanical cleaning service removes fouling that accumulates on the inner walls of furnace coils, boilers and piping systems. It allows customers to avoid costly outages, reduce fuel and other operating costs, enhance profitability, and minimize safety risks.

USA DeBusk is an established and growing leader in the industry, with a superior record of service that includes projects for every major refiner in North America. Our commitment to environmental, health and safety includes best-in-class safety training, advanced automated equipment, and sustainable processes to conserve water and eliminate waste.

## ADVANCED TECHNOLOGY

USA DeBusk operates the most advanced and innovative pigging and decoking pumper fleet in the industry.

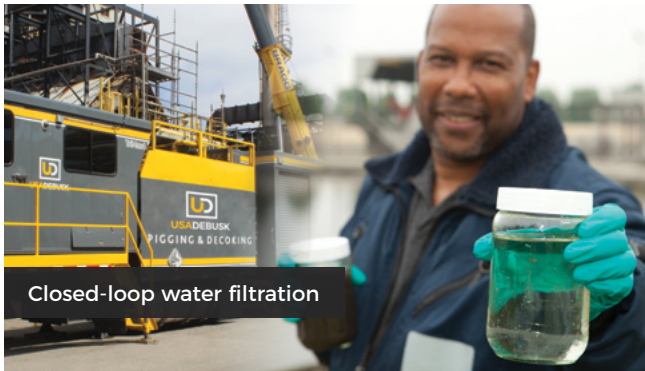
Features and capabilities of USA DeBusk systems include:

- TriMax™ triple pumping systems that increase productivity by 50%
- The most diverse selection of engineered decoking pigs in the world
- Tier Three 4F turbo diesel engines
- Advanced automation and electronics for process control and monitoring
- HD camera system for remote viewing via pigging portal

Pumpers are designed for maximum safety and environmental compliance. Each unit is completely self-contained to prevent spills and is equipped with emissions-compliant engines.



Systems engineered for safety



Closed-loop water filtration

USA DEBUSK DELIVERS SUPERIOR RESULTS USING THE SAFEST, MOST TECHNOLOGICALLY ADVANCED SYSTEM IN THE WORLD

## CLEANING & ASSESSMENT

The service is performed with a progressive pigging system and proprietary trailer-mounted pigging pumper that transports a cleaning pig bi-directionally through the furnace tubes or piping using low-pressure water.

TriMax triple pumping systems allow cleaning and decoking to be completed in two passes and smart pigging to be performed in a third pass or three cleaning passes to be performed at the same time. Triple pumping systems also improve reliability, providing 100% spare capacity compared to dual units.

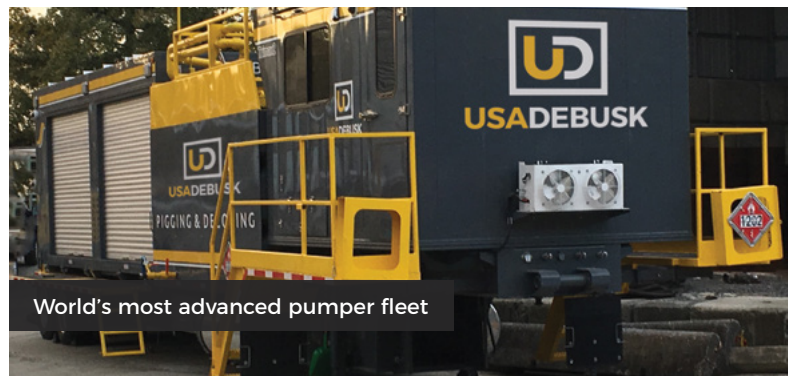
## EXPERTISE & SERVICE

The USA DeBusk pigging and decoking management team includes veteran experts with extensive pigging and decoking experience. Each crew is highly trained for safe and effective performance.

USA DeBusk provides comprehensive planning and execution, including project design, engineering, scheduling, cost savings analyses and verifiable results for all services.

## CLOSED-LOOP FILTRATION

Closed-Loop filtration is an optional service that operates continuously during the decoking process to remove and capture entrained particulates from the effluent and provide a continuous supply of clean water for nonstop decoking. Capable of saving thousands of gallons of water every shift, this service also reduces the equipment footprint at the job site and provides savings by eliminating multiple third-party contractors.



World's most advanced pumper fleet