

# SABRE AUTONOMOUS SOLUTIONS



**DON'T LABOR IT. SABRE IT!**





## TOMORROW'S TECHNOLOGY IS HERE TODAY

The approach to abrasive blasting for corrosion maintenance has changed very little since the Industrial Revolution of the early 20th Century. Today we stand at the doorstep of "Industry 4.0", yet we still put workers in danger, while the underlying fact remains that humans don't actually belong in confined and dangerous spaces for any reason. There needs to be a better way.

As rapid technological change continues to emerge on a steeper and steeper curve, we at Sabre believe that the time for dramatic change in corrosion management processes is now. We believe we need the process to be faster, and to yield more consistent results. Most of all, we believe that technology should ensure that every worker returns home to their family as safe as they were when they left for work.

### WHAT THE ALPHA-1 DOES



#### SAFETY

The Alpha-1 allows the blasting operator to program and operate the blasting process from a safe place.



#### ACCURACY & CONSISTENCY

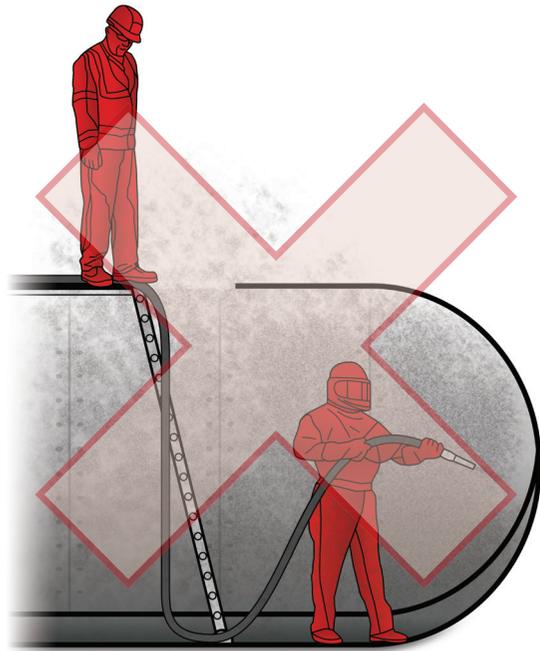
It can "aim" more accurately and maintain a programmed blast track for an indefinite period of time, longer than human capabilities allow.



#### SPEED

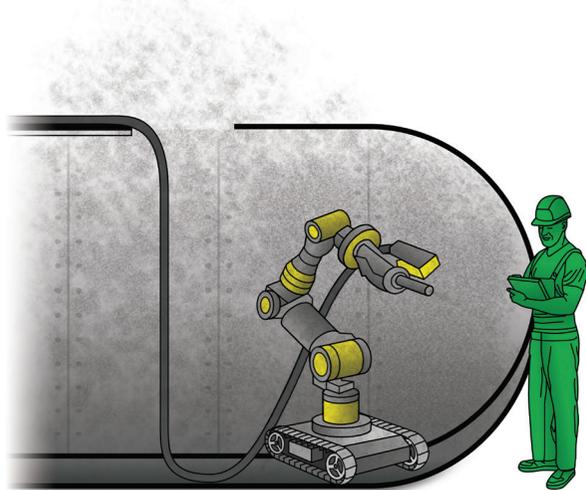
It boasts a proven clearance rate of between 18m<sup>2</sup> (194ft<sup>2</sup>) and 40m<sup>2</sup> (430ft<sup>2</sup>) per hour\*, without any rest breaks.

\* The 18m<sup>2</sup> (194ft<sup>2</sup>) rate is proven in complicated areas, the 40m<sup>2</sup> (430ft<sup>2</sup>) rate is achievable on unpainted flat surfaces.



### YESTERDAY'S APPROACH

- Unsafe
- Cost intensive
- Inconsistent



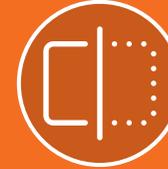
### TODAY'S APPROACH

- Safer
- Cost effective
- Faster, more consistent results

## HOW THE ALPHA-1 WORKS



1. The Alpha-1 accepts an existing 3D model of the environment.



2. It performs a scan to determine its precise position based on the 3D model being juxtaposed.



3. It finds "exceptions" from the original model which usually represent potential obstructions.



4. It then determines the most efficient blast plan – no wasted motion and no wasted time.



5. The blasting operator participates in the plan: chooses zones to blast and avoid.



6. A single button-push commences the autonomous blasting operation.

## DIGITIZING ALLOWS FOR A SIMULATION FIRST

An accurate simulation highlights problems before they happen and also provides more reliable estimates of time requirements.



## ALPHA-1 APPLICATIONS



BRIDGES



TANKS



MARINE



CONFINED SPACES



HAZARDOUS AREAS



BLAST ROOMS

# SABRE AUTONOMOUS SOLUTIONS

## OUR PARTNERSHIPS



TALK TO ONE OF OUR EXPERTS TODAY



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