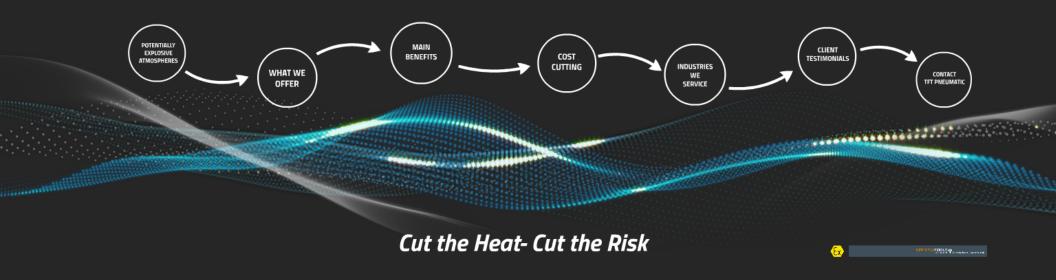
The World's "Coolest" Cutting-Edge Technology



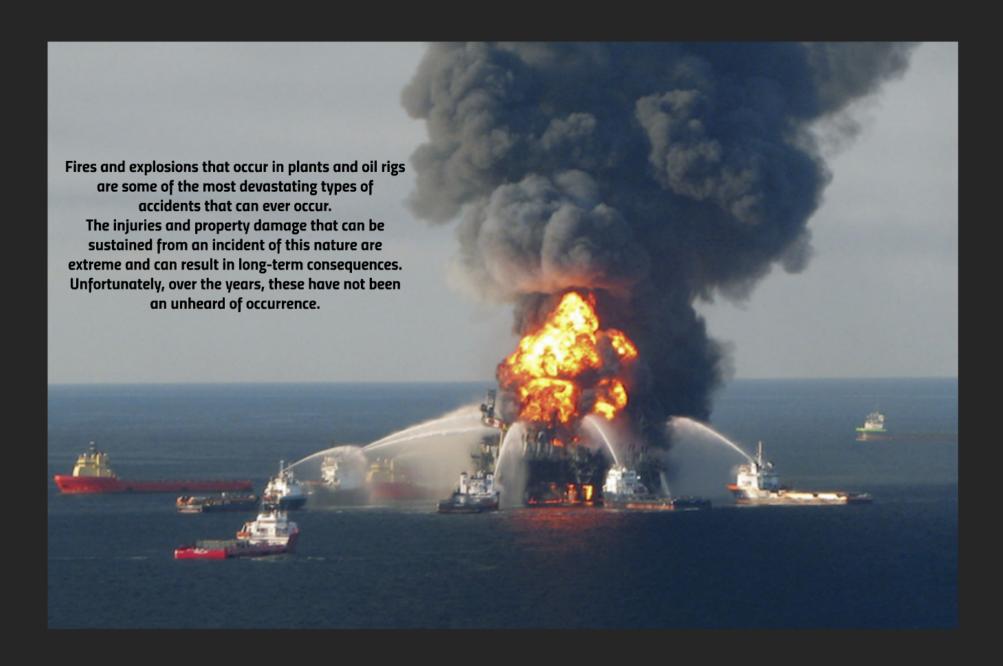


RECENT U.S. ACCIDENTS INVOLVING CUTTING & GRINDING









Motiva Enterprises Sulfuric Acid Tank Explosion Delaware City, DE

On July 17, 2001, an explosion occurred at the Motiva Enterprises refinery in Delaware City, Delaware. A work crew had been repairing a catwalk above a sulfuric acid storage tank farm when a spark from their hot work ignited flammable vapors in one of the tanks. This tank had holes in its roof and shell due to corrosion. The tank collapsed, and one of the contract workers was killed; eight others were injured. A significant volume of sulfuric acid was released to the environment.

Bethune Point Wastewater Plant Explosion Daytona Beach, FL

Two municipal workers died and another was seriously injured while attempting to remove a steel canopy above a methanol storage tank at the Bethune Point wastewater plant operated by the City of Daytona Beach. The workers were using a cutting torch that likely ignited methanol vapors from the tank and caused an explosion. The explosion led to the release of the total contents of the tank, approximately 3,000 gallons of methanol.

LONG BROTHERS OIL COMPANY NORPHLET, AR

The explosion happened while the workers were performing hot work to dissemble the tank. Sparks ignited vapors inside the tank and caused the fatal explosion. The fire then spread to the woods nearby and burned into the evening.

There must be a safer way...



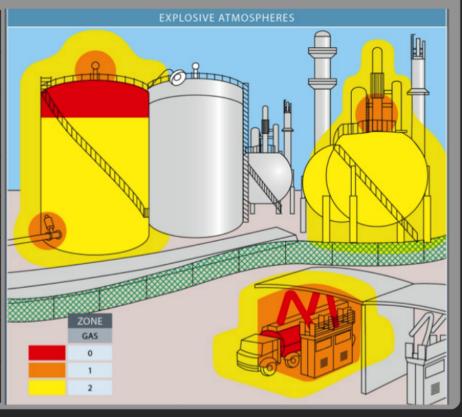
Some headlines are not worth making.

POTENTIALLY EXPLOSIVE ATMOSPHERES

AREAS

- ZONES-EUROPEAN & IEC METHOD
- DIVISIONS-NORTH AMERICAN METHOD

	European & IEC Classification	Definition of zone or division	North American Classification
	Zone 0 (gases)" G "	An area in which an explosive mixture is	Class I Division 1 (gases)
I	Zone 20 (dusts)" D "	continuously present or present for long periods	Class II Division 1 (dusts)
ı	Zone 1 (gases)" G "	An area in which an explosive mixture is likely to	Class I Division 1 (gases)
ı	Zone 21 (dusts)" D "	occur in normal operation	Class II Division 1 (dusts)
	Zone 2 (gases)" G "	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it will exist only for a short time	Class I Division 2 (gases)
ı	Zone 22 (dusts)" D "		Class II Division 2 (dusts)
			Class III Division 1 (fibres)
			Class III Division 2 (fibres)



HISTORY OF EXPLOSIVE ATMOSPHERE TEST

GexCon Safety Tools Test

Experiments were performed in explosive atmospheres of the following mixtures:

- propane and oxygen
- acetylene and oxygen

The mixtures were measured to maximize combustion (stoichiometric), which is more sensitive to ignition than natural gas.

Grinding and cutting were performed on various types of steel over flammable hydrocarbons.

Direct grinding was conducted over the heated flammable hydrocarbons.



The End Result



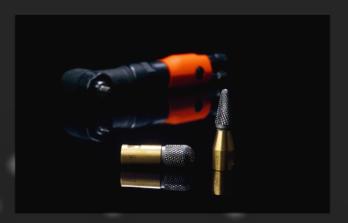
WHAT WE OFFER

Specialization of unique cold work surface preparation, grinding and cutting tools.

SOLUTIONS

Safety Tools has three categories of solutions:

- Cutting solutions
- Grinding solutions
- Creative, automated engineered solutions







WTFT-PNEUMATIC

TFT-Pneumatic's Surface Prep Tools for use in Explosive Environments, Class 1, Div 1 & 2



Before After

- * These images show the surface prep provided by TFT-Pneumatic's Tools for use in Explosive Environments. Classified as Cold Work No Hot Work Permit, No Shutdown.
 - ▶ Surface Prep SP-10
 - ➤ Surface Profile 2.5 mils (40-75 microns)
 - ▶ Pull test 1 adhesive break @1,550 psi 89% intermediate, 3% primer, 8% glue
 - ▶ Pull test 2 adhesive break @1,600 psi 85% intermediate, 15% primer

The only tool of its class that can work in and around explosive environments while providing unrivaled surface preparation.











SAFETY

Our products have been safely used worldwide for over a decade, offering substantial health, safety & environmental benefits

- Equipment adheres to ATEX guidelines
- Safe for use WITHOUT A
 HOT WORK PERMIT in
 - Ex gas zones 1 & 2
 - Dust zones 21 & 22
 - US Market Class 1
 Division 1 & 2

 Custom designed, certified pneumatic tools are safe for use in Potentially Explosive Atmospheres





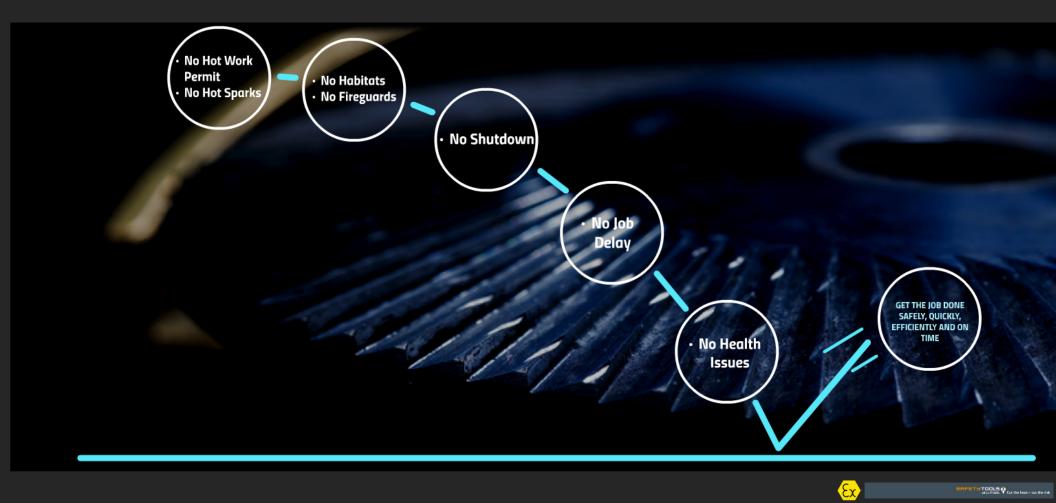
DURABILITY

Files and discs are harder than an industrial diamond with specially designed cutting teeth.

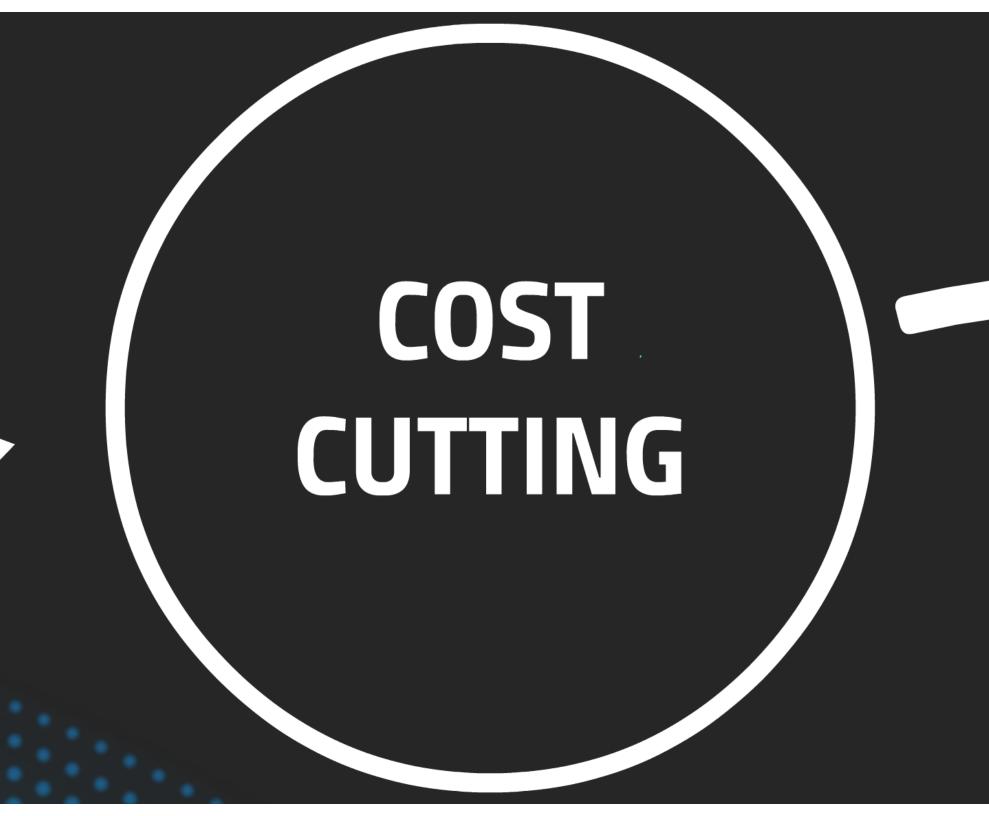
- Low friction/low heat build up
- Long lasting durability

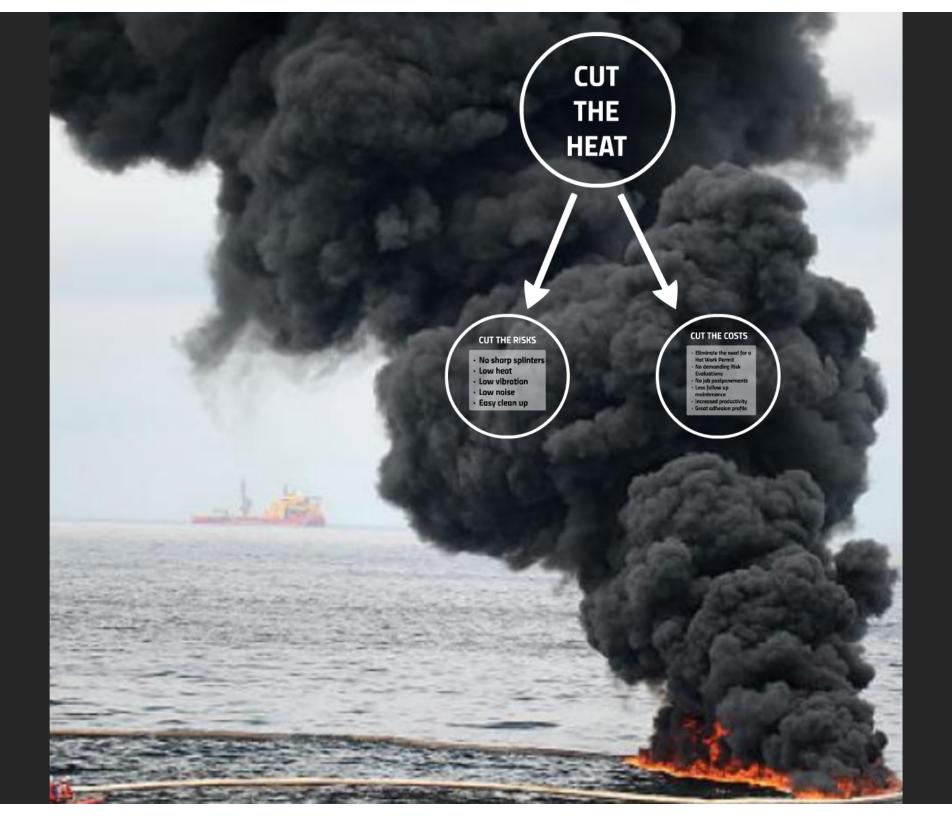


MAIN BENEFITS









CUT THE RISKS

- No sharp splinters
- Low heat
- Low vibration
- Low noise
- Easy clean up

CUT THE COSTS

- Eliminate the need for a Hot Work Permit
- No demanding Risk Evaluations
- No job postponements
- Less follow up maintenance
- Increased productivity
- Great adhesion profile

CONVENTIONAL METHOD VS TFT PNEUMATIC'S METHOD





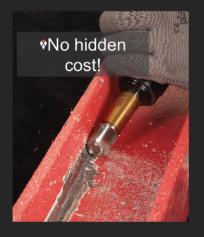




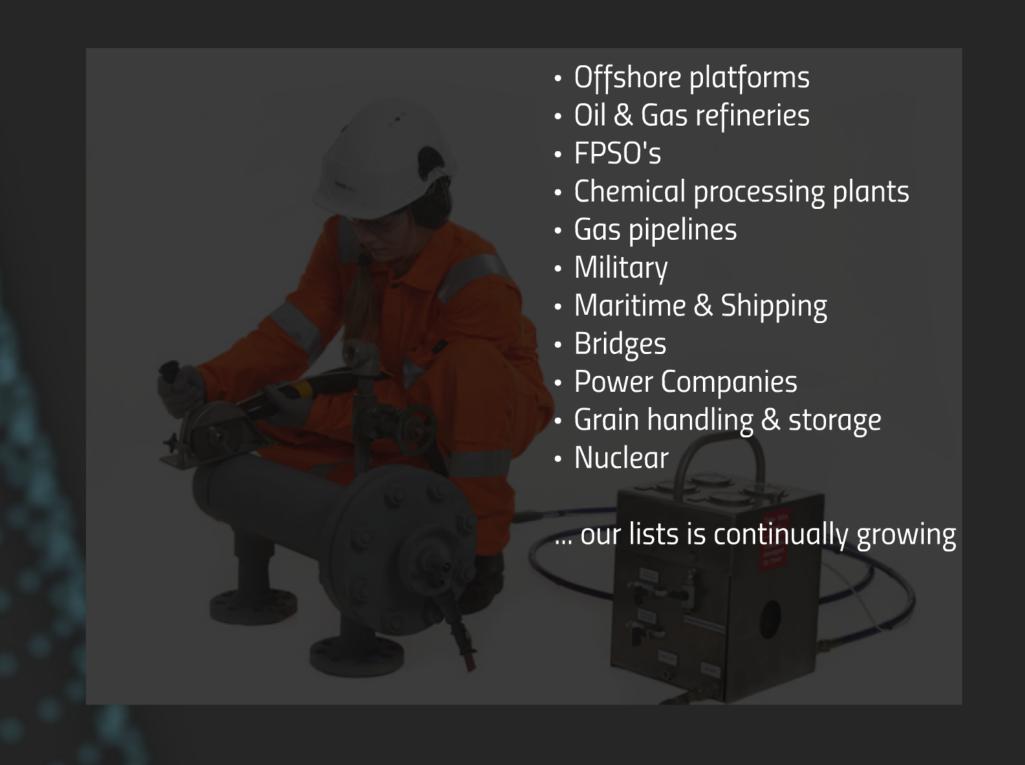
	CONVENTIONAL TOOLS	Cost (Job 1)	Cost (Job 2)	Cost (Job 3)
Χ	Tools	Low	Low	Low
1	Job Preparation	High	High	High
2	Risk Evaluations	High	High	High
3	Personnel Hours	High	High	High
4	Clean up	High	High	High
5	HAV Limits	High	High	High
6	Hot Work Permit	High	High	High
7	Habitats	High	High	High
8	Fireguards	High	High	High
9	Surface Damage (Sparks)	High	High	High
10	Production Shutdown	Huge	Huge	Huge
11	Job Delay	High	High	High
12	Health Issues	High	High	High



	SAFETY TOOLS	Cost (Job 1)	Cost (Job 2)	Cost (Job 3)
Ex	Tools	High	Low	Low
1	Job Preparation	Low	Low	Low
2	Risk Evaluations	Low	Low	Low
3	Personnel Hours	Low	Low	Low
4	Clean up	Low	Low	Low
5	HAV Limits	Low	Low	Low
6	Hot Work Permit	None	None	None
7	Habitats	None	None	None
8	Fireguards	None	None	None
9	Surface Damage (Sparks)	None	None	None
10	Production Shutdown	None	None	None
11	Job Delay	None	None	None
12	Health Issues	None	None	None



INDUSTRIES WE SERVICE





SAFETY TOOLS SOLUTIONS

Our Grinding and Cutting Solutions come safely packed in a custom Peli case lined with pink anti-static foam and include:

- **⋄**DNV certification
- *****EC Declaration
- **V**User manual
- ♥Tools and accessories.







Certificates & Reports We Offer

Certificates & Reports

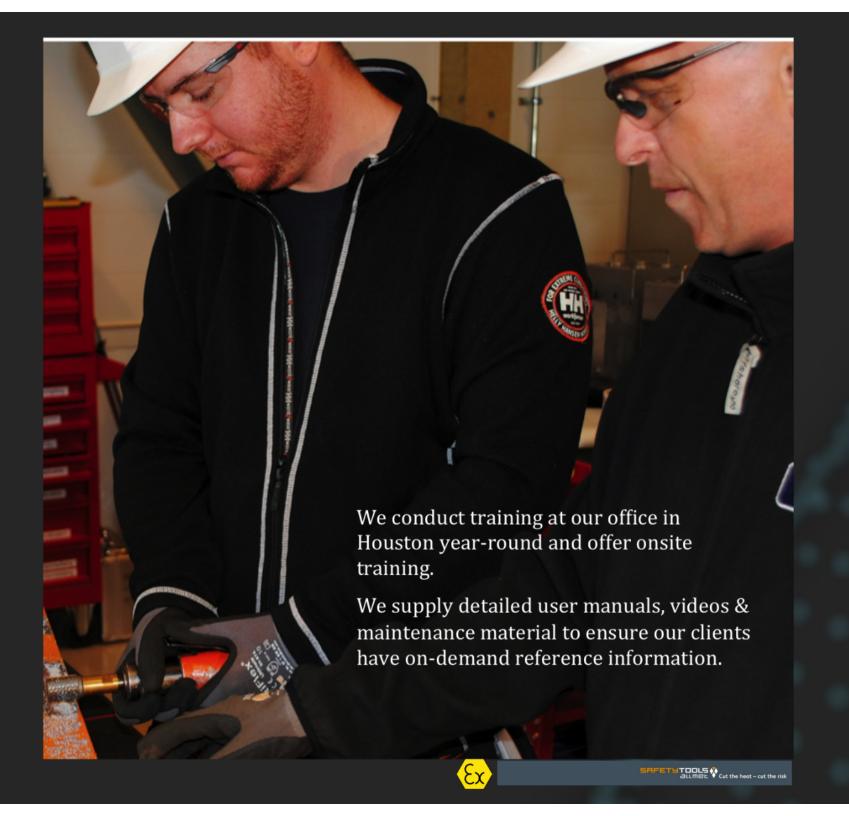
- DNV Grinding Certificate & Report (T3)
- DNV Cutting Certificate & Report (T4)

Testing

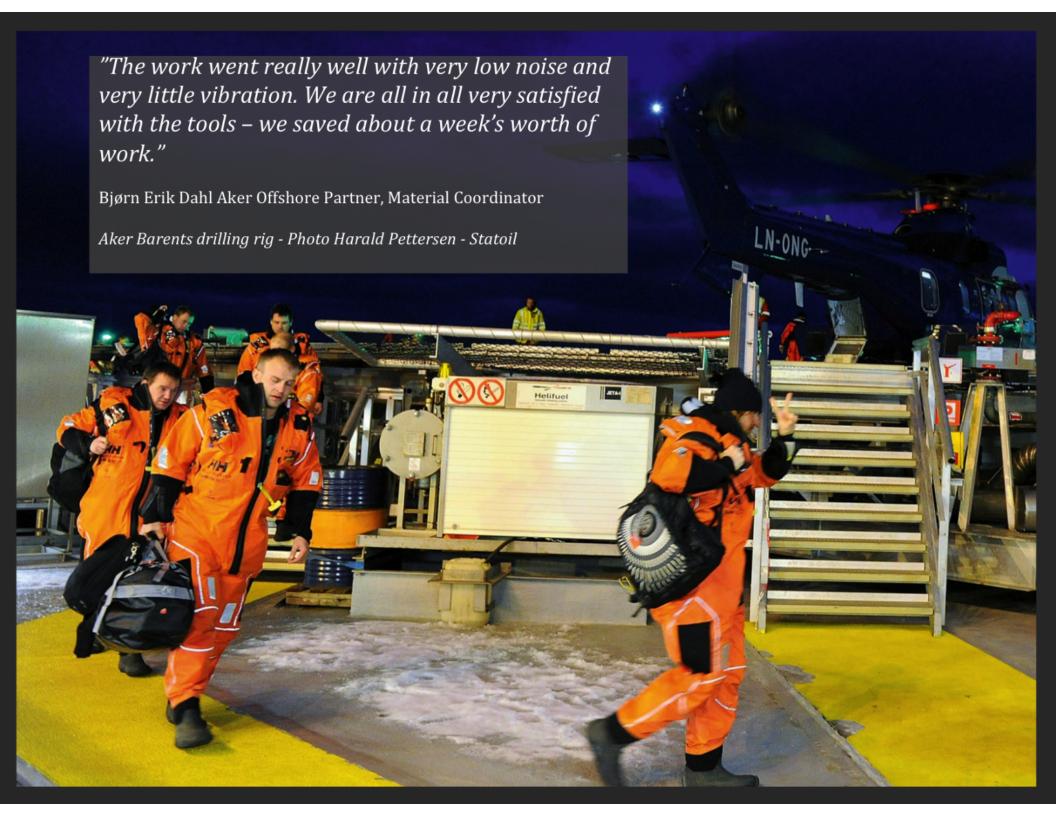
- Explosion Gexcon
- Adhesion Jotun, CorrPro, International Coatings
- Vibration ATR Group
- ▼ Isocyanides Institute for Chemical Analysis (Marianne Dalene)
- Noise Multiconsult





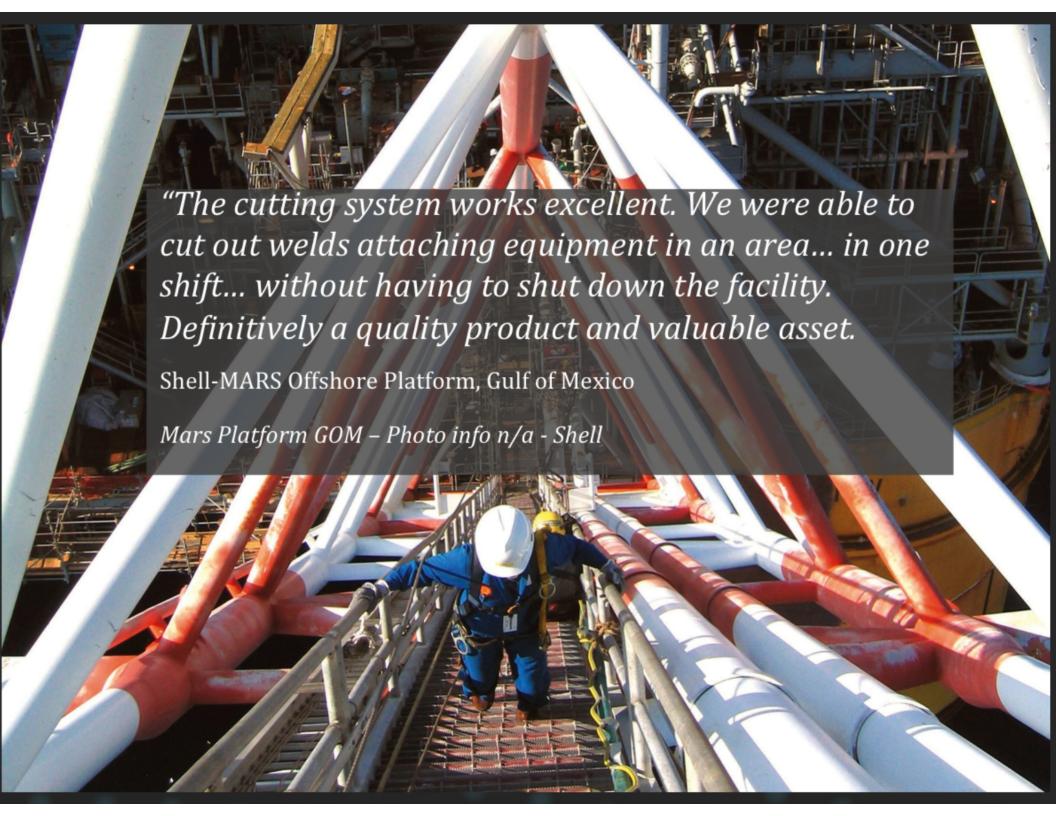


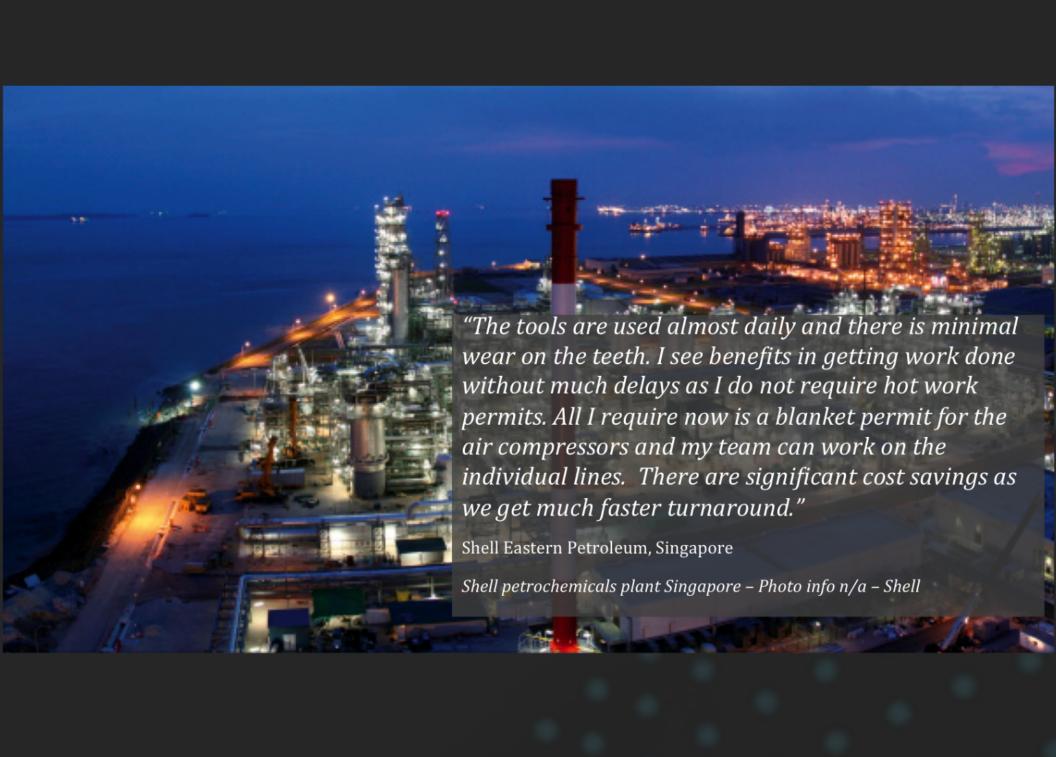
CLIENT TESTIMONIALS











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