

► The coolest cutting-edge technology in the world...



## Product Catalogue

Cut the heat - Cut the Risk

# Custom tooling and Solutions



## A-0410 Pendulum arm

Is a magnet with a swing arm that makes it easier to use with the cutting solution from Safety Tools Allmet. It will increase efficiency significantly and the lifetime of the cutting disc will increase.



## A-4150 Pipe Bungie

Is a bungee cord that can be attached to our grinding handles. It will make the work underneath pipes easier. But in general- it will make it easier to grind on pipes as the tool is secured to the pipe



## A-0320 Cutting guide Jr

Is a portable automated cutting solution for work in Ex/Hazardous areas. It is designed to cut through steel and can be mounted on walls and even on the ceilings with magnets og vaccume feets. The cutting process is controlled by a pneumatic remote operator station where the operator is in control of all functions on the guide.

We are also handling special requests from our customers. In need of a special designed file or adapter to get the job done? In need of a special function or a special range of tooling? Do not hesitate to contact us with any questions or suggestions.

# Safety Tools Solutions

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## Categories

Safety Tools has two primary categories of solutions. They are Cutting Solutions & Grinding Solutions (surface preparation and maintenance).

## Air Tools

Safety Tools are powered by pneumatic tools that Safety Tools Allmet developed in partnership with Fuji. Our Air tools can only be purchased from Safety Tools Allmet or one of our authorized agents (see page 16–17). They cannot be purchased from Fuji or their representatives - unless they are an authorized STA agent. Safety Tools air tools are all specially designed and designated safe to use in an explosive atmosphere (Ex dust and gas zones 1 and 2) without a hot work permit.

## Files & Discs

Safety Tools Files & Discs are composed primarily of Tungsten Carbide. There are also special, TOP SECRET elements infused into the composite. The combination of the molecular components and the fabrication give our files and discs hardness between an industrial diamond and a natural diamond. This along with the patented design of the teeth adds longevity and the ability to grind on steel efficiently at slow speeds. The fragments produced after grinding with Safety Tools are easy to clean up, large and blunt. This offers many safety & operational benefits compared to conventional tools. All without HOT SPARKS!

## Kit options

Safety Tools has 6 standardized Grinding Suitcase options & 3 standardized Cutting System options we have developed over the years for our customers. We also offer on-demand custom kits to meet our client's needs.

## Water Control Box (Cutting & Weld Seam Removal)

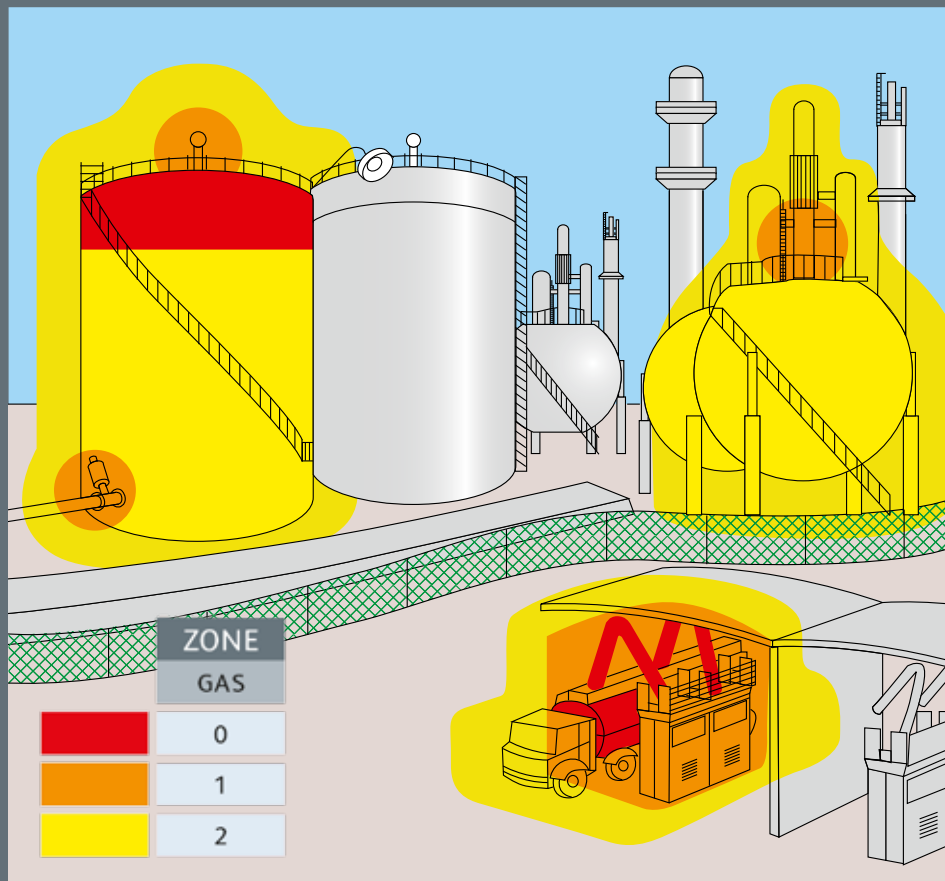
Our Cutting & Weld Seam kits utilize a water control box. Our water control boxes are developed by STA solutions. The water cools our cutting and grinding tools down to a T4 rating. An added benefit is the water lubricates the grinding process and gives our discs a longer lifespan. Safety Tools Cutting & Weld Seam discs can be re-cut between 3- 5 times at substantial savings. Our grinding files and disks cannot be re-cut.

## Accessories

All of our kits come with specially designed accessories that contribute to optimal safety and operation.

## Training and Maintenance

Proper training and maintenance is critical. Safety Tools conducts ongoing training at our corporate office and at our client's facilities. We train and certify every Agent offering Safety Tools. Along with hands on training, Safety Tools supplies detailed user manuals videos & maintenance material to enable our clients to be more self sufficient.



# Ex Zone

In Europe, hazardous areas are classified into three zones which are directly related to the predicted occurrence of when and the duration that an explosive atmosphere may be present in the area. These zones are:

**ZONE 0:** Where an explosive atmosphere is continuously present, or present for long periods of time - Continuous.

**ZONE 1:** Where an explosive atmosphere is likely to occur in normal operation - Intermittent.

**ZONE 2:** Where an explosive atmosphere is not likely to occur in normal operation and if it does occur, it will exist only for a short time - Abnormal.

These standards are subdivided into two groups: I and II. Group I is for apparatus to be used in mines where the danger is represented by methane gas and coal dust. Group II is for apparatus to be used in surface industries where the danger is represented by gas and vapor that has been subdivided into three groups: A, B and C.



 CERTIFICATES FROM SAFETY TOOLS ALLMET

HAZARD TYPE			
	Continuous	Intermittent	Abnormal
CEC/NEC (N. America)	Division 1	Division 1	Division 2
IEC/ATEX (EU)	Zone 0	Zone1	Zone 2

The diagram illustrates four examples of ATEX certification labels, each with a breakdown of its components:

- Label 1:** EX Logo, equipment group II, For use in zones 1-2, G, Tested for misuse c, T3, Max Temp. 200°C.
- Label 2:** EX Logo, equipment group II, For use in zones 1-2, G, Tested for misuse c, T4, Max Temp. 135°C.
- Label 3:** EX Logo, equipment group II, For use in zones 1-2, D, Tested for misuse c, 101°, Max Temp. 101°C.
- Label 4:** EX Logo, equipment group II, For use in zones 1-2, D, Tested for misuse c, 185°, Max Temp. 185°C.

The main difference between the North American and the European classification of hazardous locations is that there is currently no direct equivalent to the European Zone 0 in the North American system; however, existing standards may be revised to allow an equivalent representation.

Many Countries publish their own National Standards. ATEX is highly regarded in: Australia, Saudi Arabia, South America & Asia. The US and Canada have a similar system to ATEX but use divisions instead of zones. Many North American companies have incorporated ATEX directives

Our tools is certified both for gas zones 1 and 2 and also for Dust zones 21 and 22



# Safety Tools Cold grinding solutions



## Grinding solutions

Safety Tools has 10 Grinding kits that we have developed over the years for our clients. We also offer on-demand custom options to meet new demands. All Safety Tools grinding solutions can be further engineered by request. Please see our innovation and quality control section.

1. [A-0057](#) - All Around solution with Rough boy
2. [A-0054](#) - All Around solution
3. [A-0058](#) - Steel Grinding solution
4. [A-0059](#) - Surface Protection solution
5. [A-0055](#) - Ship Owners solution
6. [A-0056](#) - Rough Boy solution
7. [A-0049](#) - Surface solution small
8. [A-0048](#) - Coating Maintenance Solution Eco
9. [A-0047](#) - Coating Maintenance Solution
10. [A-0056](#) - Wrap solution



# Grinding Solutions

## Air Tools

Safety Tools are powered by pneumatic tools that Safety Tools Allmet developed in partnership with Fuji. Our air tools can only be purchased from Safety Tools Allmet or one of our exclusive importers. They cannot be purchased directly from Fuji. Safety Tools air tools are specially designed to use with our files & discs in hazardous work areas. They are designated safe to use in Ex dust and gas zones 1 and 2 and backed by the DNV.

our clients is that our files last 100 of times longer than a conventional high quality grinding file or disc. The fragments produced after grinding with Safety Tools are easy to clean up, large and blunt. This offers many safety & operational benefits compared to conventional tools. All without HOT SPARKS!

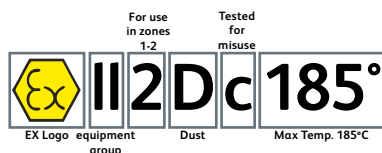
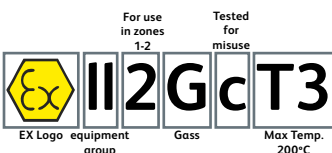
## Files & discs

Safety Tools Files & Discs are composed primarily of tungsten carbide. There are also secret elements infused into the composite. The combination of the molecular components and the fabrication give our files and discs hardness between an industrial diamond and a natural diamond. The hardness and the design of the teeth increase the longevity of our files and disc. The feedback from many of

## Accessories

All of our grinding kits come with specially designed accessories that contribute to optimal safety and operation.

## DNV Grinding tools certificate



### STRAIGHT GRINDER 3000



Prod.no.	Speed	Ref. no	⚖️ (g)	Air inlet
A-0107	3000 rpm	FG-2VX-50	894	1/4" NPT

### ANGLE GRINDER 2000-4



Prod.no.	Speed	Ref. no	⚖️ (g)	Air inlet
A-0104	2000 rpm	FCD-6X-51 2000	1700	1/4" NPT

### ROTATING FILE For STA A-0107 / 0104

Prod.no.			
A-0001 Slim		Total length	65mm
		Teeth	27mm
		⚖️ (g)	76g
A-0002 Bow cone		Total length	70mm
		Teeth	31mm
		⚖️ (g)	114g
A-0003 Straight cone		Total length	70mm
		Teeth	31mm
		⚖️ (g)	110g
A-0004 Little papa		Total length	65mm
		Teeth	27mm
		⚖️ (g)	182g
A-0005 Round boy		Total length	65mm
		Teeth	27mm
		⚖️ (g)	168g
A-0006 Al-ti-char		Total length	65mm
		Teeth	26mm
		⚖️ (g)	78g
A-0007 Shorty		Total length	57mm
		Teeth	17mm
		⚖️ (g)	194g
A-0008 Big papa		Total length	72mm
		Teeth	32mm
		⚖️ (g)	282g
A-0009 B Big boy b		Total length	95mm
		Teeth	32mm
		⚖️ (g)	340g

### ANGLE GRINDER 2000-8



Prod.no.	Speed	Ref. no	⚖️ (g)	Air inlet
A-0108	2000 rpm	FAS-1X-50	842	1/4" NPT

### ROTATING FILE For STA A-0108

Prod.no.			
A-0009 C Big boy c		Total length	95mm
		Teeth	32mm
		⚖️ (g)	340g
A-0010 Rough boy		Total length	118mm
		Teeth	51mm
		⚖️ (g)	826g

### ANGLE GRINDER 1000-5



Prod.no.	Speed	Ref. no	⚖️ (g)	Air inlet
A-0105	1000 rpm	FCD-10X-52	2400	1/4" NPT

### GRINDING DISC FOR PAINT FOR STA A-0105



Max 1000 RPM

Prod.no.	⚖️ (g)	Dim
A-0500	410	Ø 80 mm



## A-0057 – ALL AROUND WITH ROUGH BOY SOLUTION

18 kg



Air tools no.	Air tool name	File no.	File name	Disc no.	Disc name	Accessories
A-0104	Angle 2000 - 4	A-0001	Slim	A-0500	GDP Disc	A-0060
A-0105	Angle 1000 - 5	A-0002	Bow cone			A-0060RB
A-0107	Straight 3000	A-0003	Straight cone			A-0062
A-0108	Angle 2000 - 8	A-0004	Little papa			A-0065
A-0108	Angle 2000 - 8	A-0005	Round boy			A-0068
		A-0006	Al-ti-char			A-0068
		A-0007	Shorty			A-0068
		A-0008	Big papa			A-0068
			Big boy b			A-0068
			Big boy c			A-0085
		A-0010	Rough boy			

Safety Tools optimal corrosion and surface maintenance solution.

## A-0054 – ALL AROUND SOLUTION

17 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0104	Angle 2000 - 4	A-0001	Slim	A-0500	GDP Disc	A-0060
A-0105	Angle 1000 - 5	A-0002	Bow cone			A-0062
A-0107	Straight 3000	A-0003	Straight cone			A-0065
A-0108	Angle 2000 - 8	A-0004	Little papa			A-0068
		A-0005	Round boy			A-0068
		A-0006	Al-ti-char			A-0068
		A-0007	Shorty			A-0068
		A-0008	Big papa			A-0085
			Big boy b			
			Big boy c			

Safety Tools second most optimal corrosion and surface maintenance solution.

## A-0058 – STEEL GRINDING SOLUTION

13 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0107	Straight 3000	A-0002	Bow cone			A-0060
A-0108	Angle 2000 - 8	A-0003	Straight cone			A-0062
		A-0004	Little papa			A-0068
		A-0005	Round boy			A-0068
		A-0006	Al-ti-char			A-0085
		A-0007	Shorty			
		A-0008	Big papa			
		A-0008	Big papa			
			Big boy c			
			Big boy c			

Developed for contractors to remove corrosion and steel from structures

## A-0059 – SURFACE PROTECTION SOLUTION

17 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0104	Angle 2000 - 4	A-0003	Straight cone	A-0500	GDP Disc	A-0060
A-0105	Angle 1000 - 5	A-0004	Little papa			A-0062
A-0107	Straight 3000	A-0005	Round boy			A-0065
			Big boy b			A-0068
			Big boy b			A-0068
						A-0068
						A-0085

Developed for surface protection and maintenance companies as an optimal system for removing paint and corrosion from steel. These tools will produce a surface profile that is ready to paint with strong adhesion performance.

## A-0055 – SHIP OWNERS SOLUTION

15 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0105	Angle 1000 - 5	A-0003	Straight cone	A-0500	GDP Disc	A-0062
A-0107	Straight 3000	A-0004	Little papa			A-0065
		A-0005	Round boy			A-0068
						A-0068
						A-0085

Developed for general corrosion maintenance and surface preparation on boats.

## A-0056 – ROUGH BOY SOLUTION

7 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0108	Angle 2000 - 8	A-0010	Rough boy	A-0060RB
				A-0082

Developed for general corrosion maintenance and surface preparation on larger surface areas.

A replacement for spot blasting.

## GRINDING SOLUTIONS ACCESSORIES



Drop Safety Device  
A-0068

Straight grinder Cooling cap  
A-0062



Covering for A-0105 Angle grinder  
A-0065

Handle for A.0104/8 angle grinders  
Use with A-0009C/B Files  
A-0060



Handle for A-0108 Angle grinder. for  
A-0009 and A-0010 Files.  
A-0060RB

## A-0049 – SURFACE SOLUTION SMALL

7,5 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0104	Angle 2000 - 4	A-0001	Slim	A-0060
A-0107	Straight-3000	A-0002	Bow cone	A-0082
		A-0003	Straight cone	
		A-0005	Round Boy	
		A-0006	Al-Ti-Char	
		A-0008	Big Papa	

This kit is optimal to repair pipe and structure surface before new paint layer is added

## A-0048 – COATING MAINTENANCE SOLUTION ECO

7 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0108	Angle 2000 - 8	A-0003	Straight cone	A-0060RB
A-0107	Straight 3000	A-0004	Little papa	A-0082
		A-0005	Round boy	
		A-0010	Rough Boy	

The Eco solution is a smaller, more affordable, version of the Coating Maintenance Solution. It will help you stay ahead of your maintenance schedule and avoid extra cost.

## A-0047 – COATING MAINTENANCE SOLUTION

13,5 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0105	Angle 1000 - 5	A-0001	Straight cone	A-0060RB
A-0107	Straight 3000	A-0003	Little papa	A-0085
A-0108	Angle 2000 - 8	A-0004	Round boy	
		A-0005	Rough Boy	
		A-0010		

This kit contains three of our Ex Air Tools, five of our cold Grinding Files and our cold Grinding Disc. It will pay for itself many times over by avoiding delays and shutdowns. It is Ex certified as safe to use in Ex gas zones 1 & 2 and dust zones 21 & 22. It is used around the globe.

## A-0052 – WRAP SOLUTION

9,3 kg



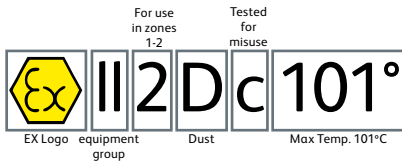
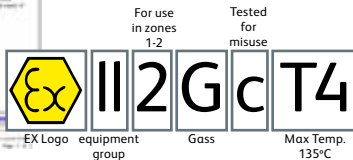
Air tools no.	Air tool name	File no.	Name	Accessories
A-0108	Angle 2000 - 8	A-0001	Straight cone	A-0060RB
A-0107	Straight 3000	A-0003	Little papa	A-0085
		A-0004	Round boy	
		A-0005	Rough Boy	
		A-0010		

Our Wrap Solution was developed for the increasingly popular wrap repair industry. This solution was tested, endorsed and is now used around the world for surface preparation. Its main uses are; pipelines rehabilitation, pipe support reinforcement and general plant maintenance. This Safety Tools Solution keeps your repairs and maintenance Cold.

# Ex Cutting Tools



Cutting tools EX certificate



## AIR TOOL



Our Cutting solutions utilize our A-0105 air tool. The addition of the water control box increases the rating of the air tool to a T4.

Different disc guards are used with our Weld seam disc and Cutting disc. Our Cutting disc also has additional adapters (chucks).

Air tools no.	Name	Ref. no	Speed (rpm)	ΔT (g)	Air inlet
A-0105-T4	Angle 1000 – 5 (T4)	FCD-10X-52	1000	2400	1/4" NPT

## DISCS



Safety Tools cutting and weld seam disc have the same properties as our Grinding files and discs. Both our Cutting and Weld Seam discs can be re-cut an average of 3 times.



Disc no.	Name	Diameter	Thickness	ΔT (g)
A-0502	Cutting Disc	110mm	5mm	652

## WATER CONTROL BOX



Unique to our Cutting solutions is a water control box. The water cools & lubricates our Cutting & Weld Removal solutions to a T4 rating. The purpose of the box is to regulate the flow of air and water.

### Key adjustment settings:

- WATER INLET = 4 Bar minimum
- WATER ADJUST = 2.2 – 2.5 Bars
- AIR INLET = 7.3 Bars optimal
- AIR OUTLET = 6.3 Bar Max

# Kits

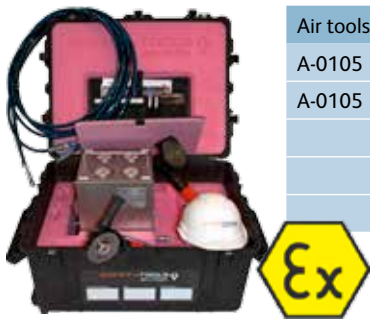


## Cutting solutions

Safety Tools has 3 Cutting kits that we have developed over the years for our clients. Like our grinding, we offer on-demand custom options to meet new demands. All Safety Tools Cutting solutions can be further engineered and developed by STA solutions. Please see our innovation and quality control section

1. [A-0300](#) - Combined Solution /Cutting & Weld seam.
2. [A-0301](#) - Cutting Solution
3. [A-0302](#) - Weld Seam Solution

### A-0300 COMBINED SOLUTION FOR CUTTING & WELD SEAM REMOVAL KIT



Air tools no.	Air tool name	Disc no.	Name	Accessories	Description
A-0105	Angle 1000-T4	A-0502	Cutting Disc	A-0310	Water Control Box
A-0105	Angle 1000-T4	A-0503	Weld Removal Disc	A-0071	Armoured hose
				A-0073	Cutting Guard
				A-0074	Weld Removal Guard
				A-0081	Case

### A-0301 CUTTING SOLUTION KIT



Air tools no.	Air tool name	Disc no.	Name	Accessories	Description
A-0105	Angle 1000-T4	A-0502	Cutting Disc	A-0310	Water Control Box
				A-0071	Armoured hose
				A-0073	Cutting Guard
				A-0081	Case

### A-0302 WELD SEAM REMOVAL KIT



Air tools no.	Air tool name	Disc no.	Name	Accessories	Description
A-0105	Angle 1000-T4	A-0503	Weld Removal Disc	A-0310	Water Control Box
				A-0071	Armoured hose
				A-0074	Weld Removal Guard
				A-0081	Case

Cut the heat – cut the cost

# Companies that trust Safety Tools Allmet's "cool" technology



**BOMBARDIER**



**HALLIBURTON**



Cut the heat – cut the cost



### Safety Tools Benefits:

- No need for – Hot Work Permit
- No demanding Risk Evaluations
- No job postponements
- No Need for Habitats
- No Need for Fireguards
- No Hot Sparks
- No dangerous sharp spinters
- Low heat (30C-60C average)
- Low vibration – (2.5 m/s average)
- Low Noise (80-85 dB average)
- Roughness Profile 40 – 75 micron's
- Disks & Files are Harder than an Industrial Diamond – last long



### Safety Tools Allmet AS

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### Training

we conduct ongoing training at our office in Sotra Norway year-round and offer onsite training. All Safety Tools Authorized Importers conduct training certification.

[www.safetytools.no](http://www.safetytools.no)