

▶ 2022 - Product catalogue

The “coolest” EX-certified
Grinding and Cutting
tools in the world



Cut the heat – Cut the risk

Safety Tools Allmet Solutions

Categories

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

Air Tools

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

Files & Discs

Safety Tools Allmet 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 add longevity and the ability to grind on steel efficiently at slow speeds. The fragments produced after grinding with Safety Tools Allmet 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 Allmet has ten standardized Grinding Suitcase options and three 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.

Accessories

All our kits come with specially designed accessories that contribute to optimal safety and operation. There are also helping tools available that increases the lifetime of our cutting discs

Training and Maintenance

Proper training and maintenance is crucial. Safety Tools Allmet conducts training at our corporate office and at our client's facilities. We train and certify every Agent that is offering Safety Tools Allmet. We also supply detailed user manuals videos and maintenance material.

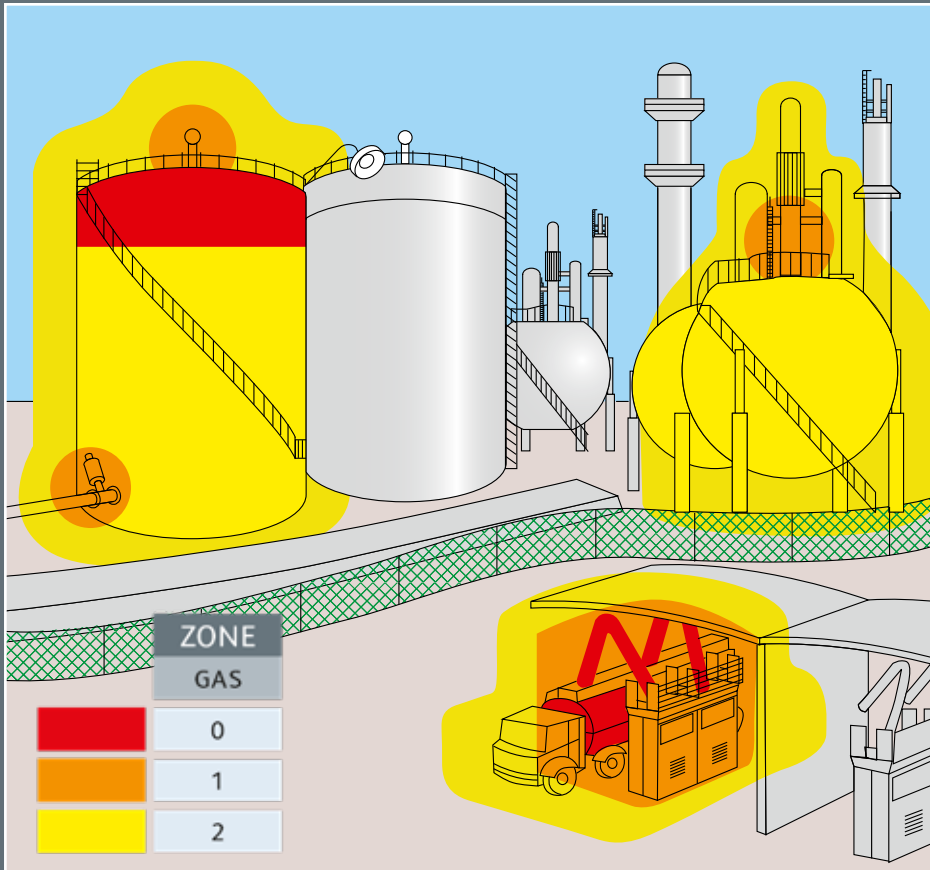
We can also conduct online training through video conference meetings. This applies for both our cutting and grinding tools.



Safety Tools Allmet Benefits

- *EX-Certified by DNV*
- *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 (30–60°C average)*
- *Low vibration – (2.5 m/s average)*
- *Low noise (80–85 dB average)*
- *Average Roughness Profile of 40–75 micron*
- *Disks and files are harder than an Industrial Diamond – Long lasting*





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.

THE EX CERTIFIED TOOLS FROM SAFETY TOOLS ALLMET IS MARKED WITH THE FOLLOWING ATEX MARKINGS

	For use in zones 1-2	Tested for misuse	
	II 2 G c		T3
EX Logo	equipment group	Gass	Max Temp. 200°C
	For use in zones 1-2	Tested for misuse	
	II 2 G c		T4
EX Logo	equipment group	Gass	Max Temp. 135°C
	For use in zones 1-2	Tested for misuse	
	II 2 D c		101°
EX Logo	equipment group	Dust	Max Temp. 101°C
	For use in zones 1-2	Tested for misuse	
	II 2 D c		185°
EX Logo	equipment group	Dust	Max Temp. 185°C



EX-Certified Grinding Solutions

Air Tools

Our 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 Allmet 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.

Files & discs

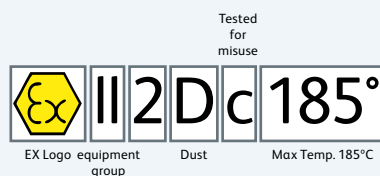
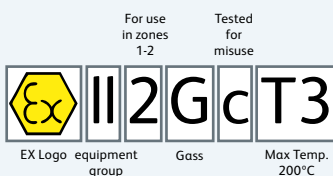
Safety Tools Files & Discs are composed primarily of tungsten carbide. There are also secret elements infused into the composite. The combination of the molecular components and the fabrication give our files and discs hardness between an industrial diamond and a natural diamond.

The hardness and the design of the teeth increase the longevity of our files and disc. The feedback from many of our clients is that our files last 100 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 and operational benefits compared to conventional tools. **ALL WITHOUT HOT SPARKS!**

Accessories

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

DNV GRINDING TOOLS CERTIFICATE



Product Range Grinding Tools



A-0107 FUJI STRAIGHT GRINDER (FG-2VX-50)



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

A-0104 FUJI ANGLE GRINDER (FCD-6X-51)



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

ROTATING FILE

WITH A-0107 / 0104

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

A-0108 Fuji Angle Grinder (FAS-1X-50)



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

ROTATING FILE WITH 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

A-0105 Fuji Angle Grinder (FCD-10X-52)



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

GRINDING DISC FOR PAINT WITH A-0105



Max 1000 RPM

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

GRINDING SOLUTION ACCESSORIES

Cooling cap for Straight Grinder
A-0062

Handle for A-0104 / A-0108 angle grinders.
Use with A-0009C/B Files
A-0060

Drop Safety Device
A-0068

Covering for A-0105 Angle Grinder
A-0065

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





▶ Ex-Certified Grinding Solutions

Grinding solutions

Safety Tools Allmet has ten 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 Allmet grinding solutions can be further engineered by request.

1. [A-0047](#) - Coating Maintenance Solution
2. [A-0048](#) - Coating Maintenance ECO
3. [A-0049](#) - Surface Solutions Small
4. [A-0052](#) - Wrap Solution
5. [A-0054](#) - All-around Solution
6. [A-0055](#) - Ship Owners Solution
7. [A-0056](#) - Rough Boy Suitcase complete
8. [A-0057](#) - All Around with Rough Boy Solution
9. [A-0059](#) - Surface Protection Solution
10. [A-0058](#) - Steel Grinding Solution

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	FCD-6X-51 - Angle	A-0001	Slim	A-0500	GDP Disc	A-0060
A-0105	FCD-10X-52 - Angle	A-0002	Bow Cone			A-0060RB
A-0107	FG-2VX-50 - Straight	A-0003	Straight Cone			A-0062
A-0108	FAS-1X-50 - Angle	A-0004	Little Papa			A-0065
A-0108	FAS-1X-50 - Angle	A-0005	Round Boy			A-0068
		A-0006	Al-Ti-Char			A-0068
		A-0007	Shorty			A-0068
		A-0008	Big Papa			A-0068
		A-0009B	Big Boy B			A-0068
		A-0009C	Big Boy C			A-0085
		A-0010	Rough Boy			

If you are looking for the ultimate package solution for spark-free grinding within surface treatment, steel grinding and corrosion removal, look no further. All Around with Rough Boy Solution contains everything you need.



A-0054 – ALL AROUND SOLUTION

17 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0104	FCD-6X-51 - Angle	A-0001	Slim	A-0500	GDP Disc	A-0060
A-0105	FCD-10X-52 - Angle	A-0002	Bow Cone			A-0062
A-0107	FG-2VX-50 - Straight	A-0003	Straight Cone			A-0065
A-0108	FAS-1X-50 - Angle	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
		A-0009B	Big Boy B			
		A-0009C	Big Boy C			

Our All Around Solution is our second most optimal system for steel grinding, corrosion control and surface maintenance. All Around Solution includes everything you need for spot maintenance.



A-0058 – STEEL GRINDING SOLUTION

13 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0107	FG-2VX-50 - Straight	A-0002	Bow Cone	A-0060
A-0108	FAS-1X-50 - Angle	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	
		A-0009C	Big Boy C	
		A-0009C	Big Boy C	

Our Steel Grinding Solution is specially designed for businesses. It contains air tools and grinding files adapted to different working areas for steel, surfaces and aluminium.



A-0059 – SURFACE PROTECTION SOLUTION

17 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0104	FCD-6X-51 - Angle	A-0003	Straight Cone	A-0500	GDP Disc	A-0060
A-0105	FCD-10X-52 - Angle	A-0004	Little Papa			A-0062
A-0107	FG-2VX-50 - Straight	A-0005	Round Boy			A-0065
		A-0009B	Big Boy B			A-0068
		A-0009B	Big Boy B			A-0068
						A-0068
						A-0085

The Surface Protection Solution is developed for companies that work with surface treatment. This solution is an optimal system for paint and corrosion removal. With this solution you will achieve a surface profile with SSPC-SP-11 standard, ready for paint with good adhesion levels.



A-0055 – SHIP OWNERS SOLUTION

15 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0105	FCD-10X-52 - Angle	A-0003	Straight Cone	A-0500	GDP Disc	A-0062
A-0107	FG-2VX-50 - Straight	A-0004	Little Papa			A-0065
		A-0005	Round Boy			A-0068
						A-0068
						A-0085

The Ship Owner solution was developed for general corrosion removal maintenance and surface preparation for ships. This solution will help you stay ahead of the maintenance schedule on board and avoid major costs with unplanned land docking.



A-0056 – ROUGH BOY SOLUTION

7 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0108	FAS-1X-50 - Angle	A-0010	Rough Boy	A-0060RB
				A-0082
				A-0085

Our Rough Boy Solution was developed for general corrosion maintenance and surface preparation on larger surface areas – as a replacement for spot blasting.



A-0049 – SURFACE SOLUTION SMALL

7,5 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0104	FCD-6X-51 - Angle	A-0001	Slim	A-0060
A-0107	FG-2VX-50 - Straight	A-0002	Bow Cone	A-0082
		A-0003	Straight Cone	
		A-0005	Round Boy	
		A-0006	Al-Ti-Char	
		A-0009B	Big Boy B	

Our Surface Solution Small is a smaller version of our Surface Protection Solution that was developed for surface protection companies as an optimal system for removing paint from steel and producing surface profile ready to paint with strong adhesion levels.



A-0048 – COATING MAINTENANCE SOLUTION ECO

7 kg



Air tools no.	Air tool name	File no.	Name	Accessories
A-0108	FAS-1X-50 - Angle	A-0003	Straight Cone	A-0060RB
A-0107	FG-2VX-50 - Straight	A-0004	Little Papa	A-0082
		A-0005	Round Boy	
		A-0010	Rough Boy	

Coating Maintenance Solution Eco is designed to keep you ahead of the maintenance plan while saving time by eliminating demanding risk assessments and costs related to shutdowns, fire guards, hot work permits, habitats and demanding cleanup work.



A-0047 – COATING MAINTENANCE SOLUTION

13,5 kg



Air tools no.	Air tool name	File no.	Name	Disc no.	Disc name	Accessories
A-0105	FCD-10X-52 - Angle	A-0001	Slim	A-0500	GDP Disc	A-0060RB
A-0107	FG-2VX-50 - Straight	A-0003	Straight Cone			A-0065
A-0108	FAS-1X-50 - Angle	A-0004	Little Papa			A-0085
		A-0005	Round Boy			
		A-0010	Rough Boy			

Our Coating Maintenance Solution was developed for an optimal system for paint removal and producing a surface profile ready to paint – with strong adhesion levels.



A-0052 – WRAP SOLUTION

9,3 kg



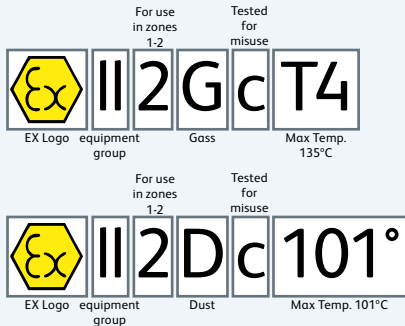
Air tools no.	Air tool name	File no.	Name	Accessories
A-0107	FG-2VX-50 - Straight	A-0001	Slim	A-0060RB
A-0108	FAS-1X-50 - Angle	A-0002	Bow Cone	A-0068 (2)
		A-0003	Straight Cone	A-0082
		A-0005	Round Boy	
		A-0007	Shorty	
		A-0008	Big Papa	
		A-0010	Rough Boy	

This solution was tested, endorsed, and is now used worldwide for surface preparation before wrapping. The main uses are pipeline rehabilitation, pipe support reinforcement, and general plant maintenance. Keep your repairs and maintenance cold with our Wrap Solution.



Cutting Tools

CUTTING TOOLS EX-CERTIFICATE



A-0105 FUJI ANGLE GRINDER (FCD-10X-52)



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 rating (ATEX)

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)	⚖️ (g)	Air inlet
A-0105-T4	Angle Grinder(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.

Disc no.	Name	Diameter	Thickness	⚖️ (g)
A-0502	Cutting Disc	110mm	5mm	652
A-0503	Weld Removal Disc	110mm	10mm	1420

WATER CONTROL BOX



Unique to our Cutting solutions is our 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 is optimal
- AIR OUTLET = 6.3 Bar Max

Kits

Cutting solutions

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

1. [A-0300](#) - Combined Cutting and Weld Removal Solution
2. [A-0301](#) - Cutting Solution
3. [A-0302](#) - Weld Removal 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 Grinder (FCD-10X-52)	A-0502	Cutting Disc	A-0071	Armoured Hose
A-0105	Angle Grinder (FCD-10X-52)	A-0503	Weld Removal Disc	A-0073	Cutting Guard
				A-0074	Weld Removal Guard
				A-0079	Nozzle with connector
				A-0086	Pelicans
				A-0310	Water Control Box



A-0301 CUTTING SOLUTION KIT



Air tools no.	Air tool name	Disc no.	Name	Accessories	Description
A-0105	Angle Grinder (FCD-10X-52)	A-0502	Cutting Disc	A-0071	Armoured Hose
				A-0073	Cutting Guard
				A-0079	Nozzle with connector
				A-0086	Pelicans
				A-0310	Water Control Box



A-0302 WELD SEAM REMOVAL KIT



Air tools no.	Air tool name	Disc no.	Name	Accessories	Description
A-0105	Angle Grinder (FCD-10X-52)	A-0503	Weld Removal Disc	A-0071	Armoured Hose
				A-0074	Weld Removal Guard
				A-0079	Nozzle with connector
				A-0086	Pelicans
				A-0310	Water Control Box



Custom tools



A-0410 Pendulum Arm

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-0415 Pipe Bungee

The Pipe Bungee is a simple way to attach Safety Tools Allmet grinding tools to a pipe. Pipe Bungee makes the grinding process more effortless, removing the need to work in a compromised position underneath the pipe. This eliminates the risk of eye injury from falling debris.



A-0420 Cutting Guide Compact

The Cutting Guide Compact is an additional equipment for SafetyTools Allmet cutting solutions, making efficiency and increasing use areas for our cutting tools.

It is a simple solution that has a surprisingly increased effect on the result. Cutting Guide Compact can be customized to your desired length.

Key advantages

- It is a lot easier to operate the cutting tool
- The cutting efficiency is greatly increased
- The operator will not get as tired from the air tool
- Longer lasting cutting discs
- Greatly improves precision when cutting
- It is cheap and cost effective



A-0320 Cutting Guide Jr

Portable automated cutting solution for work in Ex/Hazardous areas. It can be mounted on walls and even on the ceilings with magnets and vacuumfeet. The cutting process is controlled by a pneumatic remote operator station where the operator controls all functions on the guide.

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



“The Safety Tools Allmet grinding tools were tested under anticipated worst case conditions – operations within explosive mixtures of propane and acetylene. It was not found possible to provoke ignition of the explosive mixtures during any of the tests performed.”

Geir H. Pedersen, Principal engineer, Gexcon AS



Training

We conduct training at our office/workshop in Sotra, Norway.

All Safety Tools Authorized Importers conduct training certification.

We can also conduct online training through video conference meetings. This applies for both our cutting and grinding tools. See our contact information at bottom of this page.



SAFETY TOOLS 
allmet

TECHNISCH BUREAU

DUSPRA

www.duspra.nl

+31 (0) 180 410 100 | sales@duspra.nl

