

 **Product catalogue**

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



# Safety Tools Allmet Solutions

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## Categories

We have two primary categories of solutions: Cutting Solutions & Grinding Solutions.

Our ATEX grinding solution are developed for surface preparation and maintenance work such as spot repair.

Our ATEX cutting solutions are developed for both general cutting jobs and weld removal.

## Air Tools

Our Ex-certified air tools are pneumatic and developed in partnership with Fuji tools. All air tools work exclusively with Safety Tools Allmet ATEX burrs and discs.

## Files & Discs

Safety Tools Allmet Files & Discs are composed primarily of Tungsten Carbide. There are also unique TOP-SECRET elements infused into the composite. The combination of the molecular components and the fabrication method gives our files and discs the hardness between an industrial diamond and a natural diamond. The design of the teeth adds longevity and the ability to grind on steel efficiently at slow speeds. The fragments produced after grinding are easy to clean up, large and blunt. This offers many safety & operational benefits compared to conventional tools.

ALL WITHOUT HOT SPARKS!

## Standardized solutions

Safety Tools Allmet has eleven standard grinding solutions and three standard cutting solutions. We also offer on-demand custom kits to meet our client's needs.

## Water Control Box - For cutting solutions

Cutting & Weld Seam solutions come with our ATEX-water control box. The water cools and lubricates both the cutting disc and weld removal disc, thus giving discs a longer lifespan.

## Accessories & Helping Tools

Our grinding and cutting solutions come with custom accessories that contribute to operator safety and increased efficiency.

## Training and Tool Maintenance

Proper training and tool maintenance is important. Safety Tools Allmet conducts training at our corporate office and at our client's facilities. We train and certify every agent that is offering our products.

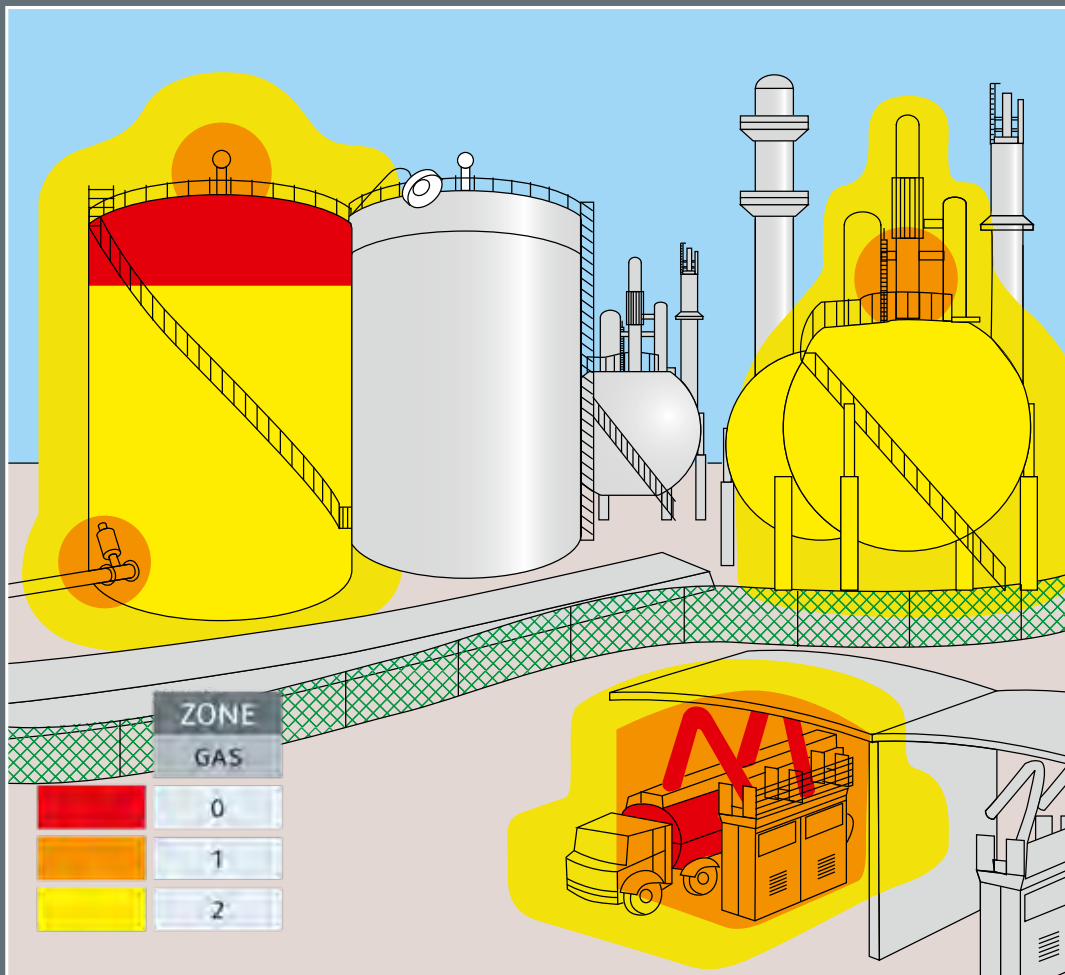
We also conduct online training for both our cutting and grinding tools.

# Benefits from our cold solutions

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- *EX-Certified by GEXCON CERTIFICATION AS*
- *No requirement for Hot Work Permits*
- *Simplified Risk Evaluations*
- *No job postponements*
- *No need for habitats*
- *No need for fireguards*
- *No Hot Sparks*
- *No dangerous sharp splinters*
- *Low heat (averaging 30–60°C)*
- *Low vibration – (averaging 2.5 m/s)*
- *Low noise levels (averaging 80–85 dB)*
- *Average Roughness Profile of 40–75 microns*
- *No release of isocyanates when grinding or cutting through polyurethane.*
- *Disks and files are harder than an Industrial Diamond*





## Ex Zones - Directive 2014/32/EU

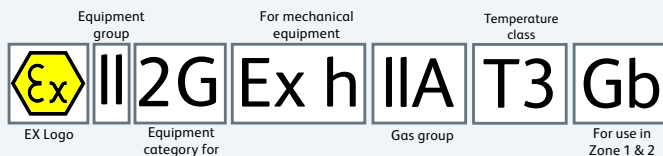
**ZONE 0:** Very high level of danger where explosive atmospheres exist continuously, or for long periods or frequently.

**ZONE 1:** High level of danger where explosive atmospheres can exist occasionally during normal operations.

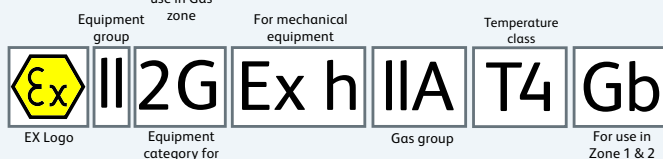
**ZONE 2:** Normal level of danger where explosive atmospheres are not likely to be present during normal operations but, if they do occur, they will persist for a short period only.

### SAFETY TOOLS ALLMET MARKINGS - DIRECTIVE 2014/34/EU

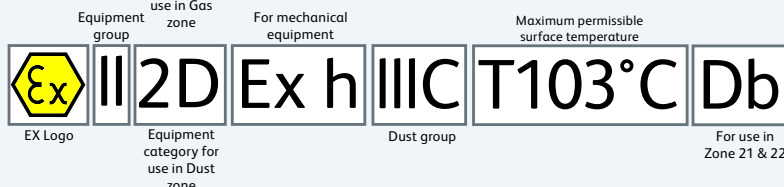
**Grinding tools**



**Cutting tools**



**Cutting tools**



**GEXCON**  
CERTIFICATION  
TYPE APPROVED PRODUCT



## EX-Certified Grinding Solutions

### Surface profile

The solid tungsten head for Safety Tools' cold rotating grinding files has different designs on its teeth so that they can produce various surface profiles for different situations. Our burrs create a roughness profile ranging between 40 and 75 microns.

### Spot Repair

Ex-certified cold work tools from Safety Tools Allmet provide a clean surface with a profile meeting the requirements of the SSPC-SP11 Surface Preparation Standard.

### Tungsten Carbide

Our rotating files and discs are made of solid tungsten carbide. The hardness and design of the teeth significantly increase the lifetime of the grinding files and discs.

### Adhesion and Cleanliness

The correct surface profile creates a suitable anchor for paint and coatings. ATEX grinding tools from Safety Tools Allmet ensure good adhesion and a clean surface. They have been extensively independently tested for surface adhesion by International Paint, Jotun, Chevron, and Weatherford.

### 24+ years of experience

With over 24 years of experience, we provide top-quality service for our cold solutions. The Safety Tools Allmet staff are experts in both the usage and service of our tools.



# 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	1700	1/4" NPT

## ROTATING FILE Used with A-0107 and 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-0009B Big Boy B		Total length	95mm
		Teeth	32mm
		⚖️ (g)	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

Used 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

Used 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**



**A-0068**  
Drop Safety Device



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



**A-0065**  
Covering for A-0105 Angle Grinder



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





## ▶ Ex-Certified Grinding Solutions

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Safety Tools Allmet has eleven standard grinding solutions and three standard cutting solutions. We also offer on-demand custom kits to meet our client's needs.

[A-0047](#) – Coating Maintenance Solution

[A-0048](#) – Coating Maintenance Solution Eco

[A-0049](#) – Surface Solution Small

[A-0051](#) – Straight Grinder Solution

[A-0052](#) – Wrap Solution

[A-0054](#) – All-Around Solution

[A-0055](#) – Ship Owners Solution

[A-0056](#) – Rough Boy Solution

[A-0057](#) – All-Around with Rough Boy Solution

[A-0058](#) – Steel Grinding Solution

[A-0059](#) – Surface Protection Solution



### A-0047 – Coating Maintenance Solution

Size: 54x21x44cm - 13,5 kg

Developed for an optimal system for paint removal and producing a surface profile ready to paint – with strong adhesion levels. The total lifetime of this solution's grinding files and disks is 103 200 spots. (5x5 cm)



Air tools	Grinding files	Accessories	
A-0105 Fuji Angle Grinder	A-0001 Slim	A-0060RB Handle	A-0200 Spanner - 10mm
A-0107 Fuji Straight Grinder	A-0003 Straight Cone	A-0061 Handle	A-0203 Spanner – 17mm
A-0108 Fuji Angle Grinder	A-0004 Little Papa	A-0065 Covering	A-0205 Dor Clamp 4mm
	A-0005 Round Boy	A-0085 Pelicase	A-0207 Allen key – 6mm
	A-0010 Rough boy	Grinding Disc	
		A-0500 Grinding disc for paint	

### A-0048 – Coating Maintenance Solution Eco

Size: 41x32x17cm - 7 kg

A smaller version of the A-0059 Surface Solution. The grinding tools creates a good surface profile that maintains mechanical pre-treatment standard ST 2.5 to 3. The total lifetime of this solution's grinding files is 63 200 spots. (5x5 cm)



Air tools	Grinding files	Accessories	
A-0107 Fuji Straight Grinder	A-0003 – Straight Cone	A-0060RB Handle	A-0203 Spanner – 17mm
A-0108 Fuji Angle Grinder	A-0004 – Little Papa	A-0061 Handle	A-0205 Dor Clamp 4mm
	A-0005 – Round Boy	A-0082 Pelicase	A-0207 Allen key – 6mm
	A-0010 – Rough boy	A-0200 Spanner - 10mm	

### A-0049 – Surface Solution Small

Size: 41x32x17cm - 7,5 kg

Smaller, more accessible solution for spot repair. It Also contains “Big Boy” for larger surfaces. The burrs create a good surface profile that maintains mechanical pre-treatment standard ST 2.5 to 3.

The total lifetime of this solution’s grinding files is 66 800 spots. (5×5 cm)



Air tools	Grinding files	Accessories
A-0104 Fuji Angle Grinder	A-0001 – Slim	A-0060 Handle
A-0107 Fuji Straight Grinder	A-0002 – Bow Cone	A-0082 Pelicase
	A-0003 – Straight Cone	A-0200 Spanner - 10mm
	A-0005 – Round Boy	A-0203 Spanner – 17mm
	A-0006 – Al-Ti-Char	A-0207 Allen key – 6mm
	A-0009B – Big Boy B	

### A-0051 – Straight Grinder Solution

Size: 30x12x25cm - 3,1 kg

Good versatility when it comes to size, weight and usage areas. Comes packaged in the Peli Stormcase IM2050, a light and versatile but robust Pelicase. The total lifetime of this solution’s grinding files is 35 200 spots. (5×5 cm)



Air tool	Grinding files	Accessories
A-0107 Fuji Straight Grinder	A-0002 – Bow Cone	A-0061 Handle
	A-0005 – Round Boy	A-0083 Peli Stormcase IM2050
	A-0007 – Shorty	A-0200 Spanner - 10mm
		A-0203 Spanner – 17mm
		A-0207 Allen key – 6mm

## A-0052 – Wrap Solution

Size: 41x32x17cm - 7,5 kg

Developed for the wrap repair industry with good versatility for both pre-treatment of pipes and beams. The total lifetime of this solution's grinding files is 100 800 spots. (5x5 cm)



Air tools	Grinding files	Accessories
A-0107 Fuji Straight Grinder	A-0001 – Slim	A-0060RB Handle
A-0108 Fuji Angle Grinder	A-0002 – Bow Cone	A-0061 Handle
	A-0003 – Straight Cone	A-0068 Drop safety device (2 pcs)
	A-0005 – Round Boy	A-0083 Pelicase
	A-0007 – Shorty	A-0200 Spanner - 10mm
	A-0008 – Big papa	A-0203 Spanner - 17mm
	A-0010 – Rough boy	A-0205 Dor Clamp - 4mm
		A-0207 Allen key - 6mm

## A-0054 All-Around Solution

Size: 54x21x44cm - 19 kg

Our second most optimal system for steel grinding, corrosion control and surface maintenance. The total lifetime of this solution's grinding files and disks is 166 800 spots. (5x5 cm)



Air tools	Grinding files	Accessories
A-0104 Fuji Angle Grinder	A-0001 – Slim	A-0060 Handle
A-0105 Fuji Angle Grinder	A-0002 – Bow Cone	A-0061 Handle
A-0107 Fuji Straight Grinder	A-0003 – Straight Cone	A-0062 Cooling cap
A-0108 Fuji Angle Grinder	A-0004 – Little Papa	A-0065 Cover
	A-0005 – Round Boy	A-0068 Drop safety device (4 pcs)
<b>Grinding disc</b>	A-0006 – Al-Ti-Char	A-0085 Pelicase
A-0500 Grinding disc for paint	A-0007 – Shorty	A-0200 Spanner - 10mm
	A-0008 – Big papa	A-0203 Spanner - 17mm (2 pcs)
	A-0009B – Big Boy B	A-0205 Dor Clamp - 4mm
	A-0009C – Big Boy C	A-0207 Allen key - 6mm

### A-0055 Ship owners solution

Size: 54x21x44cm - 15 kg

Developed for general corrosion removal maintenance and surface preparation for ships. Stay ahead of the maintenance schedule on board and avoid major costs with unplanned drydocking. The total lifetime of this solution's grinding files and disks is 63 200 spots. (5x5 cm)



Air tools	Grinding files	Accessories	
A-0105 Fuji Angle Grinder	A-0003 – Straight Cone	A-0061 Handle	A-0200 Spanner - 10mm
A-0107 Fuji Straight Grinder	A-0004 – Little Papa	A-0068 Drop safety device (2 pcs)	A-0203 Spanner - 17mm
<b>Grinding disc</b>	A-0005 – Round Boy	A-0085 Pelicase	A-0207 Allen key - 6mm
A-0500 Grinding disc for paint			

### A-0056 rough boy solution

Size: 43x18,5x34,5cm - 7 kg

Rough Boy Solution was developed for general corrosion maintenance and surface pre-treatment on larger surface areas – as a replacement for spot blasting. The total lifetime of this solution's grinding files is 32 000 spots. (5x5 cm)



Air tool	Grinding file	Accessories	
A-0108 Fuji Angle Grinder	A-0010 – Rough boy	A-0060RB Handle	A-0205 Dor Clamp - 4mm
		A-0068 Drop safety device	A-0203 Spanner - 17mm
		A-0082 Rough Boy Pelicase	A-0207 Allen key - 6mm

## A-0057 – All Around with Rough Boy Solution

Size: 54x21x44cm - 21 kg

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. The total lifetime of this solution's grinding files and disks is 198 800 spots. (5x5 cm)



Air tools	Grinding files	Accessories
A-0104 Fuji Angle Grinder	A-0001 – Slim	A-0060 Handle
A-0105 Fuji Angle Grinder	A-0002 – Bow Cone	A-0060RB Handle
A-0107 Fuji Straight Grinder	A-0003 – Straight Cone	A-0061 Handle
A-0108 Fuji Angle Grinder (2 pcs)	A-0004 – Little Papa	A-0062 Cooling cap
	A-0005 – Round Boy	A-0065 Cover
<b>Grinding disc</b>	A-0006 – Al-Ti-Char	A-0068 Drop safety device (5 pcs)
A-0500 Grinding disc for paint	A-0007 – Shorty	A-0085 Pelicase
	A-0008 – Big papa	A-0200 Spanner - 10mm
	A-0009B – Big Boy B	A-0203 Spanner - 17mm (2 pcs)
	A-0009C – Big Boy C	A-0205 Dor Clamp - 4mm
	A-0010 – Rough boy	A-0207 Allen key - 6mm



## A-0058 – Steel Grinding Solution

Size: 54x21x44cm - 14 kg

Steel Grinding Solution contains our best rotating grinding files for both steel removal and mechanical pre-treatment. The total lifetime of this solution's grinding files is 142 800 spots. (5x5 cm)



Air tools	Grinding files	Accessories
A-0107 Fuji Straight Grinder	A-0002 – Bow Cone	A-0060 Handle
A-0108 Fuji Angle Grinder	A-0003 – Straight Cone	A-0061 Handle
	A-0004 – Little Papa	A-0062 Cooling cap
	A-0005 – Round Boy	A-0068 Drop safety device (2 pcs)
	A-0006 – Al-Ti-Char	A-0085 Pelicase
	A-0007 – Shorty	A-0200 Spanner - 10mm
	A-0008 – Big papa (2 pcs)	A-0203 Spanner - 17mm
	A-0009C – Big Boy C (2 pcs)	A-0205 Dor Clamp - 4mm
		A-0207 Allen key - 6mm

## A-0059 – Surface Protection Solution

Size: 54x21x44cm - 17 kg

Developed for general maintenance work in and outside of larger ATEX gas zones. The total lifetime of this solution's grinding files and disks is 111 200 spots. (5x5 cm)



Air tools	Grinding files	Accessories	
A-0104 Fuji Angle Grinder	A-0003 – Straight Cone	A-0060 Handle	A-0085 Pelicase
A-0105 Fuji Angle Grinder	A-0004 – Little Papa	A-0061 Handle	A-0200 Spanner - 10mm
A-0107 Fuji Straight Grinder	A-0005 – Round Boy	A-0062 Cooling cap	A-0203 Spanner - 17mm
<b>Grinding disc</b>	A-0009B – Big Boy B (2 pcs)	A-0065 Cover	A-0207 Allen key - 6mm
A-0500 Grinding disc for paint		A-0068 Drop safety device (3 pcs)	



*“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



# ATEX-Cutting Tools

### CUTTING TOOLS EX-CERTIFICATE

Equipment group <b>Ex</b>	For mechanical equipment <b>II 2G</b>	Gas group <b>Ex h IIA</b>	Temperature class <b>T4</b>	For use in Zone 1 & 2 <b>Gb</b>
Equipment group <b>Ex</b>	For mechanical equipment <b>II 2D</b>	Dust group <b>Ex h IIIC</b>	Maximum permissible surface temperature <b>T103°C</b>	For use in Zone 21 & 22 <b>Db</b>

**GEXCON**  
CERTIFICATION

TYPE APPROVED PRODUCT

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



Cutting solutions utilize our A-0105 air tool. The addition of the water control box increases the lifetime of our cutting discs as water acts as lubricant.

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)	Weight (g)	Air inlet
A-0105-T4	Angle Grinder(T4)	FCD-10X-52	1000	2400	1/4" NPT

### CUTTING DISCS



Safety Tools cutting and weld seam discs have the same properties as our grinding files and discs.

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

### A-0310 - WATER CONTROL BOX



Unique to our cutting solutions is our water control box, designed to regulate the flow of air and water. Its purpose is to control whether the tool is permitted to start or not

#### 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



# ATEX-Cutting Solutions



## A-0300 - Combined cutting and weld removal solution

Size: 80x45x64cm - 44 kg

Combined cutting solution with all our cutting tools, for both general cutting and weld removal. Reduce time spent on demanding risk assessments and cut costs related to shutdowns, fireguards, hot work permits, habitats, and demanding cleanup work.



Air tools	Accessories	
A-0105 Fuji Angle Grinder (2 pcs)	A-0071 Armoured hose	A-0086 Cutting and Weldseam Pelicase
<b>Cutting discs</b>	A-0073 Cutting Guard	A-0204 – Thin Spanner 19mm
A-0502 – Cutting disc	A-0074 Covering Weldseam Fuji	A-0206 – Chuck key
A-0503 – Weld removal disc	A-0077 A & C	A-0208 – Spanner 22mm
<b>Custom Tool for water control</b>	A-0079 Nozzle with connector (2 pcs)	A-0209 – Spanner 36mm Thin
A-0310 Water Control Box		

Some proposed application areas:

- ❖ Cutting in engine room
- ❖ Cutting in explosive atmospheres
- ❖ Topside pipe cutting
- ❖ Topside weld removal
- ❖ Cutting projects in refineries
- ❖ Removing deck plates
- ❖ Cutting stuck bolt heads
- ❖ Drilling deck projects
- ❖ Weld removal
- ❖ Weld removal projects in refineries
- ❖ Grating removal
- ❖ And much more!

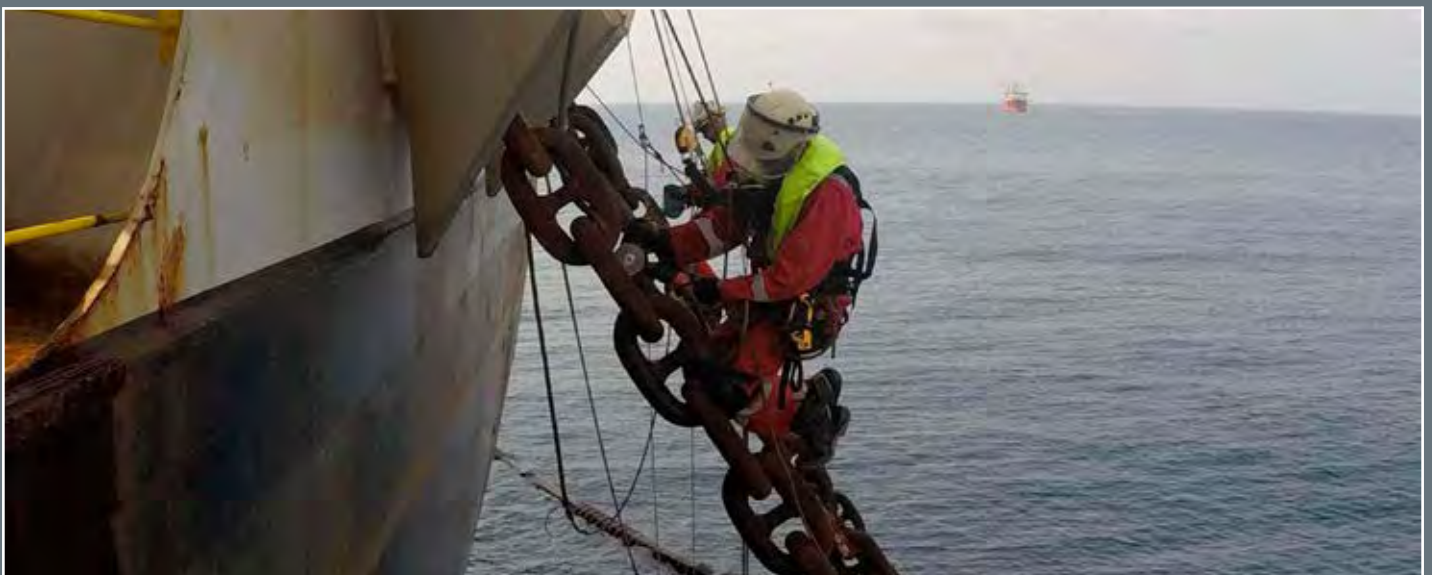
### A-0301 - Cutting Solution

Size: 80x45x64cm - 40 kg

Cutting solution with a 5mm cutting disc which can cut and mill approximately 12 meters in length and 8 to 12mm deep if a helping system is used, Such as Cutting Guide Compact, Pendulum Arm, or the Cutting Guide Jr.



Air tool	Accessories	
A-0105 Fuji Angle Grinder	A-0071 Armoured hose	A-0086 Cutting and Weldseam Pelicase
<b>Cutting disc</b>	A-0073 Cutting Guard	A-0206 – Chuck key
A-0502 – Cutting disc	A-0077 A & C	A-0209 – Spanner 36mm Thin
	A-0079 Nozzle with connector	
<b>Custom Tool for water control</b>		
A-0310 Water Control Box		



## A-0302 - Weld Removal Solution

Size: 80x45x64cm - 42 kg

The Weld Removal Solution is efficient for steel removal and especially welding studs, welding seams, wedge welds, bolts, general weld removal and much more.



Air tool	Accessories	
A-0105 Fuji Angle Grinder	A-0071 Armoured hose	A-0086 Cutting and Weldseam Pelicase
<b>Cutting disc</b>	A-0074 Covering Weldseam Fuji	A-0204 – Thin Spanner 19mm
A-0503 – Weld removal disc	A-0079 Nozzle with connector	A-0208 – Spanner 22mm
<b>Custom Tool for water control</b>		
A-0310 Water Control Box		





*“The cutting system works excellent. We are able to cut out welds attaching equipment in an area... in one shift... Without having to shut down the facility. Definitely a quality product and valuable asset”*

SHELL-MARS OFFSHORE PLATFORM, Gulf of Mexico - Shell



# 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-0410 Pendulum Arm (Example)

Connected with our A-0105 air tool and A-0502 cutting disc. Can also be used with our weld removal disc A-0503.

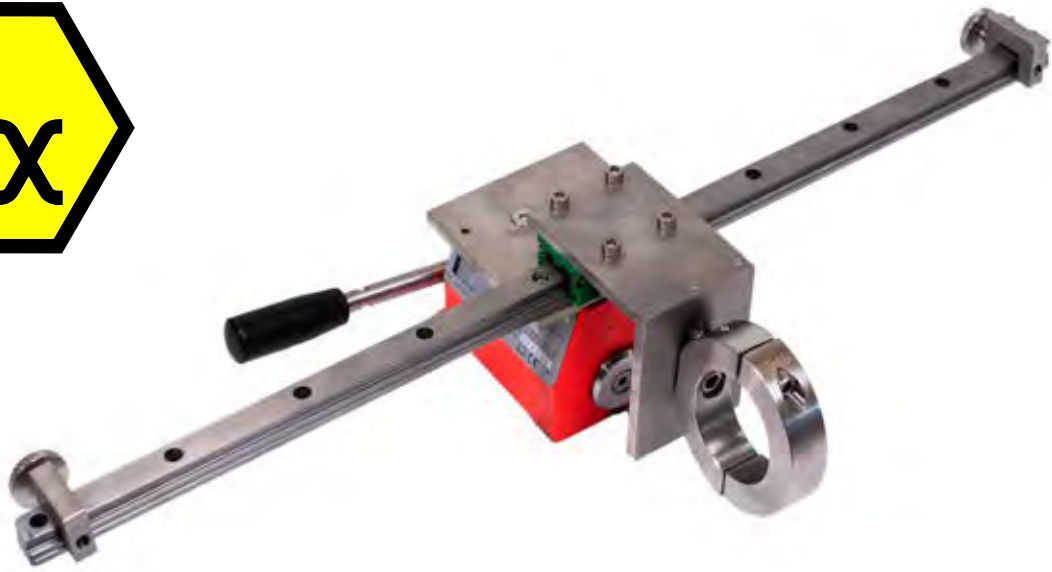


## A-0415 Pipe Bungee

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.



# Custom tools



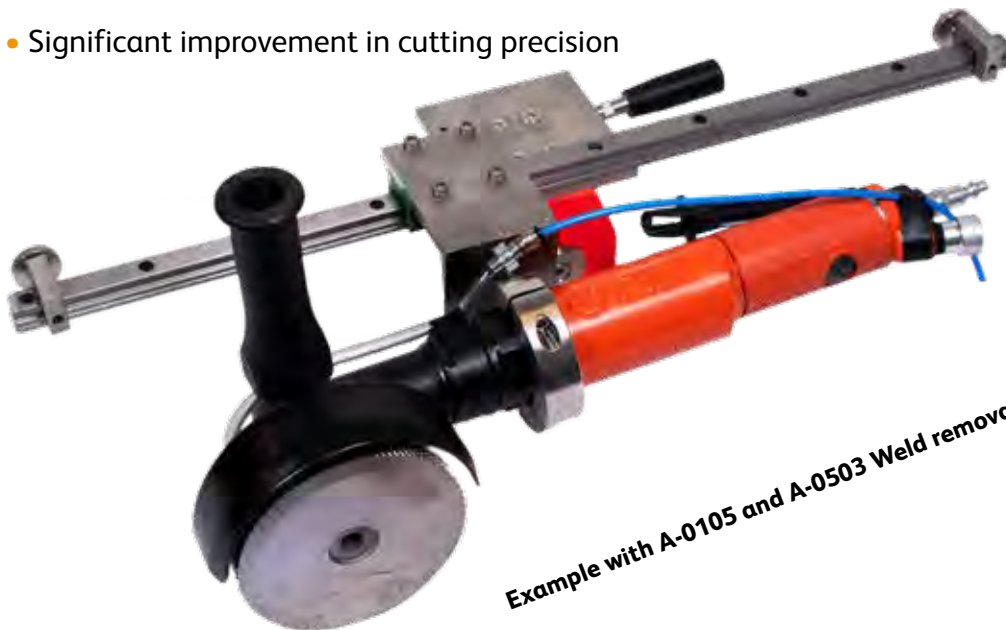
## A-0420 Cutting Guide Compact

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

- Enhanced ease of operation for the cutting tool
- Substantial increase in cutting efficiency
- Reduced operator fatigue
- Extended lifespan of cutting discs
- Significant improvement in cutting precision



Example with A-0105 and A-0503 Weld removal disc

# Custom tools



## A-0320 Cutting Guide Jr

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



## Training

Safety Tools Allmet conduct free training with our tools at our workshop in Sotra, Norway, or online. After agreement. Contact; [sales@safetytools.no](mailto:sales@safetytools.no)

*This applies for both grinding and cutting tools.*

Local authorized importers also conduct training certification.



**SAFETY TOOLS**   
**allmet**

TECHNISCH BUREAU

**DUSPRA**

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