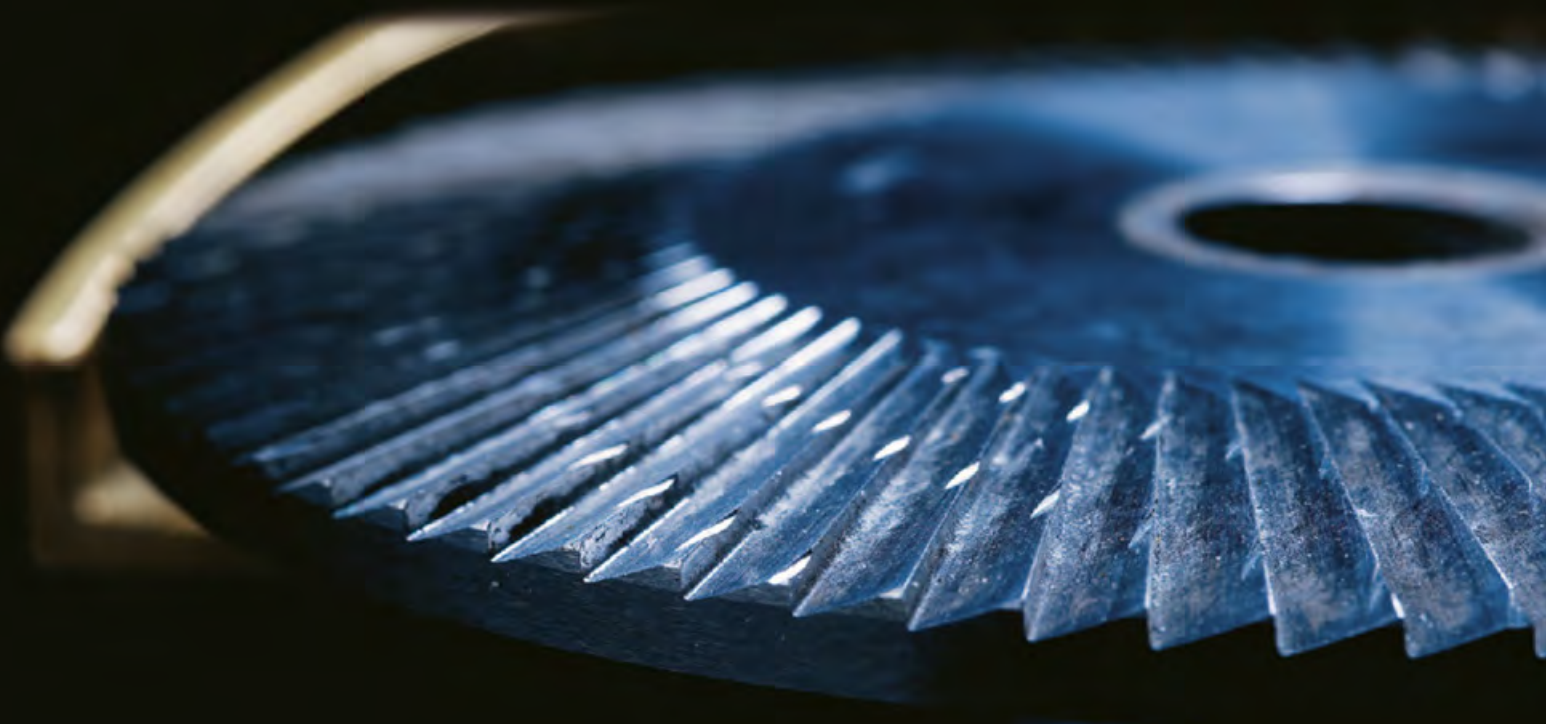


▶ **Product catalogue**

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



Cut the heat – cut the risk

# 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. 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 10 standardized Grinding Suitcase options and 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 Seem Removal)

Our Cutting & Weld Seem 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

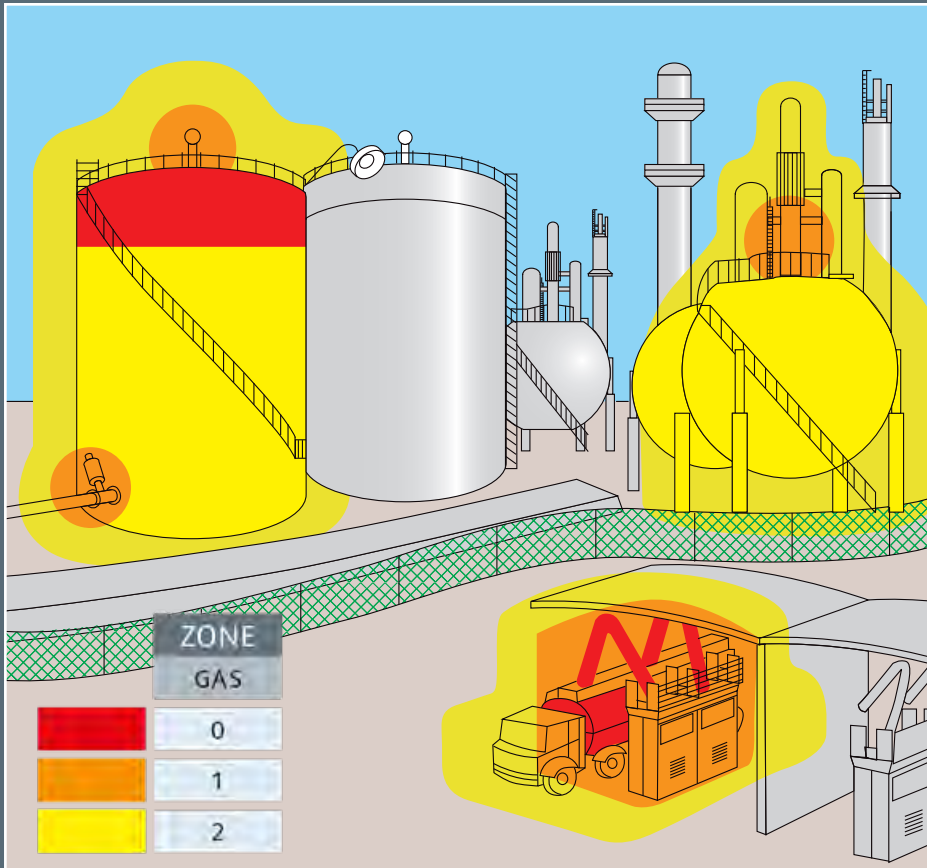
Proper training and maintenance is critical. Safety Tools conducts ongoing training at our corporate office and at our client's facilities. We train and certify every Agent offering Safety Tools. Along with hands on training, Safety Tools supplies detailed user manuals videos & maintenance material to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



## *Safety Tools 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)*
- *Roughness Profile 40–75 micron's*
- *Disks and files are harder than an Industrial Diamond – last long*





## 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:

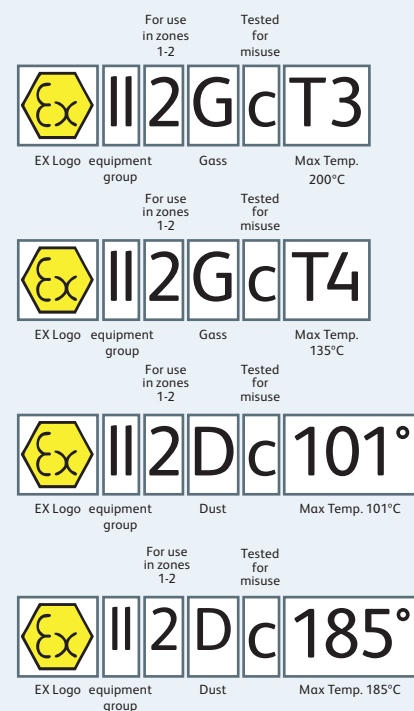
**ZONE 0:** Where an explosive atmosphere is continuously present, or present for long periods of time. Continuous.

**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







# EX Certified 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.

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 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 and 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

## Accessories

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

### DNV GRINDING TOOLS CERTIFICATE

|  |  |   |  |
|--|--|---|--|
| <p>For use in zones 1-2</p>  <p>EX Logo equipment group</p> | <p>Tested for misuse</p>  <p>Gass Max Temp. 200°C</p> | <p>Tested for misuse</p>  <p>EX Logo equipment group</p> | <p>Dust</p>  <p>Max Temp. 185°C</p> |
|--|--|---|--|



# Product Range Grinding Tools



## STRAIGHT GRINDER 3000



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

## ANGLE GRINDER 2000-4



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

## ROTATING FILE

For STA A-0107 / 0104

| Prod.no.             |  | Total length | Teeth | Weight (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-0009 B Big boy b   |  | 95mm         | 32mm  | 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<br>Big boy c |  | Total length | 95mm  |
|                       |  | Teeth        | 32mm  |
|                       |  | ⚖️ (g)       | 340g  |
| A-0010<br>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 |

### 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







## ▶ Safety Tools Certified 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



## 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      |
|               |                | A-0009B  | Big boy b     |          |           | A-0068      |
|               |                | A-0009C  | 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      |
|               |                | A-0009B  | Big boy b     |          |           |             |
|               |                | A-0009C  | 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      |          |           |             |
|               |                | A-0009C  | Big boy c     |          |           |             |
|               |                | A-0009C  | 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      |
|               |                | A-0009B  | Big boy b     |          |           | A-0068      |
|               |                | A-0009B  | 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.



## 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



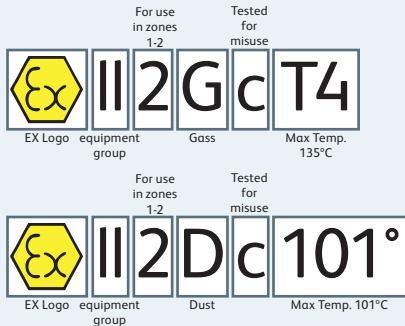
| Air tools no. | Air tool name  | File no. | Name          | Accessories |
|---------------|----------------|----------|---------------|-------------|
| A-0108        | Angle 2000 - 8 | A-0001   | Straight cone | A-0060RB    |
| A-0107        | Straight 3000  | A-0003   | Little papa   | A-0085      |
|               |                | 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.



# 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) | Weight (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.

| Disc no. | Name              | Diameter | Thickness | Weight (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 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               |



# Cutting Tooling and Solutions



## 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 Bungie

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-0420 Cutting Guide Compact

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

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

### Key advantages

- The cutting speed is greatly increased
- It is a lot easier to operate the cutting tool
- The operator will not get tired using the cutter
- increasing lifetime of cutting disc



## A-0320 Cutting Guide Jr

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 or vacuume feet. 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.



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



**SAFETY TOOLS**   
allmet

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