

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

Product Catalogue

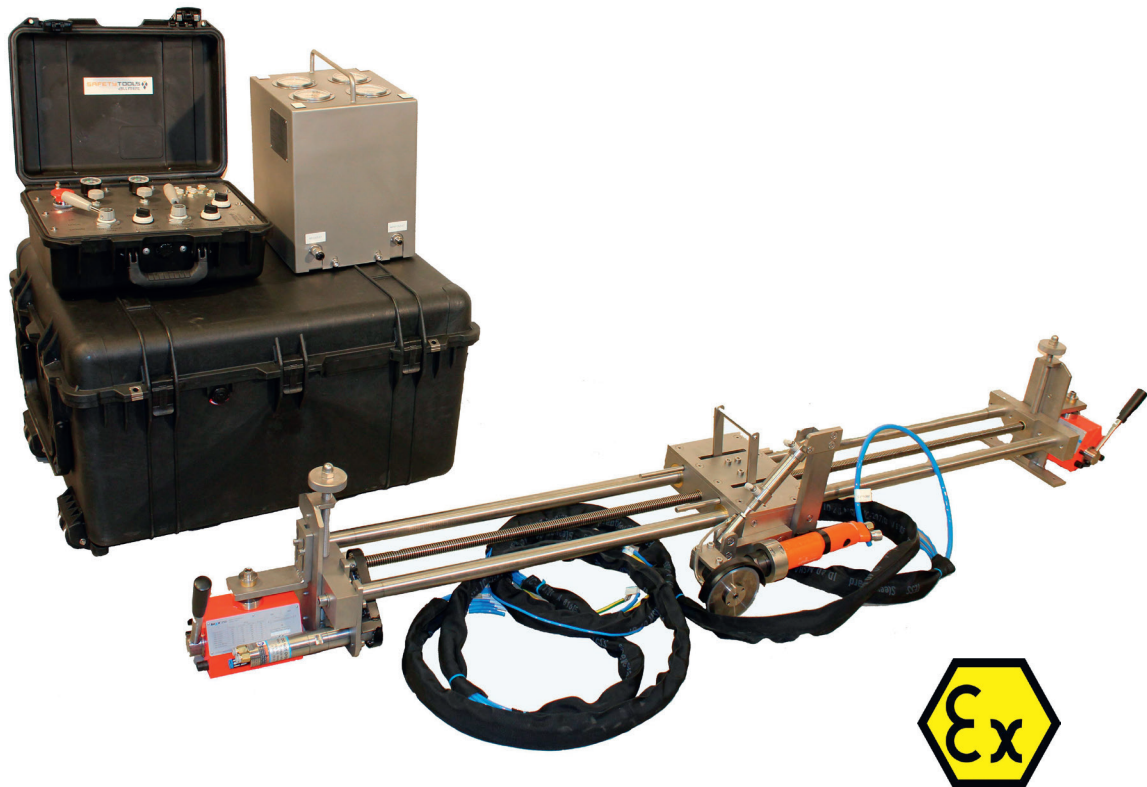
Cut the heat – cut the risk

www.safetytools.no



01/2014

New Cutting Guide Jr.



Cutting Guide Jr.

Product number: A-0320

The 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. The cutting process is controlled by a pneumatic remote operator station where the operator is in control of all functions on the guide.

The length of the guide is 1.2 meters and it is approximately 0.35 meters high.

The guide is built with safety in mind and is built in ANSI316 with antistatic sleeve-guard around the pneumatic hose bundle connecting the operator station, Water control box and the guide.



Powered by air the motor guides the cutting tool along the cutting guide. After each pass, the gear is manually released and repositioned back to the start position for another cut.

There is also grounding between the parts. The cutting guide cuts about 1m of 8mm thick steel in an hour (depends on the steel and disk) and the cutting disk last about 20-30m of cutting (depends on steel type and operator). The guide is delivered in standard length of about 2,2m with a cutting length of about 1,4m. Length and spec can be modified on request.

There is no need for downtime due to vibrations or high noise to the operator and therefore the machine can be operated without downtime. The Guide is delivered in easy to assemble parts and is ready to use in about 30 min by an experienced operator

Our client feedback has been very positive and our tests have resulted in increased longevity and performance of our discs. The disc lifespan has more than doubled.

Safety Tools Solutions

Categories

Grinding Solutions Cutting Solutions Automated Solutions

Air Tools

Safety Tools are powered by pneumatic tools that are ATEX certified as safe to use in Ex Gas Zones 1/2 and Dust Zones 21/22. our air tools can only be purchased from Safety Tools Allmet or one of our Authorized Importers.

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!

Grinding & Cutting Solutions

Safety Tools has six standardized Grinding Solutions & three standardized Cutting & Weld Removal

Solutions that we have developed for our customers. We also offer on-demand custom solutions to meet our clients' specific needs.

Water Control Box (Cutting & Weld Removal)

Our Cutting & Weld Seem Solutions 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

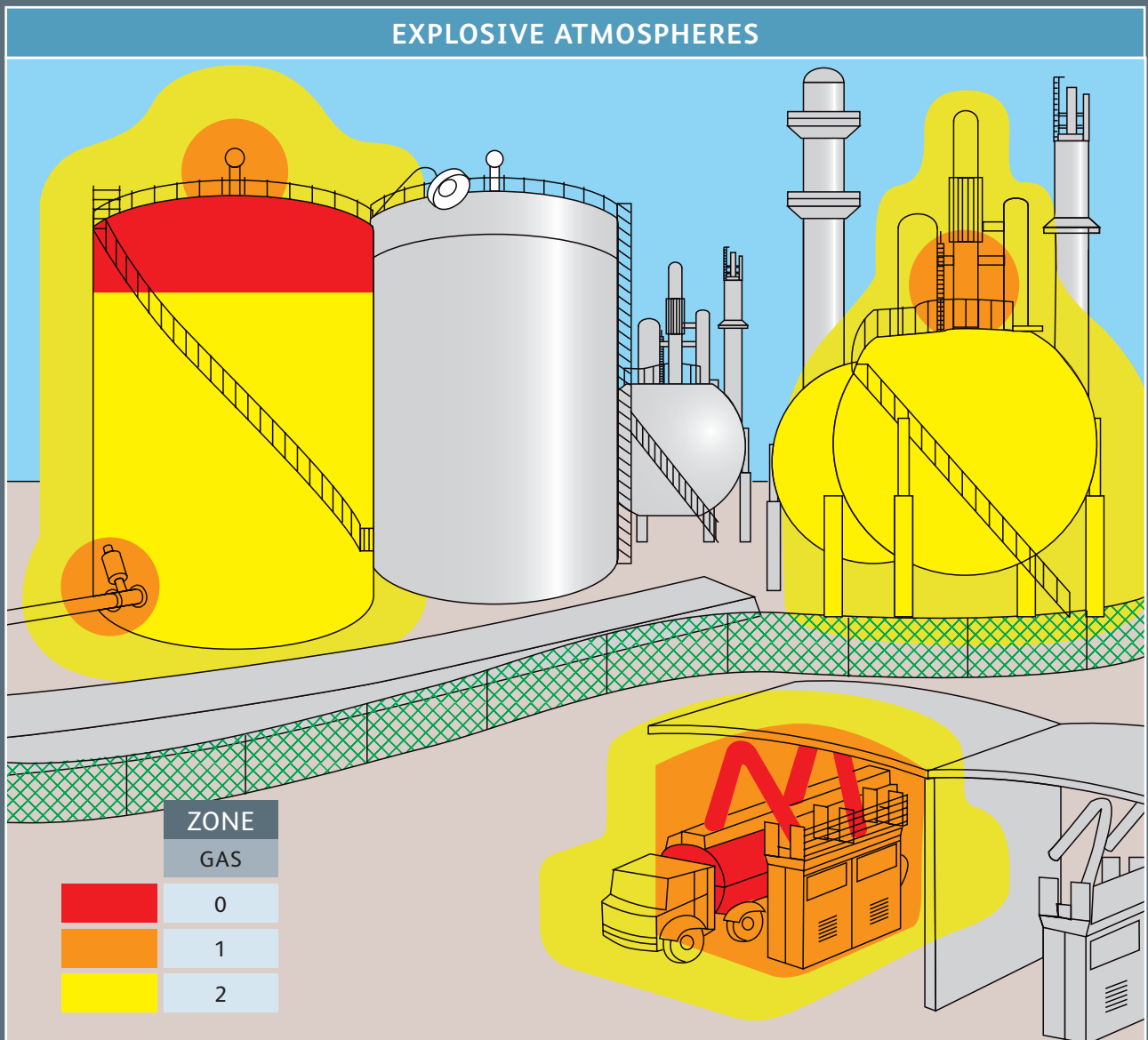
All of our kits come with specially designed accessories that contribute to optimal safety and operation.

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 Exclusive Importer 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.

Automation from STA Solutions

All Safety Tools solutions can be further engineered and developed by STA Solutions.



Ex Gas 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.



EX CERTIFICATES FROM SAFETY TOOLS ALLMET

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

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

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 & Canada have a similar systems to ATEX but use divisions instead of zones. Many North American companies have incorporated ATEX directives.

Safety Tools are also certified by the DNV as safe to use in dust zones 21 and 22.



Detailed information and videos available at - www.safetytools.no/products

Safety Tools Cold Grinding Solutions

Grinding Solutions

Safety Tools has six Grinding kits that we have developed over the years for our clients. We also offer on-demand custom tailored solutions to meet new demands. All Safety Tools grinding solutions can be enhanced, engineered and automated by STA Solutions.

1. All Around Solution with Rough boy
2. All Around Solution
3. Steel Grinding Solution
4. Surface Protection Solution
5. Ship Owners Solution
6. Rough Boy Solution
7. Wrap Solution (*New*)

New Wrap Solutions





Grinding Solutions

Air Tools

Safety Tools are powered by pneumatic tools that are ATEX certified as safe to use in Ex Gas Zones 1/2 and Dust Zones 21/22. Our air tools can only be purchased from Safety Tools Allmet or one of our Authorized Importers.

Safety Tools air tools are specially designed to safely operate with our files & discs in potentially hazardous work areas.

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 hundreds 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!

Accessories

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

 **Certificates from Safety Tools Allmet**

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

	
DET NORSKE VERITAS	
TYPE EXAMINATION CERTIFICATE	
[2] EQUIPMENT INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC	
[3] Type Examination Certificate Number:	DNV-2065-OSL-ATEX-0119X Rev. 4
[4] Equipment:	Rotating files
[5] Applicant - Manufacturer or Authorized representative:	Safety Tools Allmet AS
[6] Address:	Idrettsveien Strømme Næringspark 555 Strømme Norway
[7]	This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
[8]	DNV certifies that this equipment has been found to comply with the Essential Health and Safety requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Directive.
	The examination and test results are recorded in confidential report: 2005-5120 rev. 09
[9]	Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to: EN 12483-1:2001 & EN 12483-2:2003
[10]	If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
[11]	This TYPE EXAMINATION CERTIFICATE relates only to the design, examinations and tests of the specified equipment. If applicable, further requirements of this Directive may apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
[12]	The marking of the equipment shall include the following:  
Hovik, 2011-01-21 for Det Norske Veritas AS	 Marianne Skjerven Certification Manager
<small>Note: This Certificate is subject to terms and conditions available on our website. Any significant change in design or construction may render this Certificate invalid. The validity, original and electronically distributed documents in this original and valid certificate, for general distribution purposes, is subject to the conditions of use of the certificate. The certificate is not valid for use in other than the specified equipment and conditions. The certificate is not valid for use in other than the specified equipment and conditions. The certificate is not valid for use in other than the specified equipment and conditions. The certificate is not valid for use in other than the specified equipment and conditions.</small>	
<small>DET NORSKE VERITAS AS VERITAVENEN 1, 1322 HØVING, NORWAY TEL: +47 67 97 89 00 FAX: +47 67 97 89 11</small>	

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

ALL AROUND WITH ROUGH BOY SOLUTION (A-0057) Kit size: 54X21X44 cm



Air tools no.	Name	File no.	Name	Disc no.	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.

ALL AROUND SOLUTION (A-0054) Kit size: 54X21X44 cm

19 kg



Air tools no.	Name	File no.	Name	Disc no.	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.

STEEL GRINDING SOLUTION (A-0058) Kit size: 54X21X44 cm

13 kg



Air tools no.	Name	File no.	Name	Disc no.	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.

SURFACE PROTECTION SOLUTION (A-0059) Kit size: 54X21X44 cm 17 kg



Air tools no.	Name	File no.	Name	Disc no.	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 and producing a surface profile that is ready to paint with strong adhesion performance.

SHIP OWNERS SOLUTION (A-0055) Kit size: 54X21X44 15 kg



Air tools no.	Name	File no.	Name	Disc no.	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.


ROUGH BOY SOLUTION (A-0056) Kit size: 43X18.5X34.5 cm 7 kg



Air tools no.	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 Solution Accessories




Drop Safety Device
A-0068




Straight Grinder Cooling Cap
A-0062



Covering for A-105 Angel Grinder
A-0065



Handle for A-0104/8 Angel Grinders
use with A-0009C/B files
A-0060



Handle for A-0104/8 Angel Grinders
Rough Boy/A-0009C
A-0060RB



Detailed information and videos available at - www.safetytools.no/products

Safety Tools Cutting Solutions



All of our Grinding & Cutting Solutions come safely packed in a custom Peli case lined with pink anti-static foam and include; DNV Certification, EC Declaration, User manual, Quality Control checklist, Pneumatic engine diagrams, Analysis for Risk report, and of course our Ex tools and accessories.

AIR TOOL



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

Cutting & Weld Removal Guards



A-0073 – Cutting Guard



A-0074 – Weld Removal Guard

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.

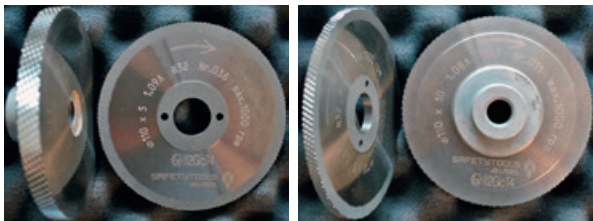
Special designed key to tighten and release Cutting Disc.



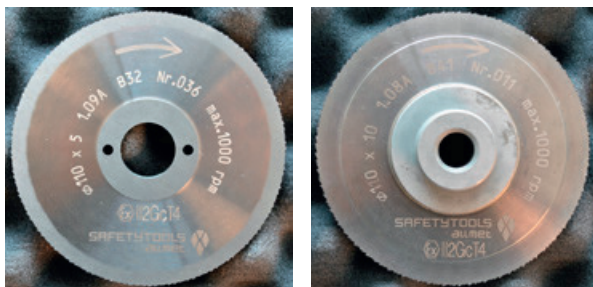
A-0206 – Chuck key

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

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 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 – 2.5 Bars AIR

INLET = 7.3 Bars optimal AIR

OUTLET = 6.3 Bar Max

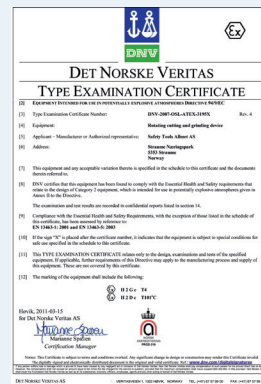
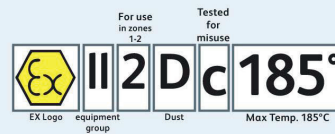
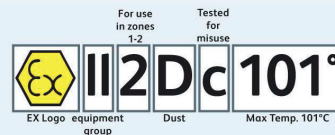


A-0071 – Armoured Hose

All of our Cutting solutions come with a 5 meter armoured earthed hose for each air tool.



CERTIFICATES FROM SAFETY TOOLS ALLMET



Safety Tools Cold Cutting Solutions



Cutting Solutions

Safety Tools has three Cutting Solutions that we have developed over the years for our clients. Like our Grinding Solutions, we offer on-demand custom tailored options to meet new demands. All Safety Tools Cutting Solutions can be further engineered and developed by STA Solutions. Please see our, Innovation & Quality control section for more details.

1. Combined Cutting/Weld-Seam Removal Solution
2. Cutting Solution
3. Weld Seam Removal Solution

COMBINED CUTTING & WELD REMOVAL SOLUTION (A-0300) Kit size: 80X45X64 cm 52 kg



Air tools no.	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

Safety Tools optimal solution for cold cutting and weld removals.

CUTTING SOLUTION (A-0301) Kit size: 80X45X64 cm 46.5 kg



Air tools no.	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

Safety Tools optimal solutions for cold cutting.

WELD REMOVAL SOLUTION (A-0302) 80X45X64 cm 47 kg



Air tools no.	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

Safety Tools optimal solutions for weld removal.

Cut the heat – cut the cost

Companies that trust Safety Tools cool technology





Cut the heat – cut the cost

Unique tools – Global reach

SAFETYTOOLS 
allmet

KVERNER[™]

 NORWEGIAN ARMED FORCES

 PremierOil

 Statoil

LANXESS
Energizing Chemistry



subsea 7

MENTO



TEAM Industrial Services


Monadelphous

Oiltanking




TEEKAY PETROJARL

MOTIVA
ENTERPRISES LLC



NAMTVEDT



SEAWELL




NATIONAL
OILWELL
VARCO

Petrofac 



 NORISOL



 **NSS** Ltd
Nefststroiservice



 sparrows offshore



NCA

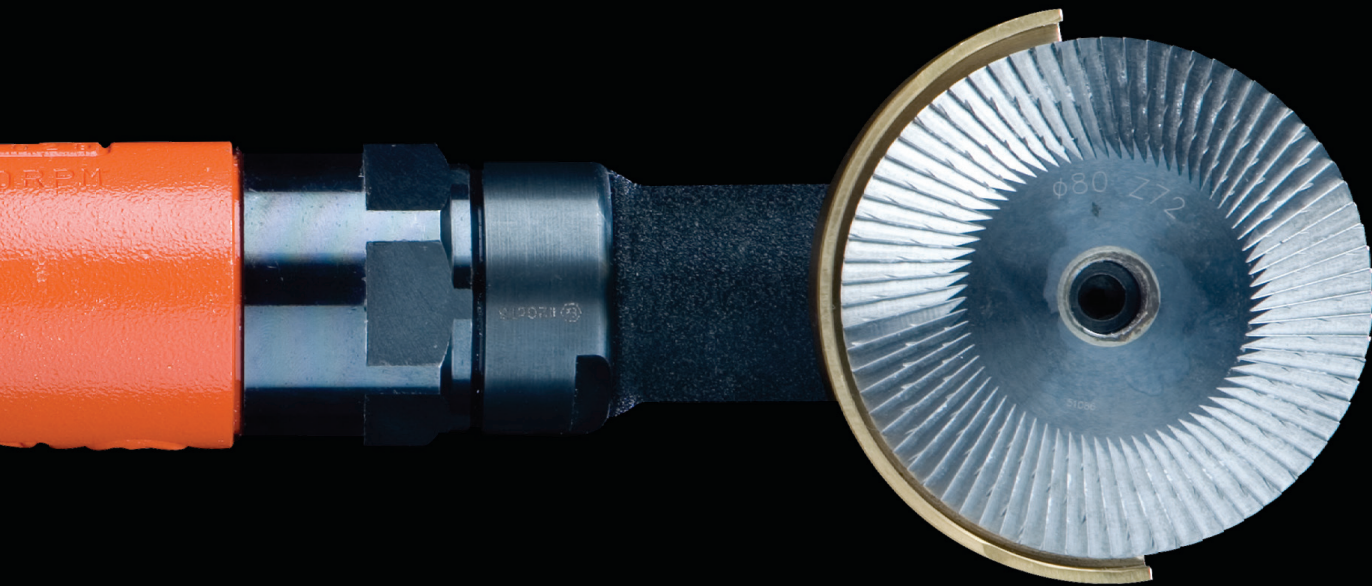
PONTICELLI

 Statkraft

 woodside

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 splinters
- 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