

#### **WORKPLACE SAFETY SOLUTIONS** - OVERVIEW

SAFETY FUNNEL Ø 70 CM

SAFETY FUNNEL Ø 145 CM





ART. NO. 5830010 8070

ART. NO. 5830010 8145

SAFETY PIPE CAP Ø 10 CM

SAFETY PIPE CAP Ø 30 CM

SAFETY PIPE CAP Ø 70 CM

SAFETY PIPE CAP Ø 145 CM









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ART. NO. 5830020 8010

Page 9 ART. NO. 5830020 8030

ART. NO. 5830020 8070

**SCUFF GUARD 500 CM** 

ART. NO. 5830020 8145

**SAFETY BOOTH** 



ART. NO. 5850012 5000

SAFETY CURTAIN

SCUFF GUARD 70 CM



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ART. NO. 5880060 5918

**ART. NO.** 5880050 5978

### **ACCESSORIES**

HOSE PROTECTION 3000 BAR



HOSE PROTECTION 500 BAR

ART. NO. 5800010 5885

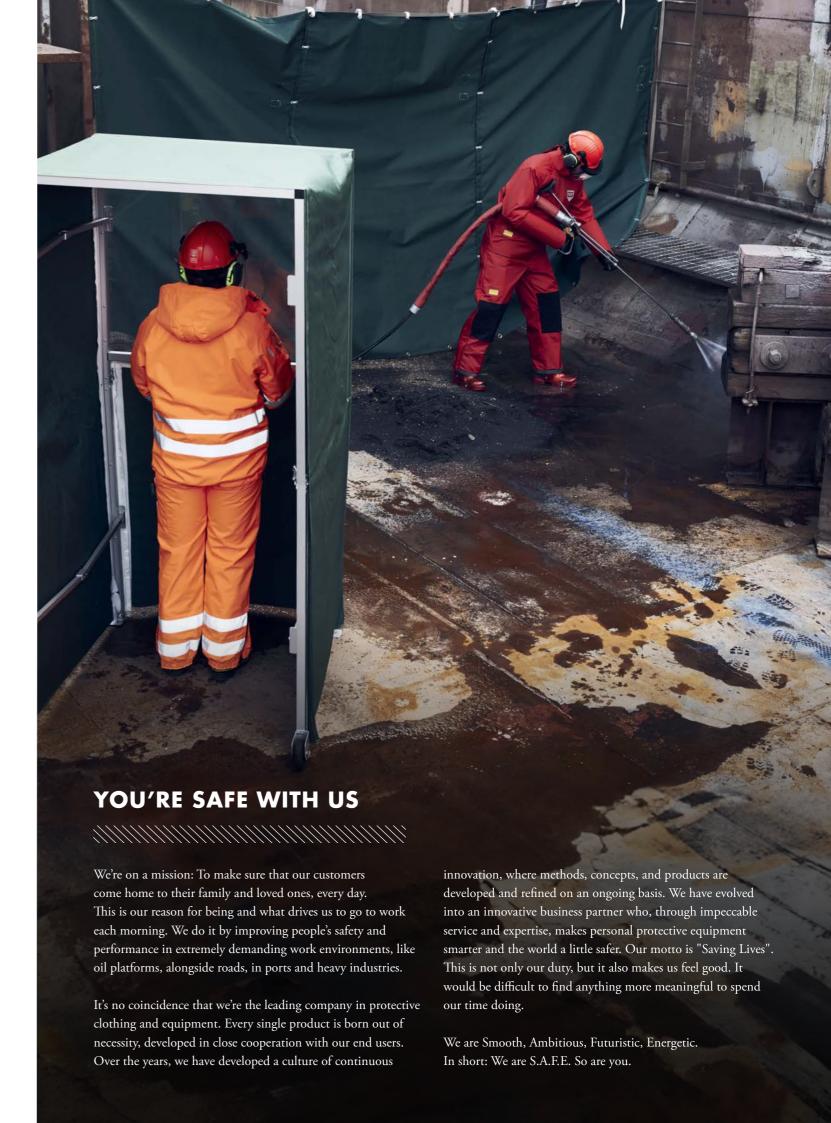


HOSE CONNECTION COVER



WHIP STOP

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## MINIMIZE THE **SAFETY AREA**

Safety areas around high pressure water needs to be restrained. WSS products allow you to minimize this area to 1.5 m from the danger, for instance when repairing bridges, cars and people can pass just a few meters away. In marine and shipping environments, where confined spaces are common, WSS enables several operators to work closer together.



# MADE IN DURABLE **TECHSTEEL**<sup>™</sup>

Our Workplace Safety Solution range is made of an extremely strong fabric called Techsteel™. The fabric is both dirt and water repellent, which makes the products easy to clean. The material is furthermore reinforced with Vectran\* (LCP) for maximum strength and durability. The request for these qualities comes originally from the industry of concrete removal and demolition.

Durability: > 500 000 Martindale.









### **PROTECTION LEVEL**

The fabric in the WSS products have been tested to withstand:

- Waterjets up to 3 000 bar / 43 500 psi, 43 l/m, distance: 1.5 m
- Waterjets up to 1 100 bar / 16 000 psi, 100 l/m, distance: 2.3 m
- Waterjets up to 1400 bar/20 300 psi, 40 l/min, distance 75 mm
- Steel bullet 6 mm, 120 m/s
- Stone shot 360 g, 13 m/s

See test tables on page 18.

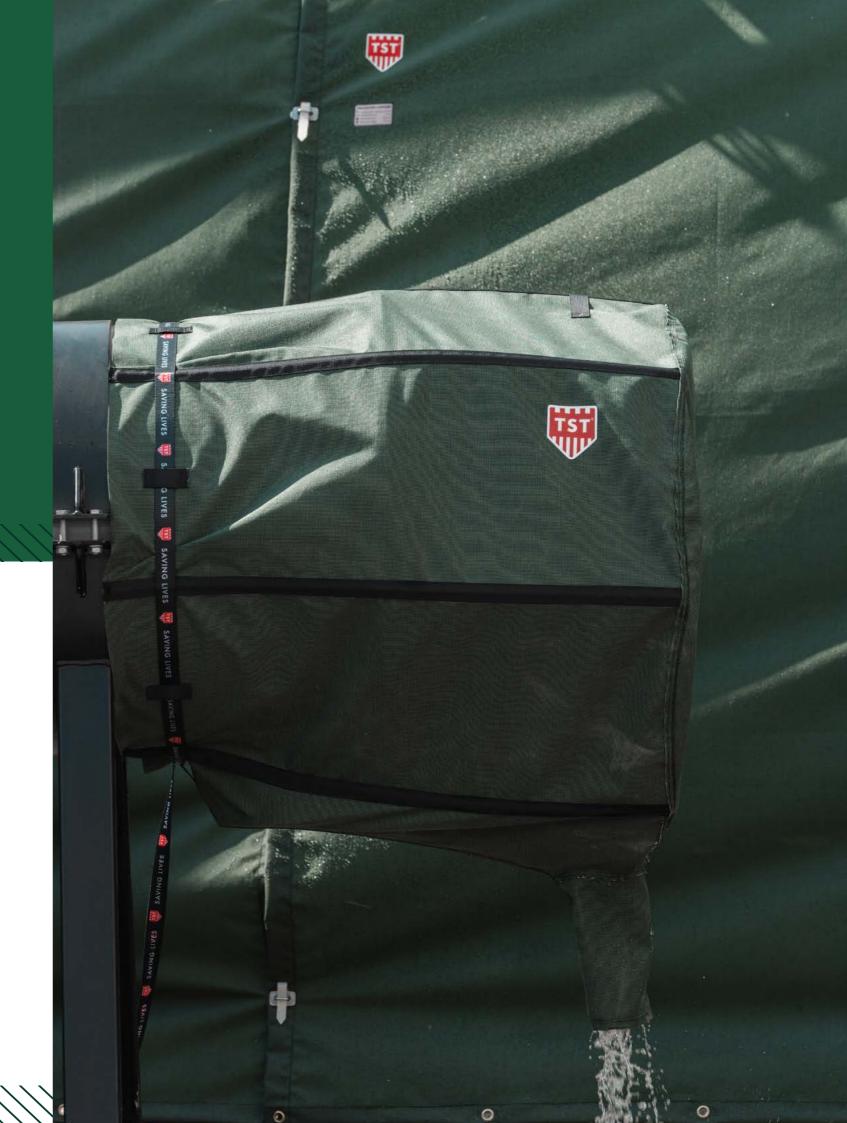




# TIME SAVING AND FLEXIBLE

With the WSS products you can quickly create barriers, especially compared to wooden boards. Several Protective Curtains can easily be linked together to create a circle or form a protective wall of desired length.











- Increases safety when cleaning heat exchangers.
- Prevents flying objects and water from hitting and injuring people and damaging equipment.
- Improves visibility by reducing the amount of steam and water jets around the heat exchanger.
- The waste water flows out through the Safety Funnel's outlet and can be collected in tanks or septic trucks. Outlet size: approx. Ø 10 cm
- Minimizes the need for site sanitization, resulting in valuable time and cost savings.
- Quick and easy application directly to the heat exchanger.
- Eliminates the need for built protection with e.g. wooden boards or plates.
- Reduces the noise level.
- Easy to clean thanks to the silicon treated Techsteel™ fabric that dirt particles doesn't stick to.

See test results on p. 18.

TUBE CLEANING NOZZLE 1 400 BAR / 20300 PSI							
PRODU	ICT SIZE	HEAT EXCH	ART. NO.				
Ø 70 cm	Ø 27.5 in	approx. Ø 40–70 cm	Ø 15.8–27.5 inch	5830010 8070			
Ø 145 cm	Ø 57 in	approx. Ø 71-145 cm	Ø 28-57 inch	5830010 8145			



### **SAFETY PIPE CAP**

- Increases safety when cleaning pipes.
- Prevents flying objects and water from hitting and injuring people and damaging equipment.
- Improves visibility by reducing the amount of steam and water jets around the pipes.
- The waste water flows out through the Safety Pipe Cap's outlet and can be collected in tanks or septic trucks.

  Outlet size: approx. Ø 5 cm on the 10 and 30 diameter Pipe Cap, and approx. Ø 10 cm on the 70 and 145 cm Pipe Cap.
- Minimizes the need for site sanitization, resulting in valuable time and cost savings.
- Quick and easy application directly to the pipe. Eliminates the need for built protection with e.g. wooden boards or plates.
- Reduces the noise level.
- Easy to clean thanks to the silicon treated Techsteel™ fabric that dirt particles doesn't stick to.

See test results on p. 18.

TUBE CLEANING NOZZLE 1 400 BAR / 20300 PSI							
PRODU	ICT SIZE	PIPE	SIZE	ART. NO.			
Ø 10 cm	Ø 3.9 in	approx. Ø 5–10 cm	Ø 2-4 inch	5830020 8010			
Ø 30 cm	Ø 11.8 in	approx. Ø 11−30 cm	Ø 4.3–11.8 inch	5830020 8030			
Ø 70 cm	Ø 27.5 in	approx. Ø 40-70 cm	Ø 15.8–27.5 inch	5830020 8070			
Ø 145 cm	Ø 57 in	approx. Ø 71-145 cm	Ø 28-57 inch	5830020 8145			











### **SAFETY BOOTH**

- Provides a safe and comfortable working environment for the operator, with shelter from water, wind, sun, rain, hail, and snow. Add your own fan or heater for additional comfort.
- Made of extremely durable Techsteel® fabric.
- Measurements: Height: approx. 215 cm, length and width: 101 x 101 cm.
- Four straps for anchoring on each of the two sides of the booth.
- Foldable and easy to assemble and disassemble.

SINGLE 3 000 BAR / 43 500 PSI

- Easy to clean thanks to the silicon treated Techsteel™ fabric that dirt particles doesn't stick to.
- Possible to connect to the Safety Curtain.

See test results on p. 18.





### **SAFETY CURTAIN**

- Can be put together to form a protective wall of desired length. Each section is approx. 152 x 250 cm/5x8.2 ft and when put together they build 147 cm/4.8 ft per curtain.
- Straps on top for easy mounting and holes at the bottom for further securing.
- The sections are easy to connect with strong, easily handled locks.

See test results on p. 18.



SINGLE 3 000 BAR / 43 500 PSI							
SIZE	WEIGHT	ART. NO.					

## **SCUFF GUARD**

- Protects valuable hoses from wear and tear.
- Made in extremely durable Techsteel<sup>™</sup> fabric.
- Available in two sizes: 70 cm length, Ø 12 cm 500 cm length, Ø 5,5 cm
- The 70 cm version is easy to mount as it is closed with hooks & loops. The 5 m version is like a tube.
- Eyelets for fastening at the ends. Several Scugff Guards can be linked together.
- Can be pushed together so that a 5 m Scuff Guard fits a e.g. 4 m hose.
- No protection against hose burst nor pinhole leaks.

LEN	LENGTH Ø		ART. NO.	MOD. NO.
70 cm	2.3 ft	12 cm / 4.7 inch	5880060	5918
500 cm	16.4 ft	5,5 cm / 2.2 inch	5880050	5978

SIZE WEIGHT ART. NO. 215 x 101 x 101cm 85 x 40 x 40 inch 20.4 kg 5850012 5000 152 x 250 cm 5 x 8.2 ft 2.2 kg 5800010 5885





### **HOSE PROTECTION**

The greatest risk areas of a hose break are near or on the waterjet gun; areas often very close to the operator and near sensitive areas of the body, such as the abdomen, the arm pit or the neck. These are difficult areas to properly protect.

The Hose Protection, placed on the hose at the connection to the lance, protects the operator if a coupling or a hose breaks or if a pinhole leak occurs. In many countries, the use of hose protection is mandatory. And in some countries a whip stop is also required. Check the rules and regulations in your region.

We recommend at least 1 400 mm/4.6 ft length. With this length, the operator has the best possible protection of the body. Also, the Hose Protection lies on the ground which means the operator doesn't have to carry the weight.



Hose Protection with swivel makes work easier and more ergonomic. Operators experience less strain on the body, as the swivel rotates freely around the Hose Protection's steel collar and follows the operator's movement.

We highly recommend using our Hose Protection with swivel!



### **SOLID STEEL COLLAR**

Closest to the lance, where the hose is most likely to break, there is a 250 mm / 9.8 in. solid steel collar on the Hose Protection 3000 bar range, which effectively protects the operator in the event of an accident.





### **HOSE PROTECTION 3000 BAR**

- Provides effective protection for the operator. Tested for 3 000 bar / 43 500 psi. *See test results on p. 18.*
- An adjustable strap holds the Hose Protection to the lance.
- Metal ring at the bottom, a wear and tear protection for when the hose is on the ground.

LENG	· T11	ART. NO.	MOD NO		
LENG	FIH .	AKI. NO.	MOD. NO	).	
750 mm	2.5 ft.	5060040	5920		
1400 mm	4.6 ft.	5060040	5940		
1800 mm	5.9 ft.	5060040	5960		
HOSE	PROTECTION	N Ø 38 MM PIPE EXT	ENSION 260M	м	
1400 mm	4.6 ft.	5060043	5940		
	HOSE PRO	OTECTION Ø 47 MM	SWIVEL	BES1 SELLE	
1400 mm	4.6 ft.	5060050	5942		
н	OSE PROTEC	TION Ø 47 MM TUBE	EXTENSION		
750 mm	2.5 ft.	5060051	5920		
	HOSE	PROTECTION Ø 59	мм		
750 mm	2.5 ft.	5060060	5920		
1400 mm	4.6 ft.	5060060	5940		

5060060

5960



### **HOSE PROTECTION 500 BAR**

- Provides effective protection for the operator. Tested for 500 bar/7 500 psi. *See test results on p. 18.*
- An adjustable strap holds the Hose Protection securely in place.
- Very smooth and flexible.

HOSE PROTECTION Ø 41 MM/1.6 IN.					
LENG	ЭТН	ART. NO.			
750 mm	2.5 ft.	5660045 5920			
1 400 mm	4.6 ft.	5660045 5940			

HOSE PROTECTION Ø 65 MM/2.6 IN.						
LEN	GТH	ART. NO.				
750 mm	2.5 ft.	5660063 5920				





## **HOSE CONNECTION COVER**

The Hose Connection Cover protects people working near, or passing by, foot pedals and pumps. Is to be used where hoses have couplings and connections. Does not replace a Hose Protection near the body, when using a waterjet gun.

- An adjustable strap holds the Connection Cover securely in place.
- Loops to further fasten and assemble several covers.
- Tested for hose bursts at 3 000 bar/43 500 psi, but not for pinhole leaks.

See test results on p. 18.

## **WHIP STOP**

For securing hose ends at foot pedals, pumps or connections. Catches the broken hose and prevents it from whipping. Mounted by slipping it over the hose ends, stretching it and finally tightening the ends, securing with the rubber lock rings.

- Made in strong polyester. Easy to carry, easy to clean.
- Tensile strength 30 kN/3 tons.
- Width approx 25 mm/1 in.
- Sold in packs of 50 pcs.
- Produced and tested in accordance with EN 12195-2.

Ø 61 MM / 2.4 IN.								
LENGTH WEIG		GHT	ART. NO.	MOD. NO				
40 cm	1 ft 4 in.	0.4 kg	0.9 lbs.	5071000	5910			
500 cm	16 ft 5 in.	3.8 kg	8.4 lbs.	5071000	5978			

TENSILE STRENGTH	LEN	GТН	ART. NO.		
30 000 N	Approx. 75 cm	Approx. 2.5 ft	5072000 5000		



### **TEST RESULTS**

#### **WORKPLACE SAFETY SOLUTIONS: HIGH PRESSURE WATER JET TEST**

Test is	Pressure Flow Test is								
relevant for	Bar	Psi	Litre/minute	Gallon/ minute	Nozzle	Newton Distance		Result	
Safety Curtain	1100	16 000	100	26.4	Single	740	2.3 m	7.5 ft	No penetration
Safety Curtain	3 000	43 500	43	11.4	Single	550	1.5 m	5 ft	No penetration
Safety Funnel	1 400	20 300	40	10.5	* Tube nozzle	350	75 mm	3 in.	No penetration
Safety Pipe Cap	1 400	20 300	40	10.5	* Tube nozzle	350	75 mm	3 in.	No penetration
Safety Booth	3 000	43 500	43	11.4	Single	550	1.5 m	5 ft	No penetration

#### **WORKPLACE SAFETY SOLUTIONS: PROJECTILE TEST**

Linear Projectile		r speed	Number	Result	ISO
Projectile	m/s	ft/sec	of textile layers	Result	Standard
Steel bullet, 6 mm	120	393.7	1	No penetration	EN ISO 168
Stone shot, 360 g	13	42.7	1	No penetration	EN ISO 1794-1

#### **HOSE PROTECTION**

Product		Burst test				Pinhole leak test		
Froduct	Tested	bar	psi	Result	Tested	Result		
Hose Protection 3000 bar	Yes	3 000	43 500	No penetration	Yes	No penetration		
Hose Connection Cover	Yes	3 000	43 500	No penetration	No	-		
Hose Protection 500 bar	Yes	1 800	26 100	No penetration	No	-		
Scuff Guard	No	-	-	-	No	-		
Whip Stop	-	-	-	30 kN	-	-		

### **TECHNICAL DESCRIPTION**

#### **WORKPLACE SAFETY SOLUTIONS**

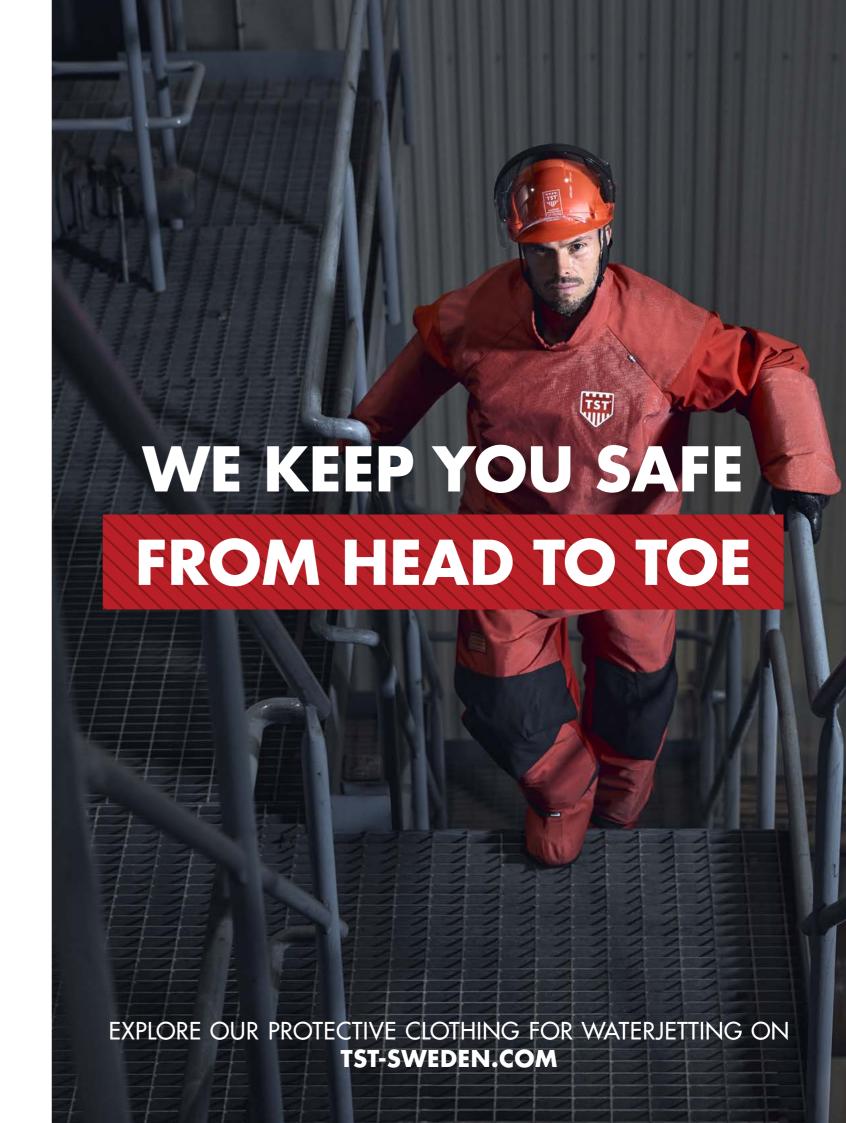
Material: DWR (Durable Water Repellent) treated Techsteel<sup>™</sup>.

### MARTINDALE ABRASION TEST

The Martindale abrasion test simulates natural wear of a textile, in which the textile sample is rubbed against a standard abrasive surface with a specified force. Domestic cotton fabrics often have a rating of 20 000 rubs and polyester fabrics have 30 000.

The Techsteel™ fabric used in the Workplace Safety Solutions products has over 500 000, making it extremely durable.

The method for Martindale test is EN ISO 12947-1:1998.







### **TST Sweden AB**

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