

**CONTRACOR<sup>®</sup>**  
CORROSION CONTROL



**CATALOGUE #1**

***Abrasive Blast Nozzles***

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This Catalogue is valid from 01.04.2024.

All previous catalogues lose their validity with the publication of the new catalogue.

Technical characteristics, specifications and details published in this catalogue are subject to change without notice.

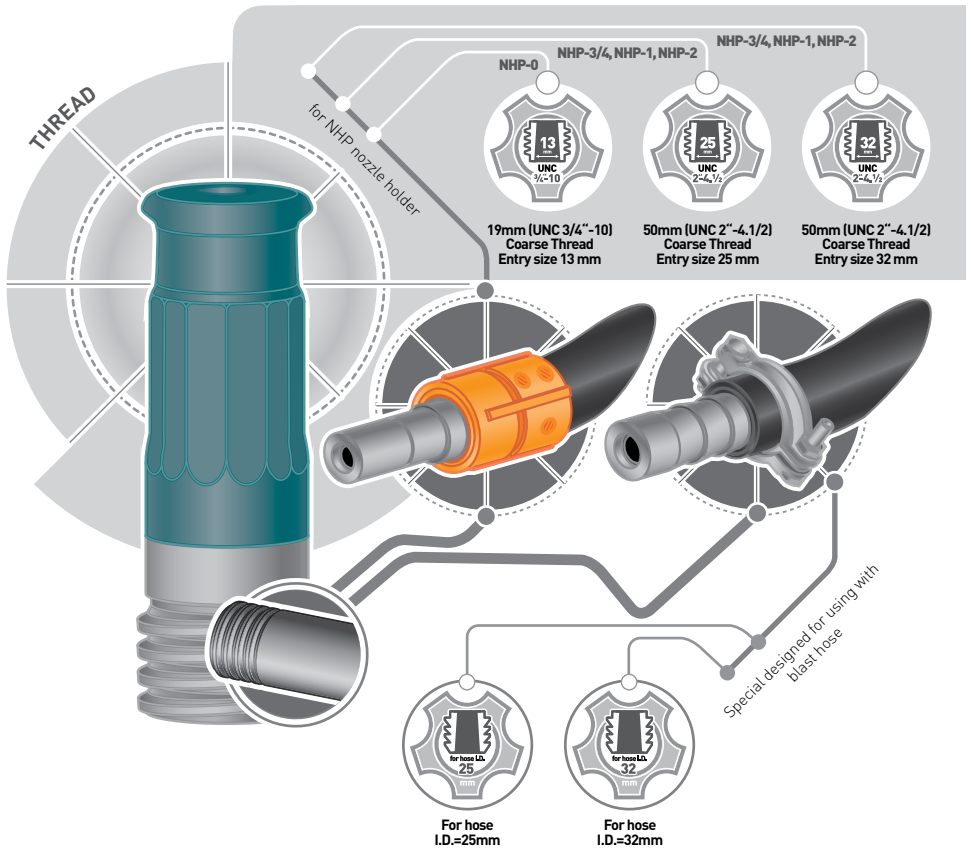
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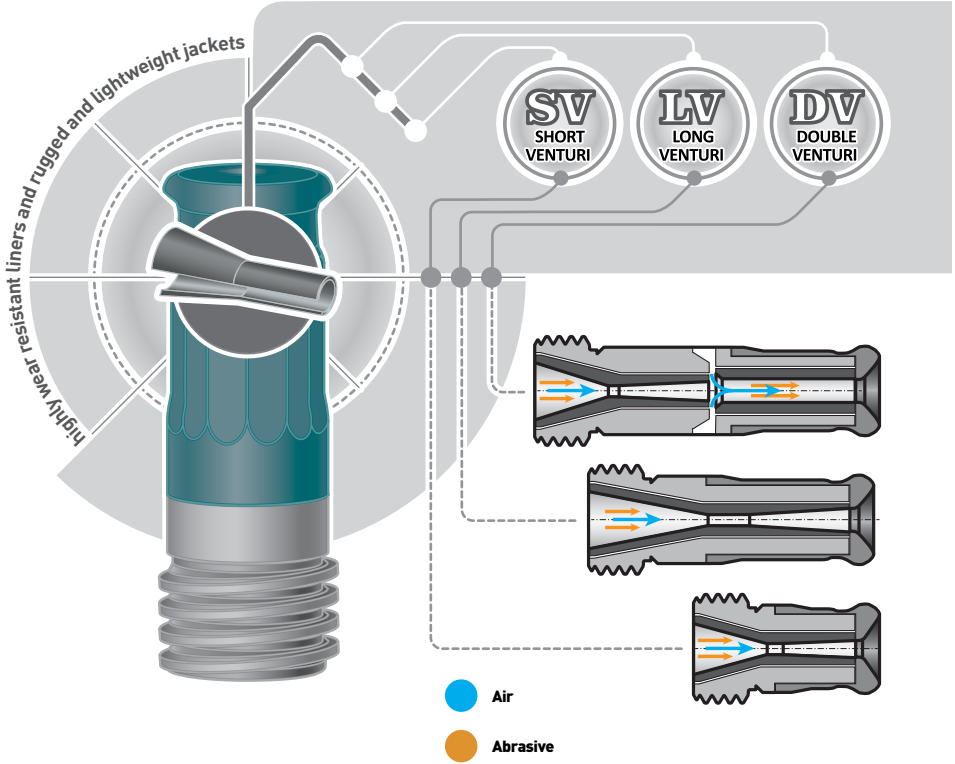
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# CONTRACOR BLAST NOZZLES

## highly wear resistant liners and rugged and lightweight jackets

Contracor offers a wide choice of abrasive blast nozzles made from high-quality tungsten carbide, silicon carbide or boron carbide. Various nozzle types and jacket materials are available.





### Short venturi blast nozzles

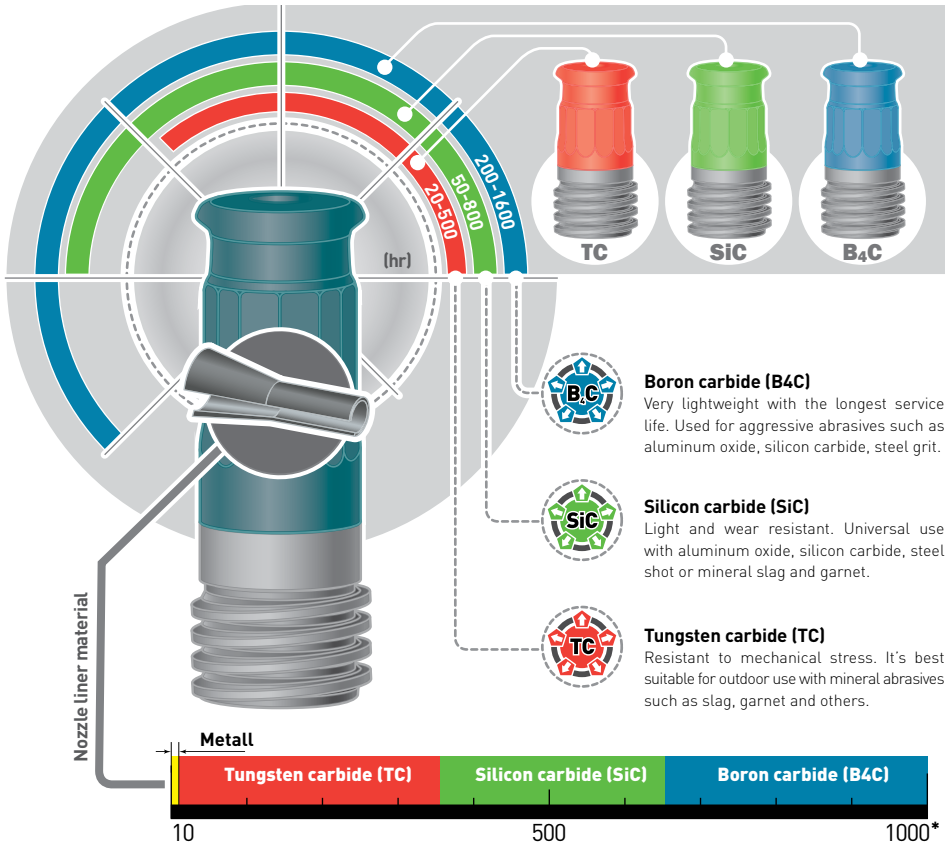
Developed for small distances to the blasted surface and produce the widest possible blast pattern at the shortest distance.

### Long venturi blast nozzles

Venturi bore nozzles produce a wide blast pattern and intensify abrasive velocity as much as 100% per given pressure. Venturi nozzles are the best option for increased productivity when blasting larger areas. Long Venturi style nozzles provide approximately a 40% increase in productivity in comparison with straight bore nozzles. Additionally, abrasive consumption can be reduced by about 40%.

### Double venture blast nozzles

The double Venturi style can be regarded as two nozzles in a row with a gap and holes in between to facilitate the entry of atmospheric air into the downward part of the nozzle. The exit segment is also wider than an ordinary nozzle. This modification increases the size of the blast pattern and minimizes a reduction in abrasive velocity.



\* All values are indicative and approximate and given for nozzle comparison purposes only. Actual nozzle service life will depend on blast media, blast pressure, media dimensions and media particle profile.

### Table blast nozzle service life comparisons - approximate service life in hours (hr)

Nozzle liner material	Steel shot / grit	Slags / Expendable medias	Fused alumina/ Corundum
Tungsten carbide (TC)	300-500	300-400	20-40
Silicon carbide (SiC)	500-800	450-600	50-100
Boron carbide (B <sub>4</sub> C)	1000-1600	750-1000	200-600

## BLAST NOZZLE COMPRESSED AIR CONSUMPTION

New modern and highly wear resistant liners are equipped with rugged and lightweight jackets. Whether blasting with high aggressive Fused Aluminas, Silicon Carbides and Steel Grits or blasting with Expendable slag-based abrasives - in Contracor nozzles range you will find the best suitable nozzle for your application. Contracor blast nozzles are available in five sizes to achieve maximum productivity of abrasive blast cleaning system. You can select correct nozzle bore to suit compressed air supply and optimize blast media consumption.

**Table blast nozzle compressed air consumption (m<sup>3</sup>/min)**

Pressure (bar)	Nozzle diameter (mm)						
	3,5	5,0	6,5	8,0	9,5	11,0	12,5
1	0,10	0,25	0,40	0,65	0,95	1,35	1,90
2	0,20	0,50	0,80	1,30	1,80	2,55	3,50
3	0,30	0,65	1,15	1,90	2,65	3,60	4,85
4	0,35	0,80	1,50	2,45	3,40	4,60	6,05
5	0,40	0,95	1,80	2,95	4,15	5,55	7,25
6	0,50	1,10	2,05	3,40	4,85	6,45	8,40
7	0,60	1,25	2,30	3,90	5,55	7,35	9,55
8	0,65	1,40	2,55	4,35	6,20	8,20	10,65
9	0,70	1,55	2,80	4,85	6,90	9,10	11,75
10	0,80	1,70	3,05	5,30	7,55	10,0	12,90



**PROTECTOR  
PERFORMER  
DEFENDER**

***New high-performance blast nozzles***  
*Increasing the production rate without additional costs.*

***part #1***

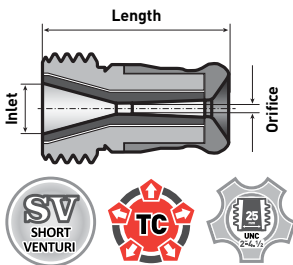


## Blast nozzles PROTECTOR

Protector is the latest development of high performance short venturi blast cleaning nozzles. Designed for blasting at short distances of 300 mm to 450 mm to the blasted surface.

New, modern and very wear-resistant nozzle cores are equipped with stable and lightweight polyurethane coatings. Whether you are blasting with highly aggressive blasting media such as aluminum oxide, silicon carbide, steel grit or with disposable blasting media, with the Contracor Protector blasting nozzle series you will always find the right nozzle. The Protector blasting nozzles are available in six sizes to achieve the highest level of sandblasting performance. You can choose the right nozzle bore to adjust the compressed air supply and optimize steel media consumption.

### PROTECTOR-400



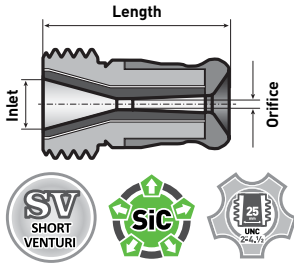
Very wear-resistant short venturi blast nozzle made of tungsten carbide.

**Lifespan:** Up to 400 hours. **Covering:** Polyurethane. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 25 mm.

Order code	Model	Description
10113031	Protector 400 x 5.0	Short-Venturi blast nozzle, tungsten carbide (TC), 5.0 mm x 80 mm
10113032	Protector 400 x 6.5	Short-Venturi blast nozzle, tungsten carbide (TC), 6.5 mm x 80 mm
10113033	Protector 400 x 8.0	Short-Venturi blast nozzle, tungsten carbide (TC), 8.0 mm x 80 mm
10113034	Protector 400 x 9.5	Short-Venturi blast nozzle, tungsten carbide (TC), 9.5 mm x 80 mm
10113035	Protector 400 x 11.0	Short-Venturi blast nozzle, tungsten carbide (TC), 11.0 mm x 80 mm
10113036	Protector 400 x 12.5	Short-Venturi blast nozzle, tungsten carbide (TC), 12.5 mm x 80 mm



## PROTECTOR-600

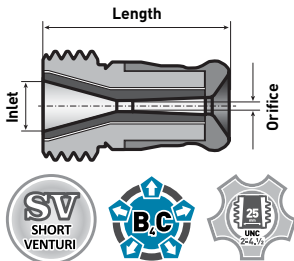


Very wear-resistant short venturi blast nozzle made of silicon carbide.

**Lifespan:** Up to 600 hours. **Covering:** Polyurethane. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 25 mm.

Order code	Model	Description
10113041	Protector 600 x 5.0	Short-Venturi blast nozzle, silicon carbide (SiC), 5.0 mm x 80 mm
10113042	Protector 600 x 6.5	Short-Venturi blast nozzle, silicon carbide (SiC), 6.5 mm x 80 mm
10113043	Protector 600 x 8.0	Short-Venturi blast nozzle, silicon carbide (SiC), 8.0 mm x 80 mm
10113044	Protector 600 x 9.5	Short-Venturi blast nozzle, silicon carbide (SiC), 9.5 mm x 80 mm
10113045	Protector 600 x 11.0	Short-Venturi blast nozzle, silicon carbide (SiC), 11.0 mm x 80 mm
10113046	Protector 600 x 12.5	Short-Venturi blast nozzle, silicon carbide (SiC), 12.5 mm x 80 mm

## PROTECTOR-1000



Very wear-resistant short venturi blast nozzle made of boron carbide.

**Lifespan:** Up to 1000 hours. **Covering:** Polyurethane. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 25 mm.

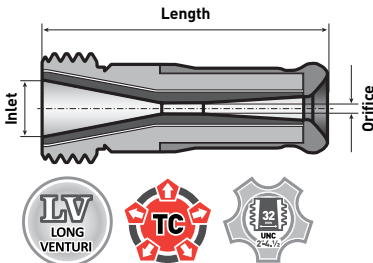
Order code	Model	Description
10113051	Protector 1000 x 5.0	Short-Venturi blast nozzle, boron carbide (B4C), 5.0 mm x 80 mm
10113052	Protector 1000 x 6.5	Short-Venturi blast nozzle, boron carbide (B4C), 6.5 mm x 80 mm
10113053	Protector 1000 x 8.0	Short-Venturi blast nozzle, boron carbide (B4C), 8.0 mm x 80 mm
10113054	Protector 1000 x 9.5	Short-Venturi blast nozzle, boron carbide (B4C), 9.5 mm x 80 mm
10113055	Protector 1000 x 11.0	Short-Venturi blast nozzle, boron carbide (B4C), 11.0 mm x 80 mm
10113056	Protector 1000 x 12.5	Short-Venturi blast nozzle, boron carbide (B4C), 12.5 mm x 80 mm

## Blast nozzles PERFORMER

Performer is the latest development of high performance Venturi blast cleaning nozzles. New modern and highly wear resistant liners are equipped with a rugged and lightweight polyurethane jacket. Whether blasting with high aggressive Fused Aluminas, Silicon Carbides and Steel Grits or blasting with Expendable slag-based abrasives - in Contracor Performer nozzles range you will find the best suitable nozzle for your application.

Performer nozzles are available in five sizes to achieve maximum productivity of abrasive blast cleaning system. You can select correct nozzle bore to suit compressed air supply and optimize blast media consumption.

### PERFORMER-400

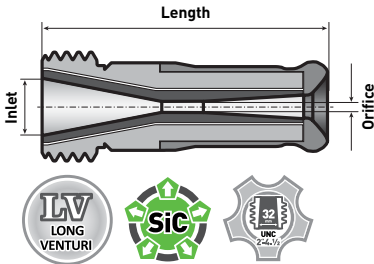


Wear-resistant Venturi blasting nozzles made of tungsten carbide (TC).

**Lifespan:** Up to 400 hours. **Covering:** Polyurethan. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 32 mm.

Order code	Model	Description
10113061	Performer 400 x 5.0	Venturi nozzle, tungsten carbide (TC), 5.0 mm x 130 mm
10113062	Performer 400 x 6.5	Venturi nozzle, tungsten carbide (TC), 6.5 mm x 130 mm
10113063	Performer 400 x 8.0	Venturi nozzle, tungsten carbide (TC), 8.0 mm x 150 mm
10113064	Performer 400 x 9.5	Venturi nozzle, tungsten carbide (TC), 9.5 mm x 170 mm
10113065	Performer 400 x 11.0	Venturi nozzle, tungsten carbide (TC), 11.0 mm x 200 mm
10113066	Performer 400 x 12.5	Venturi nozzle, tungsten carbide (TC), 12.5 mm x 210 mm

## PERFORMER-600

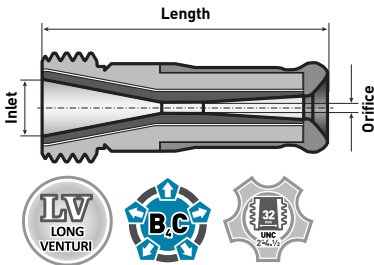


Wear-resistant Venturi blasting nozzles made of silicon carbide (SiC).

**Lifespan:** Up to 600 hours. **Covering:** Polyurethan. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 32 mm.

Order code	Model	Description
10113071	Performer 600 x 5.0	Venturi nozzle, silicon carbide (SiC), 5.0 mm x 130 mm
10113072	Performer 600 x 6.5	Venturi nozzle, silicon carbide (SiC), 6.5 mm x 130 mm
10113073	Performer 600 x 8.0	Venturi nozzle, silicon carbide (SiC), 8.0 mm x 150 mm
10113074	Performer 600 x 9.5	Venturi nozzle, silicon carbide (SiC), 9.5 mm x 170 mm
10113075	Performer 600 x 11.0	Venturi nozzle, silicon carbide (SiC), 11.0 mm x 200 mm
10113076	Performer 600 x 12.5	Venturi nozzle, silicon carbide (SiC), 12.5 mm x 210 mm

## PERFORMER-1000



Wear-resistant Venturi blasting nozzles made of boron carbide (B4C).

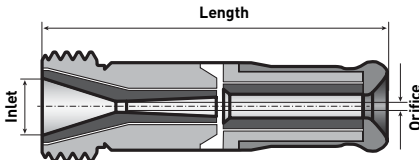
**Lifespan:** Up to 1000 hours. **Covering:** Polyurethan. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 32 mm.

Order code	Model	Description
10113081	Performer 1000 x 5.0	Venturi nozzle, boron carbide (B4C), 5.0 mm x 130 mm
10113082	Performer 1000 x 6.5	Venturi nozzle, boron carbide (B4C), 6.5 mm x 130 mm
10113083	Performer 1000 x 8.0	Venturi nozzle, boron carbide (B4C), 8.0 mm x 150 mm
10113084	Performer 1000 x 9.5	Venturi nozzle, boron carbide (B4C), 9.5 mm x 170 mm
10113085	Performer 1000 x 11.0	Venturi nozzle, boron carbide (B4C), 11.0 mm x 200 mm
10113086	Performer 1000 x 12.5	Venturi nozzle, boron carbide (B4C), 12.5 mm x 210 mm

## Blast nozzles DEFENDER

Extremely wear-resistant, extra-long double-venturi blast nozzles, made of silicon carbide (SiC). The extra long double venturi design can be viewed as two nozzles in a row, with a gap and holes between them through which ambient air is drawn into the second segment of the nozzle. The exit segment is also wider than a regular nozzle. This change increases the size of the blast pattern and the blast speed.

### DEFENDER-600

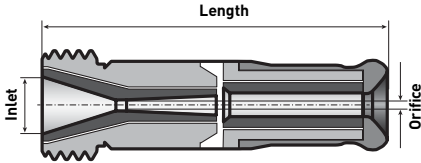


Very wear-resistant, extra long double-venturi blast nozzle made of silicon carbide.

**Lifespan:** Up to 600 hours. **Covering:** Polyurethan. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 32 mm.

Order code	Model	Description
10113012	Defender 600 x 6.5	Extra long double venturi blast nozzle, silicon carbide, 6.5 x 192 mm
10113013	Defender 600 x 8.0	Extra long double venturi blast nozzle, silicon carbide, 8.0 x 209 mm
10113014	Defender 600 x 9.5	Extra long double venturi blast nozzle, silicon carbide, 9.5 x 240 mm
10113015	Defender 600 x 11.0	Extra long double venturi blast nozzle, silicon carbide, 11.0x 279 mm
10113016	Defender 600 x 12.5	Extra long double venturi blast nozzle, silicon carbide, 12.5 x 309 mm

## DEFENDER-1000



Very wear-resistant extra long double venturi blast nozzle made of boron carbide.

**Lifespan:** Up to 1000 hours. **Covering:** Polyurethan. **Thread:** Aluminum, 50mm UNC coarse thread. **Inlet opening:** 32 mm.

Order code	Model	Description
10113022	Defender 1000 x 6.5	Extra long double venturi blast nozzle, boron carbide, 6.5 x 192 mm
10113023	Defender 1000 x 8.0	Extra long double venturi blast nozzle, boron carbide, 8.0 x 209 mm
10113024	Defender 1000 x 9.5	Extra long double venturi blast nozzle, boron carbide, 9.5 x 240 mm
10113025	Defender 1000 x 11.0	Extra long double venturi blast nozzle, boron carbide, 11.0x 279 mm
10113026	Defender 1000 x 12.5	Extra long double venturi blast nozzle, boron carbide, 12.5 x 309 mm



**RTC**  
**STC**

***Standard type universal blast nozzles***

***part #2***

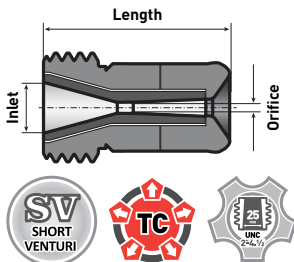


## Standard type universal blast nozzles

Wear-resistant Venturi blasting nozzles made of tungsten carbide (TC).

Venturi bore nozzles produce a wide blast pattern and intensify abrasive velocity as much as 100% per given pressure. Venturi nozzles are the best option for increased productivity when blasting larger areas.

### STC

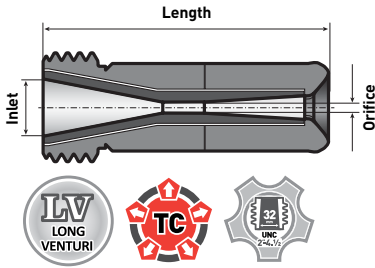


Sehr verschleißresistente Venturi Strahldüsen, hergestellt aus Wolframkarbid (TC).

**Lifespan:** Up to 400 hours. **Covering:** Rubber. **Thread:** Rubber, 50 mm for NHP nozzle holder. **Inlet opening:** 25 mm.

Order code	Model	Description
10112570	STC-5.0	Short Venturi nozzle, tungsten carbide (TC), 5.0 mm x 80 mm
10112571	STC-6.5	Short Venturi nozzle, tungsten carbide (TC), 6.5 mm x 80 mm
10112572	STC-8.0	Short Venturi nozzle, tungsten carbide (TC), 8.0 mm x 80 mm
10112573	STC-9.5	Short Venturi nozzle, tungsten carbide (TC), 9.5 mm x 80 mm
10112574	STC-11.0	Short Venturi nozzle, tungsten carbide (TC), 11.0 mm x 80 mm
10112575	STC-12.5	Short Venturi nozzle, tungsten carbide (TC), 12.5 mm x 80 mm

## RTC



Wear-resistant Venturi blasting nozzles made of tungsten carbide (TC).

**Lifespan:** Up to 400 hours. **Covering:** Rubber. **Thread:** Rubber, 50 mm for NHP nozzle holder. **Inlet opening:** 32 mm.

Order code	Model	Description
10112062	RTC-6.5	Venturi nozzle, tungsten carbide (TC), 6.5 mm x 130 mm
10112063	RTC-8.0	Venturi nozzle, tungsten carbide (TC), 8.0 mm x 150 mm
10112064	RTC-9.5	Venturi nozzle, tungsten carbide (TC), 9.5 mm x 170 mm
10112065	RTC-11.0	Venturi nozzle, tungsten carbide (TC), 11.0 mm x 200 mm
10112066	RTC-12.5	Venturi nozzle, tungsten carbide (TC), 12.5 mm x 210 mm

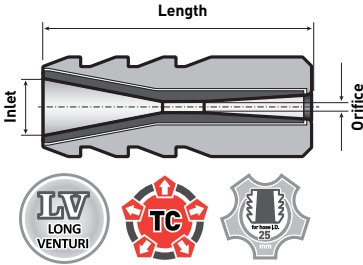


**GTC/HTC**  
**GBC/HBC**

***Stick-up type blast nozzles***

***part #3***

## GTC

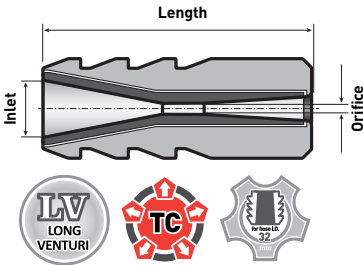


Wear-resistant Venturi type hose insert nozzles made of tungsten carbide (TC). Special designed for using with blast hose ID=25 mm.

**Lifespan:** Up to 400 hours. **Covering:** Aluminum.

Order code	Model	Description
10112031	GTC-5.0	Venturi nozzle, tungsten carbide (TC), 5.0 mm x 100 mm
10112032	GTC-6.5	Venturi nozzle, tungsten carbide (TC), 6.5 mm x 100 mm
10112033	GTC-8.0	Venturi nozzle, tungsten carbide (TC), 8.0 mm x 100 mm

## HTC

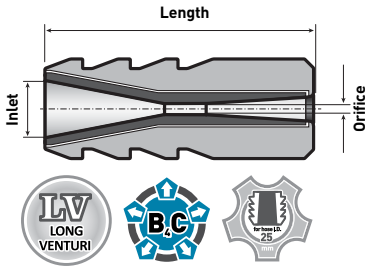


Wear-resistant Venturi type hose insert nozzles made of tungsten carbide (TC). Special designed for using with blast hose ID=32 mm.

**Lifespan:** Up to 400 hours. **Covering:** Aluminum.

Order code	Model	Description
10112502	HTC-6.5	Venturi nozzle, tungsten carbide (TC), 6.5 mm x 130 mm
10112503	HTC-8.0	Venturi nozzle, tungsten carbide (TC), 8.0 mm x 130 mm
10112504	HTC-9.5	Venturi nozzle, tungsten carbide (TC), 9.5 mm x 150 mm
10112505	HTC-11.0	Venturi nozzle, tungsten carbide (TC), 11.0 mm x 170 mm
10112506	HTC-12.5	Venturi nozzle, tungsten carbide (TC), 12.5 mm x 120 mm

## GBC

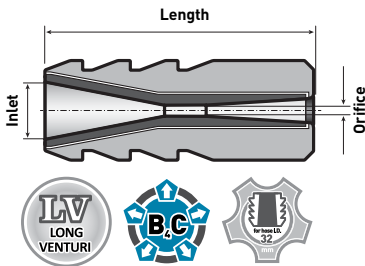


Wear-resistant Venturi blasting nozzles made of boron carbide (B4C). Special designed for using with blast hose ID=25 mm.

**Lifespan:** Up to 1000 hours. **Covering:** Aluminum.

Order code	Model	Description
10112071	GBC-5.0	Venturi nozzle, boron carbide (B4C), 5.0 mm x 100 mm
10112072	GBC-6.5	Venturi nozzle, boron carbide (B4C), 6.5 mm x 100 mm
10112073	GBC-8.0	Venturi nozzle, boron carbide (B4C), 8.0 mm x 100 mm

## HBC



Wear-resistant Venturi blasting nozzles made of boron carbide (B4C). Special designed for using with blast hose ID=32 mm.

**Lifespan:** Up to 1000 hours. **Covering:** Aluminum.

Order code	Model	Description
10112082	HBC-6.5	Venturi nozzle, boron carbide (B4C), 6.5 mm x 130 mm
10112083	HBC-8.0	Venturi nozzle, boron carbide (B4C), 8.0 mm x 130 mm
10112084	HBC-9.5	Venturi nozzle, boron carbide (B4C), 9.5 mm x 150 mm
10112085	HBC-11.0	Venturi nozzle, boron carbide (B4C), 11.0 mm x 170 mm
10112086	HBC-12.5	Venturi nozzle, boron carbide (B4C), 12.5 mm x 120 mm





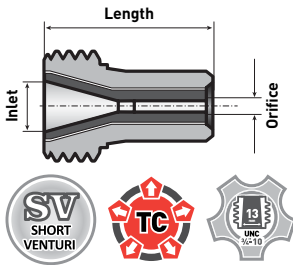
**NTC**  
**ATC**  
**BTC**

***Special type blast nozzles***

***part #4***



## NTC

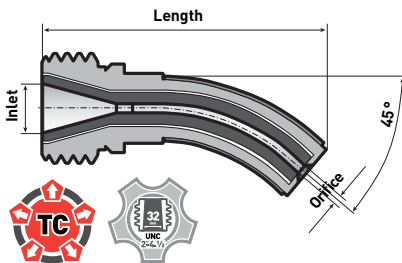


Wear-resistant short Venturi blasting nozzles made of tungsten carbide (TC)..

**Lifespan:** Up to 400 hours. **Covering:** Aluminum. **Thread:** 3/4 UNC for NHP-0 nozzle holder. **Inlet opening:** 13 mm.

Order code	Model	Description
10112550	NTC-3.5	Short Venturi nozzle, tungsten carbide (TC), 3,5 mm x 45 mm
10112551	NTC-5.0	Short Venturi nozzle, tungsten carbide (TC), 5,0 mm x 45 mm
10112552	NTC-6.5	Short Venturi nozzle, tungsten carbide (TC), 6,5 mm x 45 mm
10112553	NTC-8.0	Short Venturi nozzle, tungsten carbide (TC), 6,5 mm x 45 mm

## BTC



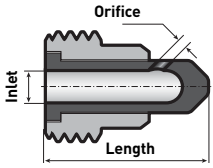
Bending nozzles are used for getting inside tight or hard to reach places like corners, behind flanges or inside pipes. BTC type bending nozzles are compact and shoot out the abrasive at 45° angles. Made from tungsten carbide (TC). Fits all Contracor nozzle holders.

Highly wear-resistant angle type blasting nozzles. Made from tungsten carbide (TC).

**Lifespan:** Up to 400 hours. **Covering:** Aluminum / Polyurethane protector. **Thread:** 50 mm UNC coarse thread.

Order code	Model	Description
10112581	BTC-6.5	Bending nozzle, tungsten carbide, angle 45°, 6,5 mm x 125 mm
10112582	BTC-8.0	Bending nozzle, tungsten carbide, angle 45°, 8,0 mm x 125 mm
10112583	BTC-9.5	Bending nozzle, tungsten carbide, angle 45°, 9,5 mm x 125 mm
10112584	BTC-11.0	Bending nozzle, tungsten carbide, angle 45°, 11,0 mm x 125 mm
10112585	BTC-12.5	Bending nozzle, tungsten carbide, angle 45°, 12,5 mm x 125 mm

## ATC



Angle nozzles are used for getting inside tight or hard to reach places like corners, behind flanges or inside pipes. ATC type angle nozzles are compact and shoot out the abrasive at 45° angles. Made from tungsten carbide (TC). Fits all Contracor nozzle holders.

Highly wear-resistant angle type blasting nozzles. Made from tungsten carbide (TC).

**Lifespan:** Up to 400 hours. **Covering:** Aluminum. **Thread:** 50 mm UNC coarse thread.

Order code	Model	Description
10112511	ATC-5.0-1	Angle nozzles, tungsten carbide, bore 1x45°
10112512	ATC-6.5-1	Angle nozzles, tungsten carbide, bore 1x45°
10112513	ATC-8.0-1	Angle nozzles, tungsten carbide, bore 1x45°
10112514	ATC-9.5-1	Angle nozzles, tungsten carbide, bore 1x45°
10112521	ATC-5.0-2	Angle nozzles, tungsten carbide, bore 2x45°
10112522	ATC-6.5-2	Angle nozzles, tungsten carbide, bore 2x45°
10112523	ATC-8.0-2	Angle nozzles, tungsten carbide, bore 2x45°
10112524	ATC-9.5-2	Angle nozzles, tungsten carbide, bore 2x45°
10112531	ATC-5.0-3	Angle nozzles, tungsten carbide, bore 3x45°
10112532	ATC-6.5-3	Angle nozzles, tungsten carbide, bore 3x45°
10112533	ATC-8.0-3	Angle nozzles, tungsten carbide, bore 3x45°
10112534	ATC-9.5-3	Angle nozzles, tungsten carbide, bore 3x45°



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