
FLO-BLAST™
Nozzle Engineering

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FLO-BLAST™
Nozzle Engineering

INTRODUCTION

Global Supplies & Engineering Ltd is recognised as the UK's leading manufacturer of blast-cleaning nozzles, built upon the proven engineering heritage of Hydrablast, Uniblast and Bryar Group. Through decades of industry development, material expertise and continuous technical refinement, Flo-Blast™ has become a benchmark in abrasive blasting performance.

Flo-Blast™ nozzles are engineered for durability, dimensional accuracy and consistent output in the most demanding surface-preparation environments. Our portfolio represents one of the most comprehensive ranges of blast nozzles and advanced ceramic components available — developed to meet the operational demands of contractors, shipyards, heavy industry and fabrication facilities worldwide.

Careful selection of liner materials, precision bore geometry and optimised acceleration profiles ensure maximum abrasive velocity, improved coverage and extended service life. A wide choice of jacket types, thread forms and dimensional configurations allows each nozzle to be matched precisely to its intended duty.

Nozzle selection is not a minor detail — it directly influences productivity, abrasive efficiency and overall operating cost. Flo-Blast™ provides engineered solutions designed to maximise performance, minimise downtime and deliver measurable operational advantage.



MATERIAL & TECHNICAL DATA

Nozzle Selection Guide – Service Life & Performance

Choosing the correct liner material is fundamental to blast performance, running cost and service life. Material selection should reflect abrasive type, duty cycle, operator handling conditions and cost-per-hour considerations — not simply purchase price.



In practical field terms:

- **Tungsten Carbide (TC)** provides excellent resistance to impact and operational shock, maintaining bore integrity in harsh, high-duty blasting applications.
- **Silicon Carbide (SSiC)** offers an excellent balance of reduced weight and durability, improving handling while maintaining strong wear performance.
- **SiAlON (Advanced Silicon Nitride Ceramic)** delivers high mechanical toughness combined with extended wear life for demanding, continuous-use environments.
- **Boron Carbide (B_4C)** delivers the longest wear life for aggressive, high-abrasion media where maximum service interval is the priority.

Tungsten Carbide (TC)

Best suited for:
Demanding, high-duty blasting environments where impact resistance is critical.

Advantages:
- High toughness and impact resistance
- Durable under rough site conditions and accidental handling damage
- Proven, reliable all-round performance

Typical applications:
Steel grit, expendable mineral abrasives and mixed heavy industrial environments.

Silicon Carbide (SSiC)

Best suited for:
Long blasting shifts where reduced weight improves operator control and fatigue management.

Advantages:
- Lighter than Tungsten Carbide
- Higher wear resistance than TC
- Reduces operator fatigue
- Strong cost-to-performance balance

Typical applications:
Continuous blasting operations, general mineral abrasives and productivity-focused environments.

SiAlON (Advanced Silicon Nitride Ceramic)

Best suited for:
Demanding, continuous-duty applications requiring both mechanical toughness and extended wear life.

Overview:
SiAlON is an advanced silicon nitride–based ceramic engineered to provide a superior balance between wear resistance and structural strength. Unlike more brittle ceramics, SiAlON offers enhanced fracture toughness while maintaining excellent resistance to abrasive erosion.

Advantages:
- High fracture toughness
- Greater impact resistance than Boron Carbide
- Lighter than Tungsten Carbide
- Excellent combination of wear resistance and mechanical strength
- Improved reliability in high-utilisation environments

Typical applications:
Multi-shift production blasting, heavy industrial cleaning, high-abrasion media and continuous-duty environments.

Boron Carbide (B_4C)

Best suited for:
High-production blasting with aggressive or angular abrasives.

Advantages:
- Highest wear resistance
- Longest service life
- Ideal for aluminium oxide, garnet and other hard media
- Excellent cost-per-hour performance in continuous operation

Typical applications:
Aluminium oxide, garnet and high-intensity duty cycles.

Quick Reference Summary

- **Tungsten Carbide (TC)** – Durable, impact-resistant solution for general mineral abrasives
- **Silicon Carbide (SSiC)** – Lightweight ceramic reducing operator fatigue
- **SiAlON** – Advanced, high-toughness ceramic for demanding industrial environments
- **Boron Carbide (B_4C)** – Premium wear life for aggressive media and maximum production



NOZZLE SELECTION

Selecting the correct nozzle is fundamental to achieving optimum blasting performance. The Flo-Blast™ range provides engineered solutions for every application:

Venturi

Produces a wider blast pattern and significantly increases abrasive velocity through controlled acceleration. Available as Long Venturi models in Tungsten Carbide, Silicon Carbide, SiAlON and Boron Carbide options, and as XL high-performance versions manufactured in Boron Carbide.

Double Venturi

Incorporates precision induction ports to introduce atmospheric air into the downstream section, expanding the blast pattern while maintaining abrasive speed.

XL Performance

Features extended acceleration zones to deliver higher exit velocities and increased cleaning efficiency in high-output environments.

Water Induction

Combines abrasive and water within the mixing chamber to suppress airborne dust at source. Supplied with a hose connector and integrated water-control valve for accurate regulation. A compact Mini WIN version is available for use with ½" blast hoses where improved handling is required.

Angled

Designed for access to confined or obstructed areas, including behind flanges and within structural frames. Available in single, double and triple outlet formats, including a compact mini angled version for ½" blast hoses where reduced size and improved manoeuvrability are required.

Banana

Curved profile enables effective blasting around tubes, radii and difficult-to-reach surfaces where straight nozzles are impractical. Available in sizes #4 through #8.

Straight Bore

Delivers a concentrated, high-impact blast stream suited to detailed work and smaller surface areas requiring precision.

Internal Pipe-Cleaning

Designed for use with Spin-Blast and Hollo-Blast systems. Offered in multiple lengths and bore sizes with replaceable HB deflector tips for extended service life.

360°

Manufactured with 2" UNC thread for direct connection to standard blast equipment, providing uniform circumferential blasting within pipe entries.

Fan-Blast

Produces a controlled, flat rectangular spray pattern for wide surface coverage. Designed for beams, frames and structural profiles, ensuring consistent abrasive distribution while reducing over-concentration. Manufactured from high-grade Boron Carbide for exceptional wear resistance and extended service life.



PERFORMANCE & PRODUCTIVITY

In abrasive blasting operations, nozzle performance governs output rate, abrasive consumption and lifecycle cost. Even minor variations in bore geometry, liner material or internal finish can significantly influence particle velocity and wear characteristics.

Every Flo-Blast™ nozzle is engineered to deliver efficient energy transfer, stable airflow and predictable blast characteristics under sustained operating pressures. Precision manufacturing standards ensure consistent performance across a broad range of abrasive types.

Correct material selection — from Tungsten Carbide and Silicon Carbide to SiAlON and Boron Carbide — allows service life to be aligned with duty cycle and abrasive type, optimising cost per operating hour.

The result is measurable: higher cleaning efficiency, reduced downtime and controlled operating cost.

VENTURI NOZZLES

Tungsten Carbide Venturi Nozzles with Aluminium Jacket 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724000	FBC 32-3/50	4.8mm	140mm	32mm
724001	FBC 32-4/50	6.35mm	140mm	32mm
724002	FBC 32-5/50	8.0mm	150mm	32mm
724003	FBC 32-6/50	9.5mm	175mm	32mm
724004	FBC 32-7/50	11.0mm	205mm	32mm
724005	FBC 32-8/50	12.5mm	235mm	32mm
724006	FBC 32-10/50	16.0mm	235mm	32mm
724007	FBC 32-12/50	19.0mm	235mm	32mm

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724010	FBC 3/50	4.8mm	140mm	25mm
724011	FBC 4/50	6.35mm	140mm	25mm
724012	FBC 5/50	8.0mm	150mm	25mm
724013	FBC 6/50	9.5mm	175mm	25mm
724014	FBC 7/50	11.0mm	205mm	25mm
724015	FBC 8/50	12.5mm	235mm	25mm



Silicon Carbide Venturi Nozzles with Aluminium Jacket 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524000	FBSCA 32-3/50	4.8mm	140mm	32mm
524001	FBSCA 32-4/50	6.35mm	140mm	32mm
524002	FBSCA 32-5/50	8.0mm	150mm	32mm
524003	FBSCA 32-6/50	9.5mm	175mm	32mm
524004	FBSCA 32-7/50	11.0mm	205mm	32mm
524005	FBSCA 32-8/50	12.5mm	235mm	32mm

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524010	FBSCA 3/50	4.8mm	140mm	25mm
524011	FBSCA 4/50	6.35mm	140mm	25mm
524012	FBSCA 5/50	8.0mm	150mm	25mm
524013	FBSCA 6/50	9.5mm	175mm	25mm





Boron Carbide Venturi Nozzles with Aluminium Jacket 2" UNC Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724000-X	FBCB 32-3/50	4.8mm	140mm	32mm
724001-X	FBCB 32-4/50	6.35mm	140mm	32mm
724002-X	FBCB 32-5/50	8.0mm	150mm	32mm
724003-X	FBCB 32-6/50	9.5mm	175mm	32mm
724004-X	FBCB 32-7/50	11.0mm	205mm	32mm
724005-X	FBCB 32-8/50	12.5mm	235mm	32mm

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724010-X	FBCB 3/50	4.8mm	140mm	25mm
724011-X	FBCB 4/50	6.35mm	140mm	25mm
724012-X	FBCB 5/50	8.0mm	150mm	25mm
724013-X	FBCB 6/50	9.5mm	175mm	25mm



Tungsten Carbide Venturi Nozzles with Acetal Jacket 2" UNC Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
754000	FBN 32-3/50	4.8mm	140mm	32mm
754001	FBN 32-4/50	6.35mm	140mm	32mm
754002	FBN 32-5/50	8.0mm	150mm	32mm
754003	FBN 32-6/50	9.5mm	175mm	32mm
754004	FBN 32-7/50	11.0mm	205mm	32mm
754005	FBN 32-8/50	12.5mm	235mm	32mm
754006	FBN 32-10/50	16.0mm	235mm	32mm
754007	FBN 32-12/50	19.0mm	235mm	32mm

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
754010	FBN 3/50	4.8mm	140mm	25mm
754011	FBN 4/50	6.35mm	140mm	25mm
754012	FBN 5/50	8.0mm	150mm	25mm
754013	FBN 6/50	9.5mm	175mm	25mm
754014	FBN 7/50	11.0mm	205mm	25mm
754015	FBN 8/50	12.5mm	235mm	25mm





Silicon Carbide Venturi Nozzles with Acetal Jacket 2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
755001	FBSC 3/50	4.8mm	115mm	25mm
755002	FBSC 4/50	6.35mm	140mm	25mm
755003	FBSC 5/50	8.0mm	150mm	25mm
755004	FBSC 6/50	9.5mm	175mm	25mm



PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
755008	FBSC 32-3/50	4.8mm	140mm	32mm
755009	FBSC 32-4/50	6.35mm	140mm	32mm
755010	FBSC 32-5/50	8.0mm	150mm	32mm
755011	FBSC 32-6/50	9.5mm	175mm	32mm
755012	FBSC 32-7/50	11.0mm	205mm	32mm
755013	FBSC 32-8/50	12.5mm	235mm	32mm



Boron Carbide Venturi Nozzles with Acetal Jacket 2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
235001	FBBN 32-4/50	6.35mm	140mm	32mm
235002	FBBN 32-5/50	8.0mm	150mm	32mm
235003	FBBN 32-6/50	9.5mm	175mm	32mm
235004	FBBN 32-7/50	11.0mm	205mm	32mm
235005	FBBN 32-8/50	12.5mm	235mm	32mm





Tungsten Carbide Venturi Nozzles with Aluminium Jacket and Duragrip Sleeve 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724184	FBDS 32-3/50	4.8mm	140mm	32mm
724185	FBDS 32-4/50	6.35mm	140mm	32mm
724186	FBDS 32-5/50	8.0mm	150mm	32mm
724187	FBDS 32-6/50	9.5mm	175mm	32mm
724188	FBDS 32-7/50	11.0mm	205mm	32mm
724189	FBDS 32-8/50	12.5mm	235mm	32mm
724190	FBDS 32-10/50	16.0mm	235mm	32mm
724191	FBDS 32-12/50	19.0mm	235mm	32mm





Silicon Carbide Venturi Nozzles with Aluminium Jacket and Duragrip Sleeve 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524184	FBDSS 32-3/50	4.8mm	140mm	32mm
524185	FBDSS 32-4/50	6.35mm	140mm	32mm
524186	FBDSS 32-5/50	8.0mm	150mm	32mm
524187	FBDSS 32-6/50	9.5mm	175mm	32mm
524188	FBDSS 32-7/50	11.0mm	205mm	32mm
524189	FBDSS 32-8/50	12.5mm	235mm	32mm



Boron Carbide Venturi Nozzles with Aluminium Jacket and Duragrip Sleeve 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724184-X	FBDSB 32-3/50	4.8mm	140mm	32mm
724185-X	FBDSB 32-4/50	6.35mm	140mm	32mm
724186-X	FBDSB 32-5/50	8.0mm	150mm	32mm
724187-X	FBDSB 32-6/50	9.5mm	175mm	32mm
724188-X	FBDSB 32-7/50	11.0mm	205mm	32mm
724189-X	FBDSB 32-8/50	12.5mm	235mm	32mm



Boron Carbide Venturi Nozzles with Aluminium Hi-Tuf Jacket 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
234000	FBBC 32-3/50	4.8mm	140mm	32mm
234001	FBBC 32-4/50	6.35mm	140mm	32mm
234002	FBBC 32-5/50	8.0mm	150mm	32mm
234003	FBBC 32-6/50	9.5mm	175mm	32mm
234004	FBBC 32-7/50	11.0mm	205mm	32mm
234005	FBBC 32-8/50	12.5mm	235mm	32mm





Tungsten Carbide Venturi Nozzles with Rubber Jacket 2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
424001	TCR 32-4/50	6.35mm	152mm	32mm
424002	TCR 32-5/50	8.0mm	162mm	32mm
424003	TCR 32-6/50	9.5mm	188mm	32mm
424004	TCR 32-7/50	11.0mm	217mm	32mm
424005	TCR 32-8/50	12.5mm	245mm	32mm







Sialon Venturi Nozzle with Acetal Jacket
2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
784001	FBZ 32-4/50	6.35mm	140mm	32mm
784002	FBZ 32-5/50	8.0mm	150mm	32mm
784003	FBZ 32-6/50	9.5mm	175mm	32mm
784004	FBZ 32-7/50	11.0mm	205mm	32mm
784005	FBZ 32-8/50	12.5mm	235mm	32mm





ANGLED NOZZLES

Tungsten Carbide 45° Angled Nozzles with Aluminium Jacket
2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724090	FBA 2 × 1/50	1 × 3.2mm	88mm	25mm
724091	FBA 2 × 2/50	2 × 3.2mm	88mm	25mm
724092	FBA 2 × 3/50	3 × 3.2mm	88mm	25mm
724093	FBA 3 × 1/50	1 × 4.8mm	88mm	25mm
724094	FBA 3 × 2/50	2 × 4.8mm	88mm	25mm
724095	FBA 3 × 3/50	3 × 4.8mm	88mm	25mm
724096	FBA 4 × 1/50	1 × 6.35mm	88mm	25mm
724097	FBA 4 × 2/50	2 × 6.35mm	88mm	25mm
724098	FBA 4 × 3/50	3 × 6.35mm	88mm	25mm
724099	FBA 5 × 1/50	1 × 8.0mm	88mm	25mm
724100	FBA 5 × 2/50	2 × 8.0mm	88mm	25mm
724101	FBA 5 × 3/50	3 × 8.0mm	88mm	25mm
724102	FBA 6 × 1/50	1 × 9.5mm	88mm	25mm
724103	FBA 6 × 2/50	2 × 9.5mm	88mm	25mm
724104	FBA 6 × 3/50	3 × 9.5mm	88mm	25mm



Silicon Carbide 45° Angled Nozzles with Aluminium jacket 2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524096	FBAS 4 x 1/50	1 x 6.35mm	88mm	25mm
524097	FBAS 4 x 2/50	2 x 6.35mm	88mm	25mm
524098	FBAS 4 x 3/50	3 x 6.35mm	88mm	25mm
524099	FBAS 5 x 1/50	1 x 8.0mm	88mm	25mm
524100	FBAS 5 x 2/50	2 x 8.0mm	88mm	25mm
524101	FBAS 5 x 3/50	3 x 8.0mm	88mm	25mm
524102	FBAS 6 x 1/50	1 x 9.5mm	88mm	25mm
524103	FBAS 6 x 2/50	2 x 9.5mm	88mm	25mm
524104	FBAS 6 x 3/50	3 x 9.5mm	88mm	25mm



Boron Carbide 45° Angled Nozzles with Aluminium Jacket 2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724096-X	FBAB 4 x 1/50	1 x 6.35mm	88mm	25mm
724097-X	FBAB 4 x 2/50	2 x 6.35mm	88mm	25mm
724098-X	FBAB 4 x 3/50	3 x 6.35mm	88mm	25mm
724099-X	FBAB 5 x 1/50	1 x 8.0mm	88mm	25mm
724100-X	FBAB 5 x 2/50	2 x 8.0mm	88mm	25mm
724101-X	FBAB 5 x 3/50	3 x 8.0mm	88mm	25mm
724102-X	FBAB 6 x 1/50	1 x 9.5mm	88mm	25mm
724103-X	FBAB 6 x 2/50	2 x 9.5mm	88mm	25mm
724104-X	FBAB 6 x 3/50	3 x 9.5mm	88mm	25mm



Tungsten Carbide 90° Angled Nozzles with Aluminium Jacket
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724302	FBA 6 x 1/50	1 x 9.5mm	88mm	25mm



Tungsten Carbide 45° MINI Angled Nozzles with Aluminium Jacket
NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
534146	FBMA 1 x 4	1 x 6.35mm	54mm	13mm
534147	FBMA 1 x 5	1 x 8.0mm	54mm	13mm
534148	FBMA 1 x 6	1 x 9.5mm	54mm	13mm



STRAIGHT BORE NOZZLES

Tungsten Carbide Straight Bore Nozzles with Aluminium Jacket
UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724130	FBSB 2	3.2mm	45mm	13mm
724131	FBSB 3	4.8mm	45mm	13mm
724132	FBSB 4	6.35mm	45mm	13mm
724133	FBSB 5	8.0mm	45mm	13mm
724134	FBSB 6	9.5mm	45mm	13mm
724136	FBSB 7	11.0mm	45mm	13mm
724135	FBSB 8	12.5mm	45mm	13mm





Tungsten Carbide Straight Bore Nozzles with Aluminium Jacket
NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724140	FBSBF 2	3.2mm	45mm	13mm
724141	FBSBF 3	4.8mm	45mm	13mm
724142	FBSBF 4	6.35mm	45mm	13mm
724143	FBSBF 5	8.0mm	45mm	13mm
724144	FBSBF 6	9.5mm	45mm	13mm
724146	FBSBF 7	11.0mm	45mm	13mm
724145	FBSBF 8	12.5mm	45mm	13mm





Silicon Carbide Straight Bore Nozzles with Aluminium Jacket
UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524130	FBSBS 2	3.2mm	45mm	13mm
524131	FBSBS 3	4.8mm	45mm	13mm
524132	FBSBS 4	6.35mm	45mm	13mm
524133	FBSBS 5	8.0mm	45mm	13mm
524134	FBSBS 6	9.5mm	45mm	13mm
524136	FBSBS 7	11.0mm	45mm	13mm
524135	FBSBS 8	12.5mm	45mm	13mm



NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524140	FBSBFS 2	3.2mm	45mm	13mm
524141	FBSBFS 3	4.8mm	45mm	13mm
524142	FBSBFS 4	6.35mm	45mm	13mm
524143	FBSBFS 5	8.0mm	45mm	13mm
524144	FBSBFS 6	9.5mm	45mm	13mm
524146	FBSBFS 7	11.0mm	45mm	13mm
524145	FBSBFS 8	12.5mm	45mm	13mm



Boron Straight Bore Nozzles with Aluminium Jacket UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724130-X	FBSBB 2	3.2mm	45mm	13mm
724131-X	FBSBB 3	4.8mm	45mm	13mm
724132-X	FBSBB 4	6.35mm	45mm	13mm
724133-X	FBSBB 5	8.0mm	45mm	13mm
724134-X	FBSBB 6	9.5mm	45mm	13mm
724136-X	FBSBB 7	11.0mm	45mm	13mm
724135-X	FBSBB 8	12.5mm	45mm	13mm



NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724140-X	FBSBFB 2	3.2mm	45mm	13mm
724141-X	FBSBFB 3	4.8mm	45mm	13mm
724142-X	FBSBFB 4	6.35mm	45mm	13mm
724143-X	FBSBFB 5	8.0mm	45mm	13mm
724144-X	FBSBFB 6	9.5mm	45mm	13mm
724146-X	FBSBFB 7	11.0mm	45mm	13mm
724145-X	FBSBFB 8	12.5mm	45mm	13mm



Tungsten Carbide Straight Bore Nozzles with Steel Jacket NPSM Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
726140	FBSBFS 2	3.2mm	45mm	13mm
726141	FBSBFS 3	4.8mm	45mm	13mm
726142	FBSBFS 4	6.35mm	45mm	13mm
726143	FBSBFS 5	8.0mm	45mm	13mm
726144	FBSBFS 6	9.5mm	45mm	13mm



Tungsten Carbide Flanged Nozzle

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
G1052-16	FBGN-6	9.5mm	86mm	19mm



Boron Carbide Flanged Nozzle

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
G1052-16-X	FBBGN-6	9.5mm	86mm	19mm



Tungsten Carbide Short Straight Bore Nozzle
NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524050	FBSSB-8	12.5mm	50mm	25mm



Boron Carbide Fan-Blast Nozzle
2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724325	FB-325	3×25mm	95mm	25mm



SHORT VENTURI NOZZLES

Tungsten Carbide Short Venturi Liner with Aluminium Jacket
2″ UNC Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724041	FBSV 32-4/50	6.35mm	85mm	32mm
724042	FBSV 32-5/50	8.0mm	85mm	32mm
724043	FBSV 32-6/50	9.5mm	85mm	32mm
724044	FBSV 32-7/50	11.0mm	85mm	32mm
724045	FBSV 32-8/50	12.5mm	85mm	32mm
724046	FBSV 32-10/50	16.0mm	85mm	32mm



PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724050	FBSV 3/50	4.8mm	85mm	25mm
724051	FBSV 4/50	6.35mm	85mm	25mm
724052	FBSV 5/50	8.0mm	85mm	25mm
724053	FBSV 6/50	9.5mm	85mm	25mm
724054	FBSV 7/50	11.0mm	85mm	25mm
724055	FBSV 8/50	12.5mm	85mm	25mm



Silicon Carbide Short Venturi Nozzles
2″ UNC Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524041	FBSVS 32-4/50	6.35mm	85mm	32mm
524042	FBSVS 32-5/50	8.0mm	85mm	32mm
524043	FBSVS 32-6/50	9.5mm	85mm	32mm
524044	FBSVS 32-7/50	11.0mm	85mm	32mm
524045	FBSVS 32-8/50	12.5mm	85mm	32mm



PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524050	FBSVS 3/50	4.8mm	85mm	25mm
524051	FBSVS 4/50	6.35mm	85mm	25mm
524052	FBSVS 5/50	8.0mm	85mm	25mm
524053	FBSVS 6/50	9.5mm	85mm	25mm
524054	FBSVS 7/50	11.0mm	85mm	25mm
524055	FBSVS 8/50	12.5mm	85mm	25mm



Boron Carbide Short Venturi Nozzles
2″ UNC Thread

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724041-X	FBSVB 32-4/50	6.35mm	85mm	32mm
724042-X	FBSVB 32-5/50	8.0mm	85mm	32mm
724043-X	FBSVB 32-6/50	9.5mm	85mm	32mm
724044-X	FBSVB 32-7/50	11.0mm	85mm	32mm
724045-X	FBSVB 32-8/50	12.5mm	85mm	32mm

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724050-X	FBSVB 3/50	4.8mm	85mm	25mm
724051-X	FBSVB 4/50	6.35mm	85mm	25mm
724052-X	FBSVB 5/50	8.0mm	85mm	25mm
724053-X	FBSVB 6/50	9.5mm	85mm	25mm
724054-X	FBSVB 7/50	11.0mm	85mm	25mm
724055-X	FBSVB 8/50	12.5mm	85mm	25mm



XL PERFORMANCE NOZZLES

Boron Carbide Venturi Liner with Aluminium Jacket
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
290001	XL-FBBC 32-4/50	6.35mm	350mm	32mm
290002	XL-FBBC 32-5/50	8.0mm	350mm	32mm
290003	XL-FBBC 32-6/50	9.5mm	350mm	32mm
290004	XL-FBBC 32-7/50	11.0mm	350mm	32mm
290005	XL-FBBC 32-8/50	12.5mm	350mm	32mm
290006	XL-FBBC 32-10/50	16.0mm	350mm	32mm



DOUBLE VENTURI NOZZLES



Tungsten Carbide Double Venturi Nozzle
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724200	FBDV 25-4/50	6.35mm	146mm	25mm
724201	FBDV 25-5/50	8.0mm	162mm	25mm
724202	FBDV 25-6/50	9.5mm	176mm	25mm
724203	FBDV 25-7/50	11.0mm	216mm	25mm
724204	FBDV 25-8/50	12.5mm	235mm	25mm



Boron Carbide Double Venturi Nozzle
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724200-X	FBDVB 25-4/50	6.35mm	146mm	25mm
724201-X	FBDVB 25-5/50	8.0mm	162mm	25mm
724202-X	FBDVB 25-6/50	9.5mm	176mm	25mm
724203-X	FBDVB 25-7/50	11.0mm	216mm	25mm
724204-X	FBDVB 25-8/50	12.5mm	235mm	25mm



STICK UP NOZZLES

Tungsten Carbide Liner with Aluminium Jacket "Stick-Up" Nozzles

For 1" (25mm) ID Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724179	FBSU 4/25	6.35mm	110mm	20mm
724180	FBSU 5/25	8.0mm	110mm	20mm
724181	FBSU 6/25	9.5mm	110mm	20mm



For 1 ¼" (32mm) ID Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724182	FBSU 5/32	8.0mm	115mm	24mm
724183	FBSU 6/32	9.5mm	115mm	24mm
724177	FBSU 7/32	11.0mm	115mm	24mm
724178	FBSU 8/32	12.5mm	115mm	24mm

Silicon Carbide Liner with Aluminium Jacket "Stick-Up" Nozzles

For 1" (25mm) Id Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524179	FBSUS 4/25	6.35mm	110mm	20mm
524180	FBSUS 5/25	8.0mm	110mm	20mm
524181	FBSUS 6/25	9.5mm	110mm	20mm



For 1 ¼" (32mm) ID Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
524182	FBSUS 5/32	8.0mm	115mm	24mm
524183	FBSUS 6/32	9.5mm	115mm	24mm
524177	FBSUS 7/32	11.0mm	115mm	24mm
524178	FBSUS 8/32	12.5mm	115mm	24mm



Boron Carbide Liner with Aluminium Jacket "Stick-Up" Nozzles

For 1" (25mm) ID Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724179-X	FBSUB 4/25	6.35mm	110mm	20mm
724180-X	FBSUB 5/25	8.0mm	110mm	20mm
724181-X	FBSUB 6/25	9.5mm	110mm	20mm



For 1 ¼" (32mm) ID Blast Hoses

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724182-X	FBSUB 5/32	8.0mm	115mm	24mm
724183-X	FBSUB 6/32	9.5mm	115mm	24mm
724177-X	FBSUB 7/32	11.0mm	115mm	24mm
724178-X	FBSUB 8/32	12.5mm	115mm	24mm

WATER INDUCTION NOZZLES

Tungsten Carbide Venturi Liner with Aluminium Jacket and Water Induction System
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
728005	FBWJ 3/50	4.8mm	120mm	25mm
728006	FBWJ 4/50	6.35mm	150mm	25mm
728007	FBWJ 5/50	8.0mm	160mm	25mm
728008	FBWJ 6/50	9.5mm	170mm	25mm
728009	FBWJ 7/50	11.0mm	210mm	25mm
728010	FBWJ 8/50	12.5mm	235mm	25mm

Hose Attachment

528000



Silicon Carbide Venturi Liner with Aluminium Jacket and Water Induction System
2" UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
528005	FBWJS 3/50	4.8mm	120mm	25mm
528006	FBWJS 4/50	6.35mm	150mm	25mm
528007	FBWJS 5/50	8.0mm	160mm	25mm
528008	FBWJS 6/50	9.5mm	170mm	25mm
528009	FBWJS 7/50	11.0mm	210mm	25mm
528010	FBWJS 8/50	12.5mm	235mm	25mm



MINI WATER INDUCTION NOZZLES

Tungsten Carbide Venturi Liner with Aluminium Jacket and Water Induction System

NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
324000	FBMWJ 2	3.2mm	90mm	13mm
324001	FBMWJ 3	4.8mm	90mm	13mm
324002	FBMWJ 4	6.35mm	90mm	13mm
324003	FBMWJ 5	8.0mm	90mm	13mm

Hose Attachment

528000





INTERNAL PIPE BLAST NOZZLES

Spin-Blast Nozzles



Tungsten Carbide Liner with Aluminium Jacket Spin- Blast Nozzles

NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724170	FBSB 13	6.35mm	55mm	13mm
724171	FBSB 14	8.0mm	55mm	13mm
724172	FBSB 15	8.0mm	85mm	13mm
724173	FBSB 16	9.5mm	55mm	13mm
724174	FBSB 17	9.5mm	108mm	13mm



Boron Carbide Liner with Aluminium Jacket Spin- Blast Nozzles
NPSM Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724170-X	FBSBB 13	6.35mm	55mm	13mm
724171-X	FBSBB 14	8.0mm	55mm	13mm
724172-X	FBSBB 15	8.0mm	85mm	13mm
724173-X	FBSBB 16	9.5mm	55mm	13mm
724174-X	FBSBB 17	9.5mm	108mm	13mm



Hollo-Blast Nozzles

Tungsten Carbide Liner with Aluminium Jacket Hollo-Blast Nozzles

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
724195	FBHB 8	12.5mm	82mm	30mm
724196	FBHB 10	16.0mm	97mm	30mm
G1052-07	FBHB-TIP	4.3mm	23.5mm	



360° Nozzle

Tungsten Carbide Liner with Aluminium Jacket 360° Blast Nozzle
2" UNC Threads

PART NUMBER	DESCRIPTION	LENGTH	ENTRY DIAMETER
360000	FB-360	75mm	32mm
360007	FB-Tip-360	42mm	6mm





BANANA NOZZLES

Boron Carbide 40° Banana Blast Nozzle
2″ UNC Threads

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH	ENTRY DIAMETER
234104	BN-4	6.35mm	115mm	25mm
234105	BN-5	8.0mm	115mm	25mm
234106	BN-6	9.5mm	115mm	25mm
234107	BN-7	11.0mm	115mm	25mm
234108	BN-8	12.5mm	115mm	25mm



NOZZLE COMPONENTS & SPARES

Tungsten Carbide

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH
G1052-04	THROAT SLEEVE	4mm	64mm
G1052-05	THROAT SLEEVE	4mm	57mm
G1052-06	HEMISPHERE		9.5mm
G1052-07	DEFLECTION TIP	4.3mm	23.5mm
G1052-08	ANGLED LINER	8mm	25mm
G1052-09	STEM SUPPORT		12mm
G1052-10	ANGLED LINER	6mm	20mm
G1052-18	CARBIDE WASHER		



Throat Sleeve



Stem Support



Hemisphere



Angled Liner



Carbide Washer



Deflection Tip



Carbide Disc

Boron Carbide Straight Bore Inserts

PART NUMBER	DESCRIPTION	BORE SIZE	LENGTH
MBIZ 060	BCI-4	6.0mm	36mm
MBIZ 080	BCI-5	8.0mm	36mm
MBIZ 090	BCI-6	9.5mm	36mm
MBIZ 110	BCI-7	11.0mm	36mm
MBIZ 125	BCI-8	12.5mm	36mm



Rubber Gaskets

NG32 – USED WITH 32mm ENTRY NOZZLES



NG0 – USED WITH 13mm ENTRY NOZZLES



NG25 – USED WITH 25mm ENTRY NOZZLES



NG MWIN – MINI WATER JET GASKET



NOZZLE & AIR PRESSURE REQUIREMENTS CHART

Nozzle Bore Size	Air, Power & Abrasive Requirements	Nozzle Pressure PSI (BAR) 50 (3.45)	60 (4.14)	70 (4.83)	80 (5.52)	90 (6.21)	100 (6.89)	125 (8.62)
1/8 inch (3.2mm)	Air - cu ft/min (cu m/min)	12 (0.34)	13 (0.37)	15 (0.42)	18 (0.51)	19 (0.54)	21 (0.59)	26 (0.74)
	Horsepower - hp (kW)	1.75 (1.30)	2 (1.49)	2.5 (1.86)	3 (2.24)	3.5 (2.61)	4 (2.98)	6 (4.47)
	Abrasive - lb/hr (kg/hr)	70 (32)	80 (36)	90 (41)	100 (45)	110 (50)	120 (54)	135 (61)
3/16 inch (4.8mm)	Air - cu ft/min (cu m/min)	25 (0.71)	30 (0.85)	35 (0.99)	40 (1.13)	43 (1.22)	45 (1.27)	60 (1.70)
	Horsepower - hp (kW)	5 (3.73)	8 (5.97)	9 (6.71)	9.5 (7.08)	10 (7.46)	10.5 (7.83)	16 (11.93)
	Abrasive - lb/hr (kg/hr)	150 (68)	170 (77)	200 (91)	215 (98)	240 (109)	260 (118)	320 (145)
1/4 inch (6.35mm)	Air - cu ft/min (cu m/min)	50 (1.42)	55 (1.56)	60 (1.70)	70 (1.98)	75 (2.12)	80 (2.27)	95 (2.69)
	Horsepower - hp (kW)	10 (7.46)	12 (8.95)	13 (9.69)	16 (11.93)	17 (12.68)	18 (13.42)	25 (18.64)
	Abrasive - lb/hr (kg/hr)	270 (122)	300 (136)	350 (159)	400 (181)	450 (204)	500 (227)	675 (306)
5/16 inch (8mm)	Air - cu ft/min (cu m/min)	80 (2.27)	90 (2.55)	100 (2.83)	115 (3.26)	125 (3.54)	140 (3.96)	190 (5.38)
	Horsepower - hp (kW)	17 (12.68)	20 (14.91)	25 (18.64)	27 (20.13)	28 (20.88)	30 (22.37)	36 (26.85)
	Abrasive - lb/hr (kg/hr)	470 (213)	530 (240)	600 (272)	675 (306)	750 (340)	825 (374)	1000 (454)
3/8 inch (9.5mm)	Air - cu ft/min (cu m/min)	110 (3.12)	125 (3.54)	145 (4.11)	160 (4.53)	175 (4.96)	200 (5.66)	275 (7.79)
	Horsepower - hp (kW)	25 (18.64)	29 (21.63)	32 (23.86)	35 (26.10)	40 (29.83)	45 (33.56)	57 (42.50)
	Abrasive - lb/hr (kg/hr)	675 (306)	775 (352)	875 (397)	975 (442)	1060 (481)	1100 (499)	1350 (612)
7/16 inch (11mm)	Air - cu ft/min (cu m/min)	150 (4.25)	170 (4.81)	200 (5.66)	215 (6.09)	240 (6.80)	255 (7.22)	315 (8.92)
	Horsepower - hp (kW)	35 (26.10)	40 (29.83)	45 (33.56)	50 (37.28)	55 (41.01)	60 (44.74)	70 (52.20)
	Abrasive - lb/hr (kg/hr)	900 (408)	1000 (454)	1200 (544)	1300 (590)	1400 (635)	1550 (703)	1800 (816)
1/2 inch (12.5mm)	Air - cu ft/min (cu m/min)	200 (5.66)	225 (6.37)	250 (7.08)	275 (7.79)	300 (8.50)	340 (9.63)	430 (12.18)
	Horsepower - hp (kW)	45 (33.56)	50 (37.28)	55 (41.01)	63 (46.98)	70 (52.20)	75 (55.93)	95 (70.84)
	Abrasive - lb/hr (kg/hr)	1200 (544)	1350 (612)	1500 (680)	1700 (771)	1850 (839)	2025 (919)	2525 (1145)
5/8 inch (16mm)	Air - cu ft/min (cu m/min)	300 (8.5)	350 (9.91)	400 (11.33)	450 (12.74)	500 (14.16)	550 (15.58)	700 (19.82)
	Horsepower - hp (kW)	70 (52.20)	80 (59.66)	90 (67.11)	100 (74.57)	110 (82.03)	120 (89.48)	150 (111.85)
	Abrasive - lb/hr (kg/hr)	1900 (862)	2200 (998)	2400 (1089)	2700 (1225)	3000 (1361)	3300 (1497)	4000 (1814)
3/4 inch (19mm)	Air - cu ft/min (cu m/min)	430 (12.18)	500 (14.16)	575 (16.28)	650 (18.41)	700 (19.82)	800 (22.66)	1100 (31.15)
	Horsepower - hp (kW)	100 (74.57)	115 (85.76)	130 (96.94)	145 (108.13)	160 (119.31)	175 (130.50)	215 (160.33)
	Abrasive - lb/hr (kg/hr)	2700 (1225)	3100 (1406)	3500 (1588)	3900 (1769)	4300 (1950)	4700 (2132)	5700 (2586)



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