



Virginia Sheriffs' Association
Heavy Equipment Cooperative Purchasing Program
Bid 24-05-0713

Group: Sewer Cleaners
Make: USB-USA
Model: Catalog Discount
Model Number: Nozzles
Discount: 6%

Item Number	Description	MSRP	Discounted VSA Price
USB1052	3D CLEANING NOZZLE (1 IN, 8 IN - 24 IN)	\$1,356.71	\$1,275.30
USB1055	3D CLEANING NOZZLE (1 IN, 8 IN - 24 IN)	\$1,316.04	\$1,237.08
USB1060	3D CLEANING NOZZLE (1 IN, 6 IN - 15 IN)	\$1,187.89	\$1,116.62
USB1063	3D CLEANING NOZZLE (3/4 IN, 6 IN - 10 IN)	\$1,141.06	\$1,072.60
USB1070	3D CLEANING NOZZLE (3/4 IN, 6 IN - 10 IN)	\$937.74	\$881.48
USB1062	3D CLEANING NOZZLE (1/2 IN, 4 IN - 8 IN)	\$704.85	\$662.56
USB1071	3D CLEANING NOZZLE (1/2 IN, 4 IN - 8 IN)	\$570.53	\$536.30
USB1075	3D CLEANING NOZZLE (1/2 IN, 4 IN - 8 IN)	\$496.60	\$466.80
USB1081	EGG NOZZLE 3D (1 IN, 6 IN - 12 IN)	\$1,079.45	\$1,014.68
USB1082	EGG NOZZLE 3D (3/4 IN, 6 IN - 10 IN)	\$677.74	\$637.07
USB1083	EGG NOZZLE 3D (1/2 IN, 4 IN - 8 IN)	\$496.60	\$466.80
USB1084	EGG NOZZLE 3D (3/8 IN, 4 IN - 6 IN)	\$342.57	\$322.01
USB1085	EGG NOZZLE 3D (1/4 IN, 2 IN - 4 IN)	\$235.36	\$221.24
USB1086	EGG NOZZLE (1/8 IN, 2 IN - 4 IN)	\$115.83	\$108.88
USB1087	EGG NOZZLE (1/8 IN, 2 IN - 4 IN)	\$115.83	\$108.88
USB1112	RADI 70° 3D NOZZLE (1 IN, 10 IN - 32 IN)	\$1,738.70	\$1,634.38
USB1114	RADI 70° 3D NOZZLE (1 IN, 6 IN - 24 IN)	\$1,493.49	\$1,403.88
USB1115	RADI 70° 3D NOZZLE (3/4 IN, 6 IN - 12 IN)	\$1,290.17	\$1,212.76
USB1117	RADI 70° 3D NOZZLE (1/2 IN, 4 IN - 8 IN)	\$672.81	\$632.44
USB1120	SMALL ROCKET NOZZLE 3D (1 IN, 6 IN - 15 IN)	\$1,187.89	\$1,116.62
USB1120AL	ALUMINUM ROCKET NOZZLE 3D (1 IN, 6 IN - 15 IN)	\$609.96	\$573.37
USB1121	SMALL ROCKET NOZZLE 3D (1 IN , 6 IN - 24 IN)	\$1,316.04	\$1,237.08

Item Number	Description	MSRP	Discounted VSA Price
USB112075AL	ALUMINUM ROCKET NOZZLE 3D (3/4 IN, 6 IN - 12 IN)	\$609.96	\$573.37
USB1126	SMALL ROCKET NOZZLE 3D (3/4 IN, 6 IN - 12 IN)	\$937.74	\$881.48
USB1128	SMALL ROCKET NOZZLE 3D (1/2 IN, 4 IN - 8 IN)	\$496.60	\$466.80
USB1136	3D EXTREME NOZZLE (1 IN, 6 IN - 15 IN)	\$1,094.24	\$1,028.58
USB113675	3D EXTREME NOZZLE (3/4 IN, 6 IN - 15 IN)	\$1,094.24	\$1,028.58
USB1140	DIGGER NOZZLE (1/2 IN, 2 IN - 8 IN)	\$319.15	\$300.00
USB1142	DIGGER NOZZLE (1/4 IN, UP TO 3 IN)	\$221.81	\$208.50
USB1144	NOZZLE HOLDER (,)	\$319.15	\$300.00
USB1145	DIGGER NOZZLE W/ HOLDER	\$611.20	\$574.52
USB1152	LARGE ROCKET NOZZLE 3D (1 1/2 IN, 16 IN - 48 IN)	\$4,004.81	\$3,764.52
USB1154	LARGE ROCKET NOZZLE 3D (1 1/4 IN, 12 IN - 32 IN)	\$1,938.33	\$1,822.03
USB1156	LARGE ROCKET NOZZLE 3D (1 IN, 10 IN - 24 IN)	\$1,488.56	\$1,399.24
USB1157	LARGE ROCKET NOZZLE 3D (1 IN, 8 IN - 20 IN)	\$1,276.61	\$1,200.01
USB1158	LARGE ROCKET NOZZLE 3D (3/4 IN, 8 IN - 15 IN)	\$1,276.61	\$1,200.01
USB1172	FS NOZZLE 3D (1 IN, 6 IN - 15 IN)	\$1,208.84	\$1,136.31
USB1173	FS NOZZLE 3D (3/4 IN, 6 IN - 12 IN)	\$985.80	\$926.65
USB1174	FS NOZZLE 3D (1/2 IN, 4 IN - 8 IN)	\$597.64	\$561.78
USB1175	FS-NOZZLE (3/8 IN, 2 IN - 4 IN)	\$481.81	\$452.90
USB1176	FS-NOZZLE (1/4 IN, 2 IN - 4 IN)	\$442.38	\$415.84
USB1182	COMBINATOR 3D NOZZLE (1 1/4 IN, 15 IN - 48 IN)	\$1,938.33	\$1,822.03
USB1186	COMBINATOR 3D NOZZLE (1 IN, 10 IN - 32 IN)	\$1,488.56	\$1,399.24
USB1187	COMBINATOR 3D NOZZLE (1 IN, 8 IN - 20 IN)	\$1,276.61	\$1,200.01
USB1188	COMBINATOR 3D NOZZLE (3/4 IN, 8 IN - 20 IN)	\$1,276.61	\$1,200.01
USB1190	RADIAL-CLEAN 3D NOZZLE (1 1/4 IN, 10 IN - 20 IN)	\$2,852.66	\$2,681.50
USB1191	RADIAL-CLEAN 3D NOZZLE (1 1/2 IN, 12 IN - 24 IN)	\$6,656.61	\$6,257.22
USB1194	RADIAL-CLEAN 3D NOZZLE (1 IN, 8 IN - 15 IN)	\$1,755.96	\$1,650.60
USB1195	RADIAL-CLEAN 3D NOZZLE (3/4 IN, 6 IN - 12 IN)	\$1,351.78	\$1,270.67
USB1198	ANTIBLASTER 3D NOZZLE (1 IN, 6 IN - 12 IN)	\$1,208.84	\$1,136.31
USB119875	ANTIBLASTER 3D NOZZLE (3/4 IN, 6 IN - 10 IN)	\$1,208.84	\$1,136.31
USB1199	ANTIBLASTER PLUS 3D NOZZLE (1 IN, 6 IN - 12 IN)	\$1,476.24	\$1,387.66
USB1200	ANTIBLASTER PLUS 3D NOZZLE (1 IN, 8 IN - 15 IN)	\$1,640.12	\$1,541.72
USB1205	SUPER 12 NOZZLE (1/2 IN, 2 IN - 4 IN)	\$454.70	\$427.42
USB1210	TRI JET 3D NOZZLE (1 IN, 4 IN - 12 IN)	\$1,330.83	\$1,250.98
USB1213	TRI JET 3D NOZZLE (1 IN, 8 IN - 20 IN)	\$1,746.10	\$1,641.33
USB1213AL	ALUMINUM TRI JET 3D NOZZLE (1 IN, 8 IN - 20 IN)	\$1,746.10	\$1,641.33
USB1218	TRI JET 3D NOZZLE (1 IN, 10 IN - 32 IN)	\$1,901.36	\$1,787.28
USB1220	TRI JET 3D NOZZLE (1 1/4 IN, 12 IN - 40 IN)	\$2,215.59	\$2,082.65
USB1225	TRI JET 3D NOZZLE (1 1/2 IN, 16 IN - 48 IN)	\$4,116.95	\$3,869.93
USB1240	STEERING NOZZLE (1/2 IN, 3 IN - 8 IN)	\$319.15	\$300.00
USB1241	STANDARD W/ STEERING NOZZLE (1/2 IN, 3 IN - 8 IN)	\$581.62	\$546.72
USB1243	EGG W/ STEERING NOZZLE (1/2 IN, 3 IN - 8 IN)	\$883.52	\$830.51
USB1245	ROTO W/ STEERING NOZZLE (1/2 IN, 3 IN - 8 IN)	\$1,260.59	\$1,184.96
USB1246	ROCKER W/ STEERING NOZZLE (1/2 IN, 3 IN - 8 IN)	\$1,423.25	\$1,337.85
USB1251	STANDARD NOZZLE (1 1/4 IN, 8 IN - 12 IN)	\$474.42	\$445.95
USB1256	STANDARD NOZZLE (1 IN, 6 IN -12 IN)	\$348.73	\$327.80
USB1255	STANDARD NOZZLE BALL SHAPE (1 IN, 6 IN -12 IN)	\$388.16	\$364.87

Item Number	Description	MSRP	Discounted VSA Price
USB1257	STANDARD NOZZLE (3/4 IN, 6 IN - 8 IN)	\$243.99	\$229.35
USB1259	STANDARD NOZZLE (3/4 IN, 6 IN - 8 IN)	\$216.88	\$203.86
USB1260	STANDARD NOZZLE (1/2 IN, 2 IN - 6 IN)	\$162.66	\$152.90
USB1262	STANDARD NOZZLE BALL SHAPE (1/2 IN, 2 IN - 6 IN)	\$176.21	\$165.64
USB1268	STANDARD NOZZLE (3/8 IN, 2 IN - 4 IN)	\$133.08	\$125.10
USB1273	STANDARD NOZZLE W/ FRWD JET (1/4 IN, UP TO 4 IN)	\$129.39	\$121.62
USB1274	STANDARD NOZZLE W/ NO FRWD JET (1/4 IN, UP TO 4 IN)	\$129.39	\$121.62
USB1278	FD2 NOZZLE 3D (1 1/4 IN, 12 IN)	\$2,020.89	\$1,899.64
USB1279	FD2 NOZZLE 3D (1 IN, 12 IN)	\$2,020.89	\$1,899.64
USB1280	FD2 NOZZLE 3D (1 IN, 8 IN)	\$1,622.87	\$1,525.50
USB1282	FD2 NOZZLE 3D (3/4 IN, 6 IN)	\$1,154.62	\$1,085.34
USB1290	FD2 NOZZLE 3D (1/2 IN, 4 IN)	\$883.52	\$830.51
USB1308	FORWARD PUSH-ROTOR NOZZLE (1/2 IN, 4 IN - 8 IN)	\$1,128.74	\$1,061.02
USB1309	FORWARD PUSH-ROTOR NOZZLE (3/8 IN, UP TO 6 IN)	\$819.45	\$770.28
USB1310	FORWARD PUSH-ROTOR NOZZLE (1/4 IN, UP TO 6 IN)	\$819.45	\$770.28
USB1313	RADIAL CHISEL NOZZLE (1 IN, 8 IN - 20 IN)	\$1,677.09	\$1,576.47
USB1314	RADIAL CHISEL NOZZLE (3/4 IN, 6 IN - 12 IN)	\$1,127.51	\$1,059.86
USB1316	XXXL CHISEL NOZZLE (1 1/4 IN, 8 IN - 24 IN)	\$1,627.80	\$1,530.13
USB1317	XXL CHISEL NOZZLE (1 1/4 IN, 8 IN - 20 IN)	\$1,249.50	\$1,174.53
USB1318	XL CHISEL NOZZLE (1 IN, 8 IN- 20 IN)	\$1,152.15	\$1,083.02
USB1319	LARGE CHISEL NOZZLE (1 1/4 IN, 8 IN - 24 IN)	\$1,078.22	\$1,013.53
USB1320DP	LARGE CHISEL NOZZLE W/ DRILL POINT (1 IN, 8 IN- 20 IN)	\$556.98	\$523.56
USB1320	LARGE CHISEL NOZZLE (1 IN, 8 IN - 20 IN)	\$534.80	\$502.71
USB1323DP	MEDIUM CHISEL NOZZLE W/ DRILL POINT (3/4 IN, 8 IN - 15 IN)	\$483.04	\$454.06
USB1323	MEDIUM CHISEL NOZZLE (3/4 IN, 8 IN - 15 IN)	\$468.26	\$440.16
USB1326DP	SMALL CHISEL NOZZLE W/ DRILL POINT (1/2 IN, 6 IN - 12 IN)	\$317.92	\$298.85
USB1326	SMALL CHISEL NOZZLE (1/2 IN, 6 IN - 12 IN)	\$301.90	\$283.79
USB1328	XS CHISEL NOZZLE (3/8 IN, 4 IN - 8 IN)	\$230.43	\$216.60
USB1330	XXS CHISEL NOZZLE (1/4 IN, 2 IN - 4 IN)	\$210.71	\$198.07
USB1331	XXS CHISEL NOZZLE (1/4 IN, 2 IN - 4 IN)	\$197.16	\$185.33
USB1334	T-HAMMER NOZZLE (1 1/4 IN, 8 IN - 20 IN)	\$5,796.50	\$5,448.71
USB1335	T-HAMMER NOZZLE (1 IN, 6 IN - 15 IN)	\$5,434.22	\$5,108.17
USB1337	V-HAMMER NOZZLE (1 IN, 6 IN - 12 IN)	\$1,622.87	\$1,525.50
USB1338	V-HAMMER NOZZLE (3/4 IN, 6 IN - 10 IN)	\$1,312.35	\$1,233.61
USB1339	V-HAMMER NOZZLE (1/2 IN, 4 IN - 8 IN)	\$1,040.02	\$977.62
USB1340	V-HAMMER NOZZLE (3/8 IN, UP TO 4 IN)	\$711.01	\$668.35
USB1341	V-HAMMER NOZZLE (1/4 IN, UP TO 4 IN)	\$711.01	\$668.35
USB1345	ROTOR NOZZLE (1 1/4 IN, 10 IN - 20 IN)	\$2,513.79	\$2,362.96
USB1350	ROTOR NOZZLE (1 IN, 6 IN - 15 IN)	\$2,377.01	\$2,234.39
USB1351	ROTOR NOZZLE (1 IN, 6 IN - 12 IN)	\$1,338.22	\$1,257.93
USB1352	ROTOR NOZZLE (3/4 IN, 6 IN - 10 IN)	\$1,113.95	\$1,047.12
USB1357	ROTOR NOZZLE (1/2 IN, 4 IN - 8 IN)	\$873.67	\$821.25
USB1360	ROTOR NOZZLE (3/8 IN, 2 IN - 6 IN)	\$685.13	\$644.02
USB1362	ROTOR NOZZLE (1/4 IN, 2 IN - 6 IN)	\$685.13	\$644.02
USB1364	ROTOR NOZZLE (1/4 IN, UP TO 4 IN)	\$340.10	\$319.69

Item Number	Description	MSRP	Discounted VSA Price
USB1365	ROTOR NOZZLE (1/8 IN, UP TO 4 IN)	\$285.88	\$268.73
USB1377	FLOUNDER NOZZLE 3D (1 1/4 IN, 15 IN - 60 IN)	\$3,253.14	\$3,057.95
USB1378	FLOUNDER NOZZLE 3D (1 IN, 12 IN - 40 IN)	\$1,960.51	\$1,842.88
USB1380	FLOUNDER NOZZLE 3D (3/4 IN, 10 IN - 24 IN)	\$1,243.34	\$1,168.74
USB1381	FLOUNDER NOZZLE 3D (1/2 IN, 4 IN - 12 IN)	\$876.13	\$823.56
USB1382	FLOUNDER NOZZLE 3D (3/8 IN, 2 IN - 4 IN)	\$771.39	\$725.11
USB1974	ROTOR - WOLF NOZZLE (1/2 IN, 4 IN - 6 IN)	\$1,128.74	\$1,061.02
USB1975	ROTOR - WOLF NOZZLE (1/4 IN, 1 IN - 2 IN)	\$771.39	\$725.11
USB1976	ROTOR - WOLF NOZZLE (3/8 IN, 2 IN - 4 IN)	\$771.39	\$725.11
USB1977	ROTOR - WOLF NOZZLE (1/4 IN, 1 IN - 2 IN)	\$712.24	\$669.51
USB1978	MINI WOLF NOZZLE (1/2 IN, 2 IN - 4 IN)	\$1,219.93	\$1,146.73
USB1979	MINI WOLF NOZZLE (1/2 IN, 2 IN - 4 IN)	\$1,219.93	\$1,146.73
USB1980	PIPE WOLF NOZZLE (1/2 IN, 4 IN - 8 IN)	\$1,336.99	\$1,256.77
USB1982	PIPE WOLF NOZZLE (3/4 IN, 1 IN, 6 IN - 15 IN)	\$2,241.46	\$2,106.97
USB1984	PIPE WOLF NOZZLE (1 1/4 IN, 8 IN - 24 IN)	\$3,858.17	\$3,626.68
USB2999	SUPER CYCLE NOZZLE 3D (1 1/4 IN, 10 IN - 40 IN)	\$2,158.90	\$2,029.37
USB3000	SUPER CYCLE NOZZLE 3D (1 IN, 10 IN - 40 IN)	\$2,158.90	\$2,029.37
USB3001	CYCLE NOZZLE 3D (3/4 IN, 8 IN - 15 IN)	\$1,762.12	\$1,656.39
USB3002	CYCLE NOZZLE 3D (1 IN, 8 IN - 15 IN)	\$1,762.12	\$1,656.39
USB3003	CYCLE NOZZLE 3D (1 1/4 IN, 8 IN - 15 IN)	\$1,762.12	\$1,656.39
USB3006	6 JET STORM SURGE NOZZLE (3/4 IN, 1 IN, 12 IN - 15 IN)	\$3,736.18	\$3,512.01
USB3008	8 JET STORM SURGE NOZZLE (3/4 IN, 1 IN, 15 IN - 30 IN)	\$4,144.06	\$3,895.41
USB3010	10 JET STORM SURGE NOZZLE (1 IN, 1 1/4 IN, 18 IN - 40 IN)	\$4,823.03	\$4,533.64
USB3012	12 JET STORM SURGE NOZZLE (1 IN, 1 1/4 IN, 20 IN - 72 IN)	\$5,189.00	\$4,877.66
USB3014	14 JET STORM SURGE NOZZLE (1 IN, 1 1/4 IN, 20 IN - 96 IN)	\$5,535.27	\$5,203.15
USB5005	PRIMUS I NOZZLE (1/2 IN, 4 IN - 8 IN)	\$1,589.60	\$1,494.23
USB5010	PRIMUS II NOZZLE (3/4 IN, 6 IN - 10 IN)	\$2,895.79	\$2,722.04
USB5013	PRIMUS II NOZZLE (1 IN, 6 IN - 15 IN)	\$2,895.79	\$2,722.04

Item Number	Description	MSRP	Discounted VSA Price
USB5020	PRIMUS III NOZZLE (1 1/4 IN, 12 IN - 24 IN)	\$3,573.53	\$3,359.11
USB5017	PRIMUS II ANTIBLASTER NOZZLE (3/4 IN, 6 IN - 10 IN)	\$2,895.79	\$2,722.04
USB5018	PRIMUS II ANTIBLASTER NOZZLE (1 IN, 6 IN - 15 IN)	\$2,895.79	\$2,722.04
USB5019	PRIMUS III ANTIBLASTER NOZZLE (1 1/4 IN, 12 IN - 24 IN)	\$3,573.53	\$3,359.11
USB5022	MINI-GATOR NOZZLE (3/8 IN 1/2 IN, 3 IN - 8 IN)	\$2,240.23	\$2,105.82
USB5025	MINI-GATOR NOZZLE CASE KIT	\$2,747.92	\$2,583.04
USB5030	GATOR NOZZLE (3/4 IN - 1 1/4 IN, 6 IN - 24 IN)	\$4,066.43	\$3,822.44
USB5035	GATOR NOZZLE CASE KIT	\$4,374.49	\$4,112.02
USB5050	SPIN-JET 3 (1/2 IN, MANHOLES	\$3,230.96	\$3,037.10
USB5052	SPIN-JET 6 (3/4 IN, MAN HOLE OR LIFT STATION 4 FT - 15 FT)	\$3,784.24	\$3,557.19
USB5055	SPIN-JET 6 (1 IN, MAN HOLE OR LIFT STATION 4 FT - 15 FT)	\$3,784.24	\$3,557.19

Bortek Industries, Inc. will provide a detailed quote upon request. Shipping and Handling will be added based on individual purchase order. Manufacturer Warranty Included.

For more information, please contact:

PWX Municipal Sales Team

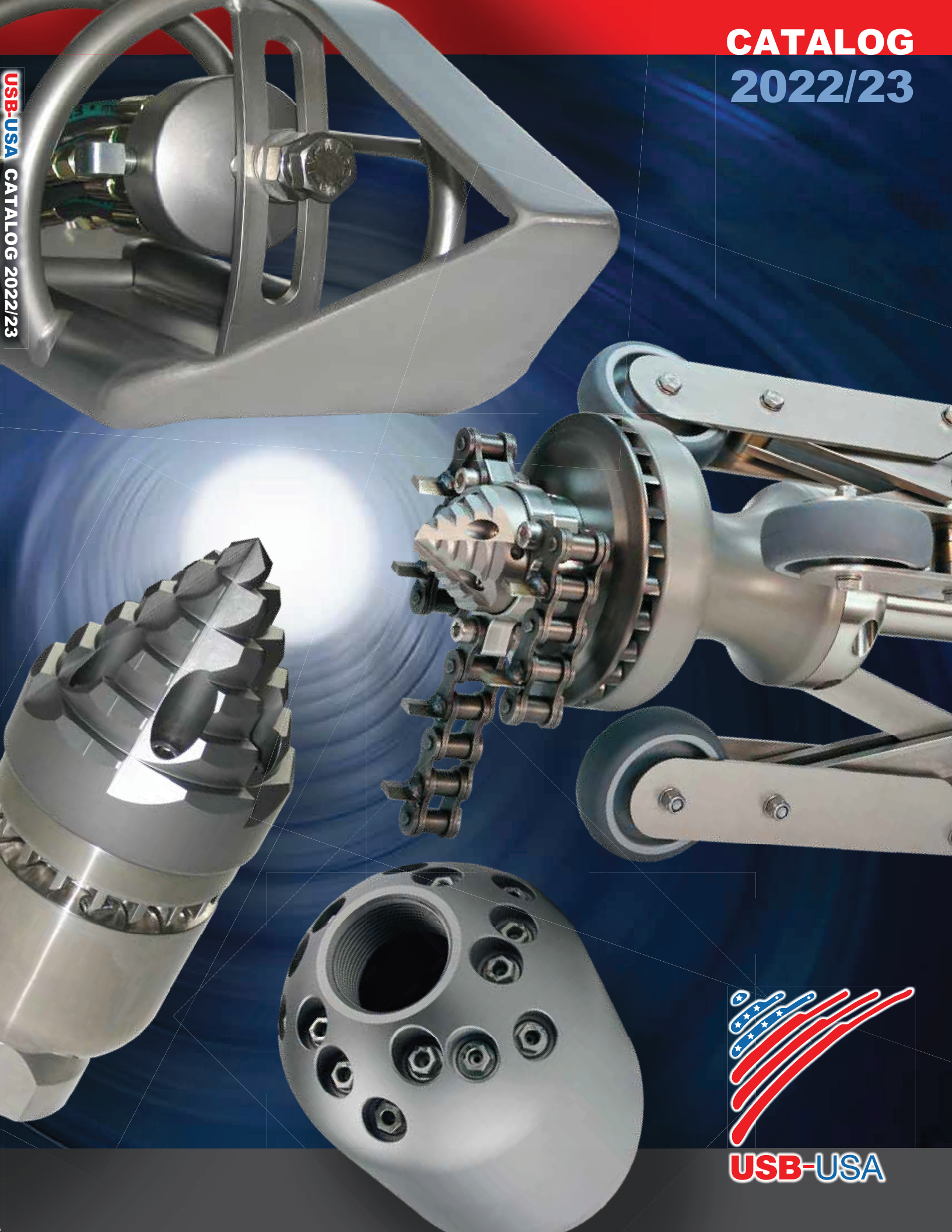
800.626.7835

contact@bortekpwx.com

www.bortekpwx.com

CATALOG 2022/23

USB-USA CATALOG 2022/23













CYCLE NOZZLE 3D



3002



3002











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
3001	3/4"	50	8" - 20"	7.00" x 3.8"	11	8	---	---	3
3002	1"	60	8" - 20"	7.00" x 3.8"	11	8	---	---	3
3003	1 1/4"	80	8" - 20"	7.00" x 3.8"	11	8	---	---	3

Spray angles for pipe cleaning and maintenance (12°/20°)

Produced from hardened stainless steel, the **Cycle Nozzle 3D** includes 3D fluid mechanics and two different rear spray angles of 12°/20°. These spray angles are ideal for general pipe cleaning and preventative maintenance work. This nozzle comes standard with one-piece ceramic inserts.

SUPER CYCLE NOZZLE 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
3000	1"	60	10" - 40"	7.80" x 4.20"	17,5	12	---	---	3
2999	1¼"	80	10" - 40"	7.80" x 4.20"	17,5	12	---	---	3

12 rear jets ideal for large pipes

The **Super Cycle Nozzle 3D** is a large, heavy-weight nozzle constructed from hardened stainless steel with 12 rear jets. Set at spray angles of 12° and 28°, the rear jets make this nozzle ideal for cleaning sewer, storm or other large pipes. Its powerful jet pattern and 3D fluid mechanics are excellent for flushing dirt from roots before cutting or general cleaning. This nozzle comes standard with one-piece ceramic inserts.











COMBINATOR 3D



1186



1186

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1182	1", 1 1/4"	80	15" - 48"	7.87" x 4.72"	23,14	12	---	---	3
1186	1"	60	10" - 32"	7.08" x 4.33"	17,63	10	---	---	3
1187	1"	60	8" - 20"	6.10" x 3.93"	12,12	8	---	---	3
1188	3/4"	35	8" - 20"	6.10" x 3.93"	12,12	8	---	---	3

Spray angles for pipe cleaning and maintenance (15° /25°)

The **Combinator 3D** nozzle is produced from hardened stainless steel and includes 3D fluid mechanics and two different rear spray angles of 15° /25°. These spray angles are ideal for general pipe cleaning and preventative maintenance work. This nozzle comes standard with one-piece ceramic inserts.









ROCKET LARGE 3D



1157



1154











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1152	1½"	110	16" - 48"	10.23" x 6.29"	44,09	12	---	---	3
1154	1", 1¼"	80	12" - 32"	7.87" x 4.72"	20,94	10	---	---	3
1156	1"	60	10" - 24"	7.08" x 4.33"	17,63	8	---	---	3
1157	1"	60	8" - 20"	6.10" x 3.93"	11,46	8	---	---	3
1158	¾"	35	8" - 15"	6.10" x 3.93"	11,46	8	---	---	3

Rocket-like power!

The tight spray angle of 7° combined with one piece-ceramic inserts and 3D fluid mechanics produce incredible results. Constructed from hardened stainless steel, the **Rocket Nozzle 3D Large** has a powerful jet pattern can flush dirt, mud, rocks and other large or heavy material found in sewer or storm pipes.

3D RADIAL CLEAN NOZZLE













 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1191	1½"	110	12" - 24"	12.40" x 7.48"	79,36	6	---	12	3
1190	1", 1¼"	80	10" - 20"	7.87" x 4.72"	20,94	5	---	10	3
1194	1"	60	8" - 15"	6.10" x 3.93"	12,12	6	---	6	3
1195	¾"	30	6" - 12"	4.92" x 3.14"	6,17	5	---	5	3

Powerful spray pattern leaves no streaks behind

Streaks are a thing of the past with the **3D Radial Clean Nozzle**! 3D fluid mechanics deliver smooth water to the rear 45° fan jets, creating a powerful 360° spray pattern capable of removing grease, scale, dirt and sand from pipe walls—without leaving streaks behind. The additional rear 15° propulsion jets move the nozzle up the line and help transport material back to the manhole. This high-performing nozzle is perfect before CCTV inspection.

TRI-JET 3D

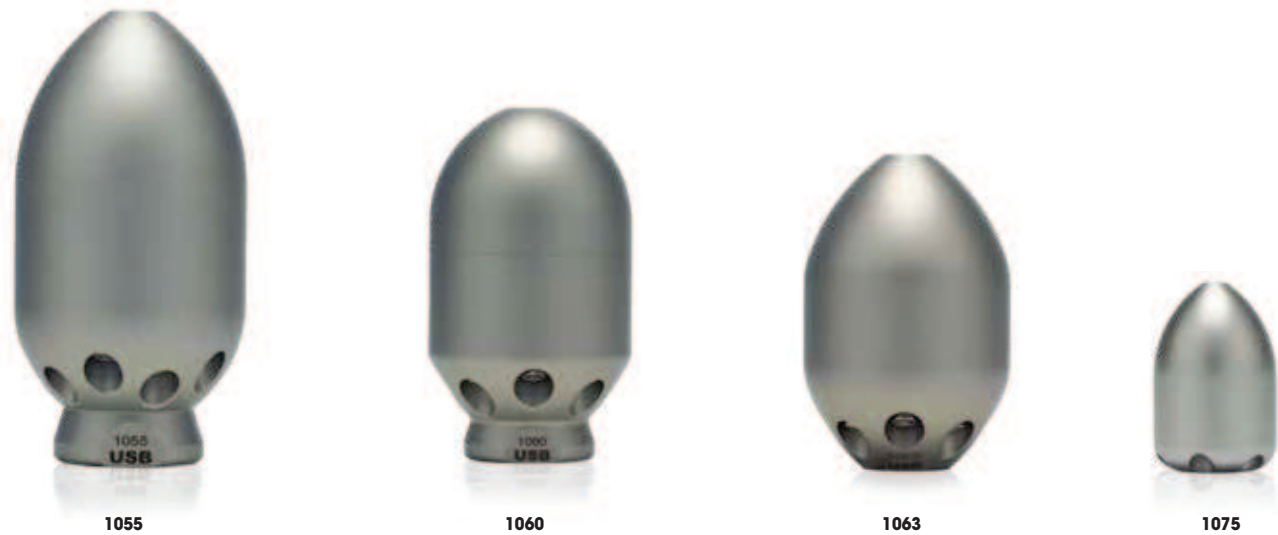












 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1225	1½"	110	16" - 48"	10.23" x 6.29"	44,09	15	---	---	3
1220	1", 1¼"	80	12" - 40"	7.87" x 4.72"	23,14	15	---	---	3
1218	1"	80	10" - 32"	7.08" x 4.33"	17,63	15	---	---	3
1213	1"	60	8" - 20"	6.10" x 3.93"	12,12	12	---	---	3
1213AL	1"	60	8" - 20"	6.10" x 3.93"	6,00	12	---	---	3
1210	¾"	50	4" - 12"	4.92" x 2.75"	4,85	12	---	---	3

A high-performance nozzle with options

The **Tri-Jet 3D**, available in aluminum or stainless steel, makes use of three different optimal rear spray angles, 7°/14°/21°. As an option, one of the spray angles can be blocked off all the way around the nozzle to focus the cleaning process on pulling, flushing or cleaning with the remaining two spray angles. This nozzle comes standard with one-piece ceramic inserts.

3D CLEANING NOZZLE

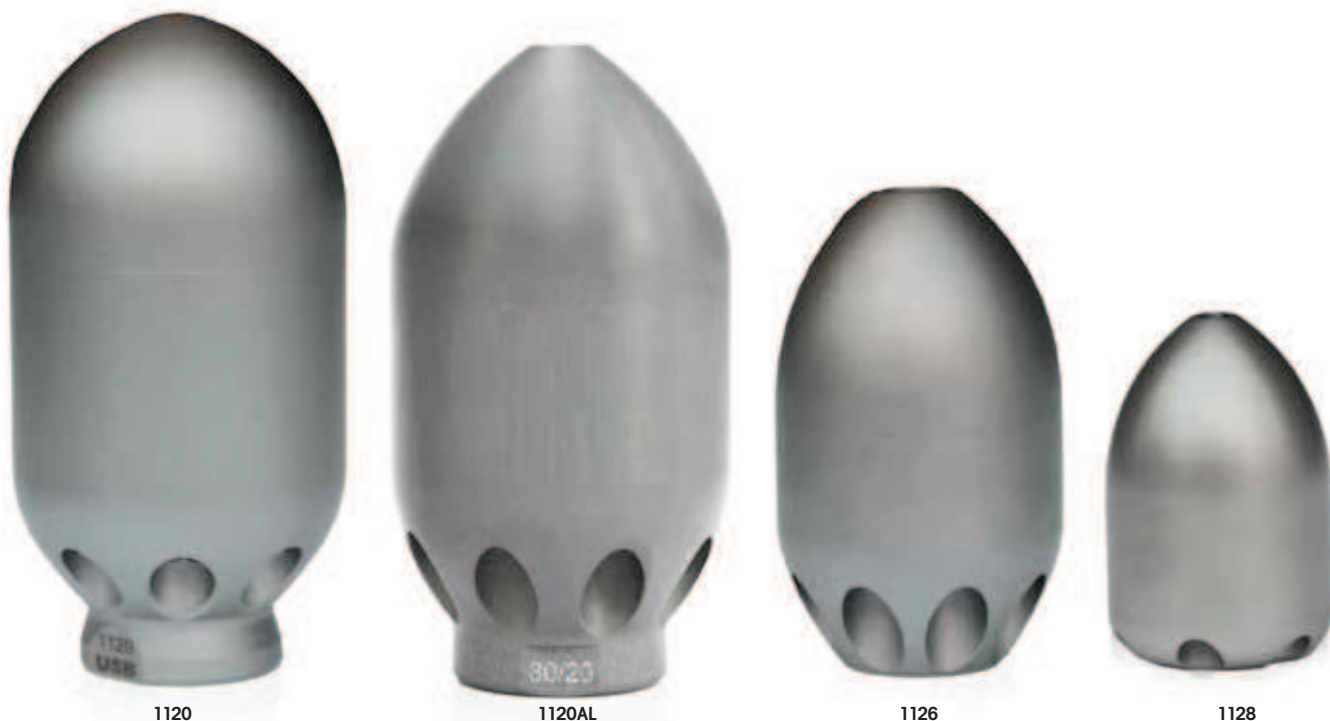






 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1052	1"	60	8" - 24"	7.08" x 3.14"	8,81	10	1	----	3
1055	1"	60	8" - 24"	4.72" x 3.14"	6,17	10	1	----	3
1060	1"	50	6" - 15"	4.92" x 2.75"	4,85	8	1	----	3
1063	3/4"	30	6" - 10"	4.13" x 2.75"	3,96	8	1	----	3
1070	3/4"	30	6" - 10"	3.74" x 2.36"	2,64	8	1	----	3
1062	1/2"	18	4" - 8"	4.13" x 2.75"	3,96	6	1	----	3
1071	1/2"	18	4" - 8"	3.74" x 2.36"	2,64	6	1	----	3
1075	1/2"	12	4" - 8"	2.36" x 1.57"	0,66	6	1	----	3

Rear-spraying angles and a forward-spraying jet

Hardened stainless steel construction with 3D fluid mechanics and two different rear-spraying angles of 15° /25° make this **3D Cleaning Nozzle** ideal for general pipe cleaning and preventative maintenance work. A forward-spraying jet is also included. This nozzle comes standard with one-piece ceramic inserts.

ROCKET NOZZLE 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1121	1"	50	6" - 24"	4.92" x 3.14"	7.27	10	---	----	3
1120	1"	50	6" - 15"	4.92" x 2.75"	4.85	8	---	----	3
1120AL	1"	50	6" - 15"	4.92" x 2.75"	2.00	8	---	----	3
1126	3/4"	30	6" - 12"	3.74" x 2.36"	2.64	8	1	----	3
1128	1/2"	12	4" - 8"	2.36" x 1.57"	0.66	6	1	----	3

Small but powerful

The **Rocket Nozzle 3D** has a tight spray angle of 7°. This combined with the one piece-ceramic inserts and 3D fluid mechanics, produces incredible pulling power. Constructed from hardened stainless steel, the powerful jet pattern can flush dirt, mud, rocks and any other large heavy material you may find in sewer or storm pipes. "The 1" Rocket nozzle is also available in aluminum for hilly difficult terrain".

RADI 70 3D













1112



1114



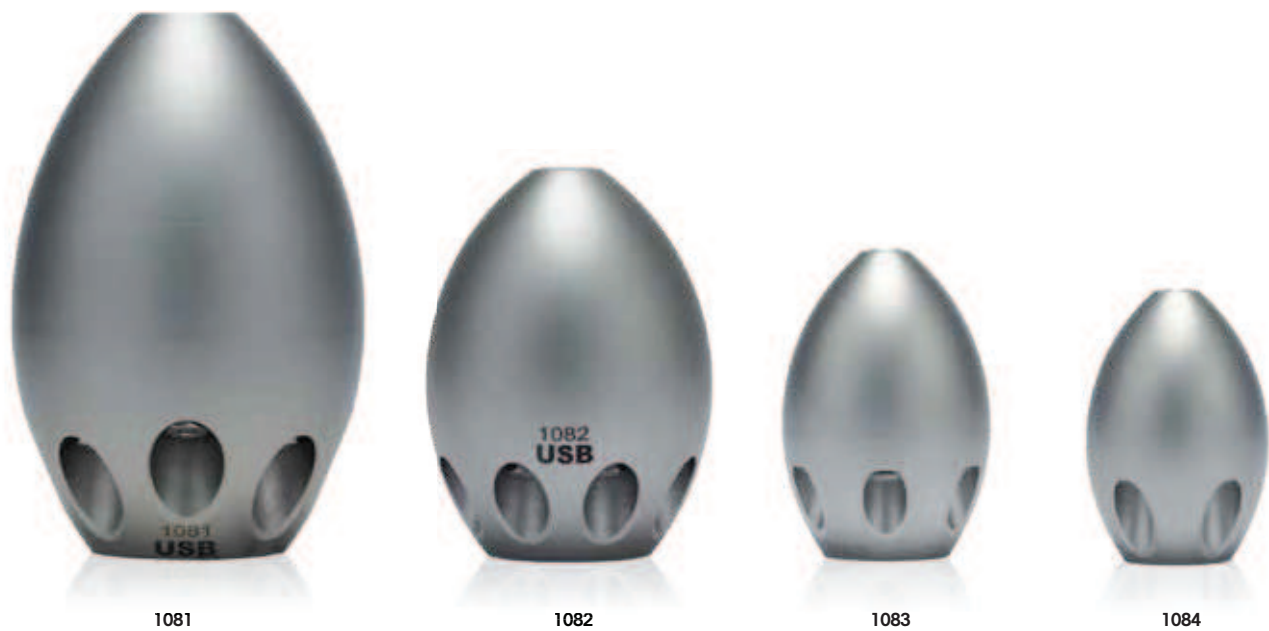
1117











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1112	1"	80	10" - 32"	7.08" x 3.14"	9,70	10	1	10	3
1114	1"	60	6" - 24"	5.11" x 2.75"	4,85	8	1	8	3
1115	¾"	30	6" - 12"	3.74" x 2.36"	2,64	8	1	8	3
1117	½"	18	4" - 8"	2.36" x 1.57"	0,66	6	1	6	3

Multiple spray angles blast materials away

3D fluid mechanics and multiple spray angles, including jets that are 70° perpendicular to the interior wall of the pipe, enable the **RADI 70 3D** to blast material off the pipe wall. The two remaining two spray angles of 15°/25° effectively propel the nozzle and clean the pipe. This nozzle comes standard with one-piece ceramic inserts.

EGG NOZZLE 3D













 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1081	1"	50	6" - 12"	4.13" x 2.75"	3,74	8	1	----	3
1082	3/4"	30	6" - 10"	2.75" x 1.96"	1,76	8	1	----	3
1083	1/2"	12	4" - 8"	2.16" x 1.57"	0,44	6	1	----	3
1084	3/8"	8	4" - 6"	1.96" x 1.37"	<0,44	5	1	----	2
1085	1/4"	6	2" - 4"	1.57" x 1.18"	<0,44	6	1	----	2
1086	1/8"	3	2" - 4"	0.78" x 0.62"	<0,44	3	1	----	1
1087	1/8"	3	2" - 4"	0.78" x 0.62"	<0,44	3	1	----	1

Designed for easy mobility and powerful cleaning

With its contoured egg-shaped design and 20° rear propulsion jets, the **Egg Nozzle 3D** is designed to slide easily down the pipe. 3D fluid mechanics and one-piece ceramic inserts deliver water that efficiently and effectively cleans while propelling the nozzle.

FS NOZZLE 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1172	1"	60	6" - 15"	4.13" x 2.75"	3,74	8	4	----	3
1173	3/4"	30	6" - 12"	2.95" x 1.96"	1,54	8	4	----	3
1174	1/2"	14	4" - 8"	2.36" x 1.57"	0,66	6	4	----	3
1175	3/8"	8	2" - 4"	1.96" x 1.37"	0,44	5	4	----	2
1176	1/4"	6	2" - 4"	1.57" x 1.18"	0,22	6	4	----	2











A penetrating nozzle that opens tough blockages and slides with ease

Designed to penetrate pipes with tough blockages, the **FS Nozzle 3D** is made from hardened stainless steel and features 3D fluid mechanics and four forward-facing one-piece ceramic inserts at 0° /15°. The 20° rear propulsion jets combined with the smooth egg shape enables the nozzle to slide easily down the pipe.

SUPER 12



1205

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 #
1205	1/2"	14	2" - 4"	1.96" x 1.18"	<1.0	12	1	----	2

A small nozzle that packs a punch—and navigates tight corners

Don't be fooled by its small size, the **Super 12** gets the job done. The 12 rear propulsion jets are more than any other 1/2" nozzle in our inventory. And the 15° spray angle makes this nozzle ideal for use around tight corners.

STANDARD NOZZLE



1256













1260



1255



1262











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1251	1 1/4"	80	8" - 12"	3.14" x 2.36"	2,2	10	1	----	2
1256	1"	50	6" - 12"	3.14" x 2.16"	1,76	10	1	----	2
1255	1"	50	6" - 12"	2.04" x 2.28"	1,5	12	4	----	2
1257	3/4"	30	6" - 8"	2.55" x 1.69"	0,88	8	1	----	2
1259	3/4"	30	6" - 8"	2.55" x 1.69"	0,88	6	1	----	2
1260	1/2"	12	4" - 6"	1.18" x 1.96"	0,22	6	1	----	1
1262	1/2"	12	2" - 6"	1.06" x 1.25"	0,22	6	1	----	2
1268	3/8"	8	2" - 4"	1.37" x 0.98"	<0,22	6	1	----	1
1273	1/4"	3	up to 4"	0.78" x 0.78"	<0,22	6	1	----	1
1274	1/4"	3	up to 4"	0.78" x 0.78"	<0,22	6	----	----	1

A nozzle that sets new standards for cleaning smaller pipes

Compact, lightweight and inexpensive are three words that sum up the **Standard Nozzle**. Made from hardened stainless steel with a rear spray angle of 20°, this nozzle is perfect for cleaning smaller pipes. A front jet for penetration is also available.

CHISEL NOZZLE



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 Weight	 Rear Jets	 Front Jets	 Radial Jets	 Tier
1316	1 1/4"	100	8" - 24"	7.08" x 3.34"	9,70	6	5	----	2
1317	1 1/4"	80	8" - 20"	6.29" x 2.95"	5,51	6	5	----	2
1318	1"	60	8" - 20"	6.29" x 2.95"	5,51	6	5	----	2
1319	1 1/4"	80	8" - 20"	3.93" x 2.36"	1,76	10	4	----	2
1320	1"	60	8" - 15"	3.74" x 2.36"	1,50	8	4	----	2
1323	3/4"	30	6" - 12"	2.95" x 1.96"	0,66	6	4	----	2
1326	1/2"	12	4" - 8"	2.36" x 1.18"	0,33	6	4	----	1
1328	3/8"	12	2" - 4"	1.57" x 0.98"	<0,22	6	4	----	1
1330	1/4"	6	2" - 4"	1.18" x 0.78"	<0,22	6	4	----	1

Reliable, powerful and effective at tough blockages

The **Chisel Nozzle** is a reliable sewer cleaning nozzle that is a must have! Sharp edges and multiple forward jets deliver powerful penetration to effectively open tough total blockages. A drill point can be added to the front of the Chisel as well.











RADIAL CHISEL NOZZLE



1313



1314

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1313	1"	80	8" - 20"	6.29" x 2.95"	5,51	6	5	6	2
1314	3/4"	30	6" - 12"	4.13" x 2.36"	2,42	6	5	6	2

Greater penetrating power that restores flow

The **Radial Chisel Nozzle** uses sharp edges, multiple forward-penetrating jets and radial spray jets at 70° to break up blockages from within. This nozzle is designed for ultimate penetrating power.











3D EXTREME



1136



1136










 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1136	1"	60	6" - 15"	8.74" x 2.75"	9.47	8	1	----	3
1136,75	3/4"	30	6" - 15"	8.74" x 2.75"	9.47	8	1	----	3

Exceptional cleaning and pulling power

Ideal for pipes that may have holes in the bottom or offsets, the **3D Extreme** nozzle is a worthy tool to have in your tool box. 3D fluid mechanics and one-piece ceramic inserts create a strong jet pattern with a spray angle of 11°, resulting in exceptional cleaning and pulling power. One forward jet offers a penetration option as well.

FD2 NOZZLE 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1278	1 1/4"	100	12"	7.87" x 3.54"	14,33	8	---	---	3
1279	1"	80	12"	7.87" x 3.54"	14,33	8	---	---	3
1280	1"	60	8"	6.29" x 2.95"	8,37	8	---	---	3
1282	3/4"	30	6"	5.51" x 2.36"	3,96	8	---	---	3
1290	1/2"	12	4"	4.72" x 1.96"	2,64	6	---	---	3

Power meets control

The **FD2 Nozzle 3D** was designed to clean half open or completely open drain pipes! The hardened stainless steel nozzle includes 3D fluid mechanics that provide excellent cleaning and pulling power. At the same time, the one-piece ceramic inserts spray at an angle, preventing water from splashing upwards out of the channel.

DIGGER NOZZLE



1144













1140



1141



1145

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1140	1/2"	12	2" - 8"	1.57" x 1.18"	0,22	---	---	7	2
1142	1/4"	6	Up to 3"	1.18" x 0.78"	<0,22	---	---	7	2
1144	Digger Nozzle Holder			0.98" x 1.96"	0,22	---	---	---	N/A

A front-focused nozzle

Used as is or together with a special push rod attachment, the **Digger Nozzle** is strictly made for pushing material out of small pipes. The absence of rear jets focus all the water to the front of the nozzle, enabling it to clean effectively.

PRIMUS



5005













5013













5020











PRIMUS I

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5005	1/2"	12	4" - 8"	5.36" x 2.36"	3	3	1	4	3

PRIMUS II

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5010	3/4"	30	6" - 10"	9" x 4.72"	8	5	1	4	3
5013	1"	60	6" - 15"	9" x 4.72"	8	5	1	4	3

PRIMUS III

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5020	1", 1 1/4"	80	12" - 24"	11.63" x 5.90"	20,94	5	1	4	3

A user-friendly, innovative nozzle that flushes out debris

Designed for controlled rotation and use with recycled water, the innovative **Primus** requires no lubrication or replacement of internal parts for at least one year. The nozzle is built from hardened stainless steel. A rotating head removes grease, light scale and roots. And the 3D fluid mechanics in the propulsion unit flush out debris, providing outstanding results.

PRIMUS ANTIBLASTER 3D













5018













5019

PRIMUS ANTIBLASTER II 3D

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5017	3/4"	30	6" - 10"	9" x 4.72"	8	5	1	4	3
5018	1"	60	6" - 15"	9" x 4.72"	8	5	1	4	3

PRIMUS ANTIBLASTER III 3D











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5019	1, 1 1/4"	80	12" - 24"	11.63" x 5.9"	20,94	5	1	4	3

Controlled rotation for shallow sewer lines

Designed to reduce the chances of blowing toilets, the **Primus Antiblaster Nozzle 3D** is a controlled rotating nozzle that is also low maintenance. The nozzle is built from hardened stainless steel and requires no maintenance or replacement of internal parts for at least one year. A rotating head removes grease, light scale and roots while the wide 42° rear spray angles in the propulsion unit clean / flush out debris.

ROTOR NOZZLES



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1345	1 1/4"	100	10" - 20"	7.08 x 3.54"	14,1	6	---	3	2
1350	1"	80	6" - 15"	5.51" x 3.14"	9,25	6	---	3	2
1351	1"	40	6" - 12"	4.13" x 2.36"	3,30	6	---	3	2
1352	3/4"	30	6" - 10"	3.74" x 1.96"	3,30	6	---	3	2
1357	1/2"	12	4" - 8"	2.95" x 1.57"	1,10	3	---	3	2
1360	3/8"	6	2" - 6"	2.16" x 1.18"	0,66	3	---	3	2
1362	1/4"	6	2" - 6"	2.16" x 1.18"	0,66	3	---	3	2
1364	1/4"	6	Up to 4"	1.57" x 0.78"	0,33	3	---	---	1
1365	1/8"	3	Up to 4"	1.33" x 0.62"	0,22	3	---	---	1

Multi-angled inserts and rear propulsion jets remove and flush debris

Rotor Nozzles feature three one-piece ceramic inserts in the middle rotating section with spray angles of 90° /75° /60°, effectively removing grease, dirt and light roots from pipes. Rear propulsion jets help flush the debris. Constructed of hardened stainless steel, the nozzles include non-corrosive, low-maintenance rotating centers.











FRONT PUSH ROTOR



1308



1309 | 1310

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1308	1/2"	14	4" - 8"	2.75" x 1.57"	0.88	3	4	3	2
1309	3/8"	8	up to 6"	2.16" x 1.18"	0.66	3	4	3	2
1310	1/4"	8	up to 6"	2.16" x 1.18"	0.66	3	4	3	2

A front-pushing nozzle designed for laterals and small pipes

The stainless steel **Front Push Rotor nozzle** is designed for effective cleaning of laterals and other small pipes. Rear jets propel the nozzle in the pipe, front rotating jets move material forward and additional rotating radial jets thoroughly clean the interior circumference of the pipe.











T-HAMMER



1334



1335

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1333	1 ¼"	100	10" - 24"	10.23" x 5.19"	33,06	6	3	3	2
1334	1, 1 ¼"	80	8" - 20"	7.08" x 3.54"	14,33	6	3	3	2
1335	1	80	6" - 15"	5.51" x 3.14"	8,81	6	3	3	2











Controlled force for plastic pipes

The **T-Hammer**'s middle rotor section generates vibration in plastic pipes to break up deposits and other hard materials. Turbine technology controls the agitation. This stainless steel nozzle can be used with recycled water and comes standard with one-piece ceramic inserts.

WARNING: Use in thick plastic pipes only!! NEVER use in clay, concrete or thin plastic pipes

V-HAMMER



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1337	1"	40	6" - 12"	4.13" x 2.36"	3,08	6	----	3	2
1338	¾"	30	6" - 10"	3.62" x 1.96"	1,76	6	----	3	2
1339	½"	12	4" - 8"	2.75" x 1.57"	1,32	3	----	3	2
1340	¼"	6	up to 4"	2.16" x 1.18"	0,33	3	----	3	2
1341	⅜"	6	up to 4"	2.16" x 1.18"	0,33	3	----	3	2

Powerful impact for plastic pipes

The V-Hammer's middle rotor section generates vibration in plastic pipes to break up deposits and other hard materials that can then be flushed out. Less aggressive options for the top cap section are also available.

WARNING: Use in thick plastic pipes only!! NEVER use in clay, concrete or thin plastic pipes.

GATOR

Mini-Gator













5022



5030



5025/5035

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Head	 # Tier
5022	3/8 - 1/2"	9	3" - 8"	4.33 x 1.57"	1.32	----	1	4	3
5025	CASE KIT 1/2"								
5030	3/4 - 1"	50	6" - 24"	8.66" x 4.52"	14.33	----	1	4	3
5035	CASE KIT 1"								

High Performance Rotating Nozzle

The Gator and Mini Gator nozzles cut and remove roots, grease, blockages, and scale in various pipes ranging from 2" - 20". Encased in a compact stainless-steel body the strong reinforced internal design rotates the head. 3D fluid mechanics in the head smoothly direct all the incoming high-pressure water to the four rotating jets in the rear of the head and one in front. These rotating jets create an extremely powerful 360 degree all around complete cleaning of the pipe, flushing, and removing debris in less passes. The offset front jet eliminates blockages easily and effectively. A case kit is available which includes an additional skid.

SPIN-JET



5055













5052



5050



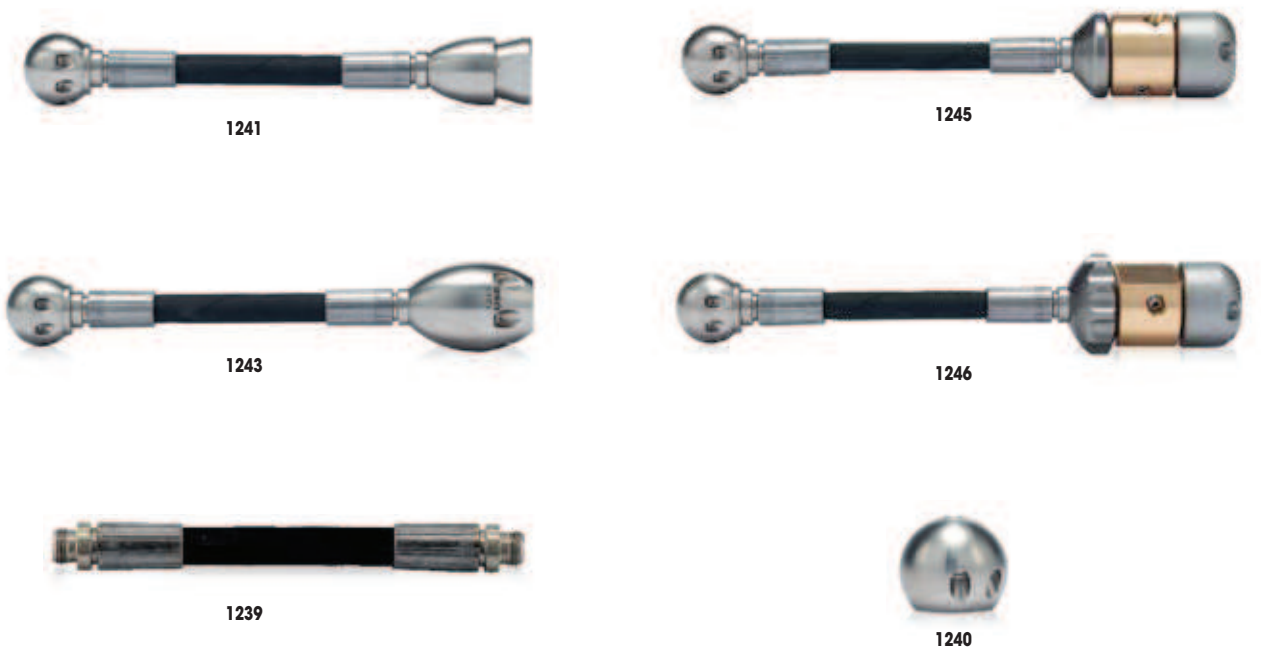
5058











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
5050	1/2", 1"	12	Man Hole or Lift Station 4'-15'	6.29" x 9.84"	4,85	----	3	3	2
5052	3/4"	30	Man Hole or Lift Station 4'-15'	6.29" x 11.02"	7,05	----	3	6	2
5055	1"	60	Man Hole or Lift Station 4'-15'	9.44" x 11.81"	12,34	----	3	3	2
5058	Centering Aid	5050 5052							
5059	Centering Aid	5055							
5070	Nozzle Extension	1"							
5072	Nozzle Extension	2"							
5074	Nozzle Extension	4"							

A controlled, rotating nozzle for cleaning lift stations, barrels and manholes

The **Spin-Jet** is a self-centering, controlled rotating nozzle that is used for cleaning lift stations, barrels and manholes prior to rehabilitation. Available in three different versions, the Spin-Jet has driving nozzles that rotate in a 360° horizontal plane only. This action eliminates the need to cover the manhole during operation, allowing for constant viewing of the cleaning process. Front jets thoroughly clean any grease, sludge or mud at the bottom.

STEERING NOZZLE



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1239	Replacement Hose with Threaded Ends								
1240	1/2"	12	3" - 8"	10.62" x 1.25"	0,22	4	4	---	2
1241	1/2"	12	3" - 8"	9.05" x 1.25"	0,55	6	4	---	2
1243	1/2"	12	3" - 8"	9.44" x 1.57"	0,99	6	4	---	2
1245	1/2"	12	3" - 8"	9.84" x 1.57"	1,54	3	4	3	2
1246	1/2"	12	3" - 8"	9.84" x 1.57"	1,43	3	4	3	2

A nozzle for navigating
 As the name suggest, the **Steering Nozzle** can be navigated into and through laterals and other branches. Simply twist your high-pressure hose to the left or right to direct the nozzle exactly where you want it to go.

ANTIBLASTER













1198



1199



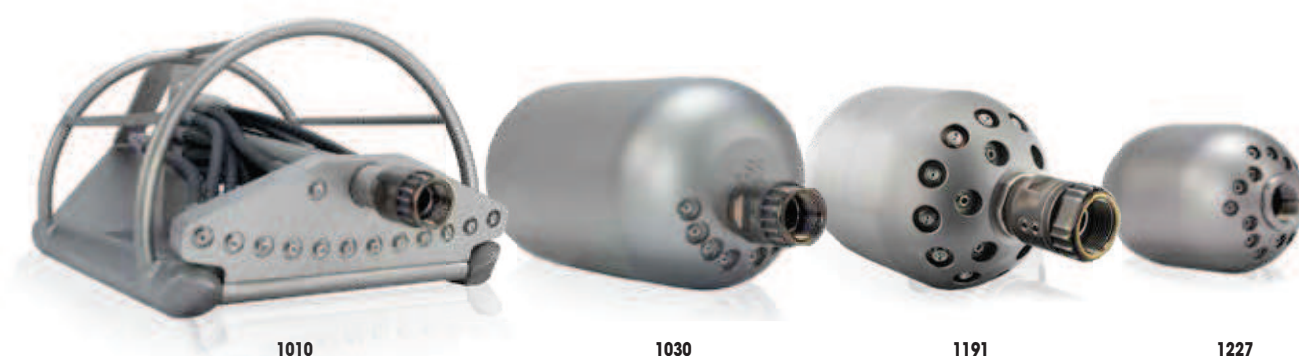
1200











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1198	1"	60	6" - 12"	4,52" x 2,75"	3,74	8	1	---	3
1198,75	3/4"	30	6" - 10"	4,52" x 2,75"	3,74	8	1	---	3
1199	1"	80	6" - 12"	4,52" x 2,75"	3,74	8	1	8	3
1200	1"	80	8" - 15"	5,90" x 3,93"	10,58	6	---	6	3

Smooth propulsion for shallow depths and pipes near homes

With a wide 35 and 70 degree spray angles, the **Antiblaster** nozzle is perfect for reducing the chances of blowing toilets. Constructed from hardened stainless steel, the nozzle was designed for cleaning pipes at a shallow depths and pipes that are adjacent to homes. The 3D fluid mechanics and one-piece ceramic inserts provide powerful cleaning and smooth propulsion. An optional front jet is also available.

OVERSIZED NOZZLES



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1010	1½"	120	40" - 196"	32.28 x 17.32"	167	14	----	----	3
1030	1½"	100	12" - 78"	16.53 x 7.48"	105	8	----	----	3
1191	1½"	100	12" - 24"	12.40 x 7.48"	79	6	----	10	3
1227	1½"	100	15" - 120"	10.23 x 6.29"	79	15	----	----	3

Special applications require special tools

Oversized nozzles are larger and heavier than ordinary cleaning nozzles. These nozzles are mainly used in conjunction with high water volumes and large hose diameters in big sewer lines. With 120 – 210 GPM and high-pressure hose 1¼" to 1½", deposits can be loosened and transported in these, constantly water bearing sewers. Due to their mass, the oversized nozzles will stay on the bottom of the sewer and never float. These nozzles come with one-piece ceramic inserts.

WARRANTY



Thank you for your interest in the products and services of USB-USA LLC. This limited warranty applies to physical goods, and only for physical goods, purchased from USB-USA LLC.

What does this limited warranty cover?

This limited warranty covers any manufacturer's defect in material or workmanship under normal use during the warranty period.

During the warranty period, USB-USA LLC will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

What will we do to correct problems?

USB-USA LLC will repair the product at no charge, using new or refurbished replacement parts. If necessary full replacement is offered.

How long does the coverage last?

The warranty period for physical goods purchased from USB-USA LLC is one year for any physical nozzle or chain cutter that spins (Turbo Chain Cutter, Rotors, Primus etc.) and three years for any nozzle with ceramic nozzle inserts and 3D fluid mechanics from the date of purchase.

A replacement physical good or part assumes the remaining warranty of the original physical good or 90 days from the date of replacement or repair, whichever is longer.

What does this limited warranty not cover?

This limited warranty does not cover any problem that is caused by conditions, malfunctions or damage not resulting from defects in material or workmanship.

What do you have to do?

To obtain warranty service, you must first contact us to determine the problem and most appropriate solution for you.



USB-USA

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