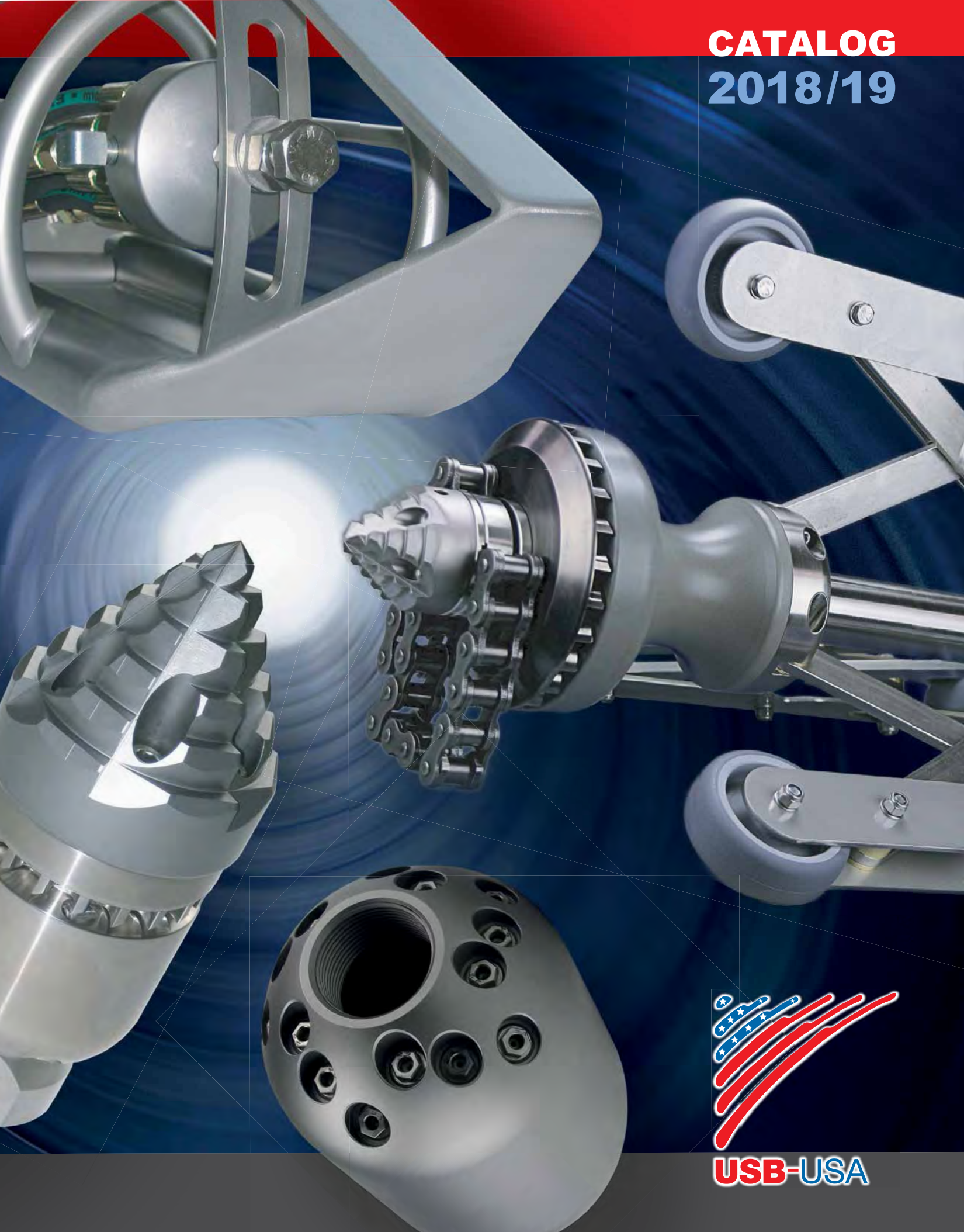
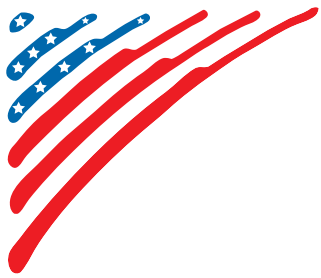


CATALOG 2018/19



USB-USA



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Generations of Craftsmanship

USB Duesen GmbH a family owned, and operated German manufacturing business partnered with Patrick Savio in the United States to form USB-USA LLC. Strategically located in metro Atlanta, GA., USB-USA services municipalities, contractors and distributors across North, South and Central America. USB-USA specializes in providing high-quality stainless-steel sewer and pipe cleaning nozzles with 3D fluid mechanics, Turbo Chain Cutters and accessories.

USB Duesen is ISO 9001:2015 certified and has been manufacturing high-grade stainless-steel sewer cleaning equipment for over 25 years. These valuable years of experience combined with endless field tests, scientific evidence and patented protected ideas produce innovative, long lasting, durable equipment. State-of-the-art 5 axis CNC machines are maintained at the highest quality standard to ensure the output is consistent and precise. USB Duesen strives to continually improve and develop their products for success in the field across the globe!



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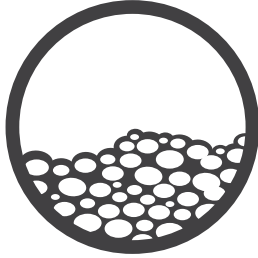
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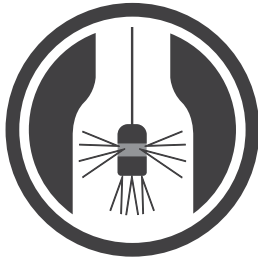
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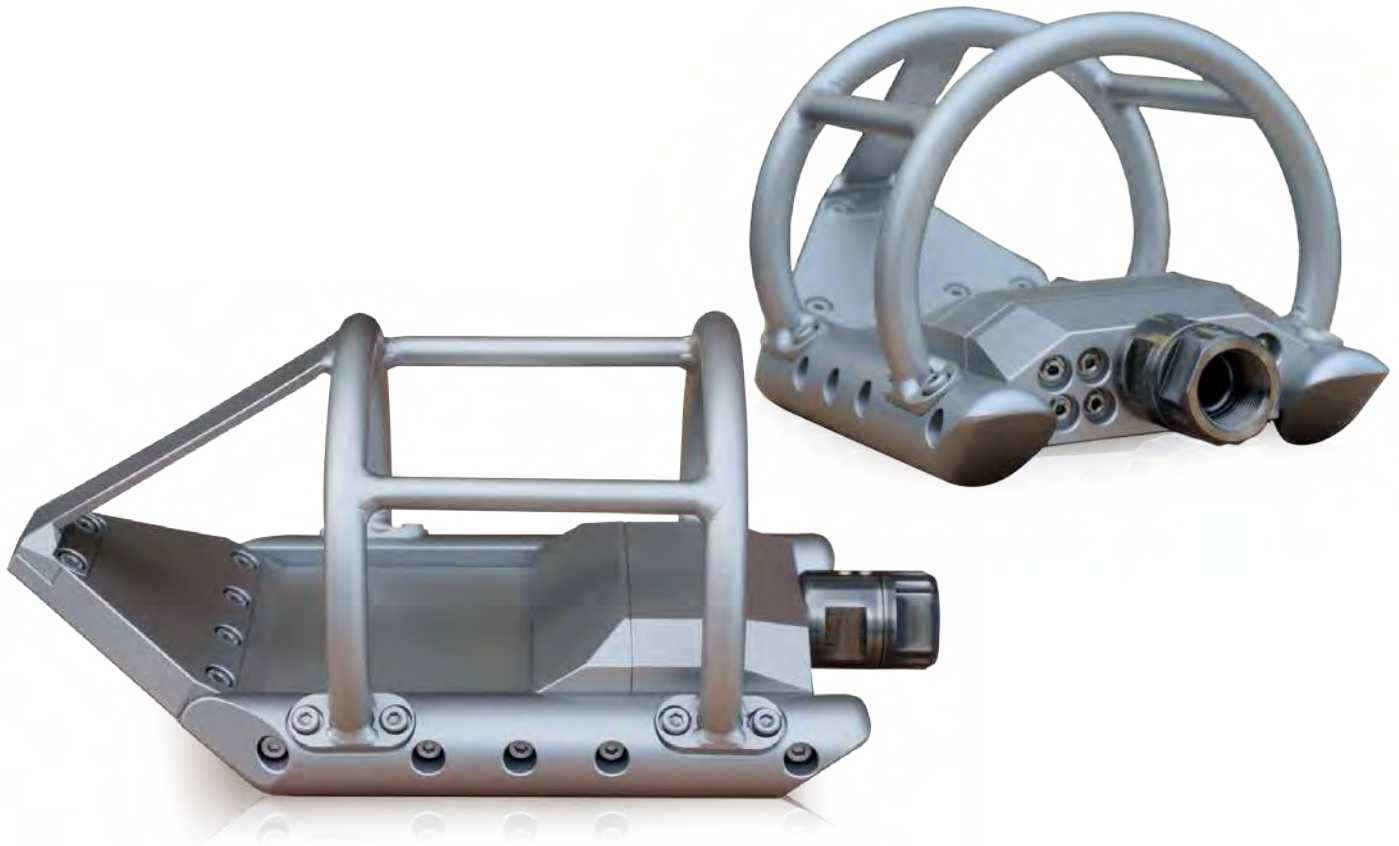
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Softblaster 3D

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STORM SURGE 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
3006	¾" - 1"	30	12" - 15"	20.80" x 8.10"	21	6	---	---	3
3008	1" - 1¼"	40	15" - 30"	20.80" x 9.00"	40	8	---	---	3
3010	1" - 1¼"	60	18" - 40"	20.80" x 11.3"	56	10	---	---	3
3012	1" - 1¼"	80	20" - 80"	20.80" x 11.8"	58	12	---	---	3
3014	1" - 1¼"	80	20" - 96"	20.80" x 11.8"	60	14	---	---	3

A highly efficient floor cleaner made of hardened stainless steel the Storm Surge Nozzle 3D has a built-in power manifold with fixed jets and 3D fluid mechanics which produce an intense and forceful jet pattern resulting in outstanding excavation, traction and transportation of material even under water! Roll over bars enable this nozzle to return to its correct position every time. One piece-ceramic inserts and a high-pressure swivel come standard on this nozzle.

BAGGER MAX 3D













1015



1012



1013

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1012	1 1/4"	80	32" - 120"	30.00" x 12.00"	115	12	---	---	3
1013	1 1/4"	80	24" - 72"	22.80" x 10.00"	66	10	---	---	3
1015	1"	40	15" - 48"	19.68" x 8.66"	53	8	---	---	3
1017	1"	40	10" - 30"	15.74" x 7.87"	46	6	---	---	3
1018	3/4"	35	10" - 30"	15.74" x 7.87"	33	6	---	---	3

A high efficiency floor cleaner made of hardened stainless steel, this nozzle includes an adjustable nozzle block that can be positioned between 0° - 30° depending on your application. The power manifold has built-in 3D fluid mechanics which produce an intense and forceful jet pattern resulting in outstanding excavation, traction and transportation of material even under water! Roll over bars enable this nozzle to return to its correct position every time. One piece-ceramic inserts and a high-pressure swivel come standard on this nozzle.

FLOUNDER 3D



1377



1381













1378

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1377	1 1/4"	80	15" - 60"	10,62" x 7,08"	37,47	10	---	---	3
1378	1"	50	12" - 40"	8,66" x 5,90"	20,94	8	---	---	3
1380	3/4"	30	10" - 24"	7,08" x 3,93"	9,5	6	---	---	3
1381	1/2"	12	4" - 12"	5,90" x 3,54"	6,61	4	---	---	3
1382	3/8"	6	2" - 4"	3,93" x 2,75"	2,2	4	---	---	3

Being flat, compact, heavy and wedge-shaped makes the Flounder Nozzle 3D ideal for cleaning sand, dirt/mud, gravel and other material at the bottom of the pipe. The 3D fluid mechanics in combination with the design makes the cleaning process fast and effective.

SPEED POWER 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
1030	1 1/4"	80	15" - 60"	19.68" x 7.87"	106	8	---	---	3
1035	1 1/4"	80	12" - 40"	16.53" x 6.29"	66	8	---	---	3
1038	1"	60	10" - 32"	13.77" x 5.51"	49	6	---	---	3

The Speed Power 3D is a heavy sphere and ellipsoid shaped high efficiency floor cleaner for oval or egg-shaped pipes. The 3D fluid mechanics create a powerful jet pattern that is mainly directed towards the pipe bottom to move heavy debris. The nozzle is constructed of hardened stainless steel and comes standard with one-piece ceramic inserts and a high-pressure swivel.











VENTURI NOZZLE



2704



2700

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
2704	1 1/4"	80	48" and 120"	27.16" x 15.74"	101,41	2	---	---	2
2702	1 1/4"	80	32" - 60"	27.55" x 15.74"	92,59	1	---	---	2
2704	1"	60	32" - 48"	25.59" x 11.81"	59,52	1	---	---	2

USB has designed a specialized nozzle to clean large sewer pipes with continuous flow. Available in two different versions the Venturi nozzle operates according to the Venturi principle enabling it to clean and move large volumes of sand, mud, sludge, gravel and other debris out of the pipe. Most importantly the nozzle must be completely submerged in water when operating! The Venturi nozzle comes standard with a high-pressure swivel.

CYCLE NOZZLE 3D













P/N	Hose Con.	Minimum/GPM	Pipe Diameter	L x W Dimensions	lbs.	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

The Cycle Nozzle 3D produced from hardened stainless steel 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.	 Rear Jets	 Front Jets	 Radial Jets	 #
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

The Super Cycle Nozzle 3D is a large, heavy nozzle constructed from hardened stainless steel with 12 rear jets. The jets are at spray angles of 12° and 28° which make it ideal for cleaning large pipe. Whether it is sewer or storm pipe, the Super Cycle 3D has a powerful jet pattern and is excellent for flushing dirt from roots before cutting or general cleaning. 3D fluid mechanics and one-piece ceramic inserts create an excellent nozzle.

COMBINATOR 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1182	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

The Combinator 3D nozzle produced from hardened stainless steel 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













1157

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 Weight	 Rear Jets	 Front Jets	 Radial Jets	 Tier
1152	1½"	110	16" - 48"	10.23" x 6.29"	44,09	12	---	---	3
1154	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 7.87"	11,46	8	---	---	3
1158	¾"	35	8" - 15"	6.10" x 7.87"	11,46	8	---	---	3

Much like a rocket, this nozzle has serious power behind it! 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 powerful jet pattern created by the Rocket nozzle 3D large can flush dirt/mud, rocks, and any other large heavy material you may find in sewer or storm pipe.

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	---	---	3
1190	1¼"	80	10" - 20"	7,87" x 4,72"	20,94	5	---	---	3
1194	1"	60	8" - 15"	6,10" x 3,93"	12,12	6	---	---	3
1195	¾"	30	6" - 12"	4,92" x 3,14"	6,17	5	---	---	3

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 spray pattern that is fanned-out 360°. The powerful spray pattern is capable of removing grease, scale, dirt and sand from the walls of the pipe without leaving streaks behind. The additional rear 15° propulsion jets not only move the nozzle up the line but also 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	1¼"	80	11.81" - 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
1210	1"	50	4" - 12"	4.92" x 2.75"	4,85	12	---	---	3

Options are what this high-performance nozzle is all about. The Tri-Jet 3D nozzle 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.

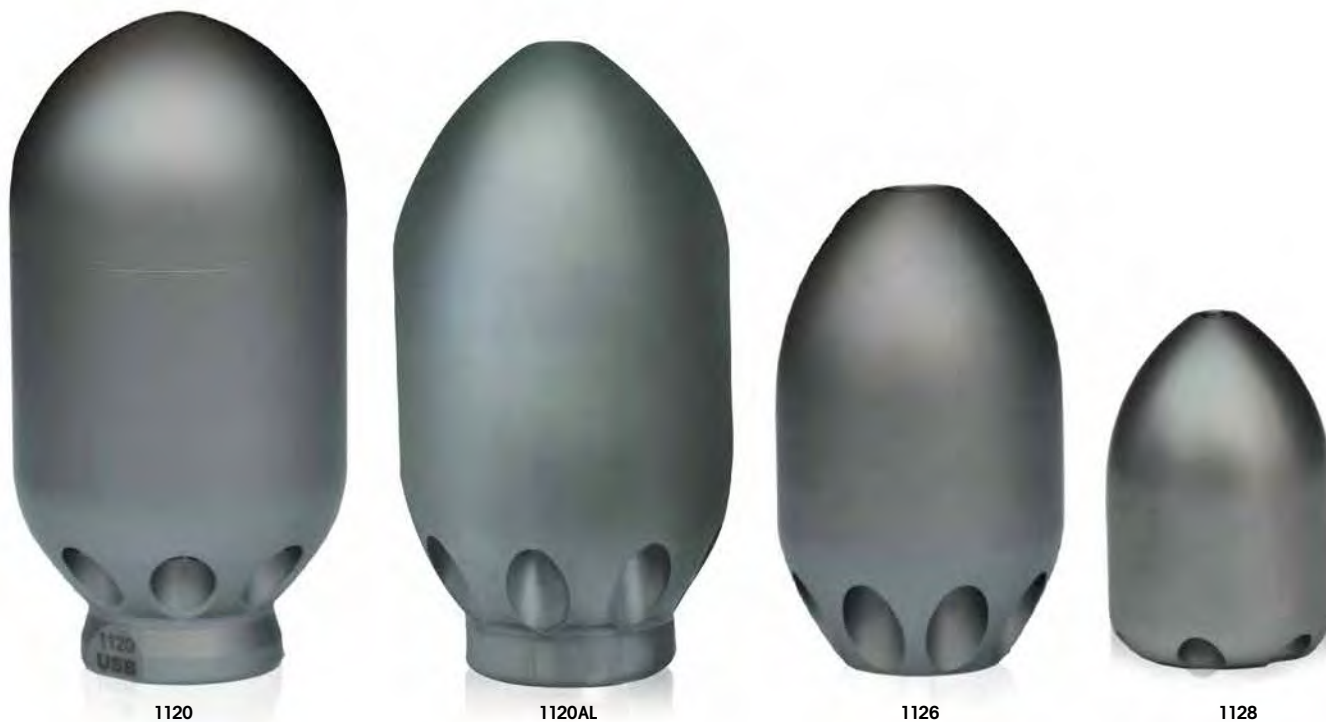
3D CLEANING NOZZLE



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
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	¾"	30	6" - 10"	4.13" x 2.75"	3,96	8	1	----	3
1070	¾"	30	6" - 10"	3.74" x 2.36"	2,64	8	1	----	3
1062	½"	18	4" - 8"	4.13" x 2.75"	3,96	6	1	----	3
1071	½"	18	4" - 8"	3.74" x 2.36"	2,64	6	1	----	3
1075	½"	12	4" - 8"	2.36" x 1.57"	0,66	6	1	----	3

The 3D Cleaning nozzle is an excellent sewer cleaning nozzle for everyday use. Hardened stainless steel construction with 3D fluid mechanics and two different rear spraying angles of 15°/25° make this 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	¾"	30	6" - 12"	3,74" x 2,36"	2,64	8	1	---	3
1128	½"	12	4" - 8"	2,36" x 1,57"	0,66	6	1	---	3

Very similar to the Rocket Nozzle large, this smaller version has serious power behind it also! The tight spray angle of 7° combined with the one piece-ceramic inserts and 3D fluid mechanics produce incredible results. Constructed from hardened stainless steel, the powerful jet pattern created by the Rocket nozzle 3D can flush dirt/mud, rocks, and any other large heavy material you may find in sewer or storm pipe.

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	3/4"	30	6" - 12"	3.74" x 2.36"	2,64	8	1	8	3
1117	1/2"	18	4" - 8"	2.36" x 1.57"	0,66	6	1	6	3

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











EGG NOZZLE 3D



1082



1083

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
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

With its contoured egg shaped design, this nozzle is perfect for mobility in the pipe. The smooth egg shape combined with 20° rear propulsion jets enables the nozzle 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

The FS Nozzle 3D with its contoured egg shaped design was created to be a penetrating nozzle. Made from hardened stainless steel with 3D fluid mechanics, four one-piece ceramic inserts at 0°/15° in front successfully penetrate and open tough blockages. The 20° rear propulsion jets combined with the smooth egg shape enables the nozzle to slide easily down the pipe.

SUPER 12



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

The Super 12 nozzle is small and packs a punch! The 12 rear propulsion jets are more than any other 1/2" nozzle in our inventory. Ideal for use around tight corners because of its 15° spray angle, the Super 12 gets the job done.

STANDARD NOZZLE



1256













1260



1255



1262

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 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	----	1

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° makes this nozzle perfect for cleaning smaller pipes. A front jet for penetration is also available.

CHISEL NOZZLE













1320



1323













1326

 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"	80	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
1331	1/4"	4	2" - 4"	1.18" x 0.78"	<0,22	3	4	----	1

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



 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's what the Radial Chisel is designed for. By using the sharp edges and multiple forward penetrating jets the Radial Chisel encompasses the best parts of the chisel nozzle design while also including a radial spray angle. The additional radial spray jets at 70° break up blockage from within, enabling the nozzle to fully penetrate and restore flow!

3D EXTREME












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

Used in 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 inside of the nozzle 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



1279

 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

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











DIGGER NOZZLE



1140



1140 + 1144 Digger Nozzle with Holder

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
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

Used as is or together with a special push rod attachment, the Digger nozzle is strictly made for pushing material out of small pipes. No rear jets focus all the water to the front of the nozzle enabling it to effectively clean.

PRIMUS



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"	4.33" x 2.36"	2,64	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"	5.90" x 4.72"	7,05	4	1	4	3
5013	1"	60	6" - 15"	6.29" x 4.72"	8,37	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 1/4"	80	12" - 24"	1.18" x 5.90"	20,94	6	1	4	3

Capable of controlled rotation and being used with recycled water, the Primus is very innovative and effective.

The nozzle is built from hardened stainless steel and is extremely user friendly because it requires no lubrication or replacement of the internal parts for at least 1 year. A rotating head removes grease, light scale, and light roots combined with 3D fluid mechanics in the propulsion unit flush the debris out producing the best cleaning results!

TURBI-KLEANER 3D



P/N	Hose Con.	Minimum/GPM	Pipe Diameter	L x W Dimensions	lbs. Weight	Rear Jets	Front Jets	Radial Jets	# Tier
5030	1"	80	8" - 24"	10.43" x 5.43"	14.99	5	1	6	3

This original, high-performance rotating nozzle uses turbine technology to effectively clean sewer pipes and eliminate streaks. Assembled from hardened stainless steel, the rotating head has two different spray angles, one spray angle directly cleans the pipe wall while the second spray angle hits the turbine creating a pulsating effect. Rear propulsion jets help smoothly carry the nozzle down the pipe while the 3D fluid mechanics and one-piece ceramic inserts make this nozzle great for recycling water.

ROTOR NOZZLES



1350













1351



1357



1364

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 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

Three one-piece ceramic nozzle inserts located in the middle rotating section with spray angles of 90°/75°/60° will remove grease, dirt and light roots from the pipe. Rear propulsion jets help flush the material removed. The non-corrosive rotating center requires low maintenance as the rest of the nozzle is constructed hardened stainless steel.











FRONT PUSH ROTOR



1308













1309 | 1310

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
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

Another option offered by USB for pushing material forward is the Front Push Rotor nozzle. Made from stainless steel, this nozzle was designed to be used for laterals and other small pipes. Rear jets propel the nozzle in the pipe as front rotating jets move material forward while the additional rotating radial jets clean the interior circumference of the pipe thoroughly.

T-HAMMER



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1334	1 1/4"	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










An unbalanced middle rotor section causes the T-Hammer to generate vibration/impact in the pipe. This forceful action breaks deposits and other hard materials from plastic pipes. By adding turbine technology, it offers the capability to control the agitation. This nozzle can be used with recycled water, is constructed of hardened stainless steel and comes standard with one-piece ceramic inserts.

DANGER: This nozzle is for use in thick plastic pipes only!! NEVER use in clay, concrete or thin plastic pipes.

V-HAMMER



1337

 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

An unbalanced middle rotor section causes the Vibration nozzle to generate vibration/impact in the pipe. Once this forceful action breaks deposits and other hard materials up they are ready to be flushed out. Less aggressive options for the top cap section are also available.

WARNING: This nozzle is for use in thick plastic pipes only!! NEVER use in clay, concrete or thin plastic pipes.

MINI T-CUTTERS












1979 Wolf



1997 CL



1995 Mini Turbo

 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Turbine Jets	 # Tier
1979	1/2"	8	2" - 4"	3.38" x 1.37"	0,88	6	3	2
1995	1/2"	8	2" - 4"	3.07" x 1.37"	0,88	6	3	2
1997	1/2"	8	2" - 4"	3.54" x 1.37"	0,88	6	3	2

Mini T Cutters are high efficient turbine tools made from hardened stainless steel for small pipes that are effective in removing roots, deposits and opening blockages. Being small in size enables the Mini T Cutters to navigate around slight bends but most importantly the cutters can be reduced to 3/8" and 1/4" for lower pump outputs.

TURBO 0



One of the smallest chain cutters offered by USB, the Turbo 0 utilizes turbine technology and 3D fluid mechanics to deliver supreme cutting and cleaning power. Different cutting attachments for the chain make the removal of roots, grease and mineral deposits much easier. Guide skids for 4" and 6" are available. This cutter is constructed from hardened stainless steel, comes standard with one-piece ceramic nozzle inserts and is capable of being used with recycled water.

P/N	Hose Con.	Minimum/GPM	inch Pipe Diameter	L x W Dimensions	lbs. Weight	Rear Jets	Turbine Jets	# Tier
2000	1/2"	12	4" - 6"	3.39" x 1.96"	0,88	3	3	3

TURBO 0 - SPECIAL CASE



2050

Turbo 0 CASE KIT

Includes:

- 4" Guide Skid
- 4" Chain retainer w/chain and bits
- 6" Guide Skid
- 6" Chain retainer w/chain and bits
- Tools for cutter

TURBO 0 - ACCESSORIES



2001 Guide skid 4"
2003 Guide skid 6"



2010M chain retainer w/ chain and bits 4"
2012M chain retainer w/ chain and bits 6"



2010S Chain w/blocks 4"
2012S Chain w/blocks 6"



2035 Slide thru chain retainer



2038 Block for chain



2020 4ft Replacement chain

TURBO I



The Turbo I rigid chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. This cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, and mineral deposits do not stand a chance against the Turbo I. Rigid skids are available from 4" to 6". The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water.

Barcode P/N	Hose Con.	Minimum/GPM	inch Pipe Diameter	L x W Dimensions	lbs. Weight	Rear Jets	Turbine Jets	# Tier
2100	1/2" / 3/4"	14	4" - 6" ****	5.51" x 2.36"	2,64	3	3	3

TURBO I - SPECIAL CASE



P/N
2150

Turbo I CASE KIT

Includes:

- 4" Guide Skid
- 4" Chain retainer w/chain and bits
- 6" Guide Skid
- 6" Chain retainer w/chain and bits
- Tools for cutter

TURBO I - ACCESSORIES



- 2101** Guide skid 4"
- 2103** Guide skid 6"



- 2110M** Chain retainer w/chain and bits 4"
- 2112M** Chain retainer w/chain and bits 6"



- 2110S** Chain w/blocks 4"
- 2112S** Chain w/blocks 6"



- 2136** Slide thru chain retainer



- 2138** Block for chain



- 2120** 4ft Replacement chain



- 2160** Diamond face cutter 4"
- 2164** Diamond face cutter 6"












- 2168** Center cap for face cutter



- 2170** Diamond barrel cutter 4"
- 2172** Diamond barrel cutter 5"
- 2175** Cap for barrel

TURBO II RIGID



 P/N	2250 - chain cutter w/one guide skid, tool box, one set of chains w/bits and tools for the cutter	
 Hose Con.	3/4", 1"	
 Minimum/GPM	30	
 L x W	9.05" x 5.31"	
 lbs.	6,61	
 Pipe Diameter	6" - 12" - Guide Skids sold separately	
 Rear Jets	 Turbine Jets	 Tier
3	3	3

The Turbo II rigid chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. This cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, and mineral deposits do not stand a chance against the Turbo II. Rigid skids are available from 6" - 12". The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water.

TURBO II RIGID - ACCESSORIES



- 2251** Guide skid 6"
- 2252** Guide skid 8"
- 2253** Guide skid 10"
- 2254** Guide skid 12"



- 2210M** 3 Piece set of chain w/bits 6"
- 2211M** 3 Piece set of chain w/bits 8"
- 2212M** 3 Piece set of chain w/bits 10"
- 2213M** 3 Piece set of chain w/bits 12"



- 2210S** 3 Piece set of chain w/T-Hammer bits 6"
- 2211S** 3 Piece set of chain w/T-Hammer bits 8"
- 2212S** 3 Piece set of chain w/T-Hammer bits 10"
- 2213S** 3 Piece set of chain w/T-Hammer bits 12"



- 2238** T-Hammer bit

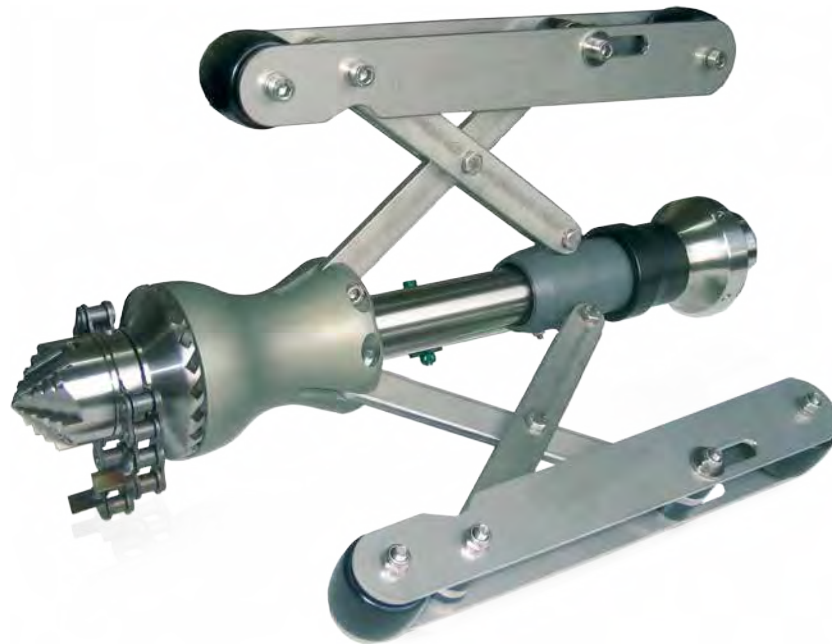











- 2210D** 3 Piece set of chain w/diamond bits 6"
- 2211D** 3 Piece set of chain w/diamond bits 8"
- 2212D** 3 Piece set of chain w/diamond bits 10"
- 2213D** 3 Piece set of chain w/diamond bits 12"



- 2220** 6ft Replacement chain

TURBO II FLEXIBLE



 P/N	2200 - chain cutter w/tool box, one set of chains w/bits and tools for the cutter	
 Hose Con.	3/4", 1"	
 Minimum/GPM	40	
 L x W Dimensions	16.92" x 5.31"	
 lbs. Weight	16,09	
 Pipe Diameter	6" - 12"	
 Rear Jets	 Turbine Jets	 Tier
3	3	3

The Turbo II flexible chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. Made from high quality stainless steel and aluminum, this cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, mineral deposits and protruding taps do not stand a chance against this impressive cutter. The flexible guide skid is adjustable between 6" - 12" within a 1/16" making it capable of handling offsets in the pipe. The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water as well.

TURBO II FLEXIBLE - ACCESSORIES



- 2210M** 3 Piece set of chain w/bits 6"
- 2211M** 3 Piece set of chain w/bits 8"
- 2212M** 3 Piece set of chain w/bits 10"
- 2213M** 3 Piece set of chain w/bits 12"



- 2210S** 3 Piece set of chain w/T-Hammer bits 6"
- 2211S** 3 Piece set of chain w/T-Hammer bits 8"
- 2212S** 3 Piece set of chain w/T-Hammer bits 10"
- 2213S** 3 Piece set of chain w/T-Hammer bits 12"



- 2210D** 3 Piece of chain w/diamond bits 6"
- 2211D** 3 Piece of chain w/diamond bits 8"
- 2212D** 3 Piece of chain w/diamond bits 10"
- 2213D** 3 Piece of chain w/diamond bits 12"



- 2220** 6ft Replacement chain



- 2236** Slid thru chain retainer



- 2260** Diamond face cutter 6"
- 2262** Diamond face cutter 8"



- 2265** Center cap for face cutter 6"
- 2268** Center cap for face cutter 8"












- 2270** Diamond tap cutter 6"
- 2272** Diamond tap cutter 8"
- 2275** Cap for barrel



- 2295** Pulling eye swivel

TURBO S 400



 P/N	2500 - chain cutter w/tool box, one set of chains w/bits and tools for the cutter
 Hose Con.	3/4", 1"
 Minimum/GPM	50
 L x W Dimensions	21.15" x 7.08"
 lbs. Weight	26,45
 Pipe Diameter	8" - 16" up to 24" w/extension kit sold separate
 Rear Jets	3
 Turbine Jets	3
 Tier	3

The Turbo S400 flexible chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. Made from high quality stainless steel and aluminum, this heavy-duty cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, mineral deposits and protruding taps do not stand a chance against this impressive cutter. The flexible guide skid is adjustable between 8" - 16" within a 1/16" **making it capable of handling offsets in the pipe.** An extension kit increases the cutters operation up to 24". The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water.

TURBO S 400 - ACCESSORIES



- 2510M** 3 Piece set of chain w/bits 8"
- 2511M** 3 Piece set of chain w/bits 10"
- 2512M** 3 Piece set of chain w/bits 12"
- 2513M** 3 Piece set of chain w/bits 15"
- 2514M** 3 Piece set of chain w/bits 18"
- 2515M** 3 Piece set of chain w/bits 21"
- 2516M** 3 Piece set of chain w/bits 24"



- 2510D** 3 Piece set of chain w/diamond bits 8"
- 2511D** 3 Piece set of chain w/diamond bits 10"
- 2512D** 3 Piece set of chain w/diamond bits 12"
- 2513D** 3 Piece set of chain w/diamond bits 15"
- 2514D** 3 Piece set of chain w/diamond bits 18"
- 2515D** 3 Piece set of chain w/diamond bits 21"
- 2516D** 3 Piece set of chain w/diamond bits 24"



- 2510S** 3 Piece set of chain w/T-Hammer bits 8"
- 2511S** 3 Piece set of chain w/T-Hammer bits 10"
- 2512S** 3 Piece set of chain w/T-Hammer bits 12"
- 2513S** 3 Piece set of chain w/T-Hammer bits 15"
- 2514S** 3 Piece set of chain w/T-Hammer bits 18"
- 2515S** 3 Piece set of chain w/T-Hammer bits 21"
- 2516S** 3 Piece set of chain w/T-Hammer bits 24"



- 2538** T-Hammer bit



- 2536** Slid thru chain retainer



- 2520** 6ft Replacement chain



- 2548** Pulling eye swivel

TURBO III



2300

 P/N	2300 - chain cutter w/tool box, one set of chains w/bits and tools for the cutter
 Hose Con.	3/4", 1", 1 1/4"
 Minimum/GPM	50
 L x W Dimensions	28.34" x 9.25"
 lbs. Weight	44,09
 Pipe Diameter	10" - 20" up to 32" w/extension kit sold separate
 Rear Jets	3
 Turbine Jets	3
 Tier	3

The Turbo III flexible chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. Made from high quality stainless steel and aluminum, this heavy-duty cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, mineral deposits and protruding taps do not stand a chance against this impressive cutter. The flexible guide skid is adjustable between 10" - 20" within a 1/16" **making it capable of handling offsets in the pipe.** An extension kit increases the cutters operation up to 32". The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water.

TURBO III - ACCESSORIES



- 2310M** 3 Piece set of chain w/bits 10"
- 2311M** 3 Piece set of chain w/bits 12"
- 2312M** 3 Piece set of chain w/bits 15"
- 2313M** 3 Piece set of chain w/bits 18"
- 2314M** 3 Piece set of chain w/bits 20"
- 2315M** 3 Piece set of chain w/bits 24"
- 2316M** 3 Piece set of chain w/bits 28"
- 2317M** 3 Piece set of chain w/bits 30"
- 2318M** 3 Piece set of chain w/bits 32"



- 2310D** 3 Piece set of chain w/diamond bit 10"
- 2311D** 3 Piece set of chain w/diamond bit 12"
- 2312D** 3 Piece set of chain w/diamond bit 15"
- 2313D** 3 Piece set of chain w/diamond bit 18"
- 2314D** 3 Piece set of chain w/diamond bit 20"
- 2315D** 3 Piece set of chain w/diamond bit 24"
- 2316D** 3 Piece set of chain w/diamond bit 28"
- 2317D** 3 Piece set of chain w/diamond bit 30"
- 2318D** 3 Piece set of chain w/diamond bit 32"



- 2310S** 3 Piece set of chain w/T-Hammer bits 10"
- 2311S** 3 Piece set of chain w/T-Hammer bits 12"
- 2312S** 3 Piece set of chain w/T-Hammer bits 15"
- 2313S** 3 Piece set of chain w/T-Hammer bits 18"
- 2314S** 3 Piece set of chain w/T-Hammer bits 20"
- 2315S** 3 Piece set of chain w/T-Hammer bits 24"
- 2316S** 3 Piece set of chain w/T-Hammer bits 28"
- 2317S** 3 Piece set of chain w/T-Hammer bits 30"
- 2318S** 3 Piece set of chain w/T-Hammer bits 32"



- 2336** Slid thru chain retainer



- 2320** 6ft Replacement chain 16B
- 2330** 6ft Replacement chain 12 B



- 2604** Extension skids up to 32"
- 2370** Extension skids for Egg Shaped Pipe



- 2362** Chain retainer wheel small w/6 tabs for 12B and 16B up to 32"












- 2340** Diamond tap cutter 10"
- 2342** Diamond tap cutter 12"
- 2343** Cap for barrel cutter

TURBO S-600



2650

 P/N	2650 - chain cutter w/one set of chains w/bits and tools for the cutter
 Hose Con.	1", 1 1/4"
 Minimum/GPM	80
 Dimensions	29.52" x 10.23"
 Weight	77,16
 Pipe Diameter	12" - 24"
 Rear Jets	3
 Turbine Jets	6
 Tier	3

The Turbo S600 flexible chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. Made from high quality stainless steel and aluminum, this heavy-duty cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, mineral deposits and protruding taps do not stand a chance against this impressive cutter. The flexible guide skid is adjustable between 12" - 24" within a 1/16" **making it capable of handling offsets in the pipe.** The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water as well.

TURBO S-600 - ACCESSORIES



- 2610M** 3 Piece set of chain w/bits 12"
- 2611M** 3 Piece set of chain w/bits 15"
- 2612M** 3 Piece set of chain w/bits 18"
- 2613M** 3 Piece set of chain w/bits 20"
- 3614M** 3 Piece set of chain w/bits 24"



- 2610S** 3 Piece set of chain w/blocks 12"
- 2611S** 3 Piece set of chain w/blocks 15"
- 2612S** 3 Piece set of chain w/blocks 18"
- 2613S** 3 Piece set of chain w/blocks 20"
- 2614S** 3 Piece set of chain w/blocks 24"



- 2610D** 3 Piece set of chain w/diamond bits 12"
- 2611D** 3 Piece set of chain w/diamond bits 15"
- 2612D** 3 Piece set of chain w/diamond bits 18"
- 2613D** 3 Piece set of chain w/diamond bits 20"
- 2614D** 3 Piece set of chain w/diamond bits 24"



- 2620** 6ft Replacement chain



- 2636** Slide thru chain retainer



- 2638** Block for chain



- 2639** Diamond bit












- 2637** Quick change chain retainer



- 2698** Pulling eye swivel

TURBO IV



 P/N	2350 - chain cutter w/one set of chains w/bits and tools for the cutter	
 Hose Con.	1" or 1 1/4"	
 Minimum/GPM	80	
 L x W	Dimensions 39.37" x 14.96"	
 lbs.	Weight 99,2	
 inch	Pipe Diameter 15" - 36"	
 Rear Jets	 Turbine Jets	 Tier
3	6	3

The Turbo IV flexible chain cutter was engineered to be powerful, durable, user friendly and require low maintenance. Made from tempered stainless steel and aluminum, this heavy-duty cutter uses turbine technology in combination with 3D fluid mechanics to deliver unmatched cutting performance in its operating range. Roots, grease, mineral deposits and protruding taps do not stand a chance against this impressive cutter. The flexible guide skid is adjustable between 15" - 36" within a 1/16" **making it capable of handling offsets in the pipe.** An extension kit increases the cutters operation up to 48". The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water as well.

TURBO IV - ACCESSORIES



- 2355M** 3 Piece set of chain w/bits 15"
- 2356M** 3 Piece set of chain w/bits 18"
- 2357M** 3 Piece set of chain w/bits 20"
- 2358M** 3 Piece set of chain w/bits 24"
- 2359M** 3 Piece set of chain w/bits 28"
- 2360M** 3 Piece set of chain w/bits 30"
- 2361M** 3 Piece set of chain w/bits 32"
- 2362M** 3 Piece set of chain w/bits 36"



- 2354D** 3 piece set of chain w/diamond bits 15"
- 2355D** 3 piece set of chain w/diamond bits 18"
- 2356D** 3 piece set of chain w/diamond bits 20"
- 2357D** 3 piece set of chain w/diamond bits 24"
- 2358D** 3 piece set of chain w/diamond bits 28"
- 2359D** 3 piece set of chain w/diamond bits 30"
- 2360D** 3 piece set of chain w/diamond bits 32"
- 2361D** 3 piece set of chain w/diamond bits 36"



- 2338** Block for chain



- 2339** Diamond bits



- 2320** 6ft Replacement chain



- 2362M** Chain retainer wheel small w/6 tabs for 12B and 16B up to 36"












- 2364S** Chain retainer wheel large w/6 tabs for 12B up to 48"



- 2398** Pulling eye swivel

TURBIKIT 3D












 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Turbine Jets	 #
2400	3/4" 1/2"	14	4" - 6"	5,90" x 2,36"	3,3	6	3	2

2410	6ft Replacement chain							
2411	3 Piece set of chain x 7 links							
2412	2 Piece set of chain x 9 links							
2413	3 Piece set of chain x 11 links							
2420	Replacement screws M6 x 6							

Open link chain is one difference that separates the Turbikit from other chain cutters offered by USB. Driven by a turbine technology, the high strength open link chain delivers extremely effective cutting power. The cutter can be used to remove roots and mineral deposits from the sewer pipe without a centralizing skid. The cutter comes standard with one-piece ceramic inserts, a high-pressure swivel and is capable of being used with recycled water.

PIPE WOLF NOZZLE 3D












 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Turbine Jets	 # Tier
1984	1 1/4"	80	8" - 24"	7.48" x 3.74"	11,9	6	3	3
1982	1"	60	6" - 15"	6.29" x 2.83"	5,73	6	3	3
1982,75	3/4"	30	6" - 12"	6.29" x 2.83"	5,73	6	3	3
1980	1/2"	12	4" - 8"	4.56" x 2.12"	2,42	6	3	3

The Pipe Wolf Nozzle 3D is an extremely aggressive specialty tool perfect for total blockages that are made from organic material. A hardened, tapered head with sharp edges utilizes turbine technology and spins approximately 10,000 rpm's boring a hole and opening up the blockage. This nozzle comes standard with one-piece ceramic inserts, can be used with recycled water and delivers in emergency situations so it is an essential tool to have!

DIAMOND FACE CUTTER 3D



2452











 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Turbine Jets	 # Tier
2453	1 1/4"	80	6" - 10"	5.74" x 3.74"	11,24	6	3	3
2452	1"	60	6" - 8"	4.92" x 2.87"	5,29	6	3	3
2451	3/4"	30	6" - 8"	4.92" x 2.87"	5,29	6	3	3
2450	1/2"	14	4" - 6"	3.85" x 2.24"	2,42	6	3	3

1986	Replacement head for Diamond Cutter No. 2450
1987	Replacement head for Diamond Cutter No. 2451 and 2452
1988	Replacement head for Diamond Cutter No. 2453

The Diamond Face cutter is an extremely aggressive specialty tool perfect for total blockages and some hardened mineral deposits. Turbine technology and 3D fluid mechanics spin a cutting head equipped with diamond bits and sharp edges approximately 10,000 rpm's boring a hole and opening the blockage. This nozzle comes standard with one-piece ceramic inserts, can be used with recycled water.

ROTOR WOLF



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
1974	1/2"	12	4" - 6"	7.67" x 1.57"	0,88	3	---	3	2
1975	1/4"	8	1" - 2"	2.75" x 1.18"	0,44	3	---	3	2
1976	3/8"	8	2" - 4"	2.75" x 1.18"	0,44	3	---	3	2
1977	1/4"	6	1" - 2"	1.65" x 0.78"	< .22	3	---	3	1

USB combined two nozzles to create the Rotor Wolf! Used in smaller pipes, the hardened tapered head with sharp edges effectively pierces and penetrates blockages fast. The middle 90° rotating jets spin the head as they clean the interior walls of the pipe.

RADIAL FLEX SKID













P/N	Hose Con.	Minimum/GPM	Pipe Diameter	L x W Dimensions	lbs. Weight	Rear Jets	Front Jets	Radial Jets	# Tier
5250	1 1/4"	80	20" - 48"	38.18" x 18.5"	72.75	3	---	4	2
5070	1" Nozzle extension								
5072	2" Nozzle extension								
5074	4" Nozzle extension								

Special controlled rotating nozzle with flexible guide skid for large diameter pipe up to 48". The 360 degree all around cleaning thoroughly removes hardened grease and some mineral deposits from the top of the pipe. Constructed from high quality stainless steel and aluminum this flexible skid is adjustable within a 1/16", very user friendly and capable of being used with recycled water.

HANDY CART










 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
2550	1 1/4"	80	40" and up	39.37" x 16.53"	88,18	5	6	4	2
5070	1" Nozzle extension								
5072	2" Nozzle extension								
5074	4" Nozzle extension								

Special controlled rotating nozzle with a robust transporter skid for various rectangular or large diameter pipe up to 16 feet. The 360 degree all around cleaning thoroughly removes hardened grease and some mineral deposits from the top of the pipe. Constructed from high quality stainless steel this Handy Cart is very user friendly, immediately ready for use.

EIBOW FLEX SKID



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
2555	1 1/4"	80	24" - 72"	---	55,11	5	---	4	2
5070	1" Nozzle extension								
5072	2" Nozzle extension								
5074	4" Nozzle extension								

Special controlled rotating nozzle with flexible guide skid for large egg shaped pipe up to 72". The 360 degree all around cleaning thoroughly removes hardened grease and some mineral deposits from the top of the egg shaped pipe. The start-of-the-art flexible skid is adjustable within a 1/16", very user friendly and capable of being used with recycled water.

SPIN-JET



5050












5052

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

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 two different versions, the Spin-Jet has driving nozzles that make the nozzle rotate in a 360° horizontal plane only. This action eliminates the need to cover the manhole during operation which allows 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.	 Rear Jets	 Front Jets	 Radial Jets	 # Tier
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

As the name states, **this nozzle is able to be steered and navigated into laterals and other branches.** By twisting your HP hose to the left or to the right you can direct the nozzle to where you want it.

SOFTBLASTER 3D



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs.	 Rear Jets	 Front Jets	 Radial Jets	 #
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

With a wide rear 37° degree spray angle, the Softblaster 3D nozzle is the perfect nozzle 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.

HIGH PRESSURE SWIVEL



P/N





Hose Con.

1650	1 1/4"	Swivel Joint male/female
1651	1"	Swivel Joint male/female
1652	3/4"	Swivel Joint male/female
1653	1/2"	Swivel Joint male/female

High Pressure Swivels are made from hardened stainless steel and allow for full water flow. HP swivels are made for bottom cleaners, nozzles for bigger pipe and cutters.

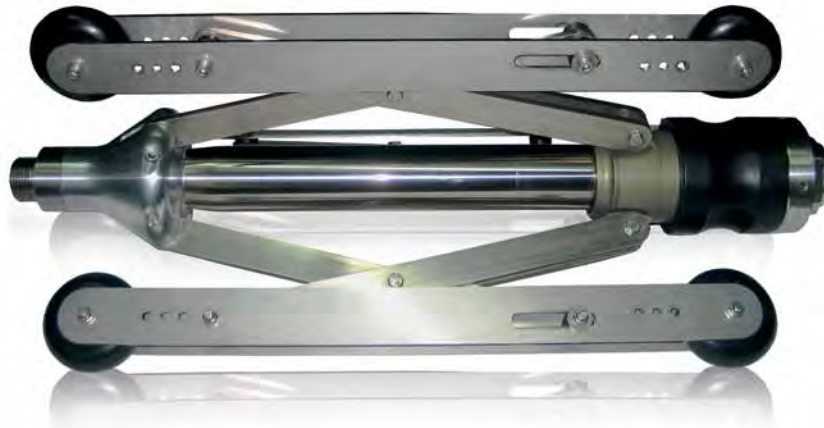
CROWN NOZZLE












 P/N	 Hose Con.	Jets	Suction Pipe Diameter
2730	1/2"	6	2.95/3.14"
2732	1/2"	6	3.93/4.33"
2734	1/2"	6	4.92/5.31"
2736	3/4"	6	5.9"

The Crown nozzle can be easily attached to the suction tube for hydro-excavation. Six powerful jets loosen and break up material which can then be effortlessly transported to the debris tank. The crown is constructed of hardened stainless hardened steel construction and has replaceable one-piece ceramic jets.

UNI-FLEX SKID



 P/N	 Hose Con.	 Minimum/GPM	 Pipe Diameter	 L x W Dimensions	 lbs. Weight	 Rear Jets	 Front Jets	 Radial Jets
2602	1"	N/A	10" - 20"	25.59" x 9.25"	33,06	3	---	---
2601	1"	N/A	6" - 12"	15.74" x 5.31"	15,43	3	---	---

Used for centralization in the pipe, the Universal Flex skid is continuously adjustable by 1/16" increments within its operating range. The front 1" NPT threads accommodate most cleaning, rotor and radial cleaning nozzles. The universal flex skid comes standard with a high-pressure swivel.

REDUCERS | COLLARS



ENLARGING COLLAR - STAINLESS STEEL

Barcode	Spring	Image
1810	1" male	x 1 1/4" female
1811	3/4" male	x 1" female
1812	1/2" male	x 3/4" female
1813	3/8" male	x 1/2" female
1814	1/4" male	x 1/2" female

REDUCER - STAINLESS STEEL

Barcode	Spring	Image
1820	1 1/4" male	x 1" female
1821	1" male	x 3/4" female
1822	3/4" male	x 1/2" female
1823	1/2" male	x 3/8" female
1824	3/8" male	x 1/4" female

DOUBLE NIPPLE - GALVANIZED

Barcode	Spring	Image
1830	1 1/4" male	x 1 1/4" male
1831	1 1/4" male	x 1" male
1832	1" male	x 1" male
1833	1" male	x 3/4" male
1834	3/4" male	x 3/4" male
1835	3/4" male	x 1/2" male
1836	1/2" male	x 1/2" male
1837	1/2" male	x 3/8" male
1838	3/8" male	x 1/4" male
1839	1/4" male	x 1/4" male
1840	1/4" male	x 1/8" male
1841	1/8" male	x 1/8" male

STRAIGHT COLLARS - STAINLESS STEEL

Barcode	Spring	Image
1850	1 1/4" male	x 1 1/4" female
1851	1" male	x 1" female
1852	3/4" male	x 3/4" female
1853	1/2" male	x 1/2" female
1854	3/8" male	x 3/8" female
1855	1/4" male	x 1/4" female

FEMALE TO FEMALE FITTING - GALVANIZED

Barcode	Spring	Image
1860	1 1/4" female	x 1 1/4" female
1861	1" female	x 1" female
1862	3/4" female	x 3/4" female
1863	1/2" female	x 1/2" female
1864	3/8" female	x 3/8" female
1865	1/4" female	x 1/4" female

SWIVEL FITTING - GALVANIZED

Barcode	Spring	Image
1870	1 1/4" male	x 1 1/4" female
1871	1 1/4" male	x 1" female
1872	1" male	x 1" female
1873	1" male	x 3/4" female
1874	3/4" male	x 3/4" female
1875	3/4" male	x 1/2" female
1876	1/2" male	x 1/2" female
1877	1/2" male	x 3/8" female
1878	3/8" male	x 3/8" female
1879	3/8" male	x 1/4" female
1880	1/4" male	x 1/4" female

TOOLS | ACCESSORIES



INSERT GAUGE



8000 0.45 - 1.5

8001 1.5 - 3.0

T-HANDLE WRENCH FOR ISK



8010 2,0

8011 2,5

8012 3,0

8013 4,0

8014 5,0

8015 6,0

8016 8,0

T-HANDLE WRENCH FOR ASK



8020 SW 6

8021 SW 8

8022 SW 9

8023 SW 10

8024 SW 12

8025 SW 14

8026 SW 17

AKTIVATOR

8050 Aktivator 200 ML



NOZZLE ADHESIVE

8055 medium strength blue 50 ml

8057 high strength, green 50 ml

ALLEN WRENCH



8040 2,0

8041 2,5

8042 3,0

8043 4,0

8044 5,0

8045 6,0

PUNCH FOR TURBO´S



8065 4,0

8067 5,0

8069 6,0

8070 8,0

8072 10,0

TEFLON

8080 Teflon 1 l



TEFLONSPRAY

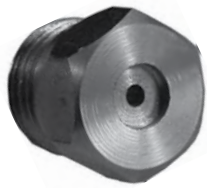
8082 Teflonspray 500 ml

8085 Teflonspray FIN SUPER 100 ml

CARE SPRAY

8095 Care spray 500 ml

NOZZLE INSERTS



Barcode	Thread	wrench size
1561	G 1/4"	SW 14
1563	M 10 x 1	SW 10
1564	G 1/8"	SW 14
1567	M 6	SW 6
1568	M 8	SW 8



Barcode	Thread	wrench size
1550	G 1/4"	SW 14
1551	G 1/4"	SW 9
1563 K	M 10 x 1	SW 10
1564 K	G 1/8"	SW 14
1527 AK	M 6	SW 6
1528 AK	M 8	SW 8



Barcode	Thread
1532	M 12
1528	M 8
1527	M 6
1526	M 5
1525	M 4



Barcode	Thread
1552	M 12
1529 K	M 10
1528 K	M 8
1527 K	M 6



Barcode	Thread
1572	G 1/4"
1576	G 1/4"



Barcode	Thread	wrench size
1573 K	G 1/4"	SW 14
1574 K	G 1/8"	SW 14
1575 K	M 10 x 1	SW 10

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 manufacturers 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 1 year for any physical nozzle or chain cutter that spins (Turbo chain cutter, Rotors, Primus etc..) and 3 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.

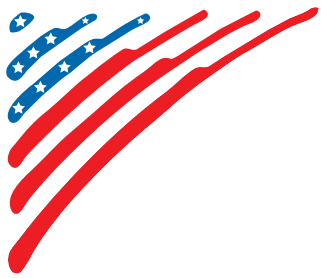
What does this limited warranty not cover?

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 the most appropriate solution for you.



USB-USA

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USB-USA

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