

Tube Cleaners



Tube Cleaners Table of Contents

Pg. Tube Cleaners		Tube Size	Tube Section	Type of Deposit	Thickness of Deposit	Deposit Flush	Tube Surface
2	5370 Jiffy Gun	3/8" to 3/4" (9.5 to 19.0mm) OD	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
3	537100C Jumbo Jiffy Gun	3/4" to 1-1/4" (19.0 to 31.8mm) OD	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
4	Jiffy Gun & Jumbo Jiffy Gun Spares & Accessories						
5	Soot Buster	1-3/4" to 3" (44.5 to 76.2mm) OD	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
5	Soot Buster Spares & Accessories						
6	Roto-Jet I	0.312" to 2.000" (7.9 to 50.8mm) ID	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
6	Roto-Jet II	0.312" to 2.000" (7.9 to 50.8mm) ID	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
7	Roto-Jet I & II Spares & Accessories						
11	Die-Hard™ Cableless Tube Cleaner	3/4" and 1" (19.1 to 25.4mm) OD	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	○ Medium ● Heavy	● Dry	● Enhanced
12	Die-Hard™ Spares & Accessories						
14	5224XL Heat Exchanger Cleaner	3/8" to 1" (9.5 to 25.0mm) ID	● Straight	○ Soft, Gummy	○ Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	● Medium ● Heavy	● Dry	○ Enhanced
15	5125 Heat Exchanger Cleaner	1/2" to 2" (12.7 to 50.0mm) ID	● Straight	○ Soft, Gummy	○ Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	● Medium ● Heavy	○ Dry	○ Enhanced
16	Heat Exchanger Cleaner Spares & Accessories						
18	Turbine Style Straight Tube Cleaners	0.495" to 13.225" (12.6 to 43.9mm) ID	● Straight	○ Soft, Gummy	○ Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	● Medium ● Heavy	● Dry	● Enhanced
26	Turbine Style Curved Tube Cleaners	0.791" to 13.225" (20.1 to 54.0mm) ID	● Straight	○ Soft, Gummy	○ Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	● Medium ● Heavy	● Dry	● Enhanced
33	Turbine Style Straight & Curved Tube Cleaner Spares & Accessories						
40	Turbine Style Aluminum Siphon Tube Cleaners	2.875" to 3.500" (73.0 to 89.9mm) ID	● Straight	● Soft, Gummy	● Light	● Wet	● Prime
			○ Curved	● Hard Powder ● Rock Solid	● Medium ● Heavy	● Dry	● Enhanced

● -Recommended

○ -Suitable

5370 Jiffy Gun

Tube Size

- 3/8" to 3/4"
(9.5 to 19.0mm) OD

Tube Section

- Straight

Deposit

- Soft, gummy,
or organic

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Wet

The Jiffy Gun is powered by an air and water combination to propel Elliott Tool's wide range of reusable shoot through devices. Soft deposits such as mud and algae are removed from the tube in seconds!

Elliott's Jiffy Gun Tube Cleaning Systems are the preferred tools for cleaning condenser tubes in power utility plants, pulp, paper, steel mills and petrochemical plants.



Features & Benefits:

- Tapered nozzle covers wide range of sizes eliminating need for multiple nozzle sizes.
- Utilizes reusable shoot through devices for lower cost.

Specifications:

- 45-90 PSI (3.1-6.2 bar) Air Pressure
- 45-90 PSI (3.1-6.2 bar) Water Pressure
- Weight: 3 lbs./1.36 Kg.
- The Jiffy Gun accommodates tube OD sizes 3/8" to 3/4" (9.5 to 19mm). For larger diameter tubes use 537100C Jumbo Jiffy Gun.

How To Order:

1. Specify tube size(s) to be cleaned.
2. Choose spares and accessories.

The 5370 Jiffy Gun Kit comes complete with:

- Jiffy Gun with Tapered Nozzle
- 7-1/2' (2.3M) Water Hose Whip
- 7-1/2' (2.3M) Air Hose Whip
- Carrying Case

Tube OD		Kit Number
Inch	mm	
3/8" - 5/8"	9.5 - 15.9	5370K1
3/4"	19.0	5370K2

Spares & Accessories:

- 5371CL Lexan Shield (Requires 5370JG Nozzle Adapter and 537058 Shield Adapter)
- Tapered Nozzle
- P5370N15 Hose 15' (4.6M) Long
- P5370N25 Hose 25' (7.6M) Long
- P5370N50 Hose 50' (15.2M) Long
- P5370N100 Hose 100' (30.5M) Long

See page 4 for Elliott Tool's complete offering of shoot through devices.

537100C Jumbo Jiffy Gun

Tube Size

- 3/4" to 1-1/4"
(19.0 to 31.8mm) OD

Tube Section

- Straight

Deposit

- Soft, gummy, or organic

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Wet

The Jumbo Jiffy Gun is powered by an air and water combination to propel Elliott's wide range of reusable shoot through devices. Soft deposits such as mud and algae are removed from the tube in seconds!

Jumbo Jiffy Gun Tube Cleaning Systems are the preferred tools for cleaning condenser tubes in power utility plants, pulp, paper, steel mills and petrochemical plants.



Features & Benefits:

- Tapered nozzle covers wide range of sizes eliminating need for multiple nozzle sizes.
- Utilizes reusable shoot through devices for lower cost.
- Cleans without damaging tubes.
- On board pet cock to relieve pressure in clogged tubes.

Specifications:

- 45-90 PSI (3.1-6.2 bar) Air Pressure
- 50 PSI (3.4 bar) Water Pressure maximum
- Weight: 3.5 lbs./1.6 Kg
- The Jumbo Jiffy Gun accommodates tube OD sizes 3/4" to 1-1/4" (19.0 to 31.8mm). For smaller diameter tubes use 5370 Jiffy Gun.

How To Order:

1. Specify tube size(s) to be cleaned (See table on right).
2. Choose spares and accessories.

The 5371CK Series Jumbo Jiffy Gun Kit comes complete with:

- Jumbo Jiffy Gun and Tapered Nozzle Assembly (Tapered Nozzle, Nozzle Adapter, and Lexan Shield)
- Pressure Relief Valve
- 7-1/2' (2.3M) Water Hose Whip
- 7-1/2' (2.3M) Air Hose Whip
- Carrying Case

Spares & Accessories:

- 5371CL Lexan Shield
- Tapered Nozzle (See table on right.)
- 5371NA Nozzle Adapter
- P5371N15 Air Hose Whip 15' (4.6M) Long
- P5371N25 Air Hose Whip 25' (7.6M) Long
- P5371N50 Air Hose Whip 50' (15.2M) Long
- P5371N100 Air Hose Whip 100' (30.5M) Long
- P5224-12-15 Water Hose Whip 15' (4.6M) Long
- P5224-12-25 Water Hose Whip 25' (7.6M) Long
- P5224-12-50 Water Hose Whip 50' (15.2M) Long
- P5224-12-100 Water Hose Whip 100' (30.5M) Long

Tube OD		Kit Number
Inch	mm	
3/4"	19	5371CK1
7/8"-1"	22-25	5371CK2
1-1/8"-1-1/4"	28-32	5371CK3

Tube OD		Tapered Nozzle
Inch	mm	
3/4"	19	5371-12
7/8"-1"	22-25	5371-1416
1-1/8"-1-1/4"	28-32	5371-1820

See page 4 for Elliott Tool's complete offering of shoot through devices.

Jiffy Gun & Jumbo Jiffy Gun Accessories

Shoot Through Cleaners

Thickness of Deposit	Application Notes	Scrubber Series	
Light	Commonly used for soft and organic deposits	5022 Series	
Medium	Commonly used for gummy deposits	5521 Series	

How To Order:

1. Specify tube size(s) to be cleaned.
2. Determine quantity needed. *Recommendation provided at the bottom of table below.*

5022 Shoot Through Brush						
Tube OD	BWG	Part #	BWG	Part #	BWG	Part #
3/8" (9.5mm)	18	5022-287				
	19	5022-302				
	20	5022-317				
	21-22	5022-328				
1/2" (12.7mm)	12	5022-302	16	5022-380	20	5022-445
	13	5022-328	17	5022-396	21-22	5022-460
	14	5022-342	18	5022-417		
	15	5022-365	19	5022-428		
5/8" (15.9mm)	12	5022-417	16	5022-510	20	5022-573
	13	5022-445	17	5022-524	21-22	5022-580
	14	5022-472	18	5022-542		
	15	5022-495	19	5022-556		
3/4" (19.1mm)	12	5022-542	16	5022-638	20	5022-703
	13	5022-573	17	5022-654	21-22	5022-715
	14	5022-602	18	5022-674		
	15	5022-625	19	5022-686		
7/8" (22.2mm)	12	5022-674	16	5022-767	20	5022-832
	13	5022-703	17	5022-782	21-22	5022-845
	14	5022-730	18	5022-802		
	15	5022-750	19	5022-815		
1" (25.4mm)	12	5022-802	16	5022-897	20	5022-955
	13	5022-832	17	5022-912	21-22	5022-975
	14	5022-858	18	5022-932		
	15	5022-882	19	5022-945		
1-1/8" (28.6mm)	12	5022-932	16	5022-1025	20	5022-1091
	13	5022-955	17	5022-1041	21-22	5022-1091
	14	5022-985	18	5022-1057		
	15	5022-1010	19	5022-1076		
1-1/4" (31.8mm)	12	5022-1057	16	5022-1153	20	5022-1200
	13	5022-1091	17	5022-1160	21-22	5022-1200
	14	5022-1120	18	5022-1191		
	15	5022-1140	19	5022-1191		
Recommend quantity of 1 per 4 tubes						

5521 Hard Plastic Scrubber		
Tube OD	BWG	Part #
3/4" (19.1mm)	18	5521-750-18
	20	5521-750-20
	22	5521-750-22
7/8" (22.2mm)	18	5521-875-18
	20	5521-875-20
	22	5521-875-22
1" (25.4mm)	18	5521-1000-18
	20	5521-1000-20
	22	5521-1000-22
1-1/4" (31.8mm)	18	5521-1250-18
Recommend quantity of 1 per 4 tubes		

Tube Size

- 1-3/4" to 3"
(44.5 to 76.2mm) OD

Tube Section

- Straight

Deposit

- Soft (Soot)

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Dry

Soot Buster M5784-00, for cleaning firetube boilers, is a pneumatically actuated cleaning tool that propels itself inside of tubes at 1.5 feet per second and scrubs the tube ID with each pulse. Simply insert it into the tube and the unique oscillating action of the attached brush will drive the cleaner to the end of the tube. When it senses the end of the tube, it reverses the direction of thrust and returns to the operator. With a capability of cleaning 60 tubes per hour, the time required to clean a firetube boiler or oil field drill pipe is greatly reduced.

Features & Benefits:

- The operator stays completely dry.
- Lightweight and compact design that reduces operator fatigue.
- Rugged construction with no plastic gears or parts for long lasting cleaning action.
- Significant job savings from fast set-up and operation.
- Higher operator satisfaction provides increased productivity.
- Low initial and ongoing investment.
- Set-up is fast:
 - No cables to arrange.
 - Only set-up issue is the brush size.
- Cleaning takes half the time as rotary cleaning:
 - Auto-feed is standard feature.
 - Reverses at tube end without need to "measure-off" the tube.
- No down time with broken cables or shafts.



Specifications:

- Air Requirements:
 - 25 CFM (0.71 M³/min.) @ 100 PSI (6.9 bar)
 - Minimum 60 PSI (4.1 bar)
 - Maximum 150 PSI (10.3 bar)

How To Order:

1. Select the M5784-00 Soot Buster package.
2. Select the brush from the table below for tube size being cleaned (for additional sizes contact Customer Service).
3. Determine the brush quantity needed.
4. Choose spares & accessories.

The M5784-00 Soot Buster package is furnished with the following items:

- Pneumatic air pulsator motor
- Pneumatic foot control valve
- Filter/lubricator with pressure gauge
- Y-tube for vacuum hose
- 33 ft. (10M) air source hose
- 33 ft. (10M) heavy-duty pulsator motor hose
- 16-1/2 ft. (5M) filter/lubricator air hose

Part #	Brushes
26B15D	1-3/4" (44.5mm) OD Brush for 2" (50.8mm) X 10 BWG
26B16F	1-7/8" (47.6mm) OD Brush for 2" (50.8mm) X 12 BWG
26B20F	2-3/8" (60.3mm) OD Brush for 2-1/2" (63.5mm) X 10-12 BWG
26B24A	2-7/8" (73mm) OD Brush for 3" (76.2mm) X 10-12 BWG
Recommend quantity of 1 brush per 50 tubes	

See the Soot Buster in action!

Visit www.elliott-tool.com/sootbuster

Spares & Accessories		Part #	Description
Vacuums 		08520	110V/60 Hz, 115 CFM for dry or wet service 20 gallon capacity, 13 AMPS, 2 HP, 08522 10' suction hose included
		08520-220	220V/50 Hz, 115 CFM for dry or wet service 20 gallon capacity, 7 AMPS, 2 HP, 08522 10' suction hose included
		08510	Paper Filter Bag (3 per pkg.)
		08509	Cloth Filter Bag
		08511	Canvas Filter Bag
Suction Hoses 		08540	10 feet (3.0M) long- 2" (50.8mm) Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff
		08541	15 feet (4.6M) long- 2" (50.8mm) Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff
		08542	25 feet (7.6M) long- 2" (50.8mm) Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff

Roto-Jet I & II Tube Cleaning Systems

Tube Size

- 0.312" to 2.000"
(7.9 to 50.8mm) ID

Tube Section

- Straight
- Curved

Deposit

- Soft, gummy, or organic

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Wet
- Dry

Elliott Tool Roto-Jet Cleaning Systems are an effective solution to increasing chiller, condenser, and other heat exchanger efficiency.

Elliott Tool offers a variety of Roto-Jet Tube Cleaners to suit your specific application needs:

- Roto-Jet I Series: Electric heavy duty models 0620AR (110V) and 0820AR (220V) are ideal for mechanical contractors that perform tube cleaning on a regular basis. Equipped with a 1 HP motor, these cleaners are powerful yet simple to use due to their reversing capability.
- Roto-Jet II Series: Electric models 0650R (110V) and 0750R (220V) are recommended for operating sites such as hospitals, schools, and other institutions that perform tube cleaning on a periodic basis. Equipped with a 1/2 HP motor, these cleaners are economical and reversible, making them easy to operate and handle.
- Pneumatic Roto-Jet: Model 0420 is a pneumatic tube cleaner with a powerful 4 HP motor to clean tubes where electricity is not readily available. The 0420 is perfect for tube cleaning performed in power utility plants and paper, steel, and sugar mills.

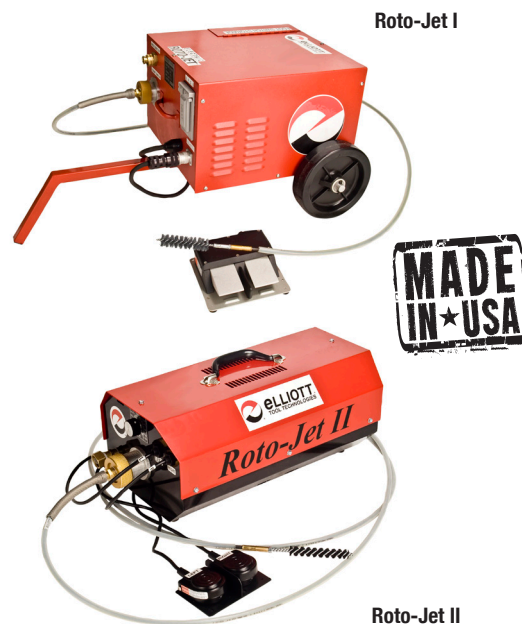
All of the Roto-Jet Tube Cleaning Systems use flexible shafts and cleaning tools to flush deposits free from the tubes, enabling you to increase heat transfer efficiencies while reducing your heat transfer costs.

Specifications:

Part #	Voltage	Reversible	RPM	Dimensions		Weight		Tube ID	
				Inch	mm	Lbs.	Kg.	Inch	mm
0620AR	110	Yes	850	17 X 15 X 10.5	432 X 381 X 267	63	29	0.250-3.000	6.35-76.2
0820AR	220	Yes	850	17 X 15 X 10.5	432 X 381 X 267	63	29	0.250-3.000	6.35-76.2
0650R	110	Yes	0-1800	11 X 20 X 9	280 X 508 X 229	35	16	0.250-1.000	6.35-25.4
0750R	220	Yes	0-1800	11 X 20 X 9	280 X 508 X 229	35	16	0.250-1.000	6.35-25.4
Part #	Air Req.	Reversible	RPM	Dimensions		Weight		Tube Size	
				Inch	mm	Lbs.	Kg.	Inch	mm
0420	138 CFM @100 PSI	No	0-2500	21.5 X 10.25 X 10.5	546 X 261 X 267	48	22	0.250-3.000	6.35-76.2

Spares & Accessories:

- See pages 7-9 for Elliott Tool's complete offering of flexible shafts, couplings, brushes, and other spares & accessories.



Features & Benefits:

- Heavy duty shaft for cleaning heavy deposits.
- Flexible shaft with water flush for removal of deposits in curved tubes.
- Storage compartment for foot pedal, controls, & supplies.
- Light weight and sized for confined work spaces.
- Uses standard flex shafts for easy maintenance.
- Ground fault isolation for increased operator safety.
- Roto-Jet II (220V) is CE mark certified.

How To Order:

1. Specify the desired Roto-Jet from the table below.
2. Choose the desired shafts and cleaning tools on pages 7-9.

Roto-Jet I & II Accessories Shafts & Couplings

Moisture

Wet

Application Notes

Commonly used in chillers, watertube boilers, and other applications where water does not inhibit cleaning. Never operate wet shafts without water flushing through the shaft's casing.

Dry

Commonly used in firetube boilers and sugar mill cleaning.

How To Order:

1. Specify tube size(s) to be cleaned.
2. Select deposit flush type: Wet or Dry.
3. Specify the shaft length desired (for additional sizes contact Customer Service).
4. Determine quantity needed.
5. Choose spares & accessories.



Flexible Wet Shaft



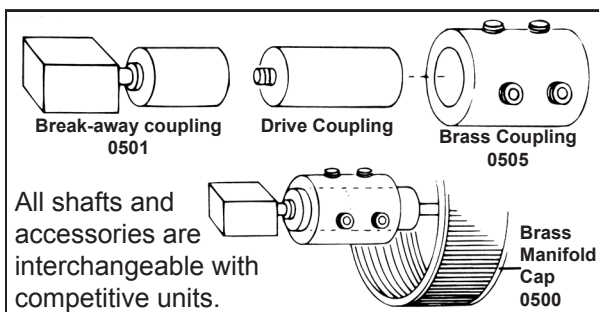
Flexible Dry Shaft

Wet Shaft												
Tube ID		Flexible Shaft Part #'s Lengths								Shaft Case Diameter		Female Tool Coupling Thread
Inch	mm	Ft	Mtrs	Ft	Mtrs	Ft	Mtrs	Ft	Mtrs	Inch	mm	
		15	4.5	25	7.6	35	10.7	50	15.2			
0.312-0.375	8-10	051115		051125		051135		051150		0.250	6	*#6-32
0.437-0.500	11-13	051215		051225		051235		051250		0.375	10	1/4"-28
0.562-1.000	14-25	051315		051325		051335		051350		0.500	13	
0.750-1.500	19-38	0514A15		0514A25		0514A35		0514A50		0.625	16	
1.000-2.000	26-50	051415		051425		051435		051450		0.750	19	1/2" WHIT
2.000+	50+	051515		051525		051535		051550		1.000	25	
Dry Shaft												
1.000-2.000	26-50	053415		053425		053435		53450				1/2" WHIT

* Adapter 5100 AC included with 0511 shafts to convert to #8-32 thread.

Spares & Accessories:

- Break-Away Coupling: Another Elliott innovation that will extend the shaft life. While this break-away coupling is sold individually, it can also be purchased in a pack of 10. The part number is 0501-10.
- Solid Coupling: While this solid coupling is sold individually, it can also be purchased in a pack of 10. The part number is 0502-10.
- Drive Coupling
- Tool Coupling
- Flexible Shaft Repair Kits:
 - Kits include (3)Coupling Adapters, (3)Tool Couplings, (1)Brass Coupling, (3)Shaft Washers, (1)Male Connector, (3) O Rings, (1)Crimping Block (on K1 kits only). Specify 0511, 0512, and 0513 shaft and add K1 to kits with Crimping Block and K2 to kits without, example 0512K2.



Recommended Spare Flexible Shaft Components				
Shaft Size	Drive Coupling	Break-Away Coupling	Solid Coupling	Tool Coupling
0511	0516	3/4" (19 mm)	0502	0513
0512	0503	0501	0502	0504
0513	0506	0501	0502	0507
0514A	0514-3			0514-1
0514	0508			0509
0515	0510			0511
0534	0508			0509

Roto-Jet I & II Accessories

Brushes

Type of Deposit	Thickness of Deposit	Tube Material	Tube Surface	Cleaning Type	Series #	
Scale	Light (Soot)	Ferrous	Prime	Dry	0904 Steel Wire	
Mud	Light	Ferrous	Prime	Wet	0941 Nylon	
Scale	Light	Ferrous	Prime	Wet	0942 Stainless	
Scale	Light	Non-Ferrous	Prime	Wet	0942B Brass	
Scale	Light	Ferrous & Non-Ferrous	Enhanced	Wet	5508 Turbo	
Scale	Light	Ferrous & Non-Ferrous	Prime	Wet	5510 Turbo	
Scale	Light to Medium	Ferrous & Non-Ferrous	Prime	Wet	5513 Turbo	
Light Scale	Light	Ferrous	Prime	Wet	0954 Flex Hones	
Scale	Medium	Ferrous	Prime	Wet	0947 Descale With Drill	
Scale	Medium	Ferrous	Prime	Wet & Dry	0946 Descale No Drill	
Mud	Medium to Heavy	Ferrous & Non-Ferrous	Prime	Wet	5502 HD Nylon	
<i>Recommend 1 brush for every 50 tubes to be cleaned</i> <i>Recommend 1 descaling tool for every 500 tubes to be cleaned</i>						
<i>Ferrous materials include: steels, titanium, hastelloy</i> <i>Non-Ferrous materials include: copper, brass, bronze, aluminum</i>						

How To Order:

1. Specify tube size(s) to be cleaned.
2. Choose brush size: Typically, the brush ID is equal to the tube ID - see tables on next page. For brush series 5502, 0941, 0942B, and 0942 size the brush ID equal to or 0.062" (1.6mm) below the tube ID.
3. Determine quantity needed. While all brushes are sold individually, brush series 0941, 0942B, and 0942 can be purchased in packs of ten. The part number is simply the individual brush's part number with a '-10' at the end.
4. Choose spares & accessories.

Roto-Jet I & II Accessories

Brushes (continued)

Brush Diameter		Male Thread Size	Shaft Size	Brush Part #'s						
Inch	mm			0941 Nylon	0942 Stainless	0942B Brass	5508 Turbo	5510 Turbo	0954 Flex Hone	5502 HD Nylon
0.250	6.35	6-32	0511	0941250	0942250	0942B250		5510-8 1/2" Brush Dia.		*5502-250
0.312	7.92	6-32	0511	0941312	0942312	0942B312			0954-312	*5502-312
0.375	9.53	6-32	0511	0941375	0942375	0942B375			0954-375	*5502-375
0.437	11.10	1/4-28	0512	0941437	0942437	0942B437	5508-12	5510-12 3/4" Brush Dia.	0954-437	5502-437
0.500	12.70	1/4-28	0512	0941500	0942500	0942B500			0954-500	5502-500
0.562	14.27	1/4-28	0512/0513	0941562	0942562	0942B562			0954-562	5502-562
0.625	15.88	1/4-28	0512/0513	0941625	0942625	0942B625	5508-16	5510-16 1" Brush Dia.	0954-625	5502-625
0.687	17.45	1/4-28	0513	0941687	0942687	0942B687			0954-687	5502-687
0.750	19.05	1/4-28	0513	0941750	0942750	0942B750			0954-750	5502-750
0.812	20.62	1/4-28	0513	0941812	0942812	0942B812	5508-18	5510-18 1-1/8" Brush Dia.		5502-812
0.875	22.22	1/4-28	0513	0941875	0942875	0942B875			0954-875	5502-875
0.937	23.80	1/4-28	0513	0941937	0942937	0942B937				5502-937
1.000	25.40	1/4-28	0513	09411000	09421000	0942B1000		5510-20 1-1/4" Brush Dia.	0954-1000	5502-1000
1.062	26.97	1/4-28	0513	09411062	09421062	0942B1062				
1.125	28.58	1/4-28	0513	09411125	09421125	0942B1125				
1.187	30.15	1/4-28	0513	09411187	09421187	0942B1187				
1.250	31.75	1/4-28	0513	09411250	09421250	0942B1250				
1.312	33.32	1/4-28	0513	09411312	09421312	0942B1312				
1.437	36.50	1/4-28	0513	09411437	09421437	0942B1437				
1.500	38.10	1/4-28	0513	09411500	09421500	0942B1500				

* 5502 brushes must use adapter 5100AC (included with 0511 shafts).

Brush Diameter		Male Thread Size	Brush Part #'s	
Inch	mm		0904 Steel Wire	5513 Turbo
0.750	19.05	1/2 WHIT	0904750	
0.875	22.22	1/2 WHIT	0904875	
1.000	25.40	1/2 WHIT	09041000	
1.125	28.58	1/2 WHIT	09041125	
1.250	31.75	1/2 WHIT	09041250	
1.375	34.50	1/2 WHIT	09041375	
1.500	38.10	1/2 WHIT	09041500	5513-24
1.625	42.55	1/2 WHIT	09041625	
1.750	44.45	1/2 WHIT	09041750	5513-28
1.875	47.63	1/2 WHIT	09041875	
2.000	50.80	1/2 WHIT	09042000	5513-32

Brush Diameter		Male Thread Size	0904 Steel Wire
Inch	mm		
2.125	53.98	1/2 WHIT	09042125
2.250	57.15	1/2 WHIT	09042250
2.375	60.33	1/2 WHIT	09042375
2.500	63.50	1/2 WHIT	09042500
2.625	66.68	1/2 WHIT	09042625
2.750	69.85	1/2 WHIT	09042750
2.875	73.03	1/2 WHIT	09042875
3.000	76.20	1/2 WHIT	09043000
3.125	79.38	1/2 WHIT	09043125
3.250	82.55	1/2 WHIT	09043250
3.375	85.72	1/2 WHIT	09043375
3.500	88.90	1/2 WHIT	09043500

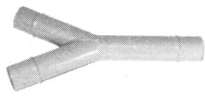
Descaling Tools						
Tube ID		Descaling Tool	Descaling Tool w/ Drill Tip	Blade Refills	Male Thread	Recommended Shaft
Inch	mm					
0.312-0.375	7.92-9.53	09461	09471	0946RF2	8-32*	0511
0.375-0.500	9.53-12.70	09462	09472	0946RF2	1/4-28	0512
0.500-0.625	12.70-15.88	09463	09473	0946RF3	1/4-28	0513
0.625-1.000	15.88-25.40	09464	09474	0946RF4	1/4-28	0514A
1.000-3.000	25.40-76.20	09465	09475	0946RF5	1/2 WHIT	0514

*Requires adapter 5100AC (included with 0511 shafts).

Roto-Jet I & II Accessories

Vacuum Accessories



Vacuums and Accessories		Part #	Description
Vacuums		08520	110V/60 Hz, 115 CFM for dry or wet service 20 gallon capacity, 13 AMPS, 2 HP, 08522 10' suction hose included
		08520-220	220V/50 Hz, 115 CFM for dry or wet service 20 gallon capacity, 7 AMPS, 2 HP, 08522 10' suction hose included
		08509	Cloth Filter Bag
		08510	Paper Filter Bag (3 per pkg.)
		08511	Canvas Filter Bag
Suction Adapter		0970A	For combination cleaning and vacuum extraction *Nozzle adapter see below. Sold separately.
		08540	10 feet (3M) long Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff
		08541	15 feet (4.6M) long Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff
		08542	25 feet (7.6M) long Diameter: 2" (50.8mm) includes 2" Hose to 1-1/2" Tool Cuff
Nozzles			Diameter: 7/8" thru 3-1/2" (22.2 thru 88.9mm) in 1/8" (3.2mm) increments
		0901 (Dia.)	Standard
		0902 (Dia.)	18" (457.2mm) Offset
		0903 (Dia.)	18" (457.2mm) Extension
		08536	2" x 56" (50.8 x 1422.4mm) Wand
		08537	5" (127mm) Dusting Brush
		08539	6" (152.4mm) Aluminum Utility Tool
		08529	2" (50.8mm) "Y" Adapter

Die-Hard™ Cableless Tube Cleaner

Tube Size

- 3/4" and 1"
(19.1 and 25.4mm) OD

Tube Section

- Straight

Deposit

- Soft, gummy, or organic

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Wet

Cleans better in less time.

Elliott Tool's Die-Hard™ is the first cableless tube cleaner that successfully cleans light to medium deposits found in chiller, condenser, and heat exchanger tubes.

Water pressure is utilized instead of a spinning cable to provide the power for the brushing action. A patented pulse-jet actuator with brush provides a quad cleaning action to flush tube debris such as scale, mud, and algae out the back end of the tube. The Die-Hard™'s quad cleaning action enables you to be more productive while getting tubes cleaner!

Specifications:

- 110/1/60 electric, 14 amps
- 0.5 GPM water consumption
- 10 pulses / second ~ 800 PSI
- Hydro powered brush actuator

The M5801-00 Die-Hard™ Cleaner Package includes:

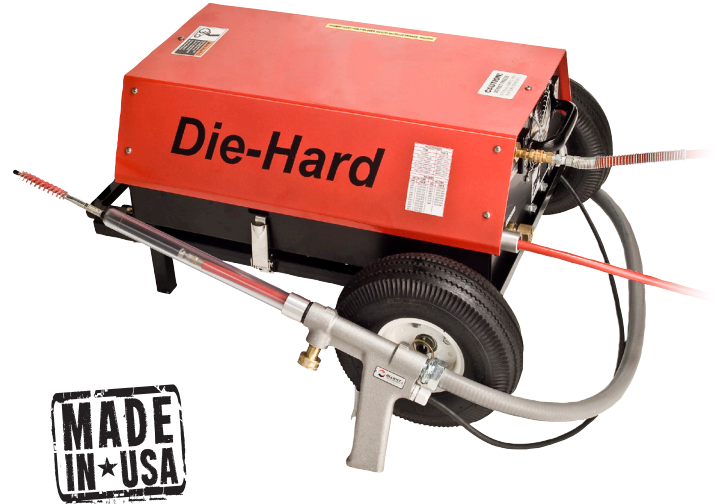
- M5801-01 Auto-Feed Pump Unit
- M5801-02-45 45 ft. (13.7M) Auto-Feed Hose (includes M5801-03-03 Auto-feed Casing)
- M5801-03T Trigger Switch Feed Gun Assembly (includes M5808-00 Trigger Switch Feed Gun and M5801-03-01 3/4" (19.1mm) and M5801-03-02 1" (25.4mm) Gun Nozzles)
- M5801-04 Actuator (0.520" OD)
- M5803-02 Antifreeze w/ Adapter
- (2) M5801-09 3/8-7/16 Combination Wrenches
- Brushes sold separately.

Features & Benefits:

- Cleans better in less time.
- No cable! That's right - never spend time or money on replacement flex shafts or cables again.
- Rugged engineering and construction for higher uptime and lower repair costs.
- Three feet/second auto feed for high productivity.
- Ergonomic design for lower labor costs and higher operator satisfaction.
- Quad cleaning action for better cleaning and productivity.

How To Order:

1. Determine Tube ID. Tube ID is to be measured past the expanded portion of the tube. Choose appropriate brush from the table on next page.
2. Determine quantity of brushes needed.
3. Choose spares and accessories.



See the Die-Hard™ in action!
Visit www.elliott-tool.com/die-hard

Die-Hard™ Cableless Tube Cleaner

Spares & Accessories

Spares & Accessories:

- Detachable Contractor Dolly (M5807-00) makes the Die-Hard™ easy to move about the job site.
- Rocker Style Footswitch (M5801-10) is available for operators who prefer to use their foot to actuate the tube cleaner.
- Spares Kit (M5803-00) includes five nylon brushes of 20 different sizes for 3/4" and 1" tubes, one actuator (M5801-04), and one 0.5 gallon of antifreeze with adapter (M5803-02) - all organized in a toolbox. For 7/8" applications Elliott offers the M5803-00-875 Spare Brush Kit that includes five nylon brushes of 5 different sizes.
- Tool Box Expansion Tray (M5803-01-02): Add a spare tray to the bottom of the Spares Kit Toolbox to include any additional items you may need on the job.
- Antifreeze with Adapter (M5803-02): Protect your Die-Hard™ during the cold weather storage with antifreeze.
- Trigger Switch Feed Gun (M5808-00)
- Actuator (M5801-04): Elliott recommends 1 for every 20,000 tubes.
- Feed Hose: Available in 35 ft (M5801-02-35) and 45 ft (M5801-02-45). Other sizes available.
- Auto-feed Casing (M5801-03-03)
- Gun Nozzle: Available in 3/4" (19.1mm) (M5801-03-01), 7/8" (22.23mm) (M5801-03-09) and 1" (25.4mm) (M5801-03-02) sizes.
- 3/4" and 1" Tube Hole Gauge (876200-750 and 876200-1000): Allows you to quickly and accurately measure your tube size to determine the necessary brush.



M5807-00 Detachable Contractor Dolly



M5801-10 Rocker Style Footswitch



M5803-00 Spares Kit



M5803-02 Antifreeze with Adapter

Die-Hard™ Cableless Tube Cleaner Brushes



Tube ID		Brush Diameter	Part #	
Inch	mm		Single Brush	25 Pack
0.530-0.544	13.46-13.82	0.530	5535-530	5535-530PK
0.545-0.559	13.84-14.20	0.545	5535-545	5535-545PK
0.560-0.572	14.22-14.53	0.560	5535-560	5535-560PK
0.573-0.589	14.55-14.96	0.573	5535-573	5535-573PK
0.590-0.607	14.99-15.42	0.590	5535-590	5535-590PK
0.608-0.624	15.44-15.85	0.608	5535-608	5535-608PK
0.625-0.637	15.88-16.18	0.625	5535-625	5535-625PK
0.638-0.651	16.21-16.54	0.638	5535-638	5535-638PK
0.652-0.665	16.56-16.89	0.652	5535-652	5535-652PK
0.666-0.679	16.92-17.25	0.666	5535-666	5535-666PK
0.680-0.694	17.27-17.63	0.680	5535-680	5535-680PK
0.695-0.709	17.65-18.01	0.695	5535-695	5535-695PK
0.740-0.754	18.80-19.15	0.740	5535-740	5535-740PK
0.755-0.769	19.18-19.53	0.755	5535-755	5535-755PK
0.770-0.784	19.56-19.91	0.770	5535-770	5535-770PK
0.785-0.799	19.94-20.29	0.785	5535-785	5535-785PK
0.800-0.819	20.32-20.80	0.800	5535-800	5535-800PK
0.820-0.839	20.83-21.31	0.820	5535-820	5535-820PK
0.840-0.859	21.34-21.82	0.840	5535-840	5535-840PK
0.860-0.879	21.84-22.33	0.860	5535-860	5535-860PK
0.880-0.899	22.35-22.83	0.880	5535-880	5535-880PK
0.900-0.915	22.86-23.24	0.900	5535-900	5535-900PK
0.916-0.932	23.27-23.67	0.916	5535-916	5535-916PK
0.933-0.943	23.70-23.95	0.933	5535-933	5535-933PK
0.944-0.956	23.98-24.28	0.944	5535-944	5535-944PK
Recommend quantity of 1 brush per 150-500 tubes				
Note: Do not use other brushes with your Die-Hard™ Cleaner.				



5224XL Heat Exchanger Cleaner

Tube Size

- 3/8" to 1"
(9.5 to 25.0mm) ID

Tube Section

- Straight

Deposit

- Soft, gummy, or organic
- Hard powder
- Rock solid

Thickness of Deposit

- Light
- Medium
- Heavy

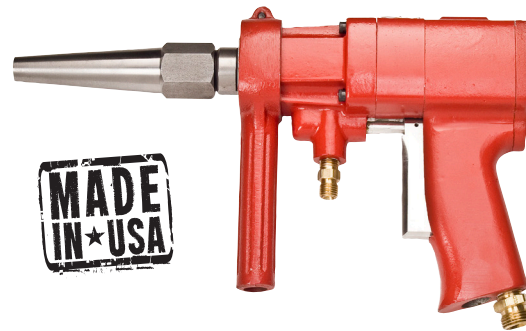
Deposit Flush

- Wet
- Dry

Elliott Tool's Heat Exchanger Tube Cleaners utilize a rigid shaft to provide high torque cleaning to remove hard deposits often found in heat exchanger tubes. These cleaners are ideal for use in sugar mills, paper mills, chemical plants, and oil refineries.

The trigger-operated cleaner features an air-powered motor that remains external to the tube, providing a powerful rotary motion to the shaft and cleaning tool. The 5224XL utilizes water flush operation to wash away all those loose deposits.

Air purge models are also available for any cleaning application where water flush can not be used. Contact Customer Service for details.



Features & Benefits:

- High torque for hard or gummy deposits.
- Standard model features water flush operation, convenient for flushing away loose deposits.
- Light weight and powerful.
- Safer & much less expensive than water blasting.

How to Order:

1. Specify tube size(s) to be cleaned.
2. Select deposit flush type:
 - Water Purge (5224XL50)
 - Air Purge (5224XLBM50)
3. Choose spares & accessories.

5224XL Tube Cleaner Kit comes complete with:

- Cleaner Motor
- Set of Vanes
- Wrench
- 7-1/2 ft. (2.3M) Hose Whip
- Motor Coupling
- 5 ft. (1.5M) Motor Shaft
- (3) 5 ft. (1.5M) Extension Shafts (includes connectors)
- Filter-Lubricator
- Carrying Box

Specifications:

- 1,500 RPM
- 3/4" (19.0mm) Air Hose Supply
- 45 CFM (1.3 M³/min.) @ 90 PSI (6.2 bar)
- 50 PSI (3.4 bar) Water Pressure
- Motor Weight: 6 lbs./2.72 Kg.

Spares & Accessories:

- P5370N 7-1/2 ft. (2.3M) Water Hose Whip
- P5224-12 7-1/2 ft. (2.3M) Air Hose Whip
- See pages 16-17 for shafts, couplings, brushes, drills, and other spares & accessories.

5125 Heat Exchanger Cleaner

Tube Size

- 1/2" to 2"
(12.7 to 50.0mm) ID

Tube Section

- Straight

Deposit

- Soft, gummy, or organic
- Hard powder
- Rock solid

Thickness of Deposit

- Light
- Medium
- Heavy

Deposit Flush

- Wet
- Dry

Elliott Tool's Heat Exchanger Tube Cleaners utilize a rigid shaft to provide high torque cleaning to remove hard deposits often found in heat exchanger tubes. These cleaners are ideal for use in sugar mills, paper mills, chemical plants, and oil refineries.

The trigger-operated cleaner features an air-powered motor that remains external to the tube, providing a powerful rotary motion to the shaft and cleaning tool. The 5125 utilizes water flush operation to wash away all those loose deposits.

Air purge models are also available for any cleaning application where water flush can not be used. Contact Customer Service for details.



Features & Benefits:

- Heavy duty motor ideal for refineries.
- High torque for hard or gummy deposits.
- Standard model features water flush operation, convenient for flushing away loose deposits.
- Safer & much less expensive than water blasting.

Specifications:

- 1,600 RPM
- 1" (25.0mm) Filtered Air Hose Supply
- 175 CFM (5.0 M³/min.) @ 90 PSI (6.2 bar)
- 50 PSI (3.4 bar) Water Pressure
- Motor Weight: 35 lbs./15.9 Kg

How to Order:

1. Specify tube size(s) to be cleaned.
2. Choose spares & accessories.

5125 Tube Cleaner Kit comes complete with:

- Cleaner Motor
- Wrench
- Hex Key
- Set of Paddles
- 15 ft. (4.6M) Water Feed Hose
- Motor Coupling
- 5 ft. (1.5M) Motor Shaft
- (3) 5 ft. (1.5M) Extension Shaft (includes connectors)
- Lubricator

Spares & Accessories:

- 835200-25 25 ft. (7.6M) Air Hose Whip
- 835200-50 50 ft. (15.2M) Air Hose Whip
- 512513 Paddles (1 set)
- See pages 16-17 for shafts, couplings, brushes, drills, and other spares & accessories.

5224XL and 5125 Accessories Shafts and Couplings

Elliott Tool offers a number of shafts and couplings to be used with the 5224XL and 5125 Heat Exchanger Tube Cleaners to accommodate different tube sizes and tube lengths.

Motor Coupling- Connects Motor to Motor Shaft



Motor Shaft- Connects Motor Coupling to the Extension Coupling



Extension Coupling- Connects Motor Shaft to the Extension Shaft



Extension Shaft- Extends the Reach of the Cleaning Tool by 5' (1.5M)



Drill or Brush

How To Order Tube Cleaner Shafting, Accessories, Drills, and Brushes:

- Measure the tube ID behind the tube sheet in the unrolled area.
- Measure the length of the tube(s) to be cleaned.
- Identify the type of deposit to be removed (Hard, Soft, Gummy or Powder).
- Select proper type and size drill and/or brush for the deposit being removed. See table on opposite page.
- Select proper sized Motor Coupling, Motor Shaft, Gaskets (two included with each Extension Coupling), Extension Couplings, and Extension Shafts.
- It is recommended to brush the tubes after they are cleaned to remove any residual debris and to polish the tube ID's.

Note: Although Motor Shafts are available in lengths of up to 18 feet (5.5M) they are not readily available. Motor and Extension shafting are readily available in 5' (1.5M) and 10' (3M) lengths for handling, storage and shipping purposes.

Tube ID Range		Shaft OD	Motor Coupling Part #	*Motor Shaft Part #	**Extension Coupling Gasket Part #	Extension Coupling Part #	Extension Shaft Part #
Inch	mm						
0.370-0.407	9.40-10.32	5/16" (7.9mm)	5213C	5213-(FT)			
0.435-0.459	11.05-11.66	3/8" (9.5mm)	5214C	5214-(FT)		501406	5014-(FT)
0.481-0.560	12.22-14.22	7/16" (11.1mm)	5215C	5215-(FT)	P5034A	CS113106	5015-(FT)
0.584-0.685	14.83-16.56	1/2" (12.7mm)	5216C	5216-(FT)	P5034B	CS113206	5016-(FT)
0.709-0.810	18.01-20.57	5/8" (15.9mm)	5218C	5218-(FT)	P5034C	CS113406	5018-(FT)
0.834-0.902	21.18-22.91	3/4" (19.1mm)	5219C	5219-(FT)	P5034D	CS113506	5059-(FT)

*Note: * Specify shaft length in feet. ** Included with each Extension Coupling, except where noted.
For Additional Lengths and Sizes Contact Customer Service*

5224XL and 5125 Accessories Drills and Brushes



Twist Drill



These drills are carbide tipped for hard deposits



Fulfilled Brush



For Powder Deposits and Polishing



Tube ID		CT Drill	El Paso Drill	Drill Tip**	Drill Tip Coupling	Twist Drill**	Twist Drill Coupling	Fulfilled Brush*	Cleaning Shaft OD		
Inch	mm										
0.370	9.40	5029-359	5005-359	NA	NA	NA	NA	5024A22	5/16" (7.94 mm)		
0.384	9.75							5024A24			
0.402	10.21	5029-390	5005-390					5024B26		3/8" (9.52 mm)	
0.407	10.32							5226B28			
0.435	11.05	5029-422	5005-422	5100-422	5100B	5172-426	5100B	5024B26	3/8" (9.52 mm)		
0.459	11.66	5029-446						5226B28			
0.481	12.22	5029-446A	5005-468	5100-468	5100C	5172-475	5100C	5226C28	7/16" (11.10 mm)		
0.495	12.57	5029-480	5005-480	5100-480				5226C30			
0.509	12.93			5226C32							
0.527	13.39	5029-512	5005-512	5100-512		5172-507		5226C34			
0.532	13.51			5100-544							
0.560	14.22										
0.584	14.83	5029-568	5005-568	5100-568	5100D	5172-564	5100P	5226D36	1/2" (12.70 mm)		
0.606	15.39					5172-600		5226D38			
0.620	15.75	5029-604	5005-604	5100-604				5226D40			
0.634	16.10				5100E	5172-632		5226D42		5/8" (15.88 mm)	
0.652	16.56	5029-640	5005-640	5100-640		5172-689		5226D44			
0.657	16.69					5172-725	5226D46				
0.685	17.40										
0.709	18.01	5029-691	5005-691	5100-691	5100F	5172-725	5100E	5226D44	5/8" (15.88 mm)		
0.731	18.57							5172-757		5226D48	
0.745	18.92	5029-727	5005-727	5100-727		5226D50					
0.759	19.28				5100G	5172-814		5100Y	5226E52	3/4" (19.05 mm)	
0.777	19.74	5029-759	5005-759	5100-759					5172-850		5226E54
0.782	19.86			5100-790	5172-882	5226E64					
0.810	20.57										
0.834	21.18	5029-812	5005-812	5100-812	5100G	5172-814	5100Y		5226E52		3/4" (19.05 mm)
0.856	21.74							5172-850	5226E54		
0.870	22.09	5029-848	5005-848	5100-848		5172-882		5226E64			
0.884	22.45										
0.902	22.91	5029-880	5005-880	5100-880					5226E64		

Recommend one drill/brush for every 50 tubes

Note: * Brush standard material is steel, brushes are also available in brass and stainless steel materials.

** Requires Drill Coupling

Other size drills and brushes are also available, contact Customer Service for details

Spares & Accessories:

- Drill Couplings: Must be used with drill tips and twist drills.

Turbine Style Straight Tube Cleaners

D600 Series

Tube Size

- 0.495" to 1.730"
(12.6 to 43.9mm) ID

Tube Section

- Straight

Deposit

- Soft, gummy, or organic
- Hard powder

Thickness of Deposit

- Light
- Medium

Deposit Flush

- Dry

Elliott Tool's D600 Series Air Turbine Style Straight Tube Cleaners are ideal for 0.495" to 1.730" ID tubes (12.57mm to 43.94mm) commonly found in heat exchangers.

The air turbine style motor design provides an immediate and powerful startup to drive the cleaning head down the tube at a high speed, removing light to medium deposits of scale, mud, and other process residues.



Features & Benefits:

- Powerful motor design allows for immediate motor startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

Specifications:

- 11-26 CFM (0.3-0.7 M³/min.) @ 80 PSI (5.5 bar)

How to Order:

1. Specify tube size(s) to be cleaned. D600 Series Kits vary upon tube ID size.
See table on opposite page for the kit required for your tube size.
2. Choose cleaning head, other spares, & accessories.

Spares & Accessories:

- Spares and accessories vary by tube ID size.
See table on page 33 for details.
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve

Turbine Style Straight Tube Cleaners

D600 Series 0.495" to 1.730" (12.6 to 43.9mm) Inside Diameter

Tube ID Range		Cleaner Package	Motor Part # & Motor Diameter	Universal Coupling	Threaded Cone Cutter	Adapter	Brush	Flexible Holder	Operating Hose	Package Weight	
Inch	mm									lbs.	Kg.
0.495-0.513	12.57-13.03	D669-15-1	D66900-15 0.468" (11.87mm)		16509	8431A	3323-6*	420000	833000-25P	7	3
0.514-0.532	13.06-13.51						3323-8*				
0.533-0.609	13.54-15.47	D669-15-2									
0.610-0.687	15.49-17.45	D670-18-1	D67000-18 0.562" (14.27mm)	L69100	19768	8431B	3324-8*	420000BB	P833000-25		
0.688-0.729	17.48-18.52	D670-18-2					3324-10				
0.730-0.778	18.54-19.76	D671-22-1	D67100-22 0.688" (17.48mm)	L69300	16526	8434C	350000	420100	833100-25P	8	4
0.779-0.850	19.79-21.59	D671-22-2			17702		350200				
0.851-0.900	21.62-22.86	D671-22-3					350400				
0.901-0.950	22.89-24.13	D671-22-4					350600				
0.951-1.000	24.16-25.40	D673-28-1	D67300-28 0.875" (22.23mm)	L69400	19062	8436A	350800	420100BC	1004-25P	10	4.5
1.001-1.040	25.43-26.42	D673-28-2					351000				
1.041-1.072	26.44-27.23	D673-28-3			19840						
1.073-1.138	27.25-28.91	D673-28-4									
1.139-1.206	28.93-30.63	D675-34-1	D67500-34 1.062" (26.97mm)	L69500	19076	8436C	351200	420100BC	1004-25P	14	6
1.207-1.230	30.66-31.24	D675-34-2					351400				
1.231-1.256	31.27-31.90	D675-34-3					351600				
1.257-1.321	31.93-33.55	D675-34-4					351800				
1.322-1.400	33.58-35.56	D675-40-1	D67500-40 1.250" (31.75mm)	L69600	313500 Single Pin Head Cutter		352000	420200BD	1009-25P	16	7
1.401-1.450	35.59-36.83	D675-40-2					352200				
1.451-1.484	36.86-37.69	D675-40-3									
1.485-1.563	37.72-39.70	D678-46-1									
1.564-1.635	39.73-41.53	D678-46-2	D67800-46 1.438" (36.53mm)	L76200A	313600 Single Pin Head Cutter		352400	420300DF	1009-25P	20	9
1.636-1.675	41.55-42.55	D678-46-3			313700 Single Pin Head Cutter		352600				
1.676-1.700	42.57-43.18	D678-46-4					352800				
1.701-1.730	43.21-43.94										

* -Type "ST" brush available in other sizes and for curved tubes. Contact Customer Service for details.

Note: Operating hoses are also available in 50 ft. sizes. Contact Customer Service for details.

D669-15-1 and D669-15-2 Cleaner Package Contains:

- (1) Air Motor
- (1) Set of Paddles
- (5) Threaded Cone Cutter
- (2) Adapters
- (2) Type "ST" Brush
- (1) Flexible Holder
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

D670-18-1 and D670-18-2 Cleaner Package Contains:

- (1) Air Motor
- (1) Set of Paddles
- (5) Threaded Cone Cutters
- (2) Adapters
- (2) Type "ST" Brush
- (1) Flexible Holder
- (1) Universal Coupling
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

D671-22-1 to D675-34-3 Cleaner Package Contains:

- (1) Air Motor
- (1) Set of Paddles
- (5) Threaded Cone Cutters
- (2) Adapters
- (1) Expanding Brush
- (1) Set of Brush Refills
- (1) Flexible Holder
- (1) Universal Coupling
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

D675-40-1 to D678-46-4 Cleaner Package Contains:

- (1) Air Motor
- (1) Set of Paddles
- (2) Single Pin Head Cutters
- (1) Expanding Brush
- (1) Set of Brush Refills
- (1) Flexible Holder
- (1) Universal Coupling
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

Turbine Style Straight Tube Cleaners

1300 Series

Tube Size	Tube Section	Deposit	Thickness of Deposit	Deposit Flush
● 1.750" to 3.999" (44.5 to 101.6mm) ID	● Straight	● Hard powder ● Rock solid	● Medium ● Heavy	● Dry

Elliott Tool's 1300 Series Air Turbine Style Straight Tube Cleaners are ideal for 1.750" to 3.999" ID (44.5mm to 101.6mm) commonly found in firetube and watertube boilers.

The air turbine style motor design provides an immediate and powerful startup to drive the cleaning head down the tube at a high speed, removing medium to heavy deposits of scale, mud, and other process residues.

Features & Benefits:

- Powerful motor design allows for immediate motor startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

How to Order:

1. Specify tube size(s) to be cleaned. 1300 Series Kits vary upon tube ID size.
See table on page opposite page for the kit required for your tube size.
2. Choose cleaning head, other spares, & accessories.

Spares & Accessories:

- Spares and accessories vary by tube ID size. *See table on page 33 for details.*
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve



Specifications:

- 65-135 CFM (1.8-3.8 M³/min.) @ 80 PSI (5.5 bar)

Turbine Style Straight Tube Cleaners

1300 Series

Tube ID Range		Cleaner Package	Motor Diameter		Motor Part #	Cutter Head	Expanding Brush	Operating Hose	Package Weight	
Inch	mm		Inch	mm					lbs.	Kg.
1.750-1.999	44.45-50.77	D77S-1	1.500	38.10	D7700-1500	H63500	352900	1006-25P	10	4.5
1.781 - 1.820	45.24 - 46.23	D77S-2					1.781 - 1.820			
1.821 - 1.880	46.25 - 47.75	D77S-3					1.821 - 1.880			
1.881 - 1.920	47.78 - 48.77	D77S-4					1.881 - 1.920			
1.921 - 1.970	48.79 - 50.04	D77S-5					1.921 - 1.970			
1.971 - 1.999	50.06 - 50.77	D77S-6					1.971 - 1.999			
2.000-2.249	50.80-57.12	D448S-1	1.812	46.02	D44800-1812	H63600	353500A	1006-25P	16	7.3
2.051 - 2.100	52.10 - 53.34	D448S-2					353600A			
2.101 - 2.150	53.37 - 54.61	D448S-3					353700A			
2.151 - 2.249	54.64 - 57.12	D448S-4					P770A			
2.250-2.499	57.15-63.47	1374S-1	2.125	53.98	137400D2125	336000	N770A	1007-25P	17	7.7
2.500-2.749	63.50-69.82	1364S-1	2.375	60.33	136400D2375	336100	R770		19	8.6
2.750-2.999	69.85-76.17	1342S-1	2.625	66.68	134200D2625		T770			
3.000-3.249	76.20-82.52	1393S-1	2.875	73.03	139300D2875	336200	V770	1007-25P	20	9.1
3.250-3.499	82.55-88.87	1325S-1	3.000	76.20	132500D3000	336300	V770A		23	10.4
3.500-3.749	88.90-95.22	1325S-2				336400			Y770A	33
3.750-3.999	95.25-101.57	1325S-3								
Note: Operating hoses are also available in 50 ft. sizes. Contact Customer Service for details.										

D77S-1 and D448S-1 Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Quick-Repair Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins
- (1) Expanding Brush
- (1) Brush Adapter
- (1) Set of Brush Refills
- (1) Tool Box

1325S-1 to 1325S-3 Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Swing-Frame Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pin
- (1) Set of Arm Pins
- (1) Expanding Brush
- (1) Brush Adapter
- (1) Set of Brush Refills

1374S-1 to 1393S-1 Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Swing-Frame Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pin
- (1) Set of Arm Pins
- (1) Expanding Brush
- (1) Brush Adapter
- (1) Set of Brush Refills
- (1) Tool Box

Operating hoses are sold separately for these Cleaner Packages.

Turbine Style Straight Tube Cleaners

1100 Series

Tube Size	Tube Section	Deposit	Thickness of Deposit	Deposit Flush
● 2.250" to 13.225" (57.1 to 335.9mm) ID	● Straight	● Hard powder ● Rock solid	● Medium ● Heavy	● Dry

Elliott Tool's 1100 Series Air Turbine Style Straight Tube Cleaners are ideal for tubes 2.250" to 13.225" ID (57.2mm to 335.9mm) commonly found in process transfer lines.

The air turbine style motor design provides an immediate and powerful startup to drive the cleaning head down the tube at a high speed, removing medium to heavy deposits of scale, mud, and other process residues.

For tube ID range 6.250" to 13.225" (158.8mm to 335.9mm) air turbine motors will be equipped with motor sleeves to allow the use of small, lightweight motors, reducing the size of the operating hose required.

Features & Benefits:

- Powerful motor design allows for immediate startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

How to Order:

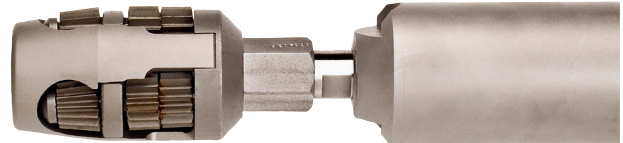
1. Specify tube size(s) to be cleaned. 1100 Series Kits vary upon tube ID size.

See table on opposite page for the kit required for your tube size.

2. Choose cleaning head, other spares, & accessories.

Spares & Accessories:

- Spares and accessories vary by tube ID size. *See table on page 33 for details.*
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve



Specifications:

- 80-200 CFM (2.3-5.7 M³/min.) @ 80 PSI (5.5 bar)

Turbine Style Straight Tube Cleaners

2.250" to 6.249" (57.1 to 158.7mm) Inside Diameter

1100 Series

Tube ID Range		Cutter Head Selection (Info on Page 33)			Cleaner Package	Motor Diameter		Motor Part #	Operating Hose	Package Weight		
Inch	mm					Type U0	Swing Frame			Type H2	Inch	mm
2.250-2.374	57.15-60.30	302900			1119UO-1	2.062	52.37	111900-2062	835100-25	15	6.8	
			337300		1119SF-1					17	7.2	
2.375-2.499	60.33-63.47	303000		L550	1119H2-1	2.312	58.72	112000-2312		18	8.2	
2.500-2.624	63.50-66.65				1119UO-2					19	8.6	
			337300		1120UO-1							
2.625-2.749	66.68-69.82	303200		L550	1120SF-1	2.562	65.07	112100-2562	835200-25	21	9.5	
2.750-2.874	69.85-73.00				1120H2-1					22	10.0	
					1120UO-2							
2.875-2.999	73.03-76.17	303400			1121UO-1	2.812	71.42	112200-2812		24	10.9	
				316100	1121SF-1							
3.000-3.249	76.20-76.17	303400			1121H2-1	3.062	77.77	112300-3062	835300-25	30	13.6	
				316300	1121UO-2					38	17.3	
3.250-3.499	82.55-88.87	303600			1121H2-2	3.250	82.55	112400-3250		45	20.4	
				337500	1122UO-1					50	22.7	
3.500-3.749	88.90-95.22	303600			1122SF-1	3.500	88.90	112500-3500	53	24.1		
				316300	1122H2-1				55	25.0		
3.750-3.999	95.25-101.57	303800			1124UO-1	3.750	95.25	112600-3750	58	26.3		
				337700	1124SF-1				75	34.1		
4.000-4.249	101.60-107.92	303800			1124H2-1	4.750	120.65	112800B4750	835400-25	80	36.3	
				316500	1125UO-1					95	43.1	
4.250-4.499	107.95-114.27	304000			1125SF-1	5.000	127.00	112800B4750		835400-25	80	36.3
				337300	1125H2-1						95	43.1
4.500-4.749	114.30-120.62	304000			1125H2-1	5.000	127.00	112800B4750	835400-25		80	36.3
				316300	1126UO-1						95	43.1
4.750-4.999	120.65-126.97	304200			1126SF-1	5.000	127.00	112800B4750		835400-25	80	36.3
				337700	1126H2-1						95	43.1
5.000-5.249	127.00-133.32	304200			1126H2-2	5.000	127.00	112800B4750	835400-25		80	36.3
				337900	1126UO-2						95	43.1
5.250-5.999	133.35-152.37	304400			1126UO-3	5.000	127.00	112800B4750		835400-25	80	36.3
				337900	1126SF-1						95	43.1
6.000-6.249	152.40-158.72	304400			1126H2-2	5.000	127.00	112800B4750	835400-25		80	36.3
				338000	1128UO-1						95	43.1
6.000-6.249	152.40-158.72	304400			1128UO-2	5.000	127.00	112800B4750		835400-25	80	36.3
				316900	1128SF-1						95	43.1

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

Turbine Style Straight Tube Cleaners

1100 Series 6.250" to 9.475" (158.8 to 240.7mm)

Tube ID Range		Application	Cutter Head (Info on page 33)		Cleaner Package		Motor Sleeve Diameter		Motor Diameter		Motor Part #	Universal Coupling	Spares & Accessories		
Inch	mm		Swing Frame	Type H2			Inch	mm	Inch	mm			Operating Hose	Extension Piece	Fiveway Drill
6.250-6.475	158.75-164.46	Heavy Duty	338000		1126SF-2				3.750	95.25	112600-3750	L45000	835300-25	4072C	H2509-1125
				316900	1126H2-3		6.000	152.40					4073C		
		Extra Heavy Duty	338000		1128SF-2				4.750	120.65	112800B4750	L75500A	835400-25	4072C	
				316900	1128H2-2								4073C		
6.500-6.725	165.10-170.82	Heavy Duty	338000		1126SF-2				3.750	95.25	112600-3750	L45000	835300-25	4072C	
				316900	1126H2-3		6.250	158.75					4073C		
		Extra Heavy Duty	338000		1128SF-2				4.750	120.65	112800B4750	L75500A	835400-25	4072C	
				316900	1128H2-2								4073C		
6.750-6.975	171.45-177.17	Heavy Duty	338000		1126SF-2				3.750	95.25	112600-3750	L45000	835300-25	4072C	
				316900	1126H2-3		6.500	165.10					4073C		
		Extra Heavy Duty	338000		1128SF-2				4.750	120.65	112800B4750	L75500A	835400-25	4072C	
				316900	1128H2-2								4073C		
7.000-7.225	177.80-183.52	Heavy Duty			1126H2-3				3.750	95.25	112600-3750	L45000	835300-25	4072C	
		Extra Heavy Duty			1128H2-3		6.625	168.28	4.750	120.65	112800B4750	L75500A	835400-25	4073C	
7.250-7.475	184.15-189.87	Heavy Duty			1126H2-3				3.750	95.25	112600-3750	L45000	835300-25	4072C	
		Extra Heavy Duty			1128H2-3		6.875	174.63	4.750	120.65	112800B4750	L75500A	835400-25	4073C	
7.500-7.725	190.30-196.22	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072C	
		Extra Heavy Duty			1128H2-3		7.125	180.98	4.750	120.65	112800B4750	L75500A	835400-25	4073C	
7.750-7.975	196.85-202.57	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072C	
		Extra Heavy Duty			1128H2-3		7.375	187.33	4.750	120.65	112800B4750	L75500A	835400-25	4073C	
8.000-8.225	203.20-208.92	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072E	
		Extra Heavy Duty			1128H2-3		7.625	193.68	4.750	120.65	112800B4750	L75500A	835400-25	4073E	
8.250-8.475	209.55-215.27	Heavy Duty		317100	1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072E	
		Extra Heavy Duty			1128H2-3		7.875	200.03	4.750	120.65	112800B4750	L75500A	835400-25	4073E	
8.500-8.725	215.90-221.62	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072E	
		Extra Heavy Duty			1128H2-3		8.125	206.38	4.750	120.65	112800B4750	L75500A	835400-25	4073E	
8.750-8.975	222.25-227.97	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072E	
		Extra Heavy Duty			1128H2-3		8.375	212.73	4.750	120.65	112800B4750	L75500A	835400-25	4073E	
9.000-9.225	228.60-234.32	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072E	
		Extra Heavy Duty			1128H2-3		8.625	219.08	4.750	120.65	112800B4750	L75500A	835400-25	4073E	
9.250-9.475	234.95-240.67	Heavy Duty			1126H2-4				3.750	95.25	112600-3750	L45000	835300-25	4072G	
		Extra Heavy Duty			1128H2-3		8.875	225.43	4.750	120.65	112800B4750	L75500A	835400-25	4073G	

Turbine Style Straight Tube Cleaners

1100 Series 9.500" to 13.225" (241.3 to 335.3mm)

Tube ID Range		Application	Cutter Head (Info on page 33)		Cleaner Package	Motor Sleeve Diameter		Motor Diameter		Motor Part #	Universal Coupling	Spares & Accessories		
Inch	mm		Swing Frame	Type H2		Inch	mm	Inch	mm			Operating Hose	Extension Piece	Fiveway Drill
9.500-9.725	241.30-247.02	Heavy Duty		317100	1126H2-4	9.125	231.78	3.750	95.25	112600-3750	L45000	835300-25	4072G	H2509-1125
		Extra Heavy Duty			1128H2-3			4.750	120.65	112800B4750	L75500A	835400-25	4073G	
9.750-9.975	247.65-253.37	Heavy Duty			1126H2-4	9.375	238.13	3.750	95.25	112600-3750	L45000	835300-25	4072G	
		Extra Heavy Duty			1128H2-3			4.750	120.65	112800B4750	L75500A	835400-25	4073G	
10.000-10.225	254.00-259.72	Heavy Duty			1126H2-4	9.625	244.48	3.750	95.25	112600-3750	L45000	835300-25	4072G	
					1128H2-3	9.875	250.83						4073G	
10.250-10.475	260.35-266.07				1128H2-4	10.125	257.18							
10.500-10.725	266.70-272.24					10.375	263.53							
10.750-10.975	273.05-278.77					10.625	269.88							
11.000-11.225	279.40-285.12					10.875	276.23							
11.250-11.475	285.75-291.47					11.125	282.58	4.750	120.65	112800B4750	L75500A	835400-25	4073J	
11.500-11.725	292.10-297.82	Extra Heavy Duty				11.375	288.93							
11.750-11.975	298.45-304.17					11.625	295.28							
12.000-12.225	304.89-310.52					11.875	301.63							
12.250-12.475	311.15-316.87		328000			12.125	307.98							4073N
12.500-12.725	317.50-323.22					12.375	314.33							
12.750-12.925	323.85-329.57					12.625	320.68							
13.000-13.225	330.20-335.32													

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

1119SF-1 to 1128SF-2 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Swing-Frame Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins
- (1) Set of Keeper Pins

1119H2-1 to 1120H2-1 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Type H2 Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins

1128H2-1 to 1128H2-4 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Type H2 Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins
- (1) Set of Lock Pins

1119UO-1 to 1128UO-2 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Type UO Cutter Head
- (1) Head Coupling
- (1) Set of Cone Cutters
- (1) Set of Straight Cutters
- (1) Set of Cutter Pins

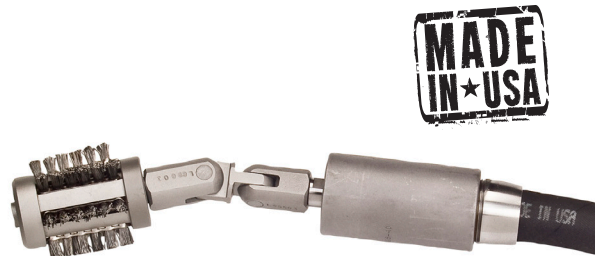
Turbine Style Curved Tube Cleaners

D600 Series

Tube Size	Tube Section	Deposit	Thickness of Deposit	Deposit Flush
● 0.791" to 2.124" (20.1 to 54.0mm) ID	● Curved	○ Soft, gummy, or organic ● Hard powder	○ Light ● Medium	● Dry

Elliott Tool's D600 Series Air Turbine Style Curved Tube Cleaners are ideal for 0.791" to 2.124" ID curved tubes (20.1mm to 54.0mm).

The air turbine style motor is sized for optimum performance and power to drive the cleaning head down the tube at a high speed, removing light to medium deposits of scale, mud, and other process residues.



Features & Benefits:

- Powerful motor design allows for immediate startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

Specifications:

- 11-26 CFM (0.3-0.7 M³/min.) @ 80 PSI (5.5 bar)

How to Order:

1. Specify tube size(s) to be cleaned. D600 Series Kits vary upon tube ID size.
See table on opposite page for the kit required for your tube size.
2. Choose cleaning head, other spares, & accessories.

D661-22-1 to D668-46-3 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (5) Threaded Cone Cutters
- (2) Adapters
- (1) Expanding Brush
- (1) Set of Brush Refills
- (1) Flexible Holder
- (1) Universal Coupling
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

D668C52-1 and D668C52-2 Cleaner

Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (2) Single Pin Head Cutters
- (1) Expanding Brush
- (1) Set of Brush Refills
- (1) Flexible Holder
- (1) Universal Coupling
- (1) 25' (7.6M) Operating Hose
- (1) Tool Box

Spares & Accessories:

- Spares and accessories vary by tube ID size. *See table on page 33 for details.*
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve

Turbine Style Curved Tube Cleaners

D600 0.791" to 2.124" (20.1 to 4.0mm) Inside Diameter

Tube ID Range		Min. Bend Radius		Cleaner Package		Motor Diameter		Motor Part #	Universal Coupling	Cone Cutter	Adapter	Expanding Brush	Flexible Holder	Operating Hose	Package Weight	
Inch	mm	Inch	mm			Inch	mm								Lbs.	Kg.
0.791-0.815	20.09-20.70	6.000	152.40	D661-22-1	D661-22-1	0.781	19.84	D66100-22	L69300	17702	8434A	350000	420000CC	*833100-25P	8	3.6
0.816-0.890	20.73-22.61			D661-22-2	D661-22-2							350200				
0.891-0.910	22.63-23.11			D661-22-3	D661-22-3							350400				
0.911-0.940	23.14-23.88															
0.941-1.040	23.90-26.42			D662-25-1	D662-25-1	0.687	17.45	D66200-25		19062	8436A	350600		*833100-25P	10	4.5
1.041-1.100	26.44-27.94			D663-28-1	D663-28-1	0.875	22.22	D66300-28		19840		350800				
1.101-1.140	27.97-28.96			D663-28-2	D663-28-2				L69400		8436C	351000	420100		11	5.0
1.141-1.180	28.98-29.97			D663-31-1	D663-31-1	0.968	24.59	D66300-31		19076		351200				
1.181-1.242	30.00-31.55			D663-31-2	D663-31-2									**1004-25P		
1.243-1.270	31.57-32.26			D663-31-3	D663-31-3							351400				
1.271-1.300	32.28-33.02			D665-34-1	D665-34-1				L69500	19077	8436E	351600	420100BC			
1.301-1.360	33.05-34.54			D665-34-2	D665-34-2	1.062	26.55	D66500-34								
1.361-1.410	34.57-35.81			D665-34-3	D665-34-3							351800		**1004-25P	13	5.9
1.411-1.445	35.84-36.70			D665-34-4	D665-34-4				L69600	19078			420200BD			
1.446-1.490	36.73-37.85			D665-34-5	D665-34-5							352000				
1.491-1.525	37.87-38.74			D665-40-1	D665-40-1	1.250	31.75	D66500-40		19813	8440A	352200				
1.526-1.600	38.76-40.64			D665-40-2	D665-40-2							352400		**1004-25P		
1.601-1.640	40.67-41.66			D665-40-3	D665-40-3							352600				
1.641-1.680	41.68-42.67			D665-40-4	D665-40-4					19814		352800			15	6.8
1.681-1.725	42.70-43.82			D668-46-1	D668-46-1	1.437	36.50	D66800-46				352900				
1.726-1.772	43.84-45.01			D668-46-2	D668-46-2				L45500			353000	420300DD	***1009-25P		
1.773-1.820	45.03-46.23			D668-46-3	D668-46-3							353200A			20	10.8
1.821-1.910	46.25-48.51			D668C52-1	D668C52-1					313800		353400A				
1.911-2.000	48.54-50.80			D668C52-2	D668C52-2	1.625	41.28	D66800C52								
2.001-2.040	50.83-51.82	20.000	508.00													
2.041-2.124	51.84-53.95															

* Recommend use with Air Valve 720200. Air Valve sold separately.
 ** Recommend use with Air Valve 720300. Air Valve sold separately.
 *** Recommend use with Air Valve 720400. Air Valve sold separately.

Note: Operating hoses are also available in 50 ft. sizes. Contact Customer Service for details.

Turbine Style Curved Tube Cleaners

1300 Series

Tube Size	Tube Section	Deposit	Thickness of Deposit	Deposit Flush
● 2.125" to 4.999" (54.0 to 127.0mm) ID	● Curved	● Hard powder ● Rock solid	● Medium ● Heavy	● Dry

Elliott Tool's 1300 Series Air Turbine Style Curved Tube Cleaners are ideal for 2.125" to 4.999" ID curved tubes (54.0mm to 127.0mm).

The air turbine style motor is sized for optimum performance and power to drive the cleaning head down the tube at a high speed, removing medium to heavy deposits of scale, mud, and other process residues.

Features & Benefits:

- Powerful motor design allows for immediate startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

How to Order:

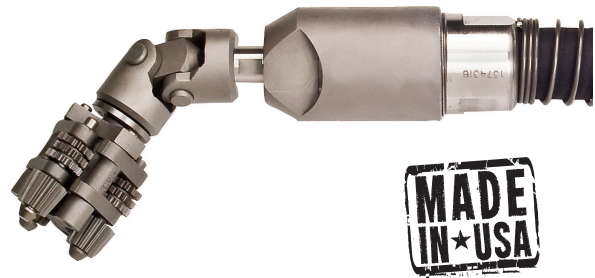
1. Specify tube size(s) to be cleaned. 1300 Series Kits vary upon tube ID size.

See table on opposite page for the kit required for your tube size.

2. Choose cleaning head, other spares, & accessories.

Spares & Accessories:

- Spares and accessories vary by tube ID size. *See table on page 33 for details.*
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve



Specifications:

- 65-135 CFM (1.8-3.8 M³/min.) @ 80 PSI (5.5 bar).

Turbine Style Curved Tube Cleaners

2.125" to 4.999" (54.0 to 127.0mm) Inside Diameter

1300 Series

Tube ID Range		Min. Bend Radius		Cleaner Package	Motor Diameter		Motor Part #	Universal Coupling	Cutter Head	Type "G" Brush	Oper. Hose & Air Valve	Package Weight																	
Inch	mm				Inch	mm						Inch	mm	Lbs.	Kg.														
2.125-2.249	53.98-57.12	12.000	304.80	1370C-1	1.750	44.45	137000C1750	L76200A	336000	3145-6	1009-25P & 720400	10	4.5																
2.250-2.374	57.15-60.30	9.000	228.60							1395C-1		1.875	47.63	139500C1875	3145-8	12	5.5												
2.375-2.499	60.33-63.47	9.000	228.60	3146-2																									
		10.000	254.00	3146-4																									
2.500-2.624	63.50-66.68	15.000	381.00	1374C-1	2.125	53.98	137400D2125			L27600		336100	3147-4	1006-25P & 720500	20	9.1													
2.625-2.749	66.68-69.82	11.000	297.40	1374C-2				3147-6																					
2.750-2.874	69.85-73.00	11.000	297.40	1374C-3				2.375	60.33		136400D2375		L52200		3147-8	22	10.0												
		14.000	355.60	1364C-1	3151-2																								
2.875-2.999	73.03-76.17	12.000	304.80	1364C-2	2.625	66.68	134200D2625			L28000					336200	3151-4	25	11.4											
		21.000	533.40	1342C-1				2.375	60.33		136400D2375	L52200																	
3.000-3.249	76.20-82.52	12.000	304.80	1364C-3									2.625	66.68					134200D2625	L28000									
		15.000	381.00	1342C-1	2.875	73.03	139300D2875	L28000A	336300	3196-8	29	13.2																	
3.250-3.499	82.55-88.87	13.000	330.20	1342C-2									3.000	76.20		132500D3000			L37300	336400	3196-10	33	15.0						
		16.000	406.40	1393C-1											3.625		92.08	139900D3625						L51000					
3.500-3.749	88.90-95.22	14.000	355.60	1393C-2	3.000	76.20	132500D3000	L37300		316500			3196-10	40		18.2													
		18.000	457.20	1325C-1															3.000						76.20	132500D3000	L37300	316500	3196-10
3.750-3.99	95.25-101.57	14.000	355.60		1399C-1	3.625	92.08	139900D3625	L51000		316500	3196-10			40		18.2												
		15.000	381.00															1399C-1		3.625	92.08	139900D3625	L51000	316500					
4.000-4.249	101.60-107.92	26.000	660.40	1399C-1															3.625						92.08	139900D3625	L51000		
		16.000	406.40	1325C-2	3.000	76.20	132500D3000	L37300	316500	3196-10			40	18.2															
4.250-4.499	107.95-114.27	21.000	533.40	1399C-1												3.625		92.08		139900D3625	L51000	316500	3196-10					40	18.2
		16.000	406.40								1399C-1	3.625			92.08		139900D3625		L51000						316500	3196-10	40		
4.500-4.749	117.30-120.62	16.000	406.40		1399C-1	3.625	92.08	139900D3625																L51000					
		18.000	457.20	1399C-1												3.625		92.08		139900D3625	L51000								
4.750-4.999	120.65-126.97	18.000	457.20						1399C-1	3.625	92.08	139900D3625	L51000	316500	3196-10		40		18.2										

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details..

1370C-1 to 1325C-1 Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Swing-Frame Cutter Head
- (1) Universal Coupling
- (2) Sets of Cone Cutters
- (2) Sets of Cutter Pins
- (2) Sets of Star Cutters
- (1) Set of Arm Pins
- (1) Set of Keeper Pins
- (1) Type "G" Brush
- (1) Set of Brush Sections
- (1) Universal Coupling
- (1) Tool Box

1325C-2 to 1399C-1 Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) Swing-Frame Cutter Head
- (1) Universal Coupling
- (2) Sets of Cone Cutters
- (2) Sets of Cutter Pins
- (1) Set of Arm Pins
- (1) Set of Lock Pins
- (1) Type "G" Brush
- (1) Set of Brush Sections
- (1) Universal Coupling
- (1) Tool Box

Turbine Style Curved Tube Cleaners

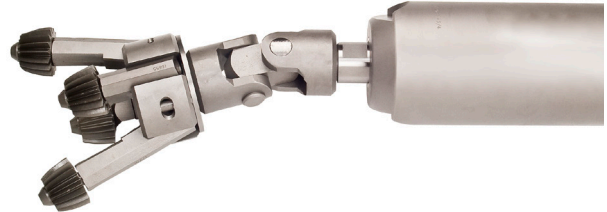
1100 Series

Tube Size	Tube Section	Deposit	Thickness of Deposit	Deposit Flush
● 5.000" to 13.225" (127.0 to 335.9mm) ID	● Curved	● Hard powder ● Rock solid	● Medium ● Heavy	● Dry

Elliott Tool's 1100 Series Air Turbine Style Curved Tube Cleaners are ideal for 5.000" to 13.225" ID curved tubes (127.00mm to 335.92mm).

The air turbine style motor is sized for optimum performance and power to drive the cleaning head down the tube at a high speed, removing medium to heavy deposits of scale, mud, and other process residues.

For tube ID range 5.000" to 13.225" (127.0mm to 335.9mm) air turbine motors will be equipped with motor sleeves to allow the use of small, lightweight motors, reducing the size of the operating hose required.



Features & Benefits:

- Powerful motor design allows for immediate startup.
- The motor requires no special tools for repair.
- Armored hose design for rigidity and heat resistance.

Specifications:

- 80-200 CFM (2.3-5.7 M³/min.) @ 80 PSI (5.5 bar)

How to Order:

1. Specify tube size(s) to be cleaned. 1100 Series Kits vary upon tube ID size.

See table on opposite page for the kit required for your tube size.

2. Choose cleaning head, other spares, & accessories.

Spares & Accessories:

- Spares and accessories vary by tube ID size. *See table on page 33 for details.*
- 6055 Lubricator
- 6070 Filter/Lubricator
- 720700 1" Foot Valve
- 720700B 3/4" Foot Valve

Turbine Style Curved Tube Cleaners

1100 Series 5.000" to 9.975" (127.0 to 253.4mm)

Tube ID Range			Min. Bend Radius		Application	Cleaner Package	Motor Sleeve Diameter		Motor Diameter		Motor Part #	Universal Coupling		H2 Cutter Head	Operating Hose	Extension Piece	Fiveway Drill				
Inch	mm	Inch	mm	Inch			mm	Inch	mm	Inch		mm	HD					Extra HD			
5.000-5.225	127.00-132.72	25	635	1126CH2-1		4.250	107.95						316800	835300-25	8418L	H2347-750					
5.250-5.475	133.35-139.07					4.500	114.30														
5.500-5.725	139.70-145.42					4.750	120.65														
5.750-5.975	146.05-151.77					5.000	127.00														
6.000-6.225	152.40-158.12	30	762	1126CH2-2	Heavy Duty	5.250	133.35	3.750	95.25	112600-3750	L45000		316900	835300-25	4072C						
6.250-6.475	158.75-164.47					5.500	139.70														
6.500-6.725	165.10-170.82					5.750	146.05														
6.750-6.975	171.45-177.17					6.000	152.40														
7.000-7.225	177.80-183.52	35	889	1126CH2-3		6.250	158.75							835300-25							
7.250-7.475	184.15-189.87					6.500	165.10														
7.500-7.725	190.50-196.22					6.875	174.63										120.65	112800B4750	L75600A		
7.750-7.975	196.85-202.57																				
8.000-8.225	203.20-208.92	40	1016	1126CH2-3	Heavy Duty	7.125	180.98	3.750	95.25	112600-3750	L75600A		317100	835300-25	4073E	H2509-1125					
8.250-8.475	209.55-215.27			1128CH2-1	Extra Heavy Duty	7.375	187.33	4.750	120.65	112800B4750	L75600A										
8.500-8.725	215.90-221.62			1126CH2-3	Heavy Duty	7.625	193.68	3.750	95.25	112600-3750	L75600A										
8.750-8.975	222.25-227.97			1128CH2-1	Extra Heavy Duty	7.875	200.03	4.750	120.65	112800B4750	L75600A										
9.000-9.225	228.60-234.32	45	1143	1126CH2-4	Heavy Duty	8.125	206.38	3.750	95.25	112600-3750	L75600A		317200	835300-25	4073G						
9.250-9.475	234.95-240.67			1128CH2-2	Extra Heavy Duty	8.375	212.73	4.750	120.65	112800B4750	L75600A										
9.500-9.725	241.30-247.02			1126CH2-4	Heavy Duty	8.625	219.08	3.750	95.25	112600-3750	L75600A										
9.750-9.975	247.65-253.37			1128CH2-2	Extra Heavy Duty	8.875	225.43	4.750	120.65	112800B4750	L75600A										

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

Turbine Style Curved Tube Cleaners

1100 Series 10.000" to 13.225" (254.0 to 335.2mm)

Tube ID Range		Min. Bend Radius		Application	Cleaner Package	Motor Sleeve Diameter		Motor Diameter		Motor Part #	Universal Coupling		H2 Cutter Head	Operating Hose	Extension Piece	Fiveway Drill		
Inch	mm	Inch	mm			Inch	mm	Inch	mm		Heavy Duty	Extra Heavy Duty						
10.000-10.225	254.00-259.72	50	1270	Heavy Duty	1126CH2-4	9.125	231.78	3.750	95.25	112600-3750	L75600	317200	835300-25	835400-25 835300-25	4073G	H1059-1125		
10.250-10.475	260.35-266.07			Extra Heavy Duty	1128CH2-2	4.750	120.65	4.750	120.65	112800B4750								
10.500-10.725	266.70-272.42			Heavy Duty	1126CH2-4	9.375	238.13	3.750	95.25	112600-3750								
10.750-10.975	273.05-278.77				1128CH2-2	9.625	244.48				L75600A	328000	835400-25					
11.000-11.225	279.40-285.12	55	1397	Extra Heavy Duty	1128CH2-3	9.875	250.83											
11.250-11.475	285.75-291.47					10.125	257.18											
11.500-11.725	292.10-297.82					10.375	263.53											
11.750-11.975	298.45-304.17					10.625	269.88											
12.000-12.225	304.80-310.52	60	1524	Extra Heavy Duty	1128CH2-3	10.875	276.23	4.750	120.65	112800B4750	L75600		4073J					
12.250-12.475	311.15-316.87					11.125	282.58											
12.500-12.725	317.50-323.22					11.375	288.93											
12.750-12.975	323.85-329.57					11.625	295.28											
13.000-13.225	330.20-335.92					11.875	301.63						4073N					
						12.125	307.98											

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

Note: Operating hoses are sold separately for these Cleaner Packages. They are also available in 50 ft. sizes. Contact Customer Service for details.

1126CH2-1 and 1126CH2-2

Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) H-2 Cutter Head
- (1) Universal Coupling
- (1) Set of Cone Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins

1126CH2-3 to 1128CH2-3

Cleaner Package Consists of:

- (1) Air Motor
- (1) Set of Paddles
- (1) H-2 Cutter Head
- (1) Universal Coupling
- (1) Set of Cone Cutters
- (1) Set of Cutter Pins
- (1) Set of Arm Pins
- (1) Set of Lock Pins

Turbine Style Tube Cleaner Accessories Cleaning Heads

Tube Section	Thickness of Deposit	Deposit Distribution	Cleaner Series	Cleaning Head	Details on page #
Straight Only	Medium to Heavy	Even	Use with 1300 or 1100 Series	Swing Frame Long Surface	34
Straight Only	Medium to Heavy	Even or Uneven	Use with 1300 or 1100 Series	KM Drill	36
Straight Only	Heavy to Very Heavy	Even	Use with 1300 or 1100 Series	UO Head	35
Straight or Curved	Light	Even	Use with D600 or 1300 Series	Expanding Brush	37
Straight or Curved	Light to Medium	Even or Uneven	Use with D600 Series- smaller ID's	Threaded Cone Cutter	36
Straight or Curved	Light to Medium	Even or Uneven	Use with D600 Series- larger ID's	Single Pin Head	34
Straight or Curved	Light to Medium	Even	Use with D600 or 1300 Series	Type "G" Brush	36
Straight or Curved	Medium	Even	Use with 1300 Series	Swing Frame Short Surface	38
Straight or Curved	Medium	Even	Use with 1300 or 1100 Series	Clipless Head	39
Straight or Curved	Medium to Heavy	Even or Uneven	Use with 1300 or 1100 Series	Drill Head	34
Straight or Curved	Medium to Heavy	Uneven	Use with 1300 or 1100 Series	Two & Three Arm Head	39
Straight or Curved	Heavy to Very Heavy	Uneven	Use with 1300 or 1100 Series	H-2 Head	36
Note: The above cleaning heads are not to be used on non-ferrous tube materials such as copper, brass, bronze, and aluminum.					

All Elliott cutter heads are variations of straight and patented trackless design. The spacing of trackless cutter teeth is manufactured so that any one tooth does not return to the same spot in the tube in successive revolutions of the head. As a result, each tooth contacts at a slightly advanced point, effectively removing all the deposits but preventing a tooth design in the tube.

How To Order:

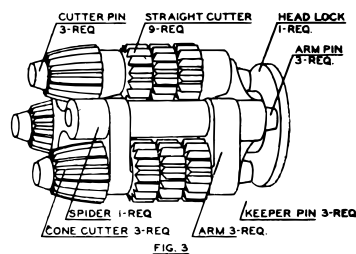
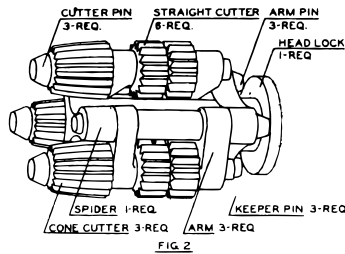
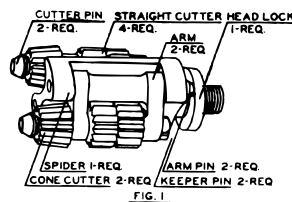
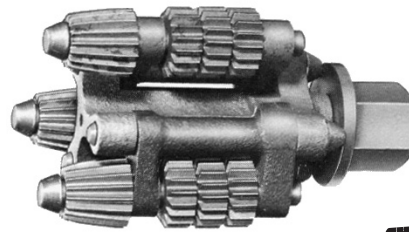
1. Measure the Tube ID.
2. Identify the type of tube section to be cleaned (straight or curved).
3. Identify the deposit thickness of the tubes to be cleaned (light, medium, or heavy).
4. Identify the deposit distribution of the tubes to be cleaned (even or uneven).
5. Select proper type and size cleaning head based on the Tube ID and Motor Series in the table on the following pages.
6. Determine quantity needed.

Turbine Style Tube Cleaner Accessories

Cleaning Heads

Swing Frame (Long Surface)					
Minimum Tube ID		Head #	Expansion Range		Spider Thread
Inch	mm		Inch	mm	
2.250	57.15	337300	2.000-2.875	50.80-73.03	1/2"-13 Stud
2.625	66.68	337400	2.312-3.250	58.72-82.55	1/2"-13 Tap
3.00	76.20	337500	2.625-3.625	66.68-92.08	1/2"-13 Tap
3.750	95.25	337700	3.375-4.625	85.73-117.48	3/4"-10 Tap
5.000	127.00	337900	6.626-6.375	117.50-161.93	1-1/8"-12 Tap
6.000	152.40	338000	5.625-7.375	142.88-187.33	1-1/8"-12 Tap

Straight Tube Section Only

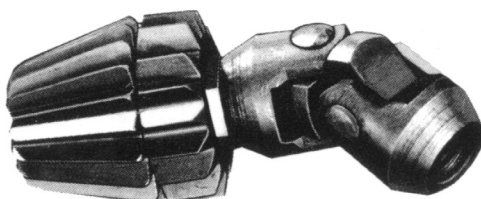


Drill Head				
Cutter Diameter		Head #	Male Thread	Figure
Inch	mm			
0.875	22.23	H1145-312	5/16-18	1
1.125	28.58	H1144-437	7/16-14	2
1.250	31.75	H1105-437	7/16-14	3
1.500	38.10	H1058-437	7/16-14	4
1.750	44.45	H1059-437	7/16-14	5
2.000	50.80	H1166-625	5/8-11	6
2.250	57.15	H2356-625	5/8-11	7
2.625	66.68	H2404-750	3/4-10	8
2.875	73.03	H2355-750	3/4-10	9
3.125	79.38	H2347-750	3/4-10	10
3.500	88.90	H2509-1125	1-1/8-12	11

Straight or Curved Tube Section

Swing Frame (Long Surface)									
Head #	Head Parts								Figure
	Spider	Arm	Arm Pin	Cutter Pin	Cone Cutter	Straight Cutter	Keeper Pin	Head Lock	
337300	337302	337304	337306	337307	H-36008	T-19061	337312	337346	1
337400	337402	337404	337306	337307	H-36008	T-19061	337312	337446	2
337500	337502	337504	337506	337507	T-17745-A	T-16986-A	337512	337546	2
337700	337702	337704	337606	337607	T-17119	T-16686-A	337712	337746	3
337900	337902	337904	337906	337907	T-16863	T-16865	337912	337946	3
338000	338002	337904	337906	337907	T-16863	T-16865	337912	338046	3

Straight Tube Section Only



Universal Coupler not included

Single Pin Head					
Tube ID		Cutter Diameter		Head #	Male Thread
Inch	mm	Inch	mm		
1.125 - 1.250	28.58 - 31.75	.875	22.23	319000	3/8-16
1.375	34.93	1.000	25.40	313400	3/8-16
1.500	38.10	1.125	28.58	313500	7/16-14
1.625	41.28	1.250	31.75	313600	7/16-14
1.750	44.45	1.375	34.93	313700	7/16-14
2.000	50.8	1.500	38.10	313800	7/16-14
2.250 - 2.500	57.15 - 63.50	1.750	44.45	315800	5/8-11

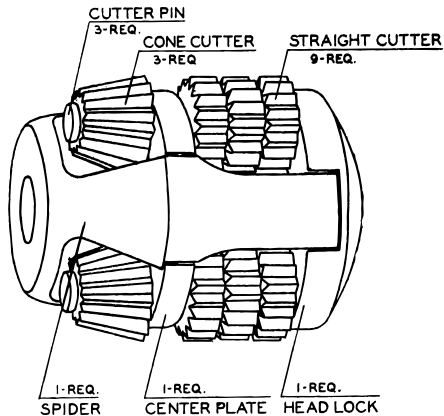
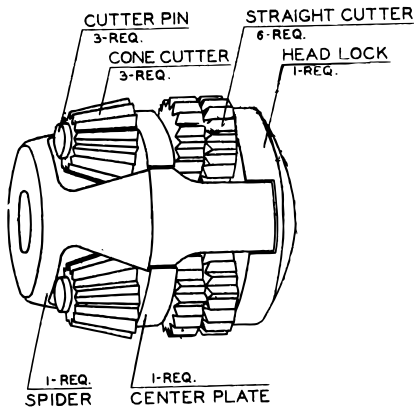
Straight or Curved Tube Section

Turbine Style Tube Cleaner Accessories

Cleaning Heads



UO Head						
Minimum Tube ID		Head #	Expansion Range		Tap in Spider	
Inch	mm		Inch	mm	Front	Rear
1.875	47.63	302600	1.750-1.937	44.45-49.20	1/2"-13	1/2"-13
2.00	50.80	302700	1.875-2.062	47.63-52.37	1/2"-13	1/2"-13
2.125	53.98	302800	2.000-2.312	50.80-58.72	1/2"-13	1/2"-13
2.250	57.15	302900	2.125-2.437	53.98-61.90	1/2"-13	1/2"-13
2.375	60.33	303000	2.250-2.625	57.15-66.68	5/8"-11	5/8"-11
2.500	63.50	303100	2.375-2.750	60.33-69.85	5/8"-11	5/8"-11
2.625	66.68	303200	2.500-2.875	63.50-73.03	5/8"-11	5/8"-11
2.750	69.85	303300	2.532-3.000	65.07-76.20	5/8"-11	5/8"-11
2.875	73.03	303400	2.687-3.187	68.25-80.95	3/4"-10	3/4"-10
3.000	76.20	303500	2.812-3.250	71.42-82.55	3/4"-10	3/4"-10
3.250	82.55	303600	3.062-3.625	77.77-92.08	3/4"-10	1"-8
3.500	88.90	303700	3.312-3.875	84.12-98.43	3/4"-10	1"-8
3.750	95.25	303800	3.562-4.250	90.47-107.95	7/8"-9	1"-8
4.000	101.60	303900	3.812-4.500	96.82-114.30	7/8"-9	1-1/8"-12
4.250	107.95	304000	4.000-4.625	101.60-117.48	7/8"-9	1-1/8"-12
4.500	114.30	304100	4.250-5.000	107.95-127.00	7/8"-9	1-1/8"-12
4.750	120.65	304200	4.500-5.250	114.30-133.35	7/8"-9	1-1/8"-12
5.000	127.00	304300	4.750-5.500	120.65-139.70	7/8"-9	1-1/8"-12
5.250	133.35	304400	5.000-5.750	127.00-146.05	1-1/8"-12	1-1/8"-12
5.500	139.70	304500	5.250-6.000	133.35-152.40	1-1/8"-12	1-1/8"-12
Straight Tube Section Only						



UO Head							
Head #	Head Parts						Figure
	Spider	Center Plate	Head Lock	Cutter Pin	Cone Cutter	Straight Cutter	
302600	302602	302634	302646	19390	T-17565	T-17564	1
302700	302702	302734	302746	19390	T-17565	T-17564	1
302800	302802	302834	302846	19390	H-36008	T-19061	1
302900	302902	302934	302946	19390	H-36008	T-19061	1
303000	303002	303034	303046	19390	H-153408	T-16986	1
303100	303102	303134	303146	19390	H-153408	T-16986	1
303200	303202	303234	303246	18414	H-36308	T-16983	1
303300	303302	303334	303346	18414	T-19797	T-19798	1
303400	303402	303434	303446	18414	T-19797	T-19798	1
303500	303502	303534	303546	18064	T-17119	T-16658-A	1
303600	303602	303634	303646	18064	T-18539	T-17910	1
303700	303702	303734	303746	18064	T-16657	T-16658-A	2
303800	303802	303834	303846	18086	T-19777	T-19778	2
303900	303902	303934	303946	303907	T-16863	T-16865	2
304000	303902	303934	304046	303907	T-16863	T-16865	2
304100	304102	304134	304146	303907	T-19516	T-19517	2
304200	304202	304234	304246	303907	T-19516	T-19517	2
304300	304202	304334	304346	303907	T-19516	T-19517	2
304400	304402	304434	304446	304507	T-17079	T-18805	2
304500	304502	304534	304546	304507	T-17079	T-18805	2

Straight Tube Section Only

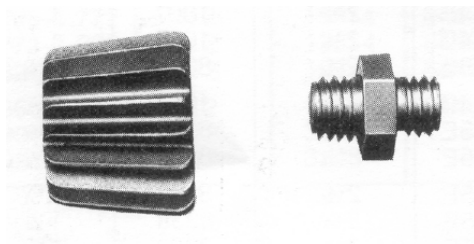
Turbine Style Tube Cleaner Accessories

Cleaning Heads



KM Drill			
Cutter Diameter		Head #	Male Thread
Inch	mm		
1.500	38.10	5097-1-1/2N	1/2-13
1.625	41.28	5097-1-5/8N	1/2-13
1.750	44.45	5097-1-3/4N	1/2-13
1.875	47.63	5097-1-7/8N	1/2-13
2.000	50.80	5097-2Q	5/8-11
2.250	57.15	5097-2-1/4Q	5/8-11
2.500	63.50	5097-2-1/2R	3/4-10
Straight Tube Section Only			

H2 Head				
Minimum Tube ID		Head #	Expansion Range	
Inch	mm		Inch	mm
2.500	63.50	316000	2.125-3.187	53.98-80.95
2.750	69.85	316100	2.500-3.500	63.50-88.90
3.250	82.55	316300	3.000-4.000	76.20-101.60
3.500	82.55	316400	3.187-4.500	80.95-114.30
3.750	88.90	316500	3.375-5.000	85.73-127.00
4.000	95.25	316600	3.625-5.000	92.08-127.00
4.500	101.60	316700	4.000-6.000	101.60-152.40
5.500	114.30	316800	4.250-7.500	107.95-190.50
6.500	139.70	316900	5.250-8.500	133.35-215.90
8.500	165.10	317100	6.750-10.750	171.45-273.05
10.000	215.90	317200	7.250-12.000	184.15-304.80
14.000	254.00	328000	9.000-15.500	228.60-393.70
18.000	355.60	328200	14.000-20.500	355.60-520.70
Straight or Curved Tube Section				



Threaded Cone Cutter			
Cutter Diameter		Head #	Adapter #
Inch	mm		
0.437	11.10	16509	8431A
0.500	12.70	19768	8431B
0.625	15.88	16526	8434C
0.687	17.45	17702	8434C
0.812	20.62	19062	8436A
0.875	22.23	19840	8436C
1.000	25.40	19076	8436C
1.125	28.58	19077	8436E
1.250	31.75	19078	8440A
1.375	34.94	19813	8440A
1.500	38.10	19814	8440A
1.750	44.45	19824	8440G
Straight or Curved Tube Section			

Type "G" Brush		
Minimum Tube ID		Head #
Inch	mm	
1.750	44.45	3083-8
2.000	50.80	3145-4
2.250	57.15	3145-8
2.500	63.50	3147-4
2.750	69.85	3151-8
3.000	76.20	3196-4
3.250	82.55	3196-8
3.500	88.90	3196-10
3.750	95.25	3196-10
Other sizes are available. Contact Customer Service for details.		
Straight or Curved Tube Section		

Turbine Style Tube Cleaner Accessories

Cleaning Heads



Expanding Brush/Scraper				
Tube ID Range		Assembly #	Brush Refill (Qty)	Scraper Blade (Qty)
Straight Inch	Curved Inch			
0.730-0.752	0.770-0.790	350000	350037 (4)	SB1 (4)
0.753-0.778	0.791-0.815	350100	350137 (4)	SB1 (4)
0.779-0.810	0.816-0.850	350200	350237 (4)	SB2 (4)
0.811-0.850	0.851-0.890	350300	350337 (4)	SB2 (4)
0.851-0.871	0.891-0.910	350400	350437 (4)	SB3 (4)
0.872-0.900	0.911-0.940	350500	350537 (4)	SB3 (4)
0.901-0.950	0.941-0.990	350600	350637 (4)	SB4 (4)
0.951-1.000	0.991-1.040	350700	350737 (4)	SB4 (4)
1.001-1.040	1.041-1.075	350800	350837 (4)	SB5 (4)
1.041-1.072	1.076-1.100	350900	350937 (4)	SB5 (4)
1.073-1.100	1.101-1.140	351000	351037 (4)	SB6 (4)
1.101-1.138	1.141-1.180	351100	351137 (6)	SB6 (6)
1.139-1.178	1.181-1.220	351200	351237 (6)	SB7 (6)
1.179-1.206	1.221-1.242	351300	351337 (6)	SB7 (6)
1.207-1.230	1.243-1.270	351400	351437 (6)	SB8 (6)
1.231-1.256	1.271-1.300	351500	351537 (6)	SB9 (6)
1.257-1.290	1.301-1.330	351600	351637 (6)	SB10 (6)
1.291-1.321	1.331-1.360	351700	351737 (6)	SB10 (6)
1.322-1.370	1.361-1.140	351800	351837 (6)	SB11 (6)
1.371-1.400	1.411-1.445	351900	351937 (6)	SB11 (6)
1.401-1.450	1.446-1.490	352000	352037 (6)	SB12 (6)
1.451-1.484	1.491-1.525	352100	352137 (6)	SB12 (6)
1.485-1.525	1.526-1.570	352200	352237 (6)	SB13 (6)
1.526-1.563	1.571-1.600	352300	352337 (6)	SB13 (6)
1.564-1.600	1.601-1.640	352400	352437 (8)	SB14 (8)
1.601-1.635	1.641-1.680	352500	352537 (8)	SB14 (8)
1.636-1.675	1.681-1.700	352600	352637 (8)	SB15 (8)
1.676-1.700	1.701-1.725	352700	352737 (8)	SB16 (8)
1.701-1.730	1.726-1.772	352800	352837 (8)	SB17 (8)
1.731-1.780	1.773-1.820	352900	352937 (8)	SB18 (8)
1.781-1.820	1.821-1.865	353000	353037 (8)	SB19 (8)
1.821-1.880	1.860-1.910	353100A	352437 (8)	SB19 (8)
1.881-1.920	1.911-1.950	353200A	352537 (8)	SB20 (8)
1.921-1.970	1.951-2.000	353300A	352637 (8)	SB20 (8)
1.971-2.010	2.001-2.040	353400A	352737 (8)	SB16 (8)
2.011-2.050	2.041-2.080	353500A	352837 (8)	SB16 (8)
2.051-2.100	2.081-2.140	353600A	352937 (8)	SB18 (8)
2.101-2.150	2.141-2.180	353700A	353037 (8)	SB18 (8)

To order an expanding scraper head assembly, add "SB" suffix to expanding brush assembly number (i.e. 350000SB).

Straight or Curved Tube Section

Heavy Duty Expanding Brush/Scraper				
Brush Expansion		Assembly #	Brush Refill (Qty)	Spider Thread
Min.	Max.			
1.937	2.250	P770	N774 (6)	9/16"-12 UNC
1.937	2.250	P770A	N774 (6)	7/16"-14 UNC
1.937	2.250	S770	N774 (6)	5/8"-11 UNC
2.062	2.500	N770	N774 (6)	9/16"-12 UNC
2.062	2.500	N770A	N774 (6)	7/16"-14 UNC
2.062	2.500	M770	N774 (6)	5/8"-11 UNC
2.437	2.750	R770	R774 (6)	5/8"-11 UNC
2.687	3.000	T770	T774 (6)	5/8"-11 UNC
3.125	3.625	V770	V774 (6)	7/8"-9 UNC
3.125	3.625	V770A	V774 (6)	3/4"-10 UNC
3.500	4.187	Y770	Y774 (6)	7/8"-9 UNC
3.500	4.187	Y770A	Y774 (6)	3/4"-10 UNC
4.125	5.250	H770	X474 (6)	1/8"-7 UNC
4.125	5.250	H770A	X474 (6)	3/4"-10 UNC

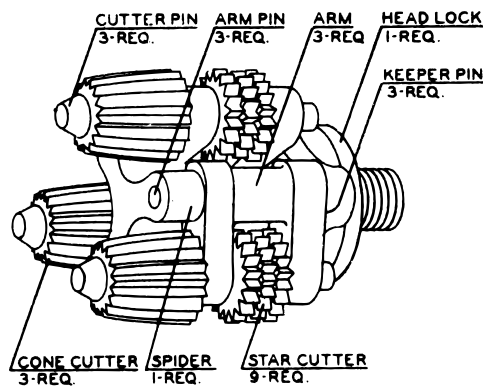
To order an expanding scraper head assembly, add "SB" suffix to expanding brush assembly number (i.e. H770ASB).

Straight or Curved Tube Section

Turbine Style Tube Cleaner Accessories

Cleaning Heads

Swing Frame (Short Surface)					
Minimum Tube ID		Head #	Expansion Range		Spider Thread
Inch	mm		Inch	mm	
2.125	53.98	336000	1.937-2.875	49.20-73.03	7/16-14 Stud
2.500	63.50	336100	2.125-3.125	53.98-79.38	5/8-11 Stud
2.875	73.03	336200	2.875-3.500	73.03-88.90	5/8-11 Stud
3.250	82.55	336300	3.250-3.875	82.55-98.43	3/4-10 Stud
3.500	88.90	336400	3.500-4.250	88.90-107.95	3/4-10 Stud
Straight or Curved Tube Section					



Swing Frame (Short Surface)								
Head #	Head Parts							
	Spider	Arm	Arm Pin	Cutter Pin	Cone Cut-ter	Star Cutter	Keeper Pin	Head Lock
336000	336002	336004	335906	335907	H-35908	H-35909	336012	336046
336100	336102	336104	335906	335907	H-35908	H-35909	336112	336146
336200	336202	336204	336206	336207	H-36008	H-36009	336212	336246
336300	336302	336304	336206	336307	T-17745	H-36209	336312	336346
336400	336402	336404	336406	336407	H-36308	H-36309	336412	336446
Straight or Curved Tube Section								

Turbine Style Tube Cleaner Accessories

Cleaning Heads

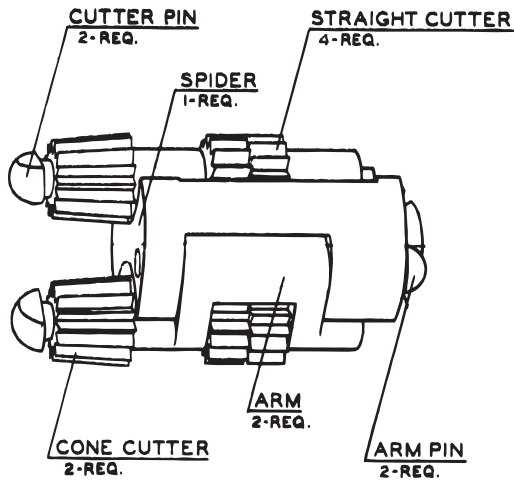


Clipless Head					
Minimum Tube ID		Head #	Expansion Range		Spider Thread
Inch	mm		Inch	mm	
1.750	44.45	H63500	1.500-2.000	38.10-50.80	1/2-13 Stud
2.000	50.80	H63600	1.750-2.250	44.45-57.15	5/8-11 Stud

Straight or Curved Tube Section

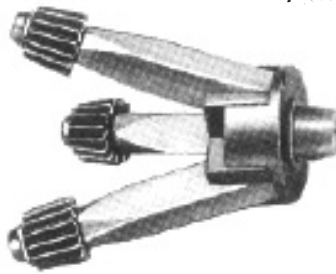
Clipless Head						
Head #	Head Parts					
	Spider	Arm	Arm Pin	Cutter Pin	Cone Cutter	Straight Cutter
H-63500	H-63502	H-63504	H-63506	H-63507	T-17565	H-63509
H63600	H-63602	H-63604	H-63606	H-63607	H-46108	H-47909

Straight or Curved Tube Section



Two and Three Arm Heads				
Minimum Tube ID		Head #	Expansion Range	
Inch	mm		Inch	mm
1.375	34.93	250L	1.125-1.500	28.58-38.10
1.750	44.45	L550	1.500-2.750	38.10-69.85

Straight or Curved Tube Section



Turbine Style Aluminum Siphon Tube Cleaners

Tube Size

- 2.875" to 3.5"
(73.0 to 89.9mm) ID

Tube Section

- Curved

Deposit

- Hard powder
- Rock solid

Thickness of Deposit

- Heavy

Deposit Flush

- Dry

Why use boiler cleaning heads when cleaning siphon tubes? Elliott's powerful Turbine Style Motors and Drill Heads offer aggressively fast cleaning and are engineered specifically for aluminum siphon tubes.

Elliott offers a unique Combination Drill Head to clean aggressively reducing cleaning time. Universal Coupling options are available, including welded rivets and Limited Throw, for lasting performance and increased rotor life.

The easy-to-maintain design of Elliott's Turbine Style Tube Cleaner Motors decreases cost and maintenance.



Features & Benefits:

- Optional stellited drills for extended life and cleaning performance.
- Our unique Combination Drill Head cleans siphon tubes aggressively reducing cleaning time.
- Optional Universal Coupling Rivets may be welded for lasting performance.
- Optional Limited Throw Universal Coupling increases the motor's rotor life.
- Design allows for easy change-over of parts and maintenance.
- Optional High Temperature hoses available for cleaning hot siphon tubes

How To Order:

1. Select motor, universal coupling, and drill from the tables on the next page.
- OR
2. Contact the factory with a drawing of the siphon tube. Elliott will specify a cleaner for your needs.



Elliott's Aluminum Siphon Tube Cleaners may be hand operated or machine fed as shown in the adjacent photo, contact your local support or Elliott for additional details.

Turbine Style Aluminum Siphon Tube Cleaners

Motors

Motor OD		Part Number	Rotor Thread
Inch	mm		
2.375"	60.33	136400D2375	3/4"-10
2.562"	65.07	35-4325K	3/4"-16
2.625"	66.68	134200D2625	3/4"-10
3.000"	76.2	132500D3000	7/8"-9
3.625"	92.08	139900D3625	1-1/8"-12



Universal Couplings

Female Threads	Part Number*	Diameter	
		Inch	mm
	L28000**	1.625"	41.27
3/4"-10 x 3/4"-10	L28000A**	1.625"	41.27
3/4"-10 x 5/8"-11	L57700A	1.812"	46.02
3/4"-10 x 3/4"-10	L27700	1.812"	46.02
3/4"-16 x 5/8"-11	L57700C	1.812"	46.02
3/4"-16 x 3/4"-10	L27700D	1.812"	46.02
7/8"-9 x 3/4"-10	L37300	1.812"	46.02
1-1/8"-12 x 7/8"-9	L44800A	2.000"	50.8
1-1/8"-12 x 1-1/8"-12	L44800	2.000"	50.8

**Add ST at end of part number for welded rivet option.*

*** Recommended for 136400D2375 motor for optimum performance.*



Drill Heads

Drill OD		Part Number	Stud Thread
Inch	mm		
2.250"	57.15	H2356-625S	5/8"-11
2.250"	57.15	H2356-750S	3/4"-10
2.625"	66.68	H2404-750S	3/4"-10
2.875	73.03	H2355-750S	3/4"-10
3.500"	88.9	H2509-1125S	1-1/8"-12



Combination Drills

Drill OD		Part Number	Stud Thread
Inch	mm		
2.500"	63.5	78H	5/8"-11
2.500"	63.5	78HS2	3/4"-10
3.000"	76.2	78ES1	3/4"-10



Rattling Equipment For Oil Field Tubular Products

Tube Size

- 2.375" to 20.000"
(60.3 to 508.0mm) OD

Tube Section

- Straight

Deposit

- Hard powder
- Rock solid

Thickness of Deposit

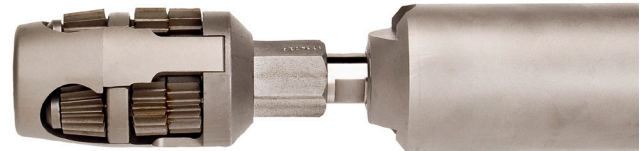
- Medium
- Heavy

Deposit Flush

- Dry

Rattling equipment for oil field tubular products are ideal for 2.375" to 20.000" OD (60.3mm to 508.0mm).

These product kits have been specially designed for the oil field. They are recommended for the most common sizes used in the oil field today. Additional sizes and configurations are available upon request.



Features & Benefits:

- Powerful motors for fast cleaning.
- Engineered design that is easy to maintain.
- Armored hose design for rigidity and torque absorption.

Rattling Equipment Kit Includes:

- 1 - Air Motor
- 1 - Motor Sleeve (where applicable)
- 1 - Wrench
- 1 - Cutter Head
- 1 - Head Coupling
- 2 - Sets of replacement cutters
- 2 - Sets of replacement cutter pins

Spares & Accessories:

- Operating Hose: Highly recommended for proper operation and long life.
- 6055 Lubricator: Highly recommended for proper operation and long life.
- Foot Valve
- Replacement Cutters & Cutter Pins
- Center Plate
- Head Lock
- Motor Paddles

Rattling Equipment Kits			Rattling Equipment Accessories		
Outside Diameter Pipe or Casing		Part Number	Operating Hose		Foot Valve
Inch	mm		25' (7.6M)	50' (15.2M)	
2.375"	60.3	20308K	1006-25	1006-50	720700B
2.875"	73.0	20708K	835100-25	835100-50	
3.500"	88.9	30102K	835300-25	835300-50	720700
4.500"	114.3	40102K*			
5.000" & 5.500"	127.0 & 139.7	50000K			
7.000"	177.8	70000K*			
7.625"	193.7	70508K*			
8.625"	219.1	80508K*			
9.625"	244.5	90508K*	835400-25	835400-50	-
10.750"	273.1	100304K*			
11.750"	298.5	110304K*			
13.375"	339.7	130308K*			
20.000"	508.0	200000K*			

*Kit also includes Motor Sleeve.

How to Order:

1. Specify outside diameter pipe or casing size(s) to be cleaned.
2. Choose additional cleaning head, other spares, & accessories.

Chart to Determine Inside Diameter of Tubes*

B.W.G.	Wall Thickness	Outside Diameter Tubes																					
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	
		6.35	9.52	12.70	15.87	19.05	22.22	25.40	31.75	38.10	44.45	50.80	57.15	63.50	69.85	76.20	82.55	88.90	95.25	101.60	107.95	114.30	
00	inch	0.380						0.115	0.240	0.490	0.740	0.990	1.240	1.490	1.740	1.990	2.240	2.490	2.740	2.990	3.240	3.490	3.740
	mm	9.65						2.92	6.10	12.45	18.80	25.15	31.50	37.85	44.20	50.55	56.90	63.25	69.60	75.95	82.30	88.65	95.00
0	inch	0.340				0.070	0.195	0.320	0.570	0.820	1.070	1.320	1.570	1.820	2.070	2.320	2.570	2.820	3.070	3.320	3.570	3.820	
	mm	8.64				1.78	4.95	8.13	14.48	20.83	27.18	33.53	39.88	46.23	52.58	58.93	65.28	71.63	77.98	84.33	90.68	97.03	
1	inch	0.300			0.025	0.150	0.275	0.400	0.650	0.900	1.150	1.400	1.650	1.900	2.150	2.400	2.650	2.900	3.150	3.400	3.650	3.900	
	mm	7.62			0.64	3.81	6.99	10.16	16.51	22.86	29.21	35.56	41.91	48.26	54.61	60.96	67.31	73.66	80.01	86.36	92.71	99.06	
2	inch	0.284			0.057	0.182	0.307	0.432	0.682	0.932	1.182	1.432	1.682	1.932	2.182	2.432	2.682	2.932	3.182	3.432	3.682	3.932	
	mm	7.21			1.45	4.62	7.80	10.97	17.32	23.67	30.02	36.37	42.72	49.07	55.42	61.77	68.12	74.47	80.82	87.17	93.52	99.87	
3	inch	0.259			0.107	0.232	0.357	0.482	0.732	0.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982	
	mm	6.58			2.72	5.89	9.07	12.24	18.59	24.94	31.29	37.64	43.99	50.34	56.69	63.04	69.39	75.74	82.09	88.44	94.79	101.14	
4	inch	0.238			0.024	0.149	0.274	0.399	0.524	0.774	1.024	1.274	1.524	1.774	2.024	2.274	2.524	2.774	3.024	3.274	3.524	3.774	4.024
	mm	6.05			0.61	3.78	6.96	10.13	13.31	19.66	26.01	32.36	38.71	45.06	51.41	57.76	64.11	70.46	76.81	83.16	89.51	95.86	102.21
5	inch	0.220			0.060	0.185	0.310	0.435	0.560	0.810	1.060	1.310	1.560	1.810	2.060	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060
	mm	5.59			1.52	4.70	7.87	11.05	14.22	20.57	26.92	33.27	39.62	45.97	52.32	58.67	65.02	71.37	77.72	84.07	90.42	96.77	103.12
6	inch	0.203			0.094	0.219	0.344	0.469	0.594	0.844	1.094	1.344	1.594	1.844	2.094	2.344	2.594	2.844	3.094	3.344	3.594	3.844	4.094
	mm	5.16			2.39	5.56	8.74	11.91	15.09	21.44	27.79	34.14	40.49	46.84	53.19	59.54	65.89	72.24	78.59	84.94	91.29	97.64	103.99
7	inch	0.180			0.140	0.265	0.390	0.515	0.640	0.890	1.140	1.390	1.640	1.890	2.140	2.390	2.640	2.890	3.140	3.390	3.640	3.890	4.140
	mm	4.57			3.56	6.73	9.91	13.08	16.26	22.61	28.96	35.31	41.66	48.01	54.36	60.71	67.06	73.41	79.76	86.11	92.46	98.81	105.16
8	inch	0.165		0.045	0.170	0.295	0.420	0.545	0.670	0.920	1.170	1.420	1.670	1.920	2.170	2.420	2.670	2.920	3.170	3.420	3.670	3.920	4.170
	mm	4.19		1.14	4.32	7.49	10.67	13.84	17.02	23.37	29.72	36.07	42.42	48.77	55.12	61.47	67.82	74.17	80.52	86.87	93.22	99.57	105.92
9	inch	0.148		0.079	0.204	0.329	0.454	0.579	0.704	0.954	1.204	1.454	1.704	1.954	2.204	2.454	2.704	2.954	3.204	3.454	3.704	3.954	4.204
	mm	3.76		2.01	5.18	8.36	11.53	14.71	17.88	24.23	30.58	36.93	43.28	49.63	55.98	62.33	68.68	75.03	81.38	87.73	94.08	100.43	106.78
10	inch	0.134		0.107	0.232	0.357	0.482	0.607	0.732	0.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982	4.232
	mm	3.40		2.72	5.89	9.07	12.24	15.42	18.59	24.94	31.29	37.64	43.99	50.34	56.69	63.04	69.39	75.74	82.09	88.44	94.79	101.14	107.49
11	inch	0.120		0.135	0.260	0.385	0.510	0.635	0.760	1.010	1.260	1.510	1.760	2.010	2.260	2.510	2.760	3.010	3.260	3.510	3.760	4.010	4.260
	mm	3.05		3.43	6.60	9.78	12.95	16.13	19.30	25.65	32.00	38.35	44.70	51.05	57.40	63.75	70.10	76.45	82.80	89.15	95.50	101.85	108.20
12	inch	0.109	0.032	0.157	0.282	0.407	0.532	0.657	0.782	1.032	1.282	1.532	1.782	2.032	2.282	2.532	2.782	3.032	3.282	3.532	3.782	4.032	4.282
	mm	2.77	0.81	3.99	7.16	10.34	13.51	16.69	19.86	26.21	32.56	38.91	45.26	51.61	57.96	64.31	70.66	77.01	83.36	89.71	96.06	102.41	108.76
13	inch	0.095	0.060	0.185	0.310	0.435	0.560	0.685	0.810	1.060	1.310	1.560	1.810	2.060	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060	4.310
	mm	2.41	1.52	4.70	7.87	11.05	14.22	17.40	20.57	26.92	33.27	39.62	45.97	52.32	58.67	65.02	71.37	77.72	84.07	90.42	96.77	103.12	109.47
14	inch	0.083	0.084	0.209	0.334	0.459	0.584	0.709	0.834	1.084	1.334	1.584	1.834	2.084	2.334	2.584	2.834	3.084	3.334	3.584	3.834	4.084	4.334
	mm	2.11	2.13	5.31	8.48	11.66	14.83	18.01	21.18	27.53	33.88	40.23	46.58	52.93	59.28	65.63	71.98	78.33	84.68	91.03	97.38	103.73	110.08
15	inch	0.072	0.106	0.231	0.356	0.481	0.606	0.731	0.856	1.106	1.356	1.606	1.856	2.106	2.356	2.606	2.856	3.106	3.356	3.606	3.856	4.106	4.356
	mm	1.83	2.69	5.87	9.04	12.22	15.39	18.57	21.74	28.09	34.44	40.79	47.14	53.49	59.84	66.19	72.54	78.89	85.24	91.59	97.94	104.29	110.64
16	inch	0.065	0.120	0.245	0.370	0.495	0.620	0.745	0.870	1.120	1.370	1.620	1.870	2.120	2.370	2.620	2.870	3.120	3.370	3.620	3.870	4.120	4.370
	mm	1.65	3.05	6.22	9.40	12.57	15.75	18.92	22.10	28.45	34.80	41.15	47.50	53.85	60.20	66.55	72.90	79.25	85.60	91.95	98.30	104.65	111.00
17	inch	0.058	0.134	0.259	0.384	0.509	0.634	0.759	0.884	1.134	1.384	1.634	1.884	2.134	2.384	2.634	2.884	3.134	3.384	3.634	3.884	4.134	4.384
	mm	1.47	3.40	6.58	9.75	12.93	16.10	19.28	22.45	28.80	35.15	41.50	47.85	54.20	60.55	66.90	73.25	79.60	85.95	92.30	98.65	105.00	111.35
18	inch	0.049	0.152	0.277	0.402	0.527	0.652	0.777	0.902	1.152	1.402	1.652	1.902	2.152	2.402	2.652	2.902	3.152	3.402	3.652	3.902	4.152	4.402
	mm	1.24	3.86	7.04	10.21	13.39	16.56	19.74	22.91	29.26	35.61	41.96	48.31	54.66	61.01	67.36	73.71	80.06	86.41	92.76	99.11	105.46	111.81
19	inch	0.042	0.166	0.291	0.416	0.541	0.666	0.791	0.916	1.166	1.416	1.666	1.916										
	mm	1.07	4.22	7.39	10.57	13.74	16.92	20.09	23.27	29.62	35.97	42.32	48.67										
20	inch	0.035	0.180	0.305	0.430	0.555	0.680	0.805	0.930	1.180	1.430	1.680	1.930										
	mm	0.89	4.57	7.75	10.92	14.10	17.27	20.45	23.62	29.97	36.32	42.67	49.02										
21	inch	0.032	0.186	0.311	0.436	0.561	0.686	0.811	0.936	1.186	1.436	1.686	1.936										
	mm	0.81	4.72	7.90	11.07	14.25	17.42	20.60	23.77	30.12	36.47	42.82	49.15										
22	inch	0.028	0.194	0.319	0.444	0.569	0.694	0.819	0.944	1.194	1.444	1.694	1.944										
	mm	0.71	4.93	8.10	11.28	14.45	17.63	20.80	23.98	30.33	36.68	43.03	49.38										
23	inch	0.025	0.200	0.325	0.450	0.575	0.700	0.825	0.950	1.200	1.450	1.700	1.950										
	mm	0.64	5.08	8.26	11.43	14.61	17.78	20.96	24.13	30.48	36.83	43.18	49.53										
24	inch	0.022	0.206	0.331	0.456	0.581	0.706	0.831	0.956	1.206	1.456	1.706	1.956										
	mm	0.56	5.23	8.41	11.58	14.76	17.93	21.11	24.28	30													

*Above table does not allow for tube mill tolerance.

Table to Determine Pipe Size and Schedule Number

Nominal Pipe Size (in.)	O.D. (in.)	Schedule Number for Pipe Sizes Wall Thickness / Inside Diameter (Inches)	
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Elliott Tool Technologies, Ltd.
1760 Tuttle Avenue
Dayton, Ohio 45403-3428
Phone: +1 937 253 6133 • +1 800 332 0447
Fax: +1 937 253 9189
www.elliott-tool.com

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