



NATIONAL TURBINE
CORPORATION

2019



**INDUSTRIAL VACUUM HOSE AND TOOL
CATALOG**



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For over 25 years, National Turbine has been dedicated to the manufacture of the highest Quality multi stage centrifugal blowers and exhausters. Our complete line of cast iron and fabricated blowers have set a standard for quality for others to follow.

We proudly manufacture all of our centrifugal machines 100% in the U.S.A. That means American castings, American made bearings, American machining and American assembly and testing. No other manufacturer can make that claim !!

Our sales and engineering departments have over 150 years of application and design experience, to assure that we provide the exact product to meet your needs.

Our Vacuum cleaning division has 100's of installations worldwide, from the biggest industrial complex to the local mom and pop car wash facility.

This catalog presents our most popular products. If you don't see what you need, please give Us a call at 888-293-7434 or 315-455-5591. Emails can be sent to sales@nationalturbine.com or greggv@nationalturbine.com.

We promise to provide the prompt, knowledgeable and polite service that has been our company hallmark since day one.

Barry Dittler
President



Vacuum Hoses

National Turbine is pleased to offer a wide variety of vacuum hoses to fit almost every need. From general duty commercial hose to static conductive hose for use in dangerous atmospheres, we have the right hose for your needs. These are our most popular styles. Contact us for other sizes and options.

Commercial Vacuum Cleaning Hoses

ST Series

- Polyethylene copolymer hose reinforced with an integral polyethylene helix
- Double profile I-Helix construction for easy movement on surfaces
- Ideal for general commercial service
- Very flexible
- superior abrasion resistance
- Crush resistant
- Designed to resist corrosion caused by the combination of hot water & chemical concentration of detergents
- All sizes handle a full vacuum
- smooth interior assures efficient air flow
- Made with factory-installed polyweld cuffs



size range (in)	1.5", 2"
standard Length (Ft)	25', 50'
standard Colors	orange, blue
temperature range (°F)	-40° to 160°

C SERIES – Our most popular general purpose hose

- Polyethylene copolymer hose reinforced with an integral polyethylene helix
- Double profile i-Helix construction for easy movement on surfaces
- For industrial & commercial vacuum applications
- Crush resistant
- excellent flexing characteristics
- superior abrasion resistance
- smooth interior assures efficient air flow
- All sizes handle a full vacuum
- One swivel and one fixed cuff included on 1 ¼, 1 ½ and 2" hoses



size range (in)	1.25", 1.5", 2", 2.5", 3", 4"
standard Length (Ft)	25', 50'
standard Colors	gray, black
temperature range (°F)	-40° to 140°

FX Series – Popular car wash, car rental hose – resists crushing from being run over, and abrasion from dragging over pavement

- Polyethylene copolymer hose reinforced with an integral polyethylene helix
- Light weight & flexible even at low temperatures
- tight bending characteristics
- High abrasion resistance
- Wet or dry vacuum in car wash, commercial & industrial applications
- Crush resistant
- smooth interior assures efficient air flow
- Very good chemical resistance
- One swivel and one fixed cuff included on 1 ¼, 1 ½ and 2" hoses
- Order cuffs separately on larger sizes



size range (in)	1.25", 1.5", 2", 2.5", 3", 4"
standard Length (Ft)	25', 50'
standard Colors	gray, black
temperature range (°F)	-40° to 140°

Commercial Vacuum cleaning hoses continued

D Series

- Light weight polyethylene copolymer hose reinforced with an integral polyethylene helix
- smooth interior assures efficient air flow
- Light weight & flexible even at low temperatures
- superior external abrasion resistance
- ideal for wet/dry vacuum in car wash, commercial & industrial applications
- Very good chemical resistance
- Crush resistant
- One swivel and one fixed cuff included



size range (in)	1.25", 1.5", 2"
standard Length (Ft)	25', 50'
standard Color	gray
temperature range (°F)	-40° to 140°

U Series

- Light weight polyethylene copolymer hose reinforced with an integral polyethylene helix
- smooth interior assures efficient air flow
- superior external abrasion resistance
- Good flexibility with tight bending characteristics
- Crush resistant
- ideal for use in light weight vacuum applications & as a drain hose
- suitable for conduit for wiring
- Meets iAPMO compliance
- One swivel and one fixed cuff included
- Available in a high temperature version



size range (in)	1.25" , 1.5", 2"
standard Length (Ft)	25', 50'
standard Color	gray
temperature range (°F)	-40° to 140°

UP Series

- Light weight premium grade polyethylene copolymer hose reinforced with an integral polyethylene helix
- smooth interior assures very efficient air flow
- superior external abrasion resistance
- Great flex life for long lasting hose life in applications
- Crush resistant
- ideal for use in light weight vacuum applications & as a drain hose
- Very durable & flexible in hot & cold applications – meets ASTM 595
- Withstands severe twisting with nearly 100% bounce-back
- One swivel and one fixed cuff included



size range (in)	1.25" , 1.5", 2"
standard Length (Ft)	25', 50'
standard Color	gray
temperature range (°F)	-40° to 140°

Static Conductive Hoses

Static conductive hoses are used in atmospheres where a static discharge could potentially cause a dust or combustible fume (such as gasoline fumes) explosion. National Turbine offers 2 forms of static hoses. The ST-P hoses are compounded with special polymers that offer static conductivity directly through the extruded copolymer. FS hoses have an integral copper wire inside the reinforcing helix that can be grounded on both ends.

ST-P series

- Light weight polyethylene conductive copolymer hose reinforced with an integral polyethylene helix
- Conductive
- surface resistivity Level: 10^3 - 10^5 Ohms/square
- smooth interior assures efficient air flow
- ideal for industrial vacuum & light bulk material applications where static may be an issue
- superior external abrasion resistance
- Crush resistant
- Conductive cuffs, one fixed and one swivel included on 1.5" and 2" hose
2 fixed cuffs on 1 ¼" hose



size range (in)	1.25", 1.5", 2"
standard Length (Ft)	25', 50'
standard Color	Black with yellow skin coat

FS series – FDA approved materials

- specially formulated static dissipative polyurethane hose reinforced with a rigid Abs helix and an embedded copper grounding wire
- extremely flexible with great abrasion resistance vs. heavy walled PVC
- smooth interior assures minimal friction loss
- enclosed copper grounding wire reduces static build-up in material handling applications
- Permanent and non-humidity dependent esD (electrostatic discharge) protection
- surface resistivity Level: 10^8 - 10^{10} Ohms/square
- ideal for plastic pellet and powder transfer
- Manufactured with FDA acceptable materials
- Wall thickness = .040"
- static conductive fixed cuffs included on 1 ¼", 1 ½" and 2" hoses
- Order cuffs separately on larger sizes



size range (in)	1.25", 1.5", 2", 2.5", 3"
standard Length (Ft)	25', 50'
standard Color	clear with black helix
temperature range (°F)	-40° to 200°

Wire reinforced Hoses

WR Series

- elastomeric polyurethane hose reinforced with a vinyl coated spring steel wire helix
- Light weight & flexible
- Good chemical resistance
- excellent abrasion resistance
- One swivel and one fixed cuff included ON 1 ¼", 1 ½"
- 2 Fixed cuffs on 2" hose



size range (in)	1.25", 1.5", 2"
standard Length (Ft)	50'
standard Color	black
temperature range (°F)	-60° to 160°

Severe duty hoses

T Series

- rugged polyethylene copolymer hose reinforced with an integral polyethylene helix
- improved polymer formula & 25% thicker to extend life
- Double helix design allows for superior flexibility & durability
- ideal for high vacuum applications
- superior abrasion, better crush resistance & resists kinking
- All sizes handle a full vacuum
- Made with factory-installed leak proof polyweld fixed cuffs



size range (in)	1.5", 2", 3", 4"
standard Length (Ft)	25', 50'
standard Color	yellow and black
temperature range (°F)	-40° to 140°

FT series Rubber Hose for higher temperatures

The FT series is a more flexible alternative to more rigid wire wound Rubber hoses

- Medium weight co-extruded thermoplastic rubber hose with a rigid external polypropylene helix
- ultra smooth interior wall assures efficient airflow
- Very flexible & crush resistant
- tight bend radius
- Moisture & chemical resistant
- Designed for applications with wide temperature ranges
- spiral co-extruded engineered construction
- Helix acts as a wear strip
- Wall thickness = .024" (1.25"), .026" (1.5", 2", 2.5", 3", 4")
- Cuffs sold separately



size range (in)	1.25" 1.5", 2", 2.5" 3", 4"
standard Length (Ft)	25', 50'
standard Color	black with black helix
temperature range (°F)	-60° to 275° intermittent to 300°

The hoses listed above are those most commonly requested and used. We can provide a wide variety of other hoses and sizes for special applications.

We also have a large selection of replacement cuffs for a wide variety of vacuum hoses, enlarger and reducer cuffs and special application cuffs.

Please do not hesitate to contact us at 888-293-7434 or Greggv@nationalturbine.com

Hose Part# Selection guide

SERIES	LENGTH-FEET	1 1/4"	1 1/2 " ID	2" ID	2.5" ID	3" ID	4" ID
ST SERIES	25	NA	ST15025	ST20025	NA	NA	NA
	50	NA	ST25150	ST20050	NA	NA	NA
C SERIES	25	C12525	C15025	C20025	C25025	C30025	C40025
	50	C12550	C15050	C20050	C25050	C30050	C40050
FX SERIES	25	FXP12525	FXP15025	FXP20025	FXP25025*	FXP30025*	FXP40025*
	50	FXP12550	FXP15050	FXP20050	FXP25050*	FXP30050*	FXP40050*
D SERIES	25	D12525	D15025	D20025	NA	NA	NA
	50	D12525	D15050	D20050	NA	NA	NA
U SERIES	25	U12525	U15025	U20025	NA	NA	NA
	50	U12550	U15050	U20050	NA	NA	NA
UP SERIES	25	UP12525	UP15025	UP20025	NA	NA	NA
	50	UP12550	UP15050	UP20050	NA	NA	NA
ST-P SERIES	25	ST-P12525	ST-P15025	ST-P20025	NA	NA	NA
	50	ST-P12550	ST-P15050	ST-P200-50	NA	NA	NA
FS SERIES	25	FS12525	FS15025	FS20025	FS25025*	FS30025*	FS40025*
	20	FS12550	FS15050	FS20050	FS25050*	FS30050*	FS40050*
WR SERIES	25	WR12525	SR15025	WR20025	NA	NA	NA
	50	WR12550	WR15050	WR20050	NA	NA	NA
T SERIES	25	T12525	T15025	T20025	NA	T30025	T40025
	50	T12550	T15050	T20050	NA	T30050	T40050
FT SERIES	25	FT12525*	FT15025*	FT20025*	FT25025*	FT30025*	FT40025*
	50	FT12550*	FT15050*	FT20050*	FT25050*	FT30050*	FT40050*

Not all sizes and lengths are stock items. Standard delivery is approximately 1 week on hose and tool Orders.

Items marked with an asterect * do not include cuffs. Please contact factory for more assistance

Wands 1 1/2"

National Turbine offers a variety of single and double bend floor wands and wall extensions. All standard wands utilize a metal compression swivel that connects to a matching groove in the tool handle.



Other configurations are available to fit different manufacturers products.

Floor wands 1 1/2"

NA200021 - 54" Double bend floor wand, Aluminum
NC200021 - 54" Double bend floor wand, Chrome Steel
NA200049 - 49" Double bend floor wand, Aluminum

NA200028 - Double bend floor wand, Aluminum
Telescoping 49" to 54"



Wall and extension rods 1 1/2"

NA200020- 54" straight aluminum extension for wall and overhead cleaning
NA200025- 60" straight extension
NA200026- 60" single bend extension
NA20020U- 54" friction fit extension for added reach

Tools 1 1/2"

All National Turbine tools are designed to fit our wands, and may not be compatible with other Manufacturers wands.

Carpet Tools 1 1/2"

NA200064- 14" Aluminum carpet tool for dry carpet cleaning
Smooth faced with rubber bumper
NA200045- 14" Aluminum gulper tool for wet or dry pickup carpet or floors
NA200085- 18" Aluminum gulper tool for wet or dry pickup carpet or floors

See page 10 for a selection of ABS Plastic carpet tools



Floor Brushes 1 ½

- NA200063- 14" Aluminum floor brush with Nylon bristles medium stiffness for scrubbing surfaces
- NA20063S- 14" Aluminum floor brush with slotted bristles medium stiffness for scrubbing surfaces- best For areas with higher volumes of surface dirt

See page 10 for a selection of ABS Plastic floor brushes



NA200063, NA20063S

Squeegee Tools 1 ½

- NA200634- 14" Aluminum squeegee tool with Fiber inserts- for rough and or abrasive surfaces has a rubber bumper
- NA200645- 14" Aluminum squeegee tool with neoprene rubber inserts for smooth surfaces has a rubber bumper
- NA20645B- 14" squeegee tool with Buna N rubber inserts- inserts are more resistant to oil, grease and many petroleum products. has a rubber bumper.
- NA200650- 18" multi surface wheeled tool with both brushes and squeegee. Features adjustable wheels for various height surfaces

See page 10 for a selection of ABS Plastic squeegee tools



NA200634, NA200645, NA20645B

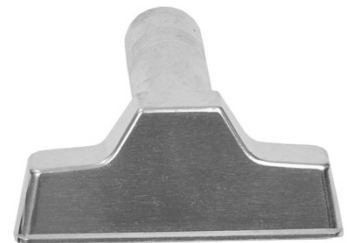


NA200650

When picking up liquids, a portable wet separator is recommended to keep large volumns of liquid from entering the system and getting to the filter separator. Many liquids will degrade the filter material or cause the filter media to plug. For more information, see the Accessories section or contact the factory.

Upholestry Tools and Brushes 1 ½

- NA200007- 6" Aluminum upholstery tool. Also great for work bench Cleaning. Fits ditectly to hose cuff.
- AC200007- 6" slide on brush with polypropylene bristles for NA200007
- NA200013- 10" Aluminum wall brush with soft horse hair bristles
- NA200014- 10" Aluminum wall brush with medium stiff nylon bristles
- NA200006- 3" Aluminum round dust brush with soft horsehair bristles
- NA200016- 3" Aluminum round dust brush with medium nylon bristles
- NA200012- 5" Aluminum round dust brush with soft horsehair bristles
- NA200015- 5" Aluminum round dust brush with medium nylon bristles
- NA200020 - 6" Utility tool
- AC500020- Add on brush for NA200020 utility tool



NA200007



AC200007



NA200013-NA200014



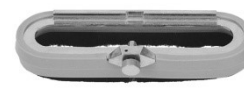
NA200012-NA200015



NA200006-NA200016



NA200029



NR500029

Overhead Pipe Cleaning Tools 1 ½

Used with single bend or straight extensions to keep reach overhead pipes and ducts more easily.

- NA200030- Aluminum overhead pipe cleaning tool for pipes over 6" diameter
- NA200031- Aluminum overhead pipe cleaning tool for pipes 4" to 6" diameter
- NA200032- Aluminum overhead pipe cleaning tool for pipes 1" to 3" diameter



NA200030,31,32

Crevice Tools and Bulk Nozzles 1 ½

- NC200017 – 15" Chrome steel crevice tool with angled end
- NA200011- 11" Aluminum crevice tool with angled end
- NA200024- 24" Aluminum crevice tool with angled end
- NC000027- 27" Chrome steel crevice tool with straight end



NC200017-NA200011-NA200024



NC000027

- NA200004- 18" Aluminum bulk pick up nozzle angled end
- NP200008 - 9" Plastic and rubber bulk nozzle
- NP200007- 24" Flexible rubber nozzle with a chrome steel Connecting end
- NP200319 - Industry standard car wash and car rental "duck Foot" tool designed for quick and effective carpet cleaning



NA200004



NP200008



NP200319



NP200007

ABS TOOLS 1 ½"

ABS molded heavy plastic tools offer an economical alternative to aluminum tools, and where there may be chemicals reactive with aluminum. Tools are not static grounded. Great for office environments, schools and commercial applications. Tools fit our standard wands and extensions.

Carpet Tools

- NP200521 – 14" smooth faced carpet tool with rubber bumper
- NP200546 - 14" scalloped face carpet tool with rubber bumper
- NP200543 - 14" Easy glide carpet tool with rubber bumper
- NP200548 - 14" Paddle tool – great for carpets and bench tops



NP200521



NP200548



NP200543



NP200546

ABS TOOLS 1 1/2"

Bare floor tools

- NP200535 – 14" Bare floor brush with Nylon bristles (med stiff)
- NP200536 – 14" Bare floor brush with Horsehair bristles (soft)
- NP200537 – 14" Bare floor brush with Tampico bristles (stiff)
- NP200538 – 20" Bare floor brush with Nylon bristles (med stiff)



NP200535,36,37,38

Slotted floor tools – Slotted front for better air flow to pick up Larger volumes of material

- NP20535S – 14" Bare floor brush with Nylon bristles (med stiff)
- NP20536S – 14" Bare floor brush with Horsehair bristles (soft)
- NP20537S – 14" Bare floor brush with Tampico bristles (stiff)



NP20535S,36S,37S

Squeegees

- NP200545 – 14" Squeegee with neoprene inserts, general purpose
- NP200534 – 14" Squeegee with fiber inserts for rough floors
- NP200455 – 14" Squeegee with neoprene inserts – for oils and greases
- NP200547 – 14" Squeegee with TPE inserts – good chemical resistance



200545,34,455,547

Crevice tools – High impact polystyrene

- NP200611 – 11" Plastic crevice tool
- NP200617 – 17" Plastic crevice tool
- NP200628 – 28" Plastic crevice tool



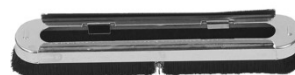
NP200050



NP200611,17,28

Dust and pipe brushes

- NP200050 – 5" Upholstery tool
- NR500050 - Add on brush
- NP200405 – 3" round dust brush horsehair bristles
- NP200506 – 3" round dust brush with polypropylene bristles



NR200050



NHP200405,406

Wands and Tools, 2"

2" hoses, wands and tools are used for larger volume pick and Heavy duty industrial applications.

Our 2" wands and floor tools use a pin and groove connection system.

- NA400031 - 57" Aluminum double bend floor wand
- NA400040 - 54" Aluminum extension
- NA400314 - 13" Aluminum gulper tool for large volume pick up
- NA400035 - 22" Aluminum Nylon Bristle Floor tool for bare surfaces
- NA400045 - 22" Aluminum squeegee tool
- NA400028 - 15" Aluminum crevice tool
- NA400029 - 24" Chrome steel crevice tool
- NA400020 - 18" Bulk pick up tool
- NP400321 - 4" Car wash carpet and seat tool



NA400045



NA400035



NA400028



NA400314



NA400020



NP400321

Valves and adapters

AC200150 – 1 ½ adapter to connect 2 hoses together



AC200150

Inlet Valves

Inlet valves with electric switches are designed for remote start systems

- IV200150 – 1 ½" Inlet Valve zinc body, nickel plate cover
- IV200151 – 1 ½" Inlet Valve zinc body, nickel plate cover, with electric switch ¹
- IV200152 – 1 ½" Inlet Valve, nickel plated
- IV200153 – 1 ½" Inlet Valve, nickel plated with electric switch ¹
- IV200154 – 1 ½" Inlet Valve, stainless steel
- IV200180 – 1.8" Inlet Valve zinc body, nickel plate cover ²
- IV200181 – 1.8" Inlet Valve zinc body, nickel plate cover, with electric switch ^{1,2}
- IV200182 – 1.8" Inlet Valve, nickel plated ²



INLET VALVES

Valves and adapters continued

- IV200183 – 1.8" Inlet Valve, stainless steel ²
- IV200200 – 2.0" Inlet Valve zinc body, nickel plate cover
- IV200201 – 2.0" Inlet Valve zinc body, nickel plate cover with retainer hook ²
- IV200202 – 2.0" Inlet Valve zinc body, nickel plate cover, with electric switch ¹
- IV200203 – 2.0" Inlet Valve, nickel plated
- IV200204 – 2.0" Inlet Valve, nickel plated with lid clip ^{2,3}
- IV200205 – 2.0" Inlet Valve, nickel plated with electric switch ¹
- IV200206 – 2.0" Inlet Valve, stainless steel

¹ Inlet valves with electric switches are designed for remote start systems

² These valves are designed for a clip on the cap to lock the hose into the valve- requires adapters with retainer ring

Inlet Hose to Valve Adapters

- HA200150 – 1 ½" Hose to valve adapter, zinc plated
- HA200151 – 1 ½" Hose to valve adapter, stainless steel
- HA200180 – 1.8" Hose to valve adapter with retainer ring, zinc plated
- HA200181 – 1.8" Hose to valve adapter with retainer ring, stainless steel
- HA200200 – 2.0" Hose to valve adapter, zinc plated
- HA200201 – 2.0" Hose to valve adapter with retainer ring, zinc plated
- HA200202 – 2.0" Hose to valve adapter with retainer ring, nickel plated
- HA200203 – 2.0" Hose to valve adapter stainless steel

Escutcheon plates add the final finish to the valve installation

- ES200001 – Escutcheon plate, chrome plated
- ES200002 – Escutcheon plate, nickel plated
- ES200003 – Escutcheon plate, stainless steel
- EV200000 – Valve wrench, fits 1 ½" valves
- EV200001 – Valve wrench fits 1.8" and 2" valves



ESCUTCHEON PLATE



VALVE WRENCH

Replacement Parts for 1 ½" tools

Wands and Extensions

Wand part #	Replacement Coupling	Replacement Nut	Replacement snap ring
NA200021	NR50001CP	NR50001CN	NR50001SR
NC200021	NR50001CP	NR50001CN	NR50001SR
NA200028	NR50001CP	NR50001CN	NR50001SR
NA200049	NR50001CP	NR50001CN	NR50001SR
NA200020	NR50001CP	NR50001CN	NR50001SR
NA200025	NR50001CP	NR50001CN	NR50001SR
NA200026	NR50001CP	NR50001CN	NR50001SR
NA20020U	NR50001CP	NR50001CN	NR50001SR



NR50001CP



NR50001CN



NR50001SR

Floor tools 1 ½”

Tool Number	Replacement Brush	Replacement Bumper
NA200063	NR50063B	NR5000BU
NA20063S	NR50063B	NR5000BU
NA200064	N/A	NR5000BU
NP200543	NR500543	NR5000BU
NP200535	NR500535	NR5000BU
NP200536	NR500536	NR5000BU
NP200537	NR500537	NR5000BU

Squeegees 1 ½”

Tool Number	Replacement squeegee blades	Replacement Bumper
NA200634	NR500634	NR5000BU
NA200645	NR500645	NR5000BU
NA20645B	NR50645B	NR5000BU
NP200545	NR500545	
NP200534	N/A	
NP200455	NR500455	
NP200547	NR500547	

Utility, Upholstery and Dust Brushes

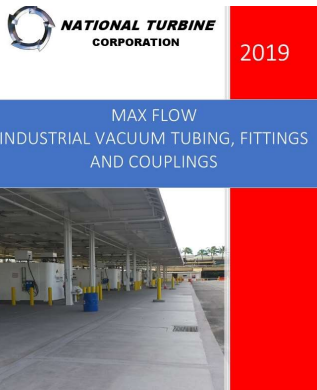
Tool Number	Replacement Brush		
NA200006	NR500006		
NA200007	AC200007		
NA200012	NR500012	NR50012BU	Replacement Bumper
NA200013	NR500013		
NA200014	NR500014		
NA200015	NR500015	NR50012BU	Replacement Bumper
NA200016	NR500016		
NP200535	NR500535		
NP200536	NR500536		
NP200537	NR500537		
NP20535S	NR50535S		
NP20536S	NR50536S		
NP200538	N/A		
NP200406	NR500406		

Service and Support

National Turbine is ready to help, from a single hose to a complete vacuum system.

- A complete line of vacuum tubing and fittings to keep your system ready, or for a complete new piping system.
- New vacuum producers
- Replacement filter bags for Lamson™ Hoffman™ filter receivers
- A full line of vacuum cyclones and filter separators, made in the U.S.A
- One of the largest in stock inventories of replacement parts for Lamson™ and Hoffman™ H.S.I./Atlas Copco multi stage cast iron blowers and exhausters. Our replacement parts are 100% made in the U.S.A. and are guaranteed to meet or exceed all OEM specifications.

Most importantly, we are here to help. Have questions about another manufacturer's equipment, give us a call. We will make every effort to help you solve your problems.



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