

BOILER AND LARGE DIAMETER TUBES



The World's Most Popular Firetube Boiler Cleaner

PUT OVER 40 YEARS OF PROVEN PERFORMANCE TO WORK FOR YOU.

SAM-3 – Easy Operation

You might as well be burning money if you're allowing soot to collect in your boiler firetubes. At five times the insulating value of asbestos, just a small amount of soot can cause dramatic heat loss and substantially increase fuel consumption. Now in its 3rd generation, the SAM-3 Firetube Boiler Cleaner removes soot and scale in almost no time, enabling your system to run at optimal efficiency. A cleaning tool mounted to a 26' spring steel tape does the dirty work of loosening soot buildup while an in-line vacuum attachment handles clean-up duties. All you have to do is flip the switch. It's that easy. And yes, it's that efficient.



FEATURES

- > Spring steel tape
- > Auto feed trigger switch
- > Brush travel indicator
- > Interchangeable cleaning tools
- > Simultaneous vacuum to remove deposits
- > Carrying handle and stand

Specifications	SAM-3
Motor Power	1/2 HP
Input Power	Standard: 7 amps, 115 V, 50/60 Hz AC Optional: 3.5 amps, 230 V, 50/60 Hz
Tape Length	26'
Power Supply Cord	25', 18-3
Vacuum Hose	2" diameter x 12' long
Dimensions	21 1/2" long (without nozzle)
Weight	38 lbs
Optional Carrying Case	24" high x 28" wide x 9" deep

Deposits and Boiler Performance		
Soot in Boiler Tubes	Heat Loss	Increased Fuel Consumption
1/32"	12%	2 1/2%
1/16"	24%	4 1/2%
1/8"	47%	8 1/2%

Boiler Cleaning Systems (with Vacuums):

SAM-3-20-KIT
Boiler Firetube Punching Machine, including a 2" x 12' hose, 18" straight bayonet nozzle (specify diameter), brush and GTC-540-20SS SootVac® Vacuum



SAM-3-15-KIT
Boiler Firetube Punching Machine, including a 2" x 12' hose, 18" straight bayonet nozzle (specify diameter), brush and GTC-540-15SS SootVac Vacuum



SAM-3-30-KIT
Boiler Firetube Punching Machine, including a 2" x 12' hose, 18" straight bayonet nozzle (specify diameter), brush and GTC-540-30DD SootVac Vacuum



SAM-3-55-KIT
Boiler Firetube Punching Machine, including a 2" x 12' hose, 18" straight bayonet nozzle (specify diameter), brush and GTC-540-55DD SootVac Vacuum

Note: See Tube Sizes Chart on page 37 for nozzle and brush sizes.



Steel Brushes:

Steel brushes are recommended for removing soot and light scale deposits.

GTC-151 Steel Brushes for tubes 1 $\frac{3}{8}$ ", 1 $\frac{5}{8}$ ", 2", 2 $\frac{1}{2}$ ", 3", 3 $\frac{1}{2}$ " or 4" O.D.

FTS Scraper Tools:

FTS Scraper Tools are medium action, spring loaded tools. They are used for removing light scale deposits in boiler firetubes when steel brushes do not remove all deposits. Ferrule extension required.

FTS-200 Scraper Tool for tubes 2" O.D.

FTS-250 Scraper Tool for tubes 2 $\frac{1}{2}$ " O.D.

FTS-300 Scraper Tool for tubes 3" O.D.



Ferrule Extensions:

Scraper tools require ferrule extensions. Select the ferrule extension to match the bayonet nozzle in use.

FE-375 Ferrule Extension for scraper tools when using BFN-152 Short Bayonet Nozzles

FE-2100 Ferrule Extension for scraper tools when using BFN-152S or BFN-152SA Straight Bayonet Nozzles

Note: Scraper tools cannot be used with BFN-152X or BFN-152XA Offset Bayonet Nozzles.

Standard Bayonet Nozzles:

BFN-152 Short Bayonet Nozzle, 3 $\frac{1}{2}$ " long for tubes 1 $\frac{3}{8}$ ", 1 $\frac{5}{8}$ ", 2", 2 $\frac{1}{2}$ ", 3" or 3 $\frac{1}{2}$ " O.D.

BFN-152S Straight Bayonet Nozzle, 18" long for tubes 1 $\frac{3}{8}$ ", 1 $\frac{5}{8}$ ", 2", 2 $\frac{1}{2}$ ", 3" or 3 $\frac{1}{2}$ " O.D.

BFN-152SA Straight Bayonet Nozzle, 18" long with ferrule extension for tubes 4" O.D.

BFN-152X Offset Bayonet Nozzle, 18" long for tubes 1 $\frac{3}{8}$ ", 1 $\frac{5}{8}$ ", 2", 2 $\frac{1}{2}$ ", 3" or 3 $\frac{1}{2}$ " O.D.

BFN-152XA Offset Bayonet Nozzle, 18" long with ferrule extension for tubes 4" O.D.

Note: Contact factory if longer Straight or Offset Bayonet Nozzles are needed for your application.

Note: When ordering bayonet nozzles or brushes, specify part number and size according to the table (order by tube O.D.). Bayonet nozzle and brush diameters will fit tube I.D.

Carrying Case:

SC-682 Carrying Case for SAM-3 Boiler Firetube Punching Machine and accessories



SC-682
Carrying
Case

Tube Sizes

Standard Boiler O.D. Size	Approximate Boiler I.D. Size
1 $\frac{3}{8}$ "	1 $\frac{1}{4}$ "
1 $\frac{5}{8}$ "	1 $\frac{1}{2}$ "
2"	1 $\frac{3}{4}$ "-1 $\frac{7}{8}$ "
2 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "-2 $\frac{3}{8}$ "
3"	2 $\frac{3}{4}$ "-2 $\frac{7}{8}$ "
3 $\frac{1}{2}$ "	3 $\frac{1}{4}$ "
4"	3 $\frac{3}{4}$ "

Waterside Boiler Maintenance:

TUBEGUARD™ BLRX & TUBEGUARD™ BLR

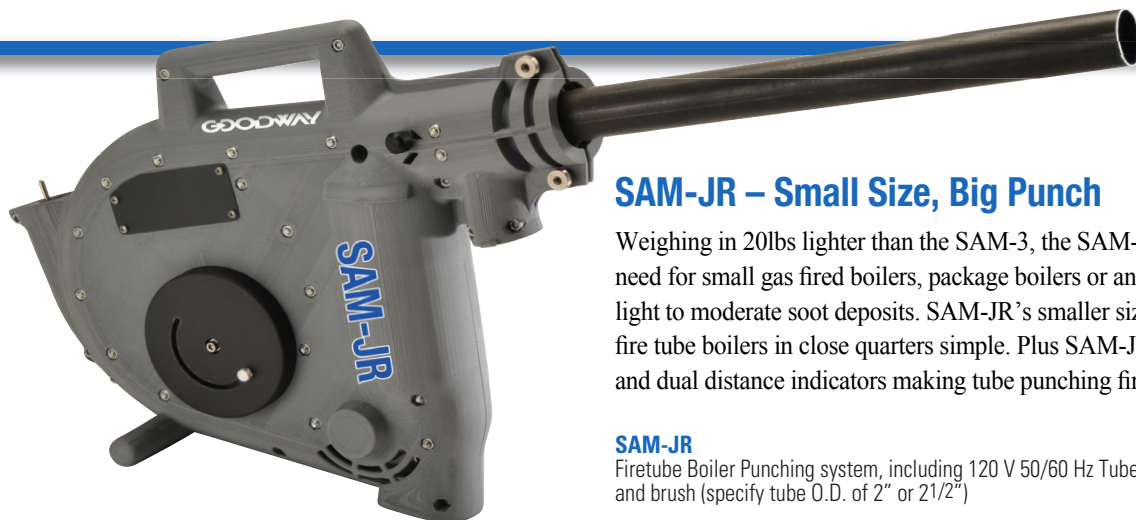
High performance nitrite based formula protects tubes against corrosion. Easy to handle, simple to dose, and environmentally friendly.

Note: See page 192 for product information.



Package Boilers Cruiserweight Champion

A NEW TUBE PUNCHER THAT'S SMALLER, LIGHTER AND JUST AS QUICK!



SAM-JR – Small Size, Big Punch

Weighing in 20lbs lighter than the SAM-3, the SAM-JR is the cleaning system you need for small gas fired boilers, package boilers or any smaller fire tube boiler with light to moderate soot deposits. SAM-JR's smaller size and weight makes cleaning fire tube boilers in close quarters simple. Plus SAM-JR features a "dial in" tube length and dual distance indicators making tube punching fire tube boilers even easier!

SAM-JR

Firetube Boiler Punching system, including 120 V 50/60 Hz Tube Punching machine, 18" Straight nozzle and brush (specify tube O.D. of 2" or 2 1/2")

SAM-JR -A

Firetube Boiler Punching system, including 230 V 50/60 Hz Tube Punching machine, 18" Straight nozzle and brush (specify tube O.D. of 2" or 2 1/2")

FEATURES

- > Preset brush travel
- > Dual distance indicators
- > Rear-mounted power switch
- > Slip clutch
- > Quick change tape system for easy maintenance of unit
- > Light weight
- > Cleans up to 16' long by 2 – 2 1/2" OD tubes
- > Collapsing Brush



Accessories:

S4-BRUSH-200 Brass Brush for 2" O.D. tube

S4-BRUSH-250 Brass Brush for 2 1/2" O.D. tube

S4-NOZ-200 18" Straight Nozzle for 2" O.D. tube

S4-NOZ-250 18" Straight Nozzle for 2 1/2" O.D. tube

GTC-170S-OD Hose, 2" x 12' with sleeve, quick connect and washer for attaching to vacuum cleaner (not for use with SootVac-JR)



Specifications	SAM-JR
Motor Power	0.6 HP
Input Power	Standard: 8 amps, 120 V, 50/60 Hz AC Optional: 4 amps, 230 V, 50/60 Hz
Usable Tape Length	16'
Power Supply Cord	12', 18-3
Dimensions	18" high x 8" width x 23" length
Weight	20 lbs



SootVac®-JR – Big Time Performance

In SAM-JR's corner collecting all that soot is SootVac-JR. Mounted on a sturdy dolly and weighing only 20 pounds, lifting and portability is a breeze. Handling fine soot dust is no problem with a washable high efficiency cartridge filter protected by a 10 micron filter bag ensuring soot stays in the collection tank. Designed for gas fired or light deposits, an inner plastic bag makes collection, sealing and disposal simple. Included accessories make the SootVac-JR a perfect solution for cleanup around the boiler room.

SootVac-JR

Vacuum Cleaner 115 V 50/60 Hz, on 7 gallon stainless steel tank and dolly with 8' hose for connection to the SAM-JR with crevice tool, floor tool, round brush

SootVac-JR-A

Vacuum Cleaner 230 V 50/60 Hz, on 7 gallon stainless steel tank and dolly with 8' hose for connection to the SAM-JR with crevice tool, floor tool, round brush

Accessories:

8052 10 micron filter protector

BV-5-18 Washable high efficiency (to 0.3 micron) cartridge filter

POLY-H-JR-10 Plastic Collection bags, pack of 10



FEATURES

- > 8' collapsible hose
- > Disposable plastic collection bag
- > 10 micron filter protector
- > Washable high efficiency 0.3 micron cartridge filter
- > Stainless steel tank and carry handle
- > Dolly

Specifications	SootVac-JR
Motor Power	1 HP
Input Power	Standard: 6.7 amps, 115 V, 50/60 Hz Optional: 4 amps, 230 V, 50/60 Hz
Power Supply Cord	6', 18-3
Static Water Lift	60"
Air Displacement	100 CFM
Filtration	10 micron filter protector High efficiency (to 0.3 micron) cartridge filter
Tank	7 gallons stainless steel
Dry Capacity	4 gallons
Noise Level	89 dBA
Dimensions	20" diameter tank x 24" high
Weight	20 lbs

Waterside Boiler Maintenance:

TUBEGUARD™ BLRX & TUBEGUARD™ BLR

High performance nitrite based formula protects tubes against corrosion. Easy to handle, simple to dose, and environmentally friendly.

Note: See page 192 for product information.

