



IS SERIES

96, 144 & 196

S-TURN GARMENT FINISHER

AVAILABLE IN GAS OR STEAM MODELS



LEONARD AUTOMATICS, INC.

"our reputation is stainless"®

As leading innovators in tunnel finisher design and construction, we work hard to continually improve our products. It is the goal of Leonard Automatics to provide you with equipment made from the highest quality materials, so you can be assured the equipment you purchase will provide years of trouble-free service.

We first began offering our straight through tunnel finishers in 1992. Since then, they have proven to be as reliable as they are productive.

The “S-Turn” is our newest development in this highly successful line of tunnel finishers. Unveiled in 2005, it was quickly recognized as an evolutionary step forward.

And because all IS Series tunnels are built with modularity in mind, your new tunnel will grow as your business does. Like all Leonard tunnels, the IS Series is built to be the last tunnel you will ever need to buy.

Several design features have been combined to form the steam zone for the **IS Series** finisher. This new “S-Turn” design provides superior quality in the same footprint of previous designs. Executing two back-to-back

90 degree turns, the garments fan open exposing their centers to direct steam injection. The result is deeper penetration of steam to the center of the garment and better saturation of the fibers to facilitate the finishing process.



S-Turn Technology

The finishing of a garment starts **in the steam chamber**.

The design of our steam

header creates a higher velocity of steam that carries more energy and achieves proper finishing temperature faster. More steam heat is delivered to the garment resulting in **better temperature** rise without increasing floor space requirements. The steam tube configuration fully surrounds the garment with steam.

“our reputation is stainless”[®]

And, so is our equipment. Just like the rest of our tunnels, the IS Series is constructed of stainless steel panels to provide the high level of corrosion resistance needed for continued operation in the extreme environment of an industrial laundry.



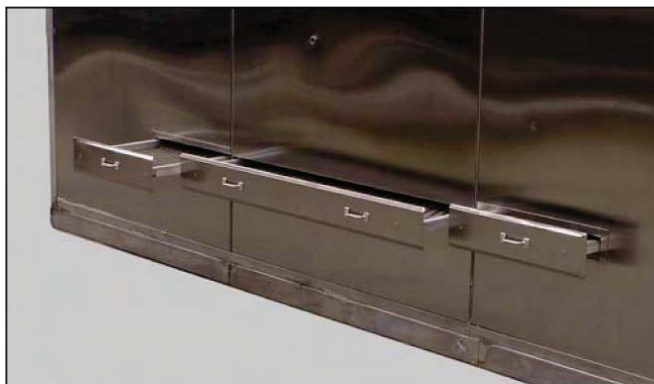


PLC Control System

Leonard Automatic is proud to feature the **PLC Interface Control Center** on our IS Series gas heated tunnel finishers. The touch screen allows for intuitive and straightforward access to all tunnel operational controls. Features include automated troubleshooting, maintenance schedules, alarm logs, PM schedule, runtime history and much more. **Total tunnel control** is now at your fingertips.

Filtration

The lint filters on the IS Series are accessible from **outside the tunnel** so that important filter maintenance can be preformed easily without shutting down the tunnel. The filter screens are made with stainless steel mesh to help remove lint from the air flow.



OTHER IS SERIES FEATURES AND OPTIONS

- ***Automated trouble-shooting***
- ***Automated maintenance scheduling and prompts***
- ***Password Protected Admin Functions***
- ***Maintenance history***
- ***Automated over-temperature shut-down***
- ***Lint filter monitoring***
- ***Ethernet module***
- ***Factory installed exhaust system***
- ***External steam header***
- ***External wiring***
- ***Garment Processing Formulas***
- ***Adjustable air louvers***
- ***Infrared temperature control***
- ***Missed Plow Off Safety Switch***
- ***Pacer Production Management System***
- ***UL Listed Control Panel***

TECHNICAL SPECIFICATIONS

	IS-96SH	IS-96GH	IS-144SH	IS-144GH	IS-196SH	IS-196GH
Machine Size						
Length (in/mm)	132 / 3,353	132 / 3,353	179 / 4,547	179 / 4,547	225 / 5,715	225 / 5,715
Width (in/mm)	60 / 1,524	60 / 1,524	60 / 1,524	60 / 1,524	60 / 1,524	60 / 1,524
Height (in/mm)	102 / 2,590	102 / 2,590	102 / 2,590	102 / 2,590	102 / 2,590	102 / 2,590
Weight (lbs/kg)	2,900 / 1,318	2,900 / 1,318	3,500 / 1,590	3,500 / 1,590	4,000 / 1,818	4,000 / 1,818

Electrical Service

Standard Voltage	230 or 460v / 60hz / 3ph					
Full Load Amps	15 / 9	15 / 9	35 / 19	35 / 19	40 / 21	40 / 21

Steam Requirements

Usage (bhp/hr)	20	10	22.5	10	25	10
Usage (kg/hr)	313	157	352	157	391	157
Maximum Pressure (psi/bar)	125	125	125	125	125	125
Steam Line (in/mm)	1	1	1	1	1	1
Return Line (in/mm)	0.5 / 12.5	0.5 / 12.5	0.5 / 12.5	0.5 / 12.5	0.5 / 12.5	0.5 / 12.5

Gas Requirements

Operating Pressure (w.c)	n/a	8.7	n/a	8.7	n/a	8.7
Operating Pressure (mb)	n/a	22	n/a	22	n/a	22
Burner Rating (btu/hr)	n/a	1,000,000	n/a	1,000,000	n/a	1,000,000
Burner Rating (kW)	n/a	293	n/a	293	n/a	293
Average Usage (btu/hr)	n/a	150,000	n/a	220,000	n/a	292,000
Average Usage (kW)	n/a	44	n/a	65	n/a	86

Ventilation Requirements

Exhaust Duct Size (in/mm)	12 / 305	12 / 305	12 / 305	12 / 305	12 / 305	12 / 305
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*Please consult layout drawings for detailed dimensions including conveyor, control panels and utility connections.
Specifications subject to change without notice.
Manufactured in the U.S.A.
Updated: 04/15/11

