

## Flatwork Technology. Ease of use.

### Integrated Vacuum Feed Aid.

The Integral Feed Aid marks an important development in the field of high production flatwork ironing. We are the first manufacturer to develop a fully integrated feed aid to be incorporated as an option into our high specification ironers. The benefits of an integral feed aid over the alternative add-on feeder are many;

- Lower capital cost; the additional cost of the integral feed aid is often less than the cost of the equivalent add-on feeding equipment.
- Vacuum-aided feed bands feed direct into the ironer maintaining tension by avoiding band-to-band interchange of add-on units.
- The feeder is always synchronised with the ironer as the drive is taken direct from the first ironer roll gearbox.
- The ironer will accept either large or small work without adjustment of the machine.

### The principle elements of this feed aid are:

- Constant suction on the feed table to hold the workpiece on to the feed bands.
- A high intensity suction trough to smooth the workpiece and provide longitudinal tension to the sheet tail.
- A high speed roller to transfer the tail of the workpiece into the suction trough.
- A curved drag plate to provide tension across the width of the workpiece.
- Constant synchronisation between feed bands and rolls is ensured by a direct drive from the first roll gearbox.

### Ease of use:

The operator is required only to lay the leading edge of the workpiece on to the feed bands where it is fed directly into the ironer bed. The tail of the sheet is then fed automatically under constant longitudinal and crosswise tension, from the suction through via the drag plate.

As no further attention is required after laying the leading edge, unlike the conventional ironer feed, the operator is immediately free to pick up the next item, thereby achieving far higher production rates.

Improved crease-free quality results from the automatic smoothing / stretching effect of the suction trough and drag plate, together with the suction feed bands deliver direct to the ironer bed.

The feeding aid services can be switched off to allow the feed bands to operate as on a conventional ironer when, for example, high speed sheet spreader / feeders are being used.



"Our laundry products are an investment in lowering operating costs and improving the profitability."

Mark Thrasher, President of Lavatec Laundry Technology Inc.

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## Flatwork Technology



Lavatec Laundry Technology  
Laundry Systems Made in Europe

A list of our international distributors is available on [www.lavatec-laundry.com](http://www.lavatec-laundry.com)

**LAVATEC**  
Laundry Technology Inc.



**Flatwork Ironers**

We boast a portfolio of ironers which range from a 500mm diameter single roll return-feed to a 1300mm diameter flatwork ironer capable of ironing 52 meters of work per minute with standard widths of 3.0, 3.3, 3.6 and 4.0 meters. A comprehensive range of 1 – 4 roll ironers available in oil, gas, and steam-heated varieties, designed for optimum thermal performance to produce a high quality finish with superior production rates.

- Minimum energy needs for drive system
- PLC touch screen controls
- Simple, electronic variable speed motor and drive system providing quiet, efficient, slip-free transition
- Inclined, ergonomically designed feed table for safe, efficient hand or mechanical feeding
- Centralised moisture extraction system
- Thermally insulated
- Removable side covers for external servicing

Our ironer is the result of a complete reappraisal of the fundamental principles of flatwork ironer design and construction that has resulted in employment of the latest technology in its operation and manufacture.

This development enables us to advance our already high reputation for the manufacture of flatwork ironers that are reliable, economic to run, give high production and comply with European and American regulations.

We retain the traditional rigid deep chest design to ensure many years of working life without risk of failure.

The gas heated machine provides an efficient self-contained ironing system without the need for steam services.

The thermal oil machine is available for laundries already using a central thermal oil system.

**Flatwork Ironer features:**

- Optimised bed design that ensures efficient operation over a wide range of conditions
- Pneumatic raising and automatic aligning of beds and rolls
- Integrated design of rolls and beds to ensure uniform heat transfer thus optimising clothing life
- Chest contours that eliminate gap pieces

**Return Feed Ironer**

In addition to the range of 1 – 4 roll flatwork ironers, we offer a compact and efficient return feed ironer also available in gas, electric and steam-heated varieties.

In contrast to the larger diameter pass-through machines, the return feed machine passes work back through to the front of the unit. This not only reduces the need for multiple operators, it also means the units can be installed in tighter spaces than a standard flatwork pass-through machine.

Available in widths from 1.75 to 3.6 meters and capable of processing up to 5 metres of work per minute, the return feed ironer is the ideal choice for your flatwork requirements

**Return Feed Ironer features:**

- The return feed ironer retains all of the technical features of the large diameter machines
- Easy installation
- Occupies minimal floor space
- Easy to operate – minimum operator training
- Economic to run
- Gives high quality 'deep chest' ironing
- Fast, efficient service and spare parts back-up
- Choice of steam, gas and electrically heated models

	600 Dimensions			850 Dimensions				1050 Dimensions				1300 Dimensions			500 Dimensions
Number of Rolls	1	2		1	2	3	4	1	2	3	4	1	2	3	1
Length - A	1575mm	2425mm		1836mm	2936mm	4036mm	5136mm	2036mm	3336mm	4636mm	5996mm	2286mm	3836mm	5447mm	1060mm
Width - B	3.0M	4235mm	4235mm	4158mm	4158mm	4158mm	4158mm	4158mm	4158mm	4158mm	4158mm	4156mm	4156mm	4156mm	3880mm
Width - B	3.3M	4536mm	4536mm	4458mm	4458mm	4458mm	4458mm	4458mm	4458mm	4458mm	4458mm	4456mm	4456mm	4458mm	4180mm
Width - B	3.6M	4837mm	4837mm	4758mm	4758mm	4758mm	4758mm	4758mm	4758mm	4758mm	4758mm	4756mm	4756mm	4768mm	4480mm
Width - B	4.0M	n/a	n/a	5058mm	5058mm	5058mm	5058mm	5058mm	5058mm	5058mm	5058mm	n/a	n/a	n/a	n/a
Height - C	1725mm	1725mm	1610mm	1610mm	1610mm	1610mm	1610mm	1665mm	1665mm	1665mm	1665mm	1781mm	1781mm	1781mm	1270mm
Working width	Technical 3.0 M, 3.3M, 3.6M			Technical 3.0M, 3.3M, 3.6M, 4.0M				Technical 3.0M, 3.3M, 3.6M, 4.0M				Technical 3.0M, 3.3M, 3.6M			Technical
Roll diameter	600mm			850mm				1050mm				1300mm			500mm
Speed range	0.5-10M/min		0.5-18M/min	0-15M/min	0-28M/min	0-38/min	0-44M/min	0-25M/min	0-35M/min	0-45M/min	0-55M/min	0-30M/min	0-40M/min	0-52M/min	0.5-5M/min
Evaporative capacity	3.0M	85 Kg/hr	170Kg/hr	140Kg/hr	280 Kg/hr	420 Kg/hr	560 Kg/hr	175 Kg/hr	350 Kg/hr	520 Kg/hr	695 Kg/hr	214 Kg/hr	428 Kg/hr	642 Kg/hr	65 Kg/hr
	3.3M	93 Kg/hr	187 Kg/hr	154 Kg/hr	308 Kg/hr	462 Kg/hr	616 Kg/hr	192 Kg/hr	385 Kg/hr	572 Kg/hr	765 Kg/hr	235 Kg/hr	471 Kg/hr	706 Kg/hr	72 Kg/hr
	3.6M	102 Kg/hr	204 Kg/hr	168 Kg/hr	336 Kg/hr	504 Kg/hr	672 Kg/hr	210 Kg/hr	420 Kg/hr	624 Kg/hr	834 Kg/hr	257 Kg/hr	514 Kg/hr	770 Kg/hr	87 Kg/hr
	4.0 M	n/a	n/a	187 Kg/hr	373 Kg/hr	560 Kg/hr	747 Kg/hr	233 Kg/hr	467 Kg/hr	693 Kg/hr	927 Kg/hr	n/a	n/a	n/a	n/a
Air pressure	5.5-7 Bar			5.5-7 Bar				5.5-7 Bar				5.5-7 Bar			5.5-7 Bar
Air consumption (free air lift cycle)	16 Litres	32 Litres		34 Litres	48 Litres	72 Litres	96 Litres	24 Litres	48 Litres	72 Litres	96 Litres	48 Litres	96 Litres	144 Litres	10 Litres
Electrical supply (standard)	380-415 Volts 3ph + N/50Hz			380-415 Volts 3ph + N/50Hz				380-415 Volts 3ph + N/50Hz				380-415 Volts 3ph + N/50Hz			380-415/3/50
Suction outlet (OD)	150mm			200mm				200mm				200mm			75mm
Steam inlet (NB)	40mm			50mm				65mm				65mm			20mm
Air inlet (NB)	6mm			10mm				10mm				10mm			6mm
Steam pressure	Technical- Steam 6-10 Bar			Technical- Steam 6.2-18.8 Bar				Technical- Steam 6.2-13.8 Bar				Technical- Steam 6.2-13.8 Bar			Technical - Steam 6.2-18.8 Bar
Electrical consumption (max.)	2.1kW	3.2kW		4.7kW	8.0kW	23.5kW	17.5kW	8.0kW	13.5kW	17.5kW	24.5kW	8.0kW	13.5kW	24.5kW	1.0kW
Steam consumption (max.)	3.0M	135 kg/hr	270 kg/hr	180 Kg/hr	360 Kg/hr	520 Kg/hr	695 Kg/hr	225 Kg/hr	450 Kg/hr	645 Kg/hr	860 Kg/hr	275 Kg/hr	550 Kg/hr	825 Kg/hr	105 Kg/hr
	3.3M	149 Kg/hr	297 Kg/hr	198 Kg/hr	396 Kg/hr	572 Kg/hr	765 Kg/hr	248 Kg/hr	495 Kg/hr	710 Kg/hr	946 Kg/hr	303 Kg/hr	605 Kg/hr	908 Kg/hr	115 Kg/hr
	3.6M	162 Kg/hr	324 Kg/hr	216 Kg/hr	432 Kg/hr	624 Kg/hr	834 Kg/hr	270 Kg/hr	540 Kg/hr	774 Kg/hr	1032 Kg/hr	330 Kg/hr	660 Kg/hr	990 Kg/hr	126 Kg/hr
	4.0m	n/a	n/a	240 Kg/hr	480 Kg/hr	693 Kg/hr	927 Kg/hr	300 Kg/hr	600Kg/hr	860 Kg/hr	1147 Kg/hr	n/a	n/a	n/a	n/a
Condense outlet (NB)	25			50				50				50			20
Gas burner output	Technical - Gas 180kW		180kW x 2	180kW	180kW x 2	n/a	n/a	180kW	180kW x 2	n/a	n/a	180kW	180kW x 2	n/a	58kW
Heater exhaust outlet diameter	150mm		150mm x 2	150mm	150mm x 2	n/a	n/a	150mm	150mm x 2	n/a	n/a	150mm	150mm x 2	n/a	100mm
Gas connection	25mm		25mm x 2	25mm	25mm x 2	n/a	n/a	25mm	25mm x 2	n/a	n/a	25mm	25mm x 2	n/a	12mm
Suction outlet (OD)	200mm		200mm x 2	200mm	200mm x 2	n/a	n/a	200mm	200mm x 2	n/a	n/a	200mm	200mm x 2	n/a	75mm
Electrical consumption (max.)	5.5kW		9kW	9kW	18.5kW	n/a	n/a	12.5kW	24kW	n/a	n/a	12.5kW	24kW	n/a	3.0kW
Length - A (other dimensions as above)	1614mm		2441mm	2037mm	3380mm	n/a	n/a	2295mm	3595mm	n/a	n/a	2300mm	4095mm	n/a	1060mm
Electrical consumption (max.)	Technical - Thermal Fluid 2.1kW		3.2kW	4.7kW	8.0kW	13.5kW	17.5kW	8.0kW	13.5kW	17.5kW	24.5kW	8.0kW	13.5kW	24.5kW	n/a
Oil flow rate	17M <sup>3</sup> /hr		17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	17M <sup>3</sup> /hr	n/a
Oil back pressure	3.0M	1.3 Bar	2.6 Bar	1.7 Bar	3.5 Bar	5.0 Bar	7.0 Bar	2.2 Bar	4.3 Bar	6.5 Bar	8.7 Bar	2.5 Bar	5.0 Bar	7.5 Bar	n/a
	3.3M	1.4 Bar	2.8 Bar	1.9 Bar	3.8 Bar	5.5 Bar	7.7 Bar	2.4 Bar	4.7 Bar	7.2 Bar	9.6 Bar	2.8 Bar	5.5 Bar	8.3 Bar	n/a
	3.6M	1.6 Bar	3.2 Bar	2.1 Bar	4.2 Bar	6.0 Bar	9.3 Bar	2.6 Bar	5.2 Bar	7.8 Bar	10.5 Bar	3.0 Bar	6.0 Bar	9.0 Bar	n/a
	4.0M	1.7 Bar	3.8 Bar	2.3 Bar	4.7 Bar	6.7 Bar	8.4 Bar	2.9 Bar	5.7 Bar	8.7 Bar	11.6 Bar	3.3 Bar	6.7 Bar	10.0 Bar	n/a
Energy required (BTU's)	3.0M	560000	1060000	800000	1500000	2200000	3000000	1000000	2000000	3000000	4000000	1200000	2400000	3600000	n/a
	3.3M	620000	1160000	880000	1650000	2420000	3300000	1100000	2200000	3300000	4400000	1320000	2640000	3960000	n/a
	3.6M	680000	1270000	960000	1800000	2640000	3600000	1200000	2400000	3600000	4800000	1440000	2880000	4320000	n/a
	4.0M	750000	1400000	1070000	2000000	2930000	4000000	1330000	2660000	4000000	5300000	n/a	n/a	n/a	n/a
Volume of oil per chest	3.0M	45 litres	45 litres x 2	77 litres	77 litres x 2	77 litres x 3	77 litres x 4	94 litres	94 litres x 2	94 litres x 3	94 litres x 4	115 litres	115 litres x 2	115 litres x 3	n/a

