

# MAXIFINISH

**13•16•20•24**

## **Mid-Range Flatwork Ironers**

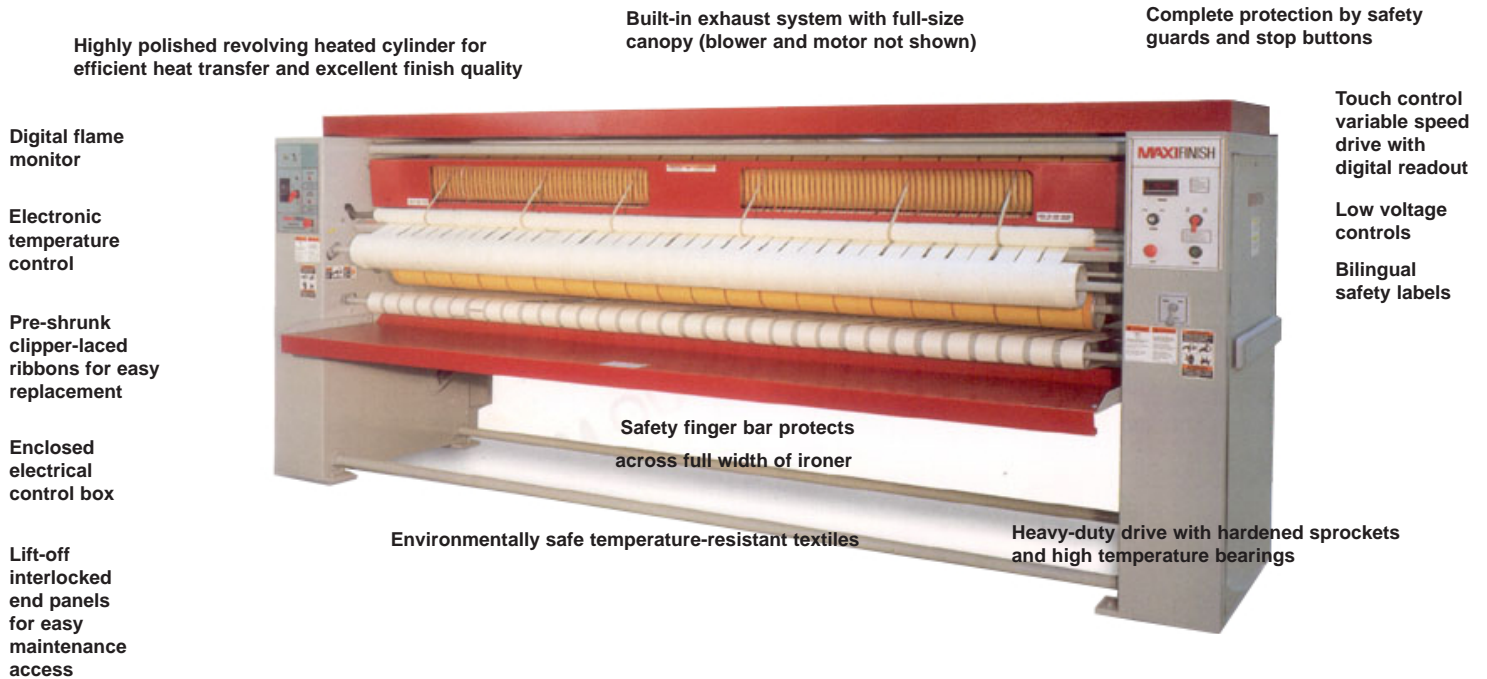


### **State-of-the-Art Flatwork Finishing with patented Eagle Eye™ temperature control for the best in ironing performance and reliability**

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Maxi Finish mid-range ironers offer more power and performance than ever with the latest features developed from Maxi's experience as the world's largest and most experienced manufacturer of heated roll ironers. Gas, steam, and electrically heated models are available in a choice of 13" (330mm), 16" (400mm), 20" (500mm) or 24" (600mm) diameter ironing rolls. Roll lengths from 60" (1524mm) to 135" (3430mm) long are offered to efficiently process any size linen.

# Traditional Quality Features



## All models feature high efficiency AC frequency variable speed drive with these important advantages:

- Touch-control speed dial for smooth speed changes with extended speed ranges to suit today's wide variety of fabrics and moisture retentions
- Soft-start ramps up to desired ironing speed with less stress on drive components - including sprockets, bearings, shafts and chain
- Digital speed indicator for accurate speed setting and monitoring
- Jog forward/reverse for flexibility and easier maintenance
- Streamlined drive reduces chain and sprockets by 50%
- No variable speed pulley, handle, or motor brushes to require service or replacement
- Dynamic braking - no brake shoes, linings, or discs to maintain

## Choice of Three Heat Sources

### Steam Heated Models

- Ideal for installations with existing boiler providing 90 to 125 psi (6.2 - 8.6 bar). (Less pressure provides proportionally less drying power)
- Simple design provides uniform heat across entire ironing surface
- ASME certified and stamped welded heated cylinder meets insurance and local code requirements (Maxi factory is an ASME approved welding facility)
- Dependable heavy-duty rotary union admits steam and discharges condensate
- Furnished with flexible inlet/return hoses, all internal piping, and steam trap
- Full exhaust canopy with blower and motor is a recommended option

### Output Speeds:

**Model 13** 8 to 36 FPM (2.5 to 11 m/min)

**Model 16** 8 to 45 FPM (2.5 to 14 m/min)

**Model 20** 8 to 50 FPM (2.5 to 15 m/min)

**Model 24** 12 to 70 FPM (4 to 21.5 m/min)

### Electrically Heated Models

- Electric heating elements with reflectors mounted inside revolving cylinder for smooth, trouble-free switching
- Adjustable thermostat automatically cycles current to heating elements to maintain ironing temperature while conserving electricity
- Used where electricity is best energy source
- Three phase operation normally required
- Full exhaust canopy with blower and motor is a recommended option

# MAXIFINISH

Since 1886, Maxi has been designing equipment to dry and finish linen. During this time, Maxi pioneered the

development of the heated cylinder ironer and has been the acknowledged leader in this field for over 70 years. The knowledge gained from thousands of Maxi installations around the world helps Maxi's engineers continuously improve products to maintain the Company's position as the leading innovator in flatwork finishing.

**Mid Range Line - offering more value to the customer through faster processing, greater reliability, higher efficiency and simpler service than ever before.**

Maxi Finish's state-of-the art gas burner system brings new levels of reliability to the end user, while maintaining the optimum drying performance levels of Maxi Finish's gas heated ironers which are legendary for their dried linen output. As the most powerful ironers in their size range, they offer up to twice as much drying power as models with atmospheric (natural draft) burners used on low production ironers. Maxi's extra drying power means that wet linen can be ironed at faster speeds so operators finish sooner. FTE hours

## Gas Heated Ironers

- Highest production and efficiency of all heat sources
- Models available for all types of natural and LP gas
- Adjustable thermostat automatically cycles pre-purge, blower, and gas to match production rate, moisture and speed, while minimizing gas consumption
- Specially balanced blower circulates combustion air to ensure the most efficient mix of air and gas at burner ports to create a hot and consistent flame
- Electronic temperature controller displays both actual temperature and ironing set point
- Flame is proven by non-contact UV scanner (without touching the flame) so there is no flame rod or flame rod wire to maintain
- High maximum BTU input when additional drying power is required
- Digital flame signal monitor simplifies service
- Full exhaust canopy with blower and motor removes excess moisture and combustion by-products
- Electronic ignition and flame safeguard protection for instant shutdown in event of a problem
- Recommended ironing temperature 325° to 375°F (165°C-190°C) for highest productivity
- Testing laboratory approvals accepted in U.S., Canada, and other countries

are reduced for a faster equipment pay back period, and less gas is consumed per pound of dried and ironed linen.

## The Power Behind the Power Production Series

Correct quantities of air and gas are injected and mixed to create a richer flame which delivers more effective BTU's per square inch of ironing surface so that the ironing cylinder heats and recovers faster as wet linen is processed. Peak combustion efficiency and a hotter flame enable the evaporative capacity of the ironer to match the strong cooling effect of wet linen at higher speeds, while also consuming as little gas as possible relative to the amount of drying and ironing performed. The result is up to 100% more production than atmospheric burners used on light-duty ironers relying only on random air flow with limited BTU input.

The power burner system also burns more cleanly and removes combustion by-products from the laundry room through a canopy blower vented to the outside. This commitment to operator safety and comfort is another reason why Maxi Finish is the only manufacturer whose entire gas-heated product line has earned the certification labels of testing laboratories accepted throughout the United States, Canada, and other countries. Our experience ensures that burner size, cylinder diameter, and speed ranges are properly matched for maximum drying capacity and efficiency.



## Maxi Finish's Exclusive Touchless Temperature Control

Maxi has designed and built more gas heated ironers than anyone in the world and now redefines gas temperature control with its patented Eagle Eye touchless temperature control system. This electronic technology eliminates mechanical contact shoes, high temperature limit switches and temperature fluctuations due to excessive wear, wax/lint buildup, or lack of maintenance. There are no mechanical parts to wear out because all temperature measurement and control is performed electronically from outside the heated cylinder without touching the ironing surface or coming in contact with lint, wax, chemicals or moving mechanical parts.

Temperature control is not affected by lane configuration or mechanical adjustments because Eagle Eye constantly monitors digital temperature signals from a wide band of the ironing surface to ensure the most accurate control possible in a gas or electrically heated ironer. Precise burner control and quicker response time also mean higher efficiency because the burner can closely mirror the exact heating requirements called for by the speed, moisture retention and handling patterns of linen being processed.

## Maxi Finish 13•16•20

### Available cylinder lengths:

**60", 85", 100", 110", 120", 135"**

(1524mm, 2160mm, 2540mm,  
2794mm, 3050mm, 3430mm)

Determining the correct Maxi Finish model for a specific installation requires a detailed analysis of piece counts and sizes, moisture retention, labor costs, floor space, utilities, potential future growth, and budget guidelines. With an unequaled selection of heat sources, cylinder sizes, and Type R (front or rear) or Type F (front) models to choose from, there is a Maxi Finish model perfectly matched to the needs of any size laundry.

MF-13 is the basic ironer for laundries requiring economical full length ironing. MF-16 offers 23% more ironing contact and drying power to handle items at more efficient speeds. MF-20 offers 25% more ironing surface contact and BTU drying power than the MF-16 for faster processing of sheets, table linen or pillow cases with higher moisture retention.

The 60", 85", and 100" lengths are used primarily for table linen or where floor space is limited. The 110" length is the most popular choice for general use and is recommended for sheets and table linen. This length can normally accommodate queen and king size sheets, or two lanes of 54" tabletops, as well as smaller items. For laundries processing large table cloths or all king size sheets, the 120" length is recommended. For laundries processing large banquet cloths, the 135" (3430mm) length is available.

When considering a Type R ironer, rear operators are added if the ironer's drying power can keep up with the higher speeds and production required to justify the incremental cost. A Maxi Finish professional is the best source of reliable sizing help.

## MF-24

### Available cylinder lengths:

**110", 120", 135"**

(2794mm, 3050mm, 3430mm)

MF-24 offers over 60% more BTU drying power, 20% more ironing contact, and a heavy-duty drive system twice as powerful as that of the MF-20 for higher speed processing of sheets and table linen. Type R ironers are capable of delivering ironed linen either to the rear (receiving shelf or automatic folder) or to the front for handling by feed operators when smaller pieces are being processed or load conditions are light. Type F models return linen to the front only.

At the middle of Maxi Finish's complete ironer range, MF-24 is normally the smallest Maxi ironer for which a separate automatic folder is recommended to maximize production, labor savings and quality.



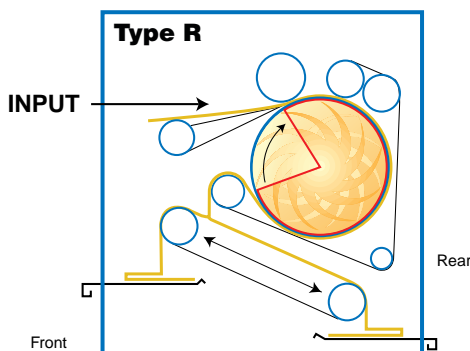
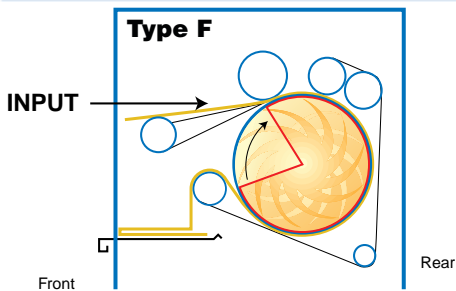
## Why Iron?

There are two reasons why ironing is more popular than ever for all types of linen.

**QUALITY** For the very finest operations where all-cotton linen is used, ironing is obviously required. When using blended or VISA® linen, there is still no substitute for the appearance and feel that only a crisply ironed tabletop, napkin, pillowcase, or sheet can provide. Ironed linen conveys a message of quality and cleanliness: that an establishment is "first class" all the way. This is especially true where linen is exposed to constant usage and washings which quickly take a toll on its appearance. "Tumble dried only" linen often gives the impression that it has already been used by a previous guest.

**EFFICIENCY** Ironing is the most efficient method of removing moisture from flatwork. Maxi Finish equipment is economical because it is designed to finish linen directly from the washer-extractor, thus eliminating or reducing the time, energy consumption, and extra handling required by tumble drying. Maxi Finish ironers actually perform three functions on wet linen in one continuous process: drying (removing moisture), ironing (removing wrinkles), and finishing (creating a fine gloss finish). An ironer uses moisture left in extracted flatwork in order to remove wrinkles and create a "finished look" on linen. When ironing, wet linen does not have to be tumble dried first, so there is no chance for wrinkles or creases to set in while dried linen waits in a dryer or laundry cart before folding. The labor time, capital expense, and extra BTU usage normally consumed by one or more additional dryers can also be eliminated when ironing.

## Why Maxi?



Maxi Finish ironers are designed to dry and iron sheets, pillowcases and table linen made from polyester/cotton, cotton, and other quality flatwork fabrics, including VISA®. No commercial ironer will produce a finer quality finish because ironing is performed by continuous contact between wet linen and Maxi Finish's revolving heated cylinder, compression roll and return ribbons. These diagrams illustrate the path of linen through the ironer. Flatwork is placed on the feed ribbon conveyor and carried under the spring tension compression roll (which smoothes and flattens it) and into contact with the revolving ironing cylinder.

The key to the Maxi Finish ironing system is that the padded compression roll and return ribbons run faster than the revolving heated cylinder and feed ribbons. As the heated cylinder continues to move, the faster running return ribbons create a stretching action which pulls linen tight to remove wrinkles and improve flatwork finish. Return ribbons hold flatwork in firm contact with the heated cylinder until the discharge point is reached at the other end of the circumference of the heated cylinder for a total linen-to-roll ironing contact of approximately 300°. This sliding contact of linen with the highly-polished revolving heated cylinder creates a fine gloss finish comparable to hand ironing.

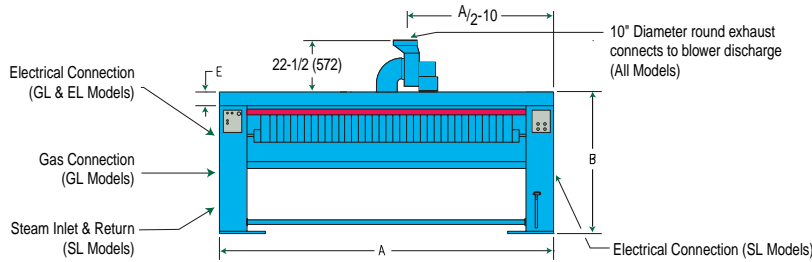
Type F models can be placed directly against a rear wall because all finished linen is discharged to a front receiving shelf. Type R models allow the user to select front or rear discharge by turning a switch. In rear mode, a lower conveyor delivers finished flatwork to a rear shelf or optional automatic folder. Type R models are desirable for laundries with adequate space behind the ironer, where load demand requires increased production and justifies rear operators.

# Dimensions and Utilities

USABLE IRONING CYLINDER LENGTH					
60" (1524)	85" (2159)	100" (2540)	110" (2794)	120" (3048)	135" (3429)

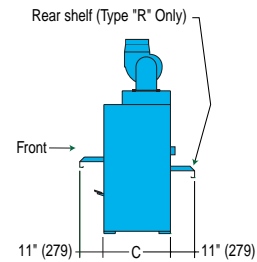
DIMENSION A: OVERALL IRONER LENGTH						
MODEL 13	97" (2464)	122" (3099)	137" (3480)	147" (3734)	157" (3988)	172" (4369)
MODEL 16	103" (2616)	128" (3251)	143" (3632)	153" (3886)	163" (4140)	178" (4521)
MODEL 20	103" (2616)	128" (3251)	143" (3632)	153" (3886)	163" (4140)	178" (4521)
MODEL 24	n/a	n/a	n/a	155" (3937)	165" (4191)	180" (4572)

All dimensions are in inches (mm). All utility connections are made at rear. Specifications subject to change without notice. Consult factory for construction floorplan and /or disassembled dimensions if installation access is limited.



B: Height w/ Canopy & Blower	C: Type F frame depth (add 11" for shelf)	D: Type R frame depth (add 22" for shelves)	GL Gas Inlet	SL Steam Inlet	SL Steam Return
59" (1499)	30" (762)	30" (762)	1"	3/4"	1/2"
62" (1575)	35" (889)	35" (889)	1"	3/4"	1/2"
64" (1626)	38" (965)	38" (965)	1"	1"	3/4"
72" (1829)	45" (1143)	45" (1143)	1-1/2"	1"	3/4"

E: Canopy height on Laser 24 is 6-1/4" (159).  
Canopy height on all other models is 4" (102).



Exhaust blower may be mounted on the canopy as shown or remotely. Proper exhaust into separate ducting to outside is required.

	Total Motor HP (kW) w/ Canopy	Ironing Length	GL Maximum BTU/hr*	SL Boiler HP	EL kW
MODEL 13	Type F	60" (1524)	120,000	1.6	12
GL	2.1 HP (1.6)	85" (2159)	165,000	2.5	16
SL, EL**	1.8 HP (1.3)	100" (2540)	185,000	3.0	20
Type R Add:	1/3 HP (.25)	110" (2794)	200,000	3.3	24
		120" (3048)	210,000	3.8	28
		135" (3429)	228,000	4.1	30

Ship Weight	3100lb (1407kg)	Speed	8-36 FPM (2.5-11m/min)
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	Total Motor HP (kW) w/ Canopy	Ironing Length	GL Maximum BTU/hr*	SL Boiler HP	EL kW
MODEL 16	Type F	60" (1524)	160,000	2.6	16
GL	2.1 HP (1.6)	85" (2159)	210,000	3.1	20
SL, EL**	1.8 HP (1.3)	100" (2540)	250,000	3.6	24
Type R Add:	1/3 HP (.25)	110" (2794)	280,000	3.7	28
		120" (3048)	300,000	4.2	32
		135" (3429)	325,000	4.6	35

Ship Weight	3500lb (1582kg)	Speed	8-45 FPM (2.5-14m/min)
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\* All GL models - Gas supply should be sized to satisfy maximum ironer input at correct pressure. Actual average gas usage will normally range from 40% to 70% of maximum figures shown as gas cycles on and off according to load factors such as poundage per hour, type of linen, moisture retention, speed, and feeding pattern. Consult a professional for make-up air requirements and proper exhaust duct design. \*\* All SL and EL models - deduct 1 HP(.75kW) if canopy is deleted.

	Total Motor HP (kW) w/ Canopy	Ironing Length	GL Maximum BTU/hr*	SL Boiler HP	EL kW
MODEL 20	Type F	60" (1524)	190,000	3.4	20
GL	2.1 HP (1.6)	85" (2159)	270,000	3.8	28
SL, EL**	1.8 HP (1.3)	100" (2540)	318,000	4.1	32
Type R Add:	1/3 HP (.25)	110" (2794)	350,000	4.4	36
		120" (3048)	375,000	4.8	40
		135" (3429)	406,000	5.2	44

Ship Weight	3800lb (1730kg)	Speed	8-50 FPM (2.5-15m/min)
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	Total Motor HP (kW) w/ Canopy	Ironing Length	GL Maximum BTU/hr*	SL Boiler HP	EL kW
MODEL 24	Type F	110" (2794)	590,000	5.5	n/a
GL	3.3 HP (2.5)	120" (3048)	620,000	6.0	n/a
SL, EL**	2.8 HP (2.2)	135" (3429)	672,000	6.5	n/a
Type R Add:	1/3 HP (.25)				

Ship Weight	4800lb (2180kg)	Speed	12-70 FPM (4-21.5 m/min)
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All shipping weights are for 110" models. Consult factory for exact weights of other lengths.



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