

wifag//polytype group

F88 – precision in every situation



The large platen universal
thermoformer for shallow products

Two versions for different types of products/materials

The F88 is an automatic large-size (forming area: 1280 x 750 mm) thermoformer, whose special feature is its modular configuration. The F88 can be supplied in two different versions:



SELECTION OF MOST WIDELY USED PRODUCTS – CHARACTERISTICS

SHAPE	PRODUCT	CAVITATION	WEIGHT (G)	CPM	PCS/H
	PS 220 mm plate (5 x 3)	15	8.2	46	41.400
	PS 210 mm plate (5 x 3 L)	15	7.5	46	41.400
	PS 170 mm plate (6 x 4 L)	24	4.7	46	66.200
	PET 190 x 130 mm Hinged fruit box	30	20	31	56.000



Technical Specifications of THERMOFORMER - In Mould Trim

Materials	PS - PP - PET - PLA	
Max. forming area	mm	1.280 x 750
Max. sheet width	mm	1380
Sheet thickness	mm	0,15 - 1,00
Max. forming depth	mm	50 (90)
Max. positive forming	mm	15
Forming with compressed air	bar	6
Cycles	strokes/min	46
Oven size	mm	3.000 x 1.450
Mould closing force/Cutting Force	daN	60.000
Max. cutting length	mm	15.000
Max. air consumption (H. 50)	NI/min.	12.000
Max. cooling required (at 8°-10°C) x PS	kcal/h	35.000 (Mould) 32.000 (Roll Stack)
Max. vacuum consumption (opt.)	m3/h	180
External dimensions	mm	5.500 x 2.400 x 3.200/h
Total installed motor power	kW	75 (without oven)

Single Station/In-mould Trimming (punch-and-die moulds), to produce plates, trays and lids in PS, PP, PLA and other biodegradable materials. In this version, the F88 machine features one-only forming and cutting station, where the products, after the forming phase, are partially trimmed. Trimming is performed along the full outer contour of the formed product, except in few points, where the product is still connected to the web. Then the products, hanging to the web by the said points, can thus be easily removed from the mould, exploiting the web motion. Subsequently the products are detached of the web, stacked and counted. Finally the stacks are transversally switched onto a motorized unloading conveyor.

The advantages of the above forming and (partial) cutting system are paramount:

- // Absolute cutting precision, thanks to the in-mould-trimming technique
- // Long duration of the cutting edges, thanks to the punch-and-die tool easy removal of the products from the mould, as the products are connected to the web by few points
- // Perfect cooling/stabilization process for the products, since they can freely cool down, without receiving any torsional stress from the web, given the minimum size of the "support" points.

According to the type of material used, and to the machine configuration (in-line, off-line), the F88 can be equipped with an integrated cooling/stabilizing roll-stack, and with a top-panel or a sandwich (top+bottom)oven.

Multi Station/Separate Trimming (steel-rule cutting moulds or punch-and die moulds), to produce trays, baskets, plates, boxes etc. in PET, PS, PLA and other biodegradable materials. In this version, the F88 features a forming station, an optional hole-punching station and a trimming station by steel-rule cutters. The products, after being formed at the first station, can be (optionally) hole-punched for venting purposes.

Then the products reach the trimming station where they are partially trimmed, according to the same technique explained at point a). Exploiting the web motion, the products are

removed from the trimming station and afterwards detached of the web, stacked and counted. Finally the stacks are transversally switched onto a motorized unloading conveyor.

The clear advantage of this system is assuring high product outputs with a reliable and simple ejection/stacking device, using either traditional punch-and-die tools or inexpensive steel-rule-cutting moulds. The optional punching station, provides for the venting-holes on-board punching facility, without any need of additional downstream equipments.

Polytype AG

26, route de la Glâne
CH-1701 Fribourg/Switzerland

Phone +41 26 426 11 11

info@polytype.com
www.polytype.com

OMV MACHINERY S.R.L Italy

Lungadige Attiraglio 67
I-37124 Parona - Verona/Italy

Phone +39 045 83 94 444

info@omvgroup.com
www.omvgroup.com

SWITZERLAND

WIFAG-Polytype Holding AG
Fribourg/Switzerland

Polytype AG
Fribourg/Switzerland

ITALY

OMV Machinery srl
Verona/Italy

BULGARIA

Mechatronica S.C.
Gabrovo/Bulgaria

AMERICA

Polytype America Corp.
Lincoln Park, NJ/USA

ASIA

Polytype Asia Pacific Co., Ltd.
Chachoengsao/Thailand

Wifag-Polytype India
Marketing Private Ltd.
New Delhi/India