FOLDING MACHINE FOR SYNTHETIC ITEMS
SIGMA

PRIMA FOLDER®

Sigma is an ideal machine for folding single sheets, draw-sheets, fitted sheets, fitted mattress covers, single blankets, pillowcases, towels, bath towels and in general flatwork in no-iron fabrics such as terry cloth, cotton blend, polyester and the like.
With the outside hem option and calibrated folds, Sigma is very versatile, even suitable for new flatwork packing lines.
All versions perform three primary folds and two cross folds, obtained by mechanical reversing technology, thus ensuring high fold quality and preventing problems due to electrostatic charges.

Features

• For folding flatwork in no-iron fabrics
• Ideal for new linen packaging lines
• Multiple versions available (1200, 1400, 1600, 1800, 2200)
• Touchscreen data management panel
• Three primary folds

• Two cross folds
• Vacuum belt conveyor
• LED indicator light at infeed position
• Infeed belt with operator-managed stop for difficult items
• Stacking with automatic stack forming belt alignment

Options

• Outer hem option
• Double stacking module for sorting two types of items
• Triple stacking module for sorting three types of items
• Infeed grippers
• Ethernet port for production data processing and remote service management in line with Industry 4.0 directive
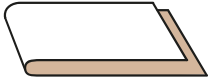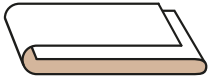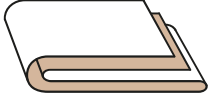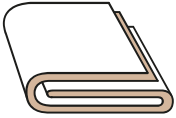• RAL paint finish other than standard
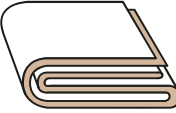
Versions

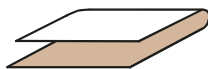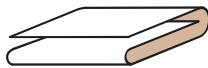| Machine version	Working width	Max item length	Max item width
Sigma 1200	1200 mm	3000 mm	1200 mm
Sigma 1400	1400 mm	3000 mm	1400 mm
Sigma 1600	1600 mm	3000 mm	1600 mm
Sigma 1800	1800 mm	3000 mm	1800 mm
Sigma 2200	2200 mm	3000 mm	2200 mm

Types of folds

PRIMARY FOLDS

The fold type is selected automatically by measuring the length of the item placed on the feed belt and according to the selected folding program.

Type of fold	Machine version	Max item size (width)	Cross fold format	
One primary fold	All	950 mm	About half the length	
Two folds (1/3)	All	1450 mm	About 1/3 the length	
Two primary folds (1/2)	All	1950 mm	About 1/4 the length	
One fold (1/2) + two folds (1/3)	All	2800 mm	About 1/6 the length	
Two primary folds (1/2)	All	3000 mm	About 1/8 the length	

2030

2000

800

550

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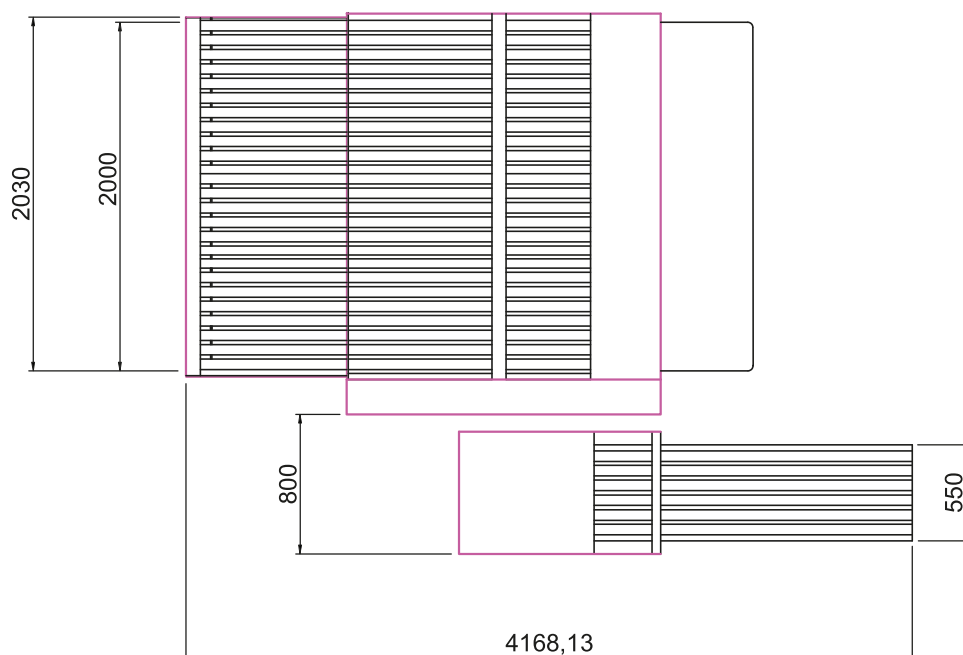
CROSS FOLDS

Folds are made automatically by measuring the length of the item fed in and according to the program chosen by the operator.

Type of fold	Machine version	Max item size (width)	Cross fold format	
One cross fold (1/2)	All	1100 mm	About half the width	
Two cross folds (1/3)	Sigma 1200	850 mm	About 1/3 the width	
	Sigma 1400	1000 mm	About 1/3 the width	
	Sigma 1600	1150 mm	About 1/3 the width	
	Sigma 1800	1300 mm	About 1/3 the width	
	Sigma 2200	1600 mm	About 1/3 the width	
Two cross folds (1/2)	Sigma 1200	1200 mm	About 1/4 the width	
	Sigma 1400	1400 mm	About 1/4 the width	
	Sigma 1600	1600 mm	About 1/4 the width	
	Sigma 1800	1800 mm	About 1/4 the width	
	Sigma 2200	2200 mm	About 1/4 the width	

Technical Data

	Sigma 1200	Sigma 1400	Sigma 1600	Sigma 1800	Sigma 2200
Hourly output	Up to 1000 small items/h	Up to 1000 small items/h	Up to 1000 small items/h	Up to 1000 small items/h	Up to 1000 small items/h
Weight	1250 kg	1400 kg	1550 kg	1700 kg	2000 kg
Working width	1200 mm	1400 mm	1600 mm	1800 mm	2200 mm
Machine width (with stacker)	2200 mm	2400 mm	2600 mm	2800 mm	3200 mm
Max depth	2800 mm	2800 mm	2800 mm	2800 mm	2800 mm
Working height	1000 mm	1000 mm	1000 mm	1000 mm	1000 mm
Machine height	1600 mm	1600 mm	1600 mm	1600 mm	1600 mm
Folding belt speed	25-50 m/min	25-50 m/min	25-50 m/min	25-50 m/min	25-50 m/min
Air consumption (at max output)	80 NL/min	90 NL/min	100 NL/min	110 NL/min	120 NL/min
Power supply	3 Phases+N+E 400V 50 Hz	3 Phases+N+E 400V 50 Hz	3 Phases+N+E 400V 50 Hz	3 Phases+N+E 400V 50 Hz	3 Phases+N+E 400V 50 Hz
Installed power	2.0 kW	2.0 kW	2.0 kW	2.0 kW	2.0 kW
Average power consumption	0.8 kW	0.8 kW	0.9 kW	0.9 kW	1 kW
In-line pressure	6 bar min 10 bar max	6 bar min 10 bar max	6 bar min 10 bar max	6 bar min 10 bar max	6 bar min 10 bar max
Working pressure	6 bar min 7 bar max	6 bar min 7 bar max	6 bar min 7 bar max	6 bar min 7 bar max	6 bar min 7 bar max