DIGITAL WORKFLOW FINISHING 4.0

Connex

Networking processes, connecting systems, showing production states, integrating machines in business processes – the Connex workflow solution is the answer to new requirements in a Smart Factory. Utilizing a modular system of standard modules allows highly customized applications, optimized for individual purpose.

Connex **Info Cloud**

Connex Info Cloud enables you to produce your print products even more (cost)efficiently, to analyze your production in a targeted manner, to identify optimization potential for your production, and to increase your planning reliability. Because it is important to know which order is currently being produced where, how much has been produced and what the idle times, setup times or stop times look like.

Connex **LineControl**

Shorter job run lengths and an increasing number of jobs necessitate electronic support of the classic slip sheet. Connex LineControl interconnects production equipment with higher-level systems via standard interfaces and enables automatic presetting of the machines based on digital Job tickets. Minimizing manual data input saves time and reduces sources of errors, what significantly increases overall production performance.

MMSERVICES

MMSTARTUP
- Project management – comprehensive consultation for all needs
- Installation and commissioning – for a high level of process reliability
- Machine relocations

MMSUPPORT
- Telephone support – 24/7 access to our technical hotline and spare parts
- Repair service – carried out professionally
- Remote services – efficient online troubleshooting

MMPARTS
- Spare parts – high availability at your local service center and quick access to all Muller Martini spare parts in the plants

MMINSPECT
- Inspection – comprehensive analysis and extensive function testing
- Maintenance – regular, proactive maintenance pays off

MMIMPROVE
- Training – professional training at the Muller Martini training centers
- Production support – consultation on efficiency-enhancing programs

MMUPTODATE
- Updates – long-lasting efficiency and productivity
- Retrofits and extensions – to keep you competitive

MMSELECT
- Customized service contracts – efficient life cycle management to ensure the high reliability and uptime of your equipment

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MÜLLER MARTINI

Digital Saddle Stitching Systems

Prinova Digital

Ready for the future with the hybrid versatility

The Prinova Digital ensures unique performance in digital saddle stitching. It is characterized by a high degree of flexibility both in terms of loading options (from sheet or roll) and production modes (conventional / digital / hybrid). The step-by-step configuration with setup wizards, new operating concept and large touchscreen with pictographics enable easy operation. The Prinova Digital offers a high degree of investment security and is therefore the ideal solution for small and medium-sized companies. Changeovers between the two types of production and combined products, i.e. a combination of digital and conventionally printed offset signatures as well as selective envelope feeding, are possible at any time. Intelligent functions such as the seamless production (controlled via the integrated ASIR PRO cameras) of same-format jobs (multi-job) make the Prinova Digital a smart saddle stitcher – in line with Muller Martini's Finishing 4.0 strategy. The Connex data and process management system from Muller Martini ensures seamless interaction and optimum control of all units.

HIGHLIGHTS

Digital production modes
Variable Page Count / Variable Data Printing / Multi-Job / Selective Binding / Variable folding

Connex
Full Integration into the Workflow System from Muller Martini

Code / image recognition
Print sheet recognition of 1D, 2D code and image comparison by MM camera system ASIR PRO

Your **strong partner.**

MÜLLER MARTINI

TECHNICAL DATA

Machine speed	**Mechanical**	max.	9,000 cycles/h*	
Machine			**A**	**B**
Size, untrimmed	**Product size**	min.	130 mm (5 1/8")**	90 mm (3 9/16")
		max.	365 mm (14 3/8")	320 mm (12 9/16")
Sizes, trimmed	**One-up**	min.	105 mm (4 1/8")	60 mm (2 5/16")
		max.	360 mm (14 3/16")	317 mm (12 1/2")
	Two-up	min.	85 mm (3 3/8")	60 mm (2 3/8")
		max.	175 mm (6 7/8")	317 mm (12 1/2")
Trim	**Head/foot trim & front trim**	min.	3 mm (0 1/8")	
		max.	50 mm (2")	
Product thickness	**One-up**	max.	10 mm (0 6/16")	
	Center cut, split cut	max.	6 mm (0 4/16")	
	Center cut, punch cut (10 mm Knife)	max.	5 mm (0 3/16")***	
Folder Feeder 0607			**A**	**B**
Size, unfolded	**Signature size**	min.	89 mm (3 1/2")	165 mm (6 1/2")
		max.	365 mm (14 3/8")	610 mm (24")
Paper characteristics	**Single signature grammage**	min.	70 g/m²	
		max.	260 g/m²	
Flat Pile Feeder 0605			**A**	**B**
Sizes	**Signature size**	min.	80 mm (3 3/16")	100 mm (3 15/16")[1]
		max.	365 mm (14 3/8")	320 mm (12 9/16")
		min. with addition[1]		80 mm (3 3/16")
	Overlap C	min.	6 mm (0 4/16")	
		max.	15 mm (0 9/16")	
Plow folder			**A**	**B**
Size, untrimmed	**Sheet size**	min.	170 mm (6 11/16")	200 mm (7 7/8")
		max.	365 mm (14 3/8")	630 mm (24 51/64")
Paper characteristics	**Single signature grammage**	min.	50 g/m²	
		max.	180 g/m²	
Perfetto compensating stacker			**A**	**B**
	Size of end product	min.	148 mm (5 53/64")	105 mm (4 9/64")
		max.	480 mm (18 57/64")	330 mm (12 63/64")
	Layer height	max.	150 mm (5 29/32")	
	Stack height	max.	250 mm (9 27/32")/350 mm (13 25/32")	
OEM Equipment			**A**	**B**
Heidelberg Stahlfolder TH-56	**Product size from stack**	max.	900 mm (35 7/16")	560 mm (22 3/64")
	Product size from roll	max.	1200 mm (47 1/4")	560 mm (22 3/64")
		max. with Dyna-Cut	900 mm (35 7/16")	560 mm (22 3/64")
Hunkeler			**A**	
Cross cutter CS8 & Unwinder UW8	**Roll width**	max.	558 mm (22")	
	Unwinding speed	max. (standard)	150 m/min (492.13 ft/min)	
		max. (option)	180 m/min (590.55 ft/min)	
Other OEM Suppliers	**on request**			
General	**Semko measuring range below ridge 80 mm**			
	Stitching head eHK65 maximum 4 pieces			
	Loop stitching head maximum 4 pieces			

* The maximum possible net output depends on several parameters. The characteristics of the paper being processed – such as the paper texture, the grammage, the folding quality, the electrostatic behavior and the size – affect product processing as do environmental factors, the expertise of the machine operator, etc.
** By removing a transport belt in the infeed 110 mm become possible!
*** The maximum product thickness depends on the knife thickness (maximum product thickness = 1/2 of knife thickness).

UTILITY REQUIREMENTS

Electrical	**Voltage**	3 x 400V AC N PE
	Frequency	230V AC ±10%, 50/60 Hz ±2%, N, PE
	Protection from customer side*	40 A
	Max power consumption*	15 kVA
Pneumatical	**Machine's working pressure | Oem Equipment**	4.5 bar | 6 bar
	Air consumption*	141 Nm³/h (83 cfm)
	External diameter of air inlet fitting for compressed air	G (0 53/64") (21 mm)
Important	**Air must be oil- and waterfree** **The compressor must be sourced locally** **ISO 8573-1:2010 7/4/4**	

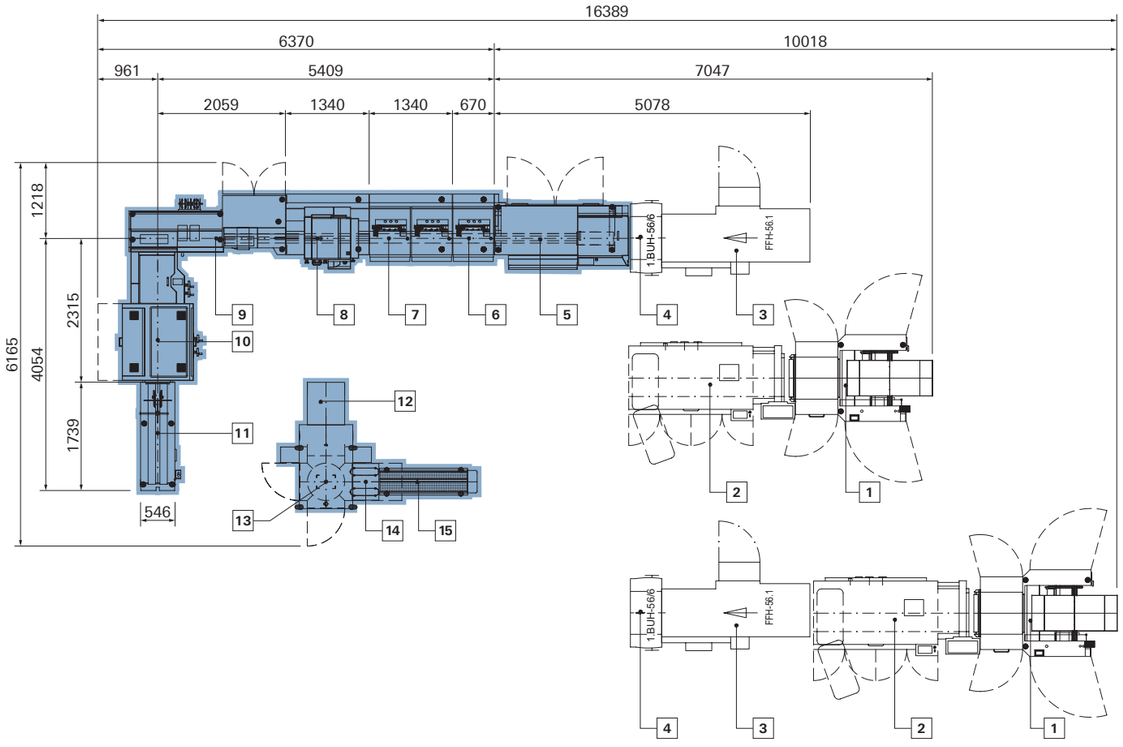
* Calculations based on configuration 3 flat pile feeders, 1 folder feeder, Heidelberg TH-56 and Hunkeler CS8 / UW8. Demand may change depending on configuration.

CONFIGURATIONS AND OPTIONS

Configurations	Conventional with shingle delivery or compensating stacker
	Hybrid (Conventional with digital feed)
	Digital (from stack and / or from roll)
Optional features	2-up (Center cut / punching cut)
	Variable thickness stitching head unit (plus two variable thickness stitching heads)
	Infopanel
	Job preview monitor
	Software: Book block gathering function

LAYOUT

1 Hunkeler Unwinder
2 Hunkeler Cross cutting module
3 Heidelberg Feeder
4 Heidelberg Folder
5 Plowfolder B252
6 Single feeder 0605
7 Dubble-feeder 0605
8 Folder feeder 0607
9 Saddle stitcher 0601
10 Three-knife trimmer 0604
11 Shingle delivery 0612
12 Infeed conveyor 0450
13 Compensating stacker 0450
14 Belt delivery 0450
15 Rollertable 0450



ASIR DATA

The following functions can be selected	Supported code types
Section recognition	1D and 2D codes
	Image comparison

AMBIENT CONDITIONS

Temperature	**Ambient temperature**	**Condition**	**Temperature range**
	Operation		+5 to +40 [°C]*
	Storage I transport	Long-term Short-term < 24 [h]	-25 to +55 [°C] -25 to +70 [°C]
	Suggested operating range		+18 to +23 [°C]
Air Humidity	**Relative Humidity**	**Condition**	**Humidity Range**
	Non-condensing	max +35 [°C]	max 50%
	Higher relative humidity is acceptable only at lower temperatures	For example, at 20 [°C]	max 90%
	Suggested operating range		40 to 50%

* An air conditioning unit (optional) must be used for operating temperatures of 35° C or higher.