

THIEME

THIEME 5000 XL

Multicolour screen printing line



Thanks to the experience gained by the construction of more than 100 flatbed screen printing multicolour lines and the combination of well-proven features with new technologies, a new machine conception was created. This conception reveals high production speeds and the reduction of operator time.

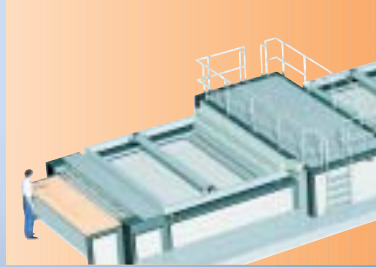
The THIEME 5000 XL is a large-format multicolour line and is the key for constant and low-cost printing of quality substrates which can be achieved only by screen printing.



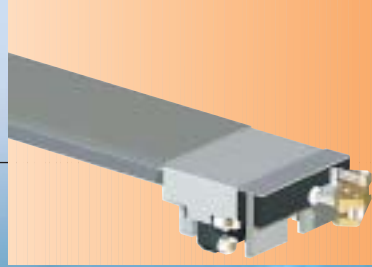
We are your single source for **technical expertise** and **complete project management**



Multicolour screen printing line for large format



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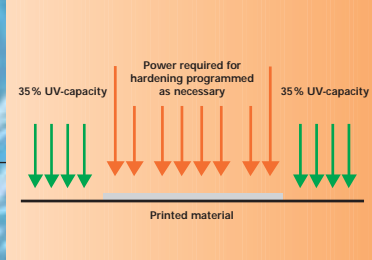
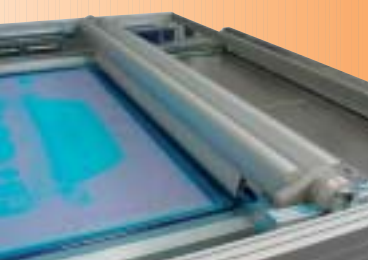
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**THIEME –
our passion and our duty:
perfection!**



4

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...echt teuflisch
der Kräuter von Weis ist für mich

1 Servodrive concept

- Increases modularity of the multicolour systems
- Ensures precise and reliable processes
- Enhances reliability and availability
- Permits more automatic set-up features
- Much more effective for meeting changing machine requirements

2 Gripper system

- Dimension and rigidity for large formats
- For material with a thickness of up to 10 mm
- Less reaction when applying the opening mechanism
- Dynamic gripper centring – gripper and sheet are successively moved to the correct position during transport

3 Print beam

- All settings, including the squeegee angles, are programmable
- Equalized squeegee pressure irrespective of length and position of squeegee profile; squeegee pressure is programmable
- Automatic depth and parallelism setting of the squeegee
- Depth adjustment of the flood bar (motorised)
- 90° swing-up mechanism above the drip-pan for exchanging screens
- 180° swing-up mechanism for changing the squeegee (only one person required)
- All functional parts are covered

4 Screen frame reception bar

- Peel-off programmable
- Screen frame dimension programmable
- 4-axes screen fine adjustment
- 3-point screen positioning
- Pneumatic screen frame fixture: Mechanically clamped, pneumatically opened

5 UV intermediate dryer with Advanced Energy Management

- Intelligent standby mode
- Variable power steps
- Drying at minimum energy capacity
- 7 different scan speeds
- 30–50 % power savings
- Minimum heat exposure of substrate

6 Outlet station

- Full size mesh transport belt with lateral guides
- Vacuum supported belt, self-adjusting in size and strength
- Automatic belt speed adjustment
- No gap between outlet station and automatic stacker

7 Touchscreen operation

- Simple and reliable operating concept
- Set-up time < 5 min per print station
- Operator guidance with basic programs
- Job programming

THIEME screen printing machines can be used for a variety of applications. Machine features are based on the requirements of each individual customer and are governed by the type and composition of substrates and inks used. Please note that the use of substrates and inks that differ from those defined at the time of purchase may influence the performance of the machine. Please also note that options and special features of the machines may influence the performance and might change dimensions, cycle times and application possibilities compared to the standard version.

The THIEME 5000 XL machine concept is specially designed and, thus, predestined for the multicolour screen printing of large formats. It allows extraordinary production capacity using minimum manpower.



Technical Data

Type of machine	5060 XL	5070 XL	5080 XL	5085 XL	5090 XL	5095 XL
print size (mm inch)	1600 x 2100 63 x 83	1600 x 2600 63 x 102	1600 x 3050 63 x 120	1600 x 3300 63 x 130	2000 x 3050 79 x 120	2000 x 3300 79 x 130
sheet size max. (mm inch)	1660 x 2160 65 x 83	1660 x 2660 65 x 105	1660 x 3110 65 x 122	1600 x 3360 63 x 132	2060 x 3110 81 x 122	2060 x 3360 81 x 132
frame size min. in transport direction (mm inch)	1100 43,4	1100 43,4	1100 43,4	1100 43,4	1500 59,1	1500 59,1
frame size max. (mm inch)	2400 x 2900 94,4 x 114,1	2400 x 3400 94,4 x 133,8	2400 x 3850 94,4 x 151,5	2400 x 4100 94,4 x 161	2800 x 3850 110,2 x 151,5	2800 x 4100 110,2 x 161
printing table – external dimensions (mm inch)	1800 x 2324 71 x 91	1800 x 2824 71 x 111	1800 x 3274 71 x 129	1800 x 3524 71 x 139	2200 x 3274 87 x 129	2200 x 3524 87 x 139
size of vacuum area (mm inch)	1640 x 2140 65 x 84	1640 x 2640 65 x 104	1640 x 3080 65 x 121	1640 x 3320 65 x 131	2040 x 3080 80 x 121	2040 x 3320 80 x 131
speed* (cycl/h)	800	700	600	600	500	500
squeegee speed (m/sec inch/sec)	0,3 – 1,5 12 x 59	0,3 – 1,5 12 x 59	0,3 – 1,5 12 x 59	0,3 – 1,5 12 x 59	0,3 – 1,5 12 x 59	0,3 – 1,5 12 x 59
number of printing stations	1 – 6	1 – 6	1 – 6	1 – 6	1 – 6	1 – 6
range of substrate thickness (mm inch)	0,1 – 10 0,004 x 0,39	0,1 – 10 0,004 x 0,39	0,1 – 10 0,004 x 0,39	0,1 – 10 0,004 x 0,39	0,1 – 10 0,004 x 0,39	0,1 – 10 0,004 x 0,39
range of substrate weight (g/m ²)	120 – 3000	120 – 3000	120 – 3000	120 – 3000	120 – 3000	120 – 3000
gripper margin approx. (mm inch)	8 0,31	8 0,31	8 0,31	8 0,31	8 0,31	8 0,31
A feeder** (mm inch)	3900 154	3900 154	3900 154	3900 154	5000 197	5000 197
B 1 st machine (mm inch)	4104 162	4104 162	4104 162	4104 162	4550 179	4550 179
C 1 st „x“ dryer (mm inch)	2300 91	2300 91	2300 91	2300 91	2700 106	2700 106
D 2 nd „x“ machine (mm inch)	3415 134	3415 134	3415 134	3415 134	3904 154	3904 154
E outlet station (mm inch)	2524 99	2524 99	2524 99	2524 99	2970 117	2970 117
F stacker*** (mm inch)	2900 114	2900 114	2900 114	2900 114	3300 130	3300 130
G max. width**** (mm inch)	5235 206	5635 222	6085 240	6335 249	6085 240	6335 249
screen fine-tuning X-X-Y (mm inch)	+/- 10 +/-0,39					
UV-power per lamp (W/cm W/inch)	36 / 48 / 60 / 72 / 84 / 96 / 108 / 120 91 / 122 / 152 / 183 / 213 / 244 / 274 / 305					
control	SPS/PLC-automatic progr. + motion controller					
power supply	standard: 230 / 400 V + N, 50 Hz, 3 phases					
compressed air required (bar)	6					

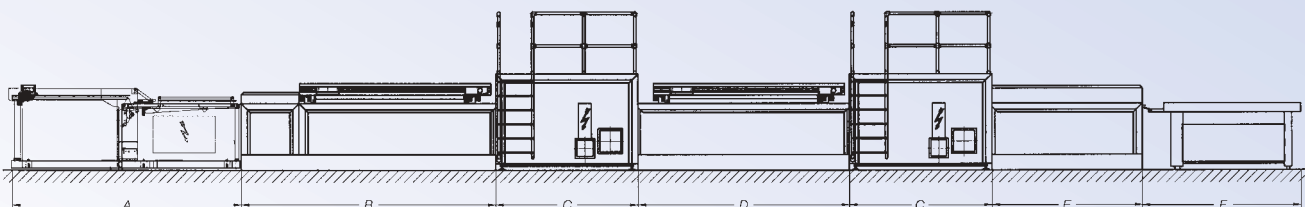
* Mechanical machine speed w/o feeding operation

** Dimensions of standard feeders, other makes on request (optional)

*** Dimensions of standard stackers, other makes on request (optional)

**** Max. width with walkways, dryer w/o exhaust duct

All technical information is not binding and is subject to change



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