### Customized innovative machine options



**APC Advanced-Print-Control**  Detection & correction of register deviations during setup

Cyclic checking/readjustment



Anti-Drip • Anti-drip for printing and/or flood squeegees



**Barcode Handscanner** • For documentation of material batches (film, paint)



- To call the print program
- Integrated Barcodesystem • Barcode imprint on first print Documentation (traceability)



Screen stretch compensation • Effects of screen stretch compensation can be minimized



Humidity control • Automatically humidify the printing environment

• Reduces drying of the screen



Screen clean Automatic screen

humidification (screen clean) • Removes dried paint without manual cleaning



**Process air dosing** • Filtered



Pastes are supplied cyclically





Intermediate paper printing



Screen pull-out system • Screen cleaning outside the printing station



• Automatic foil cleaning before printing



# THIEME 3000 Vision AL (AutoLoader)

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Phone +1-630-513-1666 info@thieme-us.com Mail

Latest screen printing machine generation specifically designed for film, sheet metal, and electronics applications

www.thieme-products.com

www.thieme-us.com 05/24



# **THIEME 3000 Vision AL**

# **THIEME 3000 Vision AL**

### Why THIEME ?

 $\rightarrow$ 

feeding

+ Thieme Quality "Made in Germany"

printing

drying

- + Individually configured and manufactured according to customer requirements
- + Over 60 years of experience in screen printing and automation
- + Over 10,000 installed machines
- + Long life expectancy of a Thieme machine (over 20 years)
- + Global service
- + Process support during production start-up optionally available
- + Network with leading ink, screen, and substrate manufacturers
- + Testing and development possibilities at the Thieme Technology Center

# Specifics $\rightarrow$

- + Material-friendly transport due to pick & place handling
- + System enables processing of films below 100µm
- + Also suitable for rigid materials

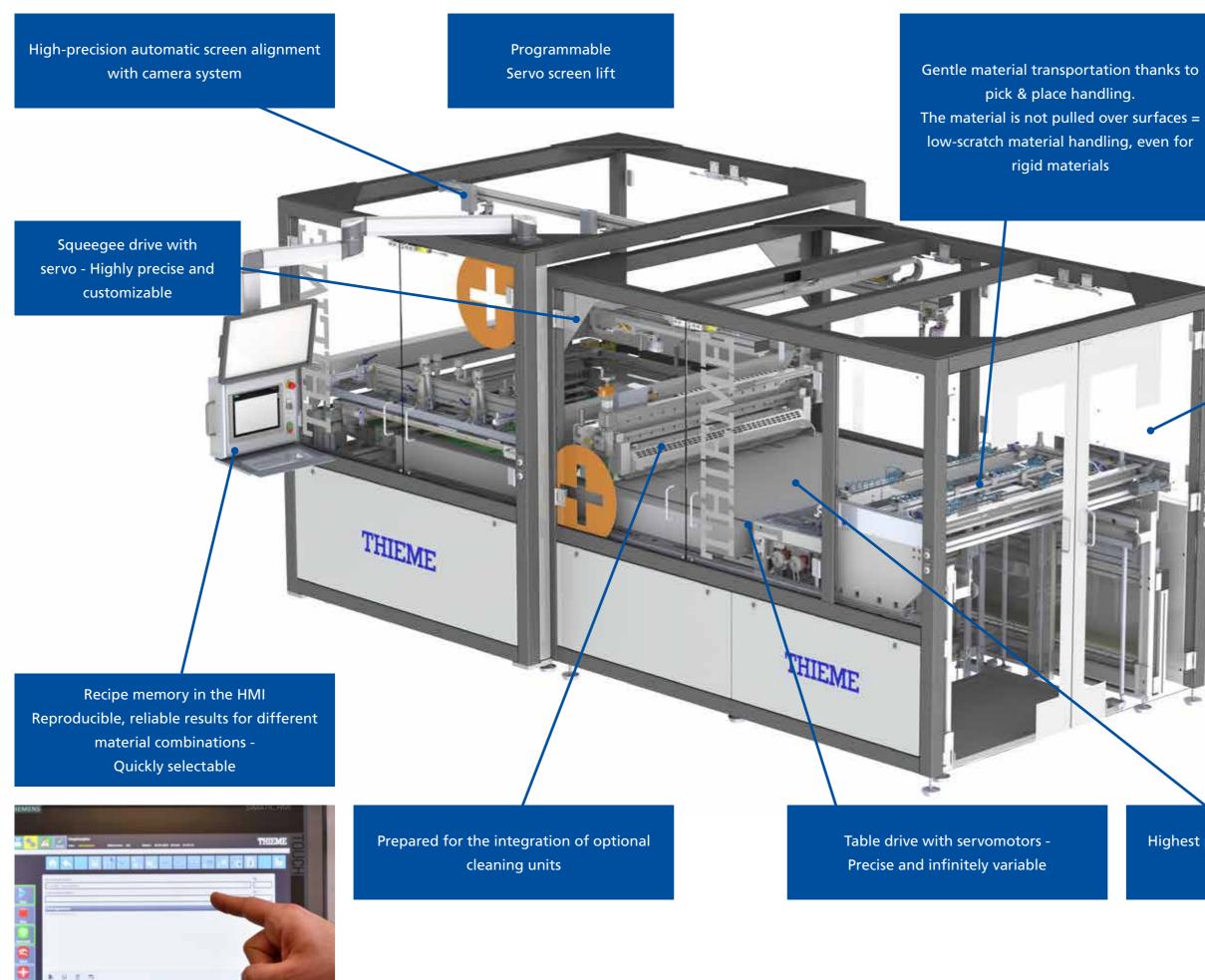
- + Customizable with extensive machine options
- + Intuitive machine operation



+ Highest precision through camera-assisted substrate alignment

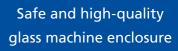
+ Proven Thieme Vision-System for screen and substrate alignment + Optional Advanced Print Control (APC) for setup time optimization

### www.thieme-products.com



www.thieme-products.com

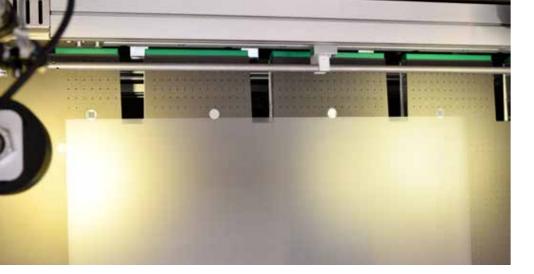






Highest precision by substrate alignment with live targeting

www.thieme-products.com





The THIEME 3000 Vision AL comes standard with the THIEME Vision-System.

## **THIEME Vision-System**

The THIEME Vision-System essentially consists of two independent camera systems and the associated control software. One of the camera systems is used for automatic screen positioning and one for automatic substrate alignment.

### **THIEME** Vision - Screen positioning

The days of manual adjustment of screen position belong to the past. Set up your Thieme screen printing machine in less time and gain valuable production time. The Thieme Vision screen positioning system works with an very high accuracy, minimizing set up prints.

# THIEME Vision - Substrate positioning

Reduction of set up prints and an improvement in accuracy? Increase your productivity and quality. The Thieme Vision-System allows a new level of quality.



 $\rightarrow$ 

### + Automatic Setup

+ Reduce set-up times

+ High-precision screen alignment

+ Minimum make ready prints

Substrate
position-
ing
$\rightarrow$

 High-precision printing-material alignment

+ Reduction of make ready prints

+ Eliminates placement errors

+ High reproducibility

		Screen positioning
Number of cameras		2 / expandable
Mechanical repeatability	[µm]	+/- 40
Alignment mark	[mm]	round, white, ø3
Screen adjustment		motorized

		Substrate positioning
Number of cameras		2 / expandable
Mechanical repeatability	[µm]	+/-30
Alignment mark		flexible
Table alignment		servomotor, air bearing

Technical data

Type of machine		3010	3020	3030		
Print size	[mm]	550 x 750	750 x 1050	1000 x 1400		
Sheet size max.	[mm]	580 x 780	780 x 1080	1030 x 1420		
Sheet size min.	[mm]	30x 20 quer				
Frame size	[mm]	1180 x 1380	1380 x 1680	1630 x 2020		
Screen rest at max. format [mm]		300				
Printing table	[mm]	800 x 1050	1000 x 1350	1250 x 1700		
Vacuum field size	[mm]	565 x 765	765 x 1065	1015 x 1405		
Substrate thickness max.	[mm]	up to 16				
Substrate thickness*1min	. [mm]	50 µm				
Screen adjustment	[mm]	+/- 6				
Alignment accuracy	[mm]	+/- 50 μm at cmk 1,67; absolute +/- 30 μm				
Squeegee speed	[m/sec]	0,1 - 1,4				
Weight	[kg]	2300	2600	2900		
Print speed*2	[cycl/h]	420	400	390		
Power supply	[V]	400				
Power supply	[kW]	4,2				
Power supply	[A]	6				
Material feeding		Right / Left / Center				
Position Camera marks Table orientation		Complete sheet area freely selectable				
Position Camera marks Screen direction		Position selectable by arrangement				
Print direction		90° to the transport direction				
Max. Stacking height	[mm]	500				
Max. Stacking weight	[kg]	1000				