

Product Matrix

Models

challenger 650

challenger 175

challenger 273

challenger 171

challenger 173

labratester 180

800

800

explorer 750

System	Sheet-Based Systems						Roll-to-Roll Systems		
									
Sheet-Based System	✓	✓	✓	✓	✓	✓			
Roll-to-Roll System							in preparation	in preparation	✓
Printing & Coating Options									
Inkjet	✓								✓
Slot die	✓	✓	✓	✓			✓		✓
Rotary Screen		✓	✓	✓	✓				✓
Flatbed Screen	✓								
Flexo	✓	✓	✓	✓	✓				✓
Rotogravure	✓	✓	✓	✓	✓				✓
Gravure Offset	✓	✓	✓	✓	✓				
Gravure printing with plate					✓	✓			
Mayer Bar							✓		✓
Lamination	✓	✓							✓
Combo printing unit for quick change of up to 5 printing technologies (model-dependent)	✓	✓	✓		✓				
Exchangeable printing/coating unit				✓					✓
Drying & Curing Options									
Hot air dryer	✓	✓					✓	✓	✓
NIR dryer	✓	✓	✓				✓	✓	✓
IR dryer							✓	✓	✓
UV systems	✓	✓	✓				✓	✓	✓
Photonic curing	✓						✓	✓	✓
Air knife	✓	✓	✓				✓		✓
Heated substrate vacuum chuck	✓	✓	✓		✓				
Heating plates and rollers							✓		✓
Substrate Pre-Treatment									
Corona pre-treatment	✓	✓	✓				✓	✓	✓
Web cleaning							✓	✓	✓
De-ionizing web solution							✓	✓	✓
Web Handling & Control System									
Optical alignment system for multilayer precision printing	✓	✓	✓	✓					
Electronic web tension control with force measuring system							✓	✓	✓
Web edge control							✓	✓	✓
Register control							✓	✓	✓
Additional Options									
Electrostatic print assist						✓			✓
Remarks									
Maschine Base Options		Modular aluminium base 2000 mm segments, Granit base with air bearing max. 6500 mm							
Automation & Process Control									
CSV file export/import	✓	✓	✓				✓	✓	✓
Automated multiple processes	✓	✓	✓				✓	✓	✓
Recipe control	✓						✓	✓	✓
Technical data									
Substrate size	up to 300 x 300 mm	up to 300 x 300 x 3 mm	up to 210 x 148 x 3 mm (DIN A5)	up to 210 x 148 mm (DIN A5)	up to 210 x 148 x 3 mm (DIN A5)	up to 210 x 148 mm (DIN A5)	Web width up to 300 mm	Web width up to 630 mm	Web width up to 300 mm
Substrate compatibility	flexible / rigid	flexible / rigid	flexible / rigid	flexible	flexible / rigid	flexible	flexible	flexible	flexible
Process speed	up to 90 m/min	up to 60 m/min	up to 60 m/min	up to 30 m/min	up to 30 m/min	up to 35 m/min	Process-dependent	Process-dependent	up to 100 m/min (process-dependent)
Positioning accuracy	+/- 10µm	+/- 10µm	+/- 10µm	+/- 10µm					
Exhaust air monitoring	✓	✓					✓	✓	✓
Dimensions LxWxH	Configuration dependent	Configuration dependent	2000 x 800 x 1820 mm	1200 x 880 x 2200 mm	1250 x 800 x 650 mm	950 x 580 x 350 mm	Configuration dependent	Configuration dependent	Configuration dependent
Weight (kg)	Configuration dependent	Configuration dependent	500	200	150	120	Configuration dependent	Configuration dependent	Configuration dependent