

ROLAND 500

PRINTING UNITS, DIMENSIONS AND DETAILS

Equipment	Without coating module	With coating module and extended delivery ⁴
Printing units	2-12	Single-coater 2-12 Double-coater 4-8
Max. printing speed (sheets/h) Straight printing (standard/option)	16,000/18,000 ¹	16,000/18,000 ¹
Max. printing speed (sheets/h) Perfecting (standard/option)	15,000	15,000
Sheet size Min. (mm/inch) standard/option Max. (mm/inch) standard/option	260 x 400/10.2 x 15.8; 280 x 350/11.0 x 13.8 530 x 740/20.9 x 29.1; 590 x 740/23.2 x 29.1	260 x 400/10.2 x 15.8; 280 x 350/11 x 13.8 530 x 740/20.9 x 29.1; 590 x 740/23.2 x 29.1
Max. image area Straight printing (mm/inch) standard/option Perfecting (mm/inch) standard/option	520 x 740/20.5 x 29.1; 580 x 740/22.8 x 29.1 510 x 740/20.1 x 29.1; 570 x 740/22.4 x 29.1	520 x 740/20.5 x 29.1; 580 x 740/22.8 x 29.1 510 x 740/20.1 x 29.1; 570 x 740/22.4 x 29.1
Substrate thickness Straight printing (mm/inch) standard/option Perfecting (mm/inch) standard/option	0.06 - 0.6/0.002 - 0.024; 0.04 ² - 1.00 ² /0.0016 - 0.039 0.06 - 0.6/0.002 - 0.024; 0.04 ² - 0.6/0.0016 - 0.024	0.06 - 0.6/0.002 - 0.024; 0.04 ² - 1.00 ² /0.0016 - 0.039 0.06 - 0.6/0.002 - 0.024; 0.04 ² - 0.6/0.0016 - 0.024
Feeder pile height (mm/inch) opt. plinth + 240/9.4 or 480/18.9	1,050/41.3 incl. pallet	1,050/41.3 incl. pallet
Delivery pile height (mm/inch) opt. plinth + 240/9.4 or 480/18.9	1,080/42.5 incl. pallet	1,080/42.5 incl. pallet
Length³/width/height (mm/inch)		
2 printing units	6,038 x 3,460 x 2,066/237.7 x 136.2 x 81.3	8,838 x 3,460 x 2,066/348.0 x 136.2 x 81.3
4 printing units	8,115 x 3,460 x 2,066/321.1 x 136.2 x 81.3	10,774 x 3,460 x 2,066/424.2 x 136.2 x 81.3
5 printing units	9,070 x 3,460 x 2,066/357.1 x 136.2 x 81.3	11,729 x 3,460 x 2,066/461.8 x 136.2 x 81.3
6 printing units	10,025 x 3,460 x 2,066/394.7 x 136.2 x 81.3	12,684 x 3,460 x 2,066/499.4 x 136.2 x 81.3
7 printing units	10,720 x 3,460 x 2,066/422.0 x 136.2 x 81.3	13,379 x 3,460 x 2,066/526.7 x 136.2 x 81.3
8 printing units	11,675 x 3,460 x 2,066/459.6 x 136.2 x 81.3	14,534 x 3,460 x 2,066/572.2 x 136.2 x 81.3
9 printing units	12,630 x 3,460 x 2,066/497.2 x 136.2 x 81.3	15,489 x 3,460 x 2,066/609.8 x 136.2 x 81.3
10 printing units	13,584 x 3,460 x 2,066/534.8 x 136.2 x 81.3	16,444 x 3,460 x 2,066/647.4 x 136.2 x 81.3
11 printing units	14,539 x 3,460 x 2,066/572.4 x 136.2 x 81.3	17,399 x 3,460 x 2,066/685.0 x 136.2 x 81.3
12 printing units	15,494 x 3,460 x 2,066/610.0 x 136.2 x 81.3	18,354 x 3,460 x 2,066/722.6 x 136.2 x 81.3
Noise emissions (sound pressure level⁵ in dB(A))		
At the main workplaces:	< 84	
Low emission-certified version:	< 82	

Some of the functions described above are options and not standard equipment for the ROLAND 500. They can be combined to provide customer-specific configurations in accordance with the valid options price list. The ROLAND 500 is subject to continuing development. Experience gained in practice and the results of research flow into product design. It is therefore in your interest that we reserve the right to make design and specification changes. Only the written confirmation of Order is binding. The contents of this document, in particular brand names, logos and texts, are the property of Manroland Sheetfed, unless otherwise identified, and are protected by law. Reproduction or utilization of this document as well as the communication of its content to others without explicit written authorization by Manroland Sheetfed is prohibited. A civil action will be brought against offenders.

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¹ Maximum speed depends on configuration ² Substrate thickness depends on configuration ³ Standard equipment, see binding sizes on the machine plans ⁴ Dimension for double coater on request ⁵ The sound power levels are configuration-dependent

EQUIPMENT

Printing units	2/4/5/6/7/8/10 2P/4P/5P/6P/7P/8P /9P/10P/11P/12P
Suction feedboard with sheet slowdown	■
Manual format adjustment in feeder and delivery	■
Automatic substrate thickness adjustment in feeder and delivery	■
Remote-controlled circumferential, lateral and diagonal register	■
Remote ink zone adjustment	■
Control for lateral inking roller oscillation from PressPilot	■
Speed-compensated inking and dampening units	■
Ceramic-coated water fountain roller	■
Two-piece rear plate clamp	■
AirGlide delivery	■
Premium coated plate, blanket and impression cylinder surfaces	■
Printing with bearer ring contact	■
ROLAND InlineObserver	□
ROLAND InlinePerfector with OptiPrint-Jackets	□
ROLAND InlineFoiler Prindor	□
Performance package light-weight paper printing, substrate thickness from 0.04 mm/0.002 inch	□
Performance package cardboard printing, substrate up to 1.00 mm/0.039 inch	□
Performance package for printing foils and scratch-sensitive printing materials	□
Performance package universal printing for straight printing presses, for printing materials from 0.04 mm to 1.0mm	□
Increase of the max. press speed to 18,000 s/h	□
Plate change PPL™, highly-automated plate changing system	■
OperationComfort plus, advanced operating and adjustment possibilities at the press	□
FormatChange plus, automatic size adjustments at the feeder and delivery	□
Automatic inking roller and blanket washers	■
ControlDesk plus, advanced operating comfort color matching desk	□
QuickChange Surface, for quicker ink change without consumables	■
QuickChange Job, for quicker job change, incl. de-inking and inking function	■
QuickChange Infeed, automatic sidelay, frontlay and lay hood adjustments	■

Printing units	2/4/5/6/7/8/10 2P/4P/5P/6P/7P/8P /9P/10P/11P/12P
QuickChange Coating, highly-automated coating changeover (chambered doctor blade system, type of coating, cleaning)	□
QuickChange Color, ink flow direction change and modified start sequence	□
QuickChange Brake, automatic suction ring positioning	□
Coating PPL™ – highly-automated coating form change in the coating unit	□
Format 0B plus	□
Non-stop equipment feeder (manual) and delivery (automated)	□
ColorPilot color measuring and control system	□ ²
ROLAND SelectInktempSystem – inking unit temperature control ³	□
ROLAND SelectCleaningSystem – automatic impression cylinder washing device in the printing unit	□
ROLAND SelectCleaningSystem – automatic impression cylinder washing device in the coating unit	□
ROLAND SelectCleaningSystem – automatic form cylinder washing device in the coating unit	□
Washing agent alternation	□
Inking roller washing device with special cleaner (no more washing paste!)	□
Coating unit with chambered doctor blade system and anilox roller	□
ROLAND SelectCoattempSystem – coating conditioning	□
Double coating unit with chambered doctor blade system, anilox roller and transfer modules	□ ⁴
Plinth [240 mm/9.45 inch or 480 mm/18.9 inch]	□
printnetwork	□
ROLAND SelectDryer – drying systems for final and intermediate drying (IR, IR/hot-air, IR/hot-air/UV, UV)	□
TelePresence, with maintenance manager	■
Inline rainbow printing, comfort package rainbow printing	□
ROLAND SelectInkSupply – automatic ink supply system Inkline	□
ROLAND SelectInkAgitator – automatic ink agitating system Inkmove	□
Intercom at the feeder and delivery with one microphone and loudspeaker each	□
QuickStart, re-start with fewer waste sheets	□ ¹

■ = Standard □ = Option

¹ Standard with perfectors ² Available in the configurations smart, D+F and D+F plus ³ Available configuration-related as CAN Open Version

⁴ Except for 2/2P/9P/10P/10P/11P/12P configurations

The table contains a selection of important equipment details. Further information and special configurations on request.