

W+D 212/W+D 222 W+D 214/W+D 224

Two- and four-color offset printing machines
rebuild by POEM



Excellent printing quality, wide range of products and the highest possible productivity

The two color offset printing machines **W+D 212/W+D 222** are quite impressive due to their high production output, outstanding printing quality. And users really appreciate how well they print surfaces and how gently they process envelopes. The four color offset printing machines **W+D 214/W+D 224** are ideally suited for producing high-quality direct mail products out of unprinted envelopes and pockets with the help of offset printing. They deliver maximum output and the highest possible printing quality and are the ideal addition to envelope and pocket manufacturing and the subsequent inserting process.

W+D offset printing machines are known to be solid and durable machines. POEM GmbH has been offering rebuilds that allow for machines with wear-related aging to be reconditioned for many years now. This helps to maintain the productivity and printing quality of these machines for many years to come.

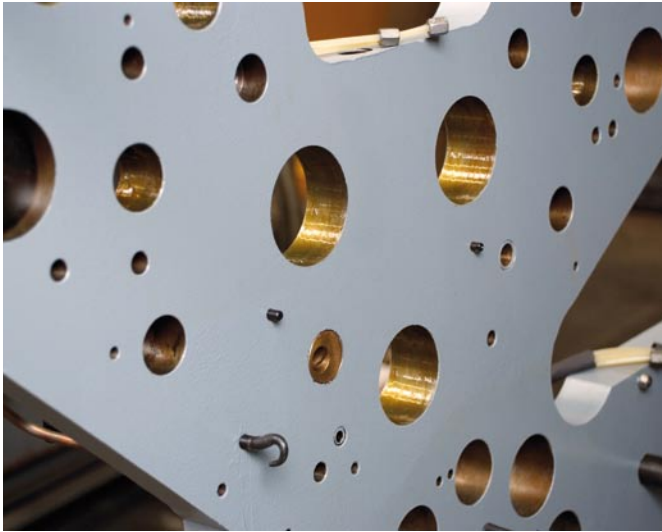


Features

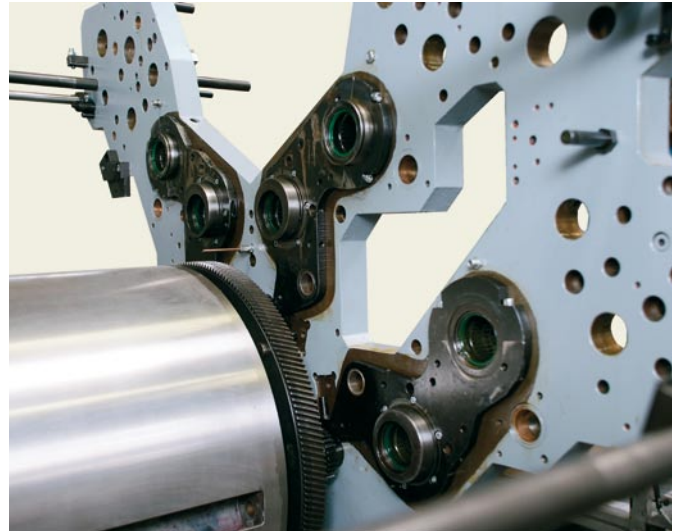
- / Universal feeder for envelopes and pockets
- / Aligner station for register-exact product feeding
- / Cut-resistant rubber blanket and plate cylinders
- / Central adjustment of the rubber blanket cylinder to suit the respective product thickness
- / Ductor type ink units for precise dosing of colors
- / Film dampening units
- / Centrally temperature-controlled dampening solution supply
- / Optional powder spraying device or UV drying
- / Optional round return table for operation by a single person
- / Optional special feeder for envelopes and pockets with windows

Benefits

- / A user-friendly machine concept that offers high production reliability
- / Precise ink film control
- / Speed-dynamic regulation of ink and dampness
- / High ink-volume that is even suited for larger formats
- / Outstanding offset printing quality
- / Gentle product processing that does not impair the product quality
- / Robust for multi-shift operation
- / Even greater product variety thanks to modular optional accessories



Complete disassembly



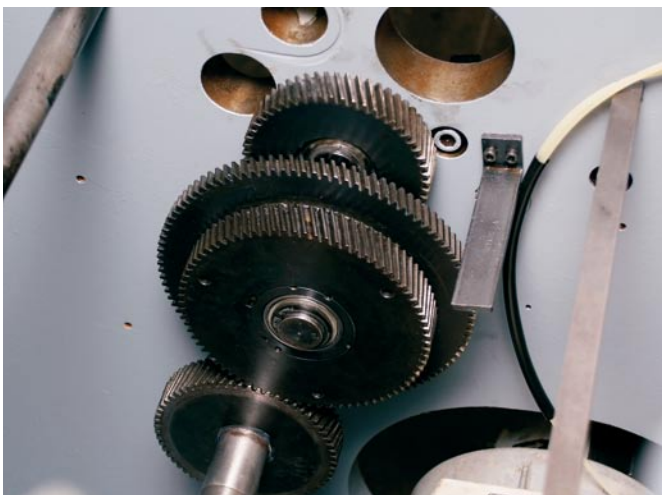
Precise reassembly

The general philosophy

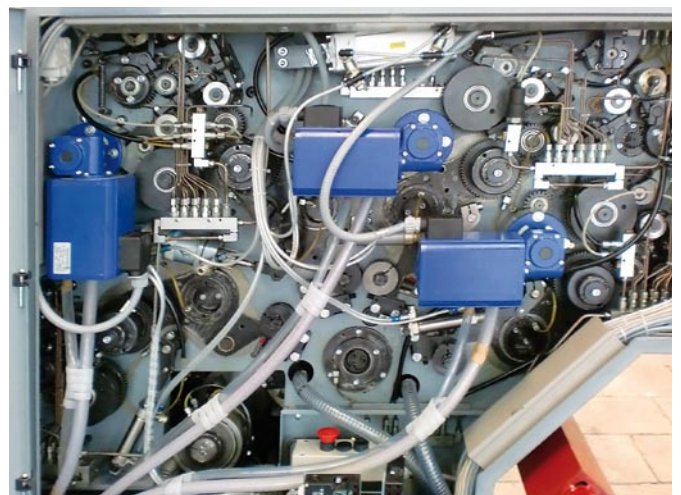
- / To take the special demands placed on offset printing machines with respect to precision into consideration
- / High technical expertise
- / Thorough overhaul
- / Refurbishment and reuse of a large share of the parts
- / Strict replacement of defective parts
- / Completion of missing components
- / Complete replacement of all pneumatic supply lines
- / Complete replacement of all inking and oscillating rollers

The individual programs

- / **Cleaning**
Thorough cleaning and inspection of the machine
- / **Repairs**
Including repair or replacement of defective or missing parts
- / **Optimization**
Replacement of existing parts with more advanced components
- / **Upgrade**
Expansion of the performance spectrum by adding additional functions, for example UV drying, a round return table, etc.



Reinstallation of cleaned and tested gears



Upgrade including frequency-controlled dampening system motors



Completely disassembled W+D 212

Disassembly and cleaning

- / Disassembly of **all** printing units
- / Deinstallation of **all** inking and dampening rollers
- / Removal of **all** rubber blanket and plate cylinders
- / Intensive basic cleaning
- / Replacement of **all** pneumatic hoses with new hoses



Quality inspection of the newly coated cylinders

Inspection and thorough testing

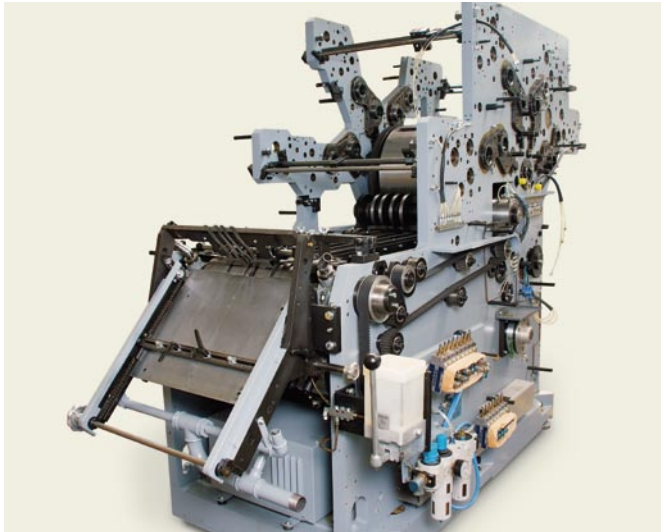
- / Inspection of all disassembled parts
- / Recoating of damaged plate cylinders with a cut-resistant coating
- / Recoating of the rubber blanket cylinders with a cut-resistant coating
- / Inking and dampening rollers will be replaced by new or reconditioned rollers
- / Ink blades are always replaced



Latest generation control valve



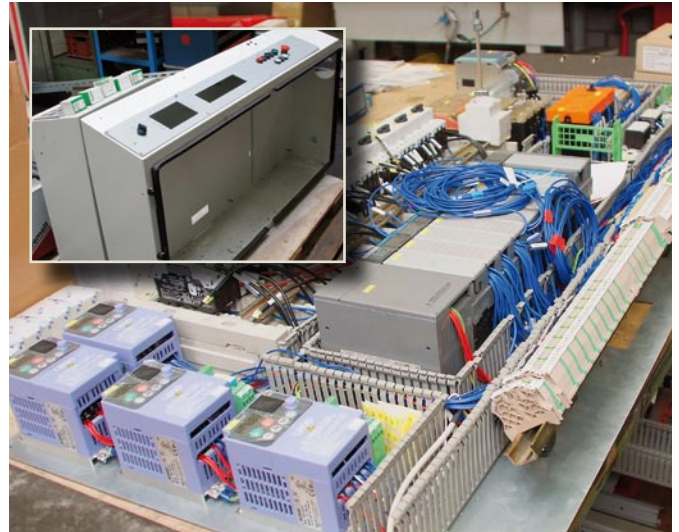
Cut-resistant recoating of the rubber blanket cylinders



W+D 214 during reassembly

Refurbishment and reinstallation

- / Inspection of all component groups for whether they are fully function
- / Parts that block will be made to move freely again
- / Replacement and wear parts will be tested and replaced, if necessary
- / Electrical components will be tested and replaced if they are defective or in poor condition
- / The frequency converter will be tested and replaced, if necessary



Switch cabinet during reassembly

Assembly and commissioning

- / Reassembly of the machines
- / Adjustment of all basic settings
- / Machine test with acceptance of printing together with a W+D printing specialist

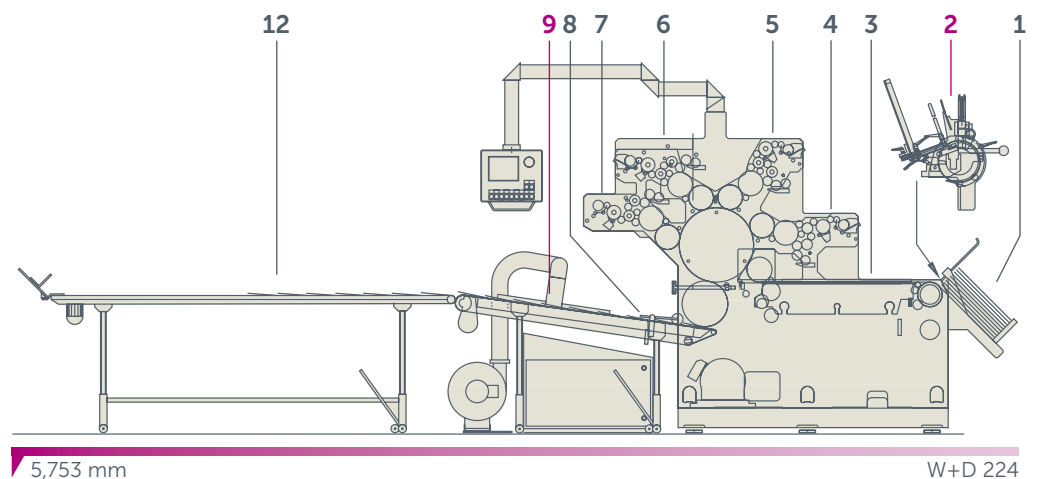
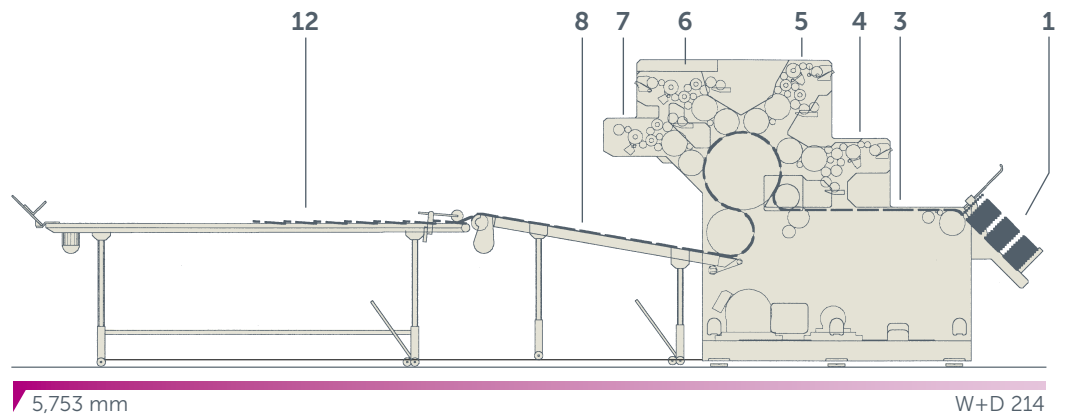
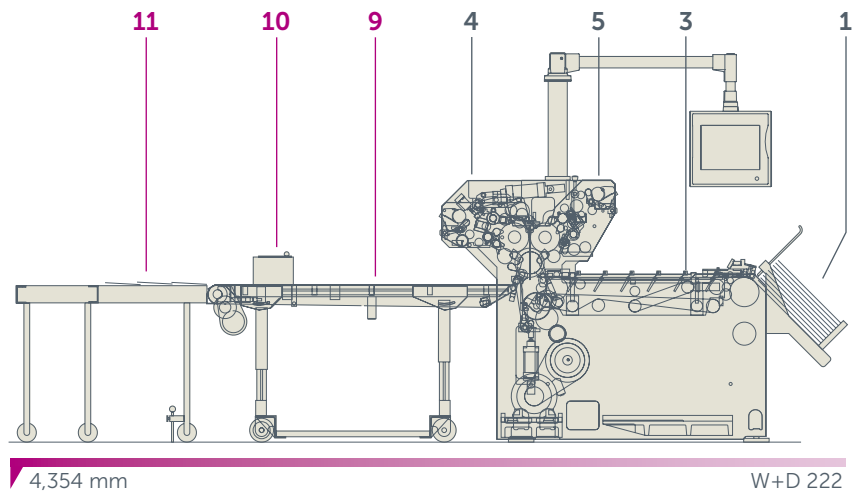
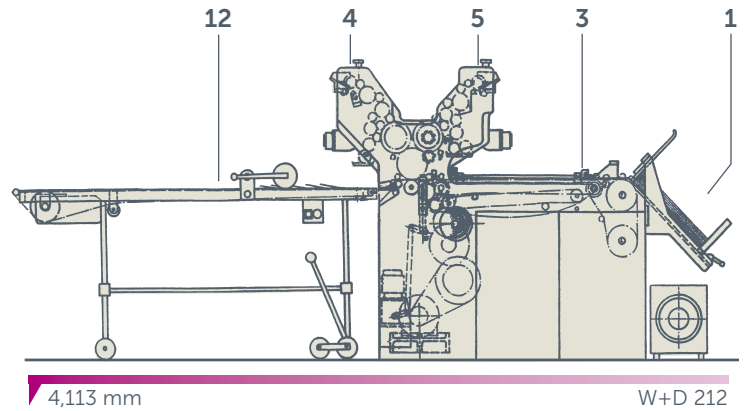


Reinstallation of the cylinders and rollers



Re-commissioning by experts

- 1 Universal feeder
- 2 Feeder for window envelopes
- 3 Aligner station
- 4 Printing unit 1
- 5 Printing unit 2
- 6 Printing unit 3
- 7 Printing unit 4
- 8 Suction belt table (Option for the 212/222)
- 9 UV drying
- 10 Powder spraying unit
- 11 Round return table
- 12 Delivery table



Technical Specifications

Model		212/222*	214/224*
Maximum output per hour	Up to a format height of 460 mm	24.000/*30.000 (for face printing or face printing and perfecting – Perfecting surface depends on the format height)	24,000/*30,000 (only face printing)
	Up to a format height of 229 mm	48,000 (only for face printing)	–
	Up to a format height of 110 mm	48,000 (for face printing and perfecting)	–
		72,000 (only for face printing)	–
Size range	min.	100 x 76 mm (4" x 3")	100 x 76 mm (4" x 3")
	max.	460 x 460 mm (18 1/8" x 18 1/8")	420 x 460 mm (16 9/16" x 18 1/8")
Printing area	max.	406 x 460 mm (16" x 18 1/8")	406 x 440 mm (16" x 17 1/3")
	Face printing	460 mm (18 1/8")	440 mm (17 1/3")
	Perfecting	229 mm (9")	–
Gripper edge		–	6 mm (1/4")
Dimensions and weight	Length	3,400 mm	5,900 mm
	Width	1,200 mm	1,200 mm
	Height	1,385 mm	1,795 mm
	Net weight	ca. 2,650 kg (without the round return table) ca. 2,900 kg (with the round return table)	approx. 3,900 kg (without the round return table) approx. 4,150 kg (with the round return table)
Connected load	Basic machine	15 kVA	17 kVA
	Pressure drying	12 kVA	12 kVA
	Pumping	10 kVA	18 kVA

All performance data published refers to the production of a defined reference product under certain circumstances reflecting a possible practice of use. The performances achieved in practice depend on a multitude of parameters which are beyond our control. This includes, amongst other factors, the condition of the raw materials to be processed, the shapes of the products, the air humidity and the ambient temperature. W+D reserves the right to make design changes and changes to the performance values.

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