



Flexible CtP Technology YOU choose the plate

violet violethermo violethermoprocessless violethermoprocesslessuv-conventional thermoprocesslessuv-conventional processlessuv-conventional

revolution 4

BASIC

COMFORT

PREMIUM



EASY O

All functions for the handling and precise positioning of each plate for exposure, are controlled by computerised electronics without the need for additional displays or controls.

SPACES AVIDO The revolution 4 BASIC requires only 0,7m² of floor space

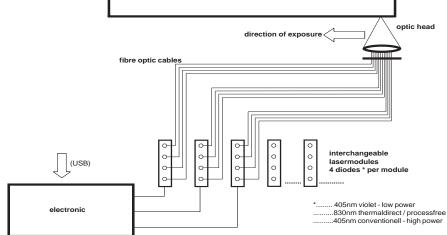
OSTAFFACTIVA

Ctp-system revolution 4 BASIC is the most flexible external drum platesetter in it's class worldwide So you reduce costs of investment without loss of quality and speed.

Openarchitecture totalflexibility

LSH/COLENTA offers a CtP exposure system incorporating external drum technology to be used with 3 different laser diode modules; different in power and/or wavelength and coupled by fibre optics to the focusing optics in the laser head. Productivity is defined by the number of diode modules, their power and drum speed.

- Thermal Diode Modules 830nm/1W to expose all infra red sensitive thermal CtP plates, allowing the exposure of processless thermal plates (Thermal Direct Plates)
- 2) Low Power Violet Module with laser diodes 405nm / 10mW to expose all normal violett sensitive photopolymer plates
- 3) High Power Violet Module with laser diodes 405nm / 120mW offering the opportunity to expose conventional high speed PS plates.



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The high speed, fully automated, flexible, high quality LSH/COLENTA revolution platesetters from 2-up to 8-up size are designed to produce plates within the wide range of resolutions and screen parameters required by the print industry. The LSH/COLENTA proven external drum technology on the exposure unit combined with COLENTA'S long term experience in processing equipment is the state of the art solution for all your printing needs!

An integrated punching system combined with control electronics ensures that each plate is correctly positioned and fixed to the exposure drum. The system provides an automated plate production facility that does not require expensive and regular operator tuning.

LSH/COLENTA revolution - An innovative easy operating



Each plate is mechanically clamped onto the exposure drum - in a similar way as on a press.

This system eliminates the need to use vacuum which is prone to dirt related failures and generates unnecessary noise from vacuum pumps and blowers. LSH/COLENTA revolution – Safe & Clean

- A violet laser diode exposure system which offers a reliable low cost and low maintenance light source.
- All systems are fully supported through our worldwide network of service companies and dealerships working directly with our LSH Colenta factory in Hannover, Germany and Colenta Labortechnik Group headquarters in Wiener Neustadt, Austria.

SMART Operation

Connection and system controls are designed for modern USB 2.0 interface using data transfer rates up to 480Mbit/s. System regulation and monitoring is under the full control of the main workstation to ensure that the system performs correctly.

LSH/COLENTA revolution – An innovative CtP for reliable operation

The **revolution** exposure system has been designed with the minimal amount of moving parts - for example - without the use of mirrors which running at 30.000 r.p.m (similar to the systems used on internal drum and flat bed exposure units). The exposure system of the **revolution** incorporates an external drum and a violet laser light source that provides sharp details without requiring focus adjustments.

SPACESaving

The **LSH/COLENTA revolution** solutions are designed to operate within the minimum of floor space thereby ensuring that important space remains free for other activities within your business premises.

LSH/COLENTA revolution – An innovative compact and functional design.

costeffective

The **Lsh/Colenta revolution** Basic has a worldwide reputation as the »best in its class« for external drum exposure systems at an affordable price at all.

Additional feature and benefits including

Consistent quality

When searching for a CtP system that will provide your business with reliable and consistently high quality plates ready for press, then the

LSH/COLENTA revolution platesetters offer this and more!

Diagram shows optional wash gum unit & Plate Stacker options - to be ordered seperately

LSH/COLENTA revolution – An innovative production safe system.

MODULAR *design*

The LSH/COLENTA revolution CtP systems have been exclusively designed and manufactured for the specific requirements of the PrePress CtP market and with the total flexibility to operate within the framework of your business and the variations in your day to day production demands. We invite you to now discover our unique modular concepts.

LSH/COLENTA revolution – prodvides total flexibility.

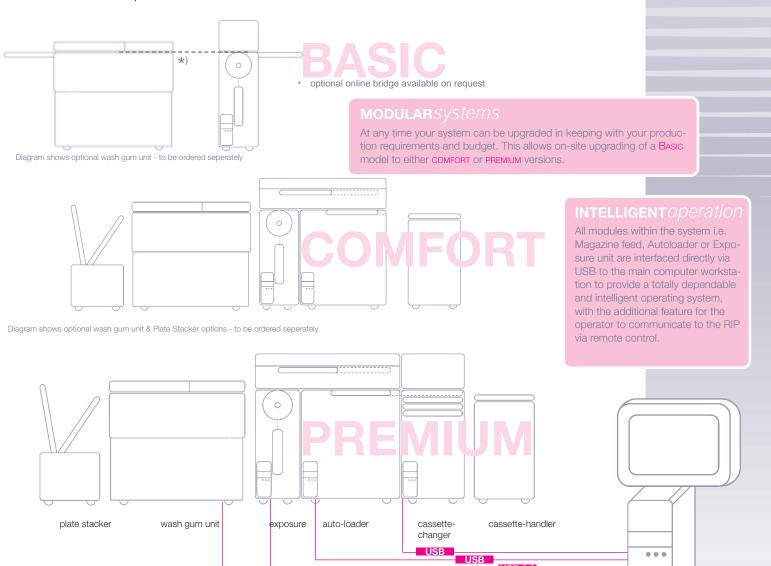
INTELLIGENTEXPOSING

A clever system to maximize exposure speed and productivity that moves the laserhead faster over area of the plate where no exposure is required.

USB 2.0

USB 2.0

USB



Technical data/specifications of ctp-system revolution 4

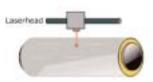
general specification	ns	BASIC	COMFORT	PREMIUM	
width		1.240 mm	1.240 mm	1.240 mm	
depth		520 mm	1.350 mm	2.150 mm	
height		1.120 mm	1.300 mm	1.300 mm	
dimensions of cassette handler			850 x 770 mm	850 x 770 mm	
weight		150 kg	270 kg	400 kg	
exposure specifications		BASIC	COMFORT	PREMIUM	
laser source		120 mW violet laser diode, 405nm, Thermal 830nm and UV conventional			
exposuring technology		external drum			
plate thickness		0,15mm, 0,20mm, 0,30mm			
minimum plate size	minimum plate size		340 x 200 mm		
maximum plate size		760 x 678 mm			
plate material	plate material		830 nm IR sensitive thermal CtP plates, inclusive processless / processfree thermal plates		
		405nm violet sensitive plates (Photopolmer/Silver)			
		405nm conventional high speed PS plates			
technical specification	technical specifications		COMFORT	PREMIUM	
plate exposure time	2540dpi	violett: 12	pl. (18), thermal direct*: 8p	ol. (12), UV conventional: 8pl. (12)	
(speed version) 2032dpi		violett: 15 pl. (20), thermal direct*: 10pl. (15), UV conventional:10pl. (15)			
	1800dpi	violett: 18	pl. (25), thermal direct*: 12	2pl. (16), UV conventional:12pl. (16)	
point-to-point precision	point-to-point precision		5 μm		
resolution	resolution		2.540 dpi, opt. others		
RIP connection	RIP connection		1-bit-tiff from any data source (all RIPs, CTP Workflows)		
online-processing		optional	yes	yes	
punch	punch		plate is always aligned according to punch,		
			plate punch can be specified by customer		
plate handling		manual	automatic	automatic	
plates per cassette	plates per cassette		50 plates	200 plates	
number of cassette		0	1	4	
slipsheet removement		no	yes	yes	
working temperature		18 25 °C			
humidity	humidity		20 80 %		
remarks		the BASIC systems are upgradeable to COMFORT or PREMIUM			
		*	A DI-1-		

^{*} based on thermal direct AGFA Azura Plate

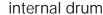
All technical data and specifications are correct at the time of publishing. It remains the right of LSH Laser Systems Hannover GmbH to change the specifications at any time in line with our policy of continous product development. All rights reserved. 03/2008

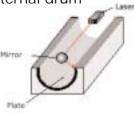
Benefits: LSH External Drum Technology over Internal Drum systems

external drum



- A short distance between light source and the plate surface ensures precise and sharp exposure quality without focus adjustment when handling 0.15 - 0.2 and 0.3mm plates
- No moving parts in the laser head Low Maintenance Requirements LONG/life!
- On the models COMFORT and Premium, an integrated punch (set to specific customer requirements) provides very precise and reliable plate handling when Punching,
 Positioning and Clamping each plate onto the exposure drum
- in the same way as the plate is later mounted onto the press cylinder.
- No vacuum pumps are in operation which is ensures trouble free operation
- ease of automation in synergy with the printing press automatic plate handling





- long path laser distances introduces potential mechanical vibration interference during exposure
- high speed rotating mirrors generate unwanted vibrations and require regular cleaning
- vacuum pumps generate unnecessary noise within the working environment
- Heavy and bulky design requiring special installation needs
- Very limited automation potential
- Airborne dust and dirt entering the vacuum system can be deposited on a plate during exposure





