HUNTER PENROSE

CRON

Cron CTP system technical information
For Confidence Media, Nigeria

The information in these pages describes the main features of the CTP system. Cron Cron thermal lasers are guaranteed for 3 years. Output is consistent. Maintenance is simple. Service is reliable and local.

Cron 46-inch* series CTP systems

SUMMARY OF SPECIFICATIONS

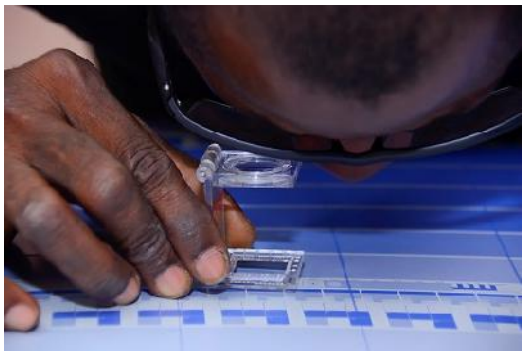
Plate size (max):	1160 x 940mm
Plate size (min):	450 x 370mm
Plate thickness:	Min.15mm - Max .30mm
Imaging mechanism:	External drum
Laser Diodes (thermal option):	830Nm infra-red
Laser Diodes (UV-CTCP option):	405Nm UV (70 or 90mW)
Commercial resolutions (within same machine):	2400/2540/2800dpi
Newspaper resolutions (within same machine):	1200/1500/1800dpi
Register accuracy:	0.01mm
Repeatability:	+/- 0.005mm
Output speed (1030 x 770mm at 2400dpi):	
32 laser channels**	17 per hour
48 laser channels**	23 per hour
64 laser channels**	29 per hour
Auto inline Plate processor:	Included
Automatic loading/unloading	Optional (single / multi-cassette)
Chemistry-free compatible:	Yes
RIP options	StudioRIP, ECRM Newsmate
Operating environment:	18-30°C, RH 20-70%, subdued daylight
Air conditioning:	Integrated dust extractor Integrated laser cooling
Power (single phase):	220-240V a/c 50-60Hz
Compressed air:	Integrated compressor
Installation and training:	Cron factory-trained and certified engineers
Warranty, laser system:	3 years
Warranty, all other parts	1 year
*Also available:	26 inch (670 x 560mm max) 36 inch (925 x 670mm max) Wide format
** Also available	16, 24, 96, 128 laser channels.

Cron 46-inch series CTP systems
TECHNICAL FEATURES

Choice of thermal or UV-CTP
The most commonly used CTP systems use thermal lasers, therefore *thermal CTP plates*. UV-CTP uses UV lasers and is used with *UV-CTP plates or even conventional positive PS plates*, with generally lower operating cost than thermal, due to lower plate costs. Cron offers you the choice.

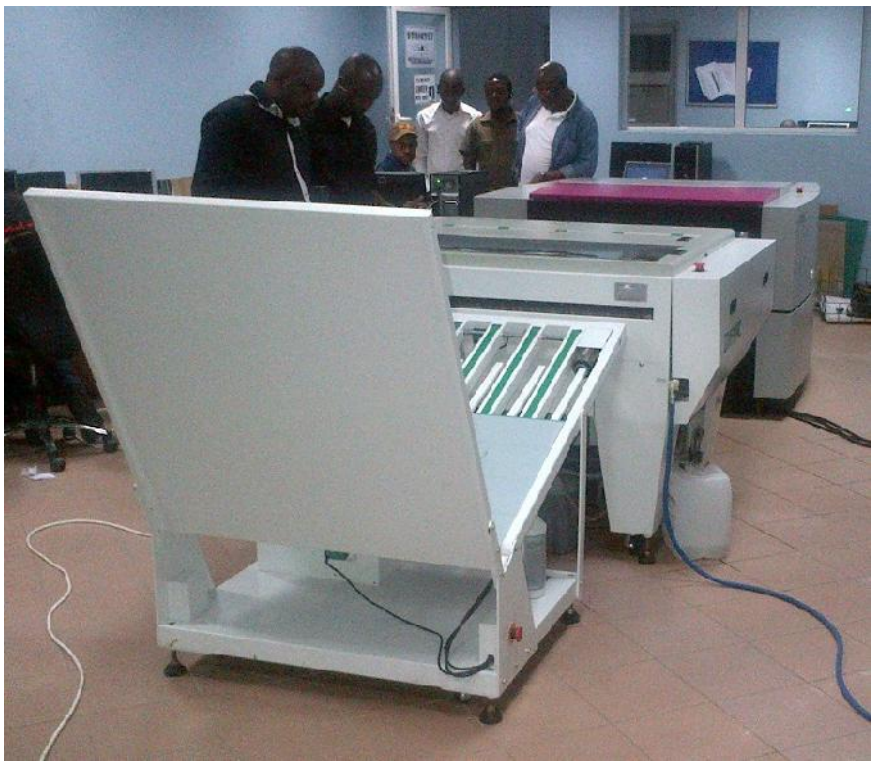
The chassis
The machine is built on a 1200kg solid cast iron chassis.

Plate positioning and registration
The 3-point registration system is driven by step motors of such high precision that a plate may be exposed twice without any visible difference of image position.


Repeatability accurate to 0.005mm

Straight-through plate path

The drum and optical system are accessible from above. There is no open slot in the top of the machine; all is fully enclosed to prevent any dust or object falling into the device.

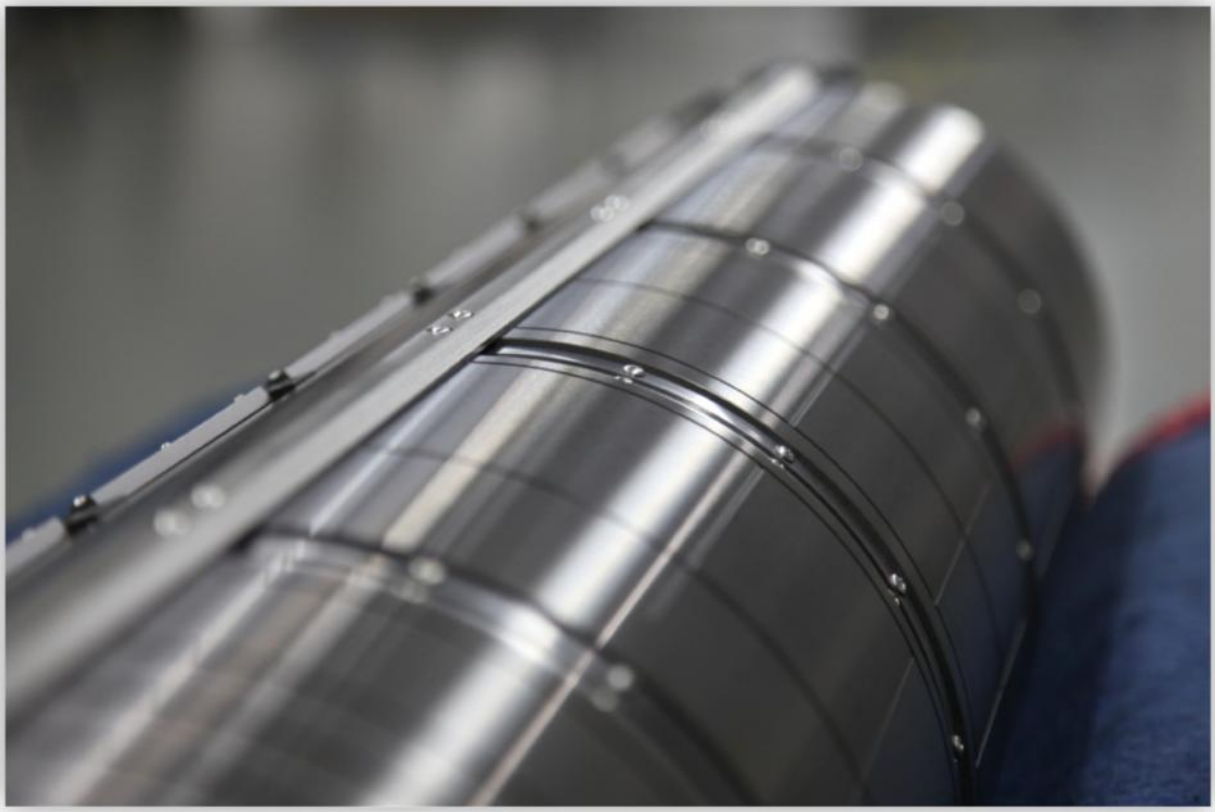


The UVP-3664GI+ at Daily Trust, Abuja

Ministry of Defence, Ethiopia

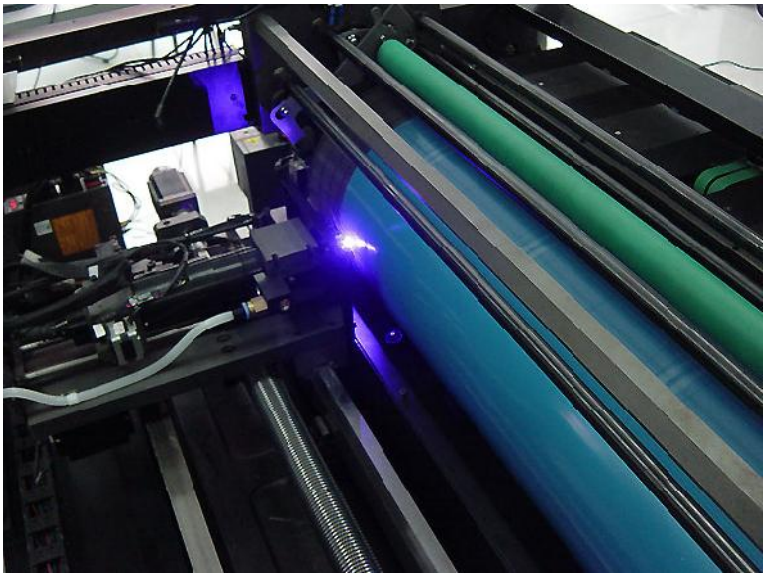
The imaging drum

Cron's drum surface is smoother than any other CTP drum. The plate is automatically gripped by integrated clamps, and held firmly by a triple vacuum system which automatically adjusts for various sizes. Drum with self-regulating counterbalancing system rotates at up to 1200rpm without any noticeable vibration.



The optical system

There is no expensive “laser head” unit. Data passes through short individual fibre channels to the self-focusing optical scanning head, mounted on a magnetic levitation rail. The lasers are guaranteed for 3 years or 200,000 plates. When eventually a laser diode needs replacing, the machine will operate on the remaining lasers without loss of quality until the new diode is installed. Cron individual lasers can be replaced by a local engineer at a small fraction of the cost of a replacement laser head on traditional CTP systems.



Magnetic levitation optical carriage

Output speed

At 2400dpi (the typical resolution for commercial colour printing) the range offered will image a good quality thermal plate in 70 x 100cm format in between 2 and 3.5 minutes. As soon as a plate is released from the drum, the next plate can be loaded. There is no practical limit to the number of jobs which may be spooled in the RIP server for continuous production.

Dust and temperature control

The Cron system’s straight-through plate path is designed to prevent the ingress of dust and other potentially damaging material. Plate emulsion residues from the ablative imaging process are removed by an integrated extraction system and conducted outside. Temperature is automatically monitored, regulated and displayed.

Power

The system operates on single-phase 220-240 a/c (50-60Hz). If the power supply is not already constant and stable, we recommend installing a 10kVA UPS.

System with manual loading

Compressed air

The unit includes an integrated air compressor/vacuum pump.

Recommended operating environment

We strongly recommend that the system be installed in its own clean room, at least 10 x 5 x 2m with air conditioning to maintain a constant ambient temperature of between 18°C and 25°C, and about 55% RH. Though the system will tolerate variations, we advise against rapid and excessive changes of temperature so as to avoid condensation.

Workflow RIP

Our system includes the *StudioRIP Workflow Pro RIP*, pre-loaded on a robust Hewlett Packard or other reliable PC. Functions of the RIP include:

- Tiff Output (the file format used by the CTP)
- PostScript Level 3 and PDF input
- Simple page imposition programme
- Enhanced preview with realistic colours and continuous zoom
- High quality screening with 4096 shades on any lpi/dpi combination, smooth gradients, stable colours
- Hybrid screening with adjustable minimum and maximum dot size
- Soft proofing with JPEG export
- Automatic internet updates
- Retouch tools
- Dot gain compensation
- Trapping control programme
- Ink duct setting calculation (can be sent directly to press or printed out)
- Digital Proofing output
- Multiple client control (can be operated from several computers and can output to more than one device)

StudioRIP is described in more detail in the accompanying document "Info StudioRIP"

Pre-installation checks
Our engineers are second to none in terms of skill, dedication, reliability and communications. They will visit the proposed site some weeks before delivery, to advise on preparing the site, locating and positioning the CTP system within your working environment, and connecting it to the existing pre-press network.

Installation
Installation of each system is usually completed within 5 working days.


Engineers Segun and Ladi during installation at Avon Crowncaps and Containers, Sango Ota

Operator training
Our engineers remain with the operators until they are satisfied and confident in the system.

Service
A spare parts kit is included. The first two service visits after installation are free of charge. Maintenance contract is available from our local engineers Omni Imaging. Service visits can normally be made within 24 hours of request.

Experience

Hunter Penrose is the authorised distributor of Cron and ECRM, for Ethiopia and Nigeria. We visit all Cron users and travel within Nigeria approximately every 2 months.

Hunter Penrose has supplied 6 CTP systems in Ethiopia and 10 in Nigeria, two of them are now over 10 years old and still working well. Several are producing 800 plates or more per week.

In Nigeria our Cron and ECRM installations are operating at leading newspapers including Guardian in Lagos and Daily Trust in Abuja and Kano, as well as leading commercial printers such as Bertie John in Shomolu and at the metal-can printing factory of Avon Crowncaps in Sango Ota, Ogun State, who print the Peak Milk and Ovaltine cans among many other fine jobs.

Representation in Nigeria

Our partners in Nigeria for sales and service are:

Bertie John Printers	01 582 0324
46A Market Street	0802 324 0975
Shomolu	0817 660 8353
Lagos	0805 620 1963
	siralbertoyenuga@gmail.com
Contact: Peter Oyenuga	peteroyenuga@gmail.com

Bertie John provides the following services:
Demonstration of Cron UV-CTCP by appointment, at their Shomolu premises
Advice about financing, assistance with customs clearing and transport when required

Segun SHOAGA	0806 613 3456
CEO / Chief Technician	0802 319 4692
OMNI Imaging Services Int'l Ltd.	

Segun Shoaga and his staff provide the following services:
Detailed technical information about Cron CTP
Comparative technical data with other CTP types
Installation of Cron (and ECRM) CTP systems
User training
Maintenance (on contract or ad-hoc basis) nationwide
Segun Shoaga is certified by Cron as an official installation and maintenance engineer.

Both Bertie John and Omni Imaging are authorised to issue price indications for all Cron configurations. Invoices are issued by Hunter Penrose in London.

Cron was founded in 1992 and is now the leading manufacturer of UV-CTP systems with research, manufacturing, distribution and support centres in China, USA and Germany. There are now over 2000 Cron CTP systems installed worldwide.

Hunter Penrose traces its roots back to A W Penrose & Co, founded in 1893. The company grew rapidly with the newly emerging ***process engraving*** industry. A key item of equipment for plate-making was the reprographic ***process camera*** and, within a few years, Hunter Penrose was manufacturing and selling its cameras around the world. Today, instead of cameras, we specialise in sales and service of computer-to-plate (CTP) systems. We are authorised distributors for Cron Europe GmbH and ECRM Imaging Systems Inc, which, along with a wide range of consumables, we have been supplying and maintaining in Nigeria since 1983.

World-wide Supplier to the Printing Industries
Authorised Dealer CRON EUROPE GmbH

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