COBRA

Computer to Plate

Specification:

Laser type	Violet laser diode, 405nm, 60mW
Drum	270 mm radius, 130º aluminium alloy with hard anodised finish
Max plate	B3/2 up – 550 x 627 mm, 0.3 mm thick (21.6" x 24.6" x 0.012")
Min plate	B3/2 up – 300 x 380 mm, 0.15 mm thick (11.8" x 14.9" x 0.006")
Grip edge	15 mm (9/16") minimum at front edge of plate
Image area	550 x 612 mm (21.6" x 24.0") maximum
Spot size	10 microns
Resolution	2540 dpi, 100 dpmm
Repeatability	± 5 microns image to image; ± 25 microns plate to plate
Imaging speed	6 mm per second, using 36,000 rpm single-facet spinner
Throughput	Up to 30 2 up plates per hour
Plate handling	Manual
Plate types	Violet sensitive aluminium plates – silver and photopolymer Yellow safe light required for plate handling
Registration	Double-sided registration bar, with 2 factory-configurable systems available per machine: System 1: 220mm 'Bacher' press notch registration System 2: 425mm 'Bacher' press notch registration System 3: Corner registration System 4: Customer specific configuration
Approvals	CE certification: EN61000 for EMC include FCC Rule CFR47, EN60950 LVD, MET-UL approval: IEC950/UL950
Dimensions	1200 x 1560 x 720 mm (w x h x d) - 47" x 61" x 28.4"
Weight	225 kg (engine and front-end PC), 330 kg (crated for shipping)
Power	Engine: 98-132 VAC or 196-264 VAC at 50/60Hz, single phase less than 500 VA load Vacuum pump: either 100v 50/60Hz IEC unit or 230v 50/60Hz EN unit (separate connection)
Operating Environment	+15ºC to +25ºC, 10% to 60% relative humidity (non-condensing)
Interface	USB 2.0 connection to external Control PC
Cable	Maximum USB cable length 5 metres (16 feet)
Platform	External Pentium PC with Windows
RIP	Torrent (Harlequin) PostScript 3 RIP, PDF 1.5 compliant
File formats	Accepts 1-bit TIFF bitmap files, compressed formats CCITT Group 4, LZW and PackBits, PDF
Applications	Engine Control and Plate Management Software
Diagnostics	Remote diagnostics as standard
Job Archival	Writeable CD ROM

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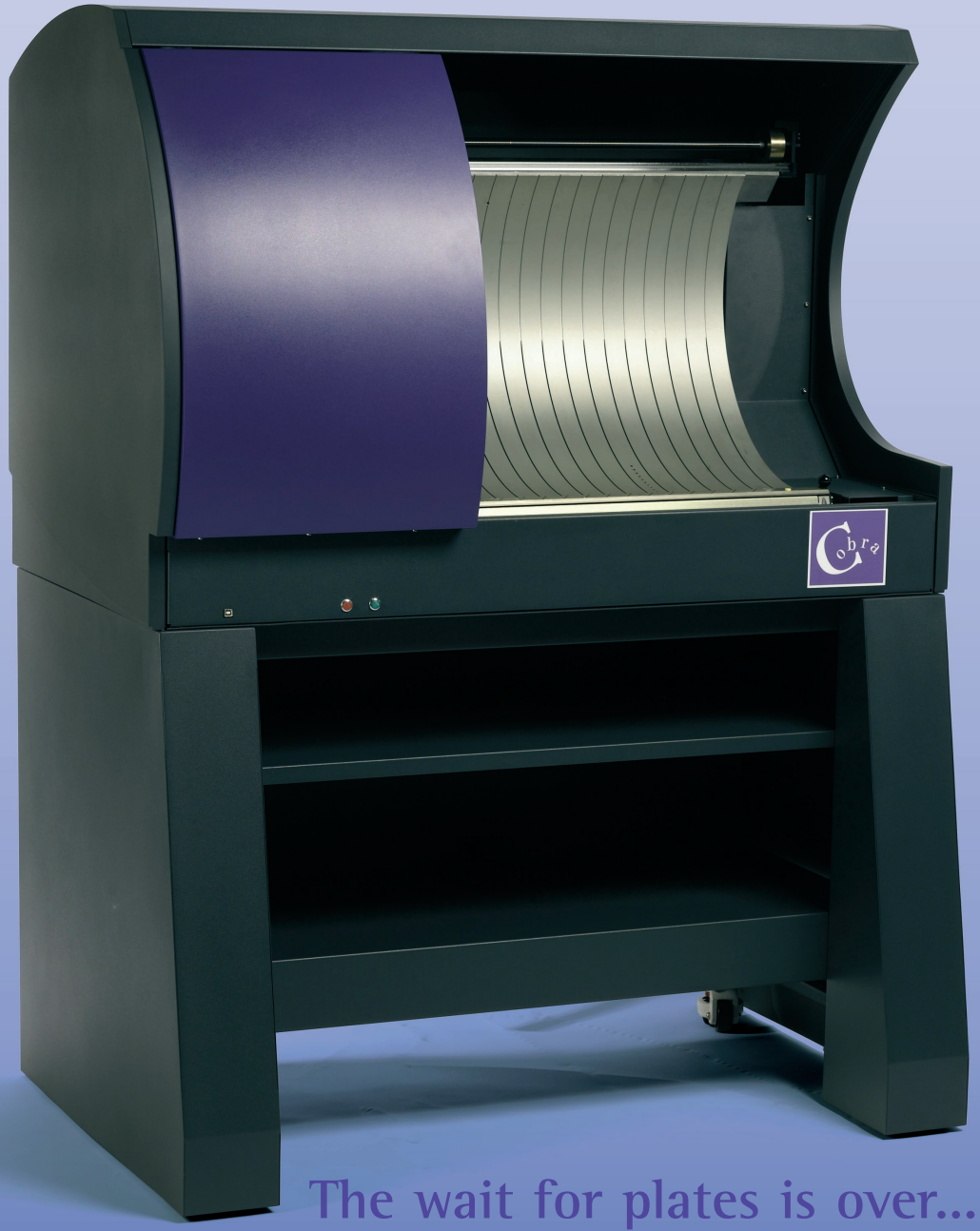
HIGH WATER

Cobra

Making CtP work for you



The wait for plates is over...

HIGH WATER

Cobra

Key Benefits

- **Quality**
  Cobra's imaging quality is superb with its powerful 60mW violet laser. Its precise optical system is capable of imaging with screening resolutions of over 200 lpi, giving excellent results on plate.

- **Speed**
  The wait for plates is over with Cobra's high speed spinner, designed for fast imaging. Combined with easy plate handling, this enables Cobra to output up to 30 plates per hour, including plate load/unload time.

- **Reliability and Accuracy**
  Cobra uses a high precision internal drum and violet laser technology – a combination proven to give the most reliable and consistently accurate imaging on metal plate.

- **Affordable Performance**
  Cobra's low cost of ownership and competitive return on investment results in one of the most affordable CtP systems on the market.

- **Ease of Use**
  Cobra's plate management console software has been written specifically to make platemaking easy – it is so simple that anyone can use the system to produce plates quickly and reliably.

- **Versatility**
  With its standard USB 2.0 interface, Cobra can be connected to any suitable Windows PC RIP that outputs 1-bit TIFF bitmaps. This fast industry standard connection ensures that Cobra is a truly "open" system.

- **Future Proof**
  Cobra is capable of imaging all silver and photopolymer violet plates currently on the market, to give a wide range of plate options both now and into the future.

Cobra is a manual load-unload CtP engine designed specifically for the B3/2-up commercial print market. It exposes violet metal plates at high resolution, using high precision internal drum imaging optics and a 60mW laser.

The plate is placed directly into the drum by the operator, and located in the registration system. Vacuum is then applied to hold the plate in perfect register while it is imaged at a resolution of 2540 dpi (100 dpmm) at a speed of 6mm per second. A 2-up GTO plate takes only one and a half minutes to image, regardless of content.

The Cobra system includes a high-spec workstation running a Torrent PS RIP, with a full complement of software applications that enables rapid processing and output of jobs to the Cobra. A software option for Simple Imposition is available. It provides an easy-to-use, automatic 2-up imposition facility, which is targeted at 2-up conventional printing that does not require complex imposition.

2-up Metal CtP

Computer to Plate

COBRA

Making CtP work for you

The benefits of using Cobra in your workflow are compelling. Its quality and speed of output let you produce plates to meet the ever increasing demands of today's print shop. Cobra's simple and clever design, with remote diagnostics, ensures an extremely high level of reliability with minimum downtime. This will put you ahead of your competition in the quest to satisfy your customers' high expectations.

Combining all these benefits with low cost of ownership, Cobra provides affordable metal plate production with an excellent price/performance figure. Additional features such as CIP3/4 ink-key setting and ROOM proofing help to ensure an investment geared for long-term success.

Using HighWater's Barcode ID software, which generates a unique identification mark on the plate, users can easily retrieve jobs for re-making plates.

Registration Configurations:
Cobra has a double-sided registration bar, with 2 factory-configurable systems available per machine. This makes it ideal for printers who, for example, use both 220 mm and 425 mm register pins in their presses. Other systems can be configured on request.

System 1: 220mm 'Bacher' press notch registration

System 2: 425mm 'Bacher' press notch registration

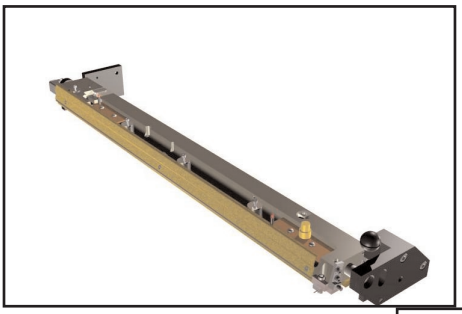
System 3: Corner registration

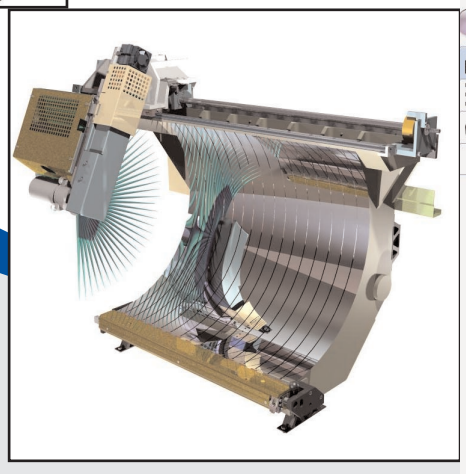
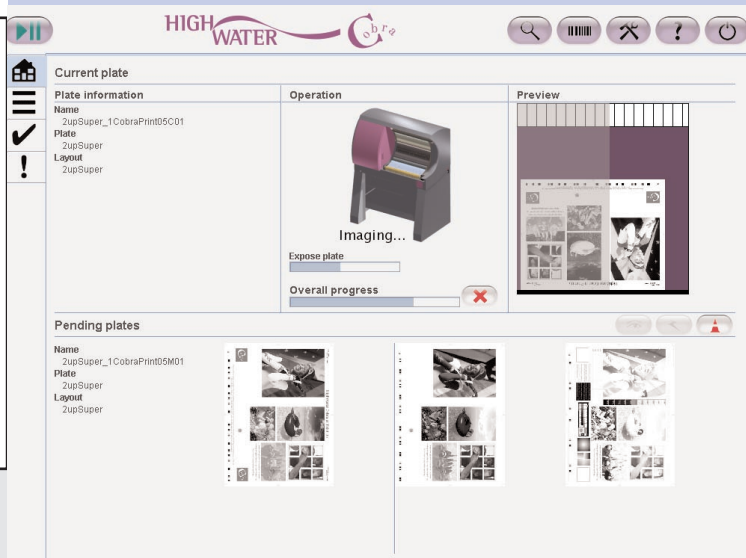
System 4: Customer specific configuration

User Interface
A new simple Java-based user interface for 'point and click' plate production has been specifically designed for Cobra. With 'at a glance' multiple views, a home view showing previews and status of current jobs, overviews of all queues and completed plates, it is a powerful and highly effective tool in the plate production process. (See screen shot, bottom right.)

Cobra System Options

RIP	Simple 2-up Imposition
	HWRoam
	TrapPro
Proofing	PixelProof ROOM solution
	Torrent ProofReady
Press Data	InkMonitor Light
	InkMonitor Pro
Tools	Barcode ID Plate Identification Mark



Registration system

Internal drum imaging