

Goss Universal Press Control Upgrades

Do you need to address obsolete and unsupported components?

Have parts of your press become unrepairable?

Goss Universal presses from the 1990s and 2000s equipped with Allen-Bradley hardware are faced with maintenance and support issues as hardware is now obsolete. As a result, production on these presses is under threat with MPUs becoming a single point of failure and 808 and 859 modules becoming unserviceable.

Upgrade Overview

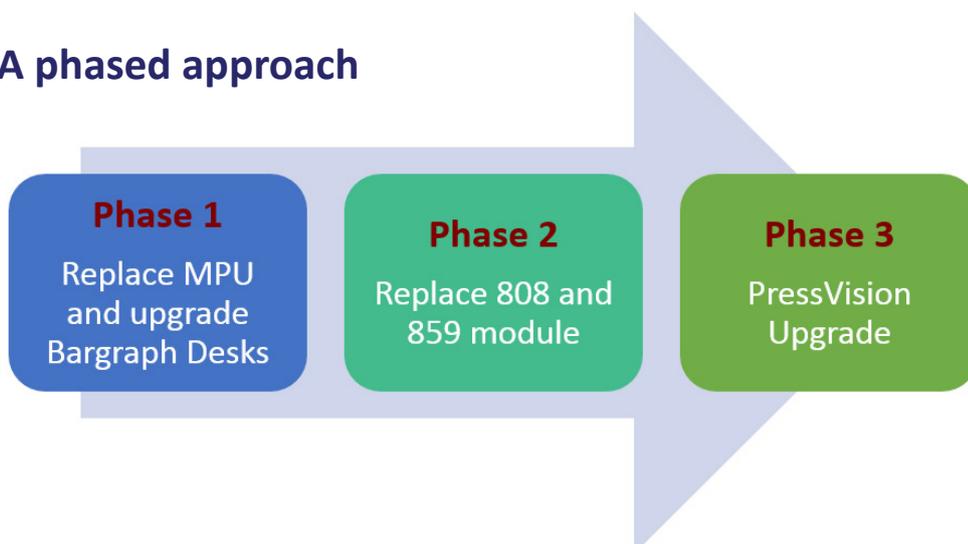
Harland Simon offers hassle free and cost effective upgrade solutions for any type of press including Goss Universal. Over the past 30 years we have upgraded hundreds of presses including over a dozen on the Goss Universal range.

So, why put your production at risk with obsolete components?

Key Benefits

- ▶ Proven upgrade solution
- ▶ Phased approach to spread investment over time
- ▶ No production downtime
- ▶ More efficient operation
- ▶ Helps to future proof your press

A phased approach



Phase 1 MPU Upgrade and quality screens

MPU Upgrade

A PC replaces the MPU functionality and has HDLC interfaces to the existing on-unit 808/859 quality controllers. It also features ethernet interfaces for new Harland Simon controllers. This means that a combination of existing and upgraded components can be run on the same press. This enables a flexible and economic upgrade approach, for example, when one part on an old press is replaced and spares are harvested to support the remaining system.



Quality Screens

The Prima Console uses the latest generation of wide-screen monitors with higher resolution and greater display area. This means offers more relevant functionality on each screen layout which, in turn, reduces the need to switch from one display to another. Reduced keystrokes and fewer displays make operation more efficient and reduce waste.



Event	Date/Time	Location	Event	Speed
1	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
2	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
3	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
4	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
5	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
6	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
7	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
8	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
9	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
10	12.12.2012 16:07:42	Unit 10	Analogue camera to Printer failed	0
11	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
12	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
13	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
14	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
15	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
16	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
17	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
18	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0
19	12.12.2012 16:07:42	Printer	Link from Printer to Press failed	0

Phase 2

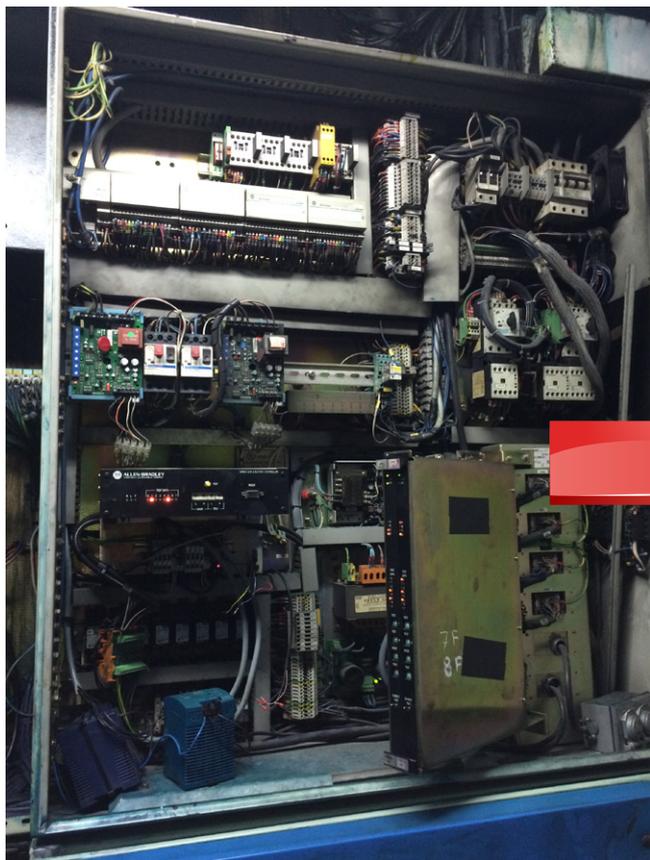
On-unit controls 808 and 859 module upgrade

Initially the on-unit controls 859 and 808 modules remain on the units, interfaced via HDLC to the new PCs (MPU replacement), allowing the upgrade project to be spread over time.

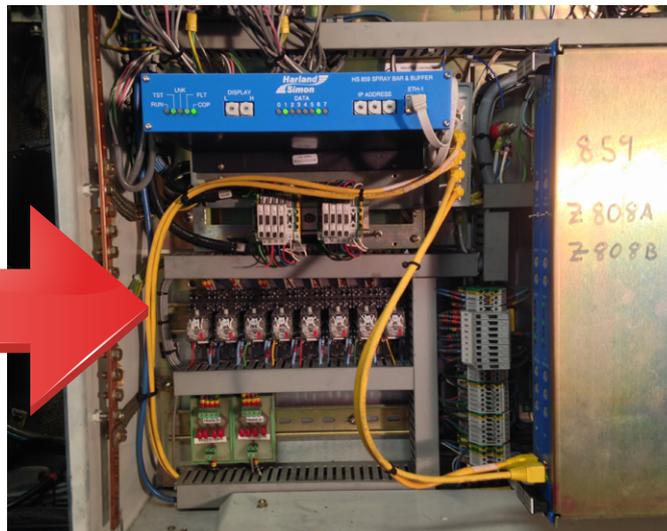
The use of plug-in replacements means no downtime for your press.

The modules can be replaced as follows:

- ▶ An ARM-based controller, one per couple, is used to replace the Z808 modules (Ink & Registration)
- ▶ An ARM-based controller, one per level, is used to replace the 859 module (Damp)
- ▶ The HDLC communications is replaced by Ethernet to the new modules.



Before: Allen-Bradley 808 and 859 modules



After: HS Solution showing ethernet connections

Phase 3 PressVision Upgrade

The PressVision upgrade replaces press desks PC, moving all controls onto the Prima Control Screens; in addition, the press PLC is replaced with a modern off-the-shelf Allen-Bradley Logix Processor.

- ▶ Replace IO and functionality associated with the SLC or PLC/5 Rack in the press desk
- ▶ Move all PressVision functionality to the Prima Control Screens

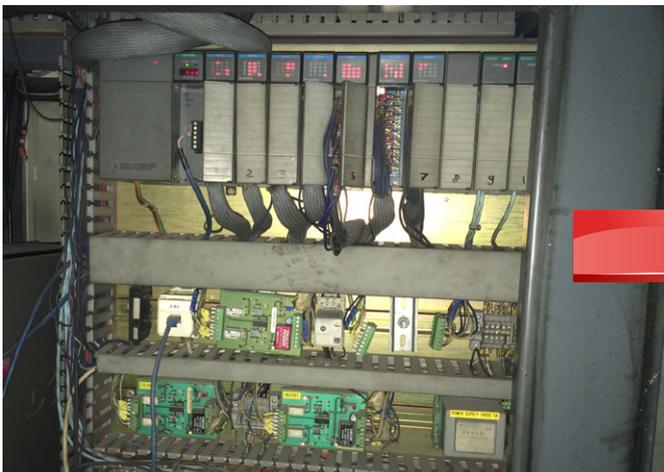
- ▶ Enable other controls, not originally integrated into the PressVision screen, but hardwired direct from the press desk, to be integrated into and controlled from the Harland Simon Control System, creating a single point of operation.



Prior to Upgrade: PressVision Screen



After upgrade: Harland Simon touchscreen solution



Obsolete SLC/PLC 5 Rack



Up-to-date Allen-Bradley Logix rack