

Recognize this diamond?
It looks like one of your
presses.

**Knowing
which one will
make you thousands
of Euros.**

perfect
proof^{er}



Since first introduced in 2002, the Perfect Proofer® automated ink proofing system has evolved several times – with each model incorporating successive generations of new technology. Today, the system lets process control specialists use Dot Gain Technology™¹ to preview exactly how any ink formulation will reproduce on the press for which it's intended. Any substrate; UV, water- or solvent-based inks; all can be previewed equally well.

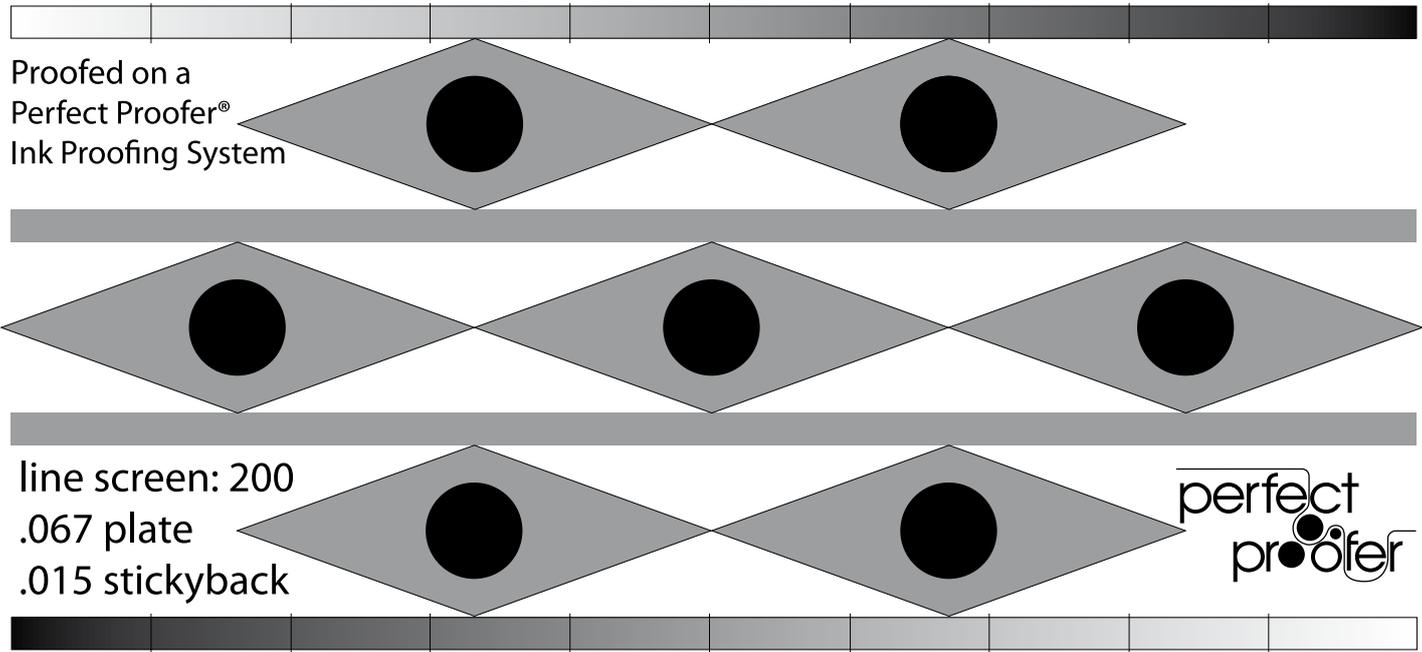
Is this Fingerprinting? No.

FINGERPRINTING IS NOW OBSOLETE

Today's Perfect Proofer proofing system takes the industry far beyond fingerprinting. Instead, it lets ink lab techs preflight their formulations under actual press conditions:

- Using the same plate and stickyback materials as will be used on the press,
- Proofing with aniloxes that have the same cell count and volumes as will be used on the press, and of course,
- Running on the same stock that's specified for the job.

In short, with a Perfect Proofing system technicians measure an ink's color and density at the same dot gain as it will experience on-press.



Proofed on a
Perfect Proofer®
Ink Proofing System

line screen: 200
.067 plate
.015 stickyback



Figure 1 (above) shows the pattern from a typical Perfect Proofer ink proofing system test plate. All diamonds are the same 50% grayscale surrounding a solid bulls eye.

Need to know how an ink formulation will reproduce on a press with an 18% dot gain?

Simply adjust the system's nip and speed controls until you have a 68% dot at your target density. The color readings you have there will

be the color readings you'll have on press. If they are within an acceptable ΔE , the ink is ready to go. If not, you adjust the formula WHILE STILL IN THE LAB².

It's just that simple. By letting the ink lab mimic any press's most crucial reproduction characteristics – dot gain and density – the Perfect Proofing system produces an actual press proof without ever having to leave the lab.

¹ Dot Gain Technology™ definition; If ink for a target press is prepared with a testing device using the same press components and same print characteristics as the target press, the ink sample prepared will perform as desired on the target press.

² Where your hourly costs are just a minuscule fraction of what you would have to swallow adjusting color on-press.



Increase your capacity; slash your costs.

Without spending anything on new presses, the Perfect Proofer ink proofing system normally adds thousands of euros of new press time to an average flexo plant.

Run this simple calculation in your head.

If it takes 15 minutes to correct a color on press,
• and you eliminate 8 such events on every shift,
• and you run 2 shifts per day,
how many hours does that equal in a 250-work-day year?

Answer: You now have over 1000 hours of newly billable press time – all created simply because all your colors run exactly right the first time. If those presses bill out at just €140 per hour, that's a quick €140,000 in new capacity right there. (Yes, those quarter hour increments really add up!)

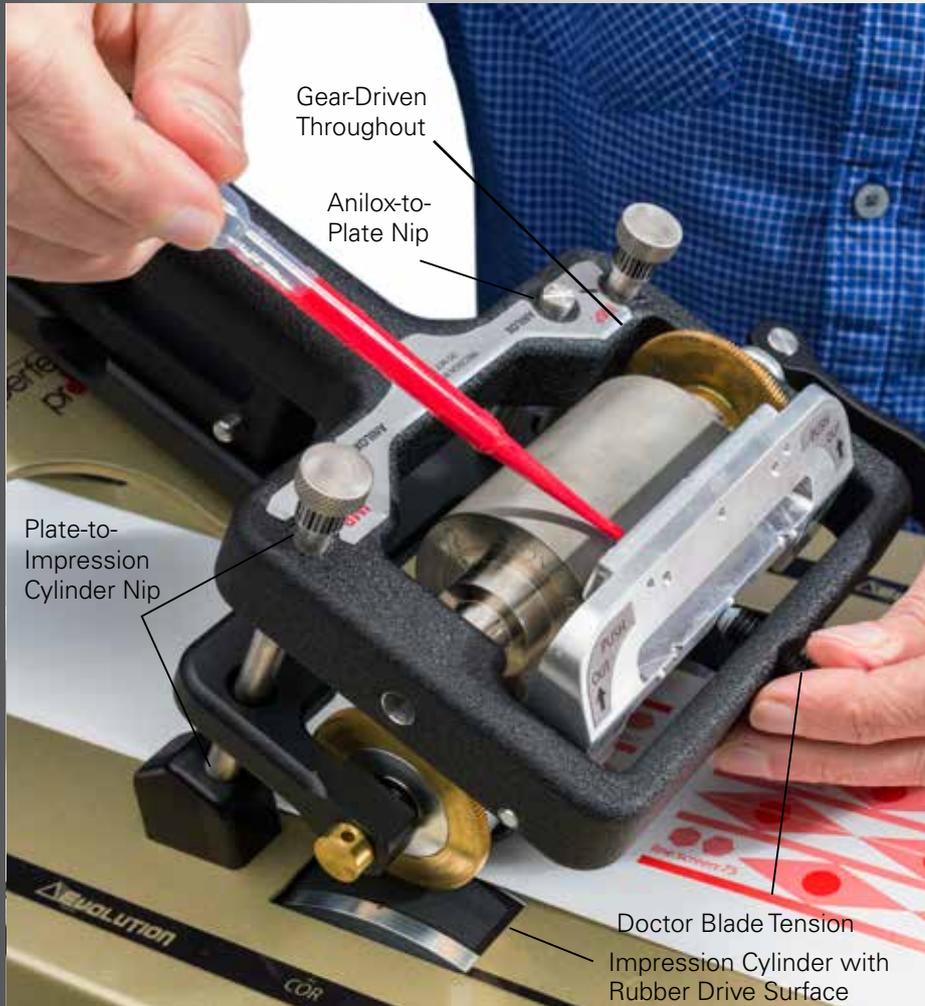
You didn't add new presses. You didn't add any new labor. You just added a Perfect Proofer ink proofing system.



Plants that follow G7 color protocols can proof grayscales with the Perfect Proofing System. Typically those labs will have three proofing heads, each with either a cyan, magenta or yellow plate premounted.

Oh yes; what about all the stock and ink money you won't be wasting when your presses are idling while colors are being adjusted?

The plant just described will save thousands there also.



Technology made easy.

Anyone who can read a photodensitometer can learn to operate a Perfect Proofing System in about an hour.

Plates mount on the proofing head just like they do on a press. After only a couple tries, most technicians are comfortable with how the stickyback and photopolymer wrap on the cylinder.

Beyond that, it's really just a matter of familiarizing one's self with how the micrometer settings affect alignment and nip.

What about loading stock?

Just tape the leading edge to the take-up spool.

What about speed control?

The gauge reads in m/min. so dialing in a speed is simple. (In most situations, we recommend starting at 15 m/min.)

Beyond nip, speed and stock, loading an appropriate amount of ink on the anilox is the only other significant operational issue. That's really about all there is to it.



Convenient Cleanup too.

Cleanliness is crucial for accurate readings, and anyone familiar with flexo inks knows that print heads must be cleaned IMMEDIATELY. The Perfect Proofing system includes an automated cleaning system that makes this possible. Once a proof is pulled, simply uncouple the proofing head from the machine's turret and snap it onto this Clean Machine. Push one

button and the proofing head components spin in a stream of press-wash.

After 30 seconds clean-up is done. Just remove the proofing head from the cleaning system and dry it off with the Clean Machine's compressed air hose. In less than a minute the proofing head has been cleaned and is ready to pull another proof.



Contact Information

The Perfect Proofer ink proofing system is manufactured by Integrity Engineering, Inc. (USA) and distributed in Europe by Print Proof Solutions B.V.

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perfect
proofer

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Specifications

Perfect Proofer:

Footprint = 130 cm x 45 cm
Height to top of proofing head = 41 cm
220 V (only if optional drier is attached)
Required air supply: 6 bar, 850 NI/min
Weight = 20 kg

Clean Machine:

Footprint = 45 cm x 45 cm
Min. available height = 38 cm
Required air supply: 6 bar, 850 NI/min
Weight = 20 kg
Customer provides freestanding app rox. 25 l reservoir.

Components

Base unit, roll support, rewind take-up, one photopolymer plate proofing head (ES200) with one anilox 2" (50 mm) diameter.

Options:

- DR200 rubber transfer roller instead of photopolymer plate cylinder
- Additional ES200 photopolymer plate proofing head
- Additional photopolymer plate cylinder
- UV drier
- Clean Machine automated clean-up unit for proofing heads

Perfect Proofer is a registered trademark and Dot Gain Technology is a trademark of Integrity Engineering, Inc.