

HP Indigo Commercial Finishing – **Direct2Finish**

Anat Hering Updated: 10 Sep 2014

Look up the most updated version @ www.hpwsn.com/HP-Indigo-Direct2Finish

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Important note – how to use this document

Implications of the reference model

HP Indigo works with finishing partners in a reference model*, i.e.: HP is responsible only for our own products, and the finishing vendors are solely responsible for their products – including in the case of solutions that are integrated in-line with our presses. This means that the finishing vendors are exclusively responsible for providing full and accurate information about their products, performance of the product, sales and support etc.

This document is intended to support the HP sales teams in providing our customers with information about the partner's solution, to help the customer identify potential needs and to familiarize them with available partner solutions. However, we as the HP team cannot commit to any of the information concerning the finishing vendors, their products or their capabilities.

If a solution is of interest to the customer, they must engage directly with the finishing partner on all issues concerning the finishing solution. This includes verifying and completing all information and processes required to support their decision-making, performing their own due diligence, setting expectations and finalizing the commercial engagement, including support of the partner's solution.

We as the HP sales team need to make sure this is clearly conveyed to the customer, to set expectations and to avoid any misunderstanding.



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- * Except where HP is reselling finishing products

A world of short-runs

To be **competitive and grow** your business, you must offer **high quality jobs and differentiation** to your customers. This requires unique jobs and format sizes, and leads to **Shorter run-lengths**.

And while HP Indigo enables you to deliver this to your customers through digital printing, **finishing is still a bottleneck...**

As a result, **set-up as a percentage of the overall production time** is increasing... and will continue to grow.



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Have you ever stopped to consider...

How often do you **throw away Work In Process due to errors** in cutting, or in the set-up or operation of another finishing device, and **need to reprint** the job?

What is the **make-ready time** required to set-up the guillotine / another finishing device?

What do you do when your **skilled guillotine operator is on leave** (or other finishing device) ? How many of your operators can operate the guillotine?



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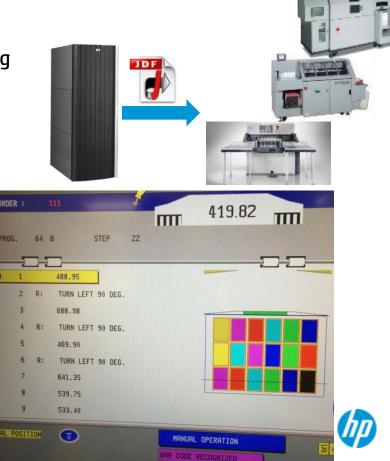
Direct2Finish – why do I need it and what does it do?

Finishing requires multiple manual make-ready and handling steps. These are time-consuming, prone to costly errors – wasting work in process – and require a skilled operator. In a world of growing short-runs, increasingly unique in format sizes, the challenge multiplies exponentially.

Direct2Finish delivers set-up and operational instructions to the bindery via JDF –

automatically, from Production Pro print server. All that remains for the operator are two simple steps:

- 1. Scanning the barcode on the banner sheet
- 2. Following simple operational instructions, which are often animated.







Direct2Finish - a disruptive solution automating the bindery using JDF

Direct2Finish delivers:



- Faster turnaround
- Eliminate costly errors and waste
- Reduced labor costs and **dependency on a skilled** operator
- Efficient production of high-value jobs
- Differentiation from the competition

Leverage existing operation, and a variety of applications -

- Direct2Finish supports the PSP's existing finishing equipment no need for major CAPEX investment.
- Direct2Finish also supports **concatenated lines** for production of complex, multi-step jobs.



Customer story: iPrint

- Established: 2009
- Location: Be'er-Sheva, Israel
- **Employees:** 40
- **Applications:** commercial printing
- Indigo equipment:
 - HP Indigo 7600 Digital Press
 - HP SmartStream Production Pro Print Server v5.0.2

Imposition: on the DFE

JDF-enabled finishing equipment: Guillotine: High-speed cutter POLAR N78 Pro with CompuCut







The need: High number of non-standard short runs

High number of short runs

• Dozens of jobs per day



High number of cuts

- Average cuts per job: 18
- Up to 50 sheets: Cost of cutting > cost of (paper + printing)

Non-standard jobs

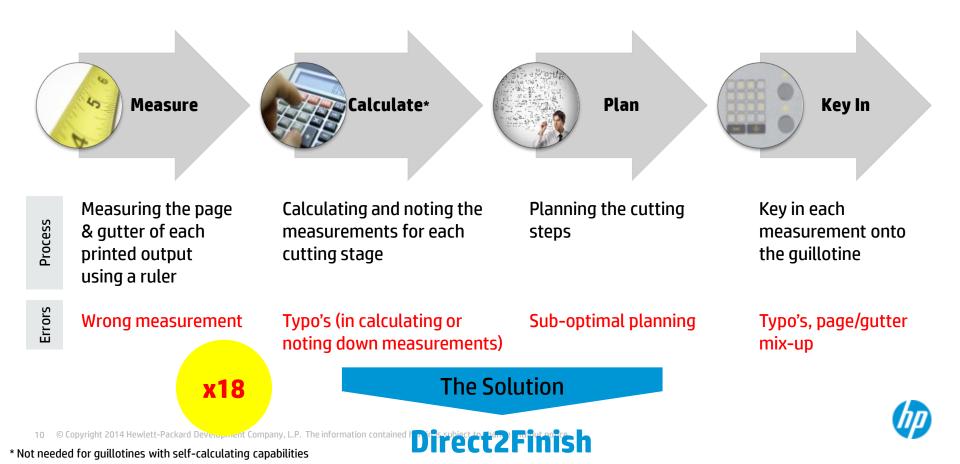
- 80% of jobs are non-standard format sizes
- Variety of sheet sizes
- Multiple up's
- Non-standard is a growing trend



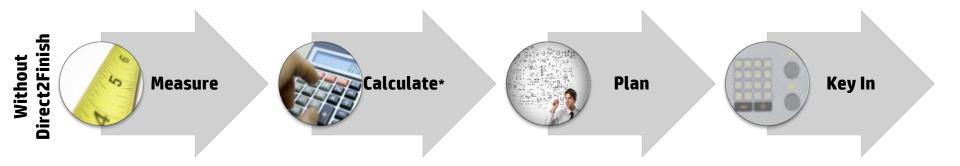
Inefficient to use pre-programmed setup plans



The cutting challenge: Multiple manual steps



Direct2Finish – Automate cutting: Reduce and Simplify manual steps



The job layout is defined by the DFE, received by the guillotine via barcode and translated into setup and optimal cutting instructions – all automatically, using JDF





© Copyright 2014 Hewlett-Packard Development ComparScan, barcode, on banner, pagege withou Follow animated instructions

* Not needed for guillotines with self-calculating capabilities

With Direct2Finish

Direct2Finish "behind the scenes": how does the automation work?



Preparation

Communication

When processing the job, Production Pro prepares a JDF file for the finishing devices, describing the job layout When the operator hits "Print", the JDF file is simultaneously sent to the finishing devices (over the network)

When the job completes printing, a banner page with a barcode is printed

Banner sheet

Loading instructions

When the barcode is scanned by the finishing device, it automatically pulls the relevant JDF file and translates it into setup and operational instructions

Fully automated



Direct2Finish impact at iPrint





Faster turnaround

- 80% of cutting-related handling time saved
- Finish in-house more jobs, which were previously outsourced eliminate bottleneck and capture more jobs



Eliminate costly errors

- Work in process; capture lost opportunities of incremental jobs due to the need to reprint
- Reduce waste



Lower labor costs

- Does not need to rely on a skilled operator
- Free up operator's time for other tasks



Differentiate

• Unique formats, high-value applications



D2F impact in numbers...

Cutting costs					
H/W	Guillotine price	NIS 200,000			
	Depreciation (years)	5			
	Guillotine cost per month	NIS 3,333			
	Knife maintenance (per month)	NIS	1,000		
	Knife replacement cost (per year)	€	1,700		
	Exchange rate	C	4.6		
	Knives per set replaced per year	NIS	3		
	Knife replacement per month	NIS	1,955		
	Net hours per 9-hour shift		5		
	Days per month		21		
	Hours per month		105		
	1				
Labor	Labor cost per hour	NIS	50		
	Labor cost per month	NIS	5,250		
Real estate & utilities NIS 3,000			3,000		
Total	Total cost per month	NIC	14,538		
TULAI	Total cost per hour	NIS	14,558		
L	iotai cost per noui	1413	130		

	Production and business implications		
			Matanafitabl
	Time to cut job with D2F (minutes, average)	10	Not profitable
	Jobs cut per hour (without D2F)	6	to absorb in
	Cutting cost per job	NIS 23	short-runs
Without			
D2F	Jobs per day (without D2F)	30	Cost of WIP
	% of jobs going to waste due to cutting errors	5%	gone to
	Jobs going to waste due to cutting errors per day	1.5	waste, and
	Net jobs completed per day w/o D2F	28.5	alternative
	Time to cut job w. D2F (min, average, conservative)	5	cost of
	Jobs cut per hour with D2F	12	incremental
	Cutting cost per job	NIS 12	job missed
	Potential labor savings for original jobs (per month)	NIS 2,625	due to need
			to reprint
	Jobs cut per day with D2F	60	toreprint
With	% of jobs going to waste due to cutting errors	0%	
D2F	Jobs going to waste due to cutting errors per day	-	
	Net jobs completed per day with D2F	60	
	Size of opportunity (no. of jobs)		
	with D2F vs. without D2F		
	(excl. incremental opportunity due to reduces costs)	211%	
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iPrint current production with Direct2Finish



Use Direct2Finish for > 90% of jobs impact on cutting/handling process utilization increasing productivity by >100%

"It is the most wonderful thing that has happened in the world of cutting."

There is no way anyone would choose not to work with it.

It is so good that we won't do without it."

Shay Ben-Shimol, Founder and Owner, iPrint, Israel



More customers' experience – UK, Japan

Applications include: general commercial printing, POS

Benefits - "Eliminates a massive bottleneck in finishing"

- ✓ Eliminates a lot of manual work
- ✓ Reduce errors
- ✓ Faster turnaround; "saves a lot of time on the guillotine", ~5 min/job
- ✓ Do not rely on a skilled operator
- Advantage over Prinergy: whereas Prinergy requires multiple pre-setups, D2F only requires 1 template for simplex and 1 for duplex
- ✓ Less workload for pre-press operator
- ✓ Less wait **queue** between tasks



Direct2Finish

Statement Statement

Solution components

	Press	 HP Indigo 7x00 HP Indigo 10000	
	HP SmartStream Production Pro	 S/W: v5.x H/W: G6 and up 	
	Finishing device(s)	 Supported devices - see dedicated slides 	
	Workflow / Products	 Workflow use cases see dedicated slides 	



Supported devices

Strategic, long-term initiative – at least 2-4 additional devices every year

Device		Vendor	Device model
Category	Туре		
	Guillotine	20143	Consult GBU/vendor
			NET models
Cutter		Horizon	APC 61II
Culler	Cut / Slit / Crease / Stack	Horizon	SmartStacker
		Duplo	DC-645
			PageReady (in Q4)
Perfect Binder		Horizon	BQ-270/280/470
3-knife trimmer			HT-30/80
Booklet Maker / Saddle Stitcher		c.p. bourg*	ExPress / BM-e (in Q4)
		Horizon	Stitchliner 5500



Imposition use cases

Direct2Finish is intended to be a fully e2e automated flow. D2F supports 3 possible imposition use cases:



Contact your SA for support in defining the customer's Direct2Finish workflow



Direct2Finish

Pricing

License-enabled option in Production Pro – sold separately

List price

- AMS/APJ: **\$10K**
- EMEA: **€5,000 / £ 4,300 / \$ 5,700**
- Sold <u>per site</u>

Limited time Promotion!

- D2F option will be bundled with each v5.x upgrade at <u>no additional charge</u>.
- Valid through <u>31st Dec. 2014</u>





Tools and documentation

Demo (3-minute) – <u>www.hpwsn.com/HP-Indigo-Direct2Finish</u>

Case study – Polar guillotine (iPrint) – <u>www.hpwsn.com/HP-Indigo-Direct2Finish</u>

Training @ SmartStream University – <u>https://cms.hpflowcm.com/pd/6UnUzBMzib2</u>

Technical documentation

- Web-based training –
 http://ent252.sharepoint.hp.com/teams/TM-IDPDFE/Shared Documents/HP SmartStream Production Pro Print Server/5.x/Direct2Finish
- User guide on MyIndigo @ <u>www.hp.com/qo/myindiqo</u>
- Ultimate User manual on MyIndigo @ <u>www.hp.com/go/myindigo</u>

Finishing vendors contact persons and dealers – Consult your regional category manager



FAQ

- **Q**: Does D2F support S2 presses? How about S2 presses running Production Pro?
- A: <u>Only S3 and S4</u> presses are supported, due to the solution architecture. S2 presses running Production Pro are not supported either. One of the customers using D2F has seen such value in the solution that they are considering upgrading their S2 presses to S3, so all their jobs can be supported.
- **Q**: How many licenses will a multiple-press customer need?
- **A**: A D2F <u>license is required per site</u> (see <u>Pricing</u>). Even if a site has multiple Production Pro units, only one D2F license is required for the entire site.
- **Q**: What is the **<u>roadmap</u>** for additional devices?
- **A**: At least <u>2-4 additional devices</u> are planned to be added <u>every year</u>. We welcome your inputs on what devices are common and will deliver the highest value to our customers this will help determine which devices will be added to the portfolio next.







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