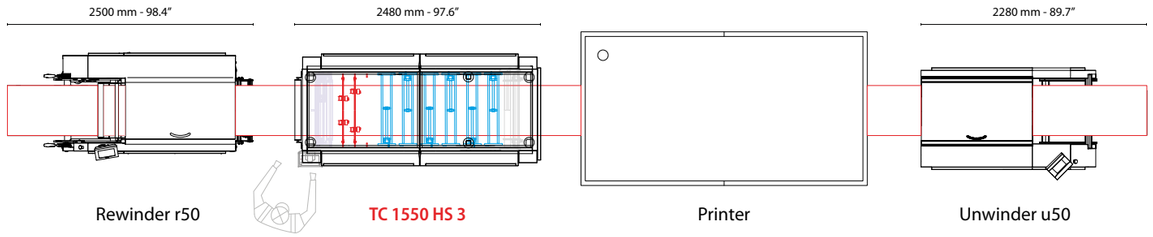
TC 1550 HS series

Perforate, punch & score where you want, when you want

Configuration Example



Technical Specifications

Paper Specifications

Dynamic cross perf./score	2, 4 or 6 half web cylinders for 2-up applications	
Blades per cylinder	1 blade per cylinder as a standard (field upgradable) 2 blades per cylinder with the optional Performance Package	
Dynamic vertical perf./crease	2, 4 or 6 independent knives	
Punch hole pattern	dynamic 2-, 3-, 4-holes or tractor hole punching	
Punch hole diameter	0.1" - 0.3"	3 - 8 mm
Corner punching	Round corner & 45° die cut	
Speed perforating	up to 800 ft/min Max perforating speed is application dependent	up to 240 m/min
Speed punching	up to 525 ft/min Punching over 425 fpm requires application review.	up to 160 m/min
Speed tractor punching	up to 590 ft/min	up to 180 m/min
Cross perf. distance	depending on model configuration	
Paper weight Available paper weight range varies depending upon the exact model – consult Tecnau for more info	10.67# Bond - 10 Point	40 - 250 gsm
Web width	4" - 23"	102 - 584 mm
Web processing width	4" - 20.5"	102 - 520 mm
Form Length	4" - 32" up to 88" special	102 - 812 mm up to 2235 mm special

Electrical & Environmental

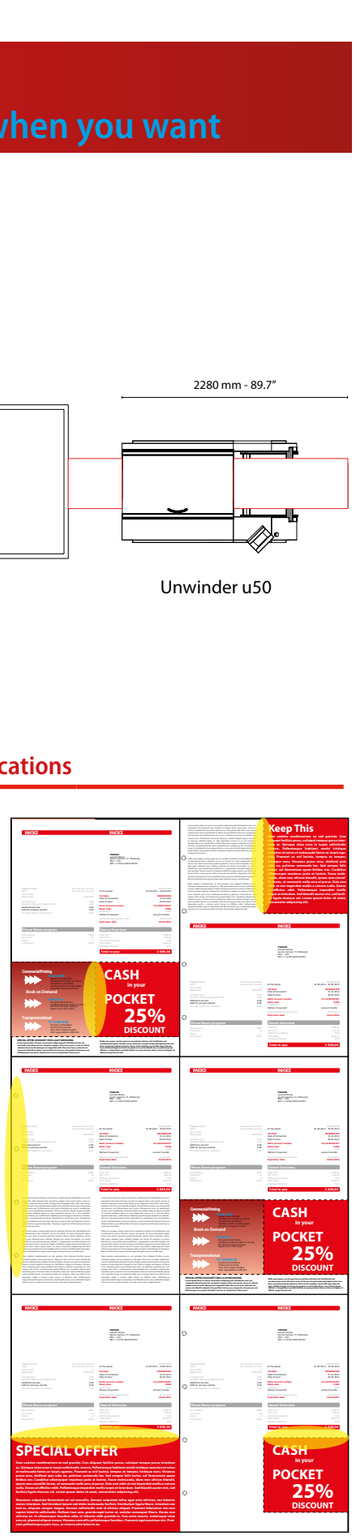
EU 3Ph+PE, 400Vac, 50Hz	7.5A **1 & 1E**, 15A **1P**, 11A **1PF**, 11A **2 & 2E**, 18A **2P**, 15A **2PF**, 14A **3**
US 3Ph+PE, 480Vac, 60Hz	6A **1 & 1E**, 12A **1P**, 9A **1PF**, 9A **2 & 2E**, 15A **2P**, 13A **2PF**, 12A **3**
Air consumption	TC 1550 HS **1, 1E, 2, 2E, 3** models: 50 l/min @ 4 bar, dry and clean TC 1550 HS **1P, 1PF, 2P, 2PF**: 200 l/min @ 4 bar, dry and clean

Available Applications

Depending on the configuration 2, 4 or 6 independent vertical knives dynamically perforate the paper stream. More knives can be added upon request.

Dynamic file hole punching module with 2 independent punching wheels for dynamic 2-up production. Tractor hole punching module also available.

Dynamic cross perforations can be made using 2, 4 or 6 independent half web cylinders depending on the model. Each cylinder can be equipped with 1 or 2 blades for max performance and speed.



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Processor Products

TC 1550 HS series

Perforate, punch & score where you want, when you want

TC 1550 HS series High Speed Processor for Dynamic Perforating, Dynamic Scoring & Creasing, Dynamic Punching and Tractor Hole Punching

- ✓ ***Dynamic perforations vertical & horizontal***
- ✓ ***Dynamic file hole punching option***
- ✓ ***Dynamic scoring & creasing***
- ✓ ***Static pinfeed punching option***
- ✓ ***Speed up to 240 m/min (800 ft/min)***
- ✓ ***Field upgradable***

Produce remittance stubs, coupons, convenience checks, 3-ring binder pages and tear-out workbook pages in-line with your high-speed digital printer. The TC 1550 HS processor creates on-demand horizontal and vertical perforations, and offers options for static pinfeed punching or dynamic file hole punching, yielding user-friendly documents for your customer and application flexibility for you.

The HS series features an optional Performance Package upgrade with two perforation blades per shaft (field-upgradable), nearly cutting in half the minimum horizontal perforation repeat available at a given speed. A 2D Datamatrix, barcode or OMR code on each page triggers one of up to 89 pre-programmed perforation patterns page-by-page within your job.

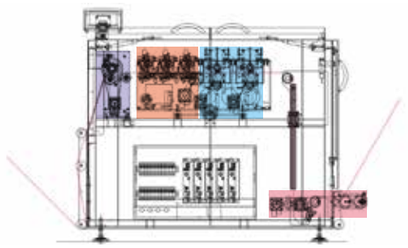
Choose from dynamic perforation models with two, four or six horizontal and vertical perforation devices to best match your needs.

Dedicated horizontal scoring and vertical creasing stations may be added to perf stations, further supplementing your processing options. The TC 1550 HS features automatic page length detection and automatic synchronization after blank paper. Optional tensioner or detensioner modules to match your printer operation are available on-board for reduced footprint. Expandable models are also available with free space for future in-field upgrades.

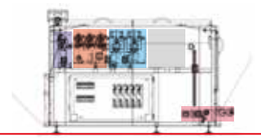
Global service and around-the-clock support help ensure our reputation as the industry's reliability leader. Our products increase productivity, cut labor and paper costs, and even make new applications possible - Tecnau solutions truly empower digital print to help you do more with less.

TECNAU
Empowering Digital Print

TC 1550 HS 1

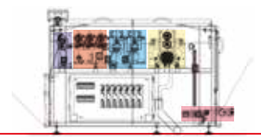


Detensioner (optional)	STANDARD: 2 vertical perforation knives on 1 shaft OPTIONAL: 4 additional knives on 2 shafts for a total of 6 independently positionable knives. Creasing knives are available also.	2 dynamic cross perforation half web cylinders for 2-up production	Tensioner (optional)



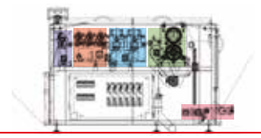
TC 1550 HS 1E

Added space for cross scoring, or field upgrade with 2 cross perf. cylinders or 1 dynamic punching unit or 1 tractor hole unit



TC 1550 HS 1P

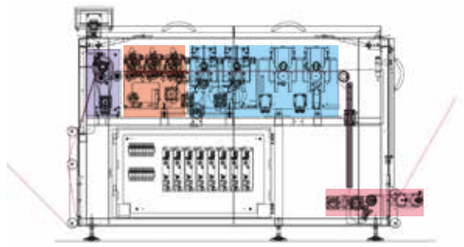
Added 1 dynamic punching unit with 2 punching wheels (2 side punching)



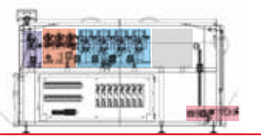
TC 1550 HS 1PF

Added 1 tractor hole punching unit with 2 punching wheels (2 side punching)

TC 1550 HS 2

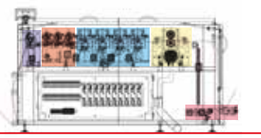


Detensioner (optional)	STANDARD: 4 vertical perforation knives on 2 shafts OPTIONAL: 2 additional knives on 1 shaft for a total of 6 independently positionable knives. Creasing knives are available also.	4 dynamic cross perforation half web cylinders for 2-up production	Tensioner (optional)



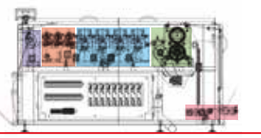
TC 1550 HS 2E

Added space for cross scoring, or field upgrade with 2 cross perf. cylinders or 1 dynamic punching unit or 1 tractor hole unit



TC 1550 HS 2P

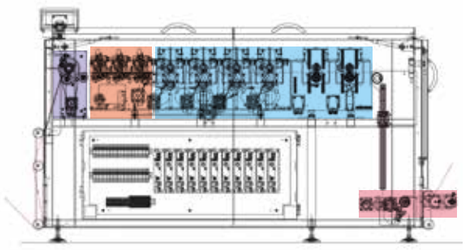
Added 1 dynamic punching unit with 2 punching wheels (2 side punching)



TC 1550 HS 2PF

Added 1 tractor hole punching unit with 2 punching wheels (2 side punching)

TC 1550 HS 3



Detensioner (optional)	STANDARD: 4 vertical perforation knives on 2 shafts OPTIONAL: 2 additional knives on 1 shaft for a total of 6 independently positionable knives. Creasing knives are available also.	6 dynamic cross perforation half web cylinders for 2-up production	Tensioner (optional)

OVERVIEW OF MODELS

The TC 1550 HS series is available in 3 base models equipped with a variable number of wheels and half web cylinders to perform dynamic vertical and horizontal perforations at speeds up to 240 m/min (800ft/min).

Advanced modules are also available, for application needs beyond simple dynamic perforations.

For TC 1550 HS 1 and TC 1550 HS 2, the advanced models include:

- an (E) EXPANDABLE unit with available space for horizontal scoring, or future field upgrades for additional cross perforation cylinders or punching units.
- a (P) PUNCHING unit equipped with 2 dynamic punching wheels for 2-up file hole punching.
- a (PF) PINFEED PUNCHING module performing continuous tractor holes with 2 punching wheels.

All TC 1550 HS models work with tight web printers. An optional Web Tensioner is available for loose web input, and a Detensioner is also available when the web output must be loose for subsequent finishing modules. These components are available on-board to reduce the overall footprint of the entire print line.

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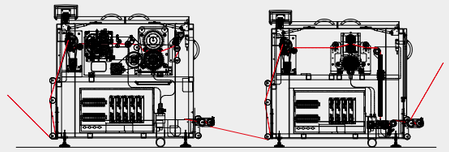
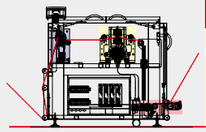
ADDITIONAL MODELS:

When three or more processing operations are desired in a single print line, two TC 1550 HS modules would be installed.

Connection is simple, with minimal space between the two modules, footprint is minimized.

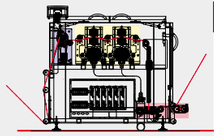
Solution Example Layout: TC 1550 HS 1P with TC 1550 DP1





TC 1550 HS DP1

1 dynamic punching unit with 2 punching wheels (2 side punching)



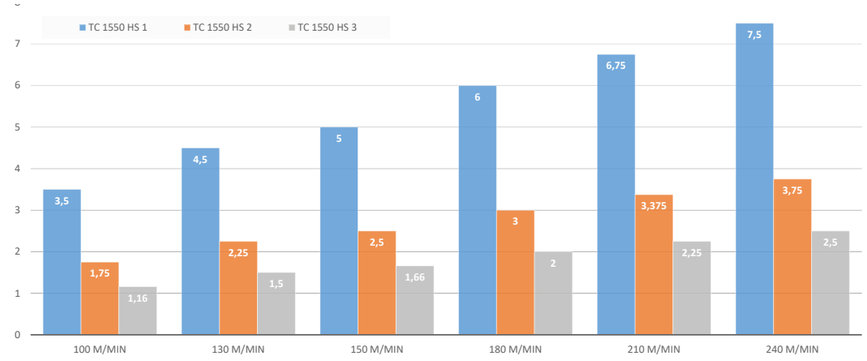
TC 1550 HS DP2

2 dynamic punching units with 2 punching wheels each (2 side punching)

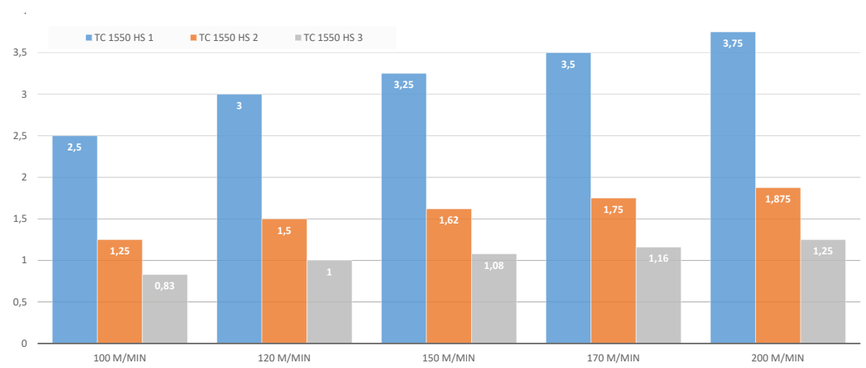
In this example to the left, the TC 1550 HS 1P is equipped with 2 independent dynamic vertical perforation wheels, 2 horizontal half web perforation cylinders and 1 dynamic punching unit with 2 independent punching wheels. With the TC 1550 DP1 one additional dynamic punching unit is added for different punching job applications.

CROSS PERFORATIONS DISTANCES IN INCHES

Minimum repeat distances at different speeds with one blade per cylinder



Minimum repeat distances at different speeds with two blades per cylinder



Contact Tecnau for full performance evaluation with your applications

Processor Products