

WORLD'S FASTEST MOBILE SMART FOLDERS



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What's changed in our machines from last three years is that we use **ball bearing slides** and that has dramatically improved the performance of our machines for large paginations. It's also been a huge step for cold set printing as less pressure is required to fold the products. The machine has evolved tremendously since then. We now provide **internet secure connection** capability for our folders in the past two years because of Covid and realized the importance of being able to deal with any customer programming requirements without being at your plant.



YouTube video that shows our improved folders and equipment installed at Transcontinental Printing across Canada. Please click on the following URL link herein below.



<https://youtu.be/-CRtKErEOa4>

New HD Video link of the new RADDAR FLYER production running 3.8 million copies per week at Transcontinental Printing. 40-page broadsheets are delivered by a Schur Mailroom Delivery System onto our LOVAGHY Line comprised of multiple conveyors, Crusher, HQF-24 Smart Folder, Exit Jogger, Bump-Turn Crusher and Custom Staircase. Folded Products enter a high speed Segbert compensating stacker and are then strapped and proceed into a Robotic Palletizer with virtual hands-free operation.



Picture above show the two entrance joggers to the new HQF-24. To achieve a **high folding accuracy**, we incorporated **two vibrating joggers** in place prior to the entrance of the folder to best center the copies especially at high speeds. We have created a **unique vibration system** that **vibrates the side belts as well as the bottom travelling belts**.





Front Panel on HQF-24

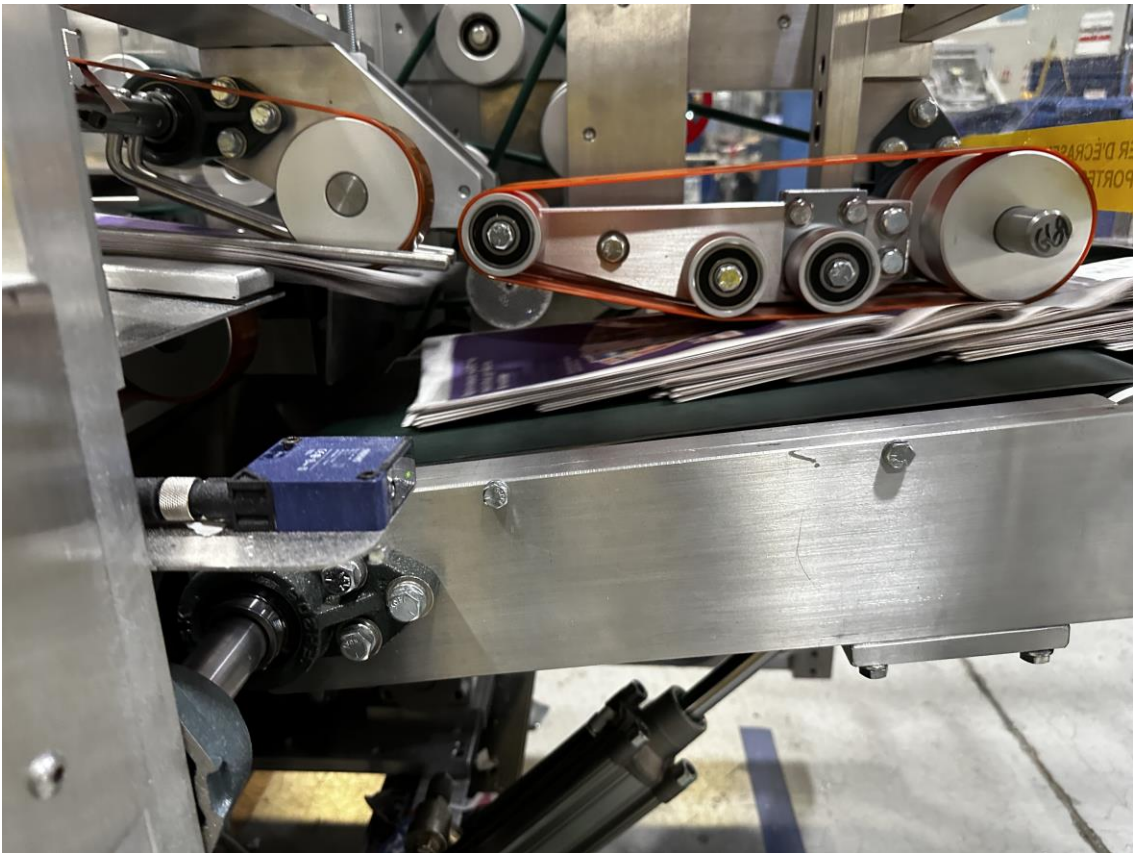


Picture of doors by passed so that I can take pictures or make small adjustments on the fly. This was a 48-page half folded broadsheet with a single broadsheet folded in half and run through our machine for a third fold in half with a single broadsheet cover.

One new Centralized 15" Diagonal Touch Screen built into custom stainless pivotal box to view from left or side of folder at approximate eye level.



Picture of a 96-page tabloid folded into 192 pages above shows the proprietary V shaped polyurethane belt used by the Smart Folder. You can see how the belt centers the product nicely and gently without damaging the book.



Picture above shows the exit reshingler with the door bypassed.



Picture of top view of Exit Jogger that is included with a HQF-24.



Picture of **Optional** Bump-Turn with Built in Crusher section.

Major Advantages of our HQF-24 Smart Folders:

Folding Tolerance:

The V shaped proprietary belt was designed by Lovaghy Enterprise for our Smart Folders. With a huge polyurethane V shaped belt the middle of the book is easily located together with our two separate vibrating belt joggers. The line is immediately shaped which provides high **accuracy** of the fold. The belt is rigid enough to maintain its location even after heavy production.

1. **Lovaghy's proprietary V shaped belt** provides **better fold accuracy** as it immediately defines the location of the new spine while it's still partially being held in the jogger section;
2. **Folds products from any delivery:** Our folder can fold products directly from a press, mailroom or offline with a wide margin in the shingle spacing.

3. **Jam Resistant:** Lovaghy's Smart Folder superior design is **virtually jam resistant**. It handles most skewed copies and other hiccups entering the folder without jamming the machine.
4. **Lovaghy's Belt Jogger** is again superior in design as we use hexagon wheels to vibrate/jog the copies into place. The new HQF-24 uses two separate belt joggers at the entrance to the Smart Folder.
5. **Easy Maintenance:** The HQF-24 is very easy to maintain as it has a lot **fewer components** than competitive models. Polyurethane belts are really the main consumables that need to be changed from time to time. Lovaghy's Smart Folder design comprised of fewer parts means **less maintenance**.
6. **Run a wider range of product sizes:** Lovaghy Smart Folders can run a much wider assortment of product sizes and paginations.
7. **Simple and easy to Operate:** The new **control panel** is state-of-the-art with **simple, easy to use** controls. Printers in general want to be able to use minimum experienced labor to get the job done more cost effectively. **Set-up time** is now faster and easier to do, as there are a lot less adjustments and fewer parts.

HQF-24 Standard Features & Specifications:

8. **Smart Folder Display:** The Smart Folder Display works with a programmed PLC that controls all the inputs and outputs for each electrical component and drive. By selecting & inputting the particular shingle spacing/pagination of the copy on the monitor's keypad, the Smart Folder automatically provides the optimized speed ratios for each particular drive.
9. **Internet Ready:** With a dedicated **Internet connection** the **HQF Smart Folder** allows Lovaghy technicians to perform upgrades in the software and the ability to monitor the machine's performance directly from Montreal.
10. **Five Motors:** A 1/2 HP gear-motor runs the entrance dump-gate while a 3HP motor provides exceptional performance for the jogger, folder and 90 degree. A third 2HP Extreme Duty Baldor Motor handles the High-Speed Section. A new gearbox with a 1HP Motor drives the exiting re-shingler conveyor. A fifth gearbox 1/2HP Motor drives the attached exit jogger.
11. **Five Schneider Altivar 312 Motor Drives:** Independently control the speed of each separate motor which are programmed to provide you with optimum performance.
12. **Tach Following:** Manual and automatic selector button allows you to choose setting. Automatic mode follows a 0 to 10Volt signal from the press or mailroom to match speeds. Can also be programmed to follow pulse signals when required.
13. **Voltage:** 230V 50/60 Hz – Operates in single or three phase power connection.
14. **2024 HQF-24 Dimensions:** 220.0"/5.588m Length x 38"/0.97m Width x 70.3"/1.785m Height. 255.6"/6.492m with Exit Jogger Attachment.
15. **Working Height:** 29.5"/0.750m
16. **New pneumatic lift:** Secures positioning so that the folder doesn't move during production.

17. **Approximate Weight:** 2,300 lbs./1043.3 kgs.
18. **Robust framing:** Assembled with custom extruded & machined aluminum components.
19. **16 Gauge stainless steel covers:** Provides good protection of the machine.
20. **Heavy-duty swivel locking nylon castors:** Provides easy mobility of the folder.
21. **Top of the line ball bearing pneumatics:** Control all sections of the machine with independent pressure regulators.
22. **Air filter, lubricator & regulator:** Provides clean lubricated air to the cylinders.
23. **Top quality Bearings:** Assure long bearing life.
24. **Sprockets and timing belts:** Provide positive traction & accuracy.
25. **Schneider Photo Electric Sensors:** Provide smooth accurate performance.
26. **Transparent Polycarbonate panels:** Provide very good security and maximum visibility of the product stream.
27. **Magnetic Security Door Locks:** Provide maximum security to operators.