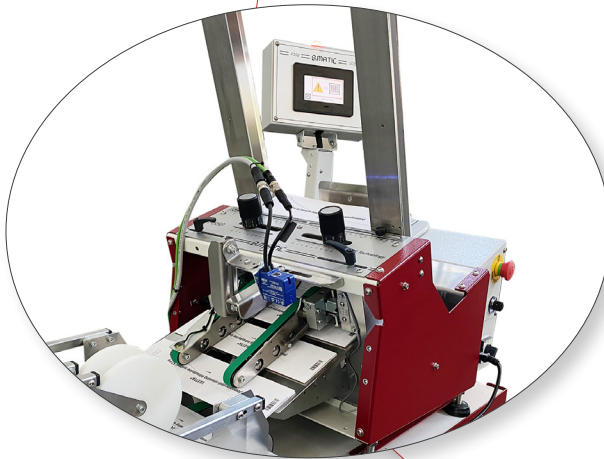


F350 SC Friction Feeder ***With OCS Technology***



Rely on a high-quality industrial Friction Feeder

Feeding - Counting - Scanning - Marking

Packaging - Pharma - Food - Cosmetics

Just a few seconds for setting the products size and 3 minutes to replace the belts

F350, the new Friction Feeder with OCS Technology.

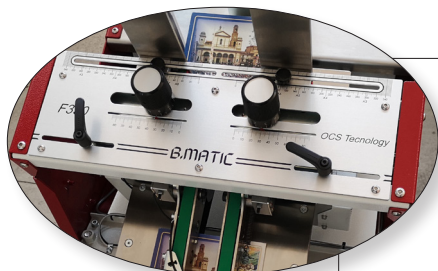
F350 SC is a professional friction feeder/ counter realized for Industrial use and easy to set. Double speed, joint products detection and mechanical parts quality make it a reliable machine for feeding, high speed counting and batching flat products up to 350mm wide.

About OCS Technology

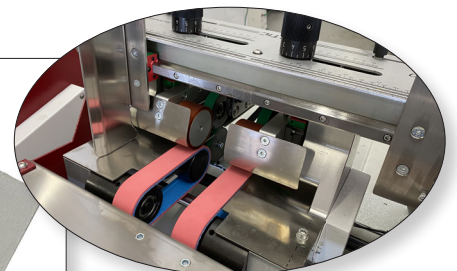
With a long experience since 1986 in counting sheets and security documents, B.Matic has created this original friction feeder equipped with OCS (Opposite Cantilever Shafts) Technology. Here below are summarized the main advantages of OCS:

1. A quick adjustment for products width: loosening one knob is enough to shift the complete singulating assembly, (including all the rollers, belts, etc.) simplifying operations considerably.
2. A solution for the problem of the periodical replacement of the feeding belts, simplifying greatly the task and reducing down-times to 3 minutes

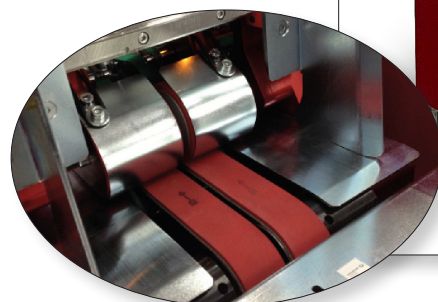
Axial motions are effected on ball recycling guide-ways and all adjustments are guided by graduated scales. Electronic with encoder ensures an accurate feeding / counting without joint sheets. Exit belts move faster than singulating belts to increase the gap between products and ensure optimal separation between products.



Quick setting of product size



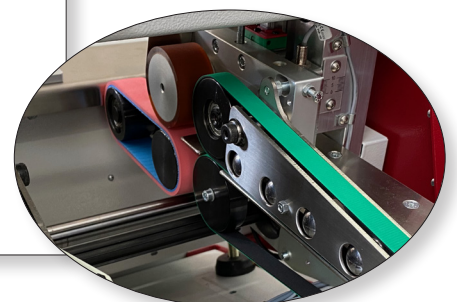
CNC precision mechanics to ensure accurate and continuous operation.



Belt replacement in three minutes



High quality structure, max product width 350mm



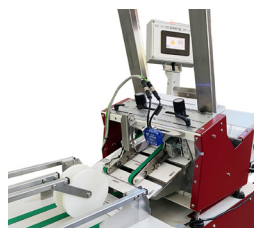
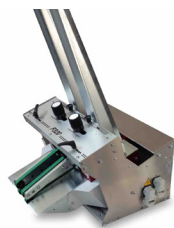
Double speed for perfect product separation

CERTIFICATIONS AND TESTS

OCS has been submitted to intense runs of functional and duration tests such as prescribed by quality procedures according to CE norms. Simulations of heavy duty cycles with a wide range of sheets types **, evidenced low wear levels for the mechanical parts, a perfect stability of the electronic components and of the machine software.

** Tests effected in conformity with the prescriptions of the Operating and Service Manual

F350 Friction Feeder *Machines Range*



General Description

" F350Compact"	" F350Counter SC"	" F350Counter SC Vision"	" F350Counter SC Marker"
Feeding mechanical core without electronic supplied as OEM for installation on packaging lines.	Friction Feeder for counting, complete with electronic control unit and touch screen, to be used stand-alone or on external lines	Friction Feeder for counting with integrated bar code / Data Matrix or OCR scanner, complete di electronic control unit and touch screen.	Friction Feeder for counting with integrated printing head, complete of electronic control unit and double touch screen, one for printing control and one for machine setting.

Functions and Characteristics

F350 model	Compact	Counter SC	Vision SC	Marker SC
• OCS Technology	√			
• Max sheets counting speed (adjustable continuously)	100mt/min or 200mt/min (O)			
• Belt replacement time on one singulating assembly	1' 30"			
• Product width (min. / max.)	35 / 350 mm			
• Product thickness * (min / max)	0,1 to 10 mm			
• Magazine height **	600 mm			
• Manual loading and picking of products without machine stop	√			
• Sheets Length setting to detect the joint sheets with encoder	N/A	√		
• Programming of N° of sheets for batch and of pausing time	N/A	√		
• Display with Total counting - Batch counting - Remainder	N/A	√		
• Count cycle : automatic	N/A	√		
• Connectors for START/STOP and ALARM signals for remote control	N/A	√		
• PLC control unit, frequency driver and motor with encoder	N/A	O		
• Graphic interface with Touch Screen	N/A	LCD 4.7" Color TCP-IP		
• Dimensions (mm) and weight (kg) ***	620x510x H820 / 40kg	620x510x H820 / 60kg		
• Power supply	230VAC 5A 50/60HZ			
• Anti-jamming sensors	O			
• Device with imminent end-of-load sensor for f350	O			
• Autoloader	O			
• Outfeed conveyor	O			
• Outlet collection tray with pedestal.	O			

√ = included O = optional N/A= Not available

* Minimum/maximum thickness accepted may vary with counted products quality and type, please contact us for further information and testing.

** Actual loading capacity function of products type, quality, weight and size.

*** Dimensions and weight of the main counting unit. Actual values may vary.

NOTE: We reserve the right to change some of the above parameters during manufacturing process.

F350 "Counter SC"

In the **F350 COUNTER SC** name, the letter "C" after Counter S stands for "Connectivity" in fact we have installed a larger 4.7-inch color touch screen with Ethernet interface capable of communicating with remote peripherals for machine service or for data communication (O). It is perfect and ready for Industry 4.0. On demand it can manage optical scanners for data or product quality verification and variable data markers. (See Vision and Marker models).

F350 COUNTER SC can be used both as an in-line friction feeder or as a stand-alone counter and batcher. Many accessories are available such as auto-loaders and outfeed conveyors. It is perfect for security printing and commercial printing but also for packaging lines. It can be monitored and programmed remotely from a computer simplifying the operator task especially in case of multiple inline feeders.



USB port and Ethernet port.



Touch Screen F350 Function



Base and Tray for product collection (O)



High quality structure, with PLC and encoder.



Base and conveyor for product separation (O)

Drawing on a long of experience as a Manufacturer of sheet-counting machines in *commercial, security and banknote printing* B.Matic was able to widen its range of products with this friction feeder machine that can accurately count sheets and flat products.

The **F350 COUNTER SC** feeder has a precise mechanical feeding unit (described in the previous pages) that combined with *sophisticated electronics controls* the length of the product to guarantee *feeding accuracy*. Via the touch screen are available many functions:

- Counting in normal or batching mode
- Setting the pause between batches
- Checking the number of sheets / batches counted
- Activating input and output functions, and much more.

A wide range of accessories is available to meet all requirements:

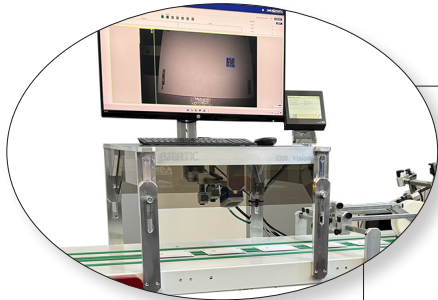
- **The Height-adjustable Conveyor belt** with aligners and rollers for optimal alignment that facilitates product picking.
- **The F350 Collection Tray with pedestal** offers a simple and compact solution for product pick up.
- **The Autoloader Conveyor** to increase the loading capacity.
- **The Device with imminent empty-magazine sensor** enables a seamless workflow.
- **Connectors** for both local and remote (**TCP IP**) external communication and interconnection with packaging lines.

Note: All detailed technical specifications can be requested from our sales department. Software customizations and tests on your samples can be performed upon request.

F350 "Vision SC"

The **F350 VISION SC** is a professional friction feeder / counter with high speed camera for Industrial vision applications.

The **F350 VISION SC** is equipped with superior electronics and a PLC interfaced with industrial sensors for scanning 1D and 2D codes (Data Matrix - QR etc...). On request it can be supplied with sensor and software for OCR applications. With this machine communication via TCP IP proves essential, it can be monitored and programmed remotely from a computer simplifying the operator task especially in case of multiple inline feeders. **F350 VISION SC** can be used both as an in-line friction feeder or as a stand-alone counter and batcher. It is perfect for security printing and packaging lines in the pharmaceutical food sector. Many accessories are available such as auto-loaders and outfeed conveyors.



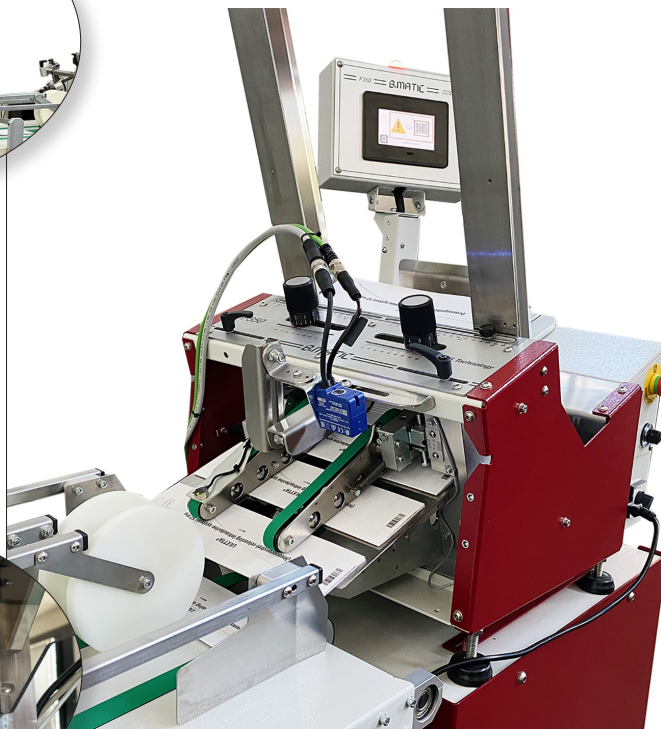
With inspection chamber.. (O)



Touch Screen F350 Function



Industrial sensor OCR (O) i



1D and 2D codes scanning.

Standard function: With the standard model you can check presence of bar codes and memorize them on an SD card.

Standard Vision Applications (more available on request)

With code sensor for 1D 2D codes:

- **Code Storage:** codes reading and storage into the machine memory for downloading via ETHERNET line
- **Code Comparison:** codes reading and comparison with a master code
- **Sequence Check: codes reading** and checking of their sequentiality based on user-set sequence pace
- **White-list/Black-list Check:** codes reading and checking against a white-list or blacklist uploaded by the user.

With OCR sensor

As above, but with OCR sensor for industrial use .

Note: All detailed technical specifications can be requested from our sales department. Software customizations and tests on your samples can be performed upon request.* The sensor provided can be an upgrade an equivalent model

F350 "Marker SC"

F350 COUNTER SC MARKER is a friction feeder/counter F350 with integrated inkjet printing system with HP printing head. It is able to manage up to 4 printing heads controlled by the same trigger and marking the same product. It can print fixed or variable data with a maximum resolution of 600 DPI and a print height of max 12,7 mm with one head to max 50,8 mm with four heads. The printing system uses a 5,7" TOUCH SCREEN CONTROLLER. You can set the controller directly by the touch screen to print a wide range of variable and fixed data including texts (Windows fonts), sequences, logos, linear and 2D bar codes. Easy to understand icons lead you through all phases of building your print job.



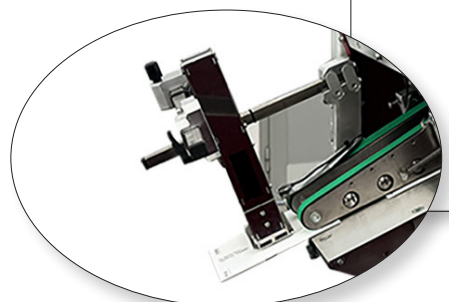
Marker Touch Screen



Functions Touch Screen



F350 "Marker SC" ready to use



Marker printing head



Base and conveyor for products separation

The machine is supplied in standard model with a 12.7 mm (1/2") wide print head*, but on request it is possible to supply up to 4 heads for a printing width of up to 50.8mm.

Technical specifications of the printing system.

- Number of pens: Up to 4 pens*.
- Printing speed: depending on resolution, 35 m/min at 600 dpi.
- Print length: up to 2700 mm.
- 5.7" Touch Screen
- Print encoder (O)

Note: All detailed technical specifications can be requested from our sales office. On request, print heads can be supplied with different characteristics, both simpler and of superior quality and autonomy.

* The print head supplied may be an upgrade or an equivalent model.

Complete Friction Feeder Packaging Lines.

With our F350 friction feeders, we have created many complete packaging lines, including:

1. Feeding and counting line with separation of the products into predefined batches deposited overlapping on our conveyor belt for easy picking.
2. Feeding and counting line with separation of the product into predefined batches stacked on our outlet collection tray for easy picking.
3. Feeding line like points 1 and 2, but with fixed / variable data marking (production batch, date, customer name, bar code/data matrix, etc...).
4. Feeding line like points 1 and 2, but with fixed / variable data scanning system (for example: production batch, date, customer name, bar code / Data Matrix, QR code, etc...)
5. Feeding line like point 3, but with scanning system and export of fixed / variable data.



Example of a complete feeder line with printing of variable data (such as date, customer name, bar code, Data Matrix QR code) and vision system in the inspection room with verification of the printed data. A micro PC on board the line allows easy verification of the scanned images. It includes the conveyor belt and collection tray.

Special lines: We can also supply special packaging lines complete with suction and synchronized conveyor belts, automatic stackers, wrapping machines, banding/strapping machines, from the unpacked product to the packaged product.

Other applications: Installation on lines produced by third parties and integrated with automatic lines.

Examples of Products that can be fed: Pharmaceutical pouches, food - pharmaceutical - cosmetic cartons, trading cards, postcards, scratch cards, flat paper cups, labels, clothing tags, empty and full envelopes.

Demo room for samples testing: In our demo room we can test your samples and send you the filmed demo or show it live via video conference.

Additional B.MATIC Products

"Protec TWIN HEAD ADR 32" models with ADR 32 Technology for security and high security counting					
Model	Type	Sheets / min	GSM	Sector	Picture
Protec ADR 32 TH2 (SH)	L	3.000	40/300	Security	
Protec ADR 32 TH2 (SH)	H	2.500	200/800	Security	
Protec ADR 32 TH2 (SH)	W	3.000	40/800	Security	

"Protec ADR 32 ST" models with ADR 32 Technology for Commercial Printing					
Model	Type.	Sheets / min	GSM	Sector	Picture
Protec ADR 32 ST	L	3000	40/300	Commercial	
Protec ADR 32 ST	H	3000	200/800	Commercial	
Protec ADR 32 ST	W	3000	40/800	Commercial	

"Protec ADR 32 CM" models with ADR 32 Technology for Commercial Printing					
Model	Type.	Sheets / min	GSM	Sector	Picture
Protec ADR 32 CM	1	1.400	40/150	Commercial	
Protec ADR 32 CM	2	2.400	40/250	Commercial	
Protec ADR 32 CM	3	2.400	40/500	Commercial	

"Tab-Inserter" models with DUAL RIBBING Technology					
Model	Type	Tabs / sec	Devices	Sector	Picture
TAB-IN	MDX	3	Tape deflector	Converting	
TAB-IN	Counter	3	Photocell/Pedestal	Commercial printing	
TAB-IN	Push	3	Control Unit	Converting	

Accessories and main spare parts		
Code	Model	Description
F35-F20-000	F350	Stand For F350
F35-F02-002	F350	Motorized Out feed Conveyor For F350
CG-00785-R01	F350	Outlet Collection Tray For F350
F35-F03-002	F350	Autoloader Conveyor For F350
F35-P02-G01	F350	Back-stop chute narrow
F35-P02-G04	F350	Back-stop chute large
F35-E00-G01	F350	Device for anti-jamming
F35-E00-G04	F350	Device with imminent empty-magazine sensor
F35-BRC-027	F350	Complete kit of belts for F350



Dealer area



For detailed specifications, please refer to the dedicated literature, web site and YOUTUBE channel

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