The leader in self bag drop
Why Materna IPS?

Materna IPS, the aviation brand of the Materna Group, has been a leading player in the aviation industry for over three decades as an international service provider for automated passenger handling to airlines, airports and ground handling companies. Our customers include companies like Lufthansa, easyJet, Emirates, Westjet and Eurowings as well as the following airports: Denver, Toronto Pearson, John Wayne, Montreal, Quebec, Victoria, Fort McMurray, Bangalore, Tokyo Haneda, London Gatwick, Oslo, Stockholm, Vienna, Athens, Budapest, Milano Malpensa, Bergamo and Hamburg. With over 150,000 daily bag drops and a leading number of installations, Materna IPS takes No. 1 position in self bag drop.

Our well-proven one-stop-shop portfolio consists of kiosk check-in, baggage drop-off and access solutions. We are a dynamic team with certified project managers and experienced software developers. We accompany our customers from the consulting stage and selecting the appropriate solution right through to delivering service management and on-site support. For a seamless travel experience, we integrate biometric identification as well as payment services into our solutions.

As a longstanding IATA member, we actively drive the market, contribute to the creation of new standards and are present at all the relevant hotspots for the industry.

A great way for your passengers to start a trip.
Oustanding self bag drop solutions

As airports and airlines have to meet the challenges of increasing passenger numbers, stricter security and cost regulations, they have to concentrate on improving passenger handling processes. Their common objective is to speed up check-in and baggage drop-off to reduce waiting times at those touch points. Materna IPS offers self-service solutions for optimized passenger convenience and has been delivering automated baggage drop-off systems based on modern technology for about 15 years.

Depending on the specific solution and whether a one- or two-step process is offered, process times for self-service bag drop have been reduced to just a few seconds.

Where passengers had to stand in line in the past, they can now use simple and intuitive systems to just scan their bag tags and drop off their luggage.

Multiple options - one unique user experience

With our quick and easy-to-use self bag drop solutions, we deliver modular and customizable systems to airlines, airports and ground handlers. As a pioneer in self-service solutions we continuously improve our products which provide both one-step and two-step processes for self-service bag drop. You can choose your individual greenfield or retrofit solution for a perfect fit.

All Materna IPS bag drop solutions are compliant to the appropriate IATA Standards as IATA RP 1706c (CUSS) and IATA RP 1701c (Self Bag Drop, Check-in) and support multiple airline Departure Control Systems (DCS).

- Quick and easy to use
- Short queuing times
- Process time reduction down to 10 seconds
- A single floor walker can handle multiple bag drop units
- Intuitive applications
- Integration into existing infrastructure
- Biometric data identification
- Payment integration
Our self bag drop systems are based on the international Common Use Self-Service (CUSS) standard. This allows airlines to deploy their own applications on self bag drop equipment around the world without having to redevelop or adapt them each time. First, the passenger selects the airline on the screen and scans his boarding pass. The baggage is then placed in the marked area on the conveyor, where it is automatically measured and weighed. After that the kiosk prints the baggage tag with the barcode to be affixed to the baggage. This just needs to be confirmed on the screen, and the baggage receipt is issued. Baggage cannot be transported onward on the conveyor belt until it is correctly labelled. Scanners identify errors or misuse of the kiosk immediately. Materna systems for self bag drop provide either standstill scanning or scanning on the move depending on the model. If required, we can add features such as baggage classification.

Common Use Self-Service

To give airports a better overview of traffic numbers, maintenance requirements, failures, downtime and peak loads, we have developed a tool that can monitor and analyze the performance of their applications down to single transaction level and show them in an intuitive dashboard-based control centre. Alternatively, you can completely outsource all those tasks to Materna, who can help you manage and administer data, monitor and analyze the performance of applications and transactions, and take care of on-site customer liaison and support. More precisely, its cloud-based data centre can host and monitor your applications 24/7 and enables Materna’s service team to take care of all your equipment out in the field.

We have also added a new floorwalker and service agent app to our portfolio, which offers a service for notifications, control and communication. Agents always have an overview of all kiosks and stations. Through Android or iOS smartphones or tablets, agents receive direct notifications when there are calls for help and for simple kiosk administration tasks.

System monitoring
Airlines and airports have to offer the best service and comfort to their passengers, but at the same time, have to save costs to stay competitive. As terminal space is limited, airports have to find options for smooth and quick passenger handling. With self-service solutions, they can speed-up certain processes such as check-in and baggage drop-off. Whenever airports refurbish or build new departure terminals, they can choose from our kiosk solutions to suit their individual needs.

Our Pax.Go solutions are a series of kiosk versions to meet individual airport requirements.

Pax.Go kiosks are solid and robust systems to handle both check-in or self bag drop. The kiosks have an elegant design and fulfill the highest technology standards. Pax.Go is available with a completely customizable range of color schemes.

With optimized, integrated printing, scanning and reading modules, the kiosk is an industry grade solution for continuous operation. Several options allow tailor-made configurations for individual customer requirements.
Choose your solution

All Materna Pax.Go kiosks provide capability for both check-in and self bag drop and have been developed for international markets.

The new Pax.Go C solution is unique in that its modular structure supports expanded capabilities and additional devices can easily be added as requirements or business processes evolve. For many airports this will mean the future integration of devices supporting biometric identification. The kiosk’s screen size is individually selectable from 19 to 32 inches. With a flexibly adjustable screen and other features for people with disabilities, this system fully complies with the Americans with Disabilities Act (ADA) that anti-discrimination measures and barrier-free public facilities have been based on for over 25 years.

Flexible automatic scanning options

All Pax.Go solutions can be integrated with automatic scanning modules. Customers choose the individual solution which fits best into their airport environment.
Greenfield solutions

One of the common goals of airlines and airports is to provide their passengers with a pleasant experience and smoothly running services before their departure. Today, however, the increasing number of passengers and stricter security requirements pose major challenges. In addition, airports must remain competitive and rely on efficient passenger handling. In order to ensure this in existing terminal environments, our self-service solutions help airports and airlines to automate their processes. Automatic baggage drop-off is playing an increasingly important role here.

Since every airport is different and has individual requirements and needs, we have developed a flexible system that offers numerous options to simplify the bag drop process thanks to its modular approach. Our Flex.Go system has an elegant design and offers quick and easy self-service, resulting in a more efficient and streamlined process with no queues at the terminal. With Flex.Go we help to increase capacity and throughput significantly.

The modularity of our concept allows multiple options to integrate the systems into existing infrastructure and to offer technologies such as biometrics, RFID and payment.
**Flex.Go – the modular concept**

**Various unit options**

Flex.Go offers single or double units as sideloaders or frontloaders either as stand-alone or integrated systems. This provides for maximum flexibility to meet the requirements of our customers. The conveyor belts as well as the cladding can be inserted into the Flex.Go easily. We can deliver nearly every size of conveyor with flexible belt-widths and lengths (standard: 600 mm usable belt-width).

The modular concept of Flex.Go allows it to be operated as a self-service unit as well as for staffed counter operations. For such cases, we provide a hybrid solution which includes agent desks. This solution enables airlines to react flexibly to peak times or special requirements.

- Single lane (left/right)
- Double sideloader
- Double frontloader
- Integrated double frontloader
- Hybrid version for optional agent mode

**Customizable device options**

**Flexible monitor size:** The Flex.Go comes with a 15” touchscreen as standard. With minimal changes it can be fitted with a 19” touchscreen.

**Up to three printers:** The Flex.Go includes a separate drawer with a separate lock for easy service-access. Being able to fit up to three printers allows the self bag drop to be used for both 1-step and 2-step processing.

**Advanced technology for conveyability checks:**
As a next generation SBD, the Flex.Go provides an integrated camera system for carrying out automatic conveyability checks and tub detection. With a high level of accuracy, the shape and dimensions of the bag are measured and used for a volume check and classification. The same camera solution can help to prevent inadmissible objects from entering the airport’s BHS.

**Customizable input devices – from document scanner and payment to biometrics**

- Passport-/boarding pass scanner
- Top view boarding pass scanner
- ADA-Navigation Pad
- Payment functions (card reader, pin-pad, NFC)
- Separate lock for the printer drawer
- Biometrics face integration
Flex.Go – designed to meet your needs.

Optimal space for passenger handling

Due to its very compact dimensions, Flex.Go occupies only a very small footprint and fits perfectly into the terminal environment. Passengers benefit from the generous space and privacy it provides while they carry out the drop-off process.

Individual design

Materials and colors are customizable according to customer requirements:

- powder coated
- steel (standard)
- stainless steel
- colored glass
- wood look

Flex.Go – Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Included</th>
<th>Optional</th>
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</thead>
<tbody>
<tr>
<td>19” TFT Touchscreen</td>
<td>✓</td>
<td></td>
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<tr>
<td>RFID bag tag scanner</td>
<td></td>
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<tr>
<td>RFID bag tag printer</td>
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<tr>
<td>Linerless bag tag printer</td>
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<tr>
<td>ADA navigation pad</td>
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<tr>
<td>Intrusion detection</td>
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<tr>
<td>Payment</td>
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<tr>
<td>Baggage volume check and classification</td>
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<tr>
<td>Biometrics face recognition</td>
<td></td>
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<tr>
<td>Customized material design</td>
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<tr>
<td>1-step bag drop process</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>2-step bag drop process</td>
<td></td>
<td>✓</td>
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<tr>
<td>IATA CUSS compliant</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>15” TFT Touchscreen</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Boarding pass scanner</td>
<td></td>
<td>✓</td>
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<tr>
<td>Bag tag printer</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Signaling (LED stripes)</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Boarding pass printer</td>
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</table>
More and more passengers are checking in before they even arrive at the airport. Following the two-step approach, Tag.Go B is designed to make the bag drop process even easier and faster for these passengers. Passengers simply scan their boarding pass and print out their bag tag. The hardware solution (scanners and printers) can be customized to suit the airport’s needs. It offers storage space for bag tag rolls and a waste bin. Its small footprint also means Tag.Go B is easy to integrate into any airport environment.

Bag tag application

Quick and easy to use – we deliver a bag tag application that runs on our Tag.Go B solution. Depending on the airport’s needs the application can be supplied for different Materna hardware as well as for third-party systems.
Retrofit solutions
Drop.Go series

Drop.Go A
Swedavia Stockholm-Arlanda, Sweden

Drop.Go B
Vienna International Airport, Austria

Drop.Go C
Toronto Pearson Airport, Canada

The Drop.Go series provides freestanding self-service bag drop systems for quick and easy one- or two-step processes with optional printing. The solutions can be simply mounted and integrated in existing check-in counters without any changes to hardware installations. For a typical retrofit solution, passengers have already printed out their bag tag at a check-in kiosk or the Materna Tag.Go when they use the drop-off unit. With these self bag drop versions, passengers just make a few clicks on the intuitive menu, scan their bag tags and the luggage is ready to go. Installation upgrading protects your infrastructure investments and helps your airport develop and adapt to traffic and passenger requirements.
### Retrofit solutions

**Drop.Go series**

<table>
<thead>
<tr>
<th>Features</th>
<th>Drop.Go A</th>
<th>Drop.Go B</th>
<th>Drop.Go C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full page scanner</td>
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</tr>
<tr>
<td>Handheld scanner</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Bag tag printer</td>
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<tr>
<td>Boarding pass printer</td>
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<tr>
<td>Receipt printer</td>
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<tr>
<td>Payment</td>
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<td>O</td>
</tr>
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<tr>
<td>2-step</td>
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<tr>
<td>Hybrid</td>
<td>✓</td>
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- = Included  
- = Not included  
O = Optional
**Facts**

- **> 150,000**
  OUR BAG DROPS WORLDWIDE PER DAY

- **> 300,000**
  CHECK-INS PER DAY

- **> 80**
  AIRPORTS

- **> 800**
  INSTALLATIONS

- **19.1 secs**
  CHECK-IN WORLD RECORD

- **Every 0.58 secs**
  A PASSENGER DROPS A BAG USING MATERNA

- **340 hours/day**
  AMAZING WAITING-TIME SAVINGS

- **3 x less space**
  MASSIVE AMOUNT OF AIRPORT SPACE SAVED

- **50 %**
  INTEGRATION OF THE WORLD’S TOP 20 AIRLINES

- **> 300,000**
  CHECK-INS PER DAY

- **3 x less space**
  MASSIVE AMOUNT OF AIRPORT SPACE SAVED

- **> 80**
  AIRPORTS
Already simplified!

Bengaluru  Spirit Airlines  Vienna

Lufthansa  Toronto  Hamburg

Swedavia  Gatwick  Toronto