a new weigh of doing things!

ATRAX

AIRPORT WEIGHING TECHNOLOGY

ABS 950 Baggage Scale

Check out the ABS 950 advantages:

- Produced by the world's leading specialised manufacturer
- Thousands of units installed in over 40 countries
- Specialised weighing technology for airport applications
- Finest quality design and engineering
- The latest highly advanced technology
- Handsome European styling and ergonomical design
- Robust, durable ABS construction
- Stainless steel fascia with scratch resistant acrylic lens
- Soft touch silicone keys for sensitive tactile feedback
- Permanent etched lettering that won't rub off
- Excellent readability from a wide viewing angle and under variable lighting conditions
- Intersystem text messaging capability
- Scales are self diagnostic and report any errors in plain language
- Identifies problems and reports to operators/control room
- Rapid identification means faster repairs. Less downtime
- One centralised single Operator panel results in very compact unit
- Can be mounted anywhere, saving desk space
- Easy to install "plug and play"
- An extremely accurate and efficient weighing system
- Future proof – tomorrows technology today
- Designed to fully integrate with Baggage Handling System.
- Plus many more baggage handling capabilities

Not just a scale ... the most advanced baggage handling technology ...
A new weigh of doing things
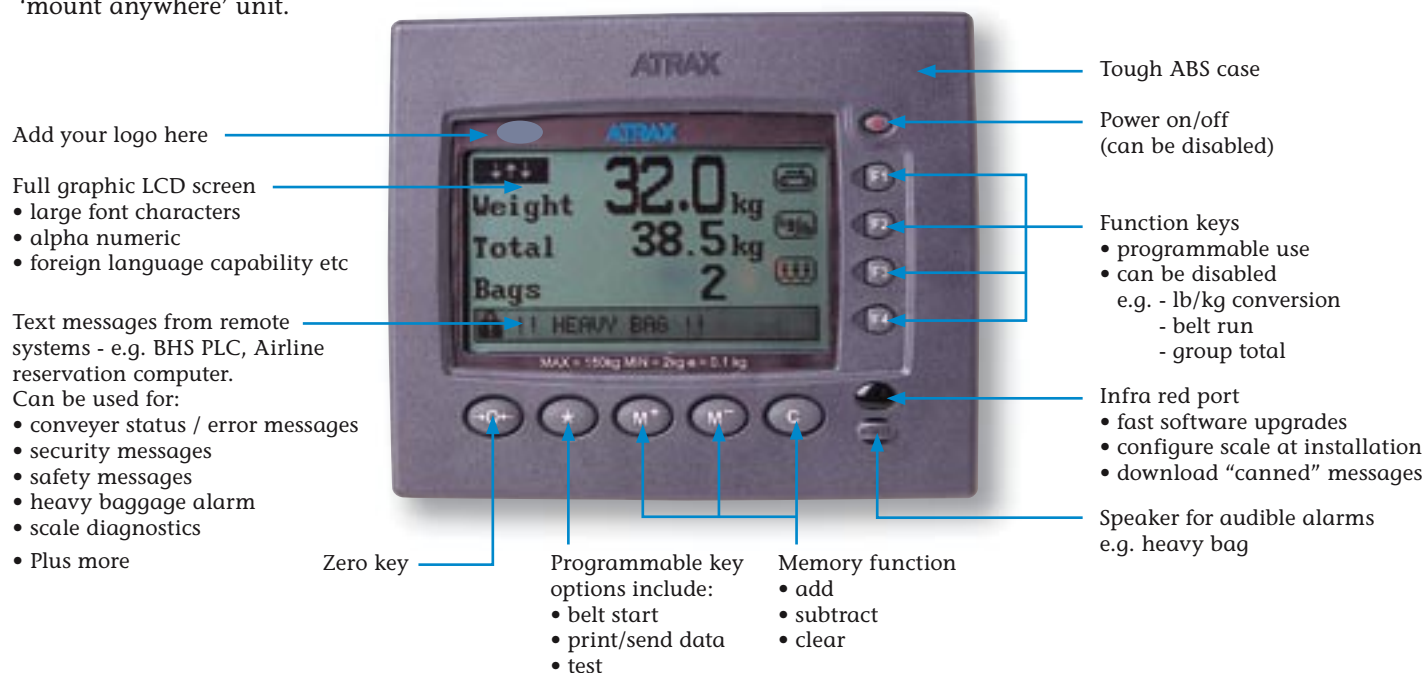
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ABS 950 Baggage Scale
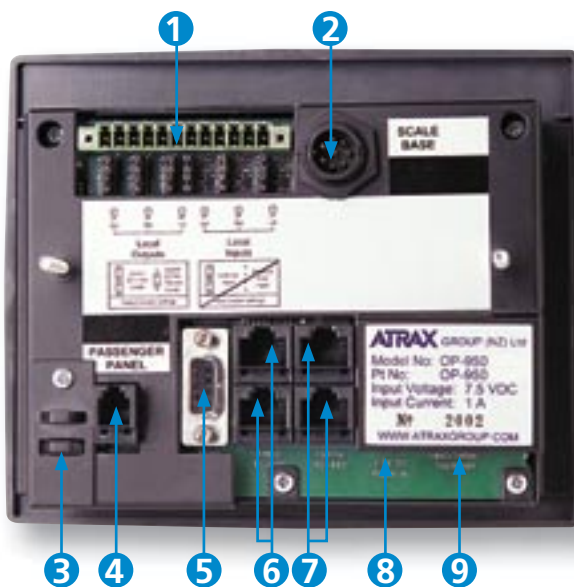
Fast... accurate... efficient... affordable

User friendly

The ABS 950 has been specifically designed to be easy to read, easy to operate, with everything in one compact, ergonomic, 'mount anywhere' unit.

Add your logo here

Full graphic LCD screen
• large font characters
• alpha numeric
• foreign language capability etc

Text messages from remote systems - e.g. BHS PLC, Airline reservation computer.
Can be used for:
• conveyer status / error messages
• security messages
• safety messages
• heavy baggage alarm
• scale diagnostics
• Plus more

Tough ABS case

Power on/off
(can be disabled)

Function keys
• programmable use
• can be disabled
  e.g. - lb/kg conversion
       - belt run
       - group total

Infra red port
• fast software upgrades
• configure scale at installation
• download "canned" messages

Speaker for audible alarms
e.g. heavy bag

Zero key

Programmable key options include:
• belt start
• print/send data
• test

Memory function
• add
• subtract
• clear

Technically friendly

The ABS 950 has also been specifically designed to be easily installed and integrated into existing systems with no complex re-wiring or technical incompatability. Connections and ports are clearly identified and easy to follow.
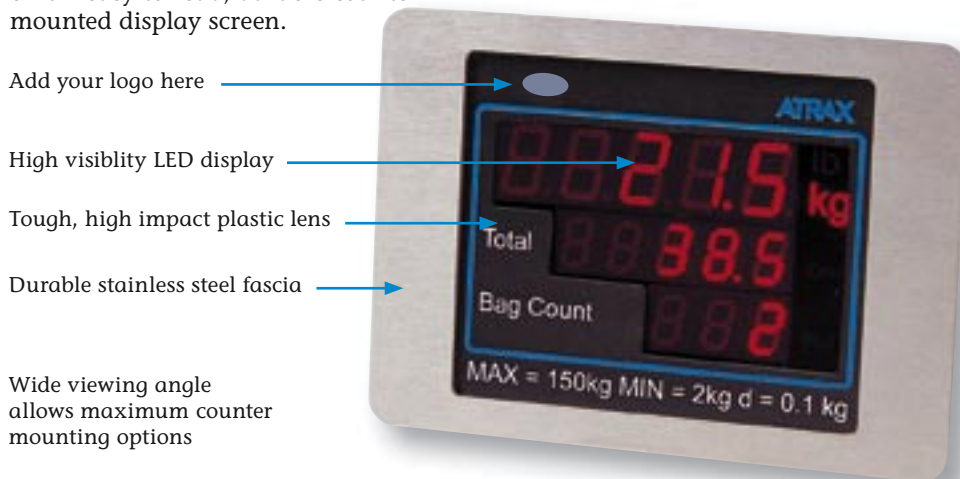
Connections and Ports

1 Local I/O Port
2 Scale Base Connector
3 Tamper Proof Setup Switches
4 Passenger Display connector
5 RS-232C Serial Port
6 RS-485 Serial Port
7 RS-485 Serial Port
8 7.5 VDC Power Input
9 I/O Expansion Port

Passenger friendly

Information for passengers is displayed on an easy to read, durable counter mounted display screen.

Add your logo here

High visiblity LED display

Tough, high impact plastic lens

Durable stainless steel fascia

Wide viewing angle allows maximum counter mounting options

Auto ranging power supply

Universal power adaptor
Conforms with all relevant safety & electrical regulations

The Atrax ABS950 Baggage Scale

is a special-purpose scale with extended communications and Input/Output capabilities designed specifically as a universal platform for use in performing baggage check-in functions for the airline industry.

This unit sets the standard in what should be expected from a baggage scale and can truly be used in a "Fully Integrated" Check-in system.

Graphics Display

The use of a full graphics LCD Operator panel allows for a number of innovations. Firstly the display to the operator is clear and concise, and can be displayed in the language of choice for the installation. Full control by the operator of contrast and backlight further enhances its performance. Combined with this use for the weight data, combining this screen with the enhanced communication technology allows the Operator panel to become part of the conveyor PLC system. Any system messages can be relayed back to the screen for instant display to the operator. These messages could also come direct from the control room, to give the operator urgent situation updates.
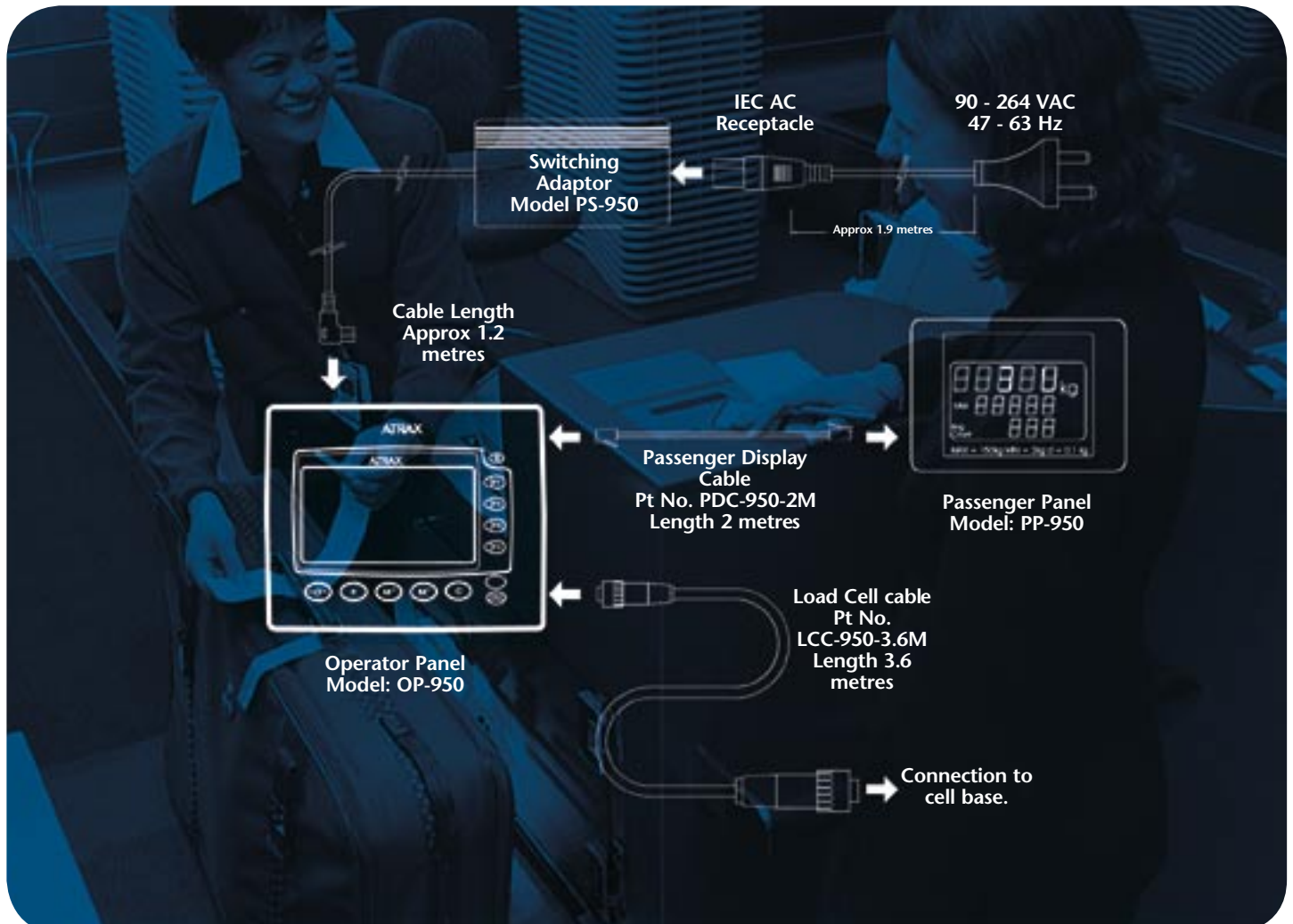
Communications

For any scale to be part of an integrated solution, communications are of paramount importance.
The ABS950 has been fitted with the widest possible range of ports required. These consist of an RS232 for connecting to a local PC, RS485 for use with a multi-drop network connection, and an additional RS485, which can be a direct connection to the control room or a master PC. With this unit connected to the same network as the conveyor PLC, the unit becomes a truly integrated system with transfer of weight data in one direction, and reporting of PLC/conveyer in return.

I/O Capability

A further significant enhancement of the system is its extended I/O capacity. With the industry move to incorporate the Check-in conveyor controls in the same panel as the Weighscale, the next requirement is to channel all operator conveyor control functions and data reporting through one channel. The ABS950 has the expansion capability of up to 32 I/O channels. Therefore all of the conveyor controls can be wired through the scale unit. These in turn can then be controlled via the network connection, heavily reducing the requirement for field wiring.

IEC AC Receptacle

90 - 264 VAC
47 - 63 Hz

Switching Adaptor Model PS-950

Approx 1.9 metres

Cable Length Approx 1.2 metres

Passenger Display Cable
Pt No. PDC-950-2M
Length 2 metres

Passenger Panel Model: PP-950

Load Cell cable
Pt No.
LCC-950-3.6M
Length 3.6 metres

Operator Panel Model: OP-950

Connection to cell base.

OPERATOR PANEL

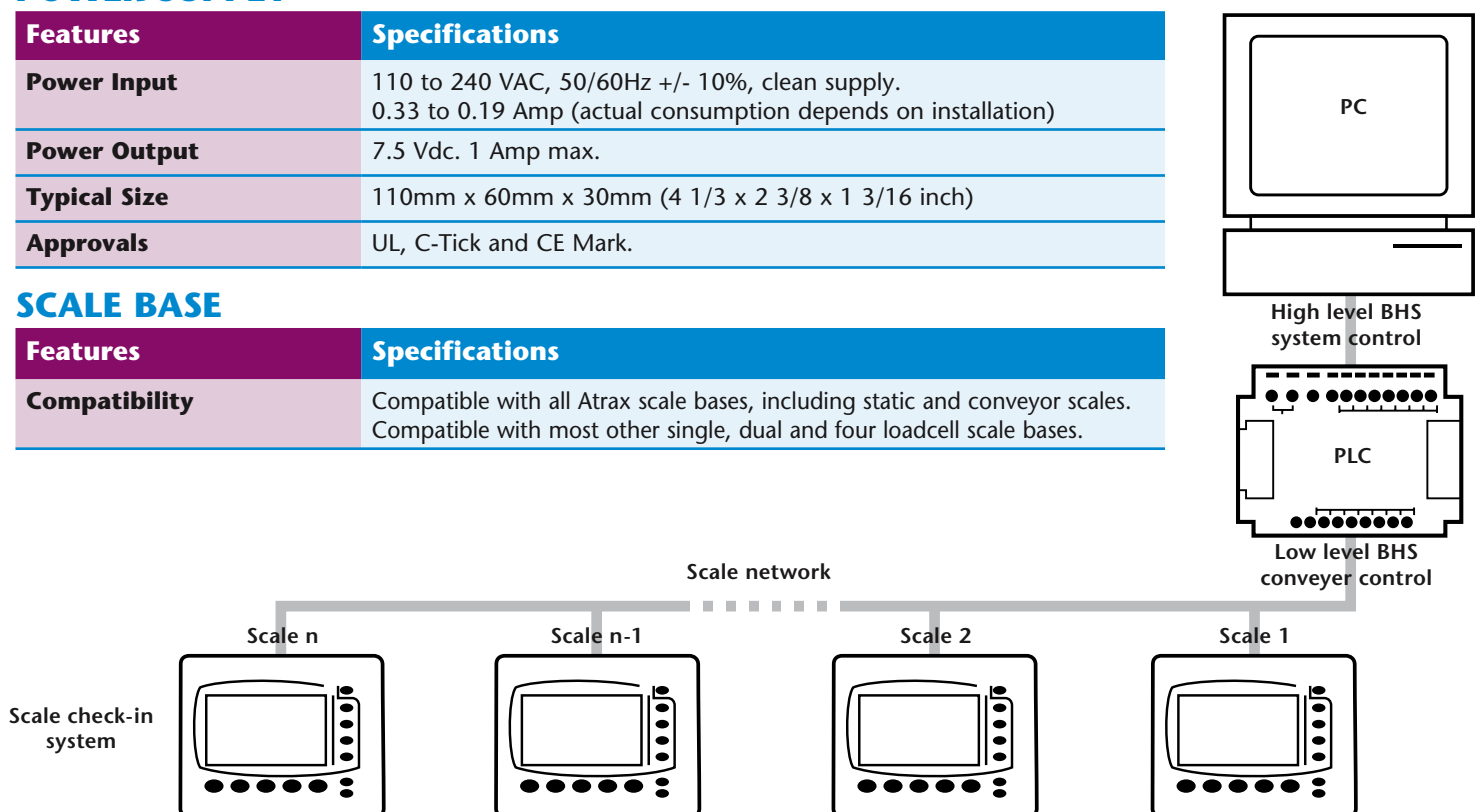| Features	Specifications
Display	Full Graphics, high contrast, backlit LCD. Simultaneously displays: Passenger bag weight, Total bag weight and Bag count. Conveyor system text messaging enabled.
Front Panel Annunciators	Centre of zero, motion, lb/kg selection, overweight alarms and customised legends. Text messages from BHS control system.
Operator Push-buttons	5 primary keys for: zero, add, minus and clear totals plus one configurable key. 4 programmable function keys with display labelling. 1 power on/off key. All keys are moulded soft touch silicone with tactile feedback.
Control Outputs	3 fully isolated digital outputs as standard. Overweight setpoint, Belt start & spare. DC only at 1.5 amps max. AC/DC at 0.75 amps max. 24 volts max.
Control Inputs	3 fully isolated digital inputs as standard. Remote on/off. Add function inter-lock & spare. DC input only. 24 VDC max.
Serial Data Ports	2 optically isolated multi-drop RS485 network ports. 1x RS485 passenger display port. 1 x RS 232 port. 1 x Infra-red front panel data port. I/O Expansion interface for future use. Maximum of 3 ports in use simultaneously.
Full Scale Capacity	Adjustable up to 999.9kg and/or lb.
Display Increments	Selectable to 0.1, 0.2, 0.5 and 1.0.
Auto Zero Maintenance	+/- 0.5 graduation zero tracking.
Alarms	Built in audible and visual alarms with setpoint output. Programmable heavy bag warning and overweight bag alarms.
Power Input	7.5VDC, supplied by external unit. Internal self resetting thermal fuse protected.
Enclosure	Tough ABS moulded fascia. Mild steel rear cover. Scratch resistant display lens. Overall size: 160mm x 130mm (6 5/16 x 5 1/8 inch)
Operating Temperature	-10°C to +40°C (14°F to 104°F)

PASSENGER PANEL

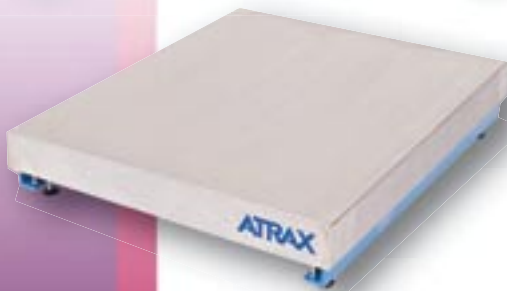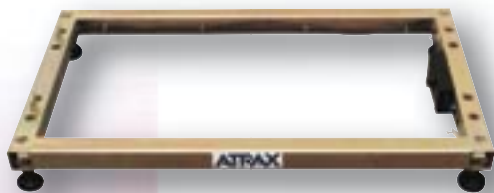| Features	Specifications
Display	High intensity 7 segment LED. 3 rows consisting of 5, 5 & 3 digits respectively. Simultaneously displays passenger bag weight, total bag weight and bag count.
Enclosure	Brushed stainless fascia. Scratch resistant display lens. Mild steel rear cover. Mounting options to suit airport requirements. Overall size: 122mm x 86mm (4 4/5 x 3 3/8 inch)
Operating Temperature	-10°C to +40°C (14°F to 104°F)

POWER SUPPLY

Features	Specifications
Power Input	110 to 240 VAC, 50/60Hz +/- 10%, clean supply. 0.33 to 0.19 Amp (actual consumption depends on installation)
Power Output	7.5 Vdc. 1 Amp max.
Typical Size	110mm x 60mm x 30mm (4 1/3 x 2 3/8 x 1 3/16 inch)
Approvals	UL, C-Tick and CE Mark.

SCALE BASE

Features	Specifications
Compatibility	Compatible with all Atrax scale bases, including static and conveyor scales. Compatible with most other single, dual and four loadcell scale bases.

PC

High level BHS
system control

PLC

Low level BHS
conveyer control

Scale network

Scale n   Scale n-1   Scale 2   Scale 1

Scale check-in
system

Tomorrow's technology today

The ABS 950 is not just a scale … it's a new weigh of doing things – a brilliant piece of technology that will revolutionise airport baggage handling around the globe. Now airports can have the best of both worlds … a beautifully designed and built weighing system that also has the ability to integrate into the entire baggage handling process.

Brilliantly compatible

Right from the early design and development stages of the ABS 950, one of the main criteria was perfecting easy installation and integration into existing static and conveyor scale systems. The result has been both brilliantly successful and brilliantly simple … the ABS 950 can multi-task to full capacity immediately, or can be used as a scale only until the many additional functions are required and accessed at a later date.

Instant information

On the screen. Easy to read and at your fingertips. All the information you need with pinpoint accuracy. But it's not just the standard weight details … the ABS 950 has the amazing ability to analyse, diagnose, detect and inform, from telling you when you are ready for calibration, to instantly displaying any malfunctions in the conveyor control process. By letting the operators and the control room know the exact location of a problem, personnel or servicing can be directed to the trouble spot immediately, resulting in faster repairs and less downtime.

Easy to read, multi lingual

It's all there. At a glance. Large, easy to read text and figures. Excellent contrast and legibility from a wide viewing angle. Back-light illumination ensures the screen is clearly readable at all times, even in direct sunlight or the glaze of surrounding airport lighting. And the ABS 950 can 'speak' several languages and characters. There's even the facility to include check in details on a special screen to help keep your passengers informed.

Hard wearing, soft to touch

The handsome European design and stainless steel fascia combines modern sophisticated styling and ergonomics with rugged, robust, durable construction. The lens is strong, scratch resistant acrylic. The keys are soft-touch silicone … easy on the fingertips and long fingernails and excellent for sensitive tactile feedback. Lettering is permanently marked into every key so it will never wear off. Everything is at your fingertips on one centralised, compact, single-panel unit that can be mounted anywhere, saving valuable desk space.

We are the world's leader in specialised, quality weighing technology for airports. We have installed thousands of products in over 40 countries and have a worldwide network of Atrax installation, sales and service personnel to provide local, 'on-the-spot' expertise.

We know the business. We also know when we've produced something very special! The ABS 950 is one of the most exciting and innovative Atrax developments to date. It's a huge technological step. Yet it's easy to take.

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Due to our continuing development programme, this information and specification may change without notice. Rev 05/02