











We are the leading
**Industrial Automation
& Robotics solution
provider** in the Middle
East.



Index

03	PROFILE	
04	EBS-6900 Series	
05	EBS-6500 Series	
06	EBS-6800 P	
07	HANDJET EBS-250	
08	HANDJET EBS-260	
09	PicAS II EBS-1600	
10	EBS-2600	
11	Savema 53-70 I	
12	Savema 107-75 I	
13	Feeder Machines SVM 100-B	
14	Traverse Printers	
15	Thermo Scientific Sentinel 5000	
16	Thermo Scientific Checkweigher	
17	Thermo Scientific NextGuard	
18	Thermo Scientific Xpert	
19	e-SolarMark	
20	Packaging Machines	
21	Powder Packaging Machine	
22	FAR - E	
23	Vacuum Packaging Technology	
27	Filma Stretch Wrapping M/Sealing Machine & Strapping Machine	
28	La Mille	
29	iPack HIP	
30	Industrial Automation & Robotics	

Astropack Gulf LLC has been established in the Middle East Region with a mission to provide unmatched support to processing and packaging industries. All engineers are qualified & trained having extensive experience in installation and support of Packing, Coding and Inspection equipment the Middle East.

Sharing the responsibility of our principals, we are honored to be your partner and to fulfil your requirement from inception of ideas to implementation of projects. Our expertise are not limited to:

- Packaging Machines
 - iPac Vertical Form Fill Seal Machines
 - IPS Flow Wrapping Systems
- Coding systems
 - EBS Inkjet Printers
 - Savema Thermal Transfer Printers
 - Solaris Laser Coding Machines
 - HP industrial Carton coding printers
- Inspections Systems
 - Thermo Scientific Metal Detection Systems
 - Thermo Scientific X-Ray Inspection
 - Thermo Scientific Check-weighing machines

Feel free to contact us for any packaging query and for budgetary or formal quotes.

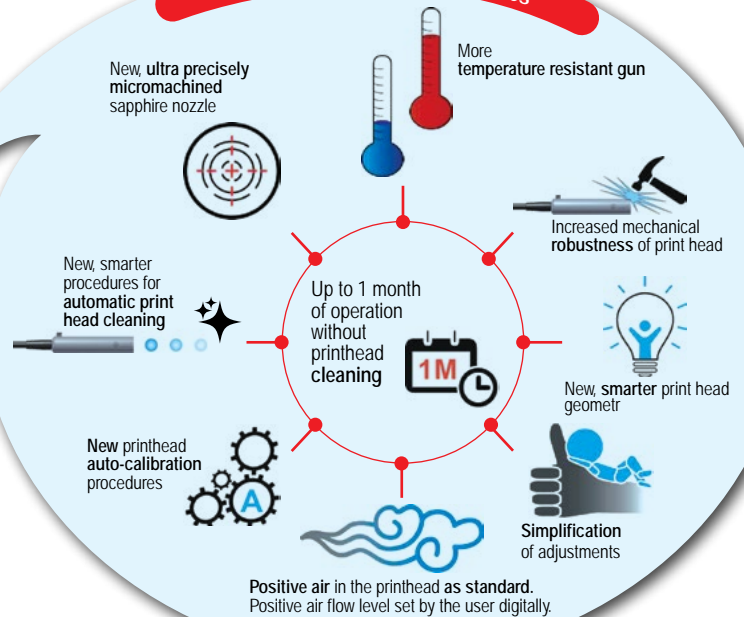
EBS-6900 Series

Continuous Ink-Jet Printer

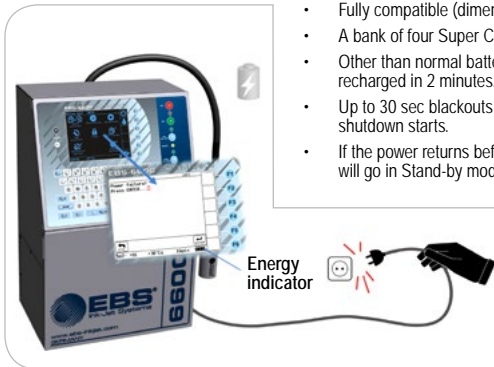
**GOODBYE
TO NOZZLE BLOCKAGE**



Summary of Printhead Features



UPS Power Supply

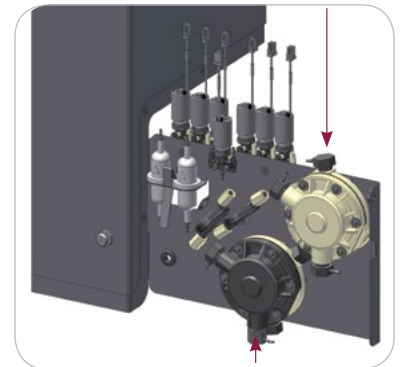


- Innovative integrated UPS power supply.
- Fully compatible (dimensions and connectors) to the standard power supply.
- A bank of four Super Caps [SC] provides power for a full shutdown procedure.
- Other than normal battery packs, the SC can be discharged unlimited times and are recharged in 2 minutes.
- Up to 30 sec blackouts are ignored and the printer stays in printing mode, before the shutdown starts.
- If the power returns before solvent was supplied to the print head, the printer automatically will go in Stand-by mode and production can be continued immediately.

Energy indicator

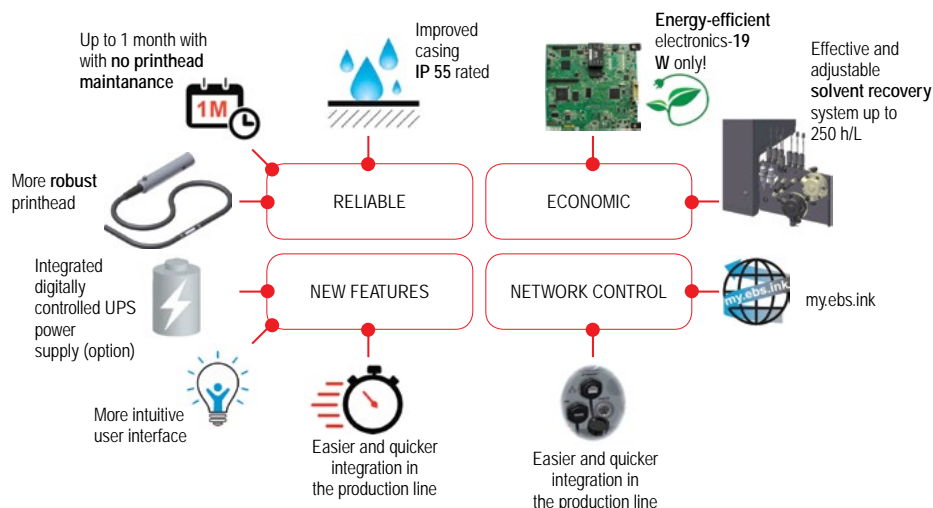
Ink System

Additional solvent reservoir ensures **clean printer shutdown**, even if the solvent bottle is completely empty.



New solvent pump construction with a second connector in the control chamber for better cleaning and rinsing.

Features Boltmark® II





Technical Parameters

16 dots - 2 lines Version „MINI“	•	Umbilical cord	•
25 dots - 3 lines Version „MIDI“	•	Printhead position	jede / any
High Contrast LCD with touchscreen	•	Print speed (up to)	441 Meter / Minute @ Matrix 5x5, 2083 char. / sec.
Graphics / barcodes	•	Font matrix (depending on printer version)	5x5, 7x4, 7x5, 9x5, 9x7, 11x7, 12x6, 12x7, 14x9, 16x9, 16x10, 16x14, 21x15, 25x15
Available barcodes	1D (2D opt.)	Keyboard layout Arabic or Cyrillic	•
International fonts (choose from): Cyrillic, Arabic, Japanese, Chinese, Korean and others		Message memory	100
RS232 & USB interface	•	Electricity consumption	dynamisch < 30W
Positive air in print-head (anti-polluting)	•	Installation: hanging or standing	
Special channel for external data	•	Weight (w/o fluids)	12,5 kg
Dye-based ink	•		
different types	•		
pigmented ink	•		
„clean hands“ bottle design	•		
iModule® change without tools	•		
USB library manager	•		



IP54 protection class -
V2A stainless steel



High contrast LCD
with touchscreen



Technical Parameters

EBS-6800P is the name of our printer designed for pigmented inks. The printer is an industrial single-head inkjet printer designed for non-contact coding of moving objects on a factory conveyor belt with up to 500m/min (@ 5x5 matrix).

High contrast

The special field of our EBS-6800 is the processing of pigmented inks. These have the advantage that they are extremely rich in contrast and are very good visible on a wide variety of surfaces.

Degree of protection IP44 as standard

IP44 or IP54 – Protection of the housing against the ingress of water and coarse dust allows to ensure the reliability of the printer for a long time. The printer's keyboard and screen and all ports are protected against chemicals and water spray. (IP 54 optional available)

Physical facts

Housing stainless steel

Housing dimensions

- Width 300mm
- Height 470mm
- Depth 211mm

Printhead dimensions straight diameter

- Ø 40mm; length 198mm
- Angular diameter Ø 40mm; length 127mm; height 130mm

LCD dimensions 5,7"/144,8mm

Weight about 13,8kg without fluids

IP protection class, printer casing(excluding the printhead)

- IP44 (standard)
- IP54 (option)

Specifications

Print height from 1,2 to 14mm

Maximum dots 16 (optional 25 or 32)

Number of texts

- About 1000 (standard)
- About 2000 (option)

Graphics

- Edited with graphics editor
- Maximum height is determined by selected text profile

Types of subtexts

- CHARACTER STRINGS
- GRAPHICS
- BAR CODE
- TEXT NAME

Subtexts whose contents are:

- static,
- dynamic (so called special registers: counters, date, expiration date, time, shift identifier, external data, variable field, text contents).

Bar codes

- 1-dimensional (1D) codes: Datalogic, Matrix, 2/5 5 Bars, 2/5 IATA, Interleaved, Code 39, EAN-8, EAN-13, EAN-13 +EAN5, UPC-A, UPC-A EBS, UPC-E, CODE 128, EAN-128, CODE 128B, ITF8, ITF14.
- 2-dimensional (2D) code: Data Matrix ECC-200(an option).



Technical Parameters

Number of nozzles	16
Nozzle diameter	150 µm
Print height	11 mm, 20 mm and 27 mm
Height of objects to be printed	from 35 mm
Working position in 3D space	any
Line printing	enables printing of up to 10 texts in successive lines
max. number of characters per text	1500 (including control characters for the printer's built-in fonts)
Number of texts and the accompanying print param.	from 1 to 10 (Texts are loaded into printer via PC)
Printing of graphics (logo, special graphic characters)	editing and printing of graphical texts and symbols with the use of Windows®-Fonts (True Type) as standard
Special characters	national (diacritical) characters, graphic characters for information, warnings, etc.
Variable fields	date and time in any format, expiry date, up- and down counters, universal counter (pieces, pallets, metres, etc.)
Programming	<ul style="list-style-type: none"> - wireless (radio) with range of up to 50 m - Text- and parameter processing Software, Windows® 98SE/ME/NT/2000/XP - Network of up to 20 printers, radiocontrolled via PC

Timing	either synchronised with rotational speed of the lower stabiliser or at intervals by an internal generator
Power supply	Battery powered by 3 Li-Ion cells
Approximate operating time with the battery fully charged	50 hours - of non-stop printing at a temperature of 20°C, automatic low-battery indication.
Recharging	automatically via an external 24V/1A DC power pack. Charging time, less than 150 minutes
Ink	available in easily removable cartridges ethanol-, acetone- or water based, in various colours
Cartridge capacity	110 ml for printing about 100.000 characters with 7x5 dot matrix or about 17.000 characters with 16x10 dot matrix
Working pressure	0,3 bar to 0,4 bar
Operating temp. range	+0,5°C to +40°C
Storage temperature range	<ul style="list-style-type: none"> - +1°C to +45°C with water based ink - - -10°C to +45°C with acetone or ethanol based ink
Humidity	Up to 95% without steam condensation (the printer can be operated when it rains, on a dry surface)

EBS GmbH reserves the right to change these specifications without prior notice.

HANDJET EBS-260

the next generation



Technical Parameters

Touchscreen	Coloured display with hardened glass, 9cm diagonal	Optional special functions	Master-Slave Bluetooth connection with input devices such as: scanner, database functions, php-script administration
Number of nozzles	32	Power supply	External power supply 24V, 1,25A
Nozzle diameter	150 µm, optional 200 µm und 120 µm	Operating	time Up to 16 hours
Print image height	7 - 56 mm	Ink base	Quick-drying inks; ethanol, acetone or MEK-based, also pigmented (to be specified when ordering)
Minimum size of object to be printed on	from 40 mm	Ink types	Different colours; (black, blue, red, green, yellow) UV legible, (security inks), food-grade inks, inks for wood, concrete, pigmented inks for dark surfaces
Working position of the printer	any	Cartridge volume	200 ml
Printer memory	2 Gigabyte	Capacity per cartridge	> 200.000 characters in Matrix 7x5
Memory blocks for projects	>50.000 Projekte with 10.000 characters or more	Operating pressure	Nominal 0,35 bar, internal mini-compressor
Graphics, logos, graphical special characters	Black & white PNG data can be imported up to a height of 32 dots.	Operating temp. range	5°C - 40°C
Capable of Unicode	Yes	Storage / transport temperature	0°C - 45°C
TrueType Fonts installable	Yes	Humidity	Max. 90% without condensation
Special characters	National, diacritical characters, graphical info-, warning and transport characters	Weight incl. cartridge	1,65 kg
Special register	Date, time, expiry date, incremental and decremental counter, universal counter (piece, palette, etc. ...)		
Date format editable	yes		
Programming the printer	Via the built-in touchscreen, directly on the website of the specific printer in the Firefox browser or via Offline Editor (included)		
Special functions	Laser positioner, automatic measuring of objects		



Technical Parameters

Maximum character height	13 mm (0.51") – Printhead 7N/13 24 mm (0.94") – Printhead 7N/24 29 mm (1.14") – Printhead 16N/29 56 mm (2.20") – Printhead 16N/56 58 mm (2.28") – Printhead 32N/58
Adjustment of print height and vertical direction: yes (by slanting the printhead)	
Maximum print speed (for not slanted printhead)	
100 m/min. (at resolution not higher than 550 dots/m in a horizontal direction)	
7N/13, 16N/29, 32N/58 Printheads	
200 m/min. (at resolution not higher than 275 dots/m in a horizontal direction)	
7N/24, 16N/56 Printheads	
Integrated printhead	Number of printheads: 1
Types of printheads	7N/13, 7N/24, 16N/29, 16N/56, 32N/58
Number of degrees of slanting	5 150 µm/1.8 mm for 7N/13, 16N/29, 32N/58 printheads
Nozzle diameter/distance between nozzles: 170 µm/3.6 mm for 7/24, 16N/56Special	
Working position of the printer	any
Memory	1 GB
Operation	10.1" TFT colour display with touch function
External interfaces	Ethernet, USB-Port
Pressure trigger	Internal trigger generator or (optional) external shaft encoder
Power supply	100-240 V ~ 50/60 Hz
Weight	Complete printer with a 1 liter ink cartridge: approx. ca. 7.6 kg (16.5 lbs)

Fonts	Font-Types: Matrix-Fonts, TrueType Additional fonts in format: *.tff, *.bdf, *.pcf can be installed
Bar/matrix-codes	
1D codes:	GS1-Data Bar 14, GS1 Data Bar Limited, GS1 Data Bar Expanded
2D codes:	QR-Code, Data Matrix ECC200
Cartridge content	Approx. 1 liter or 0.5 liter
Ink base	Ethanol, Acetone or MEK





Technical Parameters

Housing stainless steel

Dimensions

210 x 160 x 420mm

Weight 4.800g (without ink)

Technical data*)

Number of printheads 1

Printer position during printing horizontal Distance from the printhead to an object for perfect results, EBS-2600 should have the smallest possible distance to object, but not more than 4mm

Connections

USB

Ethernet

Integrated Photocell

Option Port (Shaft Encoder, Sensors...)

Terminal to program the printer, you don't need to use the integrated terminal. You also can use an Ethernet connected PC to control the printer

Working conditions

Environment

temperature: 5°C – 40°C

Relative Humidity: 10-85% without water condensation

Power supply

100-240 V AC / 50-60Hz(1-) / max. 0,65-0,3A

Power consumption: max 15W•

Required inactive time none, the unit was developed for permanent operation

Specifications*)

Print height up to 71,8mm

Maximum resolution

510dpi

Storage Space 4GB

Graphics Monochrome PNG – graphics can be created i.e. with Paint or other software.

Barcodes1)

EAN 8, EAN 13, EAN 128, Code 2/5, Code 2/5 check, Code 39, Code 39 check, Code 128, DUN14, GS1 Databar

2D-Codes1) Datamatrix, GS1 Datamatrix, OR-Code, PPN-Code

Automatic functions Date, Time, Counter, customer-specific links

Max. print speed in m/min at 1280dpi
up to 60m/min.

Consumables

Ink Oil-based

Note – the manufacturer reserves the right that:
the range of available features, options and printer parameters may vary and depend on the option you have negotiated



Common Specifications for All Printers

Software: SAYASIS Template Design (Date and Time, Custom Formatted Date and Time, Text, Text Block, Merge Fields, Database Support, Counter, Logo, 1D / 2D Barcodes, GS-1 Barcodes, Table Creation Support and User-Friendly Interface). Windows Driver Support, Teklynx Software (Codesoft, Labelview and Label Matrix Support), Emulator Support, Printer Management with SPPL (Savema Protocol) Commands, Printer Control with RemoteControl)

Barcodes: 1D Barcodes (EAN-13, EAN-8, CODE 128, CODE 39, CODABAR, ITF 2of5, ITF 14, UPCA, UPC-E ...), 2D Barcodes (Datamatrix, QR Code, PDF417, Aztec code...), GS-1 Barcodes (GS1-128, GS1-Datamatrix, GS1-Databar Barcodes)

Resolution: 300dpi (12 dots/mm) horizontally and vertically

Operating Temperature: 1 °C – 55 °C (34°F-131°F)

Memory: 5000 Template Storage Capacity, 1GB Internal Memory, Up to 16GB SD Memory Card Support, Up to 32GB USB Memory Support

Technical Parameters

	53*70 I	53*125 C
Print Area	Width 53mm	Width 53mm
Print Speed	50 - 500 mm/sec	50 - 500 mm/sec
Production	330 prints/min	
Ribbon Widths & Length	35mm, 55 mm (1.4" – 2.2") & 600 meters (656yards) loaded ribbon	
Ribbon Save Modes	Vertical & Horizontal Ribbon Save Modes	
Power Supply	100-240V 50-60 Hz	
Air Supply	Min. 1 bar – Max. 5 bar	
Weight (printer)	9,4 Kg.	11 Kg.
Dimensions	1180mm H x 220mm W x 233mm D - 53*70 I 180mm H x 248mm W x 265mm D - 53*125 I	
Input/Outputs	Print Signal/Fault Signal, Busy Signal	
Operator Interface	7" 800x480 Pixels Resolution, Full-color display, Password protection on menus, Multi-language(18) support	
Connection Types	Relay(NPN, PNP) - Photocell(NPN, PNP)	
Communications	RS-232, Ethernet, USB	

Output Messages

53*70 I Update Error, Contact Error, Ribbon Break / Not Found Error, Remaining Ribbon Quantity, Number of Printed Templates, Number of Prints per Minute

Output Messages

53*125 C Update Error, Contact Error, Ribbon Break / Not Found Error, Remaining Ribbon Quantity, Number of Printed Templates, Number of Prints per Minute

Advanced Control 53*70 I 7" Touch Screen Control, Template Changing while Running, Print Position Adjustment, Contrast, Print Delay, Template-Specific Adjustment, Internal Contact Signal, Multi-print Contact Signal, Template Shifting, Template Rotation

Advanced Control 53*125 C 7" Touch Screen Control, Template Changing while Running, Print Position Adjustment, Contrast, Print Delay, Template-Specific Adjustment, Internal Contact Signal, Multi-print Contact Signal, Template Shifting, Template Rotation



Common Specifications for All Printers

Software: SAYASIS Template Design (Date and Time, Custom Formatted Date and Time, Text, Text Block, Merge Fields, Database Support, Counter, Logo, 1D / 2D Barcodes, GS-1 Barcodes, Table Creation Support and User-Friendly Interface). Windows Driver Support, Teklynx Software (Codesoft, Labelview and Label Matrix Support), Emulator Support, Printer Management with SPPL (Savema Protocol) Commands, Printer Control with RemoteControl)

Barcodes: 1D Barcodes (EAN-13, EAN-8, CODE 128, CODE 39, CODABAR, ITF 2of5, ITF 14, UPCA, UPC-E ...), 2D Barcodes (Datamatrix, QR Code, PDF417, Aztec code...), GS-1 Barcodes (GS1-128, GS1-Datamatrix, GS1-Databar Barcodes)

Resolution: 300dpi (12 dots/mm) horizontally and vertically

Operating Temperature: 1 °C – 55 °C (34°F-131°F)

Memory: 5000 Template Storage Capacity, 1GB Internal Memory, Up to 16GB SD Memory Card Support, Up to 32GB USB Memory Support

Technical Parameters

	107*125 I	107-125 C
Print Area	107 mm x 125 mm	107 mm x 125 mm (Standard) 107 mm x 250 mm (Optional)
Print Speed	50 - 400 mm/sec	10 - 600 mm/sec
Production	320 prints/min	300 prints/min
Ribbon Widths & Length	110 mm (4,28") & 600 meters (656yards) loaded ribbon	
Ribbon Save Modes	Vertical & Horizontal Ribbon Save	Modes Vertical Ribbon Save Mode
Power Supply	100-240V 50-60 Hz	
Air Supply	Min. 2 bar – Max. 5 bar	
Weight (printer)	12,6 Kg.	11,1 Kg.
Dimensions	180mm H x 265mm W x 303mm D - 107*125 I 180mm H x 220mm W x 303mm D	
Input/Outputs	Print Signal/Fault Signal, Busy Signal	
Operator Interface	7" 800x480 Pixels Resolution, Full-color display, Password protection on menus, Multi-language(18) support	
Connection Types	Relay(NPN, PNP) - Photocell(NPN, PNP)	
Communications	RS-232, Ethernet, USB	

Output Messages

107*125 I Update Error, Contact Error, Ribbon Break / Not Found Error, Remaining Ribbon Quantity, Number of Printed Templates, Number of Prints per Minute

Output Messages

107-125 C Missing Print Error, Encoder Error, Update Error, Contact Error, Ribbon Break / Not Found Error, Remaining Ribbon Quantity, Number of Printed Templates, Number of Prints per Minute

Advanced Control

107*125 I 7" Touch Screen Control, Template Changing while Running, Print Position Adjustment, Contrast, Print Delay, Template-Specific Adjustment, Internal Contact Signal, Multi-print Contact Signal, Template Shifting, Template Rotation

Advanced Control

107*125 C 7" Touch Screen Control, Template Changing while Running, Contrast, Print Delay, Template-Specific Adjustment, Internal Contact Signal, Multi-print Contact Signal, Template Shifting, Template Rotation



- 53mm x 400mm print area.
- 600 meter ribbon capacity.
- Resolution 300 dpi (12 dots / inch)
- Print Speed up to 400 mm/sec.
- 7" touch panel color control screen.
- 90 °, 180 °, 270 ° rotate features of the templates.
- Memory: 5000 Templates can be stored in the control screen memory.
- Power Supply: 110/220V 50/60 Hz.
- Programming: Real Date/Time, Text, 1D Barcode, 2D Barcode, Logo, Counter (Serial No), Shift Code, Shape, Currency.
- Barcode Types: 1D Barcodes (EAN-13, EAN-8, CODE128, CODE39, ITF 2of 5, ITF 14, CODABAR, UPC-A, UPC-E), 2D Barcodes (Datamatrix, QR Codes, PDF 417, Aztec code Semacode, Macro PDF 417).
- Communication: RS-232 (PC), LAN, USB
- PC Programme: Sayasis

Patented long life mechanical design needs no maintenance.
 53mm – 400mm print area.
 600 m. Ribbon Capacity
 300 dpi (12 dot/inch) Print Quality.
 Up to 400mm per/second print speed.
 Large memory for all label formats to be stored locally.
 The USB can be used to transfer messages between printers and through computer too.

- 107mm x 400mm print area.
- 600 meter ribbon capacity.
- Resolution 300 dpi (12 dots / inch)
- Print Speed up to 400 mm/sec.
- 7" touch panel color control screen.
- 90 °, 180 °, 270 ° rotate features of the templates.
- Memory: 5000 Templates can be stored in the control screen memory.
- Power Supply: 110/220V 50/60 Hz.
- Programming: Real Date/Time, Text, 1D Barcode, 2D Barcode, Logo, Counter (Serial No), Shift Code, Shape, Currency.
- Barcode Types: 1D Barcodes (EAN-13, EAN-8, CODE128, CODE39, ITF 2of 5, ITF 14, CODABAR, UPC-A, UPC-E), 2D Barcodes (Datamatrix, QR Codes, PDF 417, Aztec code Semacode, Macro PDF 417).
- Communication: RS-232 (PC), LAN, USB
- PC Programme: Sayasis

Patented long life mechanical design needs no maintenance.
 107mm – 400mm print area.
 600 m. Ribbon Capacity
 300 dpi (12 dot/inch) Print Quality.
 Up to 400mm per/second print speed.
 Large memory for all label formats to be stored locally.
 The USB can be used to transfer messages between printers and through computer too.



Technical Parameters

Min. width of product	: 50mm x 80mm
Max. width of product	: 300mm x 300mm
Maximum Belt Speed	: 200mm/sn.
Power	: 220V-50Hz-7A
Weight	: 16 kg.
Dimensions of Belt	: Width : 400mm - Length : 550mm Height : 160mm

Our feeders are designed to work with conveyor belt that placed in front of for serving in different industries. While products are moving continuously or intermittently, we are able to mark with Inkjet, Thermal Transfer Printers and Labelling. We are adjusting marking place with very sensitive sensors. It is very easy to use our systems. It can be mounted barcode readers, image control systems, address labelling&printing tools to our systems. At the rear back, there is a gathering box that is for marked products.

Applications

- Postal service and cargo
- Invoice and magazine feeding
- Ink jet printings
- Thermal Transfer Printer printings
- Labelling
- Pre-made package feeding
- Folding Machine feeding (OPP, CPP, PE, Paper, etc.)

Your brand is your most valuable asset. Protect it with the Sentinel 5000

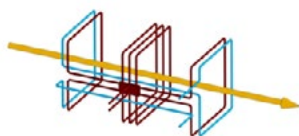
Featuring Multiscan: Scan five frequencies from 50 to 1000kHz*.

Food Safety

Highest probability of detection, eliminate escapes

Improved Sensitivity

Detects different metals at different frequencies



Multicoil design

A unique coil design maximizes the metal signal while minimizing the overall size of the metal detector. Each aperture size has a computer-optimized design.



1 Color touchscreen

A high-intensity, washdown, color touchscreen combined with easy-to-use software reduces training and operation time.

2 Protective cover for touchscreen

To protect from accidental damage – an optional polycarbonate flip-up cover is available.

3 Built-in USB port

Save/restore programs, off-load statistics and update software with a memory stick.

4 Integral power supply and I/O

Unlike other metal detectors, there are no separate boxes to wire in and mount. All power and I/O functions are self-contained, making mounting faster and more flexible.

Technical Parameters

Construction	Stainless steel 304 straightlined case, ABS plastic control panel, epoxy lined aperture
Protection Ratings	IP 69K, NEMA 4X, ATEX zone 22, hazardous location Class II Division 2 Groups F & G
Operating Temperature	-10°C to +40°C (+14°F to +104°F)
Relative Humidity	20% to 80% non-condensing
Electrical Supply	85 VAC to 260 VAC single phase plus earth ground; 47 Hz to 65 Hz, 100 watts maximum
Air Supply for AuditCheck option	5.5 bar (80 psi)
Product Speed	0.5 m/min (1.7 ft/min) to 1000 m/min (3,300 ft/min)
Output Types	6 Relays outputs; Relays: 250 VAC, 2-amp max.; 50 VDC, 1-amp max.
Output Applications (software selectable)	Reject 1, Reject 2, AuditCheck, Fault, Alarm, Warning, QA lamp
Input Types	6 Inputs – Active 12 VDC + 12 V auxiliary supply for input sensors
Input Applications (software selectable)	Speed Sensor, Keylock, Product Select 1, Product Select 2, Product Trigger, Reject 1 Confirm, Reject 1 Complete, Reject 2 Confirm, Bin Full, External Suppression, Clear All Warnings/Faults/Alarms
Communications Options	Modbus Ethernet TCP/IP or RTU serial
Safety and Export Approvals	cCSAus, CE, ATEX zone 22
Manufacturing Quality	ISO9001 certified
Help-Text, Users Manual Languages	English, Spanish, French, German, Italian, Dutch, Chinese, Czech, Russian, Polish



- Broad range of applications
- High accuracy and stability
- Very easy to use and maintain

Technical Parameters

Specifications by Model						Box 25†
VersaWeigh Model	10-015	Pharma*‡	20-015/030	30-015/030/060	40-30-060-100	35/45-120/250*†
Weigh Range	1.5 kg	1.2 kg	1.5/3.0 kg	1.5/3.0/6.0 kg	3.0/6.0/10.0 kg	12/24 kg
Belt Width (BW)	100 mm	80-140 mm	200 mm	300 mm	400 mm	350-450 mm
Infeed Length (IL)	350, 500 mm	350-500 mm	250-1000 mm	350-1000 mm	500-1000 mm	600-800 mm†
Combo Infeed Length (CL)	600-700, 800 mm	Consult factory	600-1000 mm	600-1000 mm	700-1000 mm	Consult factory
Weigh Table Length (WL)	200, 250 mm	200-250 mm 2	50-500 mm	350-600 mm	500-800 mm	600-800 mm
Outfeed Length (OL)	350, 500 mm	350-500 mm	250-1000 mm	350-1000 mm	500-1000 mm	600-800 mm†
Roller Diameter	16 mm	16 mm	24 mm/27 mm	34 mm	34 mm	49 mm
Tubing Diameter	50 mm	50 mm	50 mm	75 mm	75 mm	64 mm
Motor Type	100 W	100 W	200 W	400 W	400 W	400 W

Specifications Common to All Models

Material	Integrated, stainless-steel conveyors and frame; Optional stainless-steel, free-standing infeed/outfeed; Pulleys: aluminum
Interface Languages	Multi-language interface standard
Data Communication Options	USB; serial; parallel; FTP Ethernet; Modbus
Options	Many options for reject and product handling; IP66 option pack; FDA belting; Servo filler/feedback option; Tracker option; Combination system with any Thermo Scientific APEX metal detector; and many more
Certifications	OIML, MID (for OIML, MID and special certifications, some values may vary)

*Pulleys stainless steel or aluminum. Pharma weigh table in aluminum; for availability consult factory. Box 25 partially aluminum and stainless steel, for availability in what countries, consult factory.

†Free-standing conveyor frames are stainless steel, pulleys are stainless steel or aluminum

‡Not available in the United States or Latin America



Touchscreen
Protected, large touchscreen for washdown and durability, and adjust image function for on-the-fly detection adjustment while the system is inspecting



Rejection Systems
Configurable rejection systems based on the VersaWeigh checkweigher. Variable speed controlled by the NextGuard.



QA Check Function
Unique, configurable software feature allows definition of up to three audit types. Prompts the operator to run the audit and saves statistics/images from the process separately from production data.



- **Detects a wide variety of foreign objects**
- **Simple to install and use**
- **Easy to own and service**

Certified around the world
Safety is assured with an LED light stack, multiple e-stops, x-ray key switch and safety interlocks on all doors and covers.

USB and Ethernet ports
Standard watertight connections are available for data input/output and remote connection for help and troubleshooting.

Radiation shielding curtains
(with cover removed)
Lead and no-lead shielding curtains available. Easy to replace and adjust.

Modular conveyor
Transport system is completely removable in minutes for thorough cleaning, belt change and maintenance/repair. Conveyor direction can be changed in the field by service technicians in less than one hour.



Technical Parameters

Application and X-Ray Specifications

X-Ray Power	160 Watts or 100 Watts, 40-80kV
X-Ray Detector	Unique design with no inspection blind spots, 0.8mm pixel size
Scan Rate	Up to 1667 lines per second
Typical Sensitivity	≥ 1mm diameter for steel, ≥ 3 mm for other dense contaminants (depends on the relative density of the contaminant as compared to the package)
Detection Algorithms contaminant	Available Simple threshold, gradient, dot morphology small, dot morphology medium, dot morphology large, area measure
Aperture/Product Width and Height	340 mm X 185 mm (13.4 in X 7.3 in)
Belt Speed	Variable speed - 10-80m/min (262 ft/min) for 160 Watts, 50m/min (164 ft/min) for 100 Watts
Conveyor Heights	(specify at order time) 800 mm (31.5 in), 900 mm (35.4 in), 1000 mm (39.4 in), 1100 mm (43.3 in)
Conveyor Length	1 m (3.28 ft), optional reject systems extend system length
Belt Material	USDA/FDA approved urethane
Security/Safety Features	X-ray power key, four level password system, emergency X-ray/conveyor stop button, lead/lead-free curtains, failsafe LED x-ray imminent and on indication light
Human Machine Interface (HMI)	Windows® 7, touchscreen, 307 mm (12.1 in) diagonal
Language Interfaces Available	English, Spanish, French, Italian, German, simplified Chinese. Contact the factory for additional languages.
Data File Export	Excel, PDF, or xml format selectable
Remote Access	Teamviewer standard
External Rejecter Options	Integrated variable speed conveyors. Air blast or pusher. Lockable reject bin and reject/bin full photo sensors.
Environment, Electrical and Operational Specifications	
Operating Temperature	5°C to 30°C (41°F to 86°F) with cooling fan or 5°C to 40°C (41°F to 104°F) with air conditioner
Relative Humidity	20% to 90% non-condensing
Electrical Supply	195 VAC to 250 VAC, 50/60 Hz, auto sensing, single phase, 10 amps.
Digital Outputs/Allocation	Four outputs, 24 VDC 0.5 A, assignable function
Digital Inputs/Allocation	Four inputs, 24VDC 25 mA, NPN/PNP (jumper selectable), assignable function
USB Port	Watertight USB 2.0 standard
Ethernet Port	Watertight Ethernet port standard
Machine Weight	320 kg (700 lbs)
Conformance Tests and Certifications	
Radiation Safety Conformance	FDA CFR 21 part 1020.40, RED act. Others available, contact the factory.
Export/Safety Certificate	CE. UL or CSA on request
IP Washdown Conformance	IP65 with air conditioner, IP54 with cooling fans. Full stainless steel type 304 construction.
Manufacturing Quality	ISO9001 certified facility



Safety is assured via an LED light pole, multiple e-stops, X-ray key switch, inspection area door lock and safety interlocks on all doors.



Conveyor belt changes in minutes. Modular design with many infeed/outfeed lengths, rejecters, bins, and shields.



No lead X-ray shielding curtains on fully adjustable and removable frame for safety, flexibility and easy maintenance.



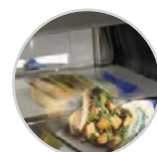
Protected, large touchscreen for washdown and durability. Watertight USB port for data import and export. Ethernet connection also built in.



High-quality, stainless-steel air conditioning cooling. Wide operating temperature range and IP65 rating.



Air blast and pusher rejection options. Lockable reject bins with reject verification and bin full photoeyes, too.



Technical Parameters

Application and X-Ray Specifications

X-Ray Power	70 kV, 1.2 mA (84 W)
Detector Scan Rate	Up to 2800 lines/second
Detector Resolution	0.8 mm standard, 0.4 mm optional
Detection Algorithms Available	Binary, Contrast, Gradient, Groups, Morphology
Inspection Algorithms Available	Weight, Count, Grid and customizations
Aperture Width and Height	See beam coverage drawing
Belt Speed Range	5 m/min to 80 m/min (16 ft/min to 263 ft/min)
Multilane Operation	Up to 8 lanes
Conveyor Heights Available	800 mm to 1400 mm (31.5 in to 55 in)
Conveyor Lengths Available	1.5 m (4.9 ft) standard, others available on request
Belt Material	FDA approved urethane
X-Ray Curtain Material	Proprietary no-lead material
Safety/Security Features	X-ray power key, emergency stops, radiation curtains, LED X-ray imminent/on lights, all doors equipped with magnetic interlocks
Human Machine Interface (HMI)	15-inch diagonal touchscreen with protective cover
Interface Languages Available	English, Spanish, Italian, French, German, Chinese; Others available on request

Environmental, Electrical and Operational Specifications

Operating Temperature	+5°C to +40°C (+41°F to +104°F)
Machine Cooling	Built-in 2083 BTU (610 W) cabinet airconditioner
Relative Humidity	20% to 90% non-condensing
Electrical Input	190 to 240 VAC, 50/60 Hz, 20-amp service
Digital Outputs	4 available
Digital Inputs	6 available
USB Port	2.0, watertight port on outside of machine
Network Port	Ethernet
Compressed Air (for rejection devices)	80 psi to 100 psi (5.5 bar to 6.9 bar)
Machine Weight (standard model)	415 kg (915 lbs)

Conformance Tests and Certifications

Radiation Safety Conformance	FDA CFR 21 part 1020.40, UK IRR 1999, RED act (contact factory for other regional certifications)
Export/Safety	CE, UL or CSA 508A on request (verified by ETL)
Intrusion Protection Rating	IP65



OPTIONALS

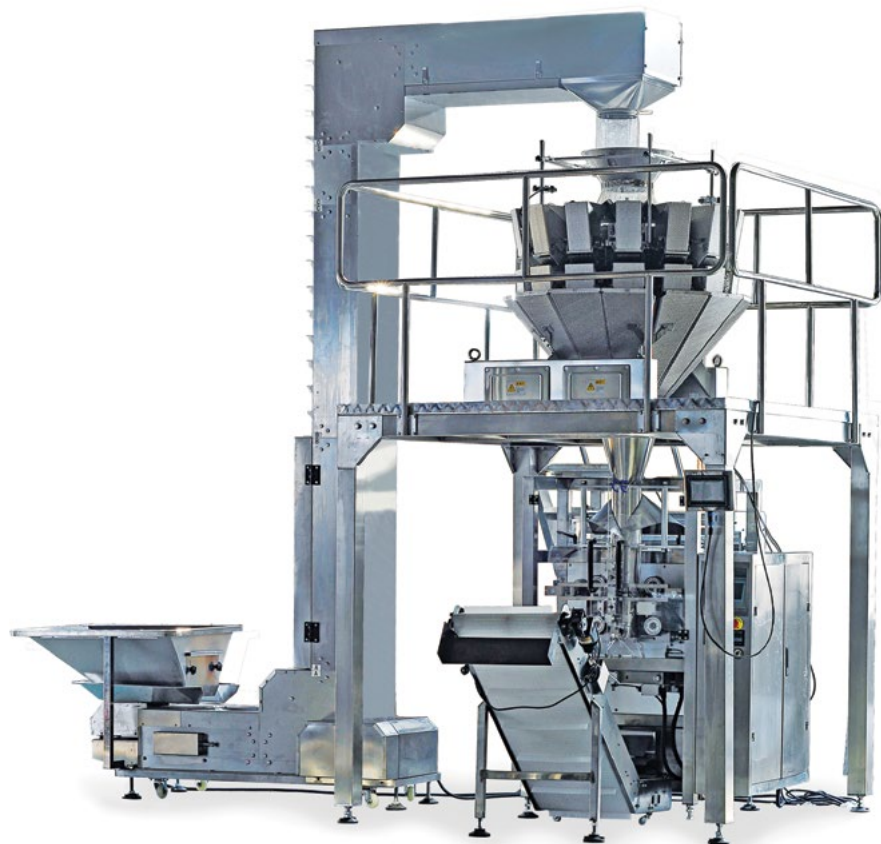
- Touch Screen GUI Control Unit interface for local job creation and modification
- Alphanumeric Keyboard Control Unit interface for local job modification
- IP 66 / NEMA 4 enclosure
- Scanning Head Mounting Extension Modules
- Product Detector and Shaft Encoder
- Fumes / Dust Extractor (with Active Carbon filter)
- Chiller for Water-Cooled Systems

Technical Parameters

Laser Output Power	10W	30W
	Sealed CO2 laser tube, laser gas lifetime – 30,000 hours average/for fiber laser 100,000 hours	
Electrical Requirements	230V 50Hz / 115V 60Hz, 1PH	230V 50Hz / 115V 60Hz, 1PH
Power Consumption	450W	700W
Marking Head		
Dimensions	812 x 140 x 140 mm	726 x 140 x 140 mm
LxHxW	(32.2 x 5.5 x 5.5 in.)	(28.8 x 5.5 x 5.5 in.)
Weight	13 kg (29 lb.)	13 kg (29 lb.)
Control Unit		
Dimensions	160 x 360 x 335 mm	160 x 360 x 335 mm
HxWxD	(6.3 x 14.2 x 13.2 in.)	(6.3 x 14.2 x 13.2 in.)
Weight	8 kg (18 lb.)	8 kg (18 lb.)

Marking Specifications

Marking speed	1000 characters/sec		Character height 2mm, Lens and Material Dependent		
	Flat field (F-Theta) lens				
Lens type	LF2	LF3	LF4	LF5	LF8
Marking field (mm)	50 x 50	80 x 80	100 x 100	120 x 120	200 x 200



Technical Parameters

Application:

Multi head weighing and packaging system is suited for variety of applications and available in 5 models, the 8, 10, 14, 16, 20 and 24 head. Suitable for products like nuts, biscuits, dried fruits, frozen food, sugar etc.

- Fully automatic weigh-form fill seal machine
- Vertical Packing Machine
- Multihead weigher
- Automatic Z-type bucket elevator
- supporting platform
- Finished products conveyor
- Finished Products Conveyor

Optional:

- Bag Support and ejector
- Gusset device for flat bottom
- Product feeding conveyor instead of elevator
- Thermal Transfer Printer
- Label Applicator Euro-hole
- Photocell for print alignment
- Checkweigher or Metal detector

Packing Volume	Upto 500g	Upto 1000g	Upto 3000g	Upto 5000g
Max width of roll film	320 mm	420 mm	520 mm	720 mm
Power voltage	220VAC 50HZ	220VAC/50Hz	220VAC/50HZ	220VAC/50/60HZ
Power	2KW	2.2KW	4KW	KW



Technical Parameters

Application:

Auger filling system to pack different types of powders like flour, coffee, milk powder, starch, herbs, spices etc.

- Fully automatic Form Fill Seal Machine
- Large Vertical Packing Machine
- Auger Filler
- Auger Elevator
- Finished Products Conveyor

Optional:

- Bag Support and ejector
- Gusset device for flat bottom
- Thermal Transfer Printer
- Label Applicator
- Euro-hole
- Photocell for print alignment
- Check weigher or Metal detector

Packing Volume	Upto 500g	Upto 1000g	Upto 3000g	Upto 5000g
Max width of roll film	320 mm	420 mm	520 mm	720 mm
Power voltage	220VAC 50HZ	220VAC/50Hz	220VAC/50HZ	220VAC/50/60HZ
Power	2KW	2.2KW	4KW	3KW



Technical Parameters

FAR-E - ROTARY JAWS FLOW PACK MACHINE WITH FILM ROLL FROM THE TOP

Main machine structure in steel with covers in stainless steel
 Product contact parts in stainless steel
 Easy access to electric and pneumatic parts
 1600 mm long infeed conveyor with nylon pushers (standard)
 Two sets of wheels for longitudinal sealing
 1-up transverse rotary sealing jaw 240mm
 Reel holder with expanding shaft 500mm
 800 mm long discharge conveyor belt complete of AC motor
 Three brushless servomotors
 High-resolution 4,3" touch screen integrated control panel
 Power 3/6 Kw. Voltage 400V-3-50 Hz.
 CE conformity

OPTIONALS

Photocell for print registered film
 Printers
 Two or more up-jaws
 Special loading systems
 Zig-zag knives
 Euroslot die cutting system
 Full Inox version

Marlin

Marlin 52

Standard



Option



Option ACS

Pump Capacity 63 m³/h
Machine Cycle 15-40 sec
Chamber Dimensions
520 x 500 x 200 mm
Machine Dimensions
710 x 700 x 1025 mm
Seal Bar 2 X 520 mm
Weight 165 kg
Voltage 400V-3-50Hz
Power 1,8 kW

Standard

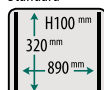
Time Control, Double Seal/
Cut-Off Seal/Wide Seal (8 mm),
Soft Air

Options

Sensor Control,
Liquid Control, ACS, Gas Flush,
1-2 Cut-Off Seal

Marlin 90

Standard



Option



Pump Capacity 63 m³/h
Machine Cycle 15-40 sec
Chamber Dimensions
320 x 890 x 100 mm
Machine Dimensions
480 x 1066 x 970 mm
Seal Bar 2 x 320 mm
Weight 219 kg
Voltage 400V-3-50Hz
Power 1,8 kW

Standard

Time Control, Double Seal/
Cut-Off Seal/Wide Seal
(10 mm), Soft Air

Options

Sensor Control,
Liquid Control, ACS,
Gas Flush

Professionals in FOOD & NON-FOOD Packaging

Perfect fit for greater packaging needs and high volumes of food products. Absolute must-have for large-sized, companies that process food products such as meat, fish, fruit, vegetables and nuts. Wide range of options available, such as Sensor control, Advanced Control System and Liquid control.

Aero

Aero 35/Aero 35+

Standard



Pump Capacity 8 M³/h (A³⁵), 16 M³/h (A³⁵⁺)
Machine Cycle 20-40 sec (A35), 15-35 sec (A35+)
Chamber Dimensions 370 x 350 x 150 mm
Machine Dimensions 543 x 451 x 454 mm
Seal Bar 350 mm
Weight 36 kg (A35), 41 kg (A35+)
Voltage 230V-1-50Hz
Power 0,4 kW (A35), 0,6 kW (A35+)

Standard

Easy Interface With Sensor Control, Double/Cut-Off/ Wide Seal (8mm), Soft Air

Options

Liquid Control

Aero 42/Aero 42+

Standard



Pump Capacity 16 m³/h (A42), 21 m³/h (A42+)
Machine Cycle 20-40 sec (A42), 15-35 sec (A42+)
Chamber Dimensions 370 x 420 x 180 mm
Machine Dimensions 523 x 491 x 454 mm
Seal Bar 420 mm
Weight 57 kg (A42), 61 kg (A42+)
Voltage 230V-1-50Hz
Power 0,6 kW (A42), 0,8 kW (A42+)

Standard

Easy Interface With Sensor Control, Double/Cut-Off/ Wide Seal (8mm), Soft Air

Options

Liquid Control

Aero 42XL/Aero XL+

Standard



Option



Options
2nd seal bar

Pump Capacity 16 m³/h (A42XL), 21 m³/h (A42XL+)
Machine Cycle 20-40 sec (A42XL), 15-35 sec (A42XL+)
Chamber Dimensions 460 x 420 x 180 mm
Machine Dimensions 613 x 491 x 469 mm
Seal Bar 420 mm
Weight 68 kg (A42XL), 72 kg (A42XL+)
Voltage 230V-1-50Hz
Power 0,6 kW (A42XL), 0,8 kW (A42XL+)

Standard

Easy Interface With Sensor Control, Double/Cut-Off/ Wide Seal (8mm), Soft Air

Options

Liquid Control, 2nd Seal Bar

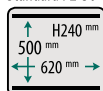
Polar

Polar 2-40/2-50

Standard P2-40



Standard P2-50



Pump Capacity 63 m³/h
(P2-40) 100 m³/h (P2-50)

Machine Cycle 15-40 sec

Chamber Dimensions
400 x 620 x 240 mm (P2-40)
500 x 620 x 240 mm (P2-50)

Machine Dimensions
820 x 1490 x 1345 mm (P2-40)
920 x 1480 x 1325 mm (P2-50)

Seal Bar 2 x 620 mm (P2-40/
P2-50)

Weight 310 kg (P2-40)
345 kg (P2-50)

Voltage 400V-3-50Hz

Power 2.1-3.0 kW (P2-40)
2.6-3.5 kW (P2-50)

Standard

Time Control, Double/Cut-Off/
Wide Seal (10 mm), Soft Air,
2 Seal Bars

Options

Sensor Control, Liquid
Control, ACS, Gas Flush,
1-2 Cut-Off Seal, Bi-Active
Seal, Extra Seal Capacity,
Preparation For External
Pump

Polar 2-75

Standard



Option



Pump Capacity 160 m³/h
Machine Cycle 15-40 sec

Chamber Dimensions
750 x 620 x 250 mm
(2 seal bars - front, back)

Machine Dimensions
1205 x 1485 x 1340 mm
Seal Bars 2 x 620 mm

Weight 537 kg

Voltage 400V-3-50Hz

Power 4.0-4.4 kW

Standard

Time Control, Double/Cut-Off/
Wide Seal (10 mm), Soft Air,
2 Seal Bars

Options

Sensor Control, Liquid
Control, ACS, Gas Flush,
1-2 Cut-Off Seal, Bi-Active
Seal, Extra Seal Capacity,
300 M3 Pump, Preparation For
External Pump



Polar 2-85/2-95

Standard P2-95



Standard P2-85



Option P2-95



Option P2-85



Option P2-95



Pump Capacity 300 m³/h
Machine Cycle 10-30 sec (P2-85) 15-40 sec (P2-95)
Chamber Dimensions
 830 x 840 x 255 (P2-85)
 730 x 1100 x 280 mm (P2-95)
Machine Dimensions
 1295 x 1900 x 1450 mm
 1215 x 2420 x 1595 mm
Seal Bar 2 x 840 mm (P2-85)
 2 x 1100 mm (P2-95)
Weight 685 kg (P2-85)
 767 kg (P2-95)
Voltage 400V-3-50Hz
Power 5,5-6,0 kW (P2-85)
 5,5-7,8 kW (P2-95)

Standard

Time Control, Double/Cut-Off/
 Wide Seal (10 Mm), Soft Air,
 2 Seal Bars

Options

Sensor Control, Liquid
 Control, Acs, Gas Flush,
 1-2 Cut-Off Seal, Bi-Active
 Seal, Automatic Lid,
 Extra High Lid (P2-85), Extra
 Seal Capacity, Preparation For
 External Pump

Titaan

Titaan 2-90

Standard



Pump Capacity 300 m³/h
Machine Cycle 30-50 sec
Chamber Dimensions
 840 x 890 x 220 mm
Machine Dimensions
 1061 x 2420 x 1150 mm
Seal Bar 2 x 840 mm
Weight 850 kg
Voltage 400V-3-50Hz
Power 5,5 kW

Standard

Advanced Control System,
 Sensor Control, Double Seal/
 Cut-Off Seal/Wide Seal
 (10 Mm), Soft Air, Stop Button
 For Partial Or Full Cycle
 Interruption, 2 Conveyor Belts,
 Footswitch

Options

Liquid Control, 1-2 Cut-Off
 Seal, Transport Conveyor
 (600 X 3000 Mm), Preparation
 For External Pump



Technical Parameters

	FP/ECO	FP/10
Turntable Diameter (M.M.)	1500	1500
Turntable Rotating Speed (R.P.M.)	10	10
Max. Load Capacity (KG.)	1500	1500
Max. Load Width (MM.)	1200	1200
Max Load Length (MM.)	1200	1200
Max Load Height (MM.)	2000	2000
Max Film Roll External Diam. (MM.)	300	300
Max Film Roll Height (MM.)	500	500
Film Carriage With Chain Transmission	Standard	Standard
Mechanical Clutch For The Film Tension Regulation	Standard	Standard
Buttons For The Manual Control Of The Film Carriage Ascent/Descent	Standard	○
Electronic Control Box (Programmed Microprocessor) With Digital Keyboard	○	Standard
Cross Wrapping Cycle	○	Standard
Wrapping Cycle With Reinforcing Wraps (Manual Control/Positioning)	○	Standard
Separate Timer For The Bottom And Top Wraps Setting	○	Standard
Reset Button For The Repositioning Of The Film Carriage	○	Standard
Photocell For The Pallet Height Detection	○	Standard
Must With Hinge Facility For A Very Easy And Quick Installation	Standard	Standard
Installed Capacity (KW)	0,4	0,4
Standard Electric Setting	380V 3F + T	380V S-PH+ Earth
Machine Total Weight (KG)	350	360

Wide Range Of Accessories Available

○ : Not Available



Carton Sealing Machine

Options:

- Outside tension adjustment
- Air filter
- Stainless steel structure SUS #304
- Caster with brake



Semi-automatic Strapping Machine

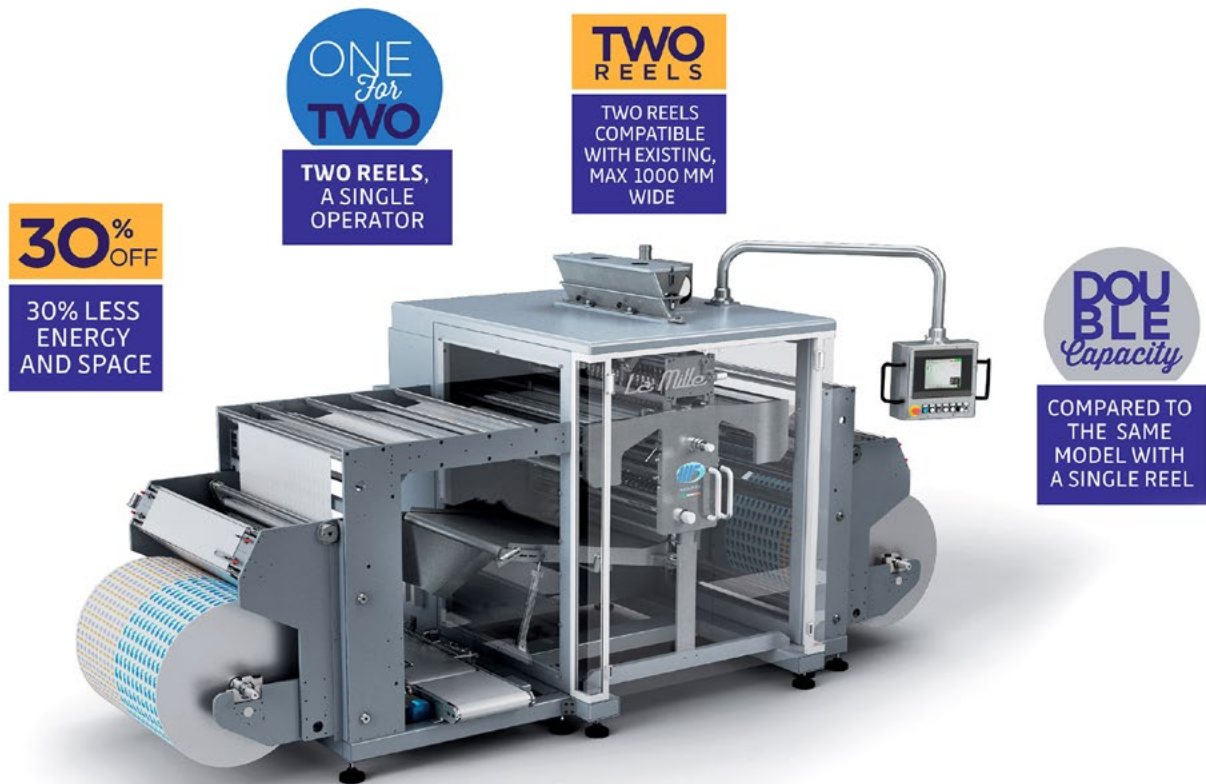
Options:

- Extension roller table
- 60 sec. auto-stop
- Stainless steel structure SUS #304
- 3 phase, 220/380/415/440V

Technical Parameters

Power	1 Phase, 110/220V, 50/60Hz
OPP	2 7/3" (Please advise when ordering)
Sealing Size	L above 150 x W200-500 x H120-500mm (2" tape) L above 150 x W225-500 x H120-500mm (3" tape)
Capacity	30 boxes/min. For box length 300mm (Belt speed 20M/min)
Net Weight	160Kgs
Machine Size	L1044 x W779 x H1569-1764 mm

Power	1 Phase, 110/220V, 50/60Hz
OPP	9, 12, 15 mm (adjustable) (6mm option)
Strapping Tension	15 ~ 50 kgs
Strapping Speed	2.0 sec./strap
Strapping Size	Min. : 60 mm, Max. : Any size
Table Height	750 mm
Machine Size	L910 x W580 x H750 mm

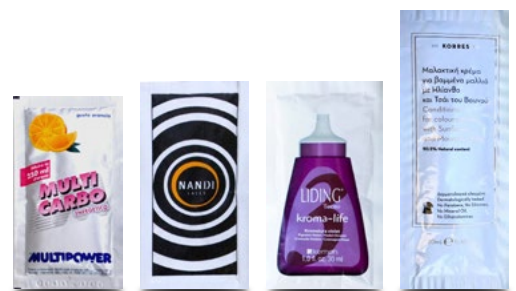


With model La Mille company MF PACKAGING wins the new record of technological development in the field of Multi-lanes Packaging Machines.

It is the happy result of more than 20 years of investment in Research and Development. Innovation, Creativity and Business Skills in perfect Italian style that have always distinguished MF PACKAGING.

La Mille packaging machine is Conscious Engineering and High Innovation Technology applied to the world of Multi lanes and Packaging machines.

A Technological Revolution that puts the MF customer into the new era of single-dose packaging world, enhancing its business in the future thanks to the high reliability of the mechanical components, to guarantee lower investment costs with the same production capacity.



Technical Parameters

N°2 reel holder side group complete of:

- Splicing table to do easy reel junction operation during reel change activity
- Automatic reel centering group
- Unwinding reel group
- Dedicated software for reel centering on both sides
- Side pulling groups
- Sealing group composed of: vertical sealing rollers, horizontal sealing rollers
- Horizontal cutting group
- N° 2 Photocell devices to centre the printing



Full Packaging line consisting of a Packaging Machine with sealing on 4 sides, a feeder/counting/stacking system, along with a cartoning machine.

Used in various product sectors, iPack HIP makes cases containing a stack of single-portion bags that are heat-sealed on 4 sides, as well as being counted or arranged in an orderly manner inside it.

By using different batching systems it can pack any kind of product: granular and powder ones, liquids and pasty items.

Thanks to its drive unit controlled by brushless motors and a touch-screen operator manual, it is fully synchronised and ensures consistently high efficiency on the line.

Reliable and easy to use, it does not require too much maintenance or qualified personnel.

Option of installing the remote support system to control the management software.

Its nice compact design makes it very easy to clean.

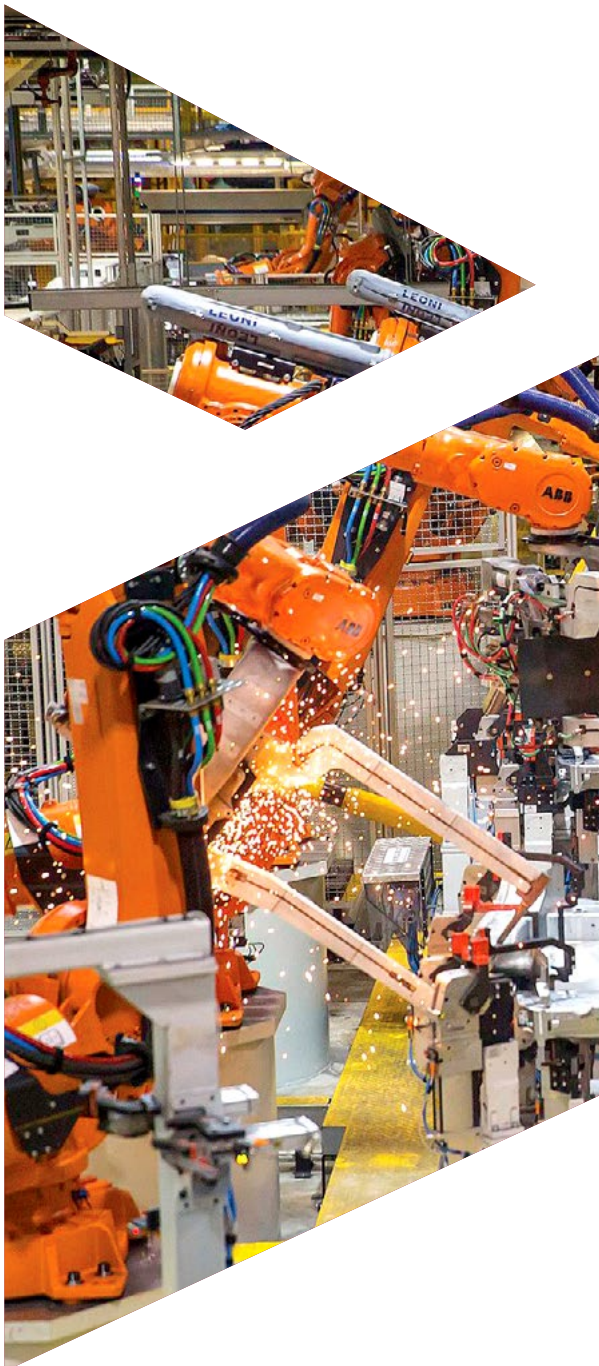


Technical Parameters

- No of lines: from 2 to 10
- Max reel diameter: 500 mm
- Max reel length 1200 mm
- Bag length: variable from 30mm to 250mm
- Bag width: fixed, because it is shaped
- Production speed: up to 80 cycles/min
- Max volume that can be packaged: 300 cm³
- Drive unit: Brushless motors
- MF offers the chance to design, together with its clients, a full system to package stick packs in tailor-made cases.
- The lines can be fitted with all the devices require both by the food and the pharmaceutical industry.



INDUSTRIAL AUTOMATION & ROBOTICS.



Our Expertise

Manufacturing Automation

- ✓ Robotic Cells Design
- ✓ Robotic Tools Design
- ✓ Automated Systems
- ✓ Mechanical Systems
- ✓ Modification and Optimization

Process Automation

- ✓ Programming and Configuration
- ✓ SCADA
- ✓ Operational Data Acquisition
- ✓ Instrumentation

Other Services

- ✓ Control Panel Manufacturing
- ✓ Prototypes
- ✓ Preliminary and Detailed Engineering
- ✓ Risk analysis – Machine safety
- ✓ Consulting



Manufacturing Automation

With its multidisciplinary teams of qualified experts in mechanical, electrical, automation, robotics, instrumentation and information systems, Astropack Gulf LLC is a partner of choice to assist in designing and optimizing manufacturing processes.

Our experts provide clients with turnkey solutions that include:

- Robotic cells design.
- Robotic tools design.
- Design of automated systems.
- Design of mechanical systems.
- Equipment modification and optimization.
- Information system optimization.
- Post-design assembly.
- Quality and functionality validation – Testing.
- Installation on production site.
- Commissioning and start-up



Process Automation

Astropack Gulf LLC provides innovative technological solutions for a wide variety of manufacturing and industrial issues and challenges.

Our team of qualified experts in mechanical, electrical, automation, robotics, instrumentation and information system possess the following expertise to meet clients specific needs:

- Systems and equipment programming and configuration.
- Control system design, programming and implementation SCADA.
- Business process streamlining and optimization – CAPM (MES).
- Operational data acquisition - Historian.
- Network selection, design and optimization.
- Instrumentation selection, design and optimization.

Robotic Cells Design

Robotic cells developed at Astropack Gulf are the result of the creativity and skills of our multidisciplinary team.

Our designers first perform a detailed analysis of the application from various angles (mechanical, physical, control, electronics, security, usability).

Everything is then discussed in brainstorming and validation sessions with our clients. These essential sessions help push the boundaries to end up with the best concepts.

In other words, the energy and experience of our teams, combined with a rigorous methodology, allow us to develop solutions that meet complex production needs.

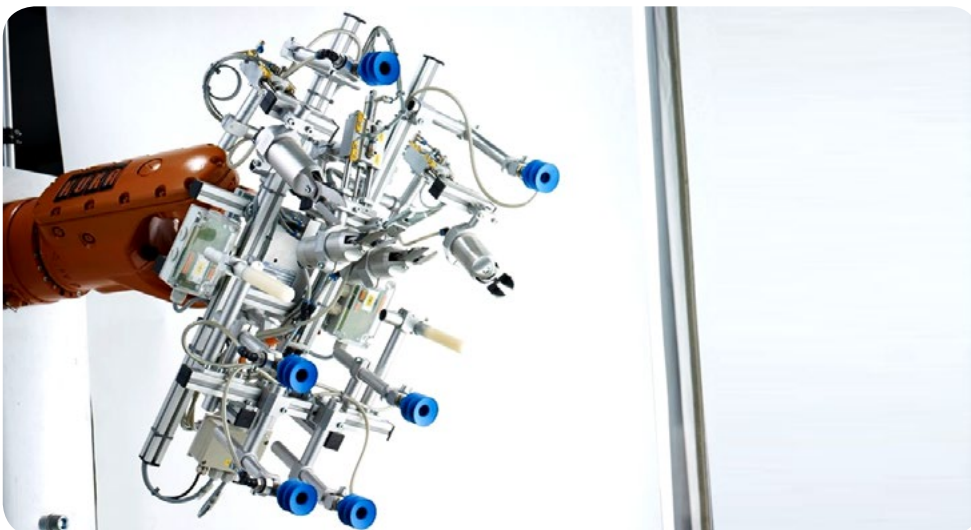
Robotic Tools Design

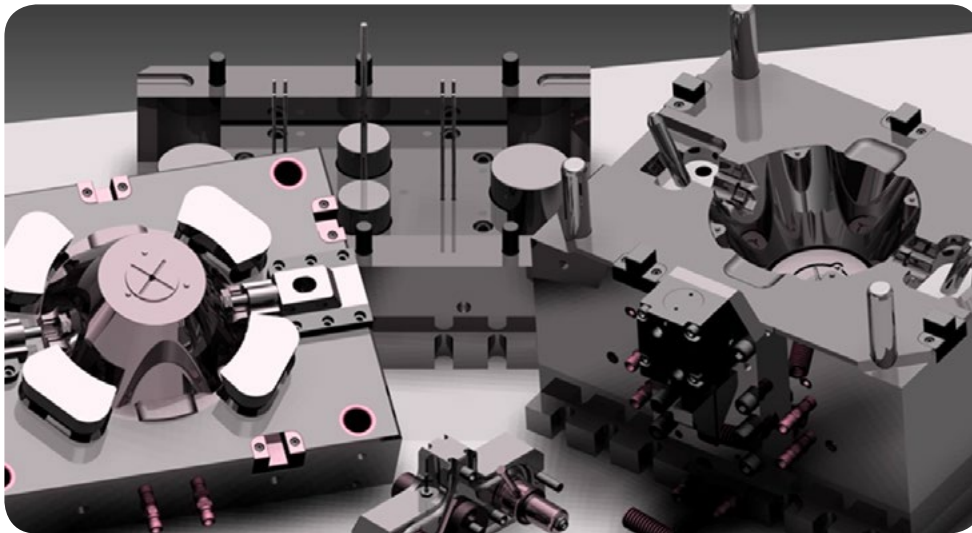
Astropack Gulf LLC is an expert in complex robotic tool design, the centrepiece of a robotic system specifically designed for an application or a product to handle.

As in the design of robotic cells, a rigorous methodology is set up to develop solutions that meet the most complex production needs.

Moreover, in order to validate concepts and ensure that tools can correctly handle parts repeatedly and accurately, our experts undertake feasibility assemblies.

In other words, we can develop an infinite variety of robotic tools for virtually any part or application on any robot.





Design of Mechanical Systems

Astropack Gulf LLC has been designing and manufacturing complex mechanical systems to meet its customers needs.

Our mechanical engineers and technicians use their expertise to design a full line of products from simple parts that add to or improve equipment, right up to customized robotic production cells.

Using our cutting-edge tools, we model each component individually, but also as part of a whole. Parts are designed and made ready for production based on shop drawings.

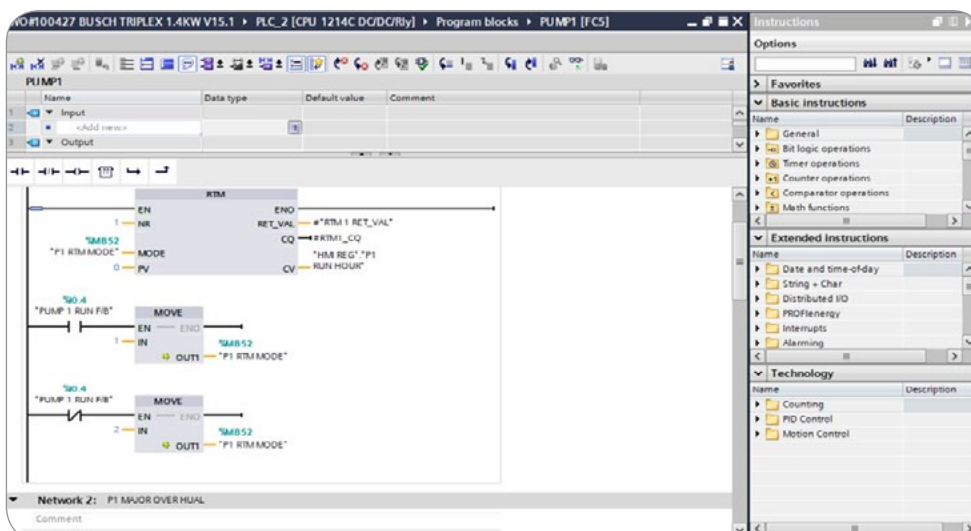
Our expertise in system mechanics complements our expertise in electrical and pneumatic control to provide clients with an optimal solution.



Equipment Modification & Optimization

Astropack Gulf LLC has the expertise to modify and optimize existing equipment that is often acceptable but not optimized.

Our solutions help to improve productivity (increase production rate, reduce production time, minimize stoppages, increase service life of replacements parts) or to modify equipment for the manufacturing of a new product.

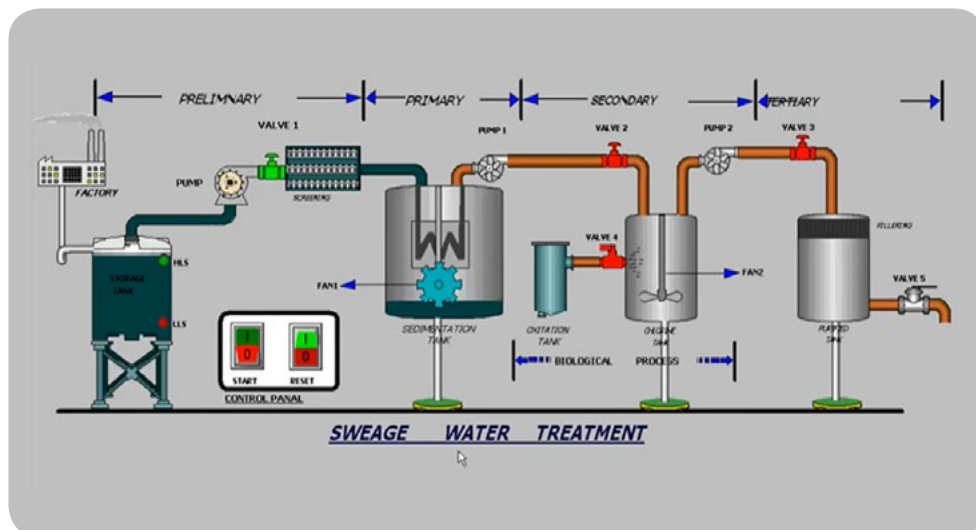


Systems & Equipment Programming & Configuration

The programming and configuration of equipment gives life to the detailed engineering developed in a project's early stages.

Whether clients need a new control system, a replacement or an upgrade of an existing system, Astropack Automation's engineers and technicians have extensive experience in most common PLC and DCS equipment.

They apply their knowledge using the latest engineering and programming tools to convert logic diagrams and generate standard codes to write custom applications.



Control System Design, Programming & Implementation - SCADA

Automation and controls are at the heart of Astropack automation division activities. We have the experience with all of the major PLC and DCS system providers on the market, as well as axis control systems.

We are committed to broadening our knowledge and keeping it up to date through investment in training for our experts and continuously adding qualified resources to our team.

Our expertise:

- Highest standards in terms of design and programming.
- Diverse and versatile knowledge leading to integrated solutions that eliminate the need to use multiple resources or companies to successfully complete projects.
- Implementation of controls and SCADA systems.
- Revenue management and operations planning.



Instrumentation Selection, Design & Optimization

Astropack can provide all services involved in engineering instruments for all types of industries, including:

- Determining the type of instrument to use for each application.
- Establishing specifications for all types of required instruments, sensors, controllers and actuators.
- Preparing bid documents for product supply
- Analysing bids, engaging in discussions with bidders & providing recommendations to the client.
- Preparing installation documents for various instruments.
- Installing, calibrating, programming and certifying field equipment together with required certifications.



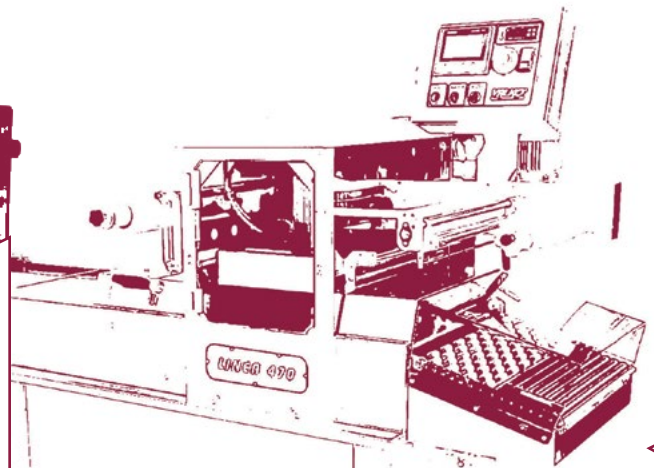
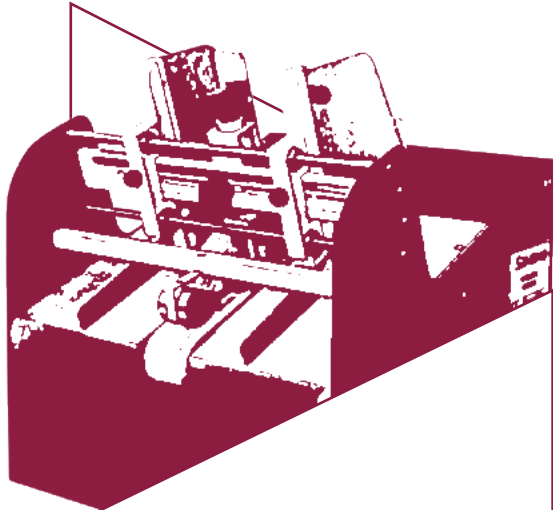
Business Process Streamlining & Optimization

Astropack can provide all services involved in engineering instruments for all types of industries, including:

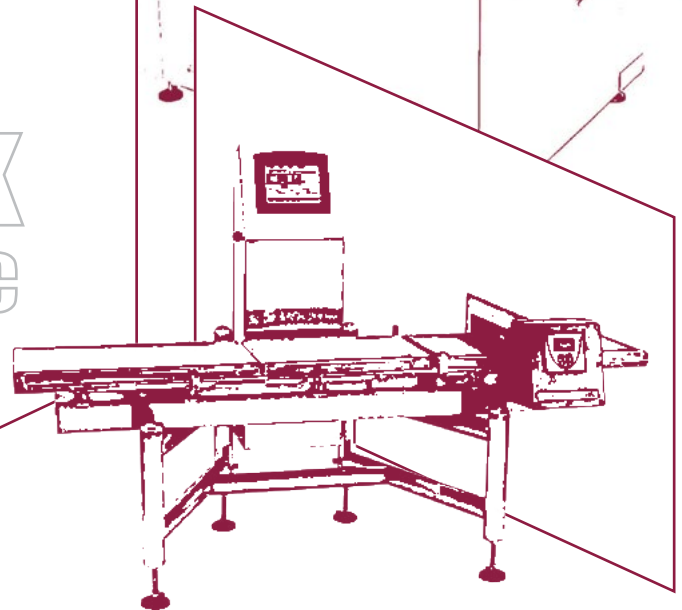
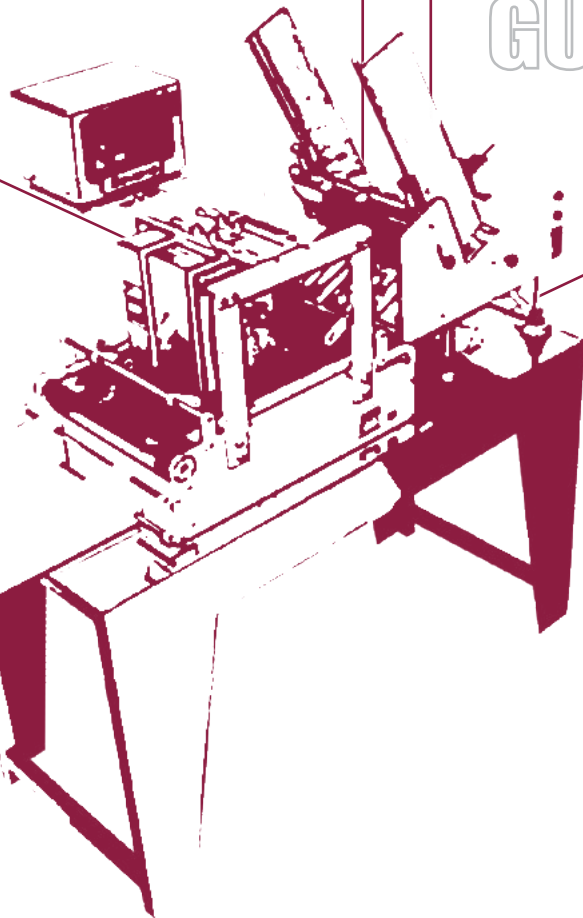
- Determining the type of instrument to use for each application.
- Establishing specifications for all types of required instruments, sensors, controllers and actuators.
- Preparing bid documents for product supply
- Analysing bids, engaging in discussions with bidders & providing recommendations to the client.
- Preparing installation documents for various instruments.
- Installing, calibrating, programming and certifying field equipment together with required certifications.

NOTES

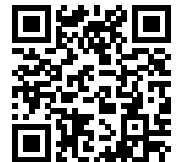
Handwriting practice lines consisting of 20 horizontal dotted lines.



ASTROPACK GULF LLC



Industrial Inkjet Printers, Thermal Transfer Printers, HP industrial Carton coding printers, Laser Coding Machines, Inspections Systems, Metal Detection, X-Ray Inspection, Check-weighing machines, Flow-wrappers, Packaging Machines, Consumables, Spares... etc.



P.O. BOX 8787 | Al Jurf | Ajman | UAE

+971 6 749 4981 +971 6 749 4982 info@astropackgulf.com

