













ASTROPACK
GULF LLC

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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
 - Saverna 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
- Endline packing solutions:
 - Filma Stretch Wrapping Machines
 - Carton Sealers/strappers

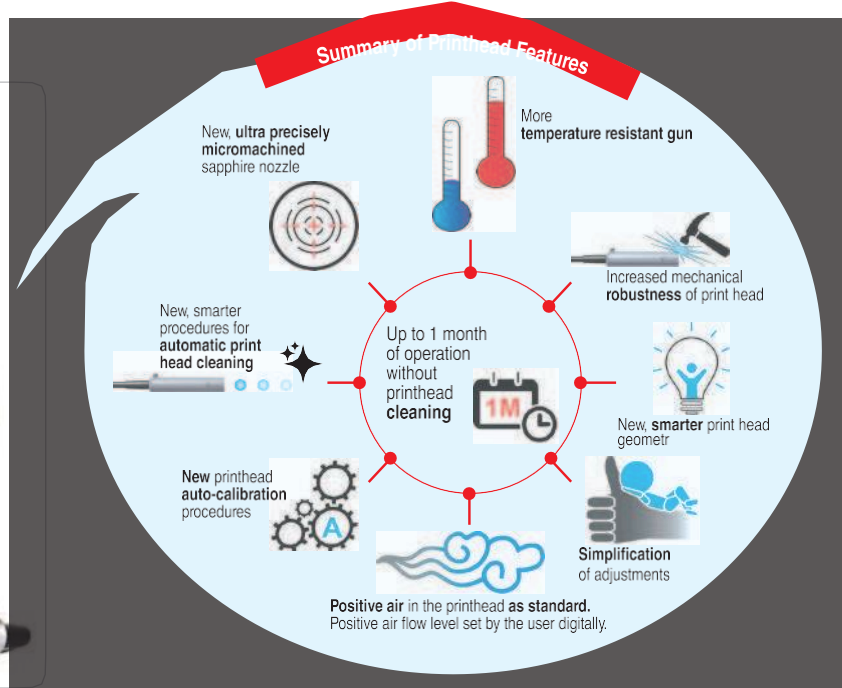
Feel free to contact us for any packaging query and for budgetary or formal quotes.

**GOODBYE
TO NOZZLE BLOCKAGE**

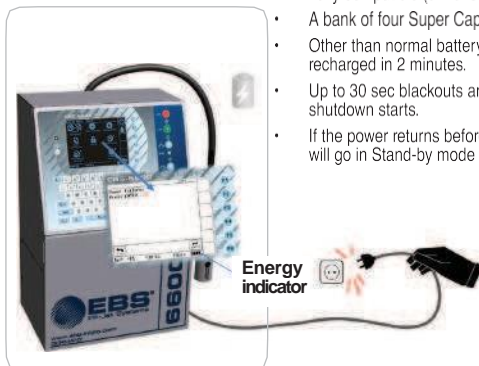


EBS-6900 Series

Continuous Ink-Jet Printer



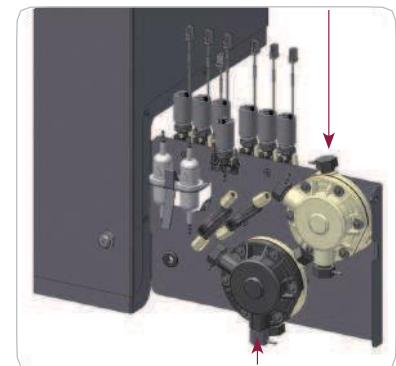
UPS Power Supply



- 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.

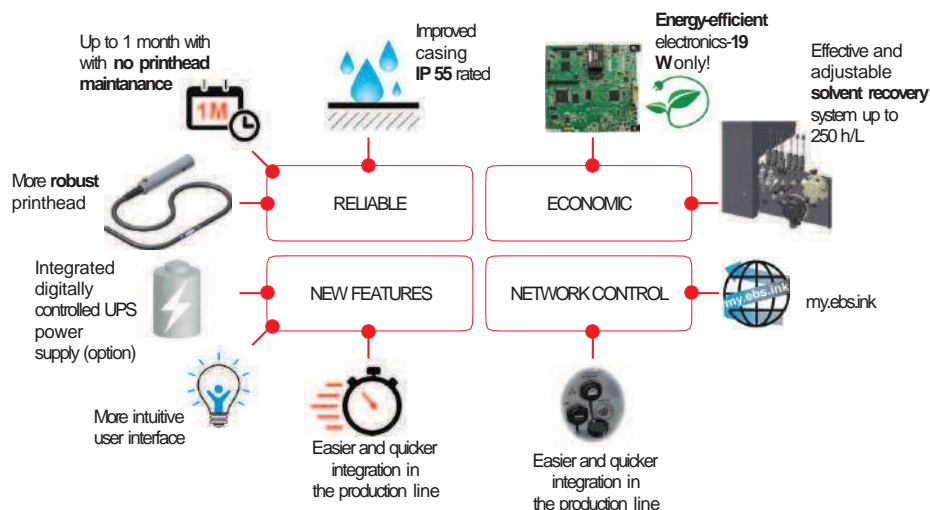
Ink System

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



EBS-6500 Series

Continuous Ink-Jet Printer



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

16 dots - 2 lines Version „MINI“	•
25 dots - 3 lines Version „MIDI“	•
32 dots - 4+ lines Version „MAXI“	•
Special model „Micro“	○
Graphics / barcodes	•
Available barcodes	EAN-8, EAN-13, Code 128, EAN-128, Code 128B, ITF8, ITF 14, Datalogic, 2/5 Bars, Interleaved, Code 39
2D Code ECC200	
International fonts	Cyrillic, Arabic, Japanese, Chinese, Korean and others
RS232 interface	•
Positive air in printhead (anti-polluting)	•
Special channel for external data	•
Windows® Software EdGraf® for message management, parameters and status of printer	optional
Dye-based ink black	•
Dye-based inks (varying colours), special inks,	○

soft-pigmented inks	○
Pigmented inks	•
Umbilical cord	4m (13.1ft) [opt. 6m (19.7ft)]
Printhead position	any
Print speed	up to 1488 char/sec, matrix 7x5 <=> 595 meter/minute (1950ft/min)
Font matrix (depending on printer version)	5x5, 7x5, 9x5, 11x8, 12x6, 12x7, 14x9, 16x10, 16x14, 21x15, 32x18
Keyboard layout Arabic oder Kyrillic	•
Message memory	1000 messages (2000 optional) expandable memory
Electricity consumption	dynamic < 30W
Installation hanging or standing	
Weight (w/o fluids)	12.9 kg (29.4 lbs)
Dimensions (HxWxD)	435 x 300 x 202 mm (17.1" x 11.8" x 8")



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	- +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		



- Easy handling
- Robust design
- High-capacity memory
- Capable of graphics
- Unbeatable efficiency

Single-line coding on packaging has never been so easy!

Technical Parameters

Print height	6 - 11 mm with 7-nozzle printhead 6 - 27 mm with 16-nozzle printhead
Printhead position	any
Memory	30 texts with up to 1300 characters each
Print speed	600 vertical rows / sec. up to 60 m/min.
Special characters	National (diacritical) characters, graphic characters for information, warnings, transport purposes etc.
Special registers	Date and time in any format, expiry date, incremental counter, decremental counter
Programming	- Software for editing text and parameter, compatible with Windows® XP/Vista/7 or programming via Terminal "T200" - data transfer via provided connection cable
Ink consumption	ca. 2.000.000 characters per 1 litre (7x5 matrix)
Weight	< 1.600 g excluding the ink bottle
Elements of the printing system	Printhead, junction box including power supply and photocell, USB cable from PC->EBS 230, 1 ltr. ink system, printhead holder, basic holder system, PC software and user's manual on a CD-ROM
Nozzle diameter	150 µ
Simulation of Windows® fonts	Possible, limited to the vertical print resolution
Compressed air supply	Not required!
Ink bases	Water; Ethanol; Acetone; MEK

Timing	Internal generator or optional shaft encoder (for varying conveyor speed)
Power supply	100 - 240 V~ protection rating IP54





- Easy to handle
- Replaces expensive labels
- Complete coding solution with maximum flexibility

Editing & printing capabilities

- **State of the art, all-in-one system for high quality printouts on all porous surfaces. Replaces expensive labels. Best quality at all times.**
- Lightweight, compact and easy to mount.
- Web (www) editor allows editing via Ethernet interface
- LCD 5.7" color display with touch screen for printer control, file management & maintenance with preview function of message (Editing via PC)
- Works virtually under any operation system (Windows®, Linux®, Mac®) - no need to install printer-specific software – only general purpose Firefox® web browser is required,
- Fixed text + very flexible types of variable text (counters, date (including offset and shifts), expiry date, text files, RS 232 data)
- TrueType® fonts with possibility of installing unlimited number of additional user fonts
- Graphics / logos with free resizing, PNG file import function
- Text / graphics / barcode rotation
- Horizontal rotation (reverse print) / vertical rotation (upside down print)
- Useful online help including a number of illustrations and animations
- Automatic support for making test printouts while editing
- Unique intensity regulation for different porous surfaces
- Automatic conveyor parameters detection
- Multi-level user management with password protection
- Waste ink collector (maintenance system)

Technical Parameters

Printer Performance

High Resolution Print Head - Ink-Jet technology

- Number of nozzles: 510
- Nozzle pitch: 141.1 μ m (approx. 1/180 inch)
- Vertical resolution: 180 dpi
- Active printing height: 71,8 mm (2.827 inch)
- Firing frequency: 7 kHz
- Printing speed at horizontal resolution:
360 dpi: 30 m/min (98.42 ft/min)
180 dpi: 60 m/min (196.85 ft/min)
90 dpi: 120 m/min (393.70 ft/min)
- Ink: oil ink and others
- Drop volume: 35 pl
- Intensity control (of whole printout)
- Print distance from nozzle to substrate (for best quality of printouts): maximum 4 mm
- Ink bottle capacity: 0.5 l (allows for up to 0.5 million printouts)
- project resolution: 500 x 500, 10% ink coverage)

Memory for user data / projects storage

- USB pendrive: factory installed 1 GByte
- File systems: FAT, FAT32 (possibility of back up data with standard PC computer)

Barcodes

- Numeric: EAN codes, Code 11, Code 25, Codabar, Leticode and others
- Alphanumeric: Code 39, GS1-128 (UCC/EAN-128), Code 128, 2D:Data Matrix, 2D:MicroPDF417 and others

Communication, connections

1x Ethernet:

- TCP/IP
- Web server
- Network neighborhood (for pendrive network share)

2x USB 2.0 connectors:

- Storage memory (factory installed pendrive)
- Other optional EBS equipment (RS-232 converter, signal lamp, etc.)

Triggering / synchronization

- Built-in product detector (photocell)
- External product-detector connector (optional)
- External shaft encoder connector (optional)

Dimensions and weight

Size:

- Length: 420 mm (16.54")

- Weight: 160 mm (6.30")

- Height: 210 mm (8.27")

Weight: 4.8 kg (2.18 lbs) - with 0.5 l ink bottle

Cabinet

Stainless steel

Protection class (BS EN 60529): **IP 54 / NEMA13**

Environment

Operating temperature range: 5 - 40°C (40 - 104°F)

Relative humidity: up to 80% non-condensing

Power supply (included in cabinet):

- AC 100-240 V, 50-60 Hz

- 0.95 - 0.45 A / max. 24 W - low power consumption



Technical Parameters

	53-70 I	53 C
Print Area	Width 53mm Length 70mm	Width 53mm Length 125mm
Resolution	12 dots/mm (300dpi) horizontally and vertically	
Print Speed	Up to 600mm / second 700mm / second	
Production	350 prints/min (in one line) 500 prints/min	
Thermal Ribbon	600 meter (656 yds.) loaded ribbon	
Memory	5000 text memory USB standart	
Power Supply	110/220/240 V 50/60 Hz	
Air Supply	min. 1 bar - max. 4 bar	
Wight (printer)	9,4 kg	
Dimensions	180mm H x 250mm W x 210mm D	
Outputs	Machine on error (failsafe) - image ready, power on, print per minute etc	
Ribbon Widths	22 mm and 35 mm. - 55 mm. (0,9" - 1,4"-2,2")	
Operating Temperature	5° - 50°C (41° -104°F)	
Control Panel	7" Touch Screen Panel	

Fields	Real DATE/Time, Text, Barcode, 2D Barcodes, Logo, Counter (Serial No), Shift Code, Shape, Currency
Barcodes	1 D Barcodes, 2 D Barcodes, Datamatrix EAN- 8,EAN-13,EAN-128, CODE 128, CODE 39, 1-2 of 5, CODE 93, CODE BAR DUN 14, ISBN, UPC-A, UPC-E 2D Datamatrix, QR Code, AZTEC Code, PDF417
Communications	RS-232 (PC), LAN, USB Multi-language (14) support standard
Pc Programmes	SAYASIS Label Program



Technical Parameters

	107-75 I	107 C
Print Area	Width 107mm	Width 107mm
	Length 75mm	Length 125mm
	Width 107mm Length 125mm	Optional
Resolution	12 dots/mm (300dpi) horizontally and vertically	
Print Speed	Up to 350mm / second 350mm / second	
Production	200 prints/min (in one line) 250 prints/min	
Thermal Ribbon	600 meter (656 yds.) loaded ribbon	
Memory	5000 text memory USB standart	
Power Supply	110/220/240 V 50/60 Hz	
Air Supply	min. 1 bar - max. 4 bar	
Wight (printer)	11,6 kg	
Dimensions	210mm H x 210mm W x 255mm D	
Outputs	Machine on error (failsafe) - image ready, power on, print per minute etc	
Ribbon Widths	55 mm. 110 mm. (2,2" - 4,28")	
Operating Temperature	5° - 50°C (41° -104°F)	
Control Panel	7" Touch Screen Panel	

Fields	Real DATE/Time, Text Barcode, 2D Barcodes, Logo, Counter (Serial No), Shift Code, Shape, Currency
Barcodes	1 D Barcodes, 2 D Barcodes, Datamatrix EAN- 8,EAN-13,EAN-128, CODE 128, CODE 39, 1-2 of 5, CODE 93, CODE BAR DUN 14, ISBN, UPC-A, UPC-E 2D Datamatrix, QR Code, AZTEC Code, PDF417
Communications	RS-232 (PC), LAN, USB Multi-language (14) support standard
Pc Programmes	SAYASIS Label Program



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.)



APEX 500 Metal Detector
Multi/Coil Architecture

Advanced detection of metal
contamination in package and
process applications



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

Thermo Scientific NextGuard

X-Ray Inspection System



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

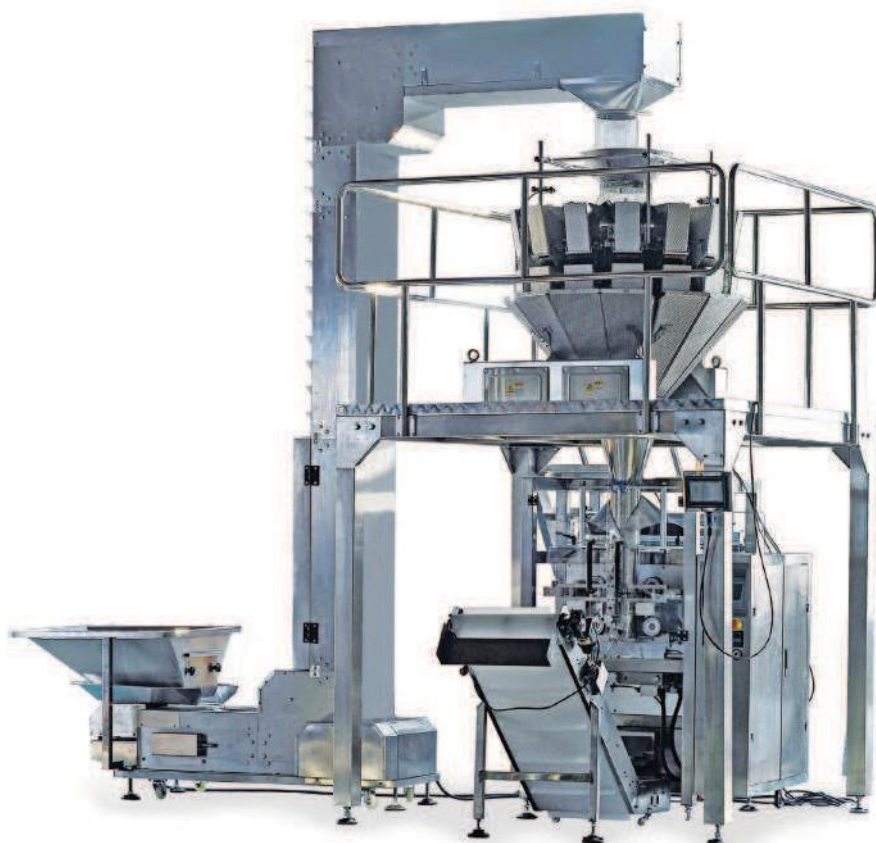
- Touch Screen GUI Control Unit interface for local job creation and modification
- Alphanumeric Keyboard Control Unit interface for local job modification
- IP 66 / NEMA 4 enclosure
- Scanning Head Mounting Extension Modules
- Product Detector and Shaft Encoder
- Fumes / Dust Extractor (with Active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



Powder Packaging Machines



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

Table Top Range



T2

Cover: Flat
Seal: Single
Pump Capacity: 4 m³



T3

Cover: High
Seal: Double
Pump Capacity: 8 m³



T4

Cover: High
Seal: Double
Pump Capacity: 16 m³



T5

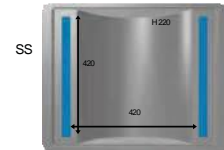
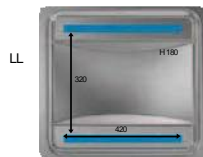
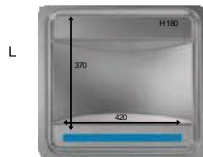
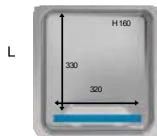
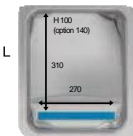
Cover: Flat
Seal: Double
Pump Capacity: 21 m³



T6

Cover: High
Seal: Double
Pump Capacity: 16 m³

Seal Configurations



Options

Filler plates / Liquid filler plates
Digital time control
Sensor control
Soft Air
Seal
Gas
Pump upgrade
Voltage according to Pump upgrade



Double Chambers



D1

Cover: Double
Seal: Trenn (pre-cut) / 1-2 / Bi-Active
Pump Capacity: 63 m³



D3

Cover: Double
Seal: Trenn (pre-cut) / 1-2 / Bi-Active
Pump Capacity: 160 m³



D4

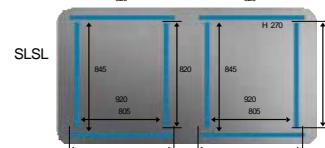
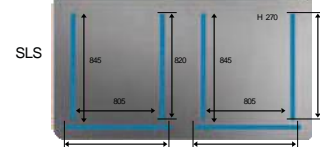
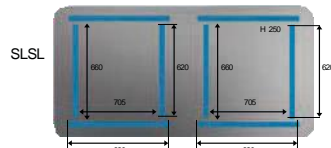
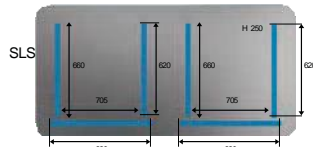
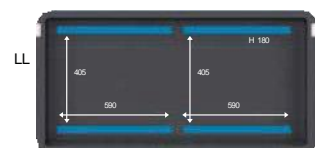
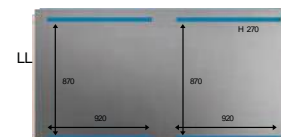
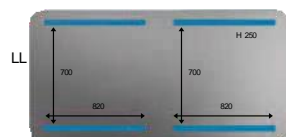
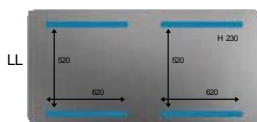
Cover: Double
Seal: Trenn (pre-cut) / 1-2 / Bi-Active
Capacity: 160 m³



D6

Cover: Double
Seal: Trenn (pre-cut) / 1-2 / Bi-Active
Capacity: 40 m³

Seal Configurations



Options

Filler plates / Liquid filler plates
Digital time control
Sensor control
Soft Air
Seal
Gas
Pump upgrade
Voltage according to Pump upgrade



Professionals in FOOD & NON-FOOD Packaging

Professionals in 80 countries worldwide choose Henkovac as their number 1 source for vacuum packaging machines. Henkovac offers a complete product line that fulfills the vacuum packing needs of small to medium size food processing and food preparation companies in many industries.

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"/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



Technical Parameters

OMAG High Speed Sachet Line

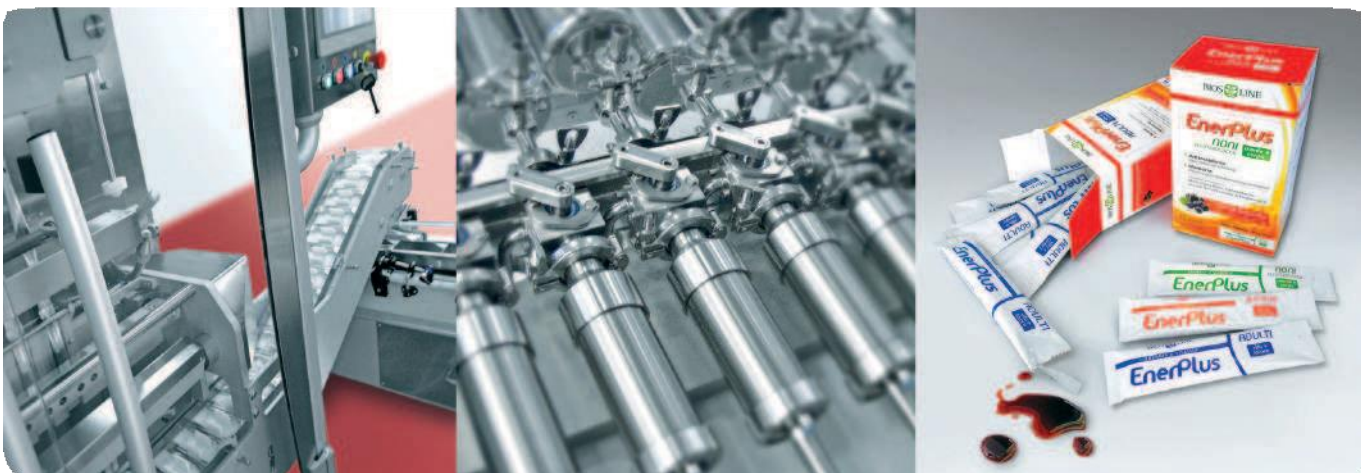
Composed by of N.2 Omag sachet machine Mod C3/9, 9 each and N.1 Intermittent Cartoning Machine to achieve a total real production rate up to 1350 sachets/min.

SACHETS Display Box

Final presentation of N. 14 triplex sachets into a display box. The Sachets number can be changed according to Customer's needs.

Sachet & STICK-PACK Machine

For packing Ketchup, Mayonnaise, Sugar, Powders etc...





AUTOMATION

We provide end to end
custom **ROBOTICS**
SOLUTIONS.



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.



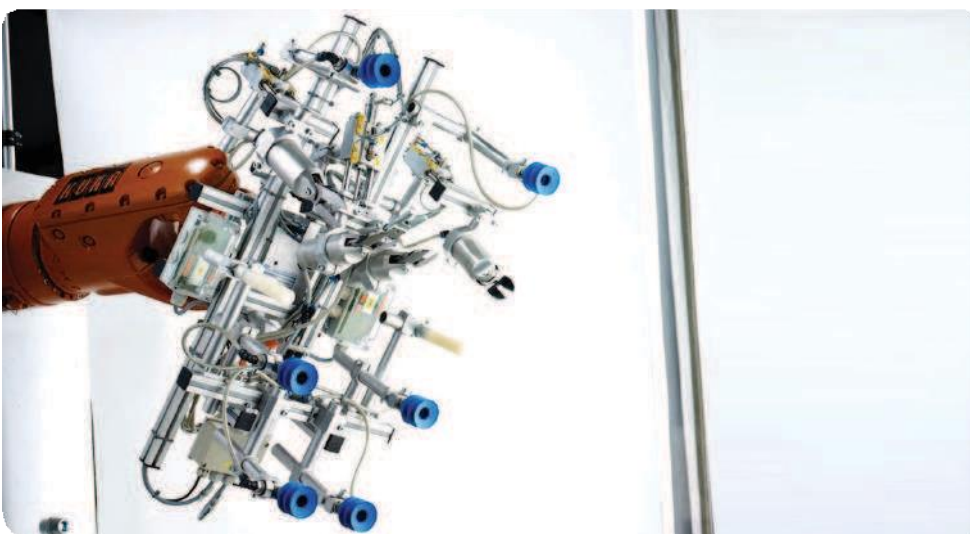
Robotic Cells Design

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.



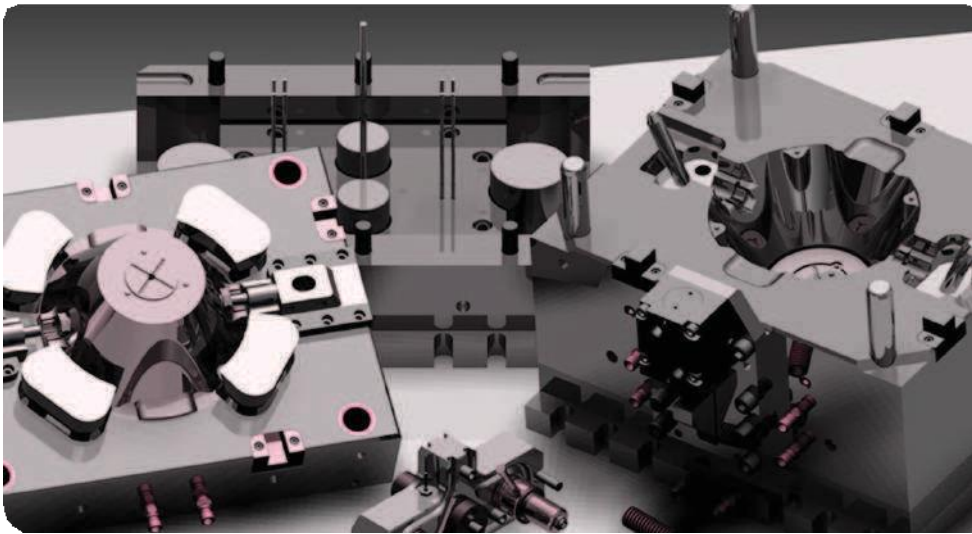
Robotic Tools Design

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.

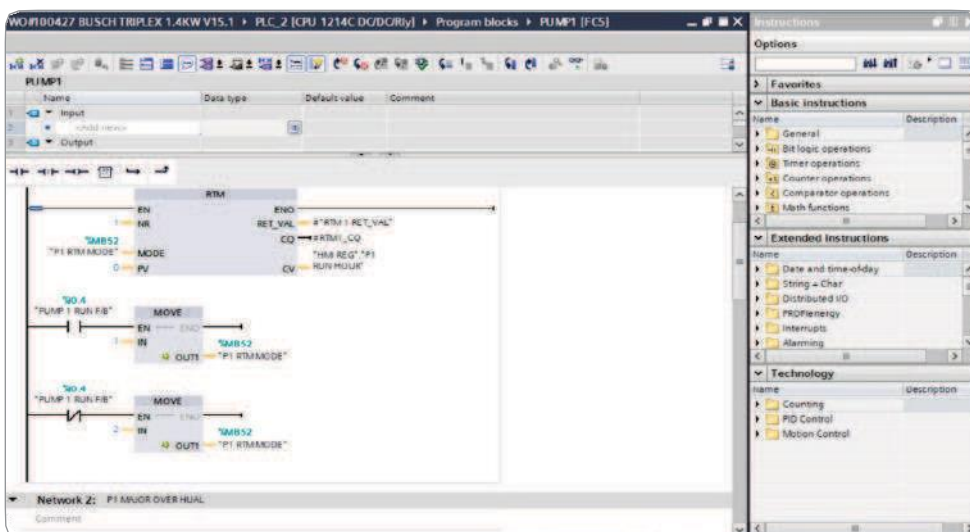
Our expertise in system mechanics complements our expertise in electrical and pneumatic control to provide clients with an optimal solution.



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.

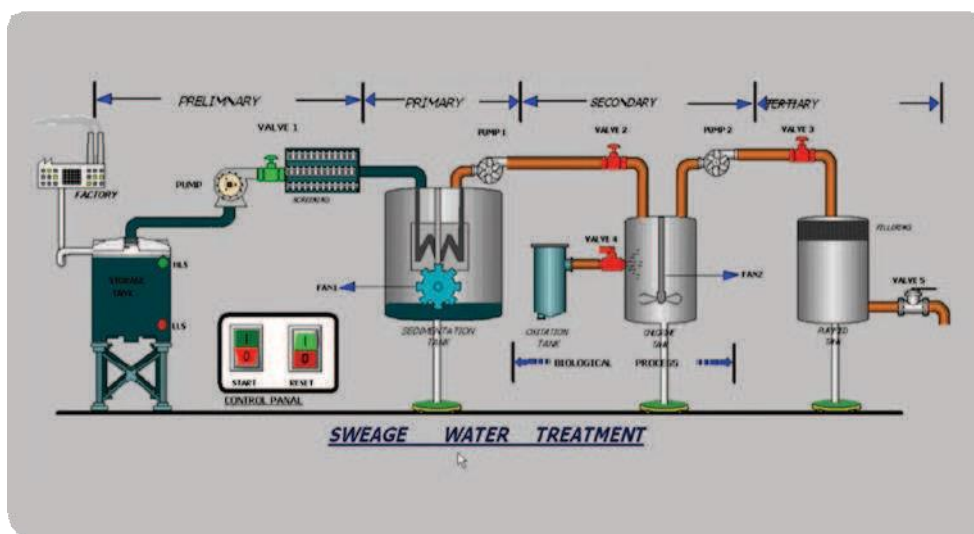


Systems & Equipment Programming & Configuration

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.