ASprom

RELIABLE SOLUTIONS
OF PRODUCTION TASKS

TRANSPORTER SYSTEMS
INDUSTRIAL MACHINERY

www.aspromservis.ru

ASprom has been in the INDUSTRIAL MACHINERY **supply and service market** since **2011**.

All our solutions focus on *our customers* and aim at **improving** *their business performance* regardless of their maturity.

OUR BUSINESS LINES

- **Manufacturing transporter systems of different complexities for moving cargos, and automating processes;**
- **Developing automatic labeling solutions based on industrial printers, applicators or print and apply labelers;**
- **Automating merchandise batch loading areas, delivering case erectors, corrugated board box sealers, and pallet winders;**
- **Programming industrial robots;**
- **Designing and commissioning code reading and product identification systems;**
- **Delivering compressor machinery and air treatment systems.**

Our business relies on the INTEGRATED APPROACH. We design and deliver equipment, provide integrated warranty and post-warranty, technical support, and repair services.

- end-to-end production
- integrated metalworking machine tools
- proprietary design engineers, SCADA engineers, and service professionals
- warehousing areas with stock-holding of components and consumables
- 10 ЛЕТ — the industrial equipment implementation background in various industries throughout Russia and CIS countries

Today **1500** OUR SOLUTIONS in various industries are an INTEGRAL PART of our customers' businesses

Designed **4,000 m** of CONVEYORS

Upgraded **600** PRODUCTION FACILITIES

Commissioned over **550** INDUSTRIAL PRINTERS

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For details, please find our catalog at **aspromservis.ru**

Conveyor Systems

ASprom LLC produces complex **transporter systems** and cargo handling solutions.

Our **design department** develops our conveyor systems and transforms them into high-precision 3D models for further manufacture at our production facility. We use integrated metalworking **machinery** ensuring timely production of high-quality conveyor components. Our **SCADA department** develops and assembles control cabinets, and creates software and visualization systems for them.

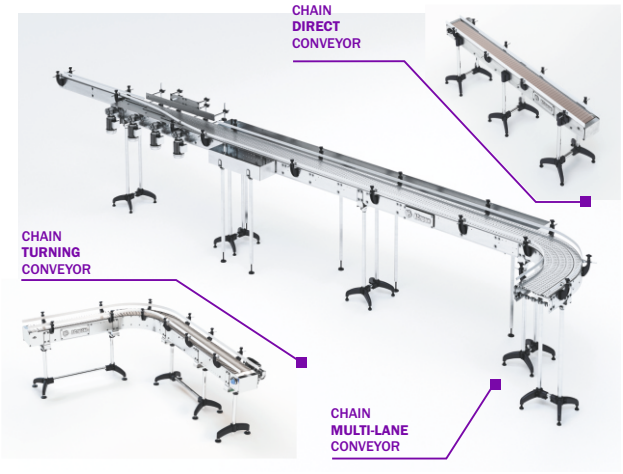
Our **production facility** allows us to reduce our delivery periods and benefits the cost of our finished products.

CHAIN Conveyor

The conveyor is designed for handling numerous cargos such as glass and polyethylene bottles, aluminum and tin cans, corrugated board boxes, etc.

Scopes:
beverage bottling lines, milk processing plants, warehouse transport systems, fruit and vegetable processing, canned food production, pharmaceutical plants.

Our professionals design and commission direct and turning laminated conveyors. Our conveyors may have one or more lanes for joining and separating cargo flows.

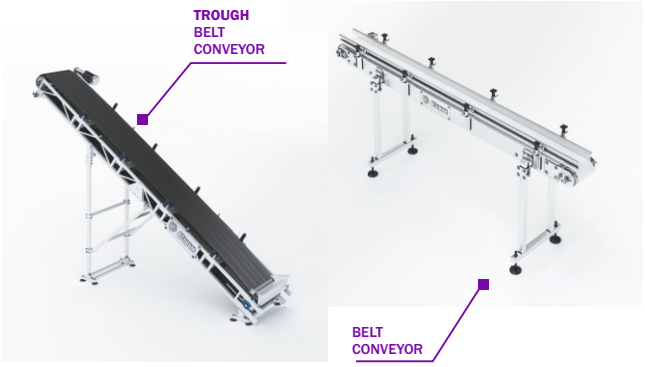


Chain conveyors can be easily combined with other transporters such as tack conveyors, roller conveyors and accumulator tables. Length and width specifications depend on production processes and specifications of our customers. Our designs feature adjustable cargo handling heights and speeds. Our turning conveyors have minimal turning radii and various design options: S-shaped, O-shaped, C-shaped, and U-shaped. Our conveyor systems feature skirting and enclosing structures of the required heights.

BELT conveyor

Scopes:
handling bulk and individual products, individual cargos, boxes, and various parts.

Our belt conveyors can handle almost any cargos. They boast high reliability and performance. Depending on your production conditions as well as dimensions, weights, physical and chemical properties cargos you handle, our professionals choose the best belt materials such as PVC, polyurethane (PU), rubber fabric, or silicon.



Our mobile belt conveyors on wheel supports are used widely for mechanizing handling operations at warehouses and shops. They may be put into storage if not required. **Belt conveyors may be** horizontal, inclined, Z- or V-shaped.

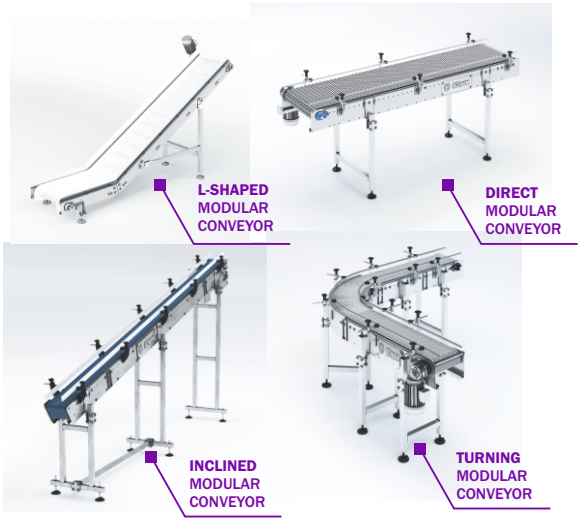
PNEUMATIC conveyor

Scopes:
pneumatic conveyors are in demand at medium and high performance lines for bottling into polyethylene packaging in food, perfume, pharmaceutical, medical, and chemical industries.

Overhead conveyor advantages:

- Compatibility with various packaging volumes
- Automatic operation with no operator interference
- Loading and unloading of conveyors in the course of operation with no additional stops
- High performance at minimum costs
- Reasonable usage of workspace with aboveground installation allowing to position other equipment in the shop

Our pneumatic conveyors are used to transport pet-bottles from the blowing machine to the bottling unit as the weight of the finished bottle is small and it is highly unstable for gravity feed systems. Compressed air is supplied into the transportation compartment via guides. Bottles suspended by their necks are driven in the specified direction with air discharged by the fan into the conveyor chassis.



MODULAR BELT conveyor

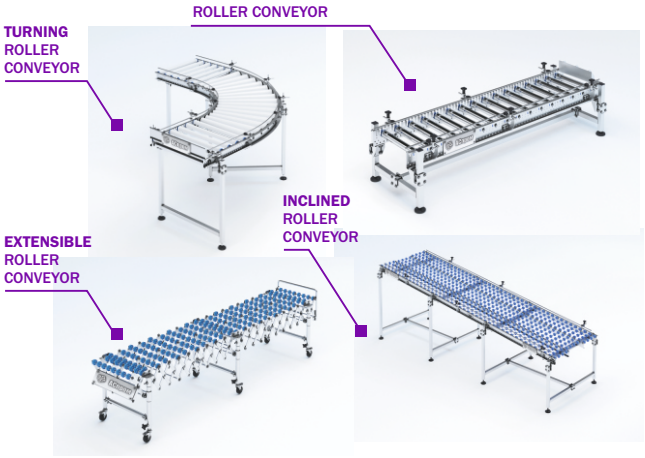
The conveyor features a working surface of plastic elements interconnected with a pin (axle). This cargo support type allows to design both floor or overhead straight or curvilinear lines in various directions.

Scopes:

- General-purpose modular conveyors are used for handling individual or batch-packaged products
- Modular belt versions in accordance with food safety standards allow to use them for transporting foodstuffs without primary packaging

Modular belt conveyor advantages:

- Operating temperatures from -40 °C to +105 °C
- High resistance to corrosive media and active solution washing
- Possibility of creating complex movement trajectories both in floor and overhead versions
- Easy decontamination
- Quick installation, user-friendly maintenance, easy replacement of damaged sections with no need for replacing the entire belt



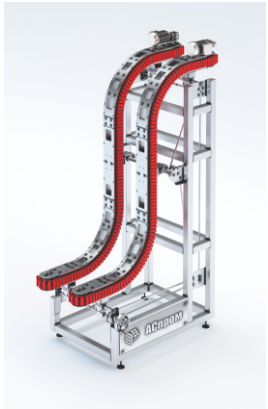
ROLLER conveyor (roller table)

Scopes:

Roller tables are used at production lines and warehouses for horizontal or slightly inclined movement of products within a room or between shops. Roller conveyors are designed for transporting construction materials, crates, boxes, pallets, and major parts.

Roller tables move individual cargos with flat, ribbed or cylindrical surfaces. Roller table dimensions are defined individually for each project.

Driven roller conveyors are used when constant cargo movement is required or when cargos must move horizontally or must be lifted slightly. A generic roller conveyor consists of sections 2 to 3 meters each. Depending on its configuration, the route may include curvilinear and collapsible sections, turning circles and point switches. The width of the roller always exceeds the width or diameter of the cargo somewhat, and the distance between the rollers is always less than half length of the cargo. Gravity roller tables (inclined by 2 to 5 degrees) have rollers rotating freely under gravity of the cargo being moved



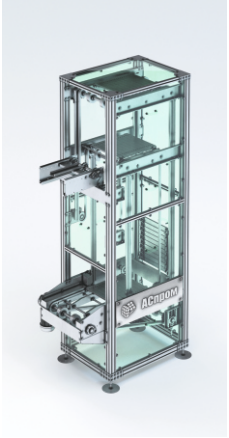
GRIPPER conveyor

Scopes

- Restricted spaces requiring conveyor routes between shop floors
- Moving fragile cargos such as slippery packaging
- Creating new transit lines while preserving process passages for employees
- Lifting, lowering or turning products within the process framework
- Changing cargo position by 360° for labeling bottom packaging
- Empty bottle flushing and purging lines
- Moving glass cans, bottles, tin cans, plastic canisters, boxes, etc.

Gripper conveyors are designed for inter-level movement or changing product positions / movement directions. Two parallel gripper belts with special rubber clamps to hold the cargo. The belts hold the cargo and move it along the set route. Gripper conveyors may have integrated compressed air purging sections, or flushing units. The conveyors move same-sized products simultaneously. The cargo width ranges from 8 to 30 cm.

ELEVATOR CONVEYORS (lifting conveyors)

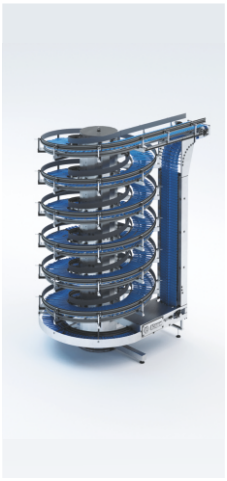


Scopes:

Moving comparatively small cargos in boxes from floor to floor.

Elevator conveyors are designed for moving cargos vertically (lifting/lowering). The cargo is delivered to a special platform lifted or lowered depending on equipment settings. Lifting conveyors may have up to several dozen stops. Elevator conveyors are easily compatible with automatic transport systems for loading or unloading products. Lifting conveyor equipment is designed to load and unload boxes on opposite sides (type Z) or one side (type C). Depending on process requirements, designs of cargo bearing platforms may vary. Lifts allow maximizing space saving at warehouses or workshops. The equipment may be adapted for current production needs and integrated into existing equipment systems at your plant or warehouse.

SPIRAL conveyors



Scopes:

Spiral conveyors are used at food production facilities in lines with long natural cooling before packaging of bakery and confectionery products, for shock freezing of semi-finished products before transportation, packaging and storage. conveyors are used at food production facilities in lines with long natural cooling before packaging of bakery and confectionery products, for shock

Spiral conveyors are used as accumulators or buffers between machines. They may be used at one of the process stages such as cooling or drying as well as simple lifting and lowering products. Helical design allows to lift / lower cargos to / from great heights. The need for such conveyors is especially pronounced at production areas with lines of various length and with micro stops. Small turning radii of conveyors allow installing them within small spaces. Spiral conveyors are integrated into any automated lines with various products.

STORAGE TABLES

Scopes:

- Supplying bottling lines with empty packaging
- Stacking products for manual sorting and thinning
- Labeling / tagging individual products
- Stacking packaging before supplying packaging lines

Storage tables ensure homogenous distribution of products flow during movements between production operations. Feed tables are installed at line starts for supplying production areas with empty packaging Interoperable stackers ensure homogenous product flows between process operations. Tangential (reverse) stackers may fit in small space to maximize usable table areas. Exit tables accumulate finished products to ensure continuous operation of primary lines. Transporting elements are circular and rotating. Stainless steel usage complies with food industry regulations and allows direct contact with foodstuffs.

Stacking tables have banks and guides for receiving or supplying products. Framework foundation heights are adjustable. Rotation speeds are synchronized with conveyor line movement speeds.

Pallet Conveyor Systems

Scopes:

Moving cargos at warehouses and production lines.

Conveyor systems are used for transporting and handling palletized cargos Cargos move longitudinally or laterally Combined pallet conveyors include several **kinds** of conveyors:

Roller pallet conveyors ensure direct horizontal movement of cargos lengthwise in the direction of travel. They act as trunk conveyors for short-distance movement of cargos within conveyor systems.

Chain pallet conveyors ensure direct horizontal movement of cargos width-wise in the direction of travel.

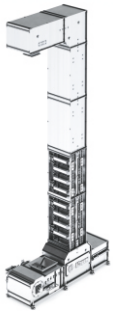
Turn conveyors redirect cargos by changing the transportation angle by 90 to 180 degrees. This kind of equipment may be roller or chain one depending on the operating process.

MESH BELT conveyor

Scopes:

- Confectionery production
- Meat processing plants
- Fish and seafood glazing
- Bakery plants
- Washing and packaging fruits and vegetables
- Manufacture and packaging of snacks and seeds

Mesh belt conveyors are used in food industry for homogenous heating, cooling, cleaning, drying and flavoring of products. Plants often require equipment capable of operating in wide temperature ranges. Mesh belt conveyors are well-suited for this with their cargo moving and bearing elements made of metal mesh. The conveyor operating principle is similar to that of the belt system. The belt moves on guide rails or rollers. The conveyors are made of stainless steel to meet sanitary requirements, their reducer motors have safety covers, and their electrical components are sealed tightly. Systems have trays for collecting product residues, which fall in the course of movement. Taps allows draining liquids accumulating in trays.



BUCKET conveyor

Scopes:

Vertical transportation of bulk cargos. Construction and construction material production, chemical industry, mining industry, metallurgy, glass and ceramics production.

Bucket conveyors are conveyors for moving fine and bulk products at 90 degrees. Buckets attached to roller or sleeve driven chains are tools of such conveyors. Products enter buckets from below and buckets turn by 360 degrees when arriving to unloading locations. After unloading, buckets go down for new material.

The conveyors have convergence systems for decreasing gaps between their adjacent buckets. Products may be lifted up to 4 meters at the maximum movement speeds of 6 meters per minute (adjustable on request). Conveyors may be either 2- or C-shaped. Conveyor bottoms have drawers for collecting product leakages. Conveyors may operate in enclosed temperature at +10 °C to 35 °C and relative humidity not exceeding 80%.

CONTROL CABINETS

Control cabinets ensure that equipment operates within its set conditions. Systems are controlled with required software algorithms.

Key functions of control cabinets:

- Synchronizing operation of various conveyor system assemblies
- Starting and stopping equipment smoothly, and protecting it against excessing torques
- Controlling equipment with special controllers (remote control is possible)
- Controlling line operating speeds and ensuring reverse movement of conveyor belts
- Consolidating and separating production flows, aligning products in lines, and sorting products
- Reporting startup or shutdown of conveyors, emergency protection (interlocking startup of equipment or its individual parts)
- Protection against voltage fluctuations
- Engaging standby equipment on failure of primary one to minimize equipment downtime
- Visualizing production processes
- Transmitting information to operator equipment

Designs of control cabinets take into account all operating parameters of equipment, connected equipment, transmitted signal types, and numerous other factors. ASprom engineers configure real-time equipment control and ensure remote monitoring of equipment statuses.

INSTALLATION

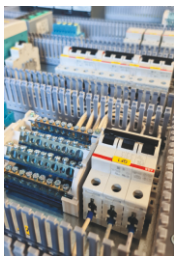
- we install control cabinets
- we train your employees to operate automation systems
- we provide maintenance services
- for automation cabinets we manufacture

DESIGN

- we survey facilities requiring automation
- we develop and coordinate design specifications
- we develop design documents

ASSEMBLY

- we assemble automation cabinets and control stations under generic and individual specifications

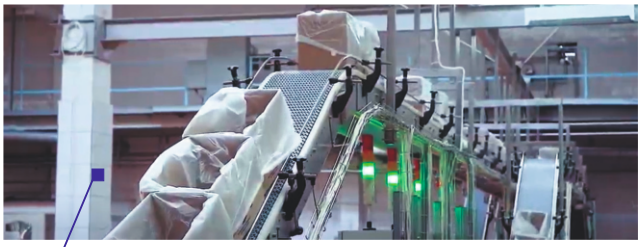

SUCCESSFULLY COMPLETED CONVEYOR SYSTEM PROJECTS

DAIRY INDUSTRY AND ICE-CREAM PRODUCTION
Integrated product and corrugated packaging movement solutions (Finnpack, Doypack, Pure-Pack) and corrugated packaging

Moving corrugated boxes from stacker operators to warehouses Labeling and sealing boxes. The conveyor system includes a modular belt conveyor, a belt conveyor, and a elevator conveyor. The conveyor system is 40 meters long overall

The mobile conveyor system for movement and homogenous distribution of product flows without primary packaging.

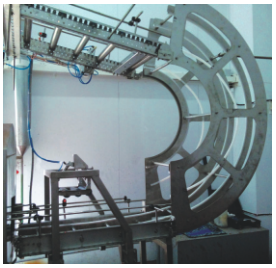
Automation of the dairy product packaging process based on the modular belt conveyor.



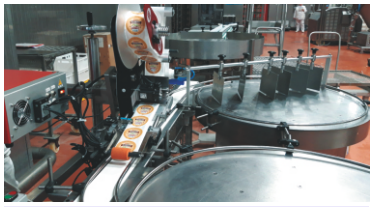
Cf. bottling line automation.

MEAT AND POULTRY PROCESSING
Integrated product and semi-finished product movement solutions

A three-tier conveyor system for supplying boxes into the packaging area for 15 product packaging stations.



A conveyor system for supplying crates into the washing machine.



A conveyor system for product labeling. The system consists of the feed table, belt conveyor, applicator, and stacking table.

The meat factory is located in Penza Region. Several conveyor system projects have been implemented. Automatic molding of corrugated boxes, separation of packaging flows and floor to floor movement of boxes. Supply of boxes to a three-level table for product packaging. Products move from the grilling machine to three cutting machines. Products move from the injector to cooking machines.

Cf. deboning and desinewing conveyor system

Deboning and Desinewing Conveyor Line.

Transportation of meat feedstock from the splitting station to operator work stations
Supply of empty trays to the cutting line
Removal of trays with meat feedstock

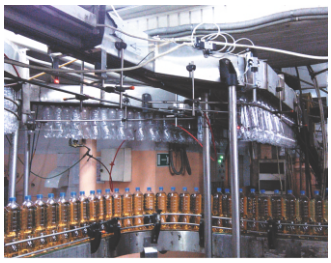
A mesh belt conveyor for moving semi-finished meat products after deep frying

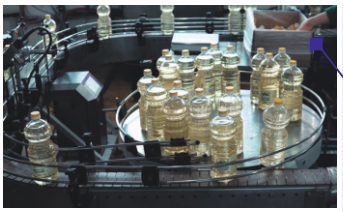
BOTTLING
Integrated empty packaging and bottled product transportation solutions

Automated supply of pet-bottles to bottling machines, product labeling, transportation to the batch packaging area, and labeling. Polyethylene packaging is supplied sequentially from two blowing machines. The system automatically determines which of the machines is operating currently and directs packaging from the operating machine to the bottling unit.

Pet-bottles packaging beverage production line

Pneumatic conveyor for transporting pet-bottles from the blowing machine to the bottling machine

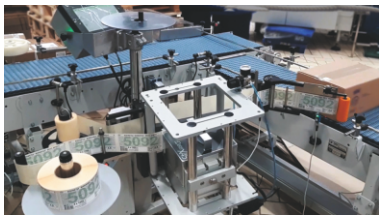




The pet-bottles labeling.
System includes the automatic applicator, chain conveyor, side rolling conveyor, and stacker storage table.

Cf. sunflower oil production automation

CONFECTIONERY PLANTS
Confectionery product transportation, and flow consolidation / separation solutions



Consolidating batch packaged product flows using modular belt conveyors. Products arrive to the unloading area from two sealing units. Labels with different information are applied to boxes in the course of movement.

The elevator for moving confectionery products to the batch packaging area.

Automated batch packaging area. The system consists of corrugated box molders and sealers, conveyors, and print and apply labelers.

The conveyor system for homogenous distribution of sweets among 5 wrapping machines.

Cf. implemented confectionery industry projects

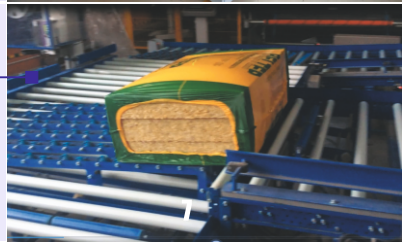
SOLUTIONS FOR OTHER INDUSTRIES

Egg conveyor

Door production conveyors

Belt conveyors for air circulation unit assembly

Conveyor system for consolidating product flows and moving pallets

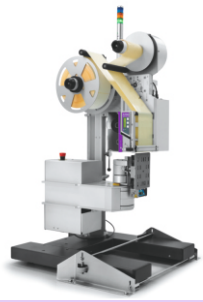


Box and pallet labeling

Print and Apply labelers for corrugated boxes and pallets

2200

2200 Pallet



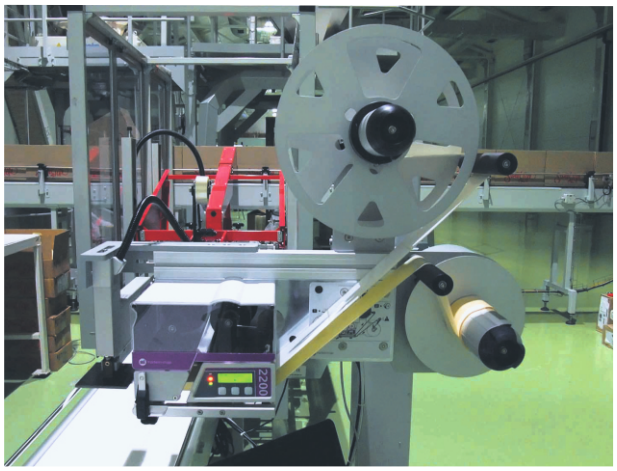
Specifications:

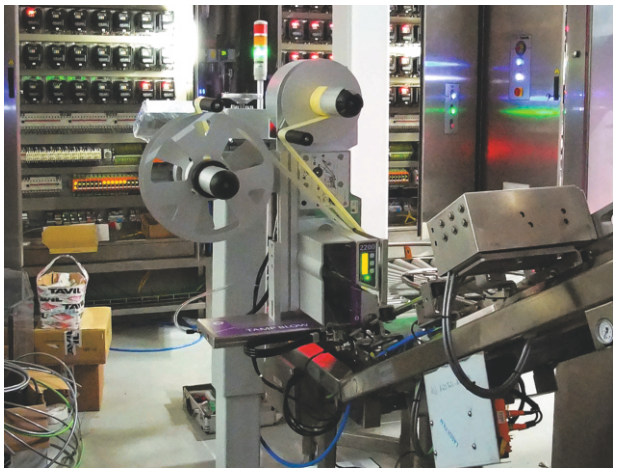
Printing methods	Thermal or thermal transfer printing	
Printing heads	2220: printed area width 58 mm, printing resolution 200 DPI (8 dots per mm) 2230: printed area width 54 mm, printing resolution 300 DPI (12 dots per mm) 2420: printed area width 104 mm, printing resolution 200 DPI (8 dots per mm) 2430: printed area width 108 mm, printing resolution 300 DPI (12 dots per mm) 2620: printed area width 168 mm, printing resolution 200 DPI (8 dots per mm) 2630: printed area width 162 mm, printing resolution 300 DPI (12 dots per mm)	2620: printed area width 168 mm, printing resolution 200 DPI (8 dots per mm) 2630: printed area width 162 mm, printing resolution 300 DPI (12 dots per mm)
Top Printing Speed	300 mm/sec	
Printing Capabilities	TrueType Font Loading Unicode Font Support Supported graphic formats: BMP, WMF, PCX, PNG, ICO, GIF, TIFF, JPEG Linear and 2D barcode support	
Media Specifications	Etched adhesive labels (reels) Labels are wound with their faces outside in standard reels Max label width: 178 mm Max label reel diameter 350 mm Inner core diameter 76 mm Thermal transfer printing ribbons are wound with their contact sides inside Ribbon length: 560 m Inner diameter of the ribbon reel 25 mm	Etched adhesive labels (reels) Standard label size: DIN A5 (148x210 mm) Labels are wound with their faces outside in standard reels Max label width 178 mm Max label reel diameter 350 mm, circa 2550 labels per reel Inner core diameter 76 mm Thermal transfer printing ribbons are wound with their contact sides inside Ribbon length: 560 m Inner diameter of the ribbon reel 25 mm
Label transfer specifications	Tamp, Blow, Wipe, and Tamp Blow applicators for applying labels to tops, sides and faces of packaging High speed printing on packaging faces The angular applicator allows attaching labels to two adjacent sides	The left- and right-handed versions of the applicator for labeling fronts or rears of pallets
Compressed air supply	6 bar, dry and clean	
Benefits	Wide range of label transfer options	Swing brackets for applying labels to two adjacent sides Printing and applying label to one or two sides at max 120 pallets per hour Simultaneous precise labeling of two adjacent sides of pallets ensures max performance

PRINT AND APPLY LABELER SCOPES:
printing and applying labels to corrugated boxes, batch packaging, bulky products, and pallets

For photos and videos of SUCCESSFULLY COMPLETED PROJECTS, please see

SUCCESSFULLY COMPLETED PROJECTS





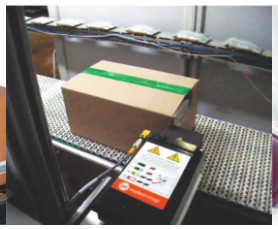
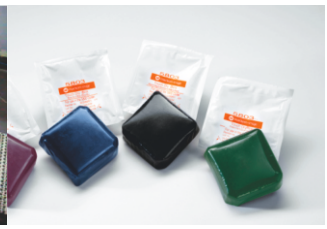
Box and pallet labeling

Bubble jet printers for large character labeling

	4500	4020/4700	5800	1050 (TIJ)
				
Specifications:				
Printing head types	7-nozzle printing heads for printing 1 line 13 or 24 mm wide 16-nozzle printing heads for printing 1 line 29 or 56 mm wide, or 2 lines 13 or 24 mm wide each		Address Jets: 256 Nozzles: 512	4 printing heads (50.8 mm) 2 printing heads (25.8 mm) 1 printing head (12.7 mm)
Resolution	Font Matrix: - 7N: 5x5, 7x5 -16N: 5x5, 7x5,12x7,16x10		200 dpi	600 dpi
Character Height	max 56 mm	max 64 mm / max 56 mm	max 65 mm	max 50.8 mm
Printing Speed	max 60 m/min	max 90 m/min	density: 1; DPI: 150 x 200; speed 120 m/min density: 2; DPI: 300 x 200; speed 60 m/min density: 3; DPI: 450 x 200; speed 40 m/min density: 4; DPI: 600 x 200; speed 30 m/min density: 5; DPI : 750 x 200; speed 24 m/min	max 201 m/min
Printing Capabilities	Printing texts, time, dates, shelf lives, shift numbers, counters, logos (png or bmp) Support of TrueType and BDF fonts	Printing texts, time, dates, shelf lives, shift codes, counters, etc. Support of TrueType and BDF fonts	Barcodes (1D and 2D): ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, Datamatrix, RSS linear, RSS 14, RSS composite, QR, RSS expanded, PDF 417 TrueType font support.	▸ 1D barcodes: Codabar, Code 128, Code 39, Code 93, AN 8, EAN 13, EAN 128, Interleaved 2 of 5, Pharmacode, Plessey, UPCA, UPCE. ▸ 2D barcodes: Aztec, Data Matrix, MaxiCode, Micro QR Code, PDF 417, QR Code, QR Code 2005 TrueType font support
Benefits	Easy Installation and Integration Their compact sizes and head positioning functions make printers the best solution for production lines with limited access to products as well as for any packaging and media sizes.	The patented and proven drop-on-demand process and unique design of series 4020 machines ensure perfect code labeling and easy integration with any production lines	Hot transfer ink ensures excellent quality of printing on corrugated boxes, pallets and packaging film.	Quick and high-resolution code printing High quality of texts, logos and high-resolution images 100% readability of 1D and 2D barcodes even at high printing speeds

LARGE BUBBLE JET LABELING SCOPES:
box and corrugated packaging labeling / plasterboard labeling
Exclusive solution for high-quality hot-melt ink labeling:
FAILSAFE READABILITY



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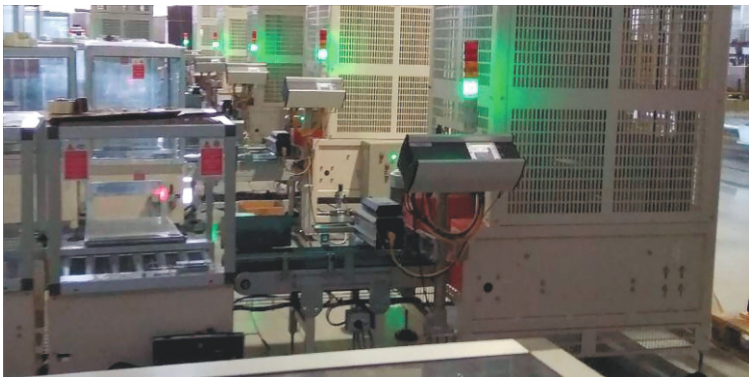
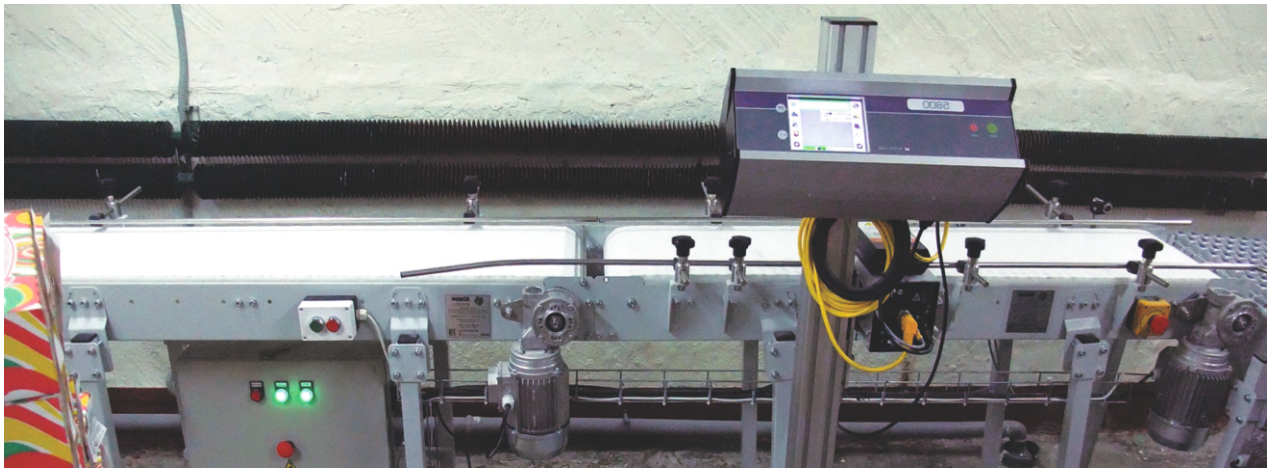
SUCCESSFULLY COMPLETED PROJECTS





Product Labeling

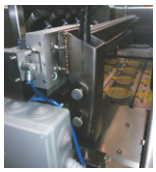
Bubble Jet Printers for Small Character Labeling

Specifications:

	9018/9029	9330	9410	9450	9040 Contrast 9042
					
Printing head (PH)	single-jet				single- or double-jet
PH types and resolutions	G - 71 dpi			G - 71 dpi M - 115 dpi	9040C - G 71 dpi / M 115 dpi 9042 - G 71 dpi
Printing Capabilities	9018 - max 3 lines 9029 - max 4 lines	max 4 lines	max 5 lines		max 4 lines per 1 PH
Printing Speed	9018 - max 3 m/sec 9029 - max 4.4 m/sec	max 4.4 m/sec	max 4.6 m/sec	max 6.6 m/sec	max 5.5 m/sec
Font Height	5 to 24 dots		5 to 32 dots		5 to 24 dots
Character Height	1.8 to 8.7 mm	1.8 to 8.6 mm	1.5 to 11 mm	1.2 to 11.2 mm	1.8 to 8.7 mm
Operating temperature	0°C to 40°C depending on ink in use	5°C to 40°C depending on ink in use	0°C to 40°C depending on ink in use		0°C to 50°C depending on ink in use
Humidity	10% to 90%, no condensation	0% to 90%, no condensation	10% to 90%, no condensation		
Power supply	100-120 V / 200-240 V @ 50/60 Hz Power: 34 W		100-120 V / 200-240 V @ 50/60 Hz Power: 60 W		100-120 V / 200-240 V @ 50/60 Hz Power: 9040C: 120 W, 9042: 160 W
Ingress protection class	9018 - IP 54 9029 - IP 55	IP 55		IP 56	IP 54 * improved IP 65 cases available on request
Ports	USB		USB and SD		USB, SD and Compact Flash
Interface	9018 - optional 9029 - RS-232	Ethernet / RS-232	RS-232/422		
Code Printing Capability	option		Wide range of 1D and 2D barcodes: EAN8/EAN13/UPCA/UPCE, code 39, Interleaved 2/5 (code 2 of 5), Datamatrix and QR		1D and 2D barcodes (Datamatrix)
Font Selection	Wide range of fonts (Latin, Cyrillic, Arabic, Japanese, Chinese, etc.)				
Extra-Flexible Hose	2 m long	3 m long			
Design	stainless steel cases		printing heads enclosures and cases of stainless steel		stainless steel cases
Weight	18.5 kg		25 kg		40 kg
Maintenance	9018 - ink module - 6000 hrs... 9029 – ink module - 8000 hrs...	ink module - 8000 hrs. (no extra maintenance required)	• ink and air filters replaced every 18 months • pressure pump replaced every 14000 hrs...		ink filter replaced every 12 months / 3600 hrs. / 2000 hrs. (depending on the ink type)
Benefits	high-quality labeling, easy use, and affordable price	low and moderate work load, unique flexibility for adapting to growing needs in printing	streamlined solution for high-quality labeling and code application	available models: 9450S for beverage industry 9450E for printing on pipes, cables, and profiles 9450C with pigment ink	wide range of scopes due to possibility of using two printing heads and either single- or dual-nozzle labeling systems

FINE BUBBLE JET LABELING:
flexible packaging, plastics, paper packaging, cardboard packaging for greasy products, polymers, glass, metal cans, etc.


Dairy industry





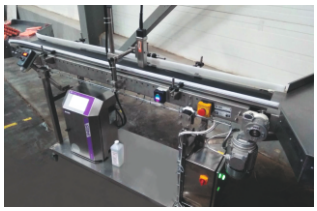
Printing head movement for labeling several product units per stroke.

Bottling

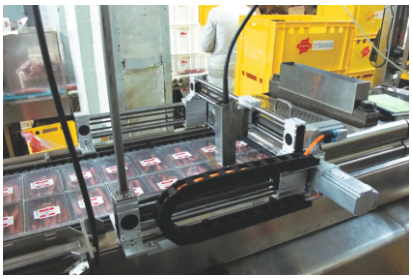
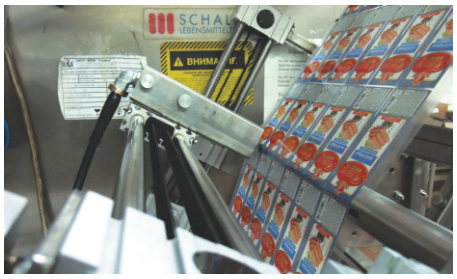





Meat and poultry processing





Printing head movement for labeling several product units per stroke.

Cable and pipe plants




Solutions for Other Industries





Neon ink labeling

Product Labeling

Thermal Transfer Printers

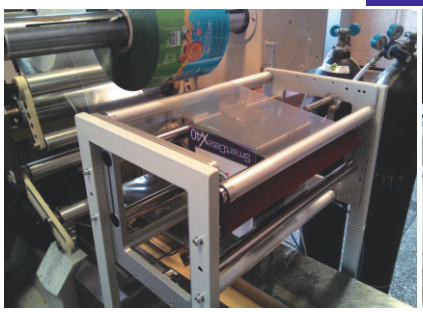
Specifications:	SmartDate X30	SmartDate X45	SmartDate X65	SmartDate X65/128
				
Printing Speed	• Start-stop operation: 100 to 600 mm/sec • Continuous operation: 50 to 600 mm/sec	• Start-stop operation: max 600 mm/sec • Continuous operation: 30 to 600 mm/sec	• Start-stop operation: max 700 mm/sec • Continuous operation: 10 to 1000 mm/sec (combined) • Continuous operation: 10 to 1800 mm/sec (reciprocating)	• Start-stop operation: max 700 mm/sec • Continuous operation: 10 to 700 mm/sec
Printable Area	• Start-stop operation: 32 mm x 40 mm • Continuous operation: 32 mm x 50 mm	• Start-stop operation: 32 mm or 53 mm x 75 mm • Continuous operation: 32 mm or 53 mm x 250 mm	• Start-stop operation: 53 mm x 75 mm • Continuous operation: 53 mm x 750 mm (combined / depending on the scope) • Continuous operation: 53 mm x 100 mm (reciprocating)	• Start-stop operation (max): 128 mm x 75 mm • Continuous operation (max): 128 mm x 150 mm
Printer Specifications	• Automatic printing head adjustment • Blind spot identification and image adjustment Mean printed image gap 0.5 mm • Automatic printing of shift numbers and serial numbers • Selectable adjustable margins for user alphanumeric data	• Automatic printing head adjustment • Blind spot identification • Quick-change printing heads • Continuous / start-stop printers • Easy LHS to RHS readjustment with no additional parts needed • Printout distance: 0.5 mm • Automatic printing of shift numbers and serial numbers • Multiple margin lines for user alphanumeric data • High pack rate mode • Air consumption: max 0.4 ml/cycle (min.) @ 2.5 bar	• Automatic printing head adjustment • Blind spot identification • Quick-change printing heads • Intermittent and continuous printing • Easy LHS to RHS readjustment with no additional parts needed • Printout distance: 0.5 mm • Automatic printing of shift numbers and serial numbers • Multiple margin lines for user alphanumeric data • High pack rate mode • Air consumption: max 0.4 ml/cycle (min.) @ 2.5 bar	• Automatic printing head adjustment • Blind spot identification • Quick-change printing heads • Combined start-stop and continuous printing • Easy LHS to RHS readjustment with no additional parts needed • Printout distance: 0.5 mm • Automatic printing of shift numbers and serial numbers • Multiple margin lines for user alphanumeric data • High pack rate mode • Air consumption:
Ribbon Saving Mode	• Radial ribbon saving mode • Interleave	Radial, staggered, radial 1, radial 2, radial staggered, space, radial space, incremental movement	Radial ribbon protection, wound, radial 1, radial 2, radial wound mode, space, radial space, and incremental movement	Radial, interlaced, radial 1, radial 2, radial interlaced, spaced, radial spaced, and incremental
Printing Capabilities	• Full support of True Type fonts including symbols and non-Roman characters • Printing time and dates in real-time, and automatically updating expiry dates, supporting HanXin, QR/GS1	• Full support of True Type fonts including symbols and non-Roman characters • Printing time and dates in real-time, and automatically updating expiry dates, barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, ID Matrix, QR and Composite RSS barcode	• Full support of True Type fonts including symbols and non-Roman characters • Printing time and dates in real-time, and automatically updating expiry dates, supported barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, 1D RSS, PDF 417, GS1 DataMatrix, QR and Composite RSS.	• Full support of TrueType fonts including Composite RSS, symbols and non-Roman characters • Printing time and dates in real-time, and automatically updating expiry dates, barcodes: ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, RSS linear, PDF 417, GS1

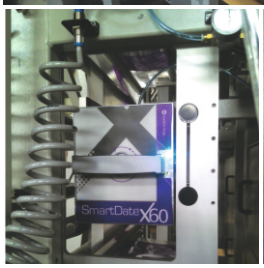
THERMAL TRANSFER PRINTER SCOPES:
printing on flexible packaging films, foils, and labels

For photos and videos of SUCCESSFULLY COMPLETED PROJECTS, please see

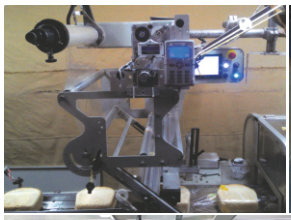
SOLUTIONS FOR VARIOUS INDUSTRIES

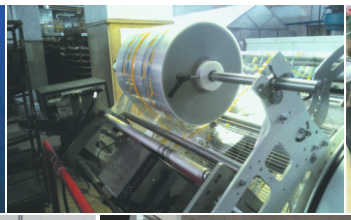
Confectionery Plants



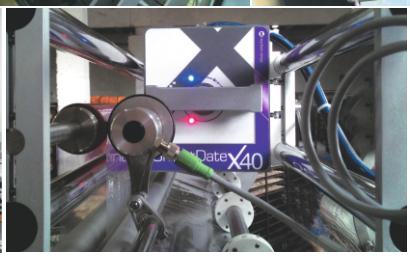



Baking plants

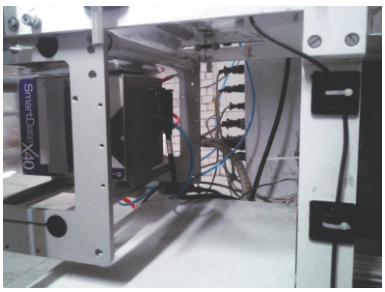


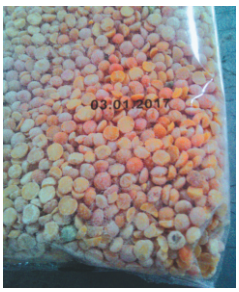



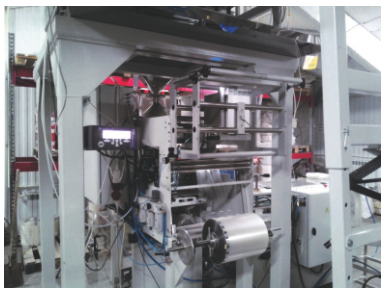




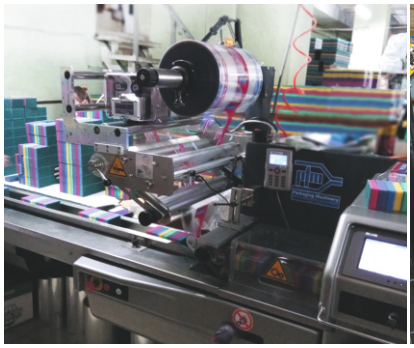
Packing








Labeling for Other Industries



Product Labeling

Laser Encoders

Specifications:	SmartLase C150	SmartLase C350	SmartLase F200
			
Laser tube power	10 W with CO2 tube	30 W with CO2 tube	mean: 20 W (pulse fiber laser)
Line performance (max speed)	125 m/min.*	250 m/min.*	max 120 m/min.*
Printing Speed (max)	900 chars/sec.	1800 chars/sec.	1800 chars/sec.
Printing Capabilities	•The quantity of lines depends on character height and printable area dimensions •Character height: 1 to 500 mm •Fonts: Chinese, Latin, Unicode •Wide range of languages: English, French, Spanish, German, Italian, Portuguese, Brazilian Portuguese, Chinese, Korean, etc.		•Character height: from 1 to the printable area •Logos, images, 1D and 2D barcodes •11 laser printer fonts and numerous TrueType fonts
Printable area and standard focal length (mm)	• Lens 100 x 100/ ES 140		100x100/ GO 162
Design	•Controller: stainless steel •Head: stainless steel and anodized aluminum		
Ingress protection class	• body — IP54 • laser head — IP55		Dust/Moisture Protection Ip44
Power supply	Power supply: 110 to 240 V, automatic changeover: 50 / 60 Hz Input power C150: 3 A; 350 VA Input power C350: 7 A; 700 VA		Power supply: 110 to 240 V, automatic changeover: 50 / 60 Hz Input power: 3 A; 350 VA
Weight	Body weight: 10.6 kg Head weight: 17.3 kg	Body weight: 10.2 kg Control panel weight: 2.1 kg Head weight: 18.5 kg	Head weight: 5 kg Controller weight: 21 kg
Models	SmartLase series labelers suit any industries, any production rates, any product dimensions and any materials to be labeled with wide ranges of lenses, printing heads, and laser sources.		
Benefits	SmartLase labelers outpace their current market peers by 30% in qualitative and quantitative terms: •Beverage production: performance increased from 1200 to 1800 pieces of products per minute •Food industry: maximum code size increased from 30 to 120 characters for ensuring merchandise traceability in the production chain and countering illegal trade. •Each laser head has a LED beam direction indicator		• Easy integration of printing heads due to their small sizes: 460 mm. • Wide range of multi-purpose lenses. • (work contents, speed, etc.). • Independent and interactive operation. • Laser source service life 100,000 hours. • Max operating temperature 43C (109F)*. • No air OR WATER supply required for cooling.
* Depending on message scope and complexity as well as on labeled surface			

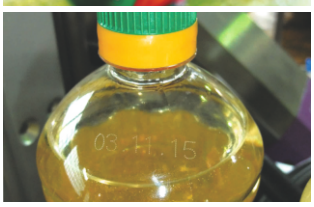
LASER LABELING SCOPES:
polyethylene, flexible packaging, labels, cardboard, glass, plastics, metal












Labeling Consumables

Full range of consumables and components for any printing technologies

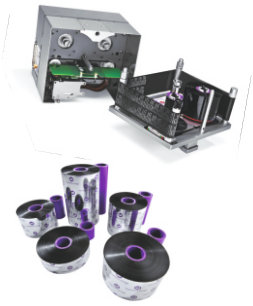
Ink and solvents for bubble jet printers

♦ Ink compatible with foodstuffs
♦ Thermochromic ink changing color depending on temperature changes
♦ Dilutable ink for returnables.
♦ Water- and alcohol-based ink for usage where environmental compliance is critical
♦ Smudge proof ink
♦ Pigmented ink for high-contrast labeling
♦ Fading-proof ink for curing rubber

Ink for large character printers

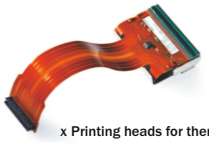
♦ Water-based ink for labeling cardboard boxes
♦ Propanol-based ink for labeling coated boxes
♦ Ethyl acetate ink for labeling non-porous surfaces
♦ Ethanol-based ink for labeling wood
♦ Brown food ink for labeling carcasses
♦ Black pigmented water-based ink for labeling concrete

Thermal transfer ribbons



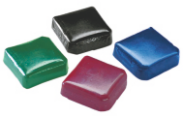
♦Ribbons for printers with angular or flat printing heads
♦FDA, LfgB and RoHS compliant ribbons
♦Solvent resistant ribbons
♦Wax-, polymer- and polymer paint-based ribbons for printing on various flexible materials
♦Ribbons for printing on labels in print and apply labeler system, water- and light-resistant ribbons
♦Wide range of ribbons of various widths and colors

Printing heads

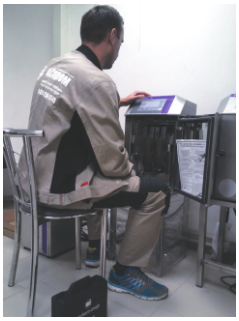


x Printing heads for thermal transfer printers, and print and apply labelers

Hot application ink



♦ Instant-dry ink hard at room temperatures
♦ Ink for labeling cardboard boxes with barcodes
♦ Special temperature ink for cold application



Equipment Service

We provide warranty and post-warranty service of equipment, supply spare parts, perform diagnostics and repairs. All operations take place at our service centers or by our professionals on site.

2 year warranty

TSC (Thermal- and Thermal Transfer) Label Printers

3,000 labels per day

TE310 Series

- ♦ Printing resolution 203/300 (dpi)
- ♦ Printing speed 152.4/127 (mm/sec)
- ♦ Printing width max 108/ 105.6 (mm)
- ♦ 16 MB SDRAM
  ♦ 8 MB flash drive
- ♦ Benefits: fit for printing DataMatrix codes

3,000 labels per day

TX200 Series

- ♦ Printing resolution 203/300/600 (dpi)
- ♦ Printing speed 203/152/102 (mm/sec)
- ♦ Printing width 108/106/106 (mm)
- ♦ 128 MB SDRAM
  ♦ 128 MB flash drive
- ♦ Benefits: 3.5 inch color TFT-display (standard for TX600, optional for 7X200 and 7X300)

12,000 labels per day

ML240P Series

- ♦ Printing resolution 203/300 (dpi)
- ♦ Printing speed 152/ 127 (mm/sec)
- ♦ Printing width 108/105.7 (mm)
- ♦ 64 MB SDRAM
  ♦ 128 MB flash drive
- ♦ Benefits: 2.3 inch color LCD-display, small dimensions, durable design

15,000 labels per day

MB240T Series

- ♦ Printing resolution 203/300 (dpi)
- ♦ Printing speed 254/178 (mm/sec)
- ♦ Printing width 108/105.7 (mm)
- ♦ 128 MB SDRAM
  ♦ 128 MB flash drive
- ♦ Benefits: 3.5 inch HVGA color LCD-display models available

740,000 labels per day

MH241T Series

- ♦ Printing resolution 203/300/600 (dpi)
- ♦ Printing speed 356/305/152 (mm/sec)
- ♦ Printing width 104 (mm)
- ♦256 MB SDRAM
  ♦512 MB flash drive
- ♦ Benefits: universal industrial printer for printing barcode labels

950,000 labels per day

MX241P Series

- ♦ Printing resolution 203/300/600 (dpi)
- ♦ Printing speed 457/356/152 (mm/sec)
- ♦ Printing width 104 (mm)
- ♦ 512 MB SDRAM
  ♦ 512 MB flash drive
- ♦ Benefits: industrial printer for full-time large-scale failsafe printing

For more models and all specifications, please refer to www.aspromservis.ru
The number of labels is calculated for 203 dpi resolutions and 58 x 40 mm label dimensions

PRODUCT LABELING

ASprom is an official integrator partner of the national merchandise labeling system "Chestny ZNAK". Our end-to-end production cycle, collaboration with major global manufacturers and extensive experience allow us to automate product labeling processes of our customers.

ASrom professionals:

- Develop customized labeling system;
- Apply commercially reasonable engineering solutions;
- Provide warranty and service support.

Product Labeling Stages

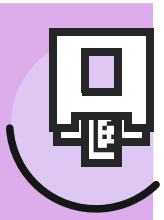
STAGE 1. OBTAINING LABELING CODES

Dedicated L3 software synchronizes with enterprise information systems and interacts with the national labeling system to obtain the codes according to the current task. Codes are transmitted further to level L2 for printing and subsequent application.

STAGE 2. APPLYING LABELING CODES

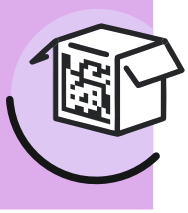
TAGGING

Labeling codes are printed on tags using desktop thermal transfer printers. Automatic applicators apply finished tags with codes.
Tags may apply to tops, sides or bottoms of products. Alternate operation of two applicators is configured for high-speed lines and continuous labeling When the first one is out of labels, the second one starts working. Conveyor lines have automatic label printing and application suites. Each suite includes an applicator and a thermal transfer printer..



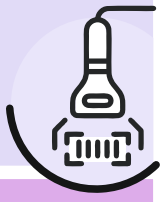
DIRECT APPLICATION

Labeling codes are applied to packaging in the packaging machine. DataMatrix codes are printed using thermal transfer printers.



STAGE 3. CORRECT CODE APPLICATION CHECK

Application quality of each DataMatrix code must be checked after application onto the surface of each labeled item. Barcode readers ensure the required check speed.



STAGE 4. REJECTION OF PRODUCTS WITH INCORRECT CODES

The rejection system in the conveyor line rejects illegible codes.

STAGE 5. PRODUCT MARKETING

The software for product marketing is integrated with the Chestny ZNAK system and business accounting systems.

The software may be integrated:

- via API with the Chestny ZNAK system;
- via API with 1C and other business accounting systems;
- via protocols with any models of scanners and printers with Ethernet IP/moodbus under profinet/profibus standards.

Batch Packaging Product Labeling

STAGE 1. OBTAINING LABELING CODES

L3 software synchronizes with enterprise information systems and interacts with the national labeling system. The enterprise receives the codes for its current task. DataMatrix codes are transmitted to level L2 for printing and further application.

STAGE 2. APPLYING LABELING CODES

Print and apply labelers use variable information to generate labels and attach them to group packaging and pallets.

STAGE 3. CORRECT CODE APPLICATION CHECK

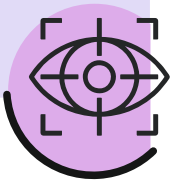
Application quality of each DataMatrix code is checked after application onto the surface of each labeled item.

STAGE 4. REJECTION OF PALLETS WITH INCORRECT CODES

Conveyor systems reject pallets with incorrect codes as designed for specific premises. Scanners and turning mechanisms ensure distribution of products.

STAGE 5. PRODUCT MARKETING

Product Marketing. The software transmits the pallet-level product shipment information into the Chestny ZNAK system via the API.



Barcode readers, video sensors and computer vision systems contribute to performance, product quality and cost improvements.

Computer vision is an ultimate function in lines performing recurrent product inspection operations. Computer vision devices work faster and continuously, while eliminating human errors. Sets of images and parameters are uploaded into camera software for comparing existing data with analyzed items.

Uses: food industry, metallurgy, household chemical production, motorcar and machinery production.

COMPUTER VISION

- reads 1D, 2D and alphanumerical codes and checks presence and quality of labeling;
- monitors packaging integrity;
- checks compliance of labels with products and inspects appearance of labels for absence of irregularities and tears;
- traces product filling level (beverages in bottles);
- checks presence or tightness of caps.

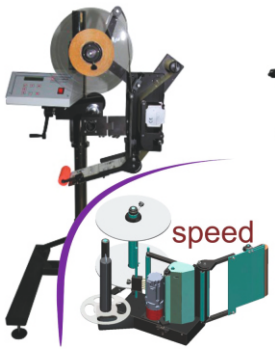
We design and implement our systems subject to specific features of your production facilities. We may provide additional training for engineers.

See the overview of "Chestny ZNAK" system product labeling solutions

Industrial Labeling Applicators

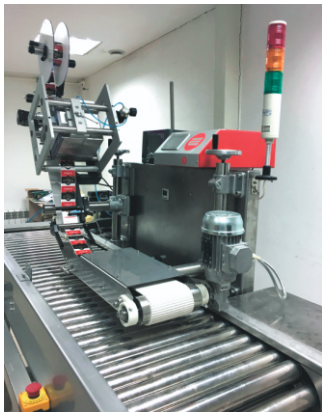
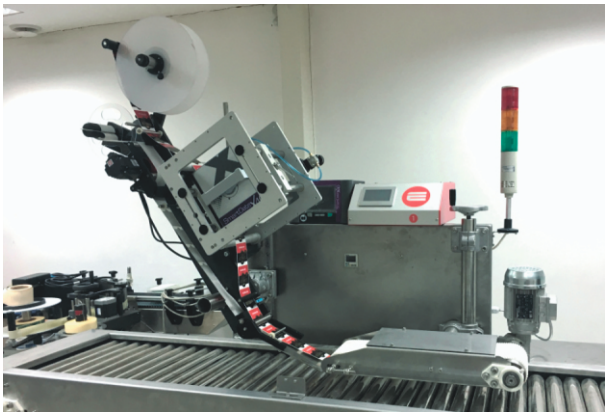
Automatic Labelers

Specifications:

	Trito 50/100	Trito 100 BRUSHLESS	Giove 140/190	Giove 230/260
				
Labeling speed	0 to 30 m/min	0 to 50 m/min	0 to 30 m/min	
Label width	10 to 50 mm / 10 to 100 mm		10 to 140 mm / 10 to 190 mm	10 to 230 mm / 10 to 260 mm
Label length	10 to 500 mm (other dimensions available on request)			
Central tube diameter	38 mm (78 mm including the adapter) to 300 mm			
Power supply	220 or 110 V, 50/60 Hz			
Weight	15 kg			
Benefits	Display CPU (Trito 100 Brushless color display) High-precision operation Adjustable label feed rate Label application counter Adjustable label pre-release Encoder support (all models)			

Tagging Systems

Circular tagging of sausages


Automatic adhesive reel circular labeling system for sausages for meat and meat processing enterprises


- Max performance 100 pcs/min.
- Material: stainless steel AISI 304
- Tagging assembly: automatic applicator
- Labeling assembly: thermal transfer or bubble jet printer
- Product counter
- Control and alarm cabinet

See ASPROMSERVIS.RU for video instruction

Meat Plants

Circular labeling of cylindrical products and top labeling of packaging

Tray labeling

Circular labeling of sausages

Top labeling of products in vacuum packaging

Dairy industry / Bottling

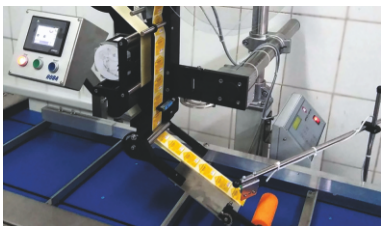
Labeling of batch packaging

Cheese labeling

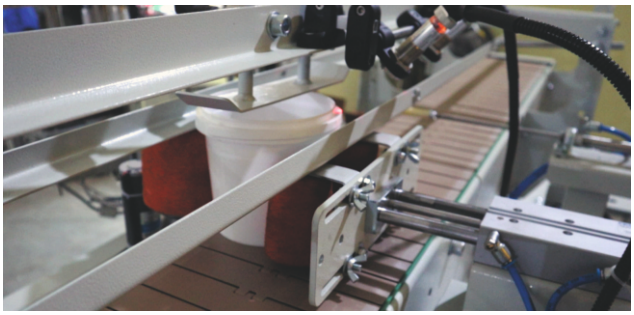
DataMatrix code application

Three-sided labeling

Baking plants / Ice-cream and frozen products



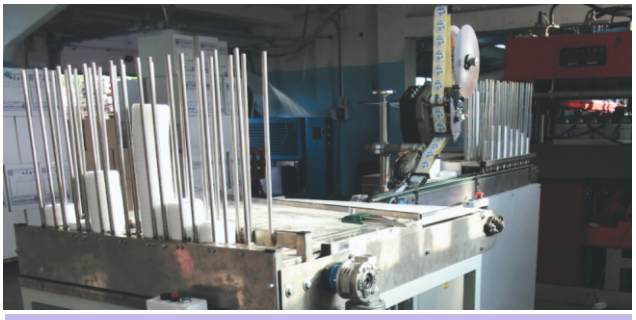
Other / Customized product labeling solutions



Labeling of conical buckets

Two-sided labeling

Product bottom labeling



Multi-flow tagging for plastic covers

(Corrugated Board) Box Molders and Sealers

Automatic Corrugated Board Molders

Specifications:	ALT-44	ALT-144	ALT-344
Performance	max 12 boxes/min	max 17 boxes/min	max 25 boxes/min
Overall Dimensions (L x W x H)	2150 x 1700 x 1350	2290 x 1710 x 1600	2290 x 1710 x 1600
Design	wheeled or stationary		
Control	control cabinet touch screen		
Supply voltage	380 V, 50 Hz	220 V, 50 Hz	380 V, 50 Hz
Compressed air	6-8 atmospheres, free of dust, oil and moisture Mean flow rate max 170 l/min. (max peak flow rate 300 l/min.)		
Corrugated board blank width, mm	350-740	350-820	360-820
Corrugated board blank height, mm	250-670	170-800	250-770
Length, mm	270-520	220-450	220-400
Width, mm	160-350	110-400	135-300
Height, mm	90-340	90-400	90-400
For:	• automated high-performance corrugated packaging lines; • automatic molding of four-flap corrugated boxes and sealing of bottom flaps with adhesive tape; • automatic supply of molded boxes downstream.		

Auto "TV Set" Corrugated Tray Molder ALT-5310

The molder is designed for molding "TV set" boxes with mechanical (tongue and groove) latching of all side walls with no glue Automatic molders ALT-5310 may be integrated with lines and equipped with product stackers

Performance	max 10 boxes/min
Overall Dimensions (L x W x H)	2000 x 1600 x 1800 mm
Design	wheeled or stationary
Control	microcontroller based molder control system for synchronizing individual parts of the machine
Supply voltage	380 V, 50 Hz
Compressed air	64 atmospheres, free of dust, oil and moisture Mean flow rate max 170 l/min. (max peak flow rate 300 l/min.)
Box dimensions (L x W x H, mm)	290 x 245 x 70

Corrugated Board Sealers

ALT-Z8 (semi-automatic)

• Simultaneous sealing of boxes from their tops and bottoms
• Manual adjustment to box format within 2 min.
• Operator must close top flaps before sealing

Specifications:
• belt speed: 20 m/min.
minimum power 0.26 kW
• voltage: 220/380 V
• dimensions (D x W x H, mm) 913x854x350
• feed and exit roller table: 0.4 m
• weight: 250 kg

Box dimensions:
length (min 120 mm/ max unlimited)
width (min 110 mm/ max 500 mm)
height (min 120 mm/ max 500 mm)

ALT-Z11 (automatic)

• Fully automatic operation with no operator interference
• Closing box flaps and sealing boxes from their tops and bottoms
• Perfectly fit for automated lines

Specifications:
• belt speed: 21 m/min.
• power 0.26 kW
• voltage: 220/380 V compressed air 6 atm.
• overall dimensions (L x W x H, mm)
1850x988x1370
• weight 300 kg

Box dimensions:
length (min 200 mm / max 550 mm)
width (min 150 mm / max 480 mm)
height (min 130 mm / max 480 mm)

Integrated Box Molder and Sealer ALT-Mono

Specifications:
• performance: 8 to 10 boxes/min.
• compressed air: 7 atm.
• voltage: 380 V
• working surface height 480-780 mm
• overall dimensions (D x W x H, mm):
1352x753x1510-1710
• tape overlap: 50/70 mm

Box dimensions (L x W x H, mm)
min: 200x160x120
max: 800x600x600

Adhesive tape dimensions, mm:
width: 60 (standard)
central tube diameter: 76
coil diameter: 410

- Closes bottom flaps of corrugated box blanks supplied by the operator
- Holds boxes vertically for filling
- Supplies boxes to the sealer.
- Seals the top and bottom of the box with adhesive tape

Optional equipment:
- adhesive tape end/tear alarm;
- adhesive tape end alarm;
- different coloring of the sealer.









Pallet Winders

Semiautomatic Pallet Winders

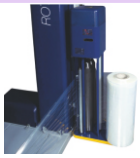
Robopac Ecoplat Base/FRD

Robopac Masterplat FRD/PGS

Robopac Rotoplat 508 PDS / 708 PVS

Specifications:

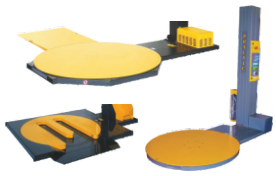
Turning Table Diameter	1500 mm / 1650 mm (option)	1650 mm / 1800 mm (option)	
Max packaged cargo weight (including the pallet)	1200 kg/ 2000 kg	2000 kg/2500 kg (option)	
Max packaged cargo height (including the pallet)	2200 mm / 2400 mm (option)	2200 mm / max 3100 mm (option)	
Carriage Type	FRD	FRD/PGS	PDS/PVS
Turning Table Rotation Speed	max 10 rpm	max 12 rpm	
Adjustable Tension	mechanical	mechanical/electromagnetic	electromagnetic
Pre-Stretch, %	no	no/fixed 250%	adjustable 0 to 250 / 150 to 400
Power supply	230 V		

Masterplat TP trans-pallet version is available with E-cut turning platform facilitating loading and unloading of pallets for hydraulic cart (dolly) operations.

Rotoplat TP trans-pallet version is available with E-cut turning platform facilitating loading and unloading of pallets for hydraulic cart (dolly) operations.

ALT-Start



ALT- Medium

ALT- Expert

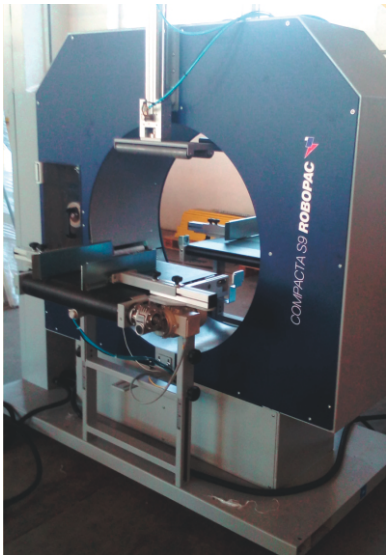
Specifications:

Turning Table Diameter	1500 mm	1650 mm (standard)
Max Pallet Weight	2200 mm (standard)	2350 mm (standard)
Max Carrying Capacity	1500 kg	2000 kg
Turning Table Rotation Speed		
Stretch Tape Tensioning	mechanical	motorized pre-stretching 200%
Operation	semi-automatic	
Adjustable Carriage Speed	no	inverter max 5.4 m/min
Consumables	Polyethylene stretch tape: width S 500 mm, outer diameter 280 mm, inner diameter 76 mm	
Voltage	380 V, 3 phases	220 V, 1 phase
Options	access ramp	- access ramp - top pneumatic clamp E-shaped turntable (1500 kg) - increased turntable diameter (1500/1800/220 mm) - increased pillar height (2400/260 mm) - ALT-Expert - weigher

Automatic pallet packer Robopac HELIX 3

Technical specifications	
Performance	65 pallets per hour
Arm rotation speed	max 28 rpm
Min pallet dimensions	600 x 800 mm
Max pallet dimensions	1200x1200 mm
Half- and quarter-pallet winding available	

Pallet packers for various industries



Industrial packing and palletizing robots

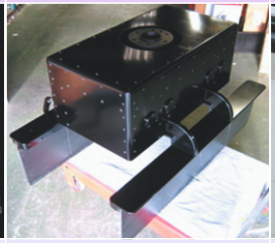
Industrial robots are dedicated machines with special software replacing manual labor and performing numerous functions at various production areas

Packing robot benefits:

1. Round-the-clock operation with no rotations or breaks, no downtimes requiring line shutdowns
2. Same high performance throughout cycles with no fluctuations
3. Precision positioning in packaging with position sensors to ensure perfect appearance of products
4. Operation of several lines to increase performance with no additional investments
5. Rapid reconfiguration for various product types to minimize equipment refitting duration
6. Ruling out human errors to prevent product returns due to incompliance of packaged product units or uneven product packaging
7. Hazardous cargo operations ruling out production risks.

OPERATING PRINCIPLE AND USE:

The robotic packer receives a signal from the automated conveyor system that products are available in the gripping area. Optical sensors of the gripping device check the data received and issue a command to place the specified quantity into packaging or onto a pallet. Gripping devices transfer the cargo with high precision.
We choose models depending on your needs, cargo capacity, mobility and working area requirements, and implement our robotic assemblies and conveyor systems for them.

	Vacuum grippers	Fork grippers	Clamp grippers	Magnetic grippers	
Gripping Mechanisms					
Description	Vacuum grippers are used only where the top of the product / packaging are available for gripping.	They are designed to remove products packages from conveyors	They are used to move polyethylene tape packaged products on pallets	They are used to grip parts/blanks made of ferrous metals.	
				Electromagnetic grippers	Permanent magnet grippers
Use	Moving numerous pallet types. Tightly sealed and corrugated boards.	Non-standard types of packaging, sacks, covered boxes, and corrugated cardboard packaging	Thin-wall packaging of different shapes	Parts and blanks	Parts and blanks

Grippers may be combined.
The two most often used grippers are vacuum clamps, and vacuum forks.

Automated operation

DS11 Depalletizer

Depalletizers for glass and tin bottles / cans placed onto wooden or plastic pallets in several layers with cardboard pads or overturned pallets between them.

Specifications:

Product	Square or round glass/tin cans
Performance	Max 12,000 cans per hour
Layer Separator	Direct or edge-down cardboard separators
Pallet format	800X1200 mm /1000X1200 mm
Design	Painted / stainless steel
Compressed air	6 bar (25 l/min)
Power	4 kW, 380 V
Benefits:	Modular configuration for flexible workshop equipment positioning depending on production needs

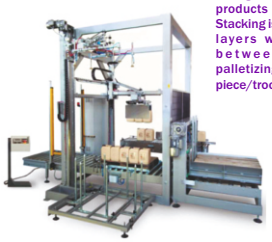
QUICKBOX Stacker

Auto product stacker (glass and tin cans, polyethylene) for corrugated boxes One of the highest-performance machines in the market.

Product	Glass/tin cans
Performance	Max 1200 cycles per hour
Gripping heads	Max 6 (individual grippers for various product types)
Design	Painted / stainless steel
Compressed air	6 bar (depending on the gripper)
Power	4 kW, 380 V
Benefits:	Modular configuration for streamlined workshop positioning. Synchronization with any corrugated molders or adhesive tape/hot glue flap sealing unit.

CARTESIO3 Depalletizer

Automatic pallet stacker for corrugated boxes, canisters and products in batch packaging Stacking is performed in several layers with pads or trays between them Product palletizing options (piece-by-piece/troops/layers).



Product	Corrugated box / canister / batch packaging
Performance	Max 450 cycles per hour
Finished pallet weight	Max 2.5 tons
Palletizing Unit Dimensions	2500 x 2500 mm
Design	Painted / stainless steel
Compressed air	6 bars (max 180 l/min)
Power	4 kW, 380 V
Benefits:	Modular configuration for streamlined workshop positioning. Automatic supply of pallets and automatic removal of finished pallets to the pallet winding area.

Compressor Equipment

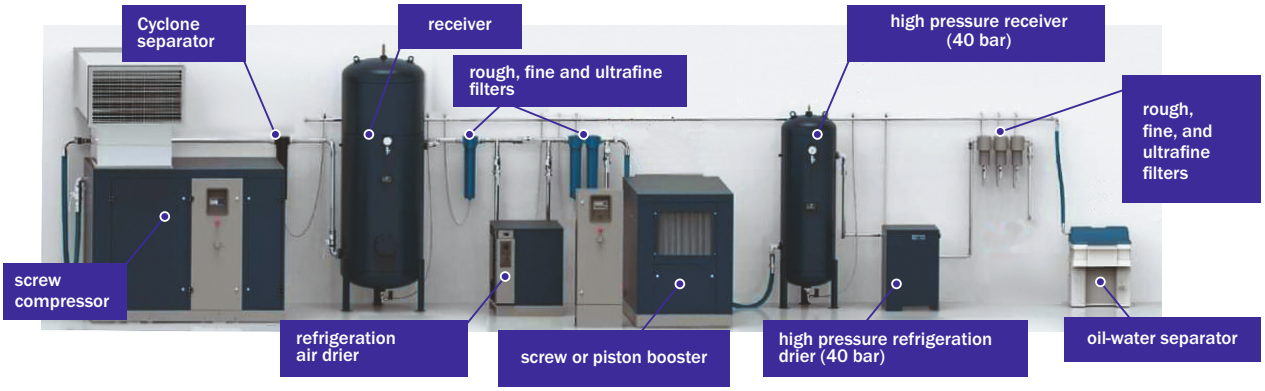
ASprom professionals design and commission compressor equipment and air treatment systems at industrial enterprises all over Russia.

Given various modern production needs, we offer a wide range of compressor equipment:

- Belt-driven screw compressors;
- Direct-drive screw compressors;
- Screw compressors with integrated compressed air treatment and drying systems;
- VFD screw compressors;
- VFD screw compressors with integrated air treatment systems;
- Oil-free screw compressors;
- Piston booster compressors;
- Screw booster compressors;
- Modular container compressor stations;
- Compressed air treatment and drying systems (receivers, trunk line filters, separators, absorption or refrigeration driers, oil and water filters)

We supply compressor stations for air supply to polyethylene packaging blowing units
Compressed air pressure 40 bar

LAYOUT OF THE COMPRESSOR STATION for pet-bottles



Our design bureau allows implementing customized projects. We select equipment depending on tasks and budgets. We perform all operations from pneumatic audit to service, warranty and post-warranty service. We repair compressor equipment at our own service center or on site.
Our engineers undergo regular training with compressor plant manufacturers and have extensive experience in implementing compressed air supply projects, which ensures reliable equipment operation.

SUCCESSFULLY COMPLETED PROJECTS

ASprom LLC Production Facility

Virtual Tour of
Our Production Facility

You may visit our plant and talk to our engineers to know our lay of the land

We are integrators and solve integrated problems from design to startup of equipment including commissioning, employee training, warranty and post-warranty service. We commission new turn-key lines and upgrade existing production areas while ensuring total compatibility of equipment.



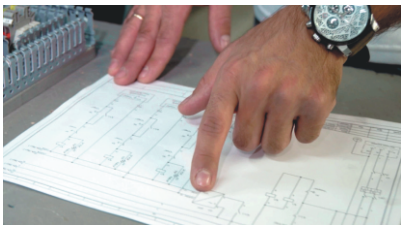

Integrated metalworking machine tools:

hydro abrasive and laser cutting, bending press, turning and milling machine tools, welding stations



Warehouse Inventories


Pool of Design and SCADA Engineers

For photos and videos of SUCCESSFULLY COMPLETED PROJECTS, please see

ASprom LLC References

DAIRY PLANTS

Labinsk Dairy Plant, Danone-Unimilk Group
Commissioning of the labeling system for plastic glass packaging, including automatic applicators and movement system

Belaya Dolina Group
Commissioning of integrated production equipment including labeling equipment (bubble jet and thermal transfer printers), tagging system (automatic applicators) for the curd production and packaging line, conveyor systems (pneumatic, modular, PVC tape), and compressor equipment

"Penzensky" Dairy plant, OJSC (Molkom, OJSC)
Commissioning of integrated labeling equipment (bubble jet, thermal transfer and laser printers), and compressor equipment

Molvest JSC, Volzhskie Prostory Trademark
Commissioning of integrated labeling equipment (thermal transfer printers)

EFKO OJSC, Sloboda Trademark
Elevator conveyor systems for transporting, separating and consolidating the product flows

KOMOS GROUP LLC, Sozvezdie Trademark
Commissioning of conveyor systems including modular belt turning conveyor and gravity roller table for moving batch packaged products into the -35°C area.

CONFECTIONERY PLANTS

Nevsky Konditer Group
Commissioning of integrated industrial equipment including labeling equipment (thermal transfer printers, print and apply labelers), packaging equipment (automatic corrugated box molders and sealers), two-tier conveyor systems, and compressor equipment

Kellogg's Rus LLC, Lyubyatovo Trademark
Design, supply and commissioning of the belt conveyor for the product labeling area

Penza Confectionery Plant CJSC, UNICONF Group
Commissioning of conveyor systems, thermal transfer and laser printer, and tagging system

Konti Confectionery Plant
Consolidating batch packaged product flows, tagging and labeling Supply of modular belt conveyors, applicator, and thermal transfer printer

MEAT PLANTS

ABI PRODUCT, Starodvorskiye kolbasy Trademark
Upgrade of a batch product packaging area, supply of 6 automatic corrugated box molders, and conveyor system for delivering molded corrugated boxes to the product stacking area

PRODO Group, Omsky Bacon Trademark
Commissioning of the circular labeling unit for sausages

Cherkizovo Group PJSC
Commissioning of the integrated industrial equipment including labeling equipment (thermal transfer printers), and packaging equipment (pallet winders)

Damate Group, Indilight Trademark
Installation of a bubble-jet printer for labeling products with variable information

Dzerzhinsk Meat Plant OJSC, DEMKA Trademark
Commissioning of the circular labeling system for sausages, installation of compressor equipment

Resource Agribusiness Group
Commissioning of the integrated industrial equipment including 2 circular labeling units for sausages, tagging equipment, and conveyor systems

Regionecoproduct-Povolzhye LLC, Familniye Kolbasy Trademark
Commissioning of the integrated industrial equipment including a circular labeling unit for sausages, tagging equipment (bubble jet and thermal transfer printers), and conveyor systems

TAVR Rostov Sausage Plant LLC
Startup of the circular labeling unit for sausages

Talina Group, Atyashevo Meat Processing Plant
Commissioning of the integrated industrial equipment including a circular labeling unit for sausages, tagging equipment (bubble jet and thermal transfer printers, print and apply labelers), conveyor systems, and compressor equipment

Miratorg
Supply of roller tables for moving pallets into the walk-in freezer, product labeling conveyor system, and compressor equipment

Tovarnoye Khozyaystvo
Conveyor systems, labeling, packaging and compressor equipment

MAJOR HOLDING COMPANIES & OTHER INDUSTRIES

Unilever Rus LLC
Design, supply and startup of integrated conveyor systems with 7 elevators for moving product flows into the automatic stacking area

Imperial Tobacco Volga LLC
Commissioning of the conveyor system based on chain conveyors and roller tables

Strauss LLC, Chernaya Karta Trademark
Supply of the conveyor system for combining coffee product flows

IDS Borjomi International, Edelweiss Trademark
Design, supply and startup of the overhead conveyor

Raduga-Bottlers LLC, Dikomp-Classic LLC
Commissioning of the integrated industrial equipment including labeling equipment (bubble jet printer), tagging system (automatic applicator), conveyor systems, packaging equipment (pallet winders), and compressor equipment

Henkel Rus LLC
Installation and commissioning of the applicator thermal transfer printers for full-scale printing of labels attached to corrugated boxes with products

Consolidated Penza Distilleries LLC
Design, supply and commissioning of the conveyor system for moving batch packaged products

MakProm LLC, SI Group, Shchebekinskie Trademark
Commissioning of integrated labeling equipment (thermal transfer printers)

TD Iceberry LLC
Supply and commissioning of tagging systems based on automatic applicators, high-resolution large-character printer, and conveyor systems

Rusagro
Conveyor systems for sunflower oil and margarine production lines

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